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Forest Statistics for East Texas Counties - 1986

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SUMMARY

The Southern Forest Survey, an activity of the Southern Forest Experiment Station Forest Inventory and Analysis work unit, covers the states of Alabama, Arkansas, Louisiana, Mississippi, Oklahoma, Tennessee, east Texas and the island of Puerto Rico.

This survey is part of the nationwide Forest Survey originally authorized by the McSweeney-McNary Act of 1928. More recent legislation pertinent to the survey mission includes the Forest and Rangeland Renewable Resources Planning Act of 1974 and the Forest and Rangeland Renewable Resources Research Act of 1978. The survey mission is to develop, analyze and maintain renewable forest resource information. This information is essential for formulation of forest policies and programs.

ACKNOWLEDGMENTS

The Southern Station gratefully acknowledges the cooperation and assistance provided by the Texas Forest Service and forest industries in collecting field data. Appreciation is also expressed for the cooperation of other public agencies and other private landowners in providing access to the sample locations.

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INTRODUCTION

These tables were derived from data obtained during a 1986 inventory of east Texas (fig. 1). The data on forest acreage and timber volume were secured by a systematic sampling method involving a forest-nonforest classification on aerial photographs and on-the-ground measurement of trees at sample locations. The sample locations were at the intersections of a grid of lines spaced 3 miles apart. At each forest location, per acre estimates were obtained from 10 Basal Area 37.5 point samples.

The sampling methods were developed to provide suitable estimates for east Texas. Estimates for smaller areas are presented, but sampling error increases as the area considered decreases. Sampling errors given in Table I are based on one standard deviation or a probability of two chances out of three. To estimate the sampling error for a combination of counties one can use the following:

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

where:

SE = standard error of estimate (expressed as a percent)
X = variable of interest (area or volume)
g = group of counties to be combined
t = total for the unit

Table I – *Sampling errors[1] for timberland, growing stock, and sawtimber, East Texas, 1986*

County	Timberland	Growing stock			Sawtimber volume
		Volume	Growth	Removals	
	Percent				
Anderson	1.8	11.3	17.3	16.7	12.9
Angelina	1.9	9.2	8.9	16.6	10.6
Bowie	2.0	11.9	18.3	16.7	13.6
Cass	1.8	8.4	9.6	12.2	10.8
Cherokee	2.2	10.2	8.8	16.2	12.1
Grimes	2.3	15.6	18.3	32.1	19.6
Hardin	1.6	9.1	12.9	8.6	11.0
Harris	1.6	12.7	28.9	26.4	13.9
Harrison	2.7	8.9	8.7	12.1	10.5
Henderson	2.7	13.1	26.6	36.6	15.8
Houston	1.7	10.5	8.9	11.0	12.2
Jasper	2.0	8.3	8.0	12.3	9.5
Jefferson[3]	0.9	19.0	31.7	47.2	20.4
Leon	3.6	13.2	22.8	34.6	15.7
Liberty	1.3	10.1	17.4	13.8	11.5
Madison	1.2	23.1	46.9	...	24.3
Marion	2.9	9.2	8.9	19.1	10.7
Montgomery	2.2	7.1	10.2	8.5	8.4
Morris	4.2	21.8	22.9	30.7	23.7

Table I – *Sampling errors*[1] *for timberland, growing stock, and sawtimber, East Texas, 1986 —Continued*

County	Timberland	Growing stock			Sawtimber volume
		Volume	Growth	Removals	
	Percent				
Nacogdoches	1.7	9.7	6.8	16.4	11.4
Newton	1.8	7.6	7.2	10.4	8.7
Orange	2.6	13.6	15.8	34.0	14.8
Panola	1.8	11.0	10.3	15.8	12.0
Polk	1.5	8.2	8.0	8.6	9.6
Red River	1.2	7.6	17.0	22.4	8.6
Rusk	2.7	12.7	12.7	17.0	15.1
Sabine	1.9	11.1	8.3	16.1	12.6
San Augustine	1.9	11.9	14.5	14.8	14.7
San Jacinto	1.9	10.3	12.8	13.9	11.7
Shelby	1.6	12.5	11.9	16.4	15.0
Smith	2.1	12.1	17.4	16.1	13.7
Titus[4]	2.6	18.8	21.1	27.1	22.8
Trinity	1.5	12.6	8.2	11.0	14.3
Tyler	0.9	9.1	7.2	10.8	10.2
Upshur[5]	2.6	12.7	12.4	18.6	14.7
Van Zandt	1.9	19.7	36.3	25.8	24.7
Walker	1.8	10.3	9.3	15.8	12.1
Waller	2.1	19.1	20.8	(2)	21.1
Wood	2.9	11.7	14.9	16.6	14.0
All counties	0.3	1.9	2.0	2.7	2.2

[1] By random-sampling formula.
[2] Sampling error greater than 50.
[3] Chambers included in Jefferson.
[4] Camp and Franklin included in Titus.
[5] Gregg included in Upshur.

Tables 1-25 were developed to provide compatability among Forest Inventory and Analysis Projects. Tables 26-35 are supplementary tables and may change from unit to unit or state to state to address specific resource issues.

DEFINITION OF TERMS

Average annual gross growth. — Average annual net growth plus average annual mortality.

Average net annual growth. — Average net annual volume increase for the intersurvey period.

Average annual mortality. — Average annual sound-wood volume of live trees dying from natural causes.

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

Forest type. — A classification of forest land based upon the species forming a plurality of live-tree stocking.

Growing-stock trees. — Live trees of commercial species. Rough and rotten trees are excluded.

Growing-stock volume. — The cubic-foot volume of sound wood in growing-stock trees at least 5.0 inches in diameter at breast height, from a 1-foot stump to a minimum 4.0-inch top diameter outside bark of the central stem, or to the point where the central stem breaks into limbs.

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

Poletimber trees. — Growing-stock trees of commercial species at least 5.0 inches in diameter at breast height, but smaller than sawtimber size.

Rotten trees. — Live trees of commercial species that do not contain at least one 12-foot saw log, now or prospectively, primarily because of rot.

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

Rough trees. — Live trees of commercial species that do not contain at least one 12-foot saw log, now or prospectively, primarily because of roughness or poor form. Also included are all live trees of noncommercial species.

Sawtimber trees. — Live trees that are of commercial species, contain at least a 12-foot saw log, and meet regional specifications for freedom from defect. Softwoods must be at least 9.0 inches in diameter at breast height and hardwoods at least 11.0 inches in diameter at breast height.

Sawtimber volume. — Sound-wood volume of the saw-log portion of live sawtimber trees in board feet, International 1/4-inch rule and in cubic feet.

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

Stand-size class. — A classification of forest land based on the size class of growing-stock trees on the sampled area; that is, sawtimber, poletimber, or sapling and seedling.

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.

Figure 1.--The Forest Survey regions of East Texas

Table 1 – *Area by county and land class, East Texas, 1986*

County	All land[1]	Forest land				Nonforest land
		Total	Timberland[2]	Woodland[3]	Reserved timberland	
	Thousand acres					
Anderson	690.9	321.6	321.6	...	...	369.3
Angelina	553.6	387.1	376.6	...	10.5	166.5
Bowie	590.5	259.9	259.9	...	...	330.7
Camp[4]	...	...	...	...	...	...
Cass	614.6	440.3	440.3	...	...	174.2
Chambers[5]	...	...	...	...	...	...
Cherokee	679.6	394.8	394.8	...	...	284.8
Franklin[4]	...	...	...	...	...	...
Gregg[6]	...	...	...	...	...	...
Grimes	512.2	168.6	168.6	...	...	343.6
Hardin	575.0	476.5	430.0	...	46.5	98.5
Harris	1137.3	197.6	190.3	7.3	...	939.8
Harrison	585.1	389.1	389.1	...	...	196.0
Henderson	607.2	193.9	162.6	31.3	...	413.3
Houston	791.6	422.8	419.7	...	3.1	368.8
Jasper	620.6	508.2	500.2	...	8.0	112.5
Jefferson[5]	1044.8	73.1	72.1	...	1.0	971.7
Leon	690.9	309.4	233.5	75.9	...	381.5
Liberty	753.3	462.9	461.6	...	1.3	290.4
Madison	302.5	79.0	79.0	...	...	223.5
Marion	269.8	200.4	200.4	...	...	69.4
Montgomery	688.7	444.9	441.2	...	3.7	243.9
Morris	166.5	65.5	65.5	...	...	101.0
Nacogdoches	627.2	412.8	412.8	...	...	214.5
Newton	601.1	549.2	549.2	...	...	51.9
Orange	242.8	125.2	124.5	...	0.7	117.7
Panola	526.6	317.2	317.2	...	...	209.4
Polk	708.5	556.3	539.8	...	16.5	152.1
Red River	675.5	279.0	279.0	...	...	396.6
Rusk	600.1	294.0	294.0	...	...	306.1
Sabine	369.6	264.1	253.4	...	10.7	105.5
San Augustine	378.4	288.3	283.0	...	5.3	90.1
San Jacinto	402.0	290.9	290.9	...	...	111.1
Shelby	534.2	349.4	349.4	...	...	184.7
Smith	607.9	256.2	256.2	...	...	351.7
Titus[4]	590.8	191.9	191.9	...	...	398.9
Trinity	456.6	347.2	347.2	...	...	109.4
Tyler	600.0	530.6	518.2	...	12.4	69.5
Upshur[6]	555.5	275.6	275.6	...	...	279.8
Van Zandt	550.0	105.3	105.3	...	...	444.7
Walker	512.9	305.6	305.6	...	...	207.2
Waller	332.4	82.1	82.1	...	...	250.3
Wood	445.4	183.1	183.1	...	...	262.3
All counties	22192.1	11799.5	11685.3	114.5	119.7	10392.6

[1] From U.S. Bureau of the Census.

[2] Forest land (formerly termed commercial forest land) that is producing or capable of producing at least 20 cubic feet of industrial wood per acre per year. Includes areas which may be inaccessible or inoperable by current standards. Excludes reserved timberlands.

[3] Forest land incapable of producing 20 cubic feet of industrial wood per acre per year under natural conditions because of adverse site condition.

[4] Camp and Franklin included in Titus.

[5] Chambers included in Jefferson.

[6] Gregg included in Upshur.

Table 2 – *Area of timberland by county and ownership class, East Texas, 1986*

County	All ownerships	National forest	Misc. federal	State	County and municipal	Forest industry[1]	Farmer	Corporate[2]	Individual[2]
	Thousand acres								
Anderson	321.6	...	...	...	...	73.4	62.1	28.2	158.0
Angelina	376.6	34.2	...	...	...	184.9	61.6	13.7	82.2
Bowie	259.9	...	47.2	5.9	...	35.4	41.3	11.8	118.1
Cass	440.3	...	18.9	...	...	94.4	44.0	12.6	270.5
Cherokee	394.8	...	...	6.1	6.1	127.5	36.4	...	218.7
Grimes	168.6	...	...	...	...	22.0	102.6	...	44.0
Hardin	430.0	...	...	...	...	324.0	5.9	35.3	64.8
Harris	190.3	...	...	...	...	14.6	...	58.5	117.1
Harrison	389.1	...	...	...	...	29.0	58.1	29.0	273.0
Henderson	162.6	...	...	...	...	...	93.8	...	68.8
Houston	419.7	87.7	...	...	...	68.9	43.8	12.5	206.7
Jasper	500.2	24.4	...	6.1	...	347.7	6.1	12.2	103.7
Jefferson[3]	72.1	...	...	...	...	...	26.2	6.6	39.3
Leon	233.5	...	...	...	...	...	122.6	...	110.9
Liberty	461.6	...	5.9	...	...	189.4	...	23.7	242.6
Madison	79.0	...	...	...	...	7.9	47.4	15.8	7.9
Marion	200.4	...	...	...	...	30.4	12.1	24.3	133.6
Montgomery	441.2	31.1	...	5.2	...	10.4	10.4	140.1	244.0
Morris	65.5	...	...	...	...	...	6.5	13.1	45.8
Nacogdoches	412.8	17.9	6.0	...	...	137.6	29.9	...	221.3
Newton	549.2	...	...	5.5	...	439.4	11.0	11.0	82.4
Orange	124.5	...	...	...	...	56.6	...	5.7	62.2
Panola	317.2	...	...	...	...	79.3	5.7	5.7	226.6
Polk	539.8	...	...	...	...	425.0	5.7	5.7	103.4
Red River	279.0	...	...	...	...	49.6	99.2	43.4	86.8
Rusk	294.0	...	...	...	...	22.6	45.2	22.6	203.5
Sabine	253.4	63.4	...	...	...	126.7	5.3	5.3	52.8
San Augustine	283.0	61.5	6.2	...	...	147.7	12.3	...	55.4
San Jacinto	290.9	65.3	...	...	5.9	89.1	17.8	23.7	89.1
Shelby	349.4	61.7	...	...	...	54.8	27.4	...	205.5
Smith	256.2	...	...	6.2	...	...	93.7	31.2	125.0
Titus[4]	191.9	...	...	...	...	...	22.1	7.4	162.4
Trinity	347.2	102.9	...	...	...	199.3	...	...	45.0
Tyler	518.2	...	...	...	...	393.1	6.0	23.8	95.3
Upshur[5]	275.6	...	...	...	...	12.8	83.3	19.2	160.3
Van Zandt	105.3	...	...	...	...	...	30.1	...	75.2
Walker	305.6	60.1	...	10.0	...	20.0	20.0	10.0	185.4
Waller	82.1	...	...	...	...	7.5	22.4	14.9	37.3
Wood	183.1	...	...	11.4	...	...	51.5	22.9	97.3
All counties	11565.3	610.3	84.2	56.5	12.0	3820.8	1369.8	690.1	4921.7

[1] Includes land leased to forest industry.

[2] Indian land will be classed as corporate or individual as defined by the Bureau of Indian Affairs.

[3] Chambers included in Jefferson.

[4] Camp and Franklin included in Titus.

[5] Gregg included in Upshur.

Table 3 – *Area of timberland by county and forest type group, East Texas, 1986*

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	321.6	...	...	...	62.1	67.7	95.9	73.4	22.6
Angelina	376.6	6.8	...	54.8	178.0	68.5	41.1	27.4	...
Bowie	259.9	...	...	5.9	35.4	65.0	82.7	59.1	11.8
Cass	440.3	6.3	...	18.9	56.6	119.5	176.1	62.9	...
Cherokee	394.8	...	...	24.3	85.0	121.5	151.8	12.1	...
Grimes	168.6	...	...	7.3	51.3	29.3	51.3	29.3	...
Hardin	430.0	29.5	5.9	58.9	82.5	100.1	111.9	41.2	...
Harris	190.3	...	...	7.3	58.5	36.6	65.9	22.0	...
Harrison	389.1	...	...	23.2	92.9	92.9	122.0	58.1	...
Henderson	162.6	...	...	...	12.5	18.8	118.8	12.5	...
Houston	419.7	6.3	...	31.3	144.1	81.4	94.0	62.6	...
Jasper	500.2	42.7	12.2	30.5	134.2	146.4	73.2	61.0	...
Jefferson[1]	72.1	...	...	...	19.7	6.6	13.1	32.8	...
Leon	233.5	...	...	...	11.7	5.8	169.3	40.9	5.8
Liberty	461.6	...	...	29.6	41.4	47.3	147.9	195.3	...
Madison	79.0	...	...	...	7.9	7.9	55.3	7.9	...
Marion	200.4	...	6.1	6.1	42.5	54.7	60.7	30.4	...
Montgomery	441.2	...	...	26.0	186.9	129.8	72.7	26.0	...
Morris	65.5	...	...	...	13.1	13.1	19.6	19.6	...
Nacogdoches	412.8	6.0	...	35.9	113.7	95.7	137.6	23.9	...
Newton	549.2	76.9	16.5	98.9	93.4	76.9	137.3	49.4	...
Orange	124.5	5.7	...	...	22.6	39.6	17.0	39.6	...
Panola	317.2	...	...	45.3	56.6	96.3	51.0	62.3	5.7
Polk	539.8	...	11.5	132.1	201.0	97.6	51.7	45.9	...
Red River	279.0	...	...	12.4	31.0	24.8	117.8	93.0	...
Rusk	294.0	...	...	...	90.5	67.8	135.7	...	...
Sabine	253.4	5.3	...	21.1	121.4	47.5	58.1	...	...
San Augustine	283.0	...	...	67.7	92.3	49.2	30.8	43.1	...
San Jacinto	290.9	...	...	23.7	106.9	71.2	77.2	11.9	...
Shelby	349.4	...	...	27.4	109.6	48.0	130.2	34.3	...
Smith	256.2	6.2	...	12.5	43.7	12.5	156.2	18.7	6.2
Titus[2]	191.9	...	...	...	22.1	14.8	110.7	44.3	...
Trinity	347.2	...	6.4	70.7	141.5	64.3	45.0	19.3	...
Tyler	518.2	11.9	17.9	65.5	95.3	172.7	113.2	41.7	...
Upshur[3]	275.6	...	...	12.8	64.1	76.9	64.1	51.3	6.4
Van Zandt	105.3	...	...	...	...	15.0	82.7	7.5	...
Walker	305.6	...	...	25.1	160.3	40.1	65.1	15.0	...
Waller	82.1	...	...	...	44.8	14.9	7.5	14.9	...
Wood	183.1	...	...	...	34.3	63.0	57.2	28.6	...
All counties	11565.3	203.5	76.4	975.2	2961.4	2401.8	3369.3	1519.1	58.5

[1] Chambers included in Jefferson.

