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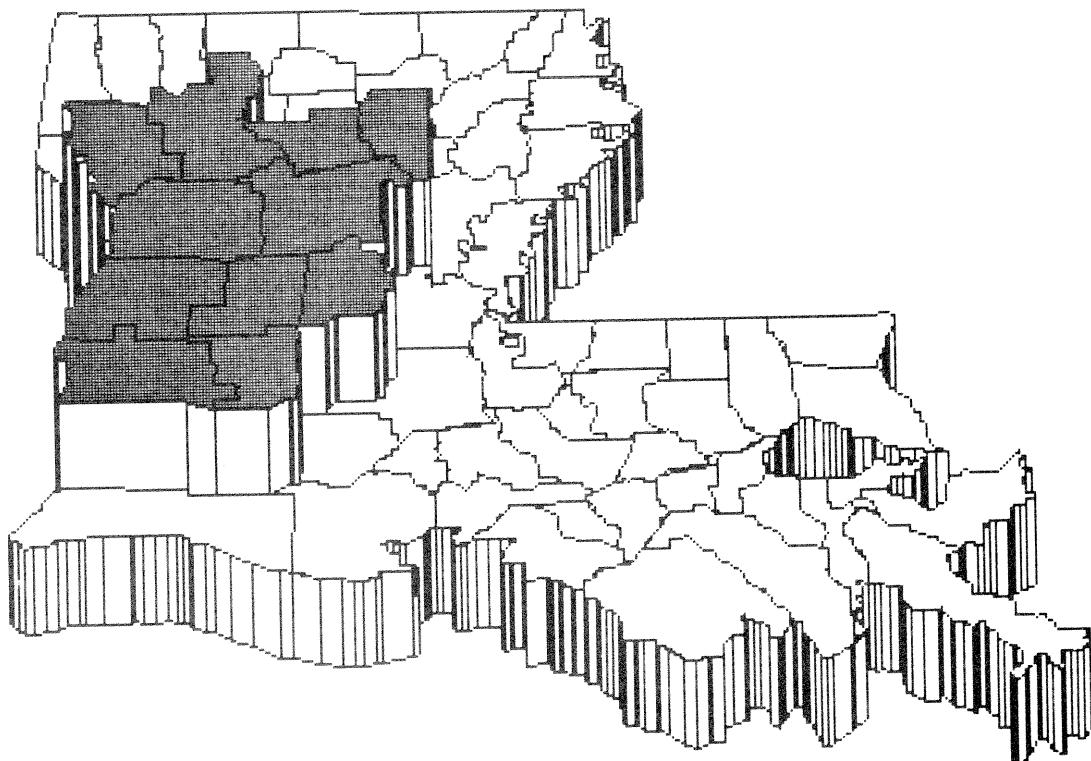
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Forest Statistics for Southwest Louisiana Parishes

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SUMMARY

The Southern Forest Survey, an activity of the Southern Forest Experiment Station Forest Inventory and Analysis work unit (FIA), covers the states of Alabama, Arkansas, Louisiana, Mississippi, Oklahoma, Tennessee, 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.

ACKNOWLEDGMENTS

The Southern Station gratefully acknowledges the cooperation and assistance provided by the Louisiana Office of Forestry in collecting field data and in gathering ownership information. Appreciation is also expressed for the cooperation of other public agencies, forest industries, and other private landowners in providing access to the sample locations.

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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.

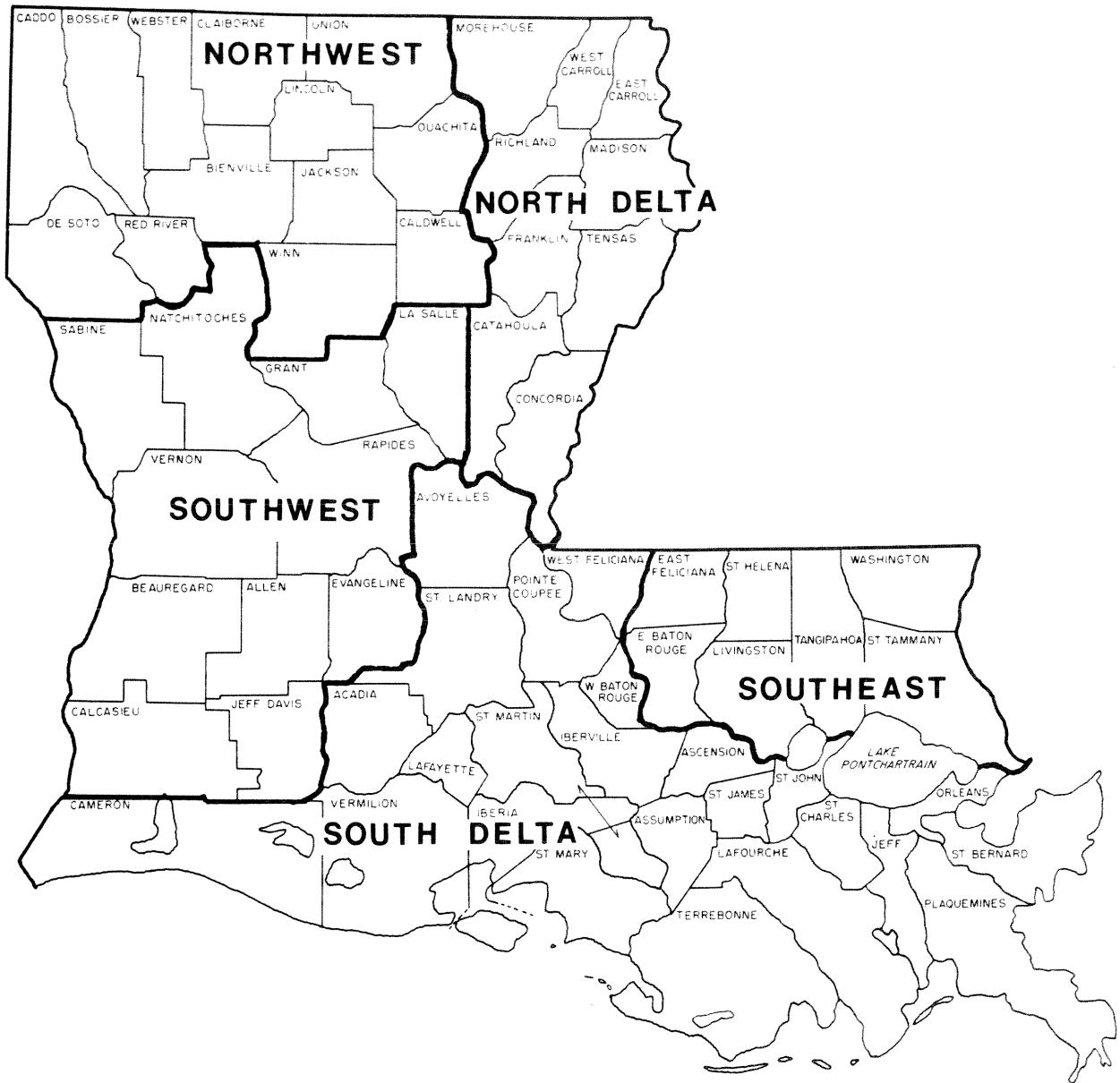


Figure 1.--The forest survey regions of Louisiana.

Forest Statistics for Southwest Louisiana Parishes

James F. Rosson, Jr. and Daniel F. Bertelson

HIGHLIGHTS

These tables were derived from data obtained during a 1984 inventory of 11 parishes comprising the Southwest Unit of Louisiana (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 measurements 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 5 BA 37.5 point samples.

The sampling methods were developed to provide suitable State estimates. 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 parishes one can use the following:

SET \checkmark \overline{XT}
SEG = $\overline{\checkmark XG}$

where:

SE = standard error of estimate (%)

X = variable of interest (area, volume)

G = group of parishes to be combined

T = total for the unit

Timberland Area

Timberland acreage declined from the 1974 survey level, 4,538,400 acres, to 4,416,800 acres currently, a 3 percent drop. Significant gains or losses of timberland have occurred in individual parishes but offset each other for the Unit as a whole.

Table I--Sampling errors¹ for timberland, growing stock, and sawtimber, Southwest Louisiana, 1984

Parish	Timberland	Growing stock			Sawtimber volume
		Volume	Growth	Removals	
Percent					
Allen	1.4	9.6	12.4	12.8	11.7
Beauregard	2.0	11.7	8.9	10.3	14.7
Calcasieu	1.7	17.9	20.1	24.5	20.6
Evangeline	2.0	11.0	13.9	29.5	14.3
Grant	2.1	11.3	9.4	14.2	13.3
Jefferson Davis	1.3	21.2	16.7	(2)	24.2
La Salle	2.7	12.3	10.3	15.7	15.5
Natchitoches	1.3	7.2	7.9	9.6	8.7
Rapides	1.9	9.9	9.5	15.0	12.0
Sabine	1.2	8.9	8.7	11.5	10.9
Vernon	1.2	8.1	7.8	10.5	10.6
All parishes	0.5	3.4	3.1	4.3	4.2

¹ By random-sampling formula.

² Sampling error greater than 50.

Ownership

Between 1974 and 1984 nonindustrial private timberland acreage declined and forest industry acreage increased. Forest industry timberland increased 9 percent to 1,828,400 acres. Nonindustrial private timberland acreage fell to 1,943,700 acres, a 14 percent decline. Nonindustrial private timberland acreage that was leased to forest industry is included in forest industry acreage for comparison between the 1974 and 1984 inventories.

Forest Type

While the longleaf-slash and loblolly-shortleaf forest type acreage remained relatively stable since 1974, the oak-pine forest type acreage declined 17 percent to 677,600 acres. Most of this acreage shifted to the oak-hickory type, the probable result of the cutting of pine in the oak-pine types. The dominant forest type in the Southwest unit is loblolly-shortleaf, occupying 35 percent of all timberland area.

Stand Size

Acreage of sawtimber stands increased 8 percent to 2,390,800 acres. Poletimber stands declined 14 percent and sapling-seedling acreage declined 8 percent to 937,100 and 974,000 acres, respectively. Sawtimber stands occupy 54 percent of timberland area in the Southwest unit.

Artificial Regeneration

A total of 816,400 acres of timberland have been artificially regenerated to softwood forest types, an increase of 112,900 acres over that reported for the 1974 survey. Total plantation acreage in softwood types represents 18 percent of the total timberland in Southwest Louisiana.

Softwood Volume

Softwood growing-stock volume increased to 3,815 million cubic feet. The volume in sawtimber increased to 16,480 million board feet. Much of this increase in sawtimber is due to the increase in the number of larger

trees. Seventy percent of total growing-stock volume and 78 percent of sawtimber volume is in softwood.

