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Forest Statistics for Northeast 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 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.

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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 1.--The Forest Survey Regions of Texas.

Forest Statistics for Northeast Texas Counties - 1986

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INTRODUCTION

These tables were derived from data obtained during a 1986 inventory of 21 counties comprising the Northeast Unit of Texas (fig. 1). Henderson and Van Zandt counties have been added to the Northeastern Unit since the previous inventory of 1975. All comparisons of the 1975 and 1986 forest statistics made in this Bulletin account for this change. 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 BA 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 errors¹ for timberland, growing stock, and sawtimber, Northeast Texas, 1986

County	Timberland	Growing stock			Sawtimber volume
		Volume	Growth	Removals	
----- Percent -----					
Anderson	1.8	11.3	17.3	16.7	12.9
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
Harrison	2.7	8.9	8.7	12.1	10.5
Henderson	2.7	13.1	26.6	36.6	15.8
Marion	2.9	9.2	8.9	19.1	10.7
Morris	4.2	21.8	22.9	30.7	23.7
Nacogdoches	1.7	9.7	6.8	16.4	11.4
Panola	1.8	11.0	10.3	15.8	12.0
Red River	1.2	7.6	17.0	22.4	8.6
Rusk	2.7	12.7	12.7	17.0	15.1
Shelby	1.6	12.5	11.9	16.4	15.0
Smith	2.1	12.1	17.4	16.1	13.7
Titus ²	2.6	18.8	21.1	27.1	22.8
Upshur ³	2.6	12.7	12.4	18.6	14.7
Van Zandt	1.9	19.7	36.3	25.8	24.7
Wood	2.9	11.7	14.9	16.6	14.0
All counties	0.5	2.9	3.2	4.4	3.4

¹ By random-sampling formula.

² Camp and Franklin included in Titus.

³ Gregg included in Upshur.

HIGHLIGHTS

Timberland Area

The Northeastern Unit of Texas is 50 percent forested. Ninety-nine percent of the 4,930.1 thousand acres of forest land is classified as timberland capable of growing commercial crops of timber. The area of timberland rose by 1 percent from 4,855.5 thousand acres in 1975 to 4,898.8 thousand acres in 1986.

Nonindustrial private timberland increased by 1 percent to 3,964.6 thousand acres and accounts for 81 percent of the total timberland base. Forest industry timberland, including land under long-term lease, currently totals 746.8 thousand acres, an increase of 4 percent.

The total area of pine types dropped by 15 percent. Increases occurred in both the oak-pine (+5 percent) and the oak-hickory (+16 percent) forest types. Bottomland hardwood forests decreased by 6 percent.

Pine stands of artificial origin increased by 84 percent occupying 243.5 acres of timberland. An additional 225.2 thousand acres were regenerated artificially, but are classified according to actual stocking as oak-pine and hardwood forest types until pines outgrow hardwood competition.

Number of Trees

Stand tables show significant declines in the number of live softwood trees for the 4-inch through the 12-inch class. The hardwood stand table remained relatively stable, showing decreases in the 2- and 6-inch classes and increases in larger diameters.

Volume

Expansion of softwood volumes has slowed since the previous survey. The volume of softwood growing stock rose by 13 percent to 2,677.3 million cubic feet. This contrasts a 49 percent increase that occurred between 1965 and 1975 (excluding Henderson and Van Zandt counties). Softwood sawtimber volume increased by 35 percent to 12,024.5 million board

feet, compared to a 60 percent rise in 1975 (excluding Henderson and Van Zandt counties).

Hardwood volume increases were similar to those of the previous inventory. The volume of hardwood growing stock expanded by 18 percent and totaled 2,173.5 million cubic feet, while hardwood sawtimber volume increased by 26 percent to 6,271.0 million board feet.

The sound-wood volume of cull trees (rough and rotten trees) increased by 22 percent since 1975. Softwood cull volume represents 3 percent of the total all live softwood timber volume, while hardwood cull volume is 26 percent of the live hardwood timber volume.

Growth, Removals and Mortality

Average annual gross growth of softwood growing stock increased by 6 percent since 1975, from 185.6 million cubic feet to 195.9 million cubic feet. Average net annual growth of softwoods (average annual gross growth minus average annual mortality) increased by only 2 percent. Average annual mortality nearly doubled for softwoods, going from 6.4 million cubic feet to 12.7 million cubic feet. Average annual removals of softwood growing stock totaled 164.9 million cubic feet, an increase of 10 percent.

Average annual gross growth of hardwood growing stock decreased by 20 percent from 128.2 million cubic feet to 103.2 million cubic feet. Average net annual growth of hardwoods decreased by 27 percent. Average annual mortality increased from 10.0 million cubic feet to 17.3 million cubic feet. Average annual removals of hardwood growing stock totaled 63.9 million cubic feet, an increase of 80 percent.

Tables 1-25 were developed to provide comparability 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 annual net volume increase for the inter-survey 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.

CORE TABLES 1 - 25

Table 1--Area by county and land class, Northeast 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
Bowie	590.5	259.9	259.9	...	...	330.7
Camp	...	...	...	...	...	...
Cass	614.6	440.3	440.3	...	...	174.2
Cherokee	679.6	394.8	394.8	...	...	284.8
Franklin ⁴	...	...	...	...	...	...
Gregg ⁵	...	...	...	...	...	...
Harrison	585.1	389.1	389.1	...	...	196.0
Henderson	607.2	193.9	162.6	31.3	...	413.3
Marion	269.8	200.4	200.4	...	...	69.4
Morris	166.5	65.5	65.5	...	...	101.0
Nacogdoches	627.2	412.8	412.8	...	...	214.5
Panola	526.6	317.2	317.2	...	...	209.4
Red River	675.5	279.0	279.0	...	...	396.6
Rusk	600.1	294.0	294.0	...	...	306.1
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
Upshur ⁵	555.5	275.6	275.6	...	...	279.8
Van Zandt	550.0	105.3	105.3	...	...	444.7
Wood	445.4	183.1	183.1	...	...	262.3
All counties	9917.2	4930.1	4898.8	31.3	...	4987.2

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 Gregg included in Upshur.

Table 2--Area of timberland by county and ownership class, Northeast 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
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
Harrison	389.1	...	...	...	...	29.0	58.1	29.0	273.0
Henderson	162.6	...	...	...	...	...	93.8	...	68.8
Marion	200.4	...	...	...	...	30.4	12.1	24.3	133.6
Morris	65.5	...	...	...	...	...	6.5	13.1	45.8
Nacogdoches	412.8	17.9	6.0	...	...	137.6	29.9	...	221.3
Panola	317.2	...	...	...	...	79.3	5.7	5.7	226.6
Red River	279.0	...	...	...	...	49.6	99.2	43.4	86.8
Rusk	294.0	...	...	...	...	22.6	45.2	22.6	203.5
Shelby	349.4	61.7	...	...	...	54.8	27.4	...	205.5
Smith ³	256.2	...	...	6.2	...	...	93.7	31.2	125.0
Titus ⁴	191.9	...	...	...	...	...	22.1	7.4	162.4
Upshur ⁴	275.6	...	...	...	...	12.8	83.3	19.2	160.3
Van Zandt	105.3	...	...	...	...	...	30.1	...	75.2
Wood	183.1	...	...	11.4	...	...	51.5	22.9	97.3
All counties	4898.8	79.6	72.1	29.7	6.1	746.8	842.7	271.5	2850.4

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 Camp and Franklin included in Titus.

⁴ Gregg included in Upshur.

Table 3--Area of timberland by county and forest type group, Northeast 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
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	...
Harrison	389.1	...	...	23.2	92.9	92.9	122.0	58.1	...
Henderson	162.6	...	...	...	12.5	18.8	118.8	12.5	...
Marion	200.4	...	6.1	6.1	42.5	54.7	60.7	30.4	...
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	...
Panola	317.2	...	...	45.3	56.6	96.3	51.0	62.3	5.7
Red River	279.0	...	...	12.4	31.0	24.8	117.8	93.0	...
Rusk	294.0	...	...	...	90.5	67.8	135.7	...	...
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 ¹	191.9	...	...	...	22.1	14.8	110.7	44.3	...
Upshur ²	275.6	...	...	12.8	64.1	76.9	64.1	51.3	6.4
Van Zandt	105.3	...	...	...	...	15.0	82.7	7.5	...
Wood	183.1	...	...	...	34.3	63.0	57.2	28.6	...
All counties	4898.8	18.5	6.1	224.7	965.9	1067.9	1871.0	692.0	52.7

¹ Camp and Franklin included in Titus.² Gregg included in Upshur.

Table 4--Area of timberland by county and stand-size class, Northeast 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
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	...
Harrison	389.1	145.2	156.8	81.3	5.8
Henderson	162.6	56.3	50.0	31.3	25.0
Marion	200.4	103.2	60.7	36.4	...
Morris	65.5	26.2	26.2	13.1	...
Nacogdoches	412.8	203.4	119.6	89.7	...
Panola	317.2	152.9	79.3	85.0	...
Red River	279.0	136.4	93.0	49.6	...
Rusk	294.0	135.7	67.8	75.4	15.1
Shelby	349.4	178.1	89.1	82.2	...
Smith	256.2	68.7	106.2	68.7	12.5
Titus ²	191.9	73.8	73.8	44.3	...
Upshur ³	275.6	109.0	76.9	89.7	...
Van Zandt	105.3	37.6	45.1	22.6	...
Wood	183.1	63.0	63.0	40.1	17.2
All counties	4898.8	2165.0	1485.5	1131.4	116.9

¹ Timberland less than 16.7 percent stocked.² Camp and Franklin included in Titus.³ Gregg included in Upshur.

Table 5--Area of timberland by county and site class, Northeast 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
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
Harrison	389.1	11.6	98.7	156.8	116.2	5.8
Henderson	162.6	6.3	...	25.0	56.3	75.0
Marion	200.4	12.1	115.4	54.7	18.2	...
Morris	65.5	6.5	13.1	26.2	13.1	6.5
Nacogdoches	412.8	65.8	155.5	149.6	41.9	...
Panola	317.2	68.0	62.3	118.9	68.0	...
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
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 ¹	191.9	36.9	36.9	51.7	66.4	...
Upshur ²	275.6	44.9	96.2	121.8	12.8	...
Van Zandt	105.3	...	...	15.0	52.7	37.6
Wood	183.1	11.4	22.9	85.9	63.0	...
All counties	4898.8	564.6	1312.0	1679.2	1108.2	234.8

¹ Camp and Franklin included in Titus.

² Gregg included in Upshur.

Table 6--Area of timberland, by county and stocking classes of growing-stock trees, Northeast 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
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	...
Harrison	389.1	5.8	87.1	238.1	52.3	5.8
Henderson	162.6	...	6.3	31.3	100.1	25.0
Marion	200.4	6.1	30.4	121.5	42.5	...
Morris	65.5	...	19.6	39.3	6.5	...
Nacogdoches	412.8	17.9	89.7	215.4	89.7	...
Panola	317.2	...	73.6	192.6	51.0	...
Red River	279.0	6.2	24.8	117.8	130.2	...
Rusk	294.0	...	30.2	165.8	82.9	15.1
Shelby	349.4	20.6	75.4	157.6	95.9	...
Smith ¹	256.2	6.2	18.7	93.7	125.0	12.5
Titus ¹	191.9	...	22.1	73.8	96.0	...
Upshur ²	275.6	6.4	38.5	179.5	51.3	...
Van Zandt	105.3	...	...	45.1	60.2	...
Wood	183.1	...	22.9	74.4	68.7	17.2
All counties	4898.8	93.2	740.9	2460.9	1487.0	116.9

¹ Camp and Franklin included in Titus.