[2] Camp and Franklin included in Titus.

[3] Gregg included in Upshur.

Table 4 - *Area of timberland by county and stand-size class, East Texas, 1986*

County	All classes	Stand-size class			Nonstocked[1] areas
		Sawtimber	Poletimber	Sapling-seedling	
	Thousand acres				
Anderson	321.6	197.5	73.4	33.9	16.9
Angelina	376.6	226.0	75.3	75.3	...
Bowie	259.9	94.5	94.5	59.1	11.8
Cass	440.3	201.3	100.6	125.8	12.6
Cherokee	394.8	182.2	109.3	103.3	...
Grimes	168.6	95.3	44.0	22.0	7.3
Hardin	430.0	153.2	70.7	164.9	41.2
Harris	190.3	102.4	29.3	43.9	14.6
Harrison	389.1	145.2	156.8	81.3	5.8
Henderson	162.6	56.3	50.0	31.3	25.0
Houston	419.7	256.8	75.2	81.4	6.3
Jasper	500.2	292.8	109.8	97.6	...
Jefferson[2]	72.1	59.0	...	6.6	6.6
Leon	233.5	75.9	110.9	29.2	17.5
Liberty	461.6	248.5	118.4	88.8	5.9
Madison	79.0	39.5	31.6	...	7.9
Marion	200.4	103.2	60.7	36.4	...
Montgomery	441.2	311.4	83.0	41.5	5.2
Morris	65.5	26.2	26.2	13.1	...
Nacogdoches	412.8	203.4	119.6	89.7	...
Newton	549.2	230.7	137.3	181.2	...
Orange	124.5	84.9	17.0	17.0	5.7
Panola	317.2	152.9	79.3	85.0	...
Polk	539.8	229.7	74.7	224.0	11.5
Red River	279.0	136.4	93.0	49.6	...
Rusk	294.0	135.7	67.8	75.4	15.1
Sabine	253.4	158.4	31.7	63.4	...
San Augustine	283.0	141.5	36.9	104.6	...
San Jacinto	290.9	166.2	47.5	77.2	...
Shelby	349.4	178.1	89.1	82.2	...
Smith	256.2	68.7	106.2	68.7	12.5
Titus[3]	191.9	73.8	73.8	44.3	...
Trinity	347.2	173.6	64.3	109.3	...
Tyler	518.2	244.2	95.3	166.8	11.9
Upshur[4]	275.6	109.0	76.9	89.7	...
Van Zandt	105.3	37.6	45.1	22.6	...
Walker	305.6	200.4	60.1	45.1	...
Waller	82.1	59.7	14.9	7.5	...
Wood	183.1	63.0	63.0	40.1	17.2
All counties	11565.3	5715.1	2813.3	2778.5	258.5

[1] Timberland less than 16.7 percent stocked.

[2] Chambers included in Jefferson.

[3] Camp and Franklin included in Titus.

[4] Gregg included in Upshur.

Table 5 – *Area of timberland by county and site class, East Texas, 1986*

County	All classes	Site class (cubic feet/acre/year) >165	120-165	85-120	50-85	<50
	Thousand acres					
Anderson	321.6	28.2	90.3	73.4	101.6	28.2
Angelina	376.6	27.4	102.7	184.9	61.6	...
Bowie	259.9	41.3	76.8	82.7	53.2	5.9
Cass	440.3	37.7	88.1	201.3	113.2	...
Cherokee	394.8	66.8	151.8	145.8	18.2	12.1
Grimes	168.6	...	14.7	51.3	87.9	14.7
Hardin	430.0	5.9	117.8	206.2	82.5	17.7
Harris	190.3	7.3	36.6	109.8	29.3	7.3
Harrison	389.1	11.6	98.7	156.8	116.2	5.8
Henderson	162.6	6.3	...	25.0	56.3	75.0
Houston	419.7	31.3	175.4	137.8	75.2	...
Jasper	500.2	73.2	146.4	183.0	97.6	...
Jefferson[1]	72.1	6.6	6.6	45.9	13.1	...
Leon	233.5	11.7	5.8	29.2	75.9	110.9
Liberty	461.6	29.6	100.6	112.4	183.4	35.5
Madison	79.0	15.8	15.8	15.8	23.7	7.9
Marion	200.4	12.1	115.4	54.7	18.2	...
Montgomery	441.2	36.3	114.2	155.7	124.6	10.4
Morris	65.5	6.5	13.1	26.2	13.1	6.5
Nacogdoches	412.8	65.8	155.5	149.6	41.9	...
Newton	549.2	98.9	186.7	203.2	54.9	5.5
Orange	124.5	11.3	56.6	45.3	11.3	...
Panola	317.2	68.0	62.3	118.9	68.0	...
Polk	539.8	...	109.1	298.6	132.1	...
Red River	279.0	6.2	43.4	68.2	130.2	31.0
Rusk	294.0	60.3	98.0	60.3	67.8	7.5
Sabine	253.4	73.9	110.9	52.8	15.8	...
San Augustine	283.0	55.4	86.1	129.2	12.3	...
San Jacinto	290.9	11.9	83.1	142.5	47.5	5.9
Shelby	349.4	48.0	143.9	123.3	34.3	...
Smith	256.2	12.5	18.7	118.7	81.2	25.0
Titus[2]	191.9	36.9	36.9	51.7	66.4	...
Trinity	347.2	25.7	102.9	147.9	64.3	6.4
Tyler	518.2	47.6	226.3	202.5	41.7	...
Upshur[3]	275.6	44.9	96.2	121.8	12.8	...
Van Zandt	105.3	...	...	15.0	52.7	37.6
Walker	305.6	5.0	55.1	145.3	85.2	15.0
Waller	82.1	14.9	22.4	22.4	22.4	...
Wood	183.1	11.4	22.9	85.9	63.0	...
All counties	11565.3	1154.3	3187.8	4300.7	2450.4	472.0

[1] Chambers included in Jefferson.

[2] Camp and Franklin included in Titus.

[3] Gregg included in Upshur.

Table 6 – *Area of timberland by county and stocking classes of growing-stock trees, East Texas, 1986*

County	All classes	Stocking class (percent)				
		>130	100-130	60-100	16.7-60	<16.7
	Thousand acres					
Anderson	321.6	5.6	16.9	95.9	186.2	16.9
Angelina	376.6	20.5	137.0	157.5	61.6	...
Bowie	259.9	5.9	35.4	106.3	100.4	11.8
Cass	440.3	6.3	100.6	251.6	69.2	12.6
Cherokee	394.8	6.1	48.6	261.2	79.0	...
Grimes	168.6	...	7.3	14.7	139.2	7.3
Hardin	430.0	23.6	35.3	235.6	94.2	41.2
Harris	190.3	...	14.6	109.8	51.2	14.6
Harrison	389.1	5.8	87.1	238.1	52.3	5.8
Henderson	162.6	...	6.3	31.3	100.1	25.0
Houston	419.7	12.5	87.7	194.2	119.0	6.3
Jasper	500.2	12.2	79.3	268.4	140.3	...
Jefferson[1]	72.1	13.1	...	26.2	26.2	6.6
Leon	233.5	...	...	81.7	134.3	17.5
Liberty	461.6	...	23.7	224.9	207.1	5.9
Madison	79.0	...	...	23.7	47.4	7.9
Marion	200.4	6.1	30.4	121.5	42.5	...
Montgomery	441.2	...	77.9	275.1	83.0	5.2
Morris	65.5	...	19.6	39.3	6.5	...
Nacogdoches	412.8	17.9	89.7	215.4	89.7	...
Newton	549.2	16.5	98.9	263.6	170.3	...
Orange	124.5	...	...	73.5	45.3	5.7
Panola	317.2	...	73.6	192.6	51.0	...
Polk	539.8	17.2	178.0	235.4	97.6	11.5
Red River	279.0	6.2	24.8	117.8	130.2	...
Rusk	294.0	...	30.2	165.8	82.9	15.1
Sabine	253.4	26.4	79.2	132.0	15.8	...
San Augustine	283.0	18.5	110.7	116.9	36.9	...
San Jacinto	290.9	5.9	59.4	148.4	77.2	...
Shelby	349.4	20.6	75.4	157.6	95.9	...
Smith	256.2	6.2	18.7	93.7	125.0	12.5
Titus[2]	191.9	...	22.1	73.8	96.0	...
Trinity	347.2	6.4	90.0	205.7	45.0	...
Tyler	518.2	11.9	59.6	303.7	131.0	11.9
Upshur[3]	275.6	6.4	38.5	179.5	51.3	...
Van Zandt	105.3	...	...	45.1	60.2	...
Walker	305.6	15.0	65.1	145.3	80.2	...
Waller	82.1	...	7.5	52.2	22.4	...
Wood	183.1	...	22.9	74.4	68.7	17.2
All counties	11565.3	293.0	1952.1	5749.5	3312.3	258.5

[1] Chambers included in Jefferson.

[2] Camp and Franklin included in Titus.

[3] Gregg included in Upshur.

Table 7 – *Area of timberland by forest type and ownership class, East Texas, 1986*

Forest type[1]	All ownerships	National forest	Other public	Forest industry	Forest industry-leased	Other private
	Thousand acres					
Longleaf-slash pine	279.9	11.4	...	220.7	...	47.9
Loblolly-shortleaf pine	3936.6	433.7	44.4	1463.5	...	1995.1
Softwood total	4216.6	445.1	44.4	1684.2	...	2043.0
Oak-pine	2401.8	65.2	30.5	872.7	...	1433.3
Oak-hickory	3369.3	76.3	47.6	798.5	19.3	2427.6
Oak-gum-cypress	1519.1	23.7	24.3	440.1	5.9	1025.1
Elm-ash-cottonwood	58.5	...	5.9	...	...	52.6
Hardwood total	7348.8	165.2	108.3	2111.4	25.2	4938.7
All types	11565.3	610.3	152.7	3795.5	25.2	6981.6

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

Table 8 – *Area of timberland by ownership and stocking classes of growing-stock trees, East Texas, 1986*

Ownership class	All classes	Stocking class (percent)				
		>130	100-130	60-100	16.7-60	<16.7
	Thousand acres					
National forest	610.3	42.3	216.9	305.6	45.4	...
Other public	152.7	...	41.1	70.6	35.3	5.7
Forest industry	3795.5	153.7	697.4	1941.5	932.0	70.9
Forest industry-leased	25.2	...	...	11.4	13.8	...
Other private	6981.6	96.9	996.7	3420.4	2285.8	181.8
All ownerships	11565.3	293.0	1952.1	5749.5	3312.3	258.5

Table 9 – *Area of timberland by forest type and stand-size class, East Texas, 1986*

Forest type[1]	All classes	Stand-size class			Nonstocked[2] areas
		Sawtimber	Poletimber	Sapling-seedling	
	Thousand acres				
Longleaf-slash pine	279.9	96.0	127.2	56.7	...
Loblolly-shortleaf pine	3936.6	2441.9	676.2	812.5	6.0
Softwood total	4216.6	2537.9	803.5	869.2	6.0
Oak-pine	2401.8	1226.8	462.1	695.5	17.3
Oak-hickory	3369.3	1030.1	1113.2	1052.8	173.1
Oak-gum-cypress	1519.1	879.2	428.8	155.3	55.9
Elm-ash-cottonwood	58.5	41.0	5.6	5.7	6.2
Hardwood total	7348.8	3177.1	2009.8	1909.3	252.5
All types	11565.3	5715.1	2813.3	2778.5	258.5

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

[2] Timberland less than 16.7 percent stocked.

Table 10 – *Number of live trees on timberland by species and diameter class, East Texas, 1986*

Species	All classes	1.0-2.9	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 & larger
	Diameter class (inches at breast height)												
	Thousand trees												
Longleaf-slash pines	129763	55649	31719	17813	13098	5618	3197	1673	727	140	83	46	...
Shortleaf-loblolly pine	1753103	808853	382242	210731	124849	76949	58466	39257	24629	13214	7059	6509	345
Cypress	10197	2130	1133	2347	1950	710	609	419	354	200	120	217	8
Other softwoods	41329	25221	9375	2893	2043	898	344	318	116	71	25	26	...
Total softwoods	1934392	891853	424470	233784	141939	84175	62616	41667	25826	13625	7286	6798	353
Select white oaks	103024	56422	19216	9008	6602	3732	2292	1850	1589	890	586	774	64
Select red oaks	82871	56914	8743	5994	3129	2598	1508	1380	617	592	492	721	184
Other white oaks	371422	188676	63691	45757	27339	18453	11075	6232	4491	2380	1551	1582	194
Other red oaks	592310	346312	91931	46031	35076	24944	16437	11292	7883	4729	2851	4153	671
Hickory	184964	117444	29566	13694	8876	7149	3802	2332	1037	554	281	208	18
Hard maple	7114	4881	1256	352	188	171	181	23	28	27	...	7	...
Soft maple	137221	92311	26199	10195	5002	1852	780	450	148	166	31	87	...
Beech	6058	2020	1030	274	358	507	444	478	360	227	117	223	19
Sweetgum	925876	597196	152506	77795	40514	23904	11506	6163	2780	1505	1053	869	85
Tupelo-blackgum	248693	173228	37831	16115	8812	4149	3137	2270	1485	717	343	529	77
Ash	160386	121986	17165	8032	4381	3088	2348	1545	830	582	200	205	25
Cottonwood-aspen	2057	543	543	...	114	242	223	84	96	118	51	17	26
Basswood	5139	2690	2183	...	...	108	...	69	28	36	20	6	...
Black walnut	2434	1698	...	88	242	223	121	40	...	...	10	9	3
Other hardwoods	1100507	801908	188739	54538	26116	12864	7218	4170	2394	1177	570	751	64
Total hardwoods	3930077	2564228	650599	287874	166748	103986	61071	38376	23765	13701	8156	10142	1430
Noncommercial	658800	484456	117775	35896	11330	4601	2471	1112	636	397	50	76	...
All species	6523269	3940537	1192844	557553	320018	192762	126158	81155	50227	27723	15493	17016	1783

Table 11 – *Number of growing-stock trees on timberland by species and diameter class, East Texas, 1986*

Species	All classes	1.0-2.9	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 & larger
	Diameter class (inches at breast height)												
	Thousand trees												
Longleaf-slash pines	114530	48131	26396	16391	12724	5090	3168	1650	727	127	83	46	...
Shortleaf-loblolly pine	1382716	553752	294553	193924	119096	74403	57472	38759	24404	12971	6906	6197	279
Cypress	6766	532	...	2215	1642	630	582	379	322	164	120	170	8
Other softwoods	33199	20227	8126	2278	1358	622	221	223	97	26	12	9	...
Total softwoods	1537210	622642	329074	214808	134819	80745	61444	41010	25549	13288	7121	6422	288
Select white oaks	58862	24192	11550	7172	5927	3448	2059	1578	1247	711	488	447	42
Select red oaks	43501	24875	4874	4742	2532	2229	1212	1148	454	471	346	504	113
Other white oaks	143702	38549	27626	27995	19487	13298	7179	4011	2742	1386	771	636	21
Other red oaks	272765	109116	48715	34507	27930	20096	11448	8352	5498	3149	1765	1994	194
Hickory	66010	26334	17189	7138	5173	5055	2401	1573	609	244	140	146	6
Hard maple	2573	2183	...	263	...	82	31	...	14	...	...	...	...
Soft maple	36138	16709	9269	5831	2864	943	303	150	34	27	...	8	...
Beech	2573	1033	...	122	214	237	271	298	206	112	48	32	...
Sweetgum	479254	261478	87108	57784	34230	20038	9450	4944	1930	1035	753	453	50
Tupelo-blackgum	70715	30868	15108	8913	6925	3286	2135	1556	1037	456	207	226	...
Ash	51976	29263	8928	4718	3481	2099	1486	1086	451	329	65	61	9
Cottonwood-aspen	1487	543	...	...	114	242	223	84	96	118	51	12	4
Basswood	1114	...	1092	...	...	...	...	22	...	...	...	...	...
Black walnut	285	...	...	...	59	105	121	...	...	...	...	...	...
Other hardwoods	266651	142104	62808	29102	15799	8021	3882	2481	1326	585	202	329	12
Total hardwoods	*1497608*	*707246*	*294268*	*188288*	*124736*	*79180*	*42202*	*27283*	*15645*	*8623*	*4836*	*4850*	*452*
All species	3034818	1329888	623341	403096	259555	159926	103646	68293	41194	21911	11957	11272	739