Hardwood Volume

There was no significant change in hardwood growing-stock or sawtimber volume between surveys. Currently, there is 1,655 million cubic feet of growing stock and 4,750 million board feet of sawtimber.

Gross Growth

Gross growth of softwood growing-stock trees averaged 54 cubic feet per acre per year, no change since the 1974 survey period. Softwood sawtimber gross growth averaged 245 board feet per acre per year, up slightly from 215 board feet per acre per year during the 1974 survey period.

Hardwood gross growth of growing-stock trees averaged 16 cubic feet per acre per year for both the 1974 and 1984 survey periods. Gross growth for hardwood sawtimber was slightly higher for the 1984 survey period, 55 board feet per acre per year.

Removals

Softwood growing-stock removals averaged 175 million cubic feet annually. Softwood sawtimber removals are 740 million board feet annually. Since 1974, softwood growing-stock removals have not changed but sawtimber removals are down from 865 million board feet reported in 1974.

Hardwood removals for the 1984 period averaged 50 million cubic feet per year and 140 million board feet per year for growing stock and sawtimber, respectively.

Number of Trees

The number of live sapling-size softwood trees has decreased by 18 percent since the 1974 survey. There was a 5 percent decline in the number of live sapling-size hardwood trees. Such significant drops in the number of future merchantable softwood trees may indicate a declining inventory volume sometime in the future.

Net Inventory Change

Softwood growing stock increased 43 million cubic feet per year (net growth minus removals). Hardwood growing stock increased 11 million cubic feet per year. These rates of increase are 14 and 67 percent below, respectively, that of the 1974 survey period.

Softwood sawtimber increased at an annual rate of 270 million board feet, up from 74 million board feet in 1974. Hardwood sawtimber increased at an annual rate of 64 million board feet, down slightly since the 1974 survey period.

Mortality Increases

Average annual mortality of softwood growing stock increased from 10 million cubic feet in 1974 to 20 million cubic feet in 1984. Hardwood growing-stock mortality almost doubled, from 6 to 10 million cubic feet per year.

Softwood sawtimber mortality is currently 66 million board feet per year, up from 30 million board feet in 1974. Hardwood sawtimber mortality rose from 18 million board feet in 1974 to 28 million board feet per year, currently.

Cull Volume

There was an increase of cull volume in softwoods since the 1974 survey. Cull volume increased from 50 million cubic feet in 1974 to 80 million cubic feet in 1984, a 30 million cubic foot increase. Approximately 2 percent of softwood live tree volume is in cull trees.

Cull volume for hardwoods rose to 530 million cubic feet, a 30 million cubic foot increase (7 percent) over the 1974 survey. Of the 2,186 million cubic feet of live hardwood volume, 24 percent is in cull trees.

Tables 1-25 were developed to provide compatibility among Forest Inventory and Analysis Projects. Tables 26-36 are supplementary tables and may change from unit to unit or state to state to address specific resource issues.

DEFINITION OF TERMS

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.

Average net annual growth.--Average annual net volume increase for the inter-survey period.

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.--Net volume in cubic feet of 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.

Physiographic site.--A classification of forest land according to the availability of moisture for tree growth. Xeric-low or deficient in moisture. Mesic-a moderate amount of moisture. Hydric-an abundance or over abundance of moisture.

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.

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. (Includes 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.

Sawtimber volume.--Net volume of the saw-log portion of live sawtimber 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 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.

CORE TABLES 1 - 25

Table 1--Area by parish and land class, Southwest Louisiana, 1984

Parish	All land ¹	Forest land				Nonforest land
		Total	Timberland ²	Woodland ³	Reserved timberland	
----- Thousand acres -----						
Allen	490.4	346.6	346.6	...	...	143.8
Beauregard	746.1	594.9	594.9	...	...	151.2
Calcasieu	699.9	206.7	206.7	...	...	493.2
Evangeline	435.3	177.5	177.5	...	...	257.8
Grant	424.9	334.0	334.0	...	...	90.9
Jefferson Davis	421.5	56.1	56.1	...	...	365.4
La Salle	424.1	360.0	360.0	...	...	64.1
Natchitoches	832.0	563.5	554.5	...	9.0	268.5
Rapides	871.4	561.9	561.8	...	0.1	309.5
Sabine	647.4	462.6	462.6	...	...	184.8
Vernon	858.2	762.0	762.0	...	...	96.3
All parishes	6851.3	4425.9	4416.8	...	9.1	2425.5

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.

Table 2--Area of timberland by parish and ownership class, Southwest Louisiana, 1984

Parish	All ownerships	National forest	Misc. federal	State	Parish and municipal	Forest industry ¹	Farmer	Corporate ²	Individual ²
----- Thousand acres -----									
Allen	346.6	...	...	...	...	154.0	5.5	115.5	71.5
Beauregard	594.9	...	...	...	...	268.3	29.2	134.1	163.3
Calcasieu	206.7	...	...	...	...	68.9	...	50.1	87.7
Evangeline	177.5	...	...	5.2	5.2	26.1	...	57.4	83.5
Grant	334.0	167.0	...	...	...	111.3	...	6.2	49.5
Jefferson Davis	56.1	...	...	...	...	...	...	18.7	37.4
La Salle	360.0	...	...	33.8	22.5	281.3	5.6	...	16.9
Natchitoches	554.5	110.9	...	...	11.1	188.5	22.2	66.5	155.3
Rapides	561.8	101.1	5.6	11.2	...	112.4	33.7	106.7	191.0
Sabine	462.6	...	5.8	11.6	5.8	208.2	...	23.1	208.2
Vernon	762.0	85.3	62.5	...	...	409.4	17.1	45.5	142.2
All parishes	4416.8	464.3	73.9	61.8	44.6	1828.4	113.2	624.0	1206.5

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.

Table 3--Area of timberland by parish and forest type group, Southwest Louisiana, 1984

Parish	Total	Forest type group							
		Longleaf-slash pine		Loblolly-shortleaf pine		Oak-pine	Oak-hickory	Oak-gum cypress	Elm-ash-cottonwood
		Planted	Natural	Planted	Natural				
----- Thousand acres -----									
Allen	346.6	66.0	..	16.5	55.0	88.0	38.5	82.5	...
Beauregard	594.9	192.5	75.8	35.0	87.5	40.8	58.3	105.0	...
Calcasieu	206.7	50.1	43.9	..	56.4	6.3	18.8	31.3	...
Evangeline	177.5	10.4	10.4	..	57.4	31.3	31.3	36.5	...
Grant	334.0	...	18.6	37.1	99.0	68.0	61.9	49.5	...
Jefferson Davis	56.1	...	6.2	..	12.5	18.7	6.2	12.5	...
La Salle	360.0	...	5.6	50.6	101.3	39.4	56.3	106.9	...
Natchitoches	554.5	11.1	22.2	11.1	199.6	83.2	138.6	72.1	16.6
Rapides	561.8	28.1	44.9	39.3	157.3	89.9	56.2	129.2	16.9
Sabine	462.6	5.8	..	69.4	144.6	92.5	127.2	23.1	...
Vernon	762.0	119.4	68.2	73.9	227.4	119.4	85.3	68.2	...
All parishes	4416.8	483.4	295.9	333.0	1197.9	677.6	678.6	716.9	33.5

Table 4--Area of timberland by parish and stand-size class, Southwest Louisiana, 1984

Parish	All classes	Stand-size class			Nonstocked ¹ areas
		Sawtimber	Poletimber	Sapling-seedling	
----- Thousand acres -----					
Allen	346.6	203.6	49.5	82.5	11.0
Beauregard	594.9	309.1	157.5	110.8	17.5
Calcasieu	206.7	94.0	50.1	50.1	12.5
Evangeline	177.5	146.2	26.1	5.2	...
Grant	334.0	204.1	55.7	68.0	6.2
Jefferson Davis	56.1	49.9	..	6.2	...
La Salle	360.0	191.3	73.1	90.0	5.6
Natchitoches	554.5	293.9	155.3	94.3	11.1
Rapides	561.8	292.2	118.0	129.2	22.5
Sabine	462.6	237.1	98.3	121.4	5.8
Vernon	762.0	369.6	153.5	216.1	22.7
All parishes	4416.8	2390.8	937.1	974.0	114.9

¹ Timberland less than 16.7 percent stocked.

Table 5--Area of timberland by parish and site class, Southwest Louisiana, 1984

Parish	All classes	Site class (cubic feet/acre/year)				
		> 165	120-165	85-120	50-85	< 50
Thousand acres						
Allen	346.6	49.5	143.0	93.5	55.0	5.5
Beauregard	594.9	46.7	210.0	192.5	116.6	29.2
Calcasieu	206.7	12.5	37.6	62.6	75.2	18.8
Evangeline	177.5	5.2	83.5	78.3	10.4	...
Grant	334.0	30.9	154.6	105.1	37.1	6.2
Jefferson Davis	56.1	6.2	25.0	18.7	...	6.2
La Salle	360.0	16.9	33.8	123.8	163.1	22.5
Natchitoches	554.5	22.2	138.6	266.2	116.4	11.1
Rapides	561.8	22.5	61.8	427.0	44.9	5.6
Sabine	462.6	69.4	213.9	167.7	11.6	...
Vernon	762.0	62.5	221.8	358.2	108.0	11.4
All parishes	4416.8	344.6	1323.6	1893.6	738.5	116.5

Table 6--Area of timberland, by parish and stocking classes of growing-stock trees, Southwest Louisiana, 1984

Parish	All classes	Stocking class (percent)				
		> 130	100-130	60-100	16.7-60	< 16.7
Thousand acres						
Allen	346.6	...	55.0	159.6	121.0	11.0
Beauregard	594.9	35.0	110.8	280.0	151.6	17.5
Calcasieu	206.7	...	50.1	87.7	56.4	12.5
Evangeline	177.5	10.4	52.2	62.6	52.2	...
Grant	334.0	24.7	92.8	160.8	49.5	6.2
Jefferson Davis	56.1	...	12.5	37.4	6.2	...
La Salle	360.0	39.4	78.8	118.1	118.1	5.6
Natchitoches	554.5	33.3	122.0	266.2	122.0	11.1
Rapides	561.8	33.7	129.2	264.1	112.4	22.5
Sabine	462.6	46.3	98.3	231.3	81.0	5.8
Vernon	762.0	51.2	119.4	346.9	221.8	22.7
All parishes	4416.8	274.0	921.1	2014.6	1092.2	114.9

Table 7--Area of timberland by forest type and ownership class, Southwest Louisiana, 1984

Forest type ¹	All ownerships	National forest	Other public	Forest industry	Forest industry- leased	Other private
----- Thousand acres -----						
Longleaf-slash pine	779.3	102.5	11.4	262.8	141.7	260.9
Loblolly-shortleaf pine	1530.9	170.2	61.9	548.0	118.1	632.7
Softwood total	2310.2	272.7	73.3	810.8	259.9	893.6
Oak-pine	677.6	91.9	28.7	194.4	55.9	306.8
Oak-hickory	678.6	64.6	5.7	211.1	61.5	335.8
Oak-gum-cypress	716.9	35.2	72.7	154.3	80.6	374.1
Elm-ash-cottonwood	33.5	...	...	...	...	33.5
Hardwood total	2106.5	191.6	107.0	559.8	198.0	1050.1
All types	4416.8	464.3	180.3	1370.6	457.9	1943.7

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.