² Gregg included in Upshur.

Table 7--Area of timberland by forest type and ownership class, Northeast Texas, 1986

Forest type ¹	All ownerships	National forest	Other public	Forest industry	Forest industry- leased	Other private
----- Thousand acres -----						
Longleaf-slash pine	24.6	...	...	...	...	24.6
Loblolly-shortleaf pine	1190.6	47.1	17.7	254.4	...	871.4
Softwood total	1215.2	47.1	17.7	254.4	...	896.0
Oak-pine	1067.9	12.8	24.4	206.7	...	824.0
Oak-hickory	1871.0	19.7	47.6	191.4	...	1612.3
Oak-gum-cypress	692.0	...	12.2	94.3	...	585.5
Elm-ash-cottonwood	52.7	...	5.9	...	...	46.8
Hardwood total	3683.6	32.5	90.1	492.4	...	3068.6
All types	4898.8	79.6	107.8	746.8	...	3964.5

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 types.

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

Ownership class	All classes	Stocking class (percent)				
		> 130	100-130	60-100	16.7-60	< 16.7
----- Thousand acres -----						
National forest	79.6	13.7	...	53.1	12.8	...
Other public	107.8	...	29.9	48.4	23.9	5.7
Forest industry	746.8	24.2	171.5	394.2	151.0	5.9
Forest industry-leased	...	...	...	...	...	...
Other private	3964.5	55.2	539.5	1965.3	1299.2	105.3
All ownerships	4898.8	93.2	740.9	2460.9	1487.0	116.9

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

Forest type ¹	All classes	Stand-size class			Nonstocked areas
		Sawtimber	Poletimber	Sapling- seedling	
----- Thousand acres -----					
Longleaf-slash pine	24.6	18.5	...	6.1	...
Loblolly-shortleaf pine	1190.6	735.1	248.3	207.2	...
Softwood total	1215.2	753.6	248.3	213.3	...
Oak-pine	1067.9	532.2	209.4	320.5	5.9
Oak-hickory	1871.0	509.7	734.9	539.4	86.9
Oak-gum-cypress	692.0	334.4	287.2	52.5	17.8
Elm-ash-cottonwood	52.7	35.1	5.6	5.7	6.2
Hardwood total	3683.6	1411.5	1237.2	918.1	116.9
All types	4898.8	2165.0	1485.5	1131.4	116.9

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.

Table 10--Number of live trees on timberland by species and diameter class, Northeast Texas, 1986

Species	Diameter class (inches at breast height)												
	All classes	1.0- 2.9	3.0- 4.9	5.0- 6.9	7.0- 8.9	9.0- 10.9	11.0- 12.9	13.0- 14.9	15.0- 16.9	17.0- 18.9	19.0- 20.9	21.0- 28.9	29.0 & larger
----- Thousand trees -----													
Longleaf-slash pines	21530	17028	1694	287	804	582	563	355	175	...	33	8	...
Shortleaf-loblolly pine	672755	305740	149454	79525	50456	31228	24342	15376	8108	4505	2102	1751	168
Cypress	6041	2130	532	1062	849	487	353	219	180	73	50	105	...
Other softwoods	31207	19414	7594	2479	994	467	119	87	20	13	12	9	...
Total softwoods	731532	344311	159275	83353	53103	32764	25378	16037	8483	4591	2197	1873	168
Select white oaks	54930	32181	10715	3625	3339	1555	1127	639	699	425	320	282	23
Select red oaks	27416	17985	2332	2157	1321	1234	695	600	323	257	158	280	73
Other white oaks	221251	119705	35908	24380	15158	9784	6651	3478	2679	1423	965	1005	117
Other red oaks	248689	130333	46300	21379	16421	12053	7737	5275	3581	1967	1241	2036	365
Hickory	124307	82798	18287	9263	5216	4024	2215	1347	580	318	187	63	10
Hard maple	6749	4881	1256	194	135	132	93	23	28	...	...	7	...
Soft maple	54847	31157	15246	4813	2052	826	310	265	49	66	20	42	...
Beech	1030	548	...	274	86	35	...	22	...	15	10	39	...
Sweetgum	472747	300198	84994	40870	21584	13178	5568	3456	1266	788	450	371	23
Tupelo-blackgum	58258	39004	7468	4538	2889	1624	1268	574	390	240	57	176	31
Ash	92593	69605	11125	4021	2801	1817	1457	849	439	274	101	94	11
Cottonwood-aspen	944	...	...	...	114	242	223	62	96	118	51	12	26
Basswood	1713	1597	...	...	...	38	...	...	16	36	20	6	...
Black walnut	512	...	...	...	242	135	92	24	...	...	10	9	...
Other hardwoods	591026	428485	105193	28620	13967	6423	3677	2244	1348	506	244	299	19
Total hardwoods	1957012	1258479	338825	144135	85325	53100	31113	18857	11493	6432	3833	4721	699
Noncommercial	307314	218076	60719	17327	4956	2772	1790	766	457	362	42	47	...
All species	2995858	1820865	558820	244815	143384	88636	58282	35659	20433	11385	6072	6641	867

Table 1 - Number of growing-stock trees on timberland by species and diameter class, Northeast Texas, 1966

Species	Diameter class (inches at breast height)									
	All classes	1.0-	3.0-	4.9-	5.0-	6.9-	7.0-	8.9-	9.0-	10.9-
Longleaf-slash pines	20396	15931	1694	287	804	545	563	355	175	33
	498246	184628	108512	72203	48183	23695	15021	7965	4413	8
	3540	532	930	785	449	327	199	148	37	1564
	25108	15455	6344	1987	766	341	119	63	20	82
	130170	65702	31259	15952	8787	4100	1911	769	205	29
Total softwoods	547289	216546	116551	75406	50538	31274	24704	15639	8309	4462
	276495	153276	51009	33184	18571	11506	4488	2749	804	277
	21030	8760	3993	2543	2380	1445	923	447	304	10
	29479	14630	6735	2486	2413	1290	884	610	158	45
	204	...	...	...	59	53	92	62	96	7
Total hardwoods	787666	364323	165654	99947	65351	41503	21492	13678	7520	3901
	130170	65702	31259	15952	8787	4100	1911	769	205	29
	204	...	...	...	59	53	92	62	96	7
	917	14630	6735	2486	2413	1290	884	610	158	45
	29479	14630	6735	2486	2413	1290	884	610	158	45
All species										
1334955 580869 282205 175353 115889 72777 46197 29317 15828 8363 4223 3635 298										

Table 2 - Volume of growing stock on timberland by species and diameter class, Northeast Texas, 1966

Species	Diameter class (inches at breast height)									
	All classes	1.0-	3.0-	4.9-	5.0-	6.9-	7.0-	8.9-	9.0-	10.9-
Longleaf-slash pines	41.9	0.8	5.7	7.3	7.3	10.9	9.7	5.7	1.5	0.2
	2569.9	162.0	307.4	390.1	472.7	434.9	311.3	216.4	126.3	128.9
	51.4	2.0	10.8	6.7	5.5	6.3	5.8	2.0	3.7	8.6
	14.0	3.8	4.0	2.7	1.5	1.1	0.4	0.5	...	...
	14.0	3.8	4.0	2.7	1.5	1.1	0.4	0.5	...	...
Total softwoods	2677.3	168.6	327.9	406.9	490.5	452.0	323.2	219.0	131.5	137.7
	2569.9	162.0	307.4	390.1	472.7	434.9	311.3	216.4	126.3	128.9
	51.4	2.0	10.8	6.7	5.5	6.3	5.8	2.0	3.7	8.6
	14.0	3.8	4.0	2.7	1.5	1.1	0.4	0.5	...	...
	14.0	3.8	4.0	2.7	1.5	1.1	0.4	0.5	...	...
Select white oaks	125.7	9.5	17.5	14.9	16.2	12.5	18.3	13.8	13.2	8.3
	69.4	4.7	6.1	9.5	9.3	10.1	7.1	6.1	4.0	9.2
	336.1	31.0	51.0	57.3	53.7	43.7	39.0	23.9	19.6	16.4
	619.0	39.6	75.3	95.1	86.1	90.0	76.4	49.1	35.8	61.3
	107.6	10.2	14.2	25.4	18.3	17.0	8.1	6.2	3.6	3.8
Select red oaks	125.7	9.5	17.5	14.9	16.2	12.5	18.3	13.8	13.2	8.3
	69.4	4.7	6.1	9.5	9.3	10.1	7.1	6.1	4.0	9.2
	336.1	31.0	51.0	57.3	53.7	43.7	39.0	23.9	19.6	16.4
	619.0	39.6	75.3	95.1	86.1	90.0	76.4	49.1	35.8	61.3
	107.6	10.2	14.2	25.4	18.3	17.0	8.1	6.2	3.6	3.8
Total hardwoods	2273.5	216.7	344.6	393.2	326.1	292.1	213.6	144.1	99.6	123.3
	201.5	33.7	44.4	33.5	28.5	25.4	20.7	6.3	1.1	7.3
	1.9	...	0.4	0.4	1.1	2.7	4.7	7.0	3.5	0.7
	32.7	...	1.4	4.2	7.8	12.8	19.9	16.3	10.5	5.3
	72.9	5.2	13.4	13.3	13.5	9.8	7.7	5.5	2.1	1.7