Table 12 – *Volume of growing stock on timberland by species and diameter class, East Texas, 1986*

Species	Diameter class (inches at breast height)										
	All classes	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 & larger
	Million cubic feet										
Longleaf-slash pines	347.5	45.8	81.2	66.7	65.7	46.2	27.0	6.8	4.8	3.2	...
Shortleaf-loblolly pine	7452.2	478.7	765.3	989.7	1208.2	1183.1	1016.7	686.5	470.4	603.2	50.4
Cypress	95.1	4.3	14.9	9.0	9.7	10.9	12.5	8.1	7.6	16.6	1.5
Other softwoods	25.8	4.4	6.2	5.0	2.9	3.4	2.4	0.9	0.3	0.3	...
Total softwoods	7920.7	533.2	867.5	1070.5	1286.5	1243.6	1058.7	702.3	483.1	623.3	51.9
Select white oaks	290.0	19.7	33.2	35.6	35.1	36.3	40.1	29.5	24.4	30.8	5.4
Select red oaks	205.7	12.8	13.6	21.8	20.6	27.5	13.9	19.0	18.1	41.4	17.1
Other white oaks	587.4	58.8	92.0	107.6	91.0	70.8	65.0	40.2	28.3	31.8	1.8
Other red oaks	1338.3	88.2	152.8	201.4	180.2	187.9	162.3	125.6	85.2	132.5	22.3
Hickory	187.7	14.5	23.4	41.9	31.5	30.4	16.6	9.7	7.0	11.8	0.8
Hard maple	3.0	0.9	...	0.9	0.7	...	0.5	...	...	...	...
Soft maple	51.5	16.4	15.6	9.1	4.6	3.4	0.9	1.2	...	0.3	...
Beech	31.1	0.3	1.0	2.7	3.6	7.3	6.2	5.1	2.9	2.0	...
Sweetgum	1014.8	128.0	192.7	210.7	161.9	124.5	66.2	45.6	42.2	35.4	7.7
Tupelo-blackgum	234.7	21.3	35.2	33.4	34.4	35.8	30.2	18.5	10.2	15.5	...
Ash	128.9	10.6	19.4	21.7	23.0	23.2	12.6	11.8	2.8	2.9	0.7
Cottonwood-aspen	33.8	...	1.4	4.2	7.8	3.3	4.7	7.0	3.5	1.2	0.7
Basswood	0.3	...	...	...	...	0.3	...	...	...	...	...
Black walnut	2.5	...	0.4	0.7	1.4	...	...	...	...	...	...
Other hardwoods	416.3	65.0	81.4	69.7	57.6	49.6	37.3	19.8	9.3	24.4	2.2
Total hardwoods	4526.0	436.5	662.1	761.5	653.4	600.2	456.5	333.0	234.0	330.0	58.8
All species	12446.7	969.7	1529.6	1832.0	1939.9	1843.8	1515.2	1035.3	717.1	953.4	110.7

Table 13 – *Volume of growing stock in the saw-log portion of sawtimber[1] trees on timberland by species and diameter class, East Texas, 1986*

Species	All classes	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 & larger
	Diameter class (inches at breast height)								
	Million cubic feet								
Longleaf-slash pines	196.4	53.8	59.4	43.2	25.7	6.5	4.6	3.2	...
Shortleaf-loblolly pine	5742.7	809.2	1100.5	1115.5	972.9	661.2	452.9	581.7	48.7
Cypress	68.4	6.4	7.8	9.8	11.7	7.8	7.5	15.9	1.5
Other softwoods	12.8	3.8	2.5	3.0	2.1	0.9	0.3	0.3	...
Total softwoods	6020.3	873.2	1170.3	1171.5	1012.4	676.4	465.2	601.1	50.3
Select white oaks	175.9	...	28.3	31.2	34.9	26.8	22.0	27.3	5.4
Select red oaks	137.7	...	14.4	23.7	12.5	17.1	16.4	37.7	15.9
Other white oaks	291.4	...	76.6	64.2	58.1	36.3	26.0	28.4	1.7
Other red oaks	774.4	...	137.4	162.0	143.6	110.9	76.9	123.0	20.5
Hickory	94.5	...	26.3	26.2	15.1	8.8	6.4	10.9	0.8
Hard maple	1.0	...	0.6	...	0.4	...	...	...	...
Soft maple	8.2	...	3.7	2.4	0.8	1.0	...	0.3	...
Beech	24.8	...	2.9	6.6	5.9	4.9	2.6	1.8	...
Sweetgum	401.9	...	113.3	105.9	61.3	42.1	38.9	33.2	7.3
Tupelo-blackgum	125.0	...	25.6	30.6	27.3	17.0	9.9	14.6	...
Ash	63.3	...	17.2	19.3	10.9	10.2	2.4	2.7	0.6
Cottonwood-aspen	27.0	...	7.4	3.1	4.5	6.8	3.4	1.2	0.7
Basswood	0.3	...	...	0.3	...	...	...	...	...
Black walnut	1.2	...	1.2	...	...	...	...	...	...
Other hardwoods	170.9	...	45.7	42.9	31.4	17.1	8.8	22.9	2.1
Total hardwoods	2297.3	...	500.8	518.3	406.6	298.9	213.8	303.9	55.0
All species	8317.6	873.2	1671.1	1689.8	1418.9	975.3	679.0	905.0	105.3

[1] That part of the bole of sawtimber trees between the 1-foot stump and the saw-log top, including the portion of the forks large enough to contain a saw log.

Table 14 – *Volume of sawtimber on timberland by species and diameter class, East Texas, 1986*

Species	All classes	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 & larger
	Diameter class (inches at breast height)								
	Million board feet								
Longleaf-slash pines	1152.2	294.5	355.3	260.0	153.0	41.6	27.8	19.9	...
Shortleaf-loblolly pine	35127.8	4501.0	6596.7	6858.2	6072.5	4137.1	2887.5	3746.2	328.5
Cypress	376.3	23.8	38.6	55.3	66.2	45.6	41.1	95.6	10.2
Other softwoods	65.0	18.5	12.2	15.4	12.3	4.7	1.0	1.1	...
Total softwoods	36721.3	4837.7	7002.8	7188.9	6304.0	4229.0	2957.4	3862.8	338.7
Select white oaks	1093.6	...	162.8	182.3	217.7	178.2	141.2	177.3	34.0
Select red oaks	845.2	...	76.5	134.7	73.2	105.1	102.6	248.7	104.4
Other white oaks	1733.5	...	418.4	371.6	347.4	225.2	169.4	189.7	11.8
Other red oaks	4669.0	...	749.5	929.9	866.4	691.6	490.0	801.4	140.0
Hickory	573.3	...	148.1	154.9	94.7	56.1	41.5	72.1	75.9
Hard maple	6.5	...	3.7	...	2.8	...	...	...	...
Soft maple	47.4	...	20.3	14.5	4.3	6.2	...	2.2	...
Beech	153.0	...	16.5	39.3	35.7	32.2	17.8	11.5	...
Sweetgum	2354.0	...	617.8	613.3	363.2	258.5	241.8	211.9	47.4
Tupelo-blackgum	716.4	...	135.0	171.3	157.4	100.8	58.8	93.2	...
Ash	361.9	...	93.1	109.2	63.5	59.4	15.5	17.3	3.9
Cottonwood-aspen	181.8	...	56.7	21.2	29.7	43.0	19.9	7.1	4.1
Basswood	1.4	...	...	1.4	...	...	...	...	...
Black walnut	6.5	...	6.5	...	...	...	...	...	...
Other hardwoods	1029.1	...	257.5	252.2	192.9	108.8	55.1	147.0	15.6
Total hardwoods	13772.6	...	2762.3	2995.8	2449.1	1865.1	1353.6	1979.4	367.3
All species	50493.9	4837.7	9765.1	10184.7	8753.0	6094.1	4311.0	5842.2	706.0

Table 15 – *Volume of growing stock and sawtimber on timberland by county and species group, East Texas, 1986*

County	Growing Stock						Sawtimber					
	All species	Softwood			Hardwood		All species	Softwood			Hardwood	
		Pine						Pine				
		Planted	Natural	Other	Soft[1]	Hard[2]		Planted	Natural	Other	Soft[1]	Hard[2]
	Million cubic feet						*Million board feet*					
Anderson	266.3	...	136.0	1.7	55.3	73.2	1043.5	...	580.1	2.9	192.1	268.4
Angelina	553.0	64.2	390.0	0.4	34.1	64.3	2252.5	178.8	1794.4	...	86.3	193.0
Bowie	266.0	0.4	99.4	...	69.4	96.8	1009.4	1.3	454.8	...	249.0	304.3
Cass	440.7	18.5	160.9	3.9	98.1	159.2	1657.4	50.7	770.7	8.1	239.8	588.1
Cherokee	425.2	14.9	223.2	0.7	80.5	105.9	1657.0	53.7	1106.4	3.4	144.7	348.8
Grimes	94.6	4.0	42.8	5.2	5.8	36.7	312.0	12.4	138.4	15.0	9.8	136.4
Hardin	316.3	40.2	159.1	2.0	33.7	81.4	1154.5	90.5	687.5	6.1	67.2	303.3
Harris	203.9	6.5	133.0	0.9	32.4	31.1	884.8	22.9	632.9	5.1	109.4	114.5
Harrison	388.2	8.6	205.6	11.1	74.8	88.1	1247.5	21.9	820.5	8.7	140.5	255.9
Henderson	72.7	0.2	26.4	1.0	7.2	37.9	234.8	...	106.4	1.3	11.8	115.3
Houston	561.4	33.4	358.5	3.2	65.6	100.6	2581.0	147.2	1904.1	14.1	169.6	345.9
Jasper	641.7	75.3	354.2	5.2	71.4	135.6	2617.9	130.3	1792.3	20.2	165.6	509.5
Jefferson[3]	107.5	...	56.3	6.2	24.2	20.8	489.7	...	305.6	24.2	82.9	77.0
Leon	138.7	...	26.1	1.5	25.6	85.6	441.5	...	126.8	6.6	77.0	231.1
Liberty	444.6	16.0	144.5	8.3	126.2	149.6	1737.3	22.7	766.9	35.8	380.7	531.2
Madison	53.3	...	10.3	0.9	15.5	26.6	170.4	...	42.7	1.0	33.6	93.2
Marion	226.2	1.7	116.2	19.4	34.9	54.2	770.3	3.6	512.3	56.9	65.5	132.0
Montgomery	647.1	15.7	475.9	...	52.0	100.4	2879.9	35.1	2400.1	...	116.5	328.1
Morris	54.3	...	23.2	...	12.7	18.4	179.3	...	83.4	...	47.7	48.2
Nacogdoches	536.6	22.8	335.7	0.4	83.0	94.7	2169.6	46.3	1618.6	1.5	168.8	334.3
Newton	540.9	104.6	247.1	4.6	73.1	111.4	2066.8	292.2	1156.4	22.2	223.9	372.2
Orange	149.7	9.8	76.7	2.9	14.2	46.1	689.6	45.5	414.9	11.2	40.8	177.2
Panola	384.9	34.8	198.6	19.0	43.3	89.3	1583.5	63.9	1002.9	100.9	83.6	332.2
Polk	570.7	26.1	422.6	2.0	44.8	75.2	2469.0	28.9	2050.6	9.1	137.4	243.0
Red River	242.3	15.1	83.6	0.9	21.7	121.1	810.9	64.5	339.0	2.6	59.8	345.0
Rusk	345.2	...	224.4	1.7	40.2	78.9	1345.9	...	1050.2	2.2	82.3	211.2
Sabine	440.6	26.1	321.5	...	24.3	68.6	2134.1	145.2	1669.0	...	70.8	249.1
San Augustine	312.3	45.0	179.8	...	34.2	53.2	1298.7	150.9	921.1	...	72.1	154.7
San Jacinto	366.6	13.5	244.0	9.9	51.1	48.1	1554.9	30.2	1194.9	54.4	129.4	145.9
Shelby	453.4	32.7	275.4	2.1	46.1	97.1	1978.4	118.8	1415.4	10.3	67.2	366.6
Smith	181.0	22.4	69.3	0.3	37.5	51.4	606.1	80.1	272.5	...	79.1	174.4
Titus[4]	119.3	...	39.6	1.1	23.4	55.2	385.0	...	159.8	2.0	48.8	174.5
Trinity	454.0	22.9	346.2	...	30.5	54.4	2202.4	10.6	1868.9	...	104.4	218.4
Tyler	504.2	27.2	279.4	2.0	71.4	124.2	2113.9	26.9	1417.6	10.8	214.9	443.8
Upshur[5]	254.4	15.6	126.3	...	51.7	60.7	972.6	70.3	593.6	...	94.2	214.5
Van Zandt	60.8	...	5.2	2.1	11.3	42.2	176.0	...	26.1	3.6	29.2	117.1
Walker	382.9	14.4	290.8	0.3	23.6	53.9	1667.6	17.6	1406.3	1.4	68.2	174.2
Waller	111.9	...	81.0	...	8.1	22.8	480.0	...	380.6	...	28.4	70.9
Wood	133.3	0.5	74.7	...	18.0	40.1	468.2	...	332.5	...	43.0	92.7
All counties	12446.7	736.2	7063.5	121.0	1671.0	2855.0	50493.9	1962.9	34317.1	441.3	4236.3	9536.3

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

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

[3] Chambers included in Jefferson.

[4] Camp and Franklin included in Titus.

[5] Gregg included in Upshur.

Table 16 – *Volume of timber on timberland by class of timber and species group, East Texas, 1986*

Class of timber	All species	Softwood			Hardwood	
		Pine				
		Planted	Natural	Other	Soft[1]	Hard[2]
	Million cubic feet					
Sawtimber trees:						
Saw-log portion	8317.6	336.1	5603.0	81.2	717.1	1580.2
Upper-stem portion	868.2	39.3	450.4	9.9	130.6	238.0
Total	9185.9	375.4	6053.4	91.2	847.7	1818.2
Poletimber trees	3260.8	360.9	1010.1	29.8	823.3	1036.8
All growing-stock trees	12446.7	736.2	7063.5	121.0	1671.0	2855.0
Rough trees:						
Sawtimber size	839.2	11.3	69.3	10.1	193.4	554.9
Poletimber size	639.3	13.9	52.0	4.8	193.5	375.1
Total	1478.4	25.3	121.3	14.9	386.9	930.0
Rotten trees:						
Sawtimber size	283.7	...	8.9	3.4	78.2	193.2
Poletimber size	23.2	...	0.2	0.2	9.0	13.6
Total	306.9	...	9.1	3.7	87.2	206.9
Salvable dead trees:						
Sawtimber size	156.9	2.8	107.9	3.0	8.5	34.7
Poletimber size	56.3	5.6	27.9	0.9	7.8	14.0
Total	213.2	8.5	135.8	3.9	16.3	48.7
All classes	14445.2	770.0	7329.7	143.4	2161.5	4040.6

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

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

Table 17 - *Volume of live trees and growing stock on timberland by ownership class and species group, East Texas, 1986*

Ownership class	Live trees						Growing stock					
		Softwood			Hardwood			Softwood			Hardwood	
		Pine						Pine				
	All species	Planted	Natural	Other	Soft[1]	Hard[2]	All species	Planted	Natural	Other	Soft[1]	Hard[2]
	Million cubic feet											
National forest	1456.6	49.3	1165.3	...	81.2	160.8	1391.9	48.7	1153.2	...	64.4	125.7
Other public	241.6	12.1	114.9	0.2	33.3	81.0	221.0	12.1	113.1	...	27.4	68.4
Forest industry	3868.9	466.2	1796.4	59.0	542.1	1005.2	3412.5	453.2	1770.2	52.6	417.4	719.1
Forest industry-leased	23.2	...	0.2	0.7	1.1	21.1	19.3	...	0.2	0.6	1.1	17.3
Other private	8641.7	233.9	4117.0	79.6	1487.4	2723.8	7401.9	222.2	4026.8	67.8	1160.6	1924.5
All ownerships	14232.0	761.5	7193.9	139.6	2145.2	3991.9	12446.7	736.2	7063.5	121.0	1671.0	2855.0

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

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

Table 18 – *Average net annual growth of growing stock and sawtimber on timberland by county and species group, East Texas, 1986*