² Timberland with no current stocking.

Table 8--Area of timberland, by ownership and stocking classes of growing-stock trees, Southwest Louisiana, 1984

Ownership class	All classes	Stocking class (percent)				
		> 130	100-130	60-100	16.7-60	< 16.7
----- Thousand acres -----						
National forest	464.3	30.4	116.8	219.2	97.9	...
Other public	180.3	...	16.5	85.2	78.6	...
Forest industry	1370.6	119.0	316.2	649.6	246.0	39.8
Forest industry-leased	457.9	17.1	74.4	197.5	146.2	22.8
Other private	1943.7	107.5	397.2	863.2	523.6	52.3
All ownerships	4416.8	274.0	921.1	2014.6	1092.2	114.9

Table 9-Area of timberland by forest type and stand-size class,
Southwest Louisiana, 1984

Forest type ¹	All classes	Stand-size class			Nonstocked areas
		Sawtimber	Poletimber	Sapling-seedling	
----- Thousand acres -----					
Longleaf-slash pine	779.3	362.3	242.3	162.7	12.0
Loblolly-shortleaf pine	1530.9	952.6	228.7	343.4	6.3
Softwood total	2310.2	1314.9	471.0	506.1	18.2
Oak-pine	677.6	404.0	125.7	136.9	11.0
Oak-hickory	678.6	216.3	209.8	229.6	22.9
Oak-gum-cypress	716.9	444.5	125.0	84.6	62.8
Elm-ash-cottonwood	33.5	11.2	5.5	16.8	...
Hardwood total	2106.5	1075.9	466.1	467.9	96.7
All types	4416.8	2390.8	937.1	974.0	114.9

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

Table 10-Number of live trees on timberland by species and diameter class, Southwest Louisiana, 1984

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 pine	203045	62417	39869	35364	30601	18471	7815	4518	2276	1064	396	246	8	
Shortleaf-loblolly pine	675565	304722	158108	76127	45695	34361	21386	14158	9280	5375	3010	3246	96	
Other yellow pines	48	...	...	...	...	...	48	...	...	...	...	...	...
Cypress	15792	6178	4637	1975	1227	423	580	196	219	143	...	168	46	
Other softwoods	1196	1109	...	...	...	87	...	...	...	...	...	...	...
Total softwoods	895646	374426	202615	113466	77523	53342	29829	18872	11776	6582	3406	3660	149	
Select white oaks	50599	28684	9879	3703	1912	2340	1800	718	519	529	119	322	71	
Select red oaks	22745	11715	4585	2084	1451	895	604	460	395	190	143	189	34	
Other white oaks	78070	48407	12993	5728	4791	1593	1804	1075	590	349	261	378	101	
Other red oaks	200511	138672	22199	10634	7937	7256	5438	2565	2075	1655	544	1274	262	
Hickory	54131	35125	7135	5183	1544	1241	1348	850	713	423	199	336	33	
Hard maple	6954	6144	530	212	...	68	...	...	...	...	...	...	...
Soft maple	87560	63558	14973	5455	1433	1062	658	278	97	23	22	...	...
Beech	8598	4116	...	408	118	658	721	532	716	356	258	596	118	
Sweetgum	314998	199924	61738	26533	10066	6852	4307	2364	1255	805	566	544	43	
Tupelo-blackgum	142585	102330	18556	9062	4448	2504	1730	1489	1234	651	294	264	24	
Ash	53629	39638	7711	1761	2021	1138	509	450	212	69	39	83	...	
Basswood	2155	2060	...	...	...	78	...	...	...	...	...	17	...
Yellow-poplar	13	...	...	...	...	...	...	...	...	...	...	...	13
Other hardwoods	233125	172007	40280	9708	4718	2864	1640	929	519	218	74	141	27	
Total hardwoods	1255673	852382	200579	80471	40439	28549	20561	11711	8326	5267	2518	4143	726	
Noncommercial	296580	228662	39729	19107	5360	2134	1162	385	32	...	...	...	10
All species	2447898	1455470	442922	213044	123322	84026	51551	30968	20134	11849	5925	7803	886	

Table 11--Number of growing-stock trees on timberland by species and diameter class, Southwest Louisiana, 1984

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	173236	45179	33022	30920	29790	18168	7697	4480	2276	1064	396	236	8
Shortleaf-loblolly pine	507709	190729	117601	67219	43380	33200	21105	13788	9187	5278	2927	3203	90
Other yellow pines	48	...	...	...	...	...	48	...	...	...	...	...	...
Cypress	11519	2577	4122	1975	1227	423	517	162	219	143	...	143	10
Other softwoods	1196	1109	...	...	...	87	...	...	...	...	...	...	...
Total softwoods	693707	239595	154744	100114	74397	51879	29367	18430	11683	6485	3324	3581	107
Select white oaks	28327	12569	6195	2867	1667	2021	1295	638	382	373	77	229	16
Select red oaks	15168	5575	3602	1839	1451	895	604	460	306	190	124	102	22
Other white oaks	34869	18016	5241	3558	3432	1329	1347	754	499	170	180	279	63
Other red oaks	102202	58956	12689	8282	6351	5584	4412	2032	1566	1190	329	741	70
Hickory	24580	10187	5590	3296	1390	1241	902	701	588	322	120	244	...
Soft maple	21568	12516	4629	2437	1097	572	182	78	36	...	22	...	...
Beech	3039	515	...	408	...	434	342	288	443	217	78	293	20
Sweetgum	159391	77504	39183	20693	8089	6027	3397	1924	1106	634	448	387	...
Tupelo-blackgum	36131	14817	7396	5322	2675	1861	1118	1220	1043	400	155	114	9
Ash	14752	7256	3075	1096	1400	982	285	413	212	...	20	13	...
Basswood	593	515	...	...	...	78	...	...	...	...	...	...	...
Yellow-poplar	13	...	...	...	...	...	...	...	...	...	...	...	13
Other hardwoods	70201	45075	13895	4728	3099	1692	662	568	255	146	37	45	...
Total hardwoods	510835	263500	101494	54528	30649	22715	14546	9078	6435	3642	1590	2447	212
All species	1204542	503095	256239	154642	105046	74593	43913	27509	18118	10127	4913	6028	319

Table 12--Volume of growing stock on timberland by species and diameter class, Southwest Louisiana, 1984

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	941.1	77.1	196.7	215.3	147.4	134.0	82.7	51.1	20.9	14.3	1.5		
Shortleaf-loblolly pine	2819.8	137.0	260.5	390.7	410.6	401.8	371.7	288.5	209.5	330.8	18.6		
Other yellow pines	1.4	...	...	...	1.4	...	...	...	...	...	...
Cypress	51.6	3.1	5.8	4.1	8.2	4.7	7.9	6.7	...	9.7	1.2		
Other softwoods	0.8	...	...	0.8	...	...	...	...	...	...	...
Total softwoods	3814.6	217.2	463.1	610.9	567.6	540.6	462.3	346.3	230.4	354.9	21.3		
Select white oaks	121.5	4.6	10.0	22.1	22.3	15.8	12.2	12.7	4.1	16.0	1.8		
Select red oaks	92.4	4.9	10.0	10.4	12.4	14.1	10.4	10.0	9.9	7.1	3.2		
Other white oaks	119.0	6.6	16.4	13.7	17.7	14.4	12.7	6.3	8.4	16.0	6.8		
Other red oaks	411.9	19.8	37.8	56.7	78.4	47.7	48.0	46.8	18.8	49.7	8.3		
Hickory	125.2	11.3	8.3	14.4	15.2	18.0	17.3	15.2	7.0	18.5	...		
Soft maple	26.8	6.1	7.0	5.2	3.6	2.0	1.6	...	1.3	...	...
Beech	60.8	0.7	...	3.3	5.6	6.1	13.2	8.2	3.2	17.7	2.8		
Sweetgum	408.2	39.0	48.8	68.2	61.9	54.3	45.9	29.6	25.6	34.8	...		
Tupelo-blackgum	148.9	8.7	13.8	17.2	16.4	27.2	32.1	16.7	7.1	9.3	0.5		
Ash	47.0	3.0	9.5	11.9	3.2	10.5	7.0	...	1.4	0.5	...		
Basswood	0.8	...	...	0.8	...	...	...	...	...	...	...
Yellow-poplar	2.6	...	...	...	...	...	...	...	...	...	2.6		
Other hardwoods	90.8	8.9	18.1	17.9	12.4	15.2	6.4	6.5	3.0	2.4	...		
Total hardwoods	1655.8	113.6	179.7	241.9	248.9	225.2	206.8	151.8	90.0	171.8	26.0		
All species	5470.5	330.7	642.8	852.9	816.5	765.8	669.1	498.1	320.4	526.8	47.3		

Table 13-Volume of growing stock in the saw-log portion of sawtimber¹ trees on timberland by species and diameter class, Southwest Louisiana, 1984

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	524.3	162.5	114.7	106.4	67.1	42.2	17.7	12.5	1.3	
Shortleaf-loblolly pine	2220.4	329.5	360.4	363.8	345.1	273.8	201.1	328.0	18.6	
Other yellow pines	1.3	...	1.3	...	...	...	...	...	...
Cypress	35.1	1.2	6.4	3.9	6.8	6.1	...	9.4	1.2	
Other softwoods	0.7	0.7	...	...	...	...	...	...	...
Total softwoods	2781.8	493.9	482.8	474.1	419.0	322.1	218.9	349.8	21.1	