Table 1-3-Volume of growing stock in the saw-log portion of sawtimber trees on timberland by species and diameter class, Northeast Texas, 1986															
Species	Diameter class (Inches at breast height)														
	All classes	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 & larger						
----- Million cubic feet -----															
Longleaf-slash pines	31.7	6.0	9.8	8.9	5.3	...	1.4	0.2	...						
Shortleaf-loblolly pine	1928.2	322.0	431.8	408.7	297.3	207.9	120.1	121.4	19.0						
Cypress	33.8	4.7	4.3	5.7	5.5	1.9	3.6	8.1	...						
Other softwoods	5.2	2.1	1.3	0.9	0.4	0.5	...	...	...						
Total softwoods	1998.9	334.7	447.2	424.2	308.4	210.4	125.2	129.8	19.0						
Select white oaks	73.8	13.2	10.8	15.9	12.6	12.1	7.7	1.5	...						
Select red oaks	42.9	6.8	8.6	34.5	21.3	17.7	14.3	8.8	3.3						
Other white oaks	172.1	44.6	39.2	6.4	5.5	3.6	17.7	14.3	0.6						
Other red oaks	352.0	65.4	77.7	66.5	43.4	33.2	56.5	9.2	0.8						
Hard maple	50.0	15.0	14.7	7.3	5.4	3.3	3.5	0.8	...						
Soft maple	2.5	0.7	1.7	0.4	...	...	...	...	...						
Beech	0.6	...	...	...	...	...	...	...	...						
Sweetgum	177.1	52.5	56.3	24.3	18.1	15.3	8.6	2.0	...						
Tupelo-blackgum	37.4	11.2	8.3	7.1	5.3	4.9	1.6	0.4	...						
Ash	33.6	9.8	10.9	4.2	6.8	3.4	0.7	0.5	...						
Cottonwood-aspen	25.9	7.4	2.5	4.5	6.8	3.4	0.7	0.6	...						
Black walnut	1.0	...	...	...	...	...	...	...	...						
Other hardwoods	75.8	22.9	21.8	17.5	5.5	1.0	6.6	0.5	...						
Total hardwoods	1045.1	250.5	252.6	188.7	129.4	91.8	113.1	19.1	38.1						
Table 1-4-Volume of sawtimber on timberland by species and diameter class, Northeast Texas, 1986															
Species	Diameter class (Inches at breast height)														
	All classes	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 & larger						
----- Million board feet -----															
Select white oaks	466.6	74.8	64.4	100.7	85.6	79.5	50.5	11.2	...						
Select red oaks	254.9	36.3	47.7	37.6	33.0	22.9	57.4	20.0	...						
Other white oaks	1028.2	241.9	227.8	208.5	133.5	115.9	96.9	3.7	...						
Other red oaks	2122.9	354.9	446.7	403.7	271.4	213.2	367.2	65.7	...						
Hickory	303.5	83.7	87.2	44.7	34.9	21.2	25.7	5.9	...						
Hard maple	2.8	...	...	...	...	...	...	...	...						
Soft maple	14.3	4.4	9.9	...	...	...	...	...	...						
Beech	4.2	...	...	...	...	...	...	...	...						
Sweetgum	1031.4	284.9	326.3	143.8	112.4	97.5	55.0	11.4	...						
Tupelo-blackgum	217.7	59.9	46.7	43.9	32.0	2.8	32.3	...	...						
Ash	193.0	53.3	63.5	23.7	27.9	12.3	9.8	2.5	...						
Cottonwood-aspen	175.1	56.7	17.9	29.7	43.0	19.9	3.7	4.1	...						
Black walnut	5.5	...	...	...	...	...	...	...	...						
Other hardwoods	451.0	130.0	127.5	107.4	34.7	6.5	41.5	3.4	...						
Total hardwoods	6271.0	1386.2	1465.6	1146.7	812.6	591.7	740.1	128.1	...						
Table 1-3-Volume of growing stock in the saw-log portion of sawtimber trees on timberland by species and diameter class, Northeast Texas, 1986															
Species	Diameter class (Inches at breast height)														
	All classes	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 & larger						
----- Million cubic feet -----															
Longleaf-slash pines	31.7	6.0	9.8	8.9	5.3	...	1.4	0.2	...						
Shortleaf-loblolly pine	1928.2	322.0	431.8	408.7	297.3	207.9	120.1	121.4	19.0						
Cypress	33.8	4.7	4.3	5.7	5.5	1.9	3.6	8.1	...						
Other softwoods	5.2	2.1	1.3	0.9	0.4	0.5	...	...	...						
Total softwoods	1998.9	334.7	447.2	424.2	308.4	210.4	125.2	129.8	19.0						
Select white oaks	73.8	13.2	10.8	15.9	12.6	12.1	7.7	1.5	...						
Select red oaks	42.9	6.8	8.6	34.5	21.3	17.7	14.3	8.8	3.3						
Other white oaks	172.1	44.6	39.2	6.4	5.5	3.6	17.7	14.3	0.6						
Other red oaks	352.0	65.4	77.7	66.5	43.4	33.2	56.5	9.2	0.8						
Hard maple	50.0	15.0	14.7	7.3	5.4	3.3	3.5	0.8	...						
Soft maple	2.5	0.7	1.7	0.4	...	...	...	...	...						
Beech	0.6	...	...	...	...	...	...	...	...						
Sweetgum	177.1	52.5	56.3	24.3	18.1	15.3	8.6	2.0	...						
Tupelo-blackgum	37.4	11.2	8.3	7.1	5.3	4.9	1.6	0.4	...						
Ash	33.6	9.8	10.9	4.2	6.8	3.4	0.7	0.5	...						
Cottonwood-aspen	25.9	7.4	2.5	4.5	6.8	3.4	0.7	0.6	...						
Black walnut	1.0	...	...	...	...	...	...	...	...						
Other hardwoods	75.8	22.9	21.8	17.5	5.5	1.0	6.6	0.5	...						
Total hardwoods	1045.1	250.5	252.6	188.7	129.4	91.8	113.1	19.1	38.1						

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 1-4-Volume of sawtimber on timberland by species and diameter class, Northeast Texas, 1986

Table 15--Volume of growing stock and sawtimber on timberland by county and species group, Northeast Texas, 1986

County	Growing stock						Sawtimber					
	All species	Softwood			Hardwood		All species	Softwood			Hardwood	
		Pine		Other	Soft ¹	Hard ²		Pine		Other	Soft ¹	Hard ²
		Planted	Natural					Planted	Natural			

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 volume greater than 0.50 such as oaks, hard maple, hickories, and green and white ash.

³ Camp and Franklin included in Titus.

⁴ Gregg included in Upshur.

Table 16--Volume of timber on timberland by class of timber and species group,
Northeast Texas, 1986

Class of timber	All species	Softwood			Hardwood	
		Pine Planted	Pine Natural	Other	Soft ¹	Hard ²
----- Million cubic feet -----						
Sawtimber trees:						
Saw-log portion	3044.0	99.1	1860.8	39.0	311.6	733.5
Upper-stem portion	355.7	11.4	164.6	5.9	59.4	114.5
Total	3399.8	110.5	2025.4	44.9	371.0	848.0
Poletimber trees	1451.0	77.7	398.3	20.5	438.2	516.3
All growing-stock trees	4850.8	188.2	2423.6	65.5	809.1	1364.4
Rough trees:						
Sawtimber size	409.0	4.6	38.0	4.2	89.8	272.4
Poletimber size	274.9	2.8	21.1	1.8	79.9	169.3
Total	683.8	7.4	59.1	5.9	169.6	441.7
Rotten trees:						
Sawtimber size	133.8	...	3.7	2.1	34.8	93.2
Poletimber size	10.5	...	...	0.1	4.8	5.6
Total	144.3	...	3.7	2.1	39.6	98.9
Salvable dead trees:						
Sawtimber size	24.1	0.3	10.7	3.0	4.4	5.7
Poletimber size	17.8	0.3	8.8	0.7	4.3	3.7
Total	41.9	0.7	19.5	3.7	8.7	9.4
All classes	5720.8	196.2	2506.0	77.2	1027.1	1914.3

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 volume 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, Northeast Texas, 1986

Ownership class	Live trees						Growing stock					
	All species	Softwood			Hardwood		All species	Softwood			Hardwood	
		Pine Planted	Natural	Other	Soft ¹	Hard ²		Pine Planted	Natural	Other	Soft ¹	Hard ²
----- Million cubic feet -----												
National forest	180.3	0.9	135.0	...	9.5	34.9	169.6	0.9	135.0	...	8.0	25.6
Other public	160.2	0.8	72.3	0.2	25.1	61.8	145.7	0.8	71.1	...	20.7	53.1
Forest industry	872.5	64.6	402.9	22.0	120.7	262.3	762.4	62.6	393.3	19.4	99.1	187.9
Forest industry-leased	...	...	...	...	...	...	...	...	...	...	...	...
Other private	4465.8	129.3	1876.3	51.3	863.0	1546.0	3773.1	123.9	1824.2	46.0	681.3	1097.7
All ownerships	5678.9	195.6	2486.5	73.5	1018.4	1905.0	4850.8	188.2	2423.6	65.5	809.1	1364.4

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 volume 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, Northeast Texas, 1986

County	Growing stock						Sawtimber					
	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 ----- 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
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
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
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
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
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
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
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 ³	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
Upshur ⁴	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
Wood	5.9	0.1	3.1	...	0.6	2.0	26.3	...	17.8	...	2.5	6.0
All counties	269.1	21.3	159.7	2.2	30.7	55.1	1240.9	79.5	843.1	7.7	89.5	221.0

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 volume greater than 0.50 such as oaks, hard maple, hickories, and green and white ash.

³ Camp and Franklin included in Titus.

⁴ Gregg included in Upshur.

Table 19--Average annual removals of growing stock and sawtimber by county and species group, Northeast Texas, 1986

County	Growing stock						Sawtimber					
	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 ----- Million board feet -----												
Anderson	6.5	0.7	3.3	...	0.5	2.0	25.7	2.5	15.3	...	1.6	6.3
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
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
Marion	11.5	0.8	8.5	...	0.6	1.6	42.7	2.5	35.2	...	1.4	3.6
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
Panola	20.7	4.5	12.0	...	1.9	2.3	77.1	13.8	49.7	...	5.7	7.9
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
Shelby	18.7	0.9	14.6	...	0.9	2.4	67.6	2.6	56.6	...	2.8	5.7
Smith ³	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
Upshur ⁴	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
Wood	5.2	...	2.0	...	0.9	2.3	21.4	...	9.1	...	3.4	8.9
All counties	228.2	31.9	132.8	0.3	21.9	41.4	806.0	105.7	516.4	1.0	55.2	127.6

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 volume greater than 0.50 such as oaks, hard maple, hickories, and green and white ash.

³ Camp and Franklin included in Titus.

⁴ Gregg included in Upshur.

Table 20--Average net annual growth and average annual removals of growing stock on timberland, Northeast Texas, 1986

Species	Growth	Removals
----- Million cubic feet -----		
Yellow pines	181.0	164.6
Other softwoods	2.2	0.3
Total softwoods	183.2	164.9
Select white-red oaks	10.6	5.9
Other white-red oaks	37.3	29.2
Hickory	2.6	4.1
Hard maple	...	0.1
Sweetgum	22.0	15.8
Ash-walnut-black cherry	3.1	1.5
Other hardwoods	10.2	6.7
Total hardwoods	85.9	63.3
All species	269.1	228.2

Table 21--Average net annual growth and average annual removals of sawtimber on timberland, Northeast Texas, 1986

Species	Growth	Removals
----- Million board feet -----		
Yellow pines	922.7	622.1
Other softwoods	7.7	1.0
Total softwoods	930.4	623.1
Select white-red oaks	38.2	20.3
Other white-red oaks	157.7	91.5
Hickory	10.2	10.7
Sweetgum	49.4	38.9
Ash-walnut-black cherry	12.5	4.8
Other hardwoods	42.4	16.6
Total hardwoods	310.5	182.8
All species	1240.9	806.0

Table 22--Average annual mortality of growing stock and sawtimber on timberland by species, Northeast Texas, 1986

Species	Growing stock	Sawtimber
- Million cubic feet - - Million board feet -		
Yellow pines	12.3	35.6
Other softwoods	0.4	1.6
Total softwoods	12.7	37.2
Select white-red oaks	0.8	1.8
Other white-red oaks	6.1	17.0
Hickory	1.5	3.3
Sweetgum	3.4	7.2
Ash-walnut-black cherry	0.4	0.6
Other hardwoods	5.2	10.8
Total hardwoods	17.3	40.8
All species	30.1	77.9