County	Growing stock						Sawtimber					
		Softwood			Hardwood			Softwood			Hardwood	
		Pine						Pine				
	All species	Planted	Natural	Other	Soft[1]	Hard[2]	All species	Planted	Natural	Other	Soft[1]	Hard[2]
	Million cubic feet						*Million board feet*					
Anderson	10.5	0.1	7.8	0.1	1.2	1.3	54.1	...	38.6	0.3	7.8	7.3
Angelina	27.7	5.8	18.2	...	1.4	2.2	119.4	20.2	87.1	...	3.7	8.4
Bowie	15.1	...	6.8	...	4.0	4.3	64.9	0.2	30.0	...	19.5	15.2
Cass	27.6	2.9	12.3	0.2	4.5	8.1	120.3	10.0	66.4	-0.8	10.3	34.4
Cherokee	22.3	2.4	14.1	...	2.3	3.5	118.9	9.7	82.7	0.1	7.1	19.3
Grimes	7.9	1.4	5.1	0.1	0.3	1.1	32.4	6.0	21.2	0.2	0.9	4.1
Hardin	16.5	5.5	8.3	...	0.8	1.8	67.5	16.7	37.8	0.2	1.5	11.4
Harris	7.1	...	6.3	...	0.6	0.2	41.3	...	37.8	...	2.7	0.8
Harrison	25.0	0.9	17.3	0.4	2.5	3.9	97.6	4.5	76.5	0.7	5.1	10.8
Henderson	3.3	0.8	0.9	0.1	0.2	1.2	13.3	3.6	4.6	0.1	0.2	4.9
Houston	26.4	3.6	16.0	0.1	1.5	5.2	148.9	18.1	103.1	0.9	4.1	22.6
Jasper	32.7	7.0	17.3	...	3.0	5.4	141.2	13.6	96.0	0.5	7.5	23.7
Jefferson[3]	3.2	...	2.7	0.2	0.3	0.1	23.3	...	17.2	1.2	2.2	2.7
Leon	6.8	...	2.9	...	0.3	3.6	37.8	...	16.4	0.5	2.0	19.0
Liberty	13.8	1.3	4.1	0.2	4.0	4.3	66.4	2.1	29.2	0.6	14.6	19.8
Madison	1.1	...	0.9	...	0.2	...	1.1	...	3.5	...	-0.9	-1.5
Marion	15.6	0.6	9.9	1.0	1.8	2.3	59.6	1.8	48.5	2.6	2.7	4.0
Montgomery	23.6	1.7	17.4	...	2.0	2.5	130.2	3.7	108.2	...	6.6	11.6
Morris	3.2	...	2.1	...	0.4	0.7	12.6	...	9.9	...	0.1	2.6
Nacogdoches	29.4	2.8	18.6	...	3.4	4.5	140.4	6.1	103.5	0.2	10.1	20.6
Newton	29.9	10.1	12.5	0.1	1.9	5.3	121.8	28.7	67.7	0.7	5.5	19.1
Orange	6.1	1.4	3.7	0.1	0.3	0.7	37.7	7.7	22.7	0.1	1.5	5.7
Panola	18.8	3.7	8.8	0.3	2.4	3.6	85.1	9.1	51.2	2.8	5.1	16.9
Polk	35.5	6.1	23.5	0.1	1.9	3.9	158.8	16.1	124.8	0.4	4.9	12.6
Red River	11.3	2.1	4.4	0.1	0.4	4.3	48.3	7.8	22.3	0.3	1.4	16.5
Rusk	19.6	...	13.2	0.1	2.2	4.1	95.8	...	74.4	0.2	5.4	15.7
Sabine	17.4	1.3	12.6	...	0.9	2.7	100.9	7.0	79.0	...	2.8	12.2
San Augustine	14.8	4.1	7.2	...	1.4	2.1	64.9	11.5	43.7	...	2.5	7.1
San Jacinto	17.9	3.2	10.9	...	1.8	1.9	90.3	9.2	68.5	1.3	5.0	6.3
Shelby	24.0	1.9	18.1	0.2	0.7	3.1	139.1	10.9	108.7	1.2	3.2	15.1
Smith	11.7	1.5	7.3	...	0.6	2.3	48.1	7.5	30.5	...	2.2	7.9
Titus[4]	6.9	...	3.9	...	0.6	2.5	31.3	...	18.4	...	3.4	9.5
Trinity	22.8	4.6	16.4	...	0.9	1.0	121.9	13.2	99.5	...	4.0	5.3
Tyler	23.6	4.9	12.0	0.1	1.8	4.8	105.7	10.8	70.8	0.6	5.8	17.7
Upshur[5]	16.6	1.5	10.8	...	2.6	1.6	77.2	8.4	57.0	...	3.3	8.5
Van Zandt	2.3	...	0.3	0.1	0.2	1.7	7.9	...	2.1	...	...	5.8
Walker	17.7	1.9	13.5	...	1.0	1.2	81.6	2.8	72.3	...	2.2	4.3
Waller	5.2	...	3.8	...	0.4	1.1	28.1	...	23.1	...	2.1	3.0
Wood	5.9	0.1	3.1	...	0.6	2.0	26.3	...	17.8	...	2.5	6.0
All counties	626.8	85.2	374.7	3.3	57.5	106.2	2962.1	267.0	2072.7	15.0	170.5	436.9

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

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

[3] Chambers included in Jefferson.

[4] Camp and Franklin included in Titus.

[5] Gregg included in Upshur.

Table 19 – *Average annual removals of growing stock and sawtimber on timberland by county and species group, East Texas, 1986*

County	Growing stock						Sawtimber					
	All species	Softwood			Hardwood		All species	Softwood			Hardwood	
		Pine		Other				Pine				
		Planted	Natural		Soft[1]	Hard[2]		Planted	Natural		Soft[1]	Hard[2]
	Million cubic feet						*Million board feet*					
Anderson	6.5	0.7	3.3	...	0.5	2.0	25.7	2.5	15.3	...	1.6	6.3
Angelina	19.2	8.1	6.6	...	0.9	3.5	91.0	46.6	31.8	...	1.7	10.9
Bowie	13.0	0.6	7.7	...	0.9	3.9	47.7	2.8	27.6	...	3.3	13.9
Cass	24.0	5.2	10.1	0.1	3.4	5.2	71.5	13.1	37.0	0.3	7.3	13.8
Cherokee	18.1	6.2	8.3	...	1.5	2.2	71.3	23.6	40.3	...	2.9	4.5
Grimes	10.7	4.1	6.2	...	...	0.4	48.0	18.0	28.9	...	...	1.1
Hardin	33.5	13.5	9.0	...	2.1	8.8	120.0	52.5	40.1	...	4.4	23.0
Harris	9.2	...	6.7	...	0.6	2.0	40.5	...	33.5	...	0.9	6.0
Harrison	25.8	2.6	16.8	0.1	2.8	3.5	82.6	11.9	54.9	0.6	4.8	10.3
Henderson	3.6	2.0	0.3	...	0.6	0.7	12.6	8.1	0.7	...	2.3	1.6
Houston	16.2	6.3	7.8	...	0.4	1.7	69.8	29.4	36.5	...	0.6	3.2
Jasper	24.8	3.8	16.6	...	1.4	2.9	87.5	7.6	68.4	...	3.8	7.6
Jefferson[3]	2.6	...	1.9	...	0.2	0.5	11.4	...	7.7	...	1.0	2.7
Leon	3.0	...	1.9	...	0.2	0.9	12.4	...	9.2	...	0.8	2.4
Liberty	8.6	0.3	3.6	...	1.4	3.3	37.4	1.8	19.5	...	4.6	11.6
Madison	...	...	...	...	...	...	...	...	...	...	...	...
Marion	11.5	0.8	8.5	...	0.6	1.6	42.7	2.5	35.2	...	1.4	3.6
Montgomery	25.1	0.8	21.5	...	0.6	2.2	109.7	3.8	99.1	...	1.1	5.7
Morris	4.0	...	3.1	...	0.5	0.4	14.9	...	12.1	...	1.4	1.3
Nacogdoches	15.9	3.9	7.6	...	2.3	2.2	57.8	16.0	28.7	...	6.5	6.6
Newton	37.9	14.6	14.1	...	1.6	7.6	160.7	63.8	69.8	...	4.2	22.9
Orange	3.8	2.1	1.3	...	0.2	0.2	16.7	8.7	6.6	...	0.6	0.9
Panola	20.7	4.5	12.0	...	1.9	2.3	77.1	13.8	49.7	...	5.7	7.9
Polk	51.8	18.9	26.6	0.1	1.7	4.5	216.2	85.8	116.4	...	2.5	11.6
Red River	6.8	2.1	0.9	...	0.1	3.7	19.0	2.8	4.0	...	0.2	11.9
Rusk	17.5	...	14.4	...	0.9	2.2	62.4	...	54.3	...	1.3	6.8
Sabine	15.4	4.0	8.0	...	1.0	2.4	64.5	18.1	37.9	...	2.3	6.2
San Augustine	16.3	6.9	6.0	...	0.9	2.4	57.8	23.0	25.4	...	1.6	7.9
San Jacinto	24.9	8.2	14.2	...	1.0	1.5	114.1	34.5	71.7	...	2.9	5.0
Shelby	18.7	0.9	14.6	...	0.9	2.4	67.6	2.6	56.6	...	2.8	5.7
Smith	10.8	0.9	6.2	...	1.4	2.4	35.8	2.0	23.1	...	2.5	8.2
Titus[4]	9.5	...	6.2	...	0.8	2.4	41.1	...	27.5	0.1	3.2	10.3
Trinity	21.4	7.3	13.5	...	0.3	0.2	94.6	31.1	62.8	...	0.2	0.6
Tyler	38.0	12.9	16.8	...	2.5	5.9	169.7	57.1	90.4	...	5.5	16.7
Upshur[5]	15.7	1.6	10.9	...	1.7	1.4	53.1	3.9	40.0	...	4.6	4.6
Van Zandt	0.8	...	...	...	...	0.8	1.6	...	...	...	...	1.6
Walker	18.1	3.5	13.3	...	0.4	0.9	84.1	16.6	64.3	...	1.6	1.6
Waller	3.4	...	3.4	...	...	...	15.6	...	15.6	...	...	...
Wood	5.2	...	2.0	...	0.9	2.3	21.4	...	9.1	...	3.4	8.9
All counties	612.0	147.1	331.7	0.4	39.4	93.3	2427.6	604.1	1451.9	1.0	95.4	275.2

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

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

[3] Chambers included in Jefferson.

[4] Camp and Franklin included in Titus.

[5] Gregg included in Upshur.

Table 20 – *Average net annual growth and average annual removals of growing stock on timberland, East Texas, 1986*

Species	Growth	Removals
	----- *Million cubic feet* ----	
Yellow pines	459.9	478.9
Other softwoods	3.3	0.4
Total softwoods	463.2	479.2
Select white-red oaks	22.2	16.8
Other white-red oaks	70.1	63.9
Hickory	4.4	7.2
Hard maple	...	0.1
Sweetgum	39.8	27.0
Ash-walnut-black cherry	5.2	2.8
Other hardwoods	21.8	15.0
Total hardwoods	163.6	132.8
All species	626.8	612.0

Table 21 – *Average net annual growth and average annual removals of sawtimber on timberland, East Texas, 1986*

Species	Growth	Removals
	----- *Million board feet* ----	
Yellow pines	2339.7	2056.0
Other softwoods	15.0	1.0
Total softwoods	2354.7	2057.0
Select white-red oaks	89.1	56.2
Other white-red oaks	300.4	187.5
Hickory	17.8	17.9
Sweetgum	100.7	64.9
Ash-walnut-black cherry	19.1	9.6
Other hardwoods	80.2	34.6
Total hardwoods	607.5	370.6
All species	2962.1	2427.6

Table 22 – *Average annual mortality of growing stock and sawtimber on timberland by species, East Texas, 1986*

Species	Growing stock	Sawtimber
	- - *Million cubic feet* - - - -	*Million board feet* - -
Yellow pines	55.8	194.0
Other softwoods	0.5	1.9
Total softwoods	56.3	195.9
Select white-red oaks	2.9	9.2
Other white-red oaks	18.6	59.3
Hickory	2.6	6.7
Sweetgum	6.3	13.8
Ash-walnut-black cherry	0.9	2.6
Other hardwoods	9.1	22.7
Total hardwoods	40.3	114.2
All species	96.7	310.1

Table 23 – *Average net annual growth and average annual removals of growing stock on timberland by ownership class and species group, East Texas, 1986*

Ownership class	Growth						Removals					
	All species	Softwood			Hardwood		All species	Softwood			Hardwood	
		Pine		Other	Soft[1]	Hard[2]		Pine		Other	Soft[1]	Hard[2]
		Planted	Natural					Planted	Natural			
	Million cubic feet											
National forest	44.1	5.7	33.1	...	1.9	3.4	30.1	11.6	16.4	...	0.4	1.6
Other public	8.0	0.4	4.0	...	0.9	2.6	4.4	0.1	2.0	...	1.1	1.1
Forest industry	209.4	60.2	102.5	0.5	15.5	30.6	298.7	119.3	122.1	0.2	14.8	42.3
Forest industry-leased	0.5	...	...	...	...	0.4	1.2	...	0.2	...	...	1.0
Other private	364.8	18.8	235.1	2.8	39.1	69.1	277.6	16.0	191.0	0.2	23.2	47.2
All ownerships	626.8	85.2	374.7	3.3	57.5	106.2	612.0	147.1	331.7	0.4	39.4	93.3

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

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

Table 24 – *Average net annual growth and average annual removals of sawtimber on timberland by ownership class and species group, East Texas, 1986*

Ownership class	Growth						Removals					
	All species	Softwood			Hardwood		All species	Softwood			Hardwood	
		Pine						Pine				
		Planted	Natural	Other	Soft[1]	Hard[2]		Planted	Natural	Other	Soft[1]	Hard[2]
	Million board feet											
National forest	282.5	13.7	246.3	...	7.2	15.4	141.1	49.9	85.0	...	0.9	5.3
Other public	38.0	3.2	23.5	...	1.5	9.8	17.2	0.8	9.2	...	3.1	4.0
Forest industry	900.9	175.0	544.5	5.7	50.7	125.0	1232.5	506.3	576.3	0.6	33.4	115.9
Forest industry-leased	2.0	...	0.1	...	...	1.9	4.0	...	1.0	...	...	3.0
Other private	1738.7	75.0	1258.3	9.3	111.1	285.0	1032.8	47.1	780.4	0.4	58.0	146.9
All ownerships	2962.1	267.0	2072.7	15.0	170.5	436.9	2427.6	604.1	1451.9	1.0	95.4	275.2

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

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

Table 25 – *Volume of sawtimber on timberland by species and tree grade, East Texas, 1986*

Species	All grades	Grade 1	Grade 2	Grade 3	Grade 4
	Million board feet				
Yellow pines	36280.0	6142.3	7858.4	22279.3	...
Cypress	376.3	115.0	123.5	137.8	...
Redcedar	65.0	65.0	...	...	...
Total softwoods	36721.3	6322.4	7981.9	22417.1	...
Select white-red oaks	1938.8	212.9	374.9	810.2	540.9
Other white-red oaks	6402.5	214.6	744.2	2674.1	2769.6
Hickory	573.3	39.9	73.5	266.7	193.3
Hard maple	6.5	...	...	...	6.5
Sweetgum	2354.0	186.0	408.6	1106.2	653.1
Tupelo and blackgum	716.4	93.3	227.0	276.9	119.2
Ash-walnut-black cherry	374.7	42.3	120.8	194.4	17.3
Other hardwoods	1406.3	111.0	225.6	646.0	423.8
Total hardwoods	13772.6	899.9	2174.4	5974.5	4723.7
All species	50493.9	7222.3	10156.3	28391.5	4723.7

Table 26 – *Volume of softwood growing stock on timberland by forest type, East Texas, 1986*

County	Total	Forest type group: Longleaf-slash pine: Planted	Longleaf-slash pine: Natural	Loblolly-shortleaf pine: Planted	Loblolly-shortleaf pine: Natural	Oak-pine	Oak-hickory	Oak-gum cypress	Elm-ash cottonwood
	Million cubic feet								
Anderson	137.8	...	...	...	90.5	39.5	6.1	1.6	...
Angelina	454.6	19.0	...	44.7	331.2	47.6	7.5	4.7	...
Bowie	99.8	...	...	...	62.6	33.3	2.7	1.2	...
Cass	183.4	9.5	...	3.2	91.5	50.7	27.4	1.2	...
Cherokee	238.8	...	...	11.8	128.1	69.5	29.4	...	...
Grimes	52.1	...	...	4.0	37.8	8.4	1.8	...	...
Hardin	201.2	33.4	5.8	6.4	95.2	45.3	5.1	10.1	...
Harris	140.4	...	...	6.5	103.6	17.8	8.4	4.0	...
Harrison	225.3	...	...	8.6	139.3	45.0	17.5	14.9	...
Henderson	27.6	...	...	...	14.3	10.8	1.3	1.2	...
Houston	395.1	2.2	...	29.6	283.2	66.7	12.8	0.6	...
Jasper	434.7	55.8	22.8	15.4	212.4	102.6	11.1	14.5	...
Jefferson[1]	62.5	...	...	...	47.5	6.8	2.1	6.2	...
Leon	27.5	...	...	...	19.5	3.3	4.6	...	...
Liberty	168.8	...	...	16.6	52.2	41.5	44.2	14.4	...
Madison	11.2	...	...	...	8.7	1.6	0.9	...	...
Marion	137.2	...	6.7	1.7	56.8	43.3	5.0	23.8	...
Montgomery	494.7	...	...	18.7	351.9	102.2	17.8	4.0	...
Morris	23.2	...	...	...	14.3	8.1	0.7	...	...
Nacogdoches	358.6	7.5	...	14.2	241.4	73.2	22.6	...	...
Newton	356.3	37.9	22.0	57.3	164.5	45.8	23.6	5.2	...
Orange	89.4	4.9	...	...	32.6	33.5	...	18.3	...
Panola	252.4	...	...	33.0	115.7	70.5	7.9	23.7	1.6
Polk	450.7	...	20.2	22.9	345.5	36.0	1.2	4.8	...
Red River	99.5	...	...	15.1	60.4	15.8	7.2	1.1	...
Rusk	226.1	...	...	...	172.7	40.4	13.1	...	...
Sabine	347.7	12.9	...	12.5	258.4	46.6	17.3	...	...
San Augustine	224.9	...	...	43.8	154.8	18.0	7.2	1.1	...
San Jacinto	267.4	...	...	8.8	185.7	51.2	12.2	9.5	...
Shelby	310.2	...	...	32.7	209.6	37.0	25.1	5.8	...
Smith	92.0	15.5	...	6.6	46.8	7.0	16.2	...	...
Titus[2]	40.7	...	...	...	26.2	3.9	9.7	0.9	...
Trinity	369.1	...	10.7	21.8	291.4	40.5	3.2	1.6	...
Tyler	308.6	10.5	22.3	12.8	124.9	112.0	24.3	1.9	...
Upshur[3]	142.0	...	...	14.9	85.9	30.4	5.9	4.2	0.8
Van Zandt	7.3	...	...	...	...	4.9	2.3	...	...
Walker	305.5	...	...	14.4	252.3	32.1	6.6	...	...
Waller	81.0	...	...	...	69.3	11.7	...	...	...
Wood	75.1	...	...	...	40.0	31.5	3.6	...	...
All counties	7920.7	209.1	110.5	477.9	5018.5	1506.0	415.6	180.7	2.4

[1] Chambers included in Jefferson.