Select white oaks	70.8	...	17.8	12.9	10.3	10.7	3.6	13.9	1.6	
Select red oaks	55.3	...	9.7	11.5	8.5	8.2	8.3	6.1	2.9	
Other white oaks	68.3	...	14.1	11.6	10.5	5.2	7.2	13.8	5.9	
Other red oaks	246.5	...	62.6	38.5	40.0	39.2	16.0	42.8	7.5	
Hickory	78.4	...	12.4	14.9	14.9	13.0	6.2	17.0	...	
Soft maple	7.0	...	2.8	1.7	1.3	...	1.1	...	...
Beech	49.7	...	4.5	5.1	11.3	7.1	2.9	16.0	2.8	
Sweetgum	218.1	...	44.1	43.8	41.5	28.4	25.6	34.8	...	
Tupelo-blackgum	95.4	...	12.3	22.1	28.6	15.8	6.8	9.2	0.5	
Ash	18.7	...	2.6	8.6	5.8	...	1.3	0.4	...	
Yellow-poplar	2.6	...	...	...	...	...	...	...	2.6	
Other hardwoods	38.3	...	9.8	12.6	5.4	5.8	2.6	2.2	...	
Total hardwoods	949.1	...	192.6	183.2	178.0	133.4	81.6	156.2	24.0	
All species	3730.9	493.9	675.4	657.4	597.1	455.5	300.5	506.1	45.1	

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 14-Volume of sawtimber on timberland by species and diameter class, Southwest Louisiana, 1984

Species	Diameter class (inches at breast height)									
	All classes	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 & larger	
----- Million board feet -----										
Longleaf-slash pines	2741.6	770.9	580.2	574.6	375.0	247.4	106.3	78.2	9.1	
Shortleaf-loblolly pine	13562.7	1584.9	1920.8	2119.4	2144.7	1801.8	1390.5	2452.0	148.6	
Other yellow pines	6.3	...	6.3	...	...	...	...	...	...
Cypress	168.4	5.6	25.4	17.2	31.8	30.1	...	50.8	7.5	
Other softwoods	3.7	3.7	...	...	...	...	...	...	...
Total softwoods	16482.6	2365.0	2532.7	2711.1	2551.5	2079.3	1496.8	2581.0	165.1	

Select white oaks	353.7	...	78.4	62.4	50.4	54.6	17.2	80.3	10.5	
Select red oaks	280.6	...	42.4	53.8	41.8	43.0	45.4	35.0	19.2	
Other white oaks	347.6	...	59.1	53.4	50.9	27.2	39.2	79.6	38.2	
Other red oaks	1234.5	...	269.2	179.4	199.2	201.6	85.1	250.7	49.3	
Hickory	399.5	...	53.0	68.7	73.6	68.5	33.8	101.9	...	
Soft maple	32.3	...	11.7	7.7	6.6	...	6.3	...	...
Beech	262.7	...	19.7	24.2	55.3	37.4	15.2	93.0	17.9	
Sweetgum	1085.8	...	166.1	191.5	201.1	152.3	149.5	225.4	...	
Tupelo-blackgum	452.3	...	45.1	95.3	135.6	83.5	36.5	53.1	3.2	
Ash	90.5	...	11.4	40.5	29.1	...	7.0	2.5	...	
Yellow-poplar	20.8	...	...	...	...	...	...	...	20.8	
Other hardwoods	183.0	...	42.8	58.3	26.6	28.5	14.7	12.2	...	
Total hardwoods	4743.3	...	798.7	835.1	870.1	696.7	449.8	933.7	159.1	
All species	21225.9	2365.0	3331.4	3546.2	3421.6	2776.0	1946.6	3514.7	324.2	

Table 15—Volume of growing stock and sawtimber on timberland by parish and species group, Southwest Louisiana, 1984

Parish	Growing stock						Sawtimber					
	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 -----												----- Million board feet -----
Allen	387.4	73.2	188.1	3.1	63.3	59.7	1639.9	225.8	1011.6	12.2	200.6	189.7
Beauregard	701.5	322.6	196.3	6.1	78.2	98.2	2212.4	810.4	790.4	28.1	276.8	306.7
Calcasieu	187.9	30.1	113.5	6.2	16.3	21.7	702.6	24.5	552.6	24.4	32.5	68.7
Evangeline	309.0	15.8	177.2	1.5	62.3	52.1	1293.4	36.4	884.2	0.6	200.6	171.5
Grant	580.3	17.8	376.3	3.3	50.1	132.9	2630.8	51.9	2031.5	11.9	164.1	371.3
Jefferson Davis	93.6	...	55.0	...	13.3	25.3	420.7	...	298.0	..	37.0	85.6
La Salle	407.7	75.9	164.4	5.7	31.2	130.4	1567.6	278.5	702.4	19.4	80.9	486.3
Natchitoches	712.1	32.7	435.9	4.8	81.3	157.4	2649.4	136.5	2026.7	13.2	137.1	335.8
Rapides	712.3	37.2	418.7	19.3	93.9	143.3	2880.6	68.2	2015.4	57.1	300.7	439.2
Sabine	619.6	74.1	377.2	0.9	69.7	97.7	2544.5	253.2	1855.8	2.9	125.8	306.7
Vernon	759.0	161.7	418.4	1.4	79.7	97.7	2684.2	444.9	1811.4	2.3	170.7	255.0
All parishes	5470.5	841.1	2921.1	52.4	639.4	1016.4	21225.9	2330.4	13980.2	172.1	1726.8	3016.5

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 16--Volume of timber on timberland by class of timber and species group,
Southwest Louisiana, 1984

Class of timber	All species	Softwood			Hardwood	
		Planted	Pine Natural	Other	Soft ¹	Hard ²
----- Million cubic feet -----						
Sawtimber trees:						
Saw-log portion	3730.9	448.4	2297.6	35.8	351.2	597.9
Upper-stem portion	524.1	102.3	242.6	7.7	54.7	116.9
Total	4255.0	550.6	2540.2	43.5	405.9	714.7
Poletimber trees	1215.5	290.4	380.9	8.9	233.5	301.7
All growing-stock trees	5470.5	841.1	2921.1	52.4	639.4	1016.4
Rough trees:						
Sawtimber size	289.0	7.7	31.1	4.1	72.0	174.2
Poletimber size	181.5	11.7	21.9	...	46.4	101.5
Total	470.5	19.4	53.0	4.1	118.3	275.7
Rotten trees:						
Sawtimber size	131.3	...	1.7	1.4	48.3	79.9
Poletimber size	8.3	0.1	...	...	5.3	2.8
Total	139.6	0.1	1.7	1.4	53.6	82.8
Salvable dead trees:						
Sawtimber size	34.3	8.5	12.0	...	5.8	8.0
Poletimber size	23.7	7.2	10.5	...	2.7	3.3
Total	58.0	15.7	22.5	...	8.5	11.3
All classes	6138.6	876.3	2998.3	57.9	819.9	1386.3

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, Southwest Louisiana, 1984

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	831.3	69.6	501.8	4.6	89.0	166.4	773.4	68.7	497.6	4.6	70.5	132.0
Other public	207.7	...	94.0	0.2	21.1	92.3	180.3	...	89.9	0.2	15.3	74.8
Forest industry	1779.1	330.8	872.3	9.4	211.9	354.7	1623.7	325.3	856.2	8.7	172.5	260.9
Forest industry-leased	517.3	128.1	174.1	5.0	85.3	124.8	440.3	122.1	170.1	5.0	62.4	80.7
Other private	2745.3	332.2	1333.6	38.7	404.0	636.8	2452.8	324.9	1307.4	33.9	318.7	468.0
All ownerships	6080.6	860.6	2975.8	57.9	811.4	1374.9	5470.5	841.1	2921.1	52.4	639.4	1016.4

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 parish and species group, Southwest Louisiana, 1984

Parish	Growing stock						Sawtimber					
	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 -----												
Allen	20.0	6.8	9.0	0.1	2.0	2.1	90.0	18.6	54.0	0.7	7.4	9.3
Beauregard	39.9	19.7	10.9	...	3.9	5.4	145.2	60.6	48.4	0.2	15.1	20.8
Calcasieu	8.9	3.1	5.4	0.2	-0.1	0.4	35.6	3.8	29.8	0.8	-0.1	1.4
Evangeline	13.0	1.7	8.8	...	0.7	1.8	68.0	3.2	54.9	0.1	4.7	5.1
Grant	26.0	3.0	15.6	0.2	1.9	5.2	129.2	9.5	95.2	1.0	6.0	17.4
Jefferson Davis	3.5	...	2.6	...	0.2	0.8	20.4	...	17.2	...	...	3.2
La Salle	22.4	6.1	9.8	0.3	1.4	4.8	94.9	24.4	45.4	1.3	2.9	20.8
Natchitoches	31.6	2.1	20.2	0.1	3.6	5.7	143.1	9.2	111.7	0.1	6.8	15.3
Rapides	33.4	5.2	19.3	0.3	2.4	6.2	141.0	13.1	95.0	1.4	7.9	23.6
Sabine	37.2	6.5	22.5	...	3.0	5.2	178.3	29.3	122.0	0.2	7.4	19.4
Vernon	42.9	13.8	25.2	0.1	1.3	2.5	172.4	40.5	121.3	0.3	1.4	9.0
All parishes	278.8	67.9	149.3	1.5	20.1	40.1	1218.2	212.3	794.9	6.1	59.6	145.4

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 19--Average annual removals of growing stock and sawtimber by parish and species group, Southwest Louisiana, 1984

Parish	Growing stock						Sawtimber					
	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 -----												
Allen	16.9	6.5	6.6	0.1	1.4	2.2	69.9	20.0	36.5	0.6	4.8	8.0
Beauregard	30.2	15.6	9.7	...	2.2	2.7	90.0	35.5	37.5	...	9.1	7.8
Calcasieu	6.2	1.2	1.7	0.1	1.6	1.5	24.1	5.7	6.2	0.5	6.0	5.6
Evangeline	5.5	0.8	3.6	...	0.6	0.5	16.5	0.4	13.7	...	1.6	0.8
Grant	18.7	3.9	10.8	...	0.7	3.2	88.6	14.7	62.0	...	1.6	10.2
Jefferson Davis	3.4	...	2.5	...	0.4	0.5	17.3	...	13.4	...	1.9	2.1
La Salle	18.3	3.9	11.4	...	0.9	2.0	84.1	15.9	58.3	...	3.8	6.1
Natchitoches	28.4	5.0	15.2	...	3.4	4.8	114.5	19.7	74.8	...	5.6	14.5
Rapides	24.6	8.0	10.6	...	1.4	4.6	94.7	30.1	48.9	...	1.6	14.1
Sabine	38.0	10.1	17.9	...	3.1	7.0	156.1	42.6	90.3	...	6.2	17.0
Vernon	35.3	12.8	17.7	0.2	1.9	2.7	126.9	38.9	74.6	0.8	4.8	7.9
All parishes	225.4	68.0	107.7	0.4	17.6	31.7	882.5	223.4	516.3	1.9	46.9	94.0

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.