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

Ownership class	Growth						Removals					
	All species	Softwood			Hardwood		All species	Softwood			Hardwood	
		Pine Planted	Pine Natural	Other	Soft ¹	Hard ²		Pine Planted	Pine Natural	Other	Soft ¹	Hard ²
----- Million cubic feet -----												
National forest	6.7	0.1	5.7	...	0.4	0.6	3.4	...	3.3	...	...	0.2
Other public	5.0	...	2.6	...	0.5	2.0	3.3	...	1.1	...	1.1	1.1
Forest industry	46.4	9.4	24.4	0.1	4.5	8.2	45.4	19.4	16.1	0.1	3.1	6.7
Other private	210.9	11.8	127.0	2.3	25.4	44.4	176.0	12.4	112.3	0.2	17.8	33.3
All ownerships	269.1	21.3	159.7	2.2	30.7	55.1	228.2	31.9	132.8	0.3	21.9	41.4

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 volume 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, Northeast Texas, 1986

Ownership class	Growth						Removals					
	All species	Softwood			Hardwood		All species	Softwood			Hardwood	
		Pine Planted	Natural	Other	Soft ¹	Hard ²		Pine Planted	Natural	Other	Soft ¹	Hard ²
----- Million board feet -----												
National forest	53.0	...	48.8	...	0.6	3.6	16.2	...	16.2	...	...	...
Other public	23.3	...	15.3	...	0.3	7.7	12.2	...	5.0	...	3.1	4.0
Forest industry	219.0	31.1	132.8	1.6	15.4	38.2	167.8	73.0	69.9	0.6	8.4	16.0
Other private	945.5	48.5	646.3	6.1	73.2	171.5	609.8	32.7	425.3	0.4	43.7	107.6
All ownerships	1240.9	79.5	843.1	7.7	89.5	221.0	806.0	105.7	516.4	1.0	55.2	127.6

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 volume 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, Northeast Texas, 1986

Species	All grades	Grade 1	Grade 2	Grade 3	Grade 4
----- Million board feet -----					
Yellow pines	11820.2	1349.7	1893.4	8577.1	...
Cypress	178.5	13.2	87.2	78.1	...
Redcedar	25.7	25.7	...	...	...
Total softwoods	12024.5	1388.6	1980.6	8655.2	...
Select white-red oaks	721.5	42.4	112.1	328.1	238.8
Other white-red oaks	3151.1	124.8	397.8	1323.9	1304.6
Hickory	303.5	18.6	30.3	135.5	119.0
Hard maple	2.8	...	...	...	2.8
Sweetgum	1031.4	37.7	186.5	437.0	370.2
Tupelo and blackgum	217.7	26.0	57.0	93.2	41.4
Ash-walnut-black cherry	201.7	27.0	64.6	105.1	5.0
Other hardwoods	641.4	64.1	116.6	309.9	150.8
Total hardwoods	6271.0	340.6	964.9	2732.8	2232.6
All species	18295.4	1729.3	2945.5	11388.0	2232.6

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Table 26--Volume of softwood growing stock on timberland by forest type, Northeast 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	137.8	...	...	...	90.5	39.5	6.1	1.6	...
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	...	...
Harrison	225.3	...	...	8.6	139.3	45.0	17.5	14.9	...
Henderson	27.6	...	...	...	14.3	10.8	1.3	1.2	...
Marion	137.2	...	6.7	1.7	56.8	43.3	5.0	23.8	...
Morris	23.2	...	...	...	14.3	8.1	0.7	...	...
Nacogdoches	358.8	7.5	...	14.2	241.4	73.2	22.6	...	...
Panola	252.4	...	...	33.0	115.7	70.5	7.9	23.7	1.6
Red River	99.5	...	...	15.1	60.4	15.8	7.2	1.1	...
Rusk	226.1	...	...	...	172.7	40.4	13.1	...	...
Shelby	310.2	...	...	32.7	209.6	37.0	25.1	5.8	...
Smith ¹	92.0	15.5	...	6.6	46.8	7.0	16.2	...	...
Titus ¹	40.7	...	...	...	26.2	3.9	9.7	0.9	...
Upshur ²	142.0	...	...	14.9	85.9	30.4	5.9	4.2	0.8
Van Zandt	7.3	...	...	...	...	4.9	2.3	...	...
Wood	75.1	...	...	...	40.0	31.5	3.6	...	...
All counties	2677.3	32.4	6.7	141.6	1596.0	614.7	203.7	79.7	2.4

¹ Camp and Franklin included in Titus.² Gregg included in Upshur.

Table 27--Volume of hardwood growing stock on timberland by forest type, Northeast 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
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	...
Harrison	162.9	...	...	0.9	19.4	27.3	66.0	49.2	...
Henderson	45.1	...	...	...	0.5	3.6	31.8	9.2	...
Marion	89.1	...	...	1.3	8.1	31.1	22.2	26.3	...
Morris	31.1	...	...	...	1.3	15.5	3.1	11.1	...
Nacogdoches	177.7	1.8	...	...	23.7	45.6	77.2	29.5	...
Panola	132.5	...	...	0.9	12.9	46.6	22.4	46.7	3.0
Red River	142.8	...	...	0.4	4.4	10.7	59.3	68.0	...
Rusk	119.1	...	...	...	13.8	30.6	74.7	...	...
Shelby	143.2	...	...	5.1	25.1	15.1	64.7	33.1	...
Smith ¹	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	...
Upshur ²	112.4	...	...	...	16.2	24.2	9.6	58.7	3.7
Van Zandt	53.6	...	...	...	...	5.5	43.9	4.2	...
Wood	58.1	...	...	...	0.5	22.8	24.9	9.9	...
All counties	2173.5	1.8	...	9.9	178.9	429.4	934.7	559.9	58.9

¹ Camp and Franklin included in Titus.² Gregg included in Upshur.

Table 28--Volume of softwood growing stock in the saw-log portion of sawtimber trees on timberland by forest type, Northeast 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	98.8	...	...	...	60.8	32.3	4.5	1.3	...
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	...	...
Harrison	154.2	...	...	4.2	105.1	26.9	12.6	5.4	...
Henderson	21.0	...	...	...	12.2	7.5	0.6	0.8	...
Marion	99.0	...	4.0	0.6	43.2	32.7	2.7	15.8	...
Morris	14.7	...	...	...	7.3	6.7	0.7	...	...
Nacogdoches	264.1	6.2	...	0.8	187.5	56.2	13.4	...	...
Panola	194.7	...	...	11.2	95.0	60.0	5.2	21.8	1.6
Red River	71.7	...	...	11.5	43.9	11.9	3.4	1.0	...
Rusk	172.9	...	...	...	131.9	30.4	10.6	...	...
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 ¹	28.4	...	...	...	19.7	1.4	7.4	...	...
Upshur ²	110.2	...	...	11.3	69.3	21.8	4.0	3.1	0.7
Van Zandt	5.4	...	...	...	...	3.7	1.7	...	...
Wood	57.0	...	...	...	30.8	23.2	3.0	...	...
All counties	1998.9	24.0	4.0	68.2	1230.3	468.2	146.2	55.6	2.3

¹ Camp and Franklin included in Titus.² Gregg included in Upshur.

Table 29--Volume of hardwood growing stock in the saw-log portion of sawtimber trees on timberland by forest type, Northeast 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	75.8	...	...	...	2.3	13.4	22.6	28.4	9.1
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	...
Harrison	68.9	...	...	0.2	6.7	10.1	24.4	27.4	...
Henderson	20.5	...	...	...	0.4	0.8	12.7	6.6	...
Marion	33.3	...	...	0.3	1.4	12.1	3.2	16.3	...
Morris	16.7	...	...	...	...	10.0	0.3	6.3	...
Nacogdoches	83.2	1.3	...	...	8.5	22.7	35.6	15.1	...
Panola	68.7	...	...	0.3	3.9	26.3	10.6	25.3	2.3
Red River	68.9	...	...	...	1.3	5.0	27.8	34.8	...
Rusk	52.0	...	...	...	5.3	11.1	35.6	...	...
Shelby	70.1	...	...	3.1	11.0	5.2	29.5	21.3	...
Smith ¹	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	...
Upshur ²	50.4	...	...	...	8.9	10.8	2.8	26.0	1.9
Van Zandt	24.5	...	...	...	...	3.4	20.8	0.3	...
Wood	23.3	...	...	...	...	9.9	10.3	3.1	...
All counties	1045.1	1.3	...	4.5	71.1	196.8	424.3	303.5	43.7

¹ Camp and Franklin included in Titus.

² Gregg included in Upshur.

Table 30--Volume of timber on timberland by county, class of timber and species group, Northeast 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
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
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
Marion	253.4	137.2	89.1	2.6	20.8	1.1	2.6
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
Panola	447.0	252.4	132.5	15.5	20.6	0.7	25.4
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
Shelby	516.1	310.2	143.2	7.0	49.9	...	5.8
Smith ¹	234.4	92.0	89.0	2.9	39.3	0.3	10.9
Titus ¹	152.2	40.7	78.6	1.2	21.9	...	9.8
Upshur ²	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
Wood	159.9	75.1	58.1	1.5	20.4	...	4.7
All counties	5678.9	2677.3	2173.5	72.5	611.3	5.8	138.5

¹ Camp and Franklin included in Titus.

² Gregg included in Upshur.

Table 31--Number of live trees on timberland by detailed species and diameter class, Northeast Texas, 1986

Species	Diameter class (inches at breast height)												
	All classes	1.0- 2.9	3.0- 4.9	5.0- 6.9	7.0- 8.9	9.0- 10.9	11.0- 12.9	13.0- 14.9	15.0- 16.9	17.0- 18.9	19.0- 20.9	21.0- 28.9	29.0 & larger
	Thousand trees												
Slash pine	21530	17028	1694	287	804	582	563	355	175	...	33	8	...
Shortleaf pine	289302	116190	71407	30336	25592	17620	13372	8189	3769	1868	669	280	9
Loblolly pine	383454	189551	78047	49188	24865	13608	10970	7187	4339	2637	1433	1470	159
Redcedar	31207	19414	7594	2479	994	467	119	87	20	13	12	9	...
Cypress	6041	2130	532	1062	849	487	353	219	180	73	50	105	...
Total softwoods	731533	344312	159275	83353	53104	32763	25378	16037	8483	4591	2197	1873	168
Select white oaks	54930	32181	10715	3625	3339	1555	1127	639	699	425	320	282	23
Select red oaks	27416	17985	2332	2157	1321	1234	695	600	323	257	158	280	73
Other white oaks	221251	119705	35908	24380	15158	9784	6651	3478	2679	1423	965	1005	117
Other red oaks	248689	130333	46300	21379	16421	12053	7737	5275	3581	1967	1241	2036	365
Sweet pecan	1613	1145	...	192	127	...	88	24	18	13	...	7	...
Water hickory	4040	1695	600	409	638	393	118	126	15	13	9	12	10
Other hickories	118655	79958	17686	8662	4451	3631	2009	1197	547	292	178	44	...
Persimmon	28437	19884	7934	305	168	124	...	22	...	...	...	...	...
Hard maple	6749	4881	1256	194	135	132	93	23	28	...	...	7	...
Soft maple	50158	27855	14714	4347	1910	618	283	265	49	66	10	42	...
Boxelder	4688	3303	532	466	142	208	27	...	...	...	10	...	...
Beach	1030	548	...	274	86	35	...	22	...	15	10	39	...
Sweetgum	472747	300198	84994	40870	21584	13178	5568	3456	1266	788	450	371	23
Blackgum	57701	38447	7468	4538	2889	1624	1268	574	390	240	57	176	31
Other gums/tupelos	557	557	...	...	...	...	...	...	...	...	...	...	...
White ash	29987	23776	3397	810	560	422	426	303	161	65	36	29	2
Other ashes	62606	45829	7728	3211	2241	1395	1031	545	277	209	65	64	9
Sycamore	356	...	...	101	150	...	55	...	20	...	...	17	12
Cottonwood	944	...	...	...	114	242	223	62	96	118	51	12	26
Basswood	1713	1597	...	...	...	38	...	...	16	36	20	6	...
Magnolia	150	...	...	150	...	...	...	...	...	...	...	...	...
Sweetbay	292	...	...	131	57	77	28	...	...	...	...	...	...
Willow	2783	1107	588	212	167	365	91	130	49	26	...	41	8
Black walnut	512	...	...	...	242	135	92	24	...	...	10	9	...
Black cherry	8501	5689	1789	679	230	85	29	...	...	...	...	...	...
American elm	30799	19553	5695	2920	950	732	351	331	135	25	32	73	...
Other elms	290396	218528	44752	12888	7108	3333	1898	959	603	196	79	52	...
River birch	8517	3394	1074	1994	953	378	294	155	114	63	52	45	...
Hackberry	41075	22850	9207	3917	2378	992	564	557	340	144	71	55	...
Other locusts	7309	4636	1066	538	465	243	234	24	52	26	10	15	...
Sassafras	57238	45275	10578	1066	213	...	71	18	17	...	...	...	...
Dogwood	81081	65876	14004	930	220	51	...	...	...	...	...	...	...
Holly	9943	7821	1125	929	68	...	...	...	...	...	...	...	...
Other commercial	24152	13873	7380	1860	841	43	63	49	17	26	...	...	...
Total hardwoods	1957014	1258481	338825	144135	85325	53100	31113	18857	11493	6432	3833	4721	699
Noncommercial	307314	218076	60719	17327	4956	2772	1790	766	457	362	42	47	...
All species	2995861	1820868	558819	244815	143384	88636	58282	35659	20433	11385	6072	6641	867