[2] Camp and Franklin included in Titus.

[3] Gregg included in Upshur.

Table 27 – *Volume of hardwood growing stock on timberland by forest type, East Texas, 1986*

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	128.5	...	...	...	5.0	26.7	38.3	45.6	12.9
Angelina	98.4	...	...	3.7	39.6	28.8	9.7	16.5	...
Bowie	166.2	...	...	...	8.8	26.4	40.9	52.2	37.8
Cass	257.3	...	...	...	14.9	51.5	123.1	67.7	...
Cherokee	186.4	...	...	0.2	17.5	40.3	122.1	6.3	...
Grimes	42.5	...	...	...	1.5	3.5	19.1	18.4	...
Hardin	115.1	0.5	...	0.4	9.6	28.2	33.0	43.5	...
Harris	63.5	...	...	1.7	5.8	8.0	40.2	7.8	...
Harrison	162.9	...	...	0.9	19.4	27.3	66.0	49.2	...
Henderson	45.1	...	...	...	0.5	3.6	31.8	9.2	...
Houston	166.2	0.4	...	0.9	39.0	39.9	26.6	59.6	...
Jasper	207.0	2.1	1.1	0.8	26.4	73.6	33.4	69.6	...
Jefferson[1]	45.0	...	...	...	5.0	7.5	4.3	28.1	...
Leon	111.2	...	...	...	1.2	0.4	75.4	30.6	3.7
Liberty	275.8	...	...	...	4.5	34.1	93.3	143.9	...
Madison	42.1	...	...	...	0.7	1.7	28.9	10.9	...
Marion	89.1	...	...	1.3	8.1	31.1	22.2	26.3	...
Montgomery	152.4	...	...	0.3	42.7	62.3	32.5	14.5	...
Morris	31.1	...	...	...	1.3	15.5	3.1	11.1	...
Nacogdoches	177.7	1.8	...	...	23.7	45.6	77.2	29.5	...
Newton	184.6	1.5	1.7	4.5	27.7	27.5	73.9	47.8	...
Orange	60.3	...	...	...	9.0	14.5	9.9	26.9	...
Panola	132.5	...	...	0.9	12.9	46.6	22.4	46.7	3.0
Polk	120.0	...	...	2.3	32.6	30.6	25.5	29.0	...
Red River	142.8	...	...	0.4	4.4	10.7	59.3	68.0	...
Rusk	119.1	...	...	...	13.8	30.6	74.7	...	...
Sabine	92.9	...	...	0.3	29.8	29.3	33.5	...	...
San Augustine	87.4	...	...	1.7	25.8	5.9	4.7	49.3	...
San Jacinto	99.2	...	...	0.3	23.4	24.4	34.3	16.8	...
Shelby	143.2	...	...	5.1	25.1	15.1	64.7	33.1	...
Smith	89.0	...	...	1.0	5.2	2.1	63.0	16.2	1.5
Titus[2]	78.6	...	...	...	1.3	3.7	47.6	26.0	...
Trinity	84.8	...	0.3	1.0	22.2	14.3	18.8	28.3	...
Tyler	195.6	...	2.8	3.9	15.7	67.0	46.0	60.3	...
Upshur[3]	112.4	...	...	...	16.2	24.2	9.6	58.7	3.7
Van Zandt	53.6	...	...	...	...	5.5	43.9	4.2	...
Walker	77.4	...	...	1.8	22.3	13.8	23.4	16.2	...
Waller	30.9	...	...	...	11.0	3.9	8.7	7.3	...
Wood	58.1	...	...	...	0.5	22.8	24.9	9.9	...
All counties	4526.0	6.2	5.9	33.3	574.3	948.7	1609.9	1285.0	62.6

[1] Chambers included in Jefferson.

[2] Camp and Franklin included in Titus.

[3] Gregg included in Upshur.

Table 28 – *Volume of softwood growing stock in the saw-log portion of sawtimber trees on timberland by forest type, East Texas, 1936*

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	98.8	...	...	...	60.8	32.3	4.5	1.3	...
Angelina	335.6	14.6	...	16.3	255.2	38.4	6.9	4.1	...
Bowie	77.5	...	...	...	51.1	23.5	2.1	0.8	...
Cass	138.9	5.1	...	0.5	72.6	37.4	22.3	1.1	...
Cherokee	193.5	...	...	8.0	102.9	59.5	23.2	...	...
Grimes	30.8	...	...	2.5	18.9	7.7	1.6	...	...
Hardin	129.8	14.1	2.3	2.2	62.4	38.4	2.7	7.7	...
Harris	113.0	...	...	4.1	84.9	13.6	7.5	2.8	...
Harrison	154.2	...	...	4.2	105.1	26.9	12.6	5.4	...
Henderson	21.0	...	...	...	12.2	7.5	0.6	0.8	...
Houston	315.7	2.0	...	21.2	231.9	53.1	7.5	...	...
Jasper	320.0	17.4	19.1	5.3	169.3	88.1	8.2	12.5	...
Jefferson[1]	53.0	...	...	...	40.7	6.7	1.3	4.4	...
Leon	22.7	...	...	...	16.4	2.3	3.9	...	...
Liberty	133.5	...	...	5.3	40.3	37.9	38.1	11.9	...
Madison	8.0	...	...	...	6.6	1.0	0.3	...	...
Marion	99.0	...	4.0	0.6	43.2	32.7	2.7	15.8	...
Montgomery	399.8	...	...	6.2	293.1	83.6	13.1	3.9	...
Morris	14.7	...	...	...	7.3	6.7	0.7	...	...
Nacogdoches	264.1	6.2	...	0.8	187.5	56.2	13.4	...	...
Newton	239.7	7.9	10.1	32.4	129.9	34.3	21.2	3.9	...
Orange	75.7	2.9	...	...	28.1	28.7	...	15.9	...
Panola	194.7	...	...	11.2	95.0	60.0	5.2	21.8	1.6
Polk	334.9	...	15.5	1.9	266.9	45.6	0.7	4.3	...
Red River	71.7	...	...	11.5	43.9	11.9	3.4	1.0	...
Rusk	172.9	...	...	...	131.9	30.4	10.6	...	...
Sabine	295.4	12.1	...	10.6	216.5	41.6	14.6	...	...
San Augustine	174.1	...	...	25.2	127.8	14.6	5.9	0.5	...
San Jacinto	198.1	...	...	...	142.4	38.3	9.1	8.4	...
Shelby	236.5	...	...	19.0	165.7	29.2	17.9	4.7	...
Smith	60.3	12.7	...	1.1	31.4	3.9	11.0	...	...
Titus[2]	28.4	...	...	...	19.7	1.4	7.4	...	...
Trinity	299.2	...	6.9	2.3	256.8	29.2	2.9	1.2	...
Tyler	237.9	0.8	18.4	3.4	101.5	92.2	19.9	1.8	...
Upshur[3]	110.2	...	...	11.3	69.3	21.8	4.0	3.1	0.7
Van Zandt	5.4	...	...	...	...	3.7	1.7	...	...
Walker	239.2	...	...	3.4	202.1	28.0	5.6	...	...
Waller	65.4	...	...	...	55.9	9.5	...	...	...
Wood	57.0	...	...	...	30.8	23.2	3.0	...	...
All counties	6020.3	95.9	76.3	210.6	3978.0	1201.1	317.2	138.9	2.3

[1] Chambers included in Jefferson.

[2] Camp and Franklin included in Titus.

[3] Gregg included in Upshur.

Table 29 – *Volume of hardwood growing stock in the saw-log portion of sawtimber trees on timberland by forest type, East Texas, 1986*

		Forest type group							
		Longleaf-slash pine		Loblolly-shortleaf pine					
County	Total	Planted	Natural	Planted	Natural	Oak-pine	Oak-hickory	Oak-gum cypress	Elm-ash cottonwood
	Million cubic feet								
Anderson	75.8	...	...	...	2.3	13.4	22.6	28.4	9.1
Angelina	48.3	...	...	1.9	14.9	16.7	4.0	10.8	...
Bowie	89.5	...	...	...	4.7	13.7	15.3	26.2	29.7
Cass	136.2	...	...	...	6.8	22.3	63.9	43.3	...
Cherokee	82.3	...	...	...	7.1	17.0	54.9	3.3	...
Grimes	24.4	...	...	...	0.4	1.6	8.6	13.8	...
Hardin	61.3	...	...	0.3	1.1	10.9	20.0	29.1	...
Harris	38.4	...	...	1.1	3.9	1.5	27.5	4.4	...
Harrison	68.9	...	...	0.2	6.7	10.1	24.4	27.4	...
Henderson	20.5	...	...	...	0.4	0.8	12.7	6.6	...
Houston	84.1	0.3	...	0.4	14.8	18.3	10.8	39.5	...
Jasper	112.7	0.6	0.3	...	7.3	37.1	17.2	50.1	...
Jefferson[1]	26.9	...	...	...	2.0	3.8	3.0	18.2	...
Leon	52.0	...	...	...	0.3	0.4	32.2	16.0	3.1
Liberty	150.4	...	...	...	1.7	14.2	42.9	91.6	...
Madison	21.2	...	...	...	0.3	0.4	14.3	6.2	...
Marion	33.3	...	...	0.3	1.4	12.1	3.2	16.3	...
Montgomery	74.4	...	...	...	19.8	31.4	16.9	6.3	...
Morris	16.7	...	...	...	...	10.0	0.3	6.3	...
Nacogdoches	83.2	1.3	...	...	8.5	22.7	35.6	15.1	...
Newton	100.1	0.5	1.2	1.5	11.0	9.9	40.9	35.2	...
Orange	35.1	...	...	...	3.8	6.5	8.5	16.3	...
Panola	68.7	...	...	0.3	3.9	26.3	10.6	25.3	2.3
Polk	63.8	...	...	1.1	15.0	11.0	15.2	21.6	...
Red River	68.9	...	...	...	1.3	5.0	27.8	34.8	...
Rusk	52.0	...	...	...	5.3	11.1	35.6	...	...
Sabine	53.7	...	...	...	14.2	18.8	20.7	...	...
San Augustine	39.5	...	...	0.6	8.2	2.1	1.6	27.0	...
San Jacinto	47.4	...	...	...	8.8	6.5	20.7	11.3	...
Shelby	70.1	...	...	3.1	11.0	5.2	29.5	21.3	...
Smith	42.3	...	...	0.7	2.3	1.4	29.8	7.4	0.8
Titus[2]	38.5	...	...	...	0.5	1.6	24.1	12.3	...
Trinity	51.0	...	...	0.6	9.1	6.7	10.6	24.0	...
Tyler	109.7	...	1.0	1.5	5.8	28.0	29.0	44.3	...
Upshur[3]	50.4	...	...	...	8.9	10.8	2.8	26.0	1.9
Van Zandt	24.5	...	...	...	...	3.4	20.8	0.3	...
Walker	41.1	...	...	1.4	8.9	7.8	12.8	10.4	...
Waller	16.8	...	...	...	2.8	1.8	7.5	4.8	...
Wood	23.3	...	...	...	...	9.9	10.3	3.1	...
All counties	2297.3	2.7	2.6	14.8	225.3	432.1	789.1	784.0	46.8

[1] Chambers included in Jefferson.

[2] Camp and Franklin included in Titus.

[3] Gregg included in Upshur.

Table 30 – *Volume of timber on timberland by county, class of timber and species group, East Texas, 1986*

County	All classes	Growing stock		Rough		Rotten	
		Softwood	Hardwood	Softwood	Hardwood	Softwood	Hardwood
	Million cubic feet						
Anderson	336.6	137.8	128.5	3.6	56.0	0.2	10.5
Angelina	586.0	454.6	98.4	4.9	22.7	0.2	5.1
Bowie	307.7	99.8	166.2	2.2	30.4	...	9.1
Cass	505.1	183.4	257.3	7.2	44.7	...	12.5
Cherokee	481.9	238.8	186.4	2.8	42.1	0.3	11.4
Grimes	118.3	52.1	42.5	2.0	20.1	...	1.7
Hardin	378.2	201.2	115.1	7.6	45.2	...	9.1
Harris	229.2	140.4	63.5	3.6	18.4	...	3.2
Harrison	435.7	225.3	162.9	8.1	28.1	1.7	9.5
Henderson	128.8	27.6	45.1	2.1	53.4	...	0.6
Houston	627.7	395.1	166.2	11.7	43.9	0.6	10.1
Jasper	708.4	434.7	207.0	4.4	45.7	1.5	15.1
Jefferson[1]	123.2	62.5	45.0	0.2	13.5	...	2.0
Leon	190.0	27.5	111.2	0.9	46.6	...	3.7
Liberty	548.0	168.8	275.8	3.5	88.5	...	11.5
Madison	69.1	11.2	42.1	0.1	13.5	...	2.1
Marion	253.4	137.2	89.1	2.6	20.8	1.1	2.6
Montgomery	717.8	494.7	152.4	7.1	45.4	3.3	14.9
Morris	62.9	23.2	31.1	1.0	5.8	0.4	1.4
Nacogdoches	585.1	358.8	177.7	2.8	39.4	...	6.4
Newton	624.7	356.3	184.6	7.6	59.6	...	16.6
Orange	184.1	89.4	60.3	5.4	22.1	0.4	6.6
Panola	447.0	252.4	132.5	15.5	20.6	0.7	25.4
Polk	623.9	450.7	120.0	5.5	40.5	...	7.3
Red River	300.3	99.5	142.8	1.6	47.6	...	8.8
Rusk	385.6	226.1	119.1	5.2	31.0	0.4	3.9
Sabine	463.2	347.7	92.9	1.8	14.2	...	6.6
San Augustine	349.2	224.9	87.4	2.6	25.8	...	8.5
San Jacinto	409.7	267.4	99.2	4.8	28.9	0.7	8.6
Shelby	516.1	310.2	143.2	7.0	49.9	...	5.8
Smith	234.4	92.0	89.0	2.9	39.3	0.3	10.9
Titus[2]	152.2	40.7	78.6	1.2	21.9	...	9.8
Trinity	495.9	369.1	84.8	7.5	30.4	...	4.1
Tyler	567.3	308.6	195.6	4.8	46.2	...	12.1
Upshur[3]	293.7	142.0	112.4	4.7	29.2	0.7	4.7
Van Zandt	92.6	7.3	53.6	0.6	30.7	...	0.5
Walker	413.6	305.5	77.4	2.9	22.8	0.3	4.8
Waller	125.7	81.0	30.9	...	11.8	...	2.0
Wood	159.9	75.1	58.1	1.5	20.4	...	4.7
All counties	14232.0	7920.7	4526.0	161.5	1317.0	12.8	294.1

[1] Chambers included in Jefferson.