Table 20--Average net annual growth and average annual removals of growing stock on timberland, Southwest Louisiana, 1984

Species	Growth	Removals
----- Million cubic feet -----		
Yellow pines	217.2	175.6
Other softwoods	1.5	0.4
Total softwoods	218.7	176.1
Select white-red oaks	10.4	6.7
Other white-red oaks	21.9	18.0
Hickory	2.8	4.3
Sweetgum	14.0	11.0
Ash-walnut-black cherry	2.3	1.0
Yellow-poplar	0.1	..
Other hardwoods	8.8	8.3
Total hardwoods	60.1	49.3
All species	278.8	225.4

Table 21--Average net annual growth and average annual removals of sawtimber on timberland, Southwest Louisiana, 1984

Species	Growth	Removals
----- Million board feet -----		
Yellow pines	1007.1	739.7
Other softwoods	6.1	1.9
Total softwoods	1013.2	741.6
Select white-red oaks	36.4	21.6
Other white-red oaks	81.9	48.8
Hickory	10.7	13.3
Sweetgum	38.8	27.5
Ash-walnut-black cherry	5.5	4.3
Yellow-poplar	1.2	...
Other hardwoods	30.5	25.5
Total hardwoods	205.0	141.0
All species	1218.2	882.5

Table 22--Average annual mortality of growing stock and sawtimber on timberland by species, Southwest Louisiana, 1984

Species	Growing stock	Sawtimber
- Million cubic feet - - Million board feet -		
Yellow pines	20.4	66.3
Total softwoods	20.4	66.3
Select white-red oaks	0.7	1.3
Other white-red oaks	4.0	9.0
Hickory	1.4	4.9
Sweetgum	2.6	5.8
Ash-walnut-black cherry	0.1	...
Other hardwoods	2.1	6.6
Total hardwoods	10.8	27.5
All species	31.2	93.8

Table 23-Average net annual growth and average annual removals of growing stock on timberland by ownership class and species group, Southwest Louisiana, 1984

Ownership class	Growth						Removals					
	All species	Softwood			Hardwood			All species	Softwood			Hardwood
		Pine Planted	Natural	Other	Soft ¹	Hard ²	Pine Planted		Natural	Other	Soft ¹	Hard ²
Million cubic feet												
National forest	29.3	3.8	18.2	...	2.3	4.9	18.6	6.0	9.8	...	0.4	2.4
Other public	6.6	0.1	4.4	...	0.4	1.7	7.0	1.3	4.2	...	0.4	1.2
Forest industry	93.2	29.9	46.1	0.5	5.5	11.2	88.7	32.0	40.1	...	4.0	12.5
Forest industry-leased	27.9	10.9	10.7	...	3.2	3.0	27.6	11.6	10.0	...	3.6	2.4
Other private	121.8	23.2	69.7	0.9	8.7	19.2	83.5	17.0	43.6	0.4	9.2	13.2
All ownerships	278.8	67.9	149.3	1.5	20.1	40.1	225.4	68.0	107.7	0.4	17.6	31.7

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, Southwest Louisiana, 1984

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	145.0	17.3	103.3	...	6.9	17.5	77.2	22.5	44.6	...	1.4	8.6
Other public	33.5	0.7	24.8	...	1.1	6.9	31.0	5.6	22.0	...	0.2	3.2
Forest industry	381.0	90.1	229.7	1.9	17.3	41.9	342.9	106.0	194.9	...	10.1	31.9
Forest industry-leased	114.8	35.6	54.1	0.2	13.6	11.4	101.9	40.1	43.6	...	11.0	7.3
Other private	543.9	68.5	383.0	4.0	20.7	67.7	329.6	49.1	211.2	1.9	24.3	43.0
All ownerships	1218.2	212.3	794.9	6.1	59.6	145.4	882.5	223.4	516.3	1.9	46.9	94.0

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.

Table 25--Volume of sawtimber on timberland by species and tree grade, Southwest Louisiana, 1984

Species	All grades	Grade 1	Grade 2	Grade 3	Grade 4
----- Million board feet -----					
Yellow pines	16310.6	2122.7	2581.4	11606.4	...
Cypress	168.4	42.4	29.6	96.4	...
Other softwoods	3.7	3.7	...	...	...
Total softwoods	<u>16482.6</u>	<u>2168.8</u>	<u>2611.0</u>	<u>11702.8</u>	...
Select white-red oaks	634.3	105.4	103.7	317.5	107.6
Other white-red oaks	1582.1	103.8	279.7	610.6	588.0
Hickory	399.5	23.8	121.5	199.1	55.1
Sweetgum	1085.8	282.2	354.5	338.9	110.2
Tupelo and blackgum	452.3	96.6	156.4	178.9	20.4
Ash-walnut-black cherry	115.9	9.3	55.8	44.2	6.7
Yellow-poplar	20.8	20.8	..	..	..
Other hardwoods	452.5	19.5	33.3	209.2	190.4
Total hardwoods	<u>4743.3</u>	<u>661.4</u>	<u>1104.8</u>	<u>1898.5</u>	<u>1078.6</u>
All species	21225.9	2830.2	3715.7	13601.3	1078.6

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Table 26--Area of timberland by stand age, forest type group, and type of regeneration, Southwest Louisiana, 1984

Stand Age Class	Pine		Oak-pine		Other hardwood types	
	Artificial	Natural	Artificial	Natural	Artificial	Natural
----- Thousand acres -----						
1-10	230.0	46.0	74.1	22.4	39.9	62.9
11-20	103.4	33.8	5.5	11.0	...	11.2
21-30	305.1	193.7	...	34.3	...	17.6
31-40	51.9	161.0	...	56.9	...	11.6
41-50	...	5.7	...	..	...	..
>50	...	33.9	...	5.5	...	5.7
Mixed	126.0	1019.8	...	467.7	17.8	1262.4
All classes	816.4	1493.8	79.6	597.9	57.7	1371.3

Table 27--Volume of softwood growing stock on timberland by forest type, Southwest Louisiana, 1984

Parish	Total	Forest type group						
		Longleaf-slash pine		Loblolly-shortleaf pine		Oak-pine	Oak-hickory	Oak-gum cypress
		Planted	Natural	Planted	Natural			
----- Million cubic feet -----								
Allen	264.4	62.5	...	9.7	104.7	60.4	10.9	16.2
Beauregard	525.1	287.3	65.7	35.3	89.1	31.0	4.9	11.7
Calcasieu	149.8	30.1	27.8	...	73.9	3.3	3.3	11.4
Evangeline	194.6	15.8	11.1	...	129.9	31.1	5.2	1.5
Grant	397.4	...	49.6	17.8	225.7	79.1	15.4	9.9
Jefferson Davis	55.0	...	3.3	...	22.9	19.4	0.6	8.9
La Salle	246.1	...	24.2	75.9	104.1	23.9	7.8	10.1
Natchitoches	473.4	32.7	25.4	...	331.1	62.8	16.6	5.0
Rapides	475.1	14.2	65.0	23.0	256.6	85.6	7.7	23.0
Sabine	452.2	12.4	...	60.6	268.7	76.6	27.6	6.2
Vernon	581.6	90.3	53.0	71.4	260.1	84.6	17.1	5.2
All parishes	3814.6	545.3	325.0	293.7	1866.7	557.7	116.9	109.2

Table 28--Volume of hardwood growing stock on timberland by forest type, Southwest Louisiana, 1984

Parish	Total	Forest type group						
		Longleaf-slash pine		Loblolly-shortleaf pine		Oak-pine	Oak-hickory	Oak-gum cypress
		Planted	Natural	Planted	Natural			
----- Million cubic feet -----								
Allen	123.0	...	...	0.4	4.9	26.8	13.2	77.8
Beauregard	176.4	...	1.0	3.2	9.3	17.6	18.3	127.0
Calcasieu	38.0	1.0	1.6	...	4.0	...	10.7	20.8
Evangeline	114.4	...	0.2	...	10.7	26.5	26.5	50.5
Grant	183.0	...	3.1	0.9	39.8	46.9	31.5	60.7
Jefferson Davis	38.6	...	...	...	0.5	24.9	...	13.3
La Salle	161.6	...	0.5	1.1	15.5	22.0	26.1	96.5
Natchitoches	238.8	1.1	...	...	37.0	33.9	91.1	56.5
Rapides	237.2	...	3.9	...	31.6	43.3	34.3	116.3
Sabine	167.4	2.1	...	6.6	26.9	34.1	62.5	35.2
Vernon	177.5	...	0.7	...	21.4	44.6	50.6	60.1
All parishes	1655.8	4.2	11.1	12.1	201.7	320.5	364.7	714.6
								26.9

Table 29--Volume of softwood growing stock in the saw-log portion of sawtimber trees on timberland by forest type, Southwest Louisiana, 1984

Parish	Total	Forest type group						
		Longleaf-slash pine		Loblolly-shortleaf pine		Oak-pine	Oak-hickory	Oak-gum cypress
		Planted	Natural	Planted	Natural			
----- Million cubic feet -----								
Allen	205.3	33.8	...	7.9	88.8	49.4	10.3	15.1
Beauregard	306.2	137.0	40.0	24.9	64.4	25.2	4.3	10.3
Calcasieu	100.6	5.1	20.6	...	59.9	3.0	2.4	9.7
Evangeline	153.1	7.1	4.5	...	111.7	25.7	4.0	0.1
Grant	333.4	...	36.6	10.3	195.1	69.6	12.7	9.1
Jefferson Davis	47.2	...	2.3	...	19.4	16.7	...	8.8
La Salle	169.6	20.4	51.3	68.5	16.2	5.2	8.1	
Natchitoches	369.4	25.3	14.3	...	263.1	48.9	13.9	3.9
Rapides	350.6	7.1	34.8	6.4	202.9	77.1	6.9	15.5
Sabine	352.3	9.7	...	37.9	218.0	57.2	24.1	5.4
Vernon	394.0	45.5	40.2	38.5	186.4	66.7	14.2	2.6
All parishes	2781.8	270.5	213.6	177.2	1478.2	455.6	98.1	88.6

Table 30--Volume of hardwood growing stock in the saw-log portion of sawtimber trees on timberland by forest type, Southwest Louisiana, 1984

Parish	Total	Forest type group						
		Longleaf-slash pine		Loblolly-shortleaf pine		Oak-pine	Oak-hickory	Oak-gum cypress
		Planted	Natural	Planted	Natural			
----- Million cubic feet -----								
Allen	76.6	...	...	0.4	3.2	12.1	7.8	53.0
Beauregard	116.1	...	...	0.3	6.2	10.0	8.4	91.2
Calcasieu	21.0	...	...	...	2.2	...	6.7	12.0
Evangeline	72.3	...	...	...	5.8	16.2	16.9	33.4
Grant	107.7	...	1.0	...	18.9	23.0	23.5	41.2
Jefferson Davis	24.4	...	...	...	...	16.8	...	...
La Salle	109.0	...	0.4	...	5.9	10.8	17.3	74.7
Natchitoches	100.3	...	...	...	11.9	16.3	38.4	...
Rapides	144.1	...	1.7	...	14.2	25.1	17.8	24.8
Sabine	88.7	0.9	...	3.8	8.0	17.0	34.5	81.2
Vernon	88.9	...	...	...	10.3	17.9	26.6	4.1
All parishes	949.1	0.9	3.2	4.5	86.6	165.2	197.8	477.7
								13.1