Table 3 2--Number of growing stock trees on timberland by detailed species and diameter class, Northeast 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
----- Thousand trees -----											
Slash pine	2771	287	804	545	563	355	175	...	33	8	...
Shortleaf pine	95429	26068	24549	17227	13161	7960	3721	1839	627	271	5
Loblolly pine	109676	46134	23634	12712	10533	7062	4244	2573	1382	1292	110
Redcedar	3309	1987	766	341	119	63	20	13	...	...	...
Cypress	3007	930	785	449	327	199	148	37	50	82	...
Total softwoods	214193	75406	50538	31274	24704	15639	8309	4462	2092	1653	114
Select white oaks	10806	3370	3065	1440	1036	556	574	345	263	142	15
Select red oaks	5550	1594	1173	1104	536	471	235	174	91	141	31
Other white oaks	43084	15371	10774	7000	4282	2397	1611	809	512	319	9
Other red oaks	55792	16813	13850	9790	5560	4034	2624	1287	778	957	98
Sweet pecan	195	...	63	...	88	24	...	13	...	7	...
Water hickory	1279	409	340	354	92	38	15	13	...	12	6
Other hickories	13056	4781	2915	2682	1307	851	286	137	76	21	...
Persimmon	266	...	168	75	...	22	...	...	...	...	...
Hard maple	162	105	...	44	...	...	14	...	...	...	...
Soft maple	3929	2850	621	278	69	111	...	...	...	...	...
Boxelder	681	365	142	174	...	...	...	...	...	...	...
Beech	223	122	86	...	...	...	...	15	...	...	...
Sweetgum	72210	33184	18571	11506	4488	2749	804	485	277	136	11
Blackgum	8277	2543	2380	1445	923	447	304	142	10	83	...
White ash	1935	568	419	319	328	181	52	40	11	16	...
Other ashes	6179	1918	1994	971	556	428	136	117	34	19	5
Sycamore	326	101	150	...	55	...	20	...	...	...	...
Cottonwood	917	...	114	242	223	62	96	118	51	7	4
Magnolia	150	150	...	...	...	...	...	...	...	...	...
Sweetbay	197	131	...	39	28	...	...	...	...	...	...
Willow	593	212	70	137	28	89	33	12	...	7	4
Black walnut	204	...	59	53	92	...	...	...	...	...	...
Black cherry	359	165	164	...	29	...	...	...	...	...	...
American elm	3838	2085	646	503	236	228	83	13	...	44	...
Other elms	17082	7959	4620	2367	1019	686	310	102	9	10	...
River birch	2672	1144	833	291	175	116	80	...	10	24	...
Hackberry	4711	1864	1584	603	227	171	174	65	...	23	...
Other locusts	1025	437	336	84	77	...	52	14	10	15	...
Sassafras	729	590	67	...	37	18	17	...	...	...	...
Dogwood	111	111	...	...	...	...	...	...	...	...	...
Holly	684	684	...	...	...	...	...	...	...	...	...
Other commercial	466	319	147	...	...	...	...	...	...	...	...
Total hardwoods	257688	99947	65351	41503	21492	13678	7520	3901	2131	1982	184
All species	471881	175353	115889	72777	46197	29317	15828	8363	4223	3635	298

Table 33--Volume of growing stock on timberland by species and diameter class, Northeast 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 -----											
Slash pine	41.9	0.8	5.7	7.3	10.9	9.7	5.7	...	1.5	0.2	...
Shortleaf pine	1289.0	64.8	169.5	236.5	274.5	242.1	148.0	89.4	42.2	21.8	0.4
Loblolly pine	1280.9	97.2	137.9	153.7	198.2	192.8	163.3	127.1	84.2	107.1	19.5
Redcedar	14.0	3.8	4.0	2.7	1.5	1.1	0.4	0.5	...	...	...
Cypress	51.4	2.0	10.8	6.7	5.5	6.3	5.8	2.0	3.7	8.6	...
Total softwoods	2677.3	168.6	327.9	406.9	490.5	452.0	323.2	219.0	131.5	137.7	19.8
Select white oaks	125.7	9.5	17.5	14.9	16.2	12.5	18.3	13.8	13.2	8.3	1.5
Select red oaks	69.4	4.7	6.1	9.5	9.3	10.1	7.1	6.1	4.0	9.2	3.3
Other white oaks	336.1	31.0	51.0	57.3	53.7	43.7	39.0	23.9	19.6	16.4	0.6
Other red oaks	619.0	39.6	75.3	95.1	86.1	90.0	76.4	49.1	35.8	61.3	10.2
Sweet pecan	3.1	...	0.5	...	1.1	0.4	...	0.4	...	0.7	...
Water hickory	12.0	1.2	1.9	3.7	1.2	0.8	0.5	0.6	...	1.2	0.8
Other hickories	92.5	9.0	11.8	21.6	16.0	15.8	7.6	5.1	3.6	1.9	...
Persimmon	1.9	...	0.8	0.8	...	0.3	...	...	...	...	...
Hard maple	1.5	0.6	...	0.4	...	...	0.5	...	...	...	...
Soft maple	16.0	6.8	3.5	2.7	0.7	2.3	...	...	...	...	...
Boxelder	3.3	1.2	0.8	1.4	...	...	...	...	...	...	...
Beech	1.3	0.3	0.4	...	...	...	...	0.6	...	...	...
Sweetgum	506.7	67.1	103.7	120.6	75.7	65.8	26.1	19.9	16.3	9.3	2.1
Blackgum	77.9	6.8	12.6	14.5	15.0	9.8	7.7	5.5	0.5	5.3	...
White ash	19.0	1.1	2.4	2.7	4.6	3.5	1.5	1.7	0.7	0.8	...
Other ashes	54.0	4.2	11.0	10.6	8.9	9.3	3.4	4.0	1.4	0.9	0.4
Sycamore	3.2	0.3	0.8	...	1.1	...	1.0	...	...	...	...
Cottonwood	32.7	...	1.4	4.2	7.8	2.7	4.7	7.0	3.5	0.7	0.7
Magnolia	0.4	0.4	...	...	...	...	...	...	...	...	...
Sweetbay	0.8	...	...	0.5	0.4	...	...	...	...	...	...
Willow	5.5	0.3	0.1	0.8	0.3	1.5	1.1	0.5	...	0.5	0.6
Black walnut	1.9	...	0.4	0.4	1.1	...	...	...	...	...	...
Black cherry	2.4	0.3	1.6	...	0.5	...	...	...	...	...	...
American elm	25.0	4.4	3.3	4.1	3.3	4.7	2.3	0.5	...	2.3	...
Other elms	99.5	16.5	23.3	19.1	15.6	13.1	8.2	3.0	0.2	0.5	...
River birch	18.1	3.1	4.4	2.7	2.5	1.9	1.9	...	0.4	1.1	...
Hackberry	31.1	4.1	7.9	4.6	2.8	3.7	4.5	2.0	...	1.5	...
Other locusts	8.7	1.3	1.6	0.8	1.5	...	1.3	0.4	0.4	1.4	...
Sassafras	2.5	1.1	0.2	...	0.6	0.2	0.3	...	...	...	...
Dogwood	0.2	0.2	...	...	...	...	...	...	...	...	...
Holly	1.1	1.1	...	...	...	...	...	...	...	...	...
Other commercial	0.9	0.6	0.4	...	...	...	...	...	...	...	...
Total hardwoods	2173.5	216.7	344.6	393.2	326.1	292.1	213.6	144.1	99.6	123.3	20.3
All species	4850.8	385.3	672.5	800.1	816.6	744.1	536.8	363.1	231.2	261.0	40.1