[2] Camp and Franklin included in Titus.

[3] Gregg included in Upshur.

Table 31 – *Number of live trees on timberland by detailed species and diameter class, East Texas, 1986*

Species	All classes	1.0-2.9	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 & larger
	Diameter class (inches at breast height)												
	Thousand trees												
Longleaf pine	18068	4340	6423	2115	1242	1243	1185	867	439	140	49	23	...
Slash pine	111694	51309	25296	15698	11856	4375	2012	806	288	...	33	22	...
Shortleaf pine	409479	154895	92349	46429	40404	27830	21699	13580	7315	3273	1198	499	9
Loblolly pine	1343624	653959	289893	164302	84445	49119	36767	25677	17314	9941	5861	6010	336
Redcedar	41329	25221	9375	2893	2043	898	344	318	116	71	25	26	...
Cypress	10197	2130	1133	2347	1950	710	609	419	354	200	120	217	8
Total softwoods	1934392	891853	424470	233784	141939	84175	62616	41667	25826	13625	7286	6798	353
Select white oaks	103024	56422	19216	9008	6602	3732	2292	1850	1589	890	586	774	64
Select red oaks	82871	56914	8743	5994	3129	2598	1508	1380	617	592	492	721	184
Other white oaks	371422	188676	63691	45757	27339	18453	11075	6232	4491	2380	1551	1582	194
Other red oaks	592310	346312	91931	46031	35076	24944	16437	11292	7883	4729	2851	4153	671
Sweet pecan	2220	1145	...	401	183	184	120	72	33	41	...	41	...
Water hickory	16285	8268	3376	1115	1392	993	422	396	144	47	60	58	14
Other hickories	166458	108032	26191	12178	7301	5972	3260	1864	860	466	221	109	4
Persimmon	42875	31895	9678	672	303	223	49	45	...	...	10	...	...
Hard maple	7114	4881	1256	352	188	171	181	23	28	27	...	7	...
Soft maple	131969	88444	25666	9729	4860	1645	752	450	148	166	21	87	...
Boxelder	5253	3867	532	466	142	208	27	...	...	...	10	...	...
Beech	6058	2020	1030	274	358	507	444	478	360	227	117	223	19
Sweetgum	925876	597196	162506	77795	40514	23904	11506	6163	2780	1505	1053	869	85
Blackgum	237375	171008	33024	14852	8019	3780	2569	1737	1161	481	236	436	72
Other gums/tupelos	11318	2220	4806	1263	793	369	568	533	325	236	107	93	4
White ash	58479	46254	5663	2483	904	1116	784	626	349	191	45	60	2
Other ashes	101907	75732	11501	5549	3477	1972	1564	918	481	391	155	145	23
Sycamore	5007	2208	1069	331	446	329	173	84	103	17	40	176	31
Cottonwood	2057	543	543	...	114	242	223	84	96	118	51	17	26
Basswood	5139	2690	2183	...	...	108	...	69	28	36	20	6	...
Magnolia	10465	8036	1065	150	113	315	192	242	170	109	20	50	4
Sweetbay	42096	29170	8364	1884	1273	775	352	145	47	37	41	8	...
Willow	9674	6850	1162	453	316	459	152	130	67	26	...	51	8
Black walnut	2434	1698	...	88	242	223	121	40	...	...	10	9	3
Black cherry	15883	11604	2817	788	548	85	29	...	...	12	...	...	...
American elm	46059	28732	8847	3601	1645	1327	714	536	255	137	119	131	13
Other elms	457972	342695	68321	23109	11827	5803	2978	1681	912	360	157	122	8
River birch	13429	7180	1609	2216	1152	378	355	174	146	88	52	79	...
Hackberry	69726	33730	19732	7217	3965	1787	1325	934	518	288	111	121	...
Other locusts	10494	6930	1066	863	671	370	383	68	69	51	10	15	...
Sassafras	78064	62005	12695	2481	557	170	97	42	17	...	...	...	...
Dogwood	144129	116289	24732	2562	494	51	...	...	...	...	...	...	...
Holly	87452	64463	15481	5061	1584	535	245	20	54	...	10	...	...
Other commercial	67181	50121	12099	3148	1221	257	175	69	38	53	...	...	...
Total hardwoods	3930077	2564228	650599	287874	166748	103986	61071	38376	23765	13701	8156	10142	1430
Noncommercial	658800	484456	117775	35896	11330	4601	2471	1112	636	397	50	76	...
All species	6523269	3940537	1192844	557553	320018	192762	126158	81155	50227	27723	15493	17016	1783

Table 32 – *Number of growing-stock trees on timberland by detailed species and diameter class, East Texas, 1986*

Species	All classes	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 & larger
	Diameter class (inches at breast height)										
	Thousand trees										
Longleaf pine	7079	2015	1187	1208	1185	844	439	127	49	23	...
Slash pine	32925	14376	11536	3881	1983	806	288	...	33	22	...
Shortleaf pine	152323	39819	38319	27280	21489	13325	7248	3192	1156	490	5
Loblolly pine	382089	154105	80778	47123	35984	25434	17156	9779	5750	5707	274
Redcedar	4846	2278	1358	622	221	223	97	26	12	9	...
Cypress	6233	2215	1642	630	582	379	322	164	120	170	8
Total softwoods	585495	214808	134819	80745	61444	41010	25549	13288	7121	6422	288
Select white oaks	23120	7172	5927	3448	2059	1578	1247	711	488	447	42
Select red oaks	13752	4742	2532	2229	1212	1148	454	471	346	504	113
Other white oaks	77527	27995	19487	13298	7179	4011	2742	1386	771	636	21
Other red oaks	114934	34507	27930	20096	11448	8352	5498	3149	1765	1994	194
Sweet pecan	561	96	119	126	88	72	15	13	...	33	...
Water hickory	2725	539	593	863	279	229	95	37	31	53	6
Other hickories	19201	6503	4461	4066	2034	1272	499	195	109	61	...
Persimmon	691	268	229	124	49	22	...	...	...	...	...
Hard maple	390	263	...	82	31	...	14	...	...	...	...
Soft maple	9480	5465	2723	770	303	150	34	27	...	8	...
Boxelder	681	365	142	174	...	...	...	...	...	...	...
Beech	1541	122	214	237	271	298	206	112	48	32	...
Sweetgum	130667	57784	34230	20038	9450	4944	1930	1035	753	453	50
Blackgum	22232	8442	6224	2994	1859	1245	813	306	141	208	...
Other gums/tupelos	2508	472	701	292	276	311	224	149	65	17	...
White ash	4197	1570	646	724	578	366	184	91	11	27	...
Other ashes	9588	3148	2834	1374	908	721	267	239	54	34	9
Sycamore	1356	331	312	244	173	63	70	17	40	102	4
Cottonwood	945	...	114	242	223	84	96	118	51	12	4
Basswood	22	...	...	...	...	22	...	...	...	...	...
Magnolia	806	150	56	244	117	121	76	25	11	6	...
Sweetbay	2492	663	1066	454	244	41	16	...	...	8	...
Willow	1096	453	158	232	89	89	51	12	...	7	4
Black walnut	285	...	59	105	121	...	...	...	...	...	...
Black cherry	610	165	403	...	29	...	...	12	...	...	...
American elm	5676	2390	1128	828	543	391	167	110	64	52	4
Other elms	30092	14576	7692	4089	1690	1209	505	229	49	54	...
River birch	3044	1276	981	291	175	136	111	25	10	39	...
Hackberry	7490	3158	2031	979	538	328	261	128	19	47	...
Other locusts	1566	762	417	163	77	44	52	26	10	15	...
Sassafras	1955	1420	315	123	63	18	17	...	...	...	...
Dogwood	798	726	73	...	...	...	...	...	...	...	...
Holly	3419	2305	792	209	93	20	...	...	...	...	...
Other commercial	647	459	147	41	...	...	...	...	...	...	...
Total hardwoods	496094	188288	124736	79180	42202	27283	15645	8623	4836	4850	452
All species	1081589	403096	259555	159926	103646	68293	41194	21911	11957	11272	739

Table 33 – *Volume of growing-stock trees on timberland by species and diameter class, East Texas, 1986*

Species	All classes	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 & larger
	Diameter class (inches at breast height)										
	Million cubic feet										
Longleaf pine	108.0	6.4	8.0	16.3	25.1	23.5	16.6	6.8	3.3	1.9	...
Slash pine	239.5	39.4	73.2	50.5	40.6	22.7	10.4	...	1.5	1.3	...
Shortleaf pine	2275.6	111.9	277.2	388.3	471.2	423.5	313.3	166.8	81.7	41.3	0.4
Loblolly pine	5176.6	366.8	488.0	601.4	737.0	759.6	703.4	519.7	388.7	561.9	50.0
Redcedar	25.8	4.4	6.2	5.0	2.9	3.4	2.4	0.9	0.3	0.3	...
Cypress	95.1	4.3	14.9	9.0	9.7	10.9	12.5	8.1	7.6	16.6	1.5
Total softwoods	7920.7	533.2	867.5	1070.5	1286.5	1243.6	1058.7	702.3	483.1	623.3	51.9
Select white oaks	290.0	19.7	33.2	35.6	35.1	36.3	40.1	29.5	24.4	30.8	5.4
Select red oaks	205.7	12.8	13.6	21.8	20.6	27.5	13.9	19.0	18.1	41.4	17.1
Other white oaks	587.4	58.8	92.0	107.6	91.0	70.8	65.0	40.2	28.3	31.8	1.8
Other red oaks	1338.3	88.2	152.8	201.4	180.2	187.9	162.3	125.6	85.2	132.5	22.3
Sweet pecan	7.8	0.3	0.8	1.0	1.1	1.3	0.3	0.4	...	2.5	...
Water hickory	34.3	1.6	3.8	8.8	4.3	4.8	2.8	1.8	1.4	4.1	0.8
Other hickories	145.6	12.7	18.8	32.1	26.1	24.2	13.5	7.5	5.6	5.2	...
Persimmon	4.0	0.6	1.1	1.2	0.7	0.3	...	...	...	...	...
Hard maple	3.0	0.9	...	0.9	0.7	...	0.5	...	...	...	...
Soft maple	48.1	15.3	14.8	7.7	4.6	3.4	0.9	1.2	...	0.3	...
Boxelder	3.3	1.2	0.8	1.4	...	...	...	...	...	...	...
Beech	31.1	0.3	1.0	2.7	3.6	7.3	6.2	5.1	2.9	2.0	...
Sweetgum	1014.8	128.0	192.7	210.7	161.9	124.5	66.2	45.6	42.2	35.4	7.7
Blackgum	197.6	20.1	31.8	30.6	29.7	28.4	23.2	12.1	7.0	14.7	...
Other gums/tupelos	37.1	1.2	3.5	2.8	4.7	7.4	7.0	6.4	3.2	0.9	...
White ash	40.7	3.5	3.5	7.1	8.5	7.5	5.1	3.7	0.7	1.1	...
Other ashes	88.1	7.2	15.9	14.6	14.5	15.7	7.5	8.2	2.1	1.8	0.7
Sycamore	25.2	1.1	1.8	2.3	3.2	1.0	2.8	0.3	1.9	10.3	0.4
Cottonwood	33.8	...	1.4	4.2	7.8	3.3	4.7	7.0	3.5	1.2	0.7
Basswood	0.3	...	...	...	...	0.3	...	...	...	...	...
Magnolia	11.9	0.4	0.4	2.3	1.6	2.7	2.5	1.1	0.6	0.5	...
Sweetbay	18.3	2.0	6.5	4.0	3.6	1.0	0.5	...	...	0.7	...
Willow	8.7	1.0	0.4	1.4	1.3	1.5	1.6	0.5	...	0.5	0.6
Black walnut	2.5	...	0.4	0.7	1.4	...	...	...	...	...	...
Black cherry	4.5	0.3	3.2	...	0.5	...	...	0.5	...	...	...
American elm	49.1	5.1	5.9	6.8	7.5	8.6	4.5	3.6	2.8	3.1	1.2
Other elms	182.8	31.3	39.0	36.0	25.7	24.1	13.4	7.8	2.1	3.3	...
River birch	22.1	3.4	5.2	2.7	2.5	2.3	2.9	0.9	0.4	1.8	...
Hackberry	54.2	7.2	9.7	7.8	7.1	6.6	7.5	4.5	1.0	2.8	...
Other locusts	12.1	2.2	1.9	1.7	1.5	0.9	1.3	0.7	0.4	1.4	...
Sassafras	7.2	2.8	1.8	1.2	0.9	0.2	0.3	...	...	...	...
Dogwood	1.5	1.3	0.3	...	...	...	...	...	...	...	...
Holly	13.4	5.4	3.9	2.2	1.4	0.5	...	...	...	...	...
Other commercial	1.4	0.7	0.4	0.2	...	...	...	...	...	...	...
Total hardwoods	4526.0	436.5	662.1	761.5	653.4	600.2	[illegible]5	333.0	234.0	330.0	58.8
All species	12446.7	969.7	1529.6	1832.0	1939.9	1843.8	1515.2	1035.3	717.1	953.4	110.7

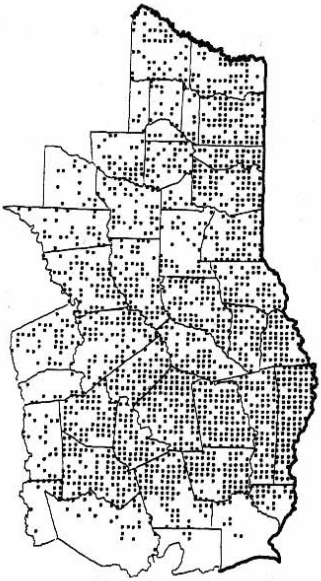
Table 34 – *Volume of growing stock in the saw-log portion of sawtimber trees on timberland by detailed species and diameter class, East Texas, 1986*

Species	All classes	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 & larger
	Diameter class (inches at breast height)								
	Million cubic feet								
Longleaf pine	85.6	13.1	22.7	22.2	16.0	6.5	3.2	1.9	...
Slash pine	110.8	40.7	36.7	21.1	9.7	...	1.4	1.3	...
Shortleaf pine	1734.7	322.5	432.7	401.8	299.1	160.6	78.1	39.5	0.4
Loblolly pine	4008.0	486.7	667.8	713.8	673.8	500.5	374.7	542.2	48.4
Redcedar	12.8	3.8	2.5	3.0	2.1	0.9	0.3	0.3	...
Cypress	68.4	6.4	7.8	9.8	11.7	7.8	7.5	15.9	1.5
Total softwoods	6020.3	873.2	1170.3	1171.5	1012.4	676.4	465.2	601.1	50.3
Select white oaks	175.9	...	28.3	31.2	34.9	26.8	22.0	27.3	5.4
Select red oaks	137.7	...	14.4	23.7	12.5	17.1	16.4	37.7	15.9
Other white oaks	291.4	...	76.6	64.2	58.1	36.3	26.0	28.4	1.7
Other red oaks	774.4	...	137.4	162.0	143.6	110.9	76.9	123.0	20.5
Sweet pecan	5.0	...	0.9	1.2	0.2	0.4	...	2.4	...
Water hickory	18.0	...	3.7	4.1	2.6	1.7	1.3	3.8	0.8
Other hickories	71.5	...	21.8	21.0	12.4	6.6	5.0	4.7	...
Persimmon	0.9	...	0.5	0.3	...	...	...	...	...
Hard maple	1.0	...	0.6	...	0.4	...	...	...	...
Soft maple	8.2	...	3.7	2.4	0.8	1.0	...	0.3	...
Beech	24.8	...	2.9	6.6	5.9	4.9	2.6	1.8	...
Sweetgum	401.9	...	113.3	105.9	61.3	42.1	38.9	33.2	7.3
Blackgum	99.7	...	22.4	24.4	21.1	11.3	6.8	13.8	...
Other gums/tupelos	25.3	...	3.2	6.2	6.1	5.7	3.1	0.9	...
White ash	22.7	...	6.9	6.5	4.5	3.2	0.6	1.0	...
Other ashes	40.5	...	10.3	12.8	6.3	7.0	1.8	1.7	0.6
Sycamore	18.3	...	2.4	0.9	2.5	0.2	1.9	10.1	0.4
Cottonwood	27.0	...	7.4	3.1	4.5	6.8	3.4	1.2	0.7
Basswood	0.3	...	...	0.3	...	...	...	...	...
Magnolia	7.9	...	1.2	2.5	2.0	1.1	0.6	0.5	...
Sweetbay	4.6	...	2.8	0.8	0.4	...	...	0.5	...
Willow	5.1	...	0.9	1.4	1.4	0.4	...	0.5	0.5
Black walnut	1.2	...	1.2	...	...	...	...	...	...
Black cherry	1.0	...	0.5	...	...	0.5	...	...	...
American elm	26.6	...	5.8	7.6	3.6	3.0	2.5	3.0	1.2
Other elms	65.5	...	21.1	20.8	11.6	7.1	2.1	2.8	...
River birch	8.6	...	1.8	1.8	2.3	0.6	0.3	1.8	...
Hackberry	24.2	...	5.7	5.3	6.2	3.5	1.0	2.5	...
Other locusts	5.5	...	1.2	0.9	1.1	0.7	0.4	1.2	...
Sassafras	1.1	...	0.7	0.2	0.3	...	...	...	...
Holly	1.6	...	1.2	0.4	...	...	...	...	...
Total hardwoods	2297.3	...	500.8	518.3	406.6	298.9	213.8	303.9	55.0
All species	8317.6	873.2	1671.1	1689.8	1418.9	975.3	679.0	905.0	105.3