Table 31--Volume of timber on timberland by parish, class of timber and species group, Southwest Louisiana, 1984

Parish	All classes	Growing stock		Rough		Rotten	
		Softwood	Hardwood	Softwood	Hardwood	Softwood	Hardwood
----- Million cubic feet -----							
Allen	451.4	264.4	123.0	12.5	36.7	0.7	14.3
Beauregard	780.3	525.1	176.4	4.6	49.0	1.7	23.6
Calcasieu	221.5	149.8	38.0	4.6	21.3	...	7.8
Evangeline	338.4	194.6	114.4	6.7	14.8	...	8.0
Grant	627.6	397.4	183.0	6.7	27.9	0.8	11.9
Jefferson Davis	107.0	55.0	38.6	0.5	10.9	...	2.0
La Salle	443.1	246.1	161.6	2.7	28.6	...	4.1
Natchitoches	778.2	473.4	238.8	4.6	50.2	...	11.3
Rapides	779.5	475.1	237.2	7.3	48.7	...	11.2
Sabine	679.9	452.2	167.4	7.9	38.0	...	14.5
Vernon	873.6	581.6	177.5	18.6	68.0	0.1	27.9
All parishes	6080.6	3814.6	1655.8	76.5	394.0	3.2	136.4

Table 32-Number of live trees on timberland by detailed species and diameter class, Southwest Louisiana, 1984

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 pine	62106	20314	11581	8502	7160	5689	3525	2305	1580	837	376	231	8
Slash pine	140939	42103	28288	26862	23441	12782	4290	2213	696	227	21	15	...
Shortleaf pine	66955	31801	12945	7027	6277	3466	2123	1575	956	447	176	164	...
Loblolly pine	608610	272922	145163	69101	39418	30895	19263	12583	8325	4928	2834	3082	96
Other s. pines	48	...	...	...	...	...	48	...	...	...	...	...	...
Redcedar	1196	1109	...	...	...	87	...	...	...	...	...	...	...
Cypress	15792	6178	4637	1975	1227	423	580	196	219	143	...	168	46
Total softwoods	895646	374426	202615	113466	77523	53342	29829	18872	11776	6582	3406	3660	149
Select white oaks	50599	28684	9879	3703	1912	2340	1800	718	519	529	119	322	71
Selected red oaks	22745	11715	4585	2084	1451	895	604	460	395	190	143	189	34
Other white oaks	78070	48407	12993	5728	4791	1593	1804	1075	590	349	261	378	101
Other red oaks	200511	138672	22199	10634	7937	7256	5438	2565	2075	1655	544	1274	262
Sweet pecan	5053	1436	1525	1355	156	166	105	163	31	69	40	...	8
Water hickory	11965	7725	1547	873	155	299	443	238	376	100	...	182	25
Other hickories	37113	25964	4063	2954	1234	776	800	449	306	255	159	154	...
Persimmon	9147	7745	574	827	...	...	...	...	...	...	...	...	...
Hard maple	6954	6144	530	212	...	68	...	...	...	...	...	...	...
Soft maple	86536	63558	13949	5455	1433	1062	658	278	97	23	22	...	...
Boxelder	1024	1024	...	...	...	...	...	...	...	...	...	...	...
Beech	8598	4116	...	408	118	658	721	532	716	356	258	596	118
Sweetgum	314998	199924	61738	26533	10066	6852	4307	2364	1255	805	566	544	43
Blackgum	127888	93913	16873	6790	3911	2123	1188	1291	952	605	116	124	...
Other gums/tupelos	14697	8417	1684	2272	537	381	541	198	282	46	178	140	24
White ash	12931	10825	1024	435	252	69	130	85	62	23	...	28	...
Other ashes	40699	28813	6687	1326	1769	1069	380	365	150	46	39	55	...
Sycamore	452	...	206	99	92	...	38	...	...	...	...	17	...
Basswood	2155	2060	...	...	78	...	...	...	...	...	...	17	...
Yellow-poplar	13	...	...	...	...	...	...	...	...	...	...	...	13
Magnolia	4359	2290	1635	...	...	105	50	96	50	56	50	27	...
Sweetbay	28847	19678	4668	1447	1399	789	444	250	93	47	...	32	...
Willow	412	...	...	...	276	110	...	...	26	...	...	...	...
Black cherry	5617	4196	567	249	299	148	...	79	36	25	18	...	...
American elm	4340	2090	1552	168	217	...	125	36	68	70	...	15	...
Other elms	51438	42771	5340	915	1155	747	263	167	68	...	...	13	...
River birch	89	...	...	...	...	...	58	...	32	...	...	...	...
Hackberry	6754	2562	2034	1276	365	202	205	38	57	...	...	15	...
Black locust	574	...	574	...	...	...	...	...	...	...	...	...	...
Other locusts	3256	1547	1083	165	223	96	...	76	67	...	...	...	...
Sassafras	9075	6745	1618	249	153	213	57	40	...	...	...	...	...
Dogwood	77015	58846	15319	2708	...	80	62	...	...	...	...	...	...
Holly	21089	15140	3744	960	692	221	213	120	...	...	...	...	...
Other commercial	10660	8396	1573	538	116	...	...	36	...	...	...	...	...
Total hardwoods	1255673	852382	200579	80471	40439	28549	20561	11711	8326	5267	2518	4143	726
Noncommercial	296580	228662	39729	19107	5360	2134	1162	385	32	...	...	...	10
All species	2447898	1455469	442922	213044	123322	84026	51551	30968	20134	11849	5925	7803	886

Table 33-Number of growing stock-stock trees on timberland by detailed species and diameter class,
Southwest Louisiana, 1984

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 -----											
Longleaf pine	29404	8072	6996	5603	3407	2305	1580	837	376	221	8
Slash pine	65631	22848	22794	12565	4290	2175	696	227	21	15	...
Shortleaf pine	20052	5391	6024	3284	2077	1534	956	447	176	164	...
Loblolly pine	179327	61828	37356	29916	19028	12254	8232	4832	2751	3039	90
Other s. pines	48	...	...	...	48	...	...	...	...	...	...
Redcedar	87	...	...	87	...	...	...	...	...	...	...
Cypress	4820	1975	1227	423	517	162	219	143	...	143	10
Total softwoods	299368	100114	74397	51879	29367	18430	11683	6485	3324	3581	107
Select white oaks	9563	2867	1667	2021	1295	638	382	373	77	229	16
Select red oaks	5992	1839	1451	895	604	460	306	190	124	102	22
Other white oaks	11612	3558	3432	1329	1347	754	499	170	180	279	63
Other red oaks	30556	8282	6351	5584	4412	2032	1566	1190	329	741	70
Sweet pecan	1703	1073	156	166	50	163	31	46	19	...	...
Water hickory	1801	678	...	299	172	203	281	50	...	117	...
Other hickories	5299	1545	1234	776	681	335	276	226	101	127	...
Persimmon	170	170	...	...	...	...	...	...	...	...	...
Soft maple	4423	2437	1097	572	182	78	36	...	22	...	...
Beech	2524	408	...	434	342	288	443	217	78	293	20
Sweetgum	42705	20693	8089	6027	3397	1924	1106	634	448	387	...
Blackgum	10857	4064	2245	1480	748	1023	831	378	57	32	...
Other gums/tupelos	3061	1259	430	381	370	198	212	22	98	83	9
White ash	898	435	118	69	130	85	62	...	20	13	...
Other ashes	3524	661	1282	914	155	328	150	...	...	...	...
Sycamore	435	206	99	92	...	38	...	...	...	...	...
Basswood	78	...	...	78	...	...	...	...	...	...	...
Yellow-poplar	13	...	...	...	...	...	...	...	...	...	13
Magnolia	108	...	...	...	46	...	...	25	19	17	...
Sweetbay	2162	363	875	383	286	204	29	23	...	...	...
Willow	178	...	...	92	61	...	...	26	...	...	...
Black cherry	696	249	141	148	...	79	36	25	18	...	...
American elm	503	168	217	...	70	...	...	48	...	...	...
Other elms	2460	451	995	747	94	128	33	...	...	13	...
River birch	32	...	...	...	...	...	32	...	...	...	...
Hackberry	1441	1068	119	135	47	...	57	...	...	15	...
Other locusts	386	...	223	96	...	...	67	...	...	...	...
Dogwood	795	795	...	...	...	...	...	...	...	...	...
Holly	1567	960	429	...	58	120	...	...	...	...	...
Other commercial	297	297	...	...	...	...	...	...	...	...	...
Total hardwoods	145840	54528	30649	22715	14546	9078	6435	3642	1590	2447	212
All species	445208	154642	105046	74593	43913	27509	18118	10127	4913	6028	319

Table 34-Volume of growing stock on timberland by species and diameter class, Southwest Louisiana, 1984