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

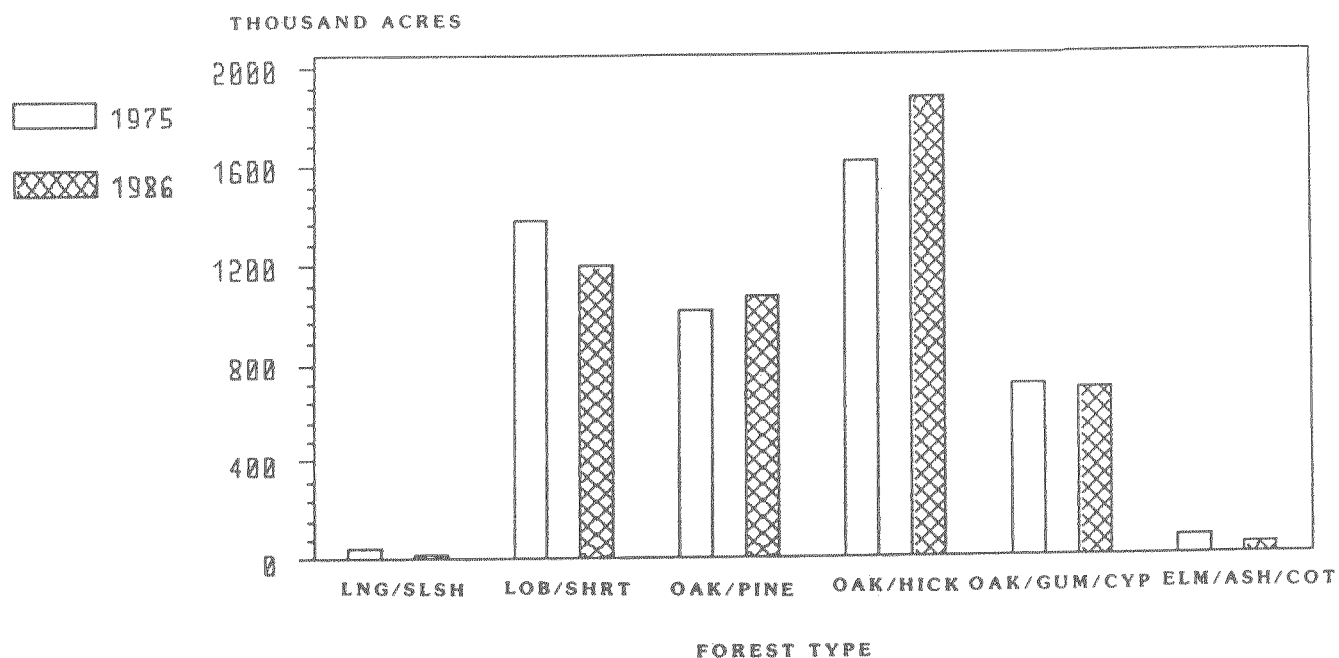
Species	Diameter class (inches at breast height)								
	All classes	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 & larger
	Million cubic feet								
Slash pine	31.7	6.0	9.8	8.9	5.3	...	1.4	0.2	...
Shortleaf pine	967.2	197.5	252.7	229.2	141.0	86.0	39.9	20.6	0.4
Loblolly pine	961.0	124.4	179.1	179.5	156.3	121.9	80.2	100.9	18.6
Redcedar	5.2	2.1	1.3	0.9	0.4	0.5	...	...	...
Cypress	33.8	4.7	4.3	5.7	5.5	1.9	3.6	8.1	...
Total softwoods	1998.9	334.7	447.2	424.2	308.4	210.4	125.2	129.8	19.0
Select white oaks	73.8	...	13.2	10.8	15.9	12.6	12.1	7.7	1.5
Select red oaks	42.9	...	6.8	8.6	6.4	5.5	3.6	8.8	3.3
Other white oaks	172.1	...	44.6	39.2	34.5	21.3	17.7	14.3	0.6
Other red oaks	352.0	...	65.4	77.7	66.5	43.4	33.2	56.5	9.2
Sweet pecan	2.2	...	0.9	0.4	...	0.4	...	0.6	...
Water hickory	4.5	...	0.9	0.7	0.4	0.6	...	1.1	0.8
Other hickories	43.3	...	13.2	13.7	6.9	4.4	3.3	1.8	...
Persimmon	0.3	...	...	0.3	...	...	...	...	...
Hard maple	0.4	...	...	...	0.4	...	...	...	...
Soft maple	2.5	...	0.7	1.7	...	...	...	...	...
Beech	0.6	...	...	...	...	0.6	...	...	...
Sweetgum	177.1	...	52.5	56.3	24.3	18.1	15.3	8.6	2.0
Blackgum	37.4	...	11.2	8.3	7.1	5.3	0.5	4.9	...
White ash	10.8	...	3.5	3.1	1.3	1.4	0.6	0.7	...
Other ashes	22.9	...	6.3	7.8	2.8	3.5	1.2	0.9	0.4
Sycamore	1.7	...	0.9	...	0.8	...	...	...	...
Cottonwood	25.9	...	7.4	2.5	4.5	6.8	3.4	0.7	0.7
Sweetbay	0.3	...	0.3	...	...	...	...	...	...
Willow	4.1	...	0.2	1.4	1.0	0.4	...	0.5	0.5
Black walnut	1.0	...	1.0	...	...	...	...	...	...
Black cherry	0.5	...	0.5	...	...	...	...	...	...
American elm	11.0	...	2.3	4.1	2.0	0.5	...	2.2	...
Other elms	34.9	...	13.1	11.3	7.0	2.8	0.2	0.5	...
River birch	6.2	...	1.8	1.5	1.5	...	0.3	1.0	...
Hackberry	11.6	...	2.1	3.0	3.8	1.5	...	1.2	...
Other locusts	4.3	...	1.2	...	1.1	0.4	0.4	1.2	...
Sassafras	0.9	...	0.4	0.2	0.3	...	...	...	...
Total hardwoods	1045.1	...	250.5	252.6	188.7	129.4	91.8	113.1	19.1
All species	3044.0	334.7	697.7	676.9	497.1	339.7	217.0	242.9	38.1

Table 35--Volume of timber on timberland by species and class of timber, Northeast Texas, 1986

Species	All live	Growing stock	Rough	Rotten
----- Million cubic feet -----				
Slash pine	42.4	41.9	0.5	...
Shortleaf pine	1316.8	1289.0	26.1	1.7
Loblolly pine	1322.8	1280.9	39.9	2.0
Redcedar	17.3	14.0	3.2	...
Cypress	56.3	51.4	2.7	2.1
Total softwoods	2755.6	2677.3	72.5	5.8
Select white oaks	142.0	125.7	12.2	4.1
Select red oaks	90.1	69.4	12.6	8.1
Other white oaks	478.1	336.1	118.2	23.7
Other red oaks	791.7	619.0	127.5	45.2
Sweet pecan	4.0	3.1	0.9	...
Water hickory	15.9	12.0	3.4	0.5
Other hickories	126.1	92.5	27.7	5.9
Persimmon	2.6	1.9	0.7	...
Hard maple	4.5	1.5	1.6	1.4
Soft maple	31.2	16.0	12.1	3.1
Boxelder	4.4	3.3	0.9	0.2
Beech	4.3	1.3	1.1	1.8
Sweetgum	595.9	506.7	68.3	20.9
Blackgum	99.8	77.9	15.9	6.0
White ash	26.0	19.0	5.9	1.2
Other ashes	70.8	54.0	13.8	3.0
Sycamore	4.7	3.2	...	1.5
Cottonwood	34.3	32.7	...	1.6
Basswood	1.5	...	0.3	1.2
Magnolia	0.4	0.4	...	...
Sweetbay	1.5	0.8	0.6	...
Willow	10.9	5.5	4.2	1.2
Black walnut	4.0	1.9	2.0	...
Black cherry	4.1	2.4	1.8	...
American elm	34.1	25.0	8.1	1.0
Other elms	142.6	99.5	40.3	2.7
River birch	25.7	18.1	6.6	1.0
Hackberry	54.1	31.1	20.9	2.1
Other locusts	11.7	8.7	2.3	0.6
Sassafras	4.2	2.5	1.7	...
Dogwood	1.3	0.2	0.8	0.2
Holly	1.5	1.1	0.4	...
Other commercial	4.4	0.9	3.3	0.2
Total hardwoods	2828.2	2173.5	516.2	138.5
Noncommercial	95.1	...	95.1	...
All species	5678.9	4850.8	683.8	144.3