Table 35 – *Volume of timber on timberland by species and class of timber, East Texas, 1986*

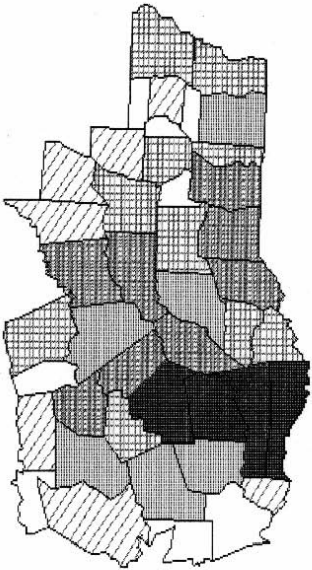
Species	All live	Growing stock	Rough	Rotten
	Million cubic feet			
Longleaf pine	110.2	108.0	2.3	...
Slash pine	250.3	239.5	10.8	...
Shortleaf pine	2320.0	2275.6	41.8	2.5
Loblolly pine	5274.9	5176.6	91.7	6.6
Redcedar	35.4	25.8	9.6	...
Cypress	104.1	95.1	5.3	3.7
Total softwoods	8094.9	7920.7	161.5	12.8
Select white oaks	338.7	290.0	37.9	10.8
Select red oaks	248.6	205.7	29.5	13.4
Other white oaks	828.7	587.4	204.4	37.0
Other red oaks	1751.5	1338.3	316.4	96.8
Sweet pecan	10.9	7.8	3.1	...
Water hickory	46.7	34.3	11.2	1.2
Other hickories	204.9	145.6	48.1	11.1
Persimmon	6.1	4.0	1.4	0.6
Hard maple	7.2	3.0	2.2	2.1
Soft maple	83.2	48.1	27.5	7.5
Boxelder	4.4	3.3	0.9	0.2
Beech	55.9	31.1	11.5	13.3
Sweetgum	1211.4	1014.8	157.9	38.7
Blackgum	262.1	197.6	48.1	16.3
Other gums/tupelos	56.2	37.1	12.7	6.3
White ash	55.7	40.7	11.3	3.7
Other ashes	119.1	88.1	24.2	6.8
Sycamore	33.3	25.2	5.9	2.3
Cottonwood	35.4	33.8	...	1.6
Basswood	3.6	0.3	1.0	2.3
Magnolia	20.8	11.9	4.0	4.9
Sweetbay	29.1	18.3	8.6	2.2
Willow	14.5	8.7	4.6	1.2
Black walnut	5.3	2.5	2.7	0.1
Black cherry	6.8	4.5	2.3	...
American elm	68.2	49.1	17.7	1.4
Other elms	253.8	182.8	67.2	3.7
River birch	31.4	22.1	8.4	1.0
Hackberry	101.2	54.2	42.2	4.9
Other locusts	18.0	12.1	5.2	0.7
Sassafras	10.4	7.2	3.2	...
Dogwood	4.6	1.5	2.9	0.2
Holly	23.5	13.4	8.8	1.3
Other commercial	8.4	1.4	6.6	0.5
Total hardwoods	5959.5	4526.0	1139.4	294.1
Noncommercial	177.6	...	177.6	...
All species	14232.0	12446.7	1478.4	306.9

EAST TEXAS TIMBERLAND PLOT LOCATIONS



TOTAL TIMBERLAND BY COUNTY

(IN THOUSAND ACRES)

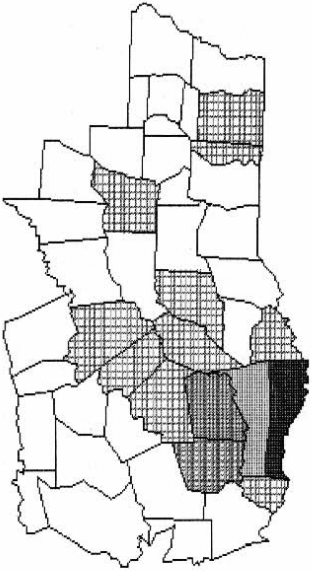


BELOW 100 | 100 TO 200 | 200 TO 300
300 TO 400 | 400 TO 500 | OVER 500

PERCENT TIMBERLAND BY COUNTY

PERCENT TIMBERLAND BY COUNTY

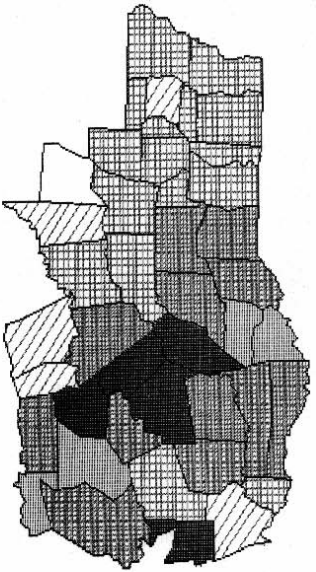
LONGLEAF/SLASH FOREST TYPE



0
1 TO 5
5 to 10
10 TO 15
15 TO 20

PERCENT TIMBERLAND BY COUNTY

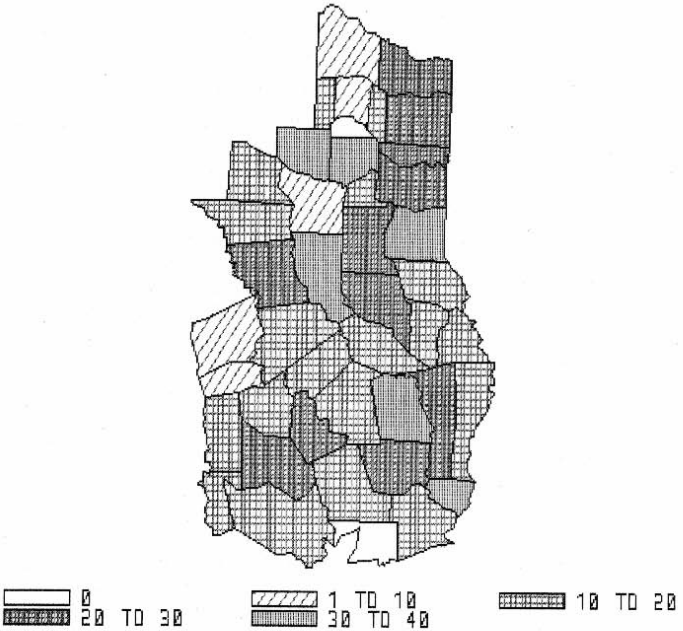
LOBLOLLY/SHORTLEAF FOREST TYPE



0
1 TO 15
15 TO 30
30 TO 45
45 TO 60
60 TO 70

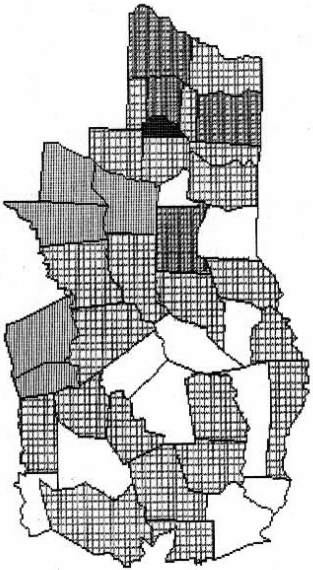
PERCENT TIMBERLAND BY COUNTY

DAK/PINE FOREST TYPE



PERCENT TIMBERLAND BY COUNTY

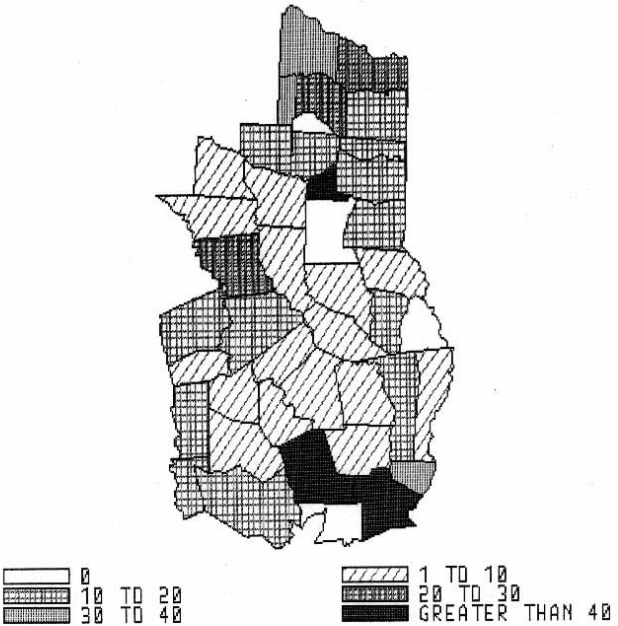
OAK/HICKORY FOREST TYPE



1 TO 20
20 TO 40
40 TO 60
60 TO 80
80 TO 100

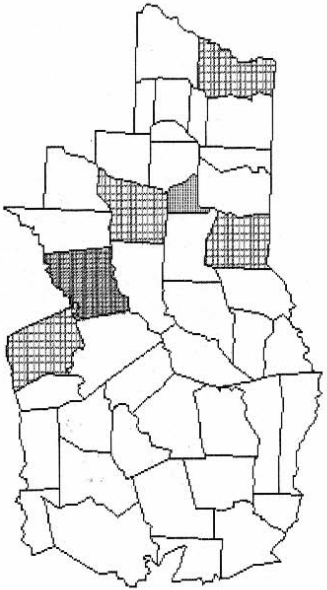
PERCENT TIMBERLAND BY COUNTY

OAK/GUM/CYPRESS FOREST TYPE



PERCENT TIMBERLAND BY COUNTY

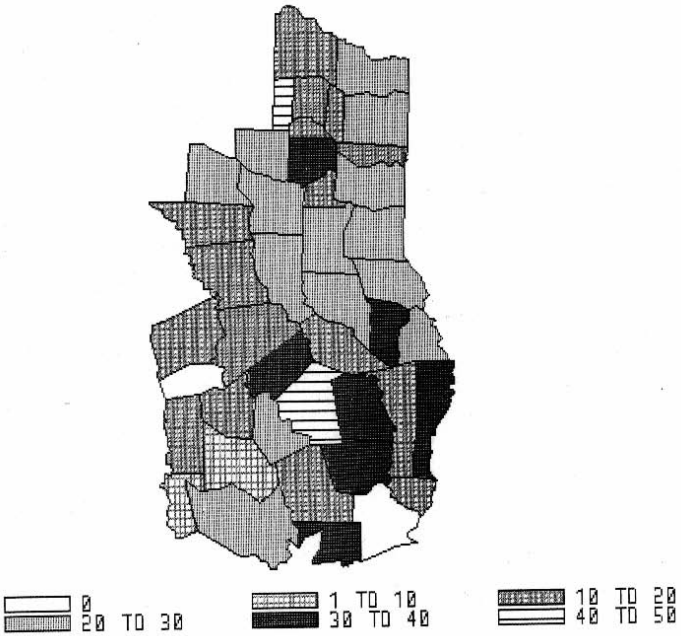
ELM/ASH/COTTONWOOD FOREST TYPE



0 | 1 TO 5 | 5 TO 10 | 10 TO 15

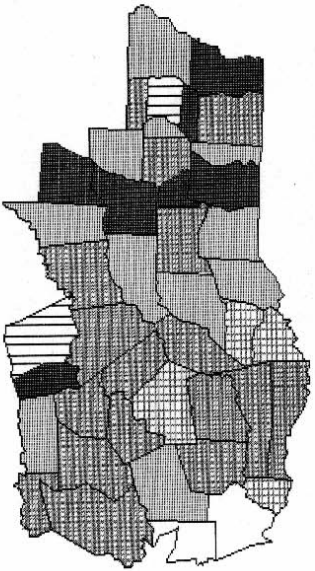
PERCENT TIMBERLAND BY STAND SIZE CLASS

SAPLINGS



PERCENT TIMBERLAND BY STAND SIZE CLASS

POLETIMBER



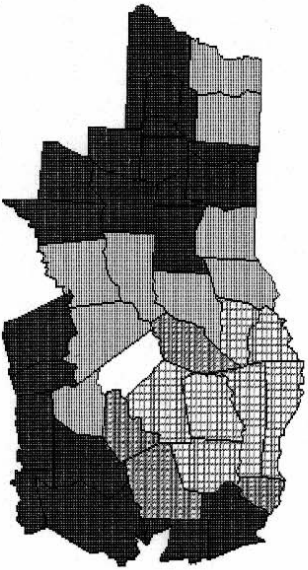
0
25 TO 35
1 TO 15
35 TO 45
15 TO 25
45 TO 50