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 pine	369.0	16.5	45.1	60.1	61.1	59.5	54.0	38.7	19.5	13.0	1.5
Slash pine	572.1	60.6	151.6	155.2	86.3	74.5	28.7	12.4	1.4	1.3	...
Shortleaf pine	277.3	12.3	40.1	41.3	42.7	49.6	40.8	24.2	12.0	14.3	...
Loblolly pine	2542.5	124.7	220.4	349.4	367.9	352.2	330.9	264.3	197.5	316.6	18.6
Other s. pines	1.4	...	...	...	1.4	...	...	...	...	...	...
Redcedar	0.8	...	...	0.8	...	...	...	...	...	...	...
Cypress	51.6	3.1	5.8	4.1	8.2	4.7	7.9	6.7	...	9.7	1.2
Total softwoods	3814.6	217.2	463.1	610.9	567.6	540.6	462.3	346.3	230.4	354.9	21.3
Select white oaks	121.5	4.6	10.0	22.1	22.3	15.8	12.2	12.7	4.1	16.0	1.8
Select red oaks	92.4	4.9	10.0	10.4	12.4	14.1	10.4	10.0	9.9	7.1	3.2
Other white oaks	119.0	6.6	16.4	13.7	17.7	14.4	12.7	6.3	8.4	16.0	6.8
Other red oaks	411.9	19.8	37.8	56.7	78.4	47.7	48.0	46.8	18.8	49.7	8.3
Sweet pecan	21.0	5.6	0.8	2.2	1.3	5.3	1.7	2.7	1.2	...	...
Water hickory	28.0	1.7	...	3.4	2.0	4.6	7.3	1.9	...	7.3	...
Other hickories	76.2	4.0	7.5	8.8	11.9	8.1	8.3	10.6	5.8	11.2	...
Persimmon	0.5	0.5	...	...	...	...	...	...	...	...	...
Soft maple	26.8	6.1	7.0	5.2	3.6	2.0	1.6	...	1.3	...	...
Beech	60.8	0.7	...	3.3	5.6	6.1	13.2	8.2	3.2	17.7	2.8
Sweetgum	408.2	39.0	48.8	68.2	61.9	54.3	45.9	29.6	25.6	34.8	...
Blackgum	109.7	6.8	11.0	13.3	10.9	22.1	25.0	16.0	2.4	2.2	...
Other gums/tupelos	39.2	1.9	2.8	3.9	5.5	5.1	7.1	0.7	4.7	7.1	0.5
White ash	9.2	1.1	0.8	0.8	1.4	2.4	2.7	...	...	...	...
Other ashes	37.7	1.9	8.7	11.1	1.8	8.1	4.3	...	1.4	0.5	...
Sycamore	3.8	0.4	1.0	1.0	...	1.2	...	...	...	...	...
Basswood	0.8	...	...	0.8	...	...	...	...	...	...	...
Yellow-poplar	2.6	...	...	...	...	...	...	...	...	...	2.6
Magnolia	5.8	...	...	...	1.5	...	...	1.3	2.0	1.0	...
Sweetbay	24.4	1.1	5.8	4.7	5.2	6.0	0.6	1.0	...	...	...
Willow	3.0	...	...	0.5	1.4	...	...	1.1	...	...	...
Black cherry	8.6	0.4	1.0	1.3	...	2.4	1.6	1.0	1.0	...	...
American elm	5.1	0.5	1.6	...	0.8	...	...	2.1	...	...	...
Other elms	20.0	0.8	5.2	7.7	1.6	3.2	0.8	...	...	0.7	...
River birch	0.7	...	...	...	...	...	0.7	...	...	...	...
Hackberry	7.5	1.7	0.6	1.6	1.2	...	1.7	...	...	0.7	...
Other locusts	3.0	...	1.0	1.1	...	...	1.0	...	...	...	...
Dogwood	1.1	1.1	...	...	...	...	...	...	...	...	...
Holly	7.0	2.1	1.9	...	0.7	2.4	...	...	...	...	...
Other commercial	0.2	0.2	...	...	...	...	...	...	...	...	...
Total hardwoods	1655.8	113.6	179.7	241.9	248.9	225.2	206.8	151.8	90.0	171.8	26.0
All species	5470.5	330.7	642.8	852.9	816.5	765.8	669.1	498.1	320.4	526.8	47.3

Table 35—Volume of growing stock in the saw-log portion of sawtimber trees on timberland by detailed species and diameter class, Southwest Louisiana, 1984

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 pine	244.9	45.1	47.5	47.3	43.8	32.0	16.6	11.3	1.3
Slash pine	279.4	117.3	67.2	59.0	23.3	10.2	1.2	1.2	...
Shortleaf pine	204.0	34.7	37.4	44.9	38.1	23.2	11.5	14.0	...
Loblolly pine	2016.4	294.8	323.0	318.9	307.0	250.6	189.6	314.0	18.6
Other s. pines	1.3	...	1.3	...	...	...	...	...	...
Redcedar	0.7	0.7	...	...	...	...	...	...	...
Cypress	35.1	1.2	6.4	3.9	6.8	6.1	...	9.4	1.2
Total softwoods	2781.8	493.9	482.8	474.1	419.0	322.1	218.9	349.8	21.1
Select white oaks	70.8	...	17.8	12.9	10.3	10.7	3.6	13.9	1.6
Select red oaks	55.3	...	9.7	11.5	8.5	8.2	8.3	6.1	2.9
Other white oaks	68.3	...	14.1	11.6	10.5	5.2	7.2	13.8	5.9
Other red oaks	246.5	...	62.6	38.5	40.0	39.2	16.0	42.8	7.5
Sweet pecan	10.4	...	1.1	4.3	1.5	2.4	1.1	...	...
Water hickory	19.9	...	1.7	3.8	6.2	1.5	...	6.6	...
Other hickories	48.1	...	9.6	6.7	7.2	9.1	5.0	10.4	...
Soft maple	7.0	...	2.8	1.7	1.3	...	1.1	...	...
Beech	49.7	...	4.5	5.1	11.3	7.1	2.9	16.0	2.8
Sweetgum	218.1	...	44.1	43.8	41.5	28.4	25.6	34.8	...
Blackgum	67.8	...	7.8	17.9	22.3	15.2	2.4	2.2	...
Other gums/tupelos	27.5	...	4.5	4.2	6.2	0.6	4.4	7.0	0.5
White ash	5.4	...	1.2	2.0	2.3	...	...	...	...
Other ashes	13.3	...	1.4	6.6	3.6	...	1.3	0.4	...
Sycamore	1.0	...	...	1.0	...	...	...	...	...
Yellow-poplar	2.6	...	...	...	...	...	...	...	2.6
Magnolia	4.9	...	1.2	...	...	1.1	1.8	0.9	...
Sweetbay	10.5	...	4.1	5.0	0.5	0.9	...	...	...
Willow	2.1	...	1.1	...	1.3	1.0	...	...	...
Black cherry	5.0	...	...	1.9	...	1.9	...	...	...
American elm	2.6	...	0.7	...	...	...	...	0.6	...
Other elms	5.1	...	1.2	2.7	0.7	...	...	...	...
River birch	0.6	...	...	...	0.6	...	...	...	...
Hackberry	3.2	...	1.0	...	1.5	...	...	0.7	...
Other locusts	0.8	...	...	...	0.8	...	...	...	...
Holly	2.5	...	0.6	1.9	...	...	...	...	...
Total hardwoods	949.1	...	192.6	183.2	178.0	133.4	81.6	156.2	24.0
All species	3730.9	493.9	675.4	657.4	597.1	455.5	300.5	506.1	45.1

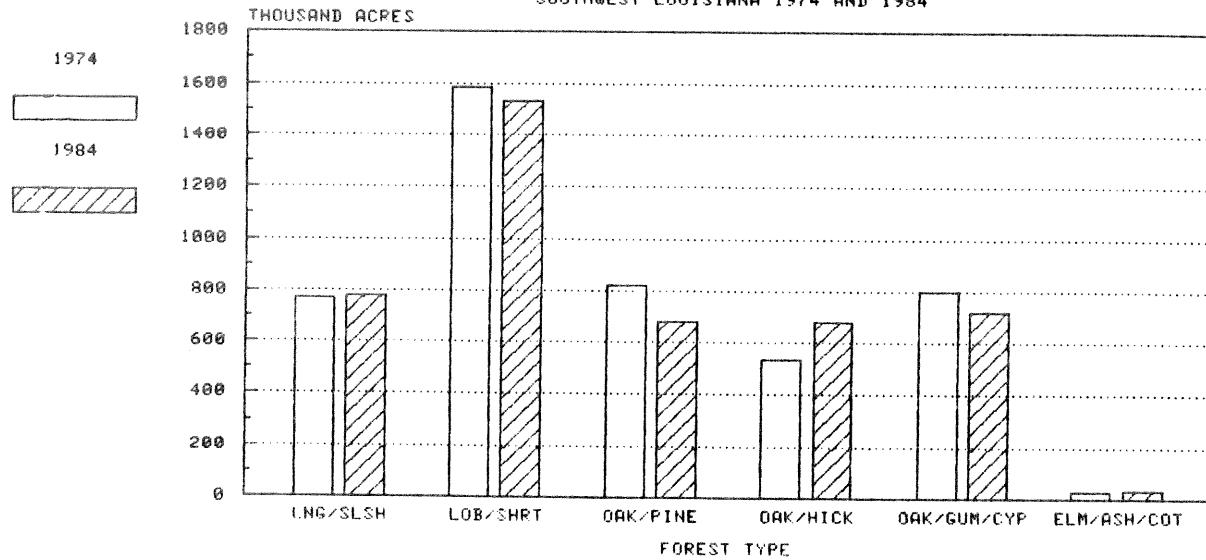
Table 36—Volume of timber on timberland by species and class of timber, Southwest Louisiana, 1984

Species	All live	Growing stock	Rough	Rotten
----- Million cubic feet -----				
Longleaf pine	373.7	369.0	4.8	...
Slash pine	585.4	572.1	13.3	...
Shortleaf pine	282.7	277.3	5.4	...
Loblolly pine	2593.2	2542.5	48.9	1.8
Other s. pines	1.4	1.4	...	...
Redcedar	0.8	0.8	...	...
Cypress	57.1	51.6	4.1	1.4
Total softwoods	3894.3	3814.6	76.5	3.2
Select white oaks	154.4	121.5	23.1	9.8
Select red oaks	102.1	92.4	7.8	1.8
Other white oaks	151.1	119.0	23.1	9.0
Other red oaks	520.4	411.9	75.9	32.6
Sweet pecan	25.9	21.0	5.0	...
Water hickory	41.5	28.0	12.7	0.7
Other hickories	86.9	76.2	8.2	2.5
Persimmon	1.6	0.5	1.1	...
Hard maple	0.7	...	0.7	...
Soft maple	43.8	26.8	14.5	2.5
Beech	105.3	60.8	23.3	21.2
Sweetgum	480.3	408.2	46.3	25.9
Blackgum	147.0	109.7	25.6	11.7
Other gums/tupelos	53.1	39.2	5.8	8.0
White ash	13.1	9.2	3.8	...
Other ashes	48.5	37.7	8.9	1.8
Sycamore	4.9	3.8	1.2	...
Basswood	1.9	0.8	1.1	...
Yellow-poplar	2.6	2.6	...	...
Magnolia	16.8	5.8	8.9	2.2
Sweetbay	39.5	24.4	11.4	3.7
Willow	4.9	3.0	1.0	0.9
Black cherry	9.1	8.6	0.5	...
American elm	8.4	5.1	3.3	...
Other elms	25.2	20.0	5.2	...
River birch	1.3	0.7	0.7	...
Hackberry	11.9	7.5	4.0	0.3
Other locusts	4.1	3.0	1.1	...
Sassafras	3.8	...	2.8	1.0
Dogwood	3.0	1.1	1.8	...
Holly	10.9	7.0	3.0	0.8
Other commercial	1.5	0.2	1.3	...
Total hardwoods	2125.4	1655.8	333.1	136.4
Noncommercial	60.9	...	60.9	...
All species	6080.6	5470.5	470.5	139.6