GRAPHICS

AREA OF TIMBERLAND BY FOREST TYPE NORTHEAST TEXAS 1975 AND 1986

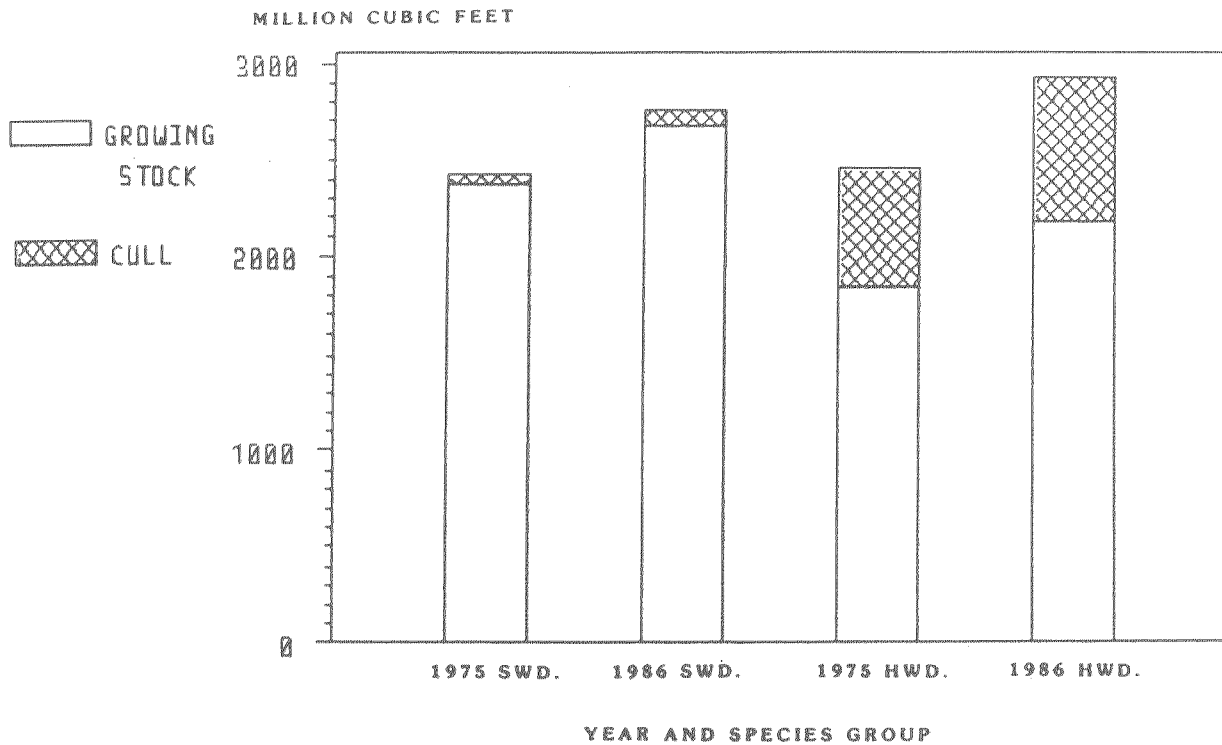


AREA OF TIMBERLAND BY STAND-SIZE CLASS NORTHEAST TEXAS 1975 AND 1986



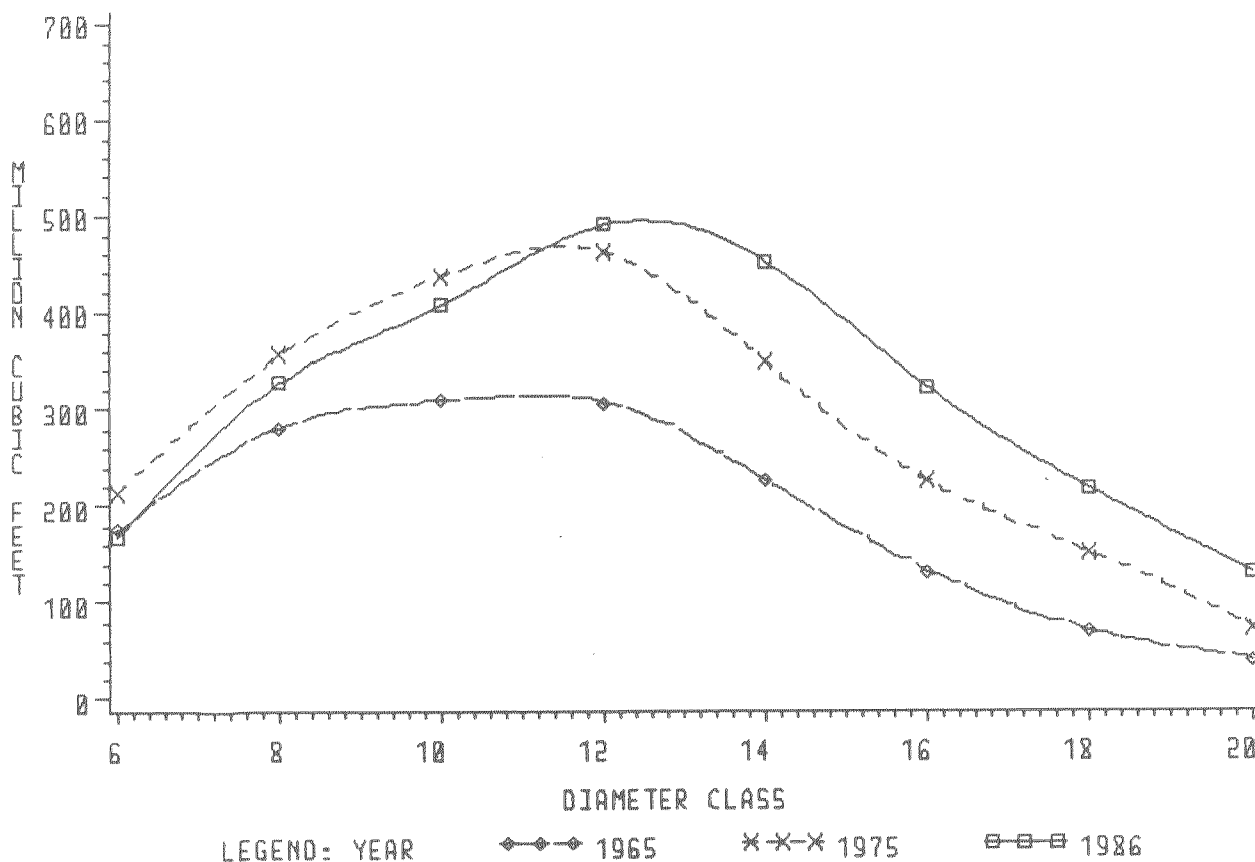
TIMBER VOLUME BY TREE CLASS AND SPECIES

NORTHEAST TEXAS 1975 AND 1986



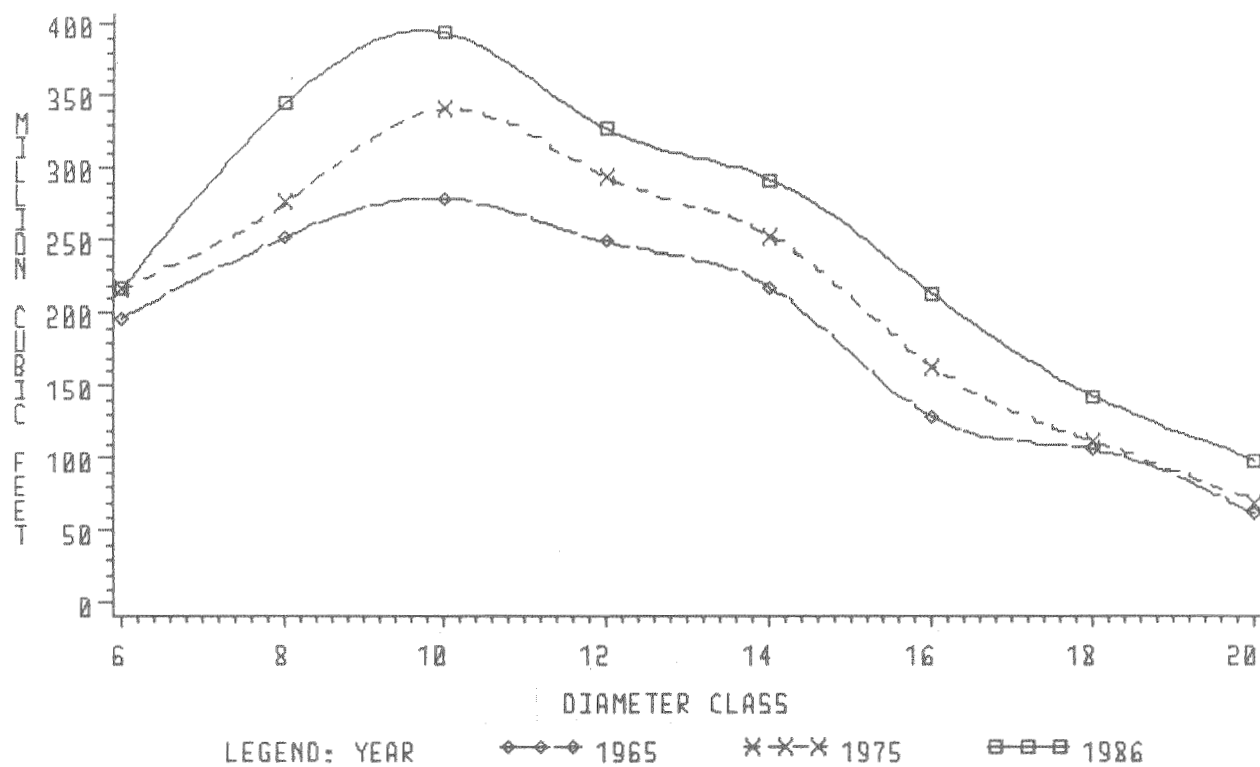
SOFTWOOD GROWING STOCK VOLUME BY DBH CLASS

NORTHEAST TEXAS 1965, 1975 AND 1986



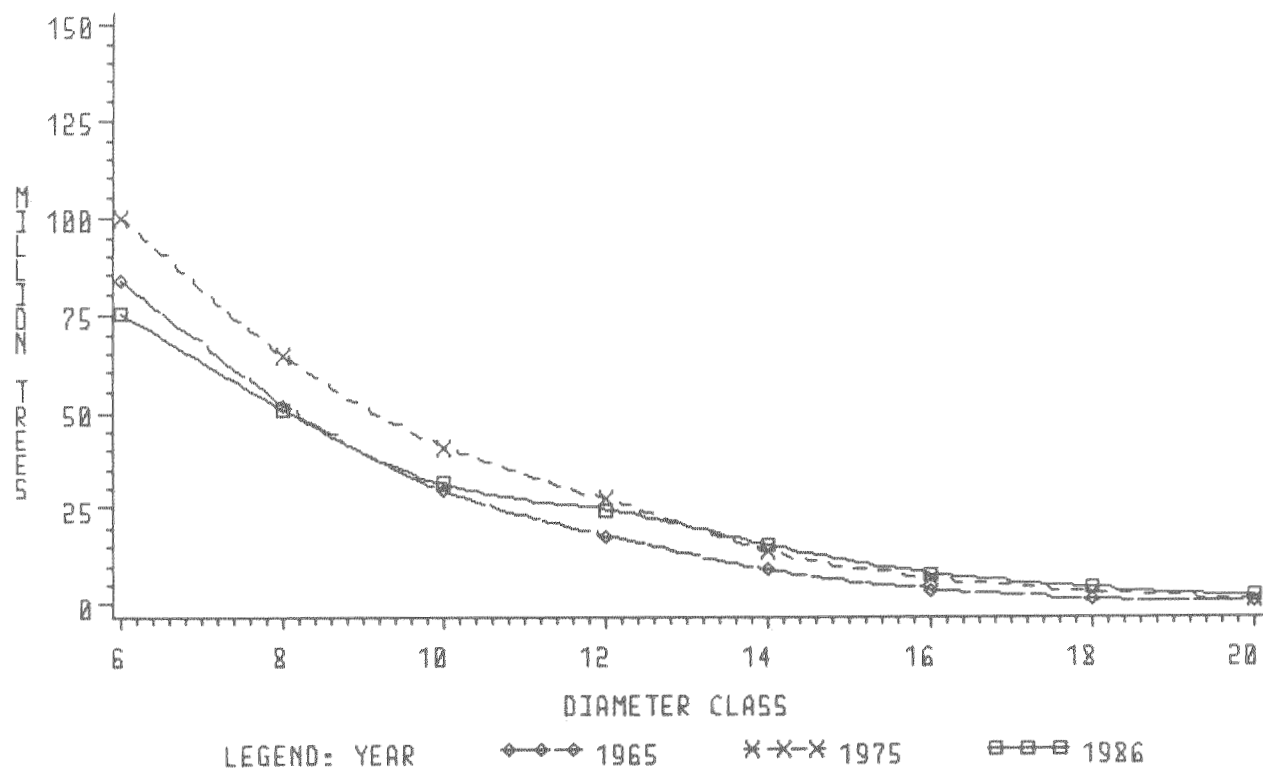
HARDWOOD GROWING STOCK VOLUME BY DBH CLASS

NORTHEAST TEXAS 1965, 1975, AND 1986

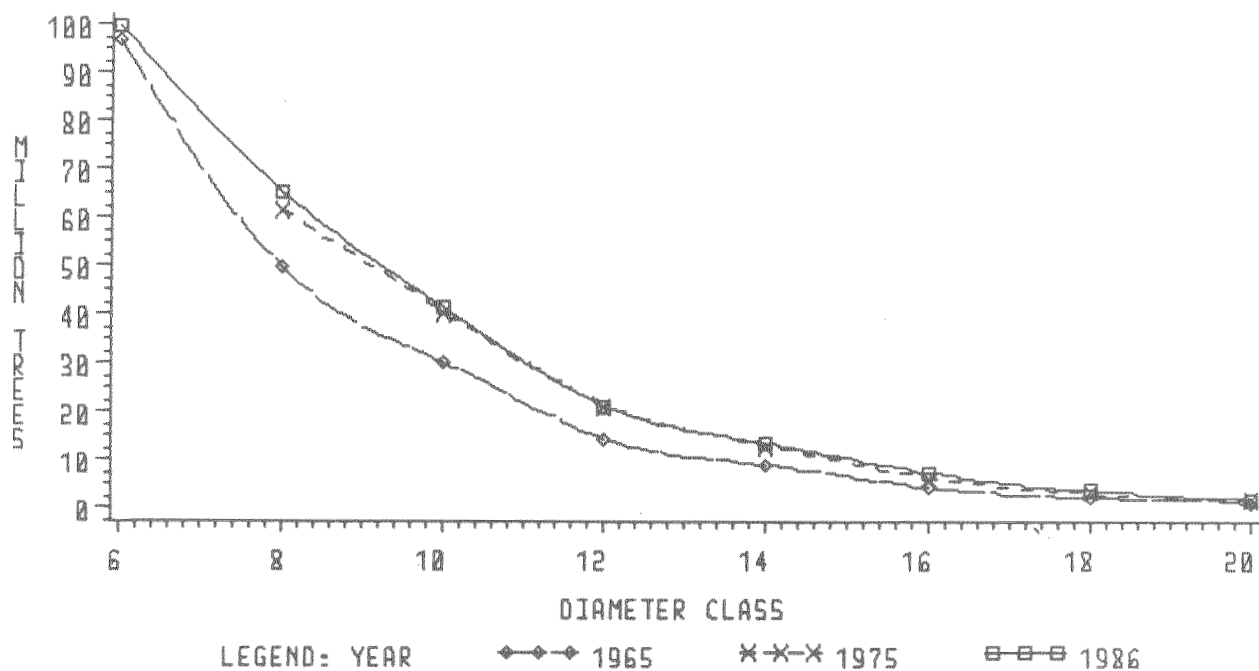


NUMBER OF SOFTWOOD GROWING STOCK TREES BY DBH CLASS

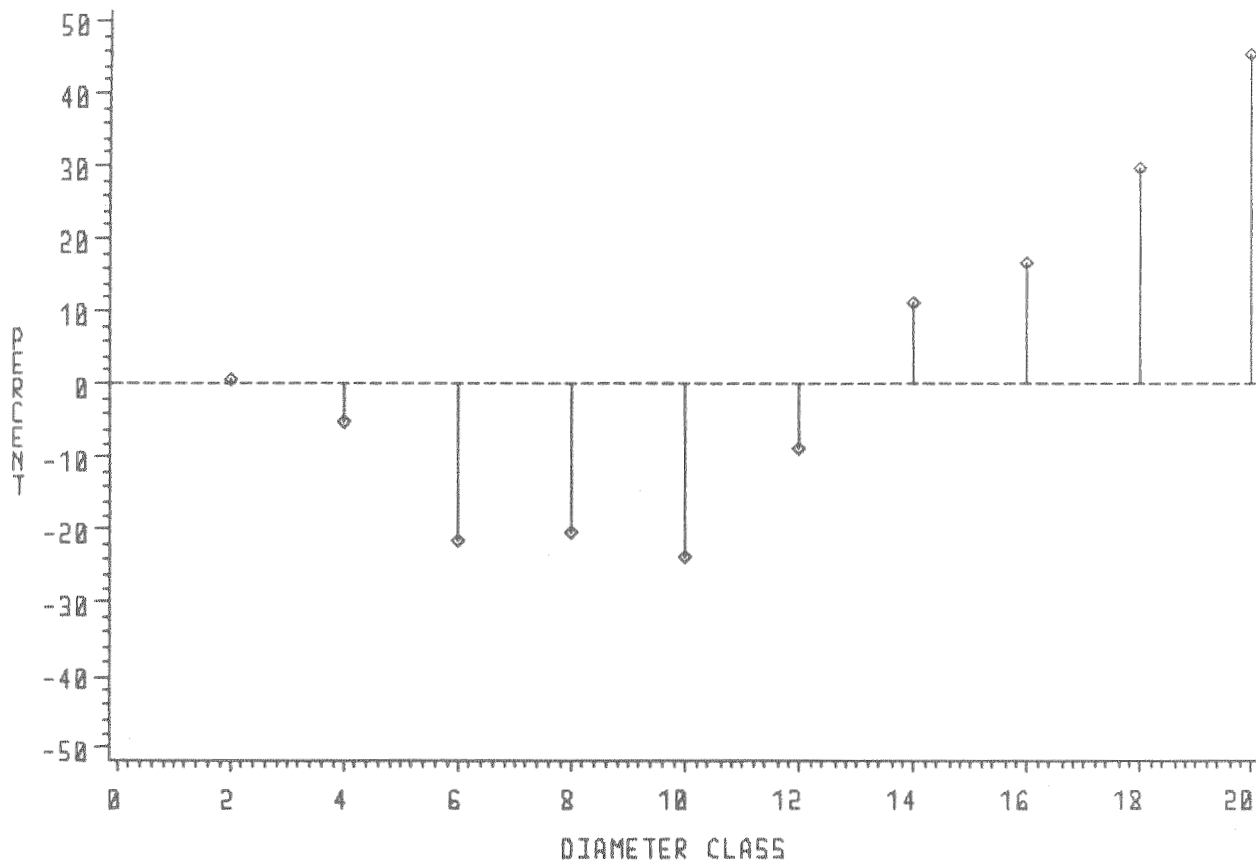
NORTHEAST TEXAS 1965, 1975, AND 1986