PERCENT TIMBERLAND BY STAND SIZE CLASS

SAWTIMBER

PERCENT TIMBERLAND BY OWNERSHIP CLASS

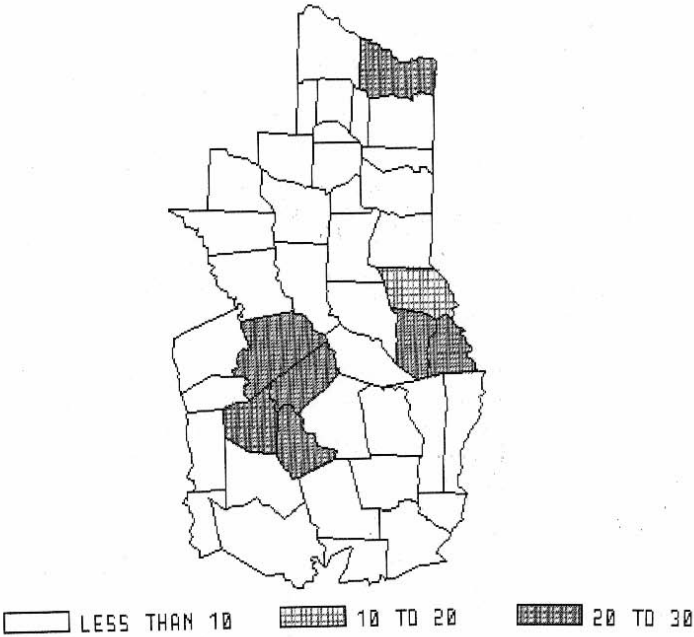
PRIVATE NONINDUSTRIAL



1 TO 20
20 TO 40
40 TO 60
60 TO 80
80 TO 100

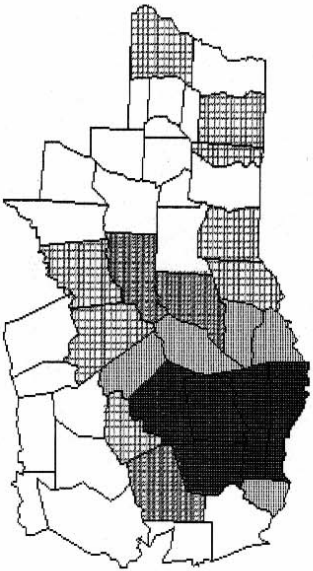
PERCENT TIMBERLAND BY OWNERSHIP CLASS

PUBLIC LAND



PERCENT TIMBERLAND BY OWNERSHIP CLASS

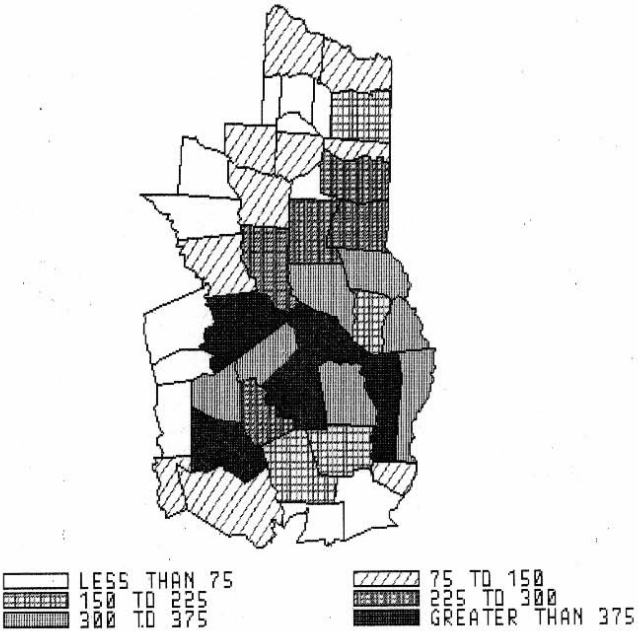
FOREST INDUSTRY



LESS THAN 15
15 TO 30
30 TO 45
45 TO 60
60 TO 80

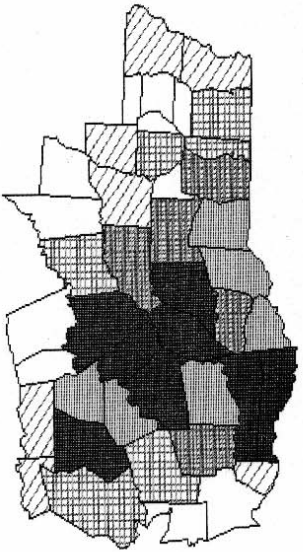
SOFTWOOD GROWING STOCK VOLUME BY COUNTY

MILLION CUBIC FEET



HARDWOOD GROWING STOCK VOLUME BY COUNTY

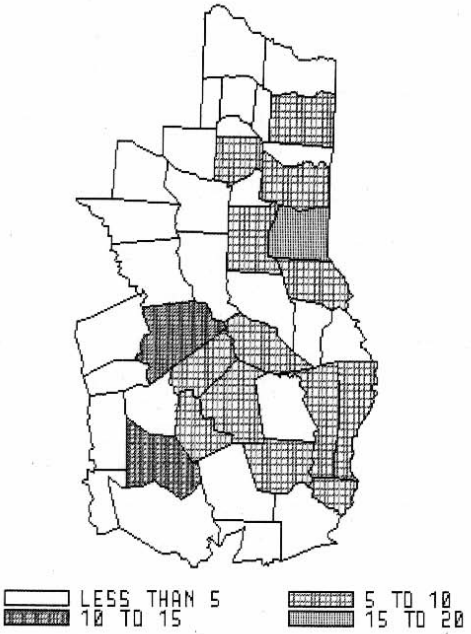
MILLION CUBIC FEET



LESS THAN 50
100 TO 200
250 TO 350
50 TO 100
200 TO 250
GREATER THAN 350

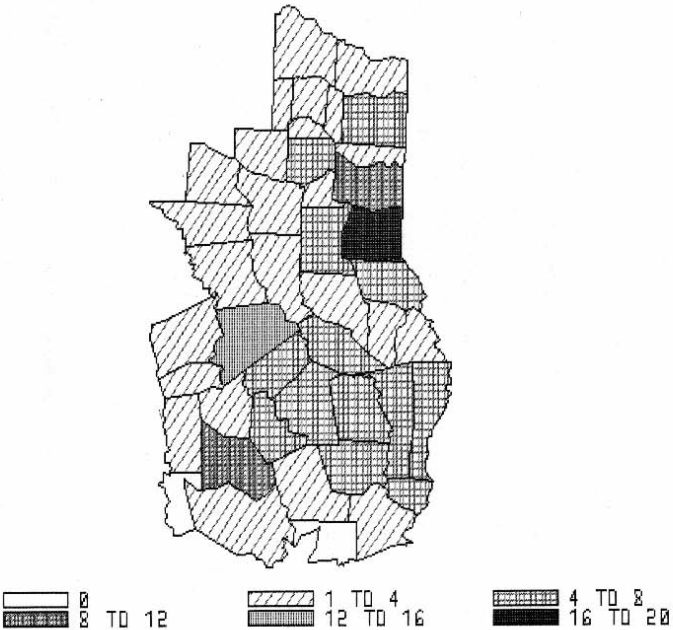
SOFTWOOD ROUGH & ROTTEN VOLUME BY COUNTY

MILLION CUBIC FEET



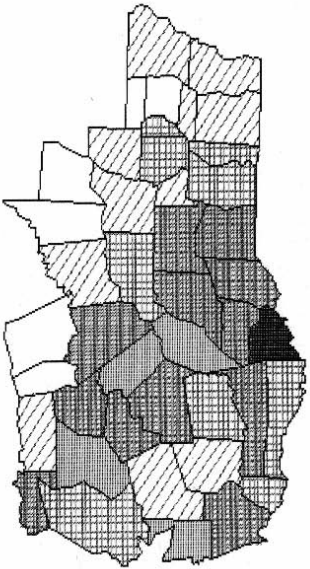
HARDWOOD ROUGH & ROTTEN VOLUME BY COUNTY

MILLION CUBIC FEET



AVERAGE SOFTWOOD GROWING STOCK VOLUME

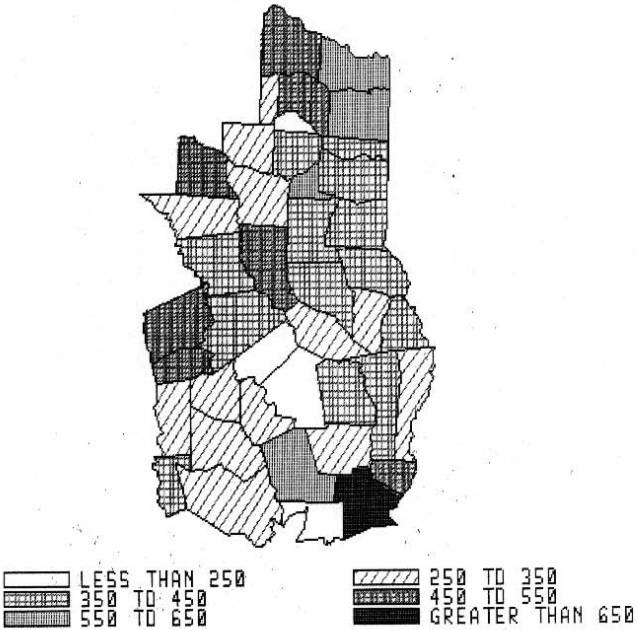
CUBIC FEET PER ACRE



LESS THAN 250 | 250 TO 500 | 500 TO 750
750 TO 1000 | 1000 TO 1250 | OVER 1250

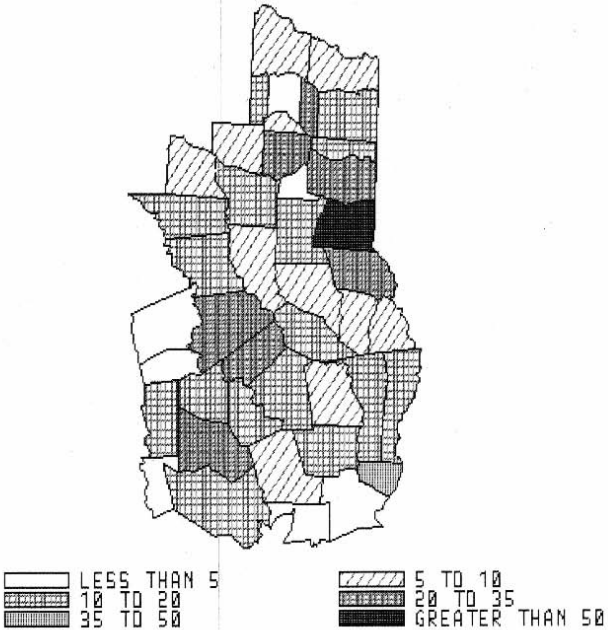
AVERAGE HARDWOOD GROWING STOCK VOLUME

CUBIC FEET PER ACRE



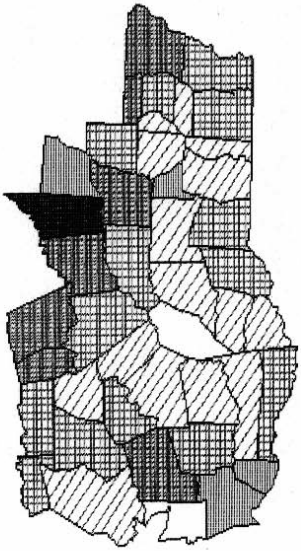
AVERAGE SOFTWOOD ROUGH & ROTTEN VOLUME

CUBIC FEET PER ACRE



AVERAGE HARDWOOD ROUGH & ROTTEN VOLUME

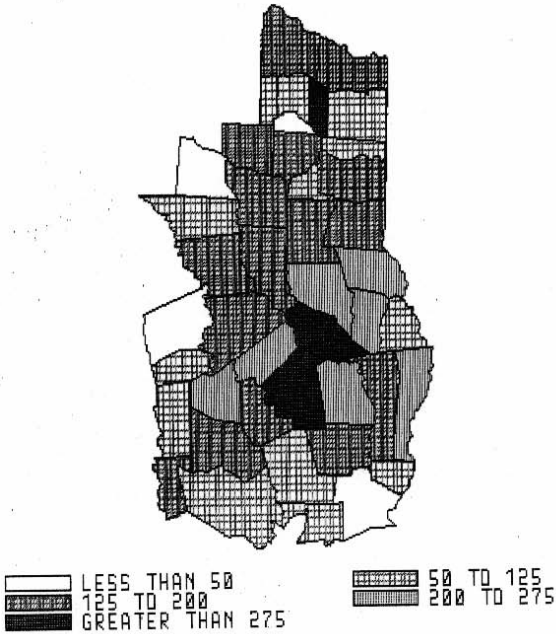
CUBIC FEET PER ACRE



LESS THAN 75
125 TO 175
225 TO 300
75 TO 125
175 TO 225
GREATER THAN 300

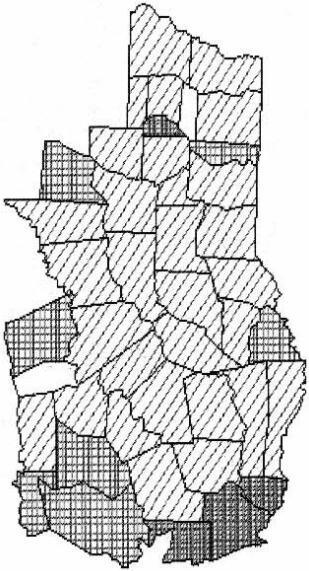
AVERAGE NUMBER LIVE TREES/ACRE BY COUNTY

SOFTWOOD



AVERAGE SOFTWOOD DBH BY COUNTY

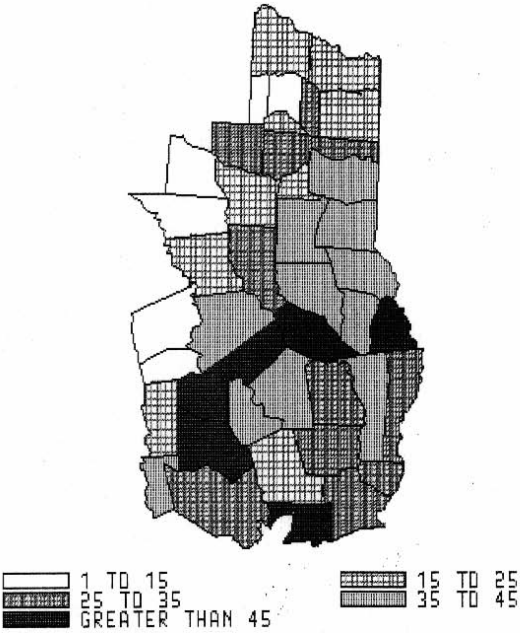
QUADRATIC MEAN DIAMETER



4 INCH CLASS
6 INCH CLASS
8 INCH CLASS
10 INCH CLASS

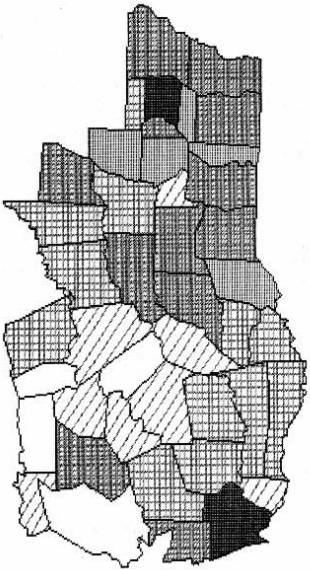
AVERAGE SOFTWOOD BASAL AREA/ACRE BY COUNTY

IN SQUARE FEET



AVERAGE NUMBER LIVE TREES/ACRE BY COUNTY

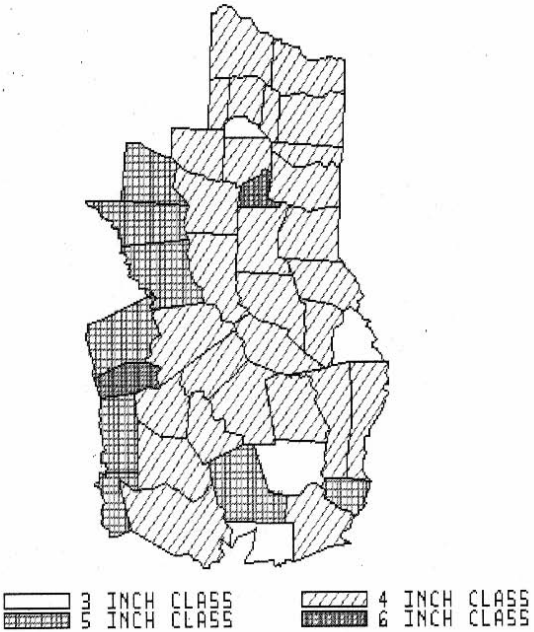
HARDWOOD



200 TO 275
275 TO 350
350 TO 425
425 TO 500
500 TO 575
575 TO 650

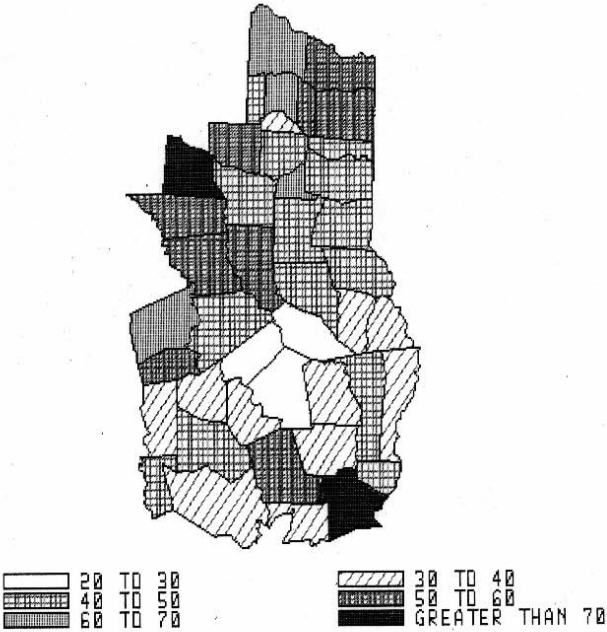
AVERAGE HARDWOOD DBH BY COUNTY

QUADRATIC MEAN DIAMETER



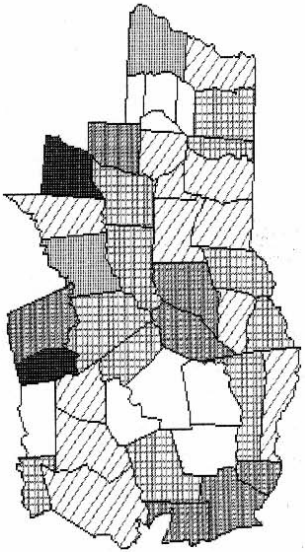
AVERAGE HARDWOOD BASAL AREA/ACRE BY COUNTY

IN SQUARE FEET



GROWTH/REMOVALS

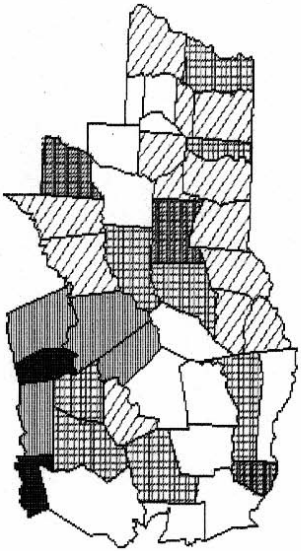
SOFTWOOD



0.5 TO 0.74
0.74 TO 0.99
1.0 TO 1.49
1.50 TO 1.99
2.0 TO 2.99
GREATER THAN 3.0

GROWTH/REMOVALS

HARDWOOD



0.1 TO 0.99
1.50 TO 1.99
3.0 TO 3.99
1.0 TO 1.49
2.0 TO 2.99
GREATER THAN 4.0

Lang, Linda L. and Bertelson, Daniel F., Forest statistics for east Texas counties - 1986. Resourc. Bull. SO- 118 . New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station; 1987 . 66 p.

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

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

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