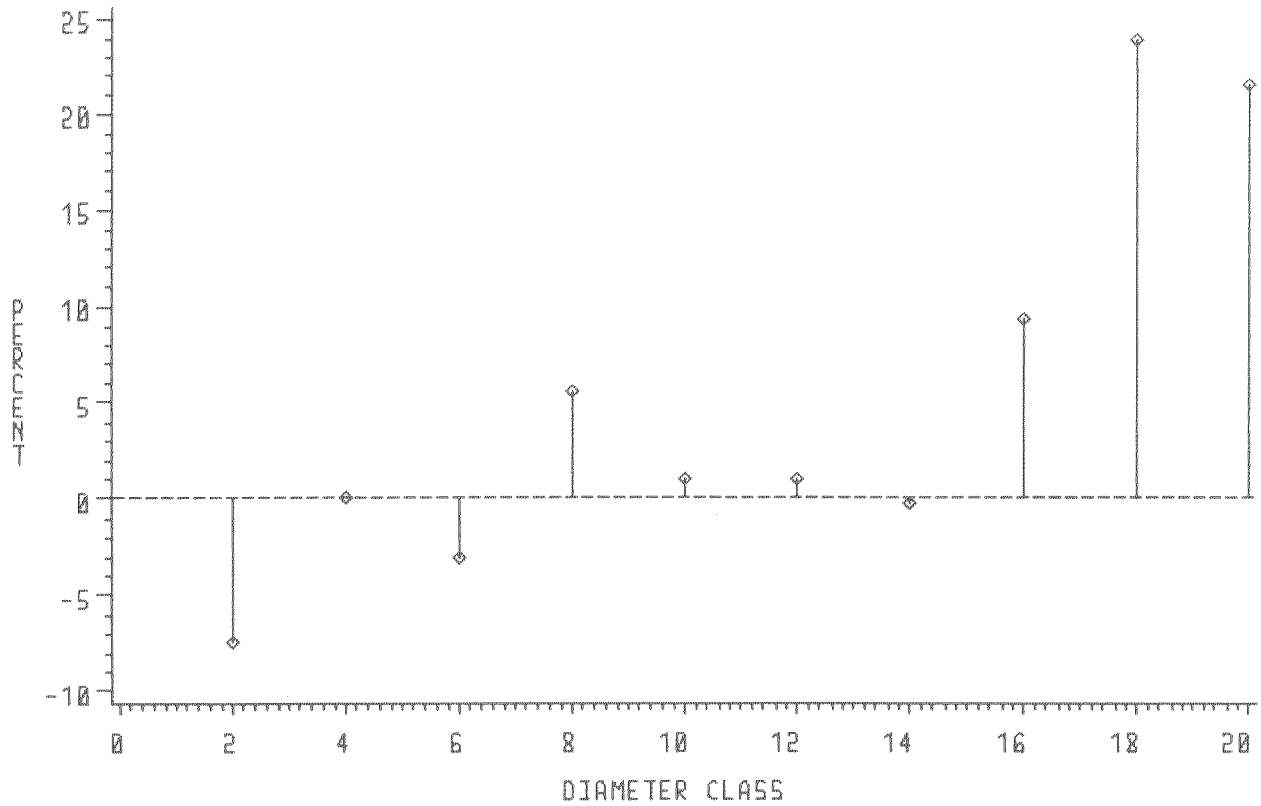
NUMBER OF HARDWOOD GROWING STOCK TREES BY DBH CLASS NORTHEAST TEXAS 1965, 1975, AND 1986



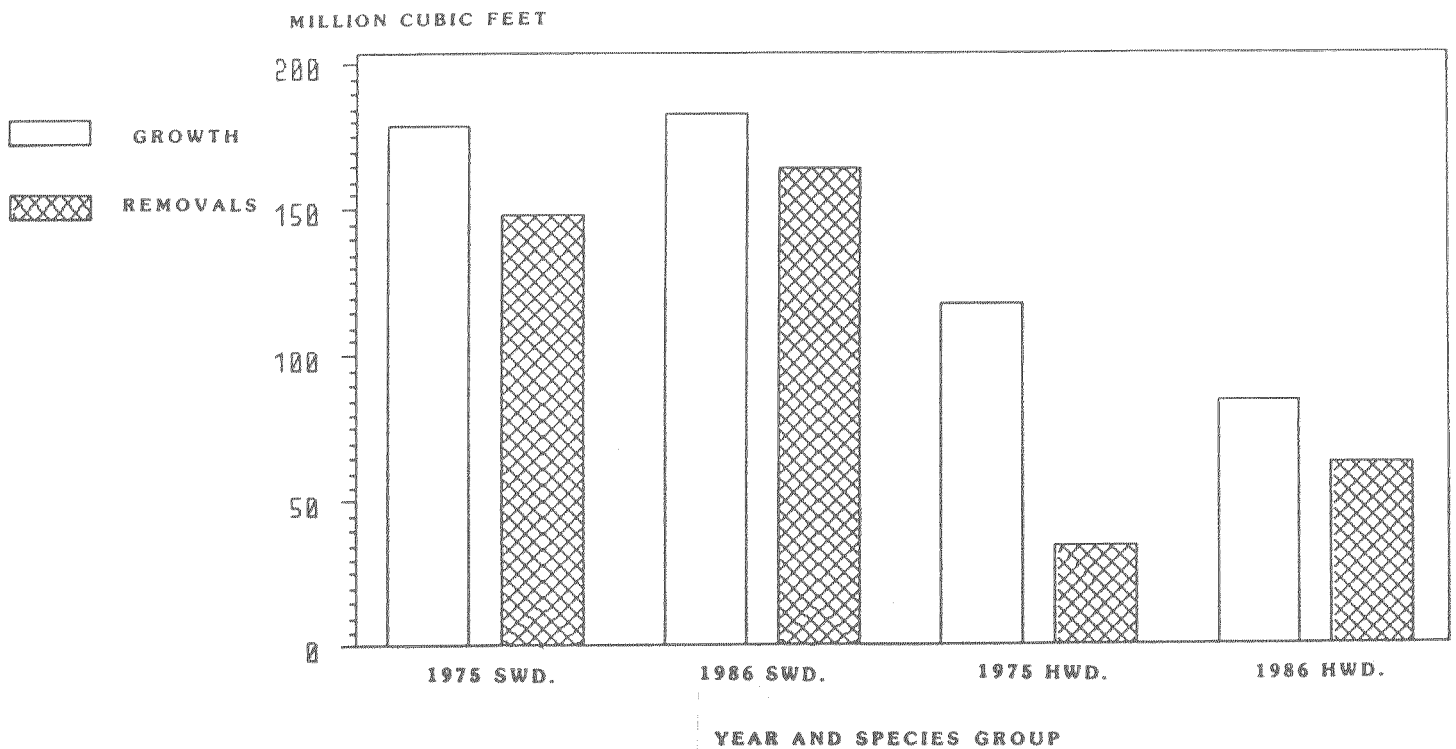
CHANGE IN NUMBER OF LIVE SOFTWOOD TREES NORTHEAST TEXAS 1975 TO 1986



CHANGE IN NUMBER OF LIVE HARDWOOD TREES NORTHEAST TEXAS 1975 TO 1986



GROWTH AND REMOVALS BY SPECIES GROUP NORTHEAST TEXAS 1975 AND 1986



McWilliams, William H. and Daniel F. Bertelson. Forest Statistics for Northeast Texas counties - 1986. Resourc. Bull. SO-113. New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station; 1986. 29p.

Tabulates forest resource information from a new inventory of the Northeast Unit of Texas.

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