GRAPHICS

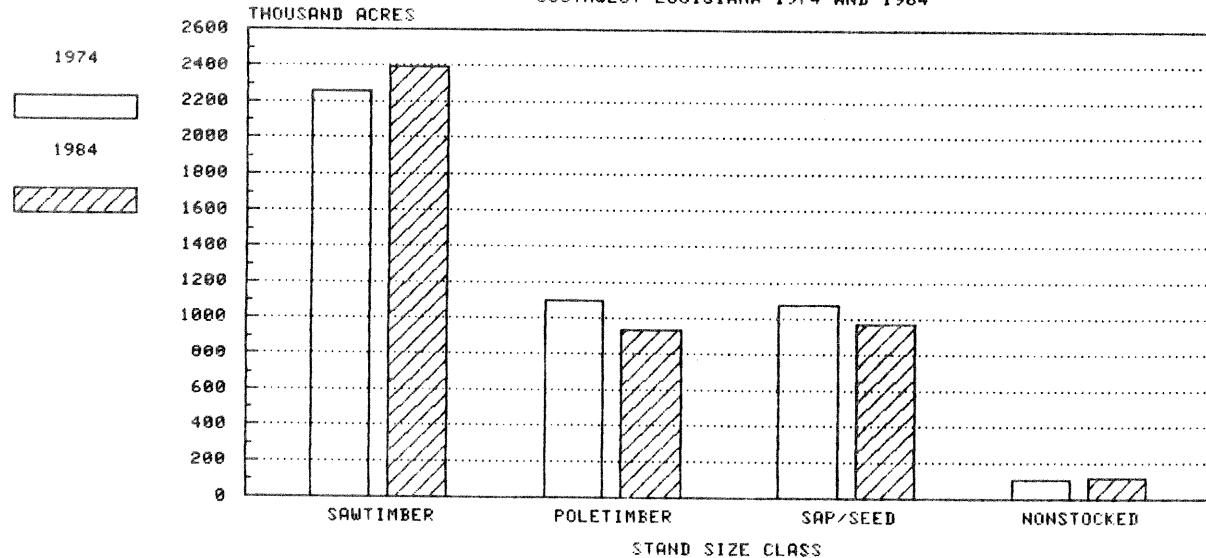
AREA OF TIMBERLAND BY FOREST TYPE

SOUTHWEST LOUISIANA 1974 AND 1984



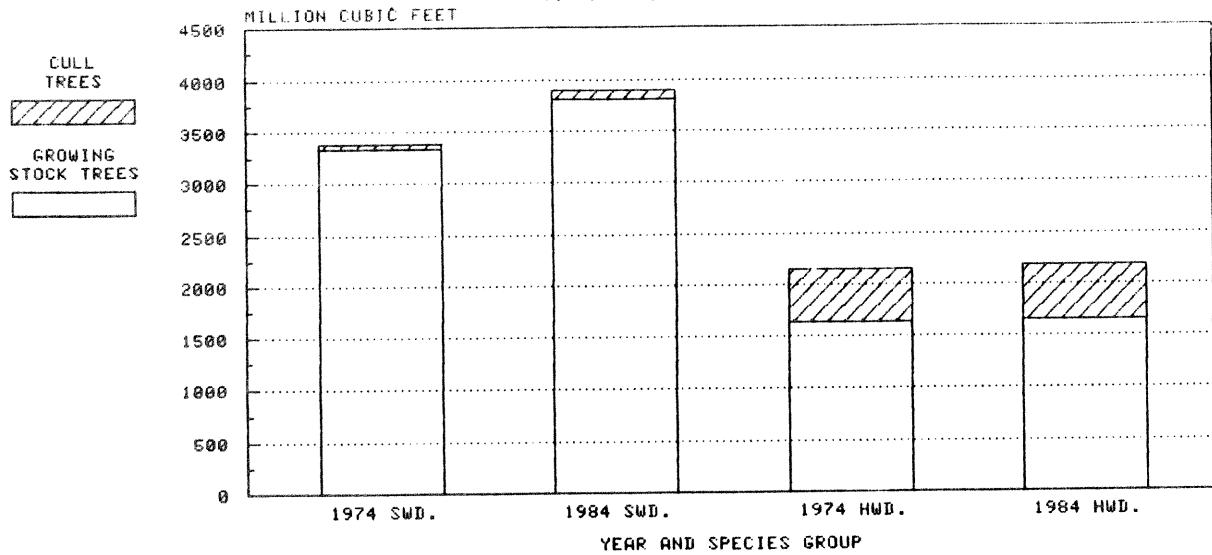
AREA OF TIMBERLAND BY STAND SIZE CLASS

SOUTHWEST LOUISIANA 1974 AND 1984



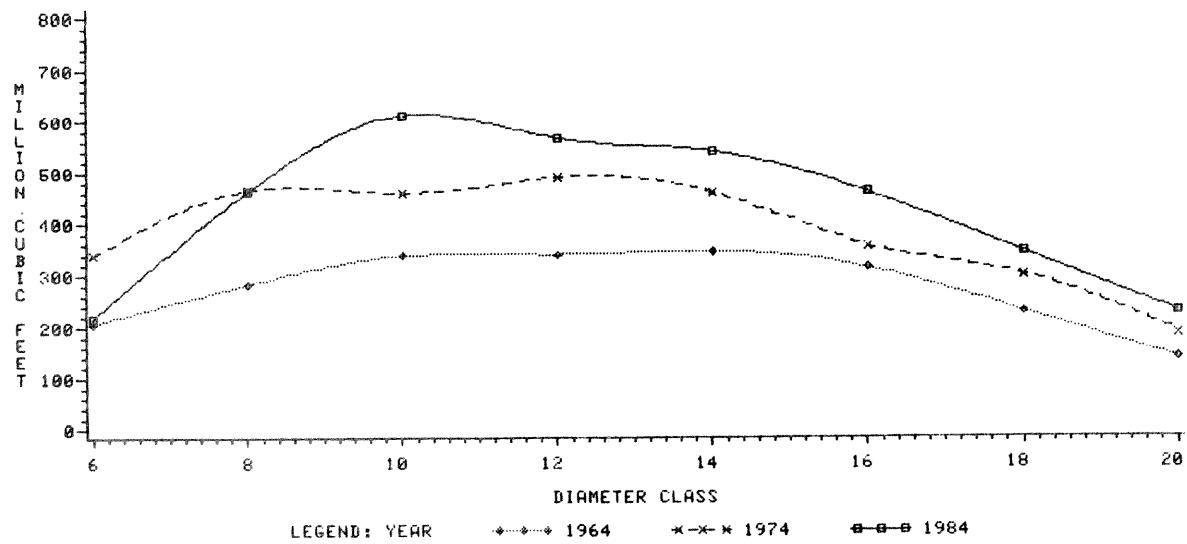
TIMBER VOLUME BY TREE CLASS AND SPECIES

SOUTHWEST LOUISIANA 1974 AND 1984



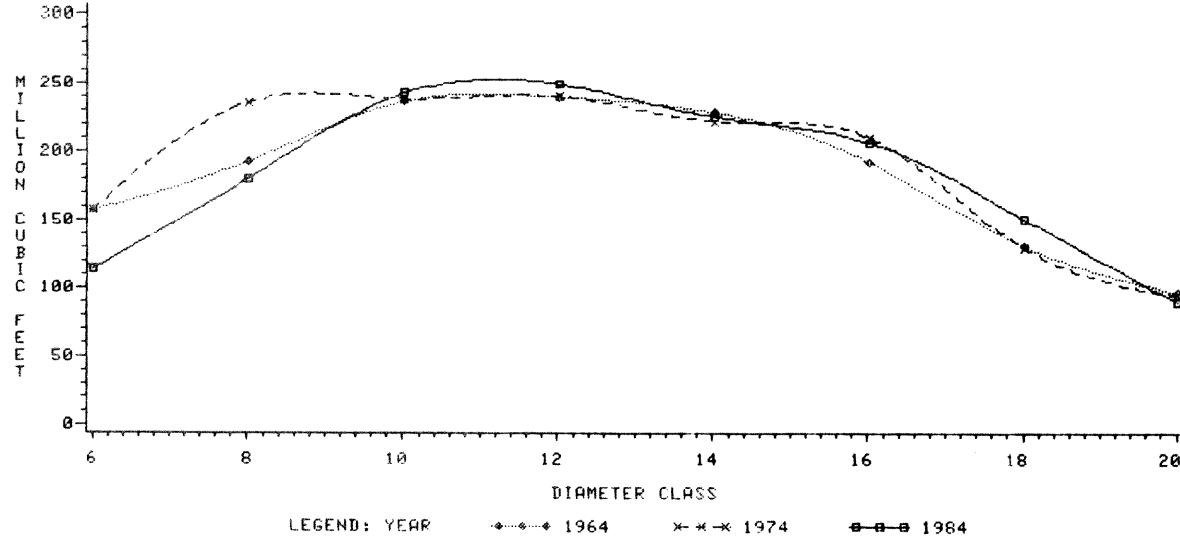
SOFTWOOD GROWING STOCK VOLUME BY DBH CLASS

SOUTHWEST LOUISIANA 1964, 1974, AND 1984



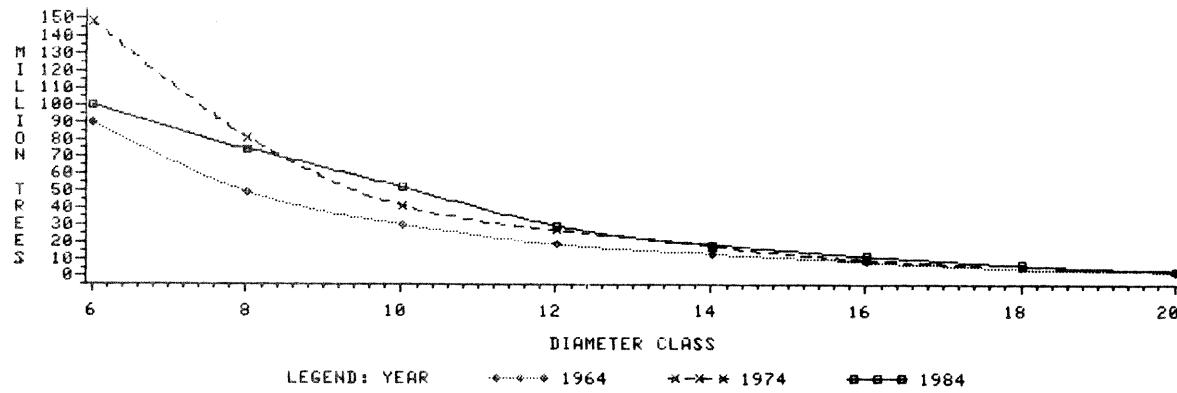
HARDWOOD GROWING STOCK VOLUME BY DBH CLASS

SOUTHWEST LOUISIANA 1964, 1974, AND 1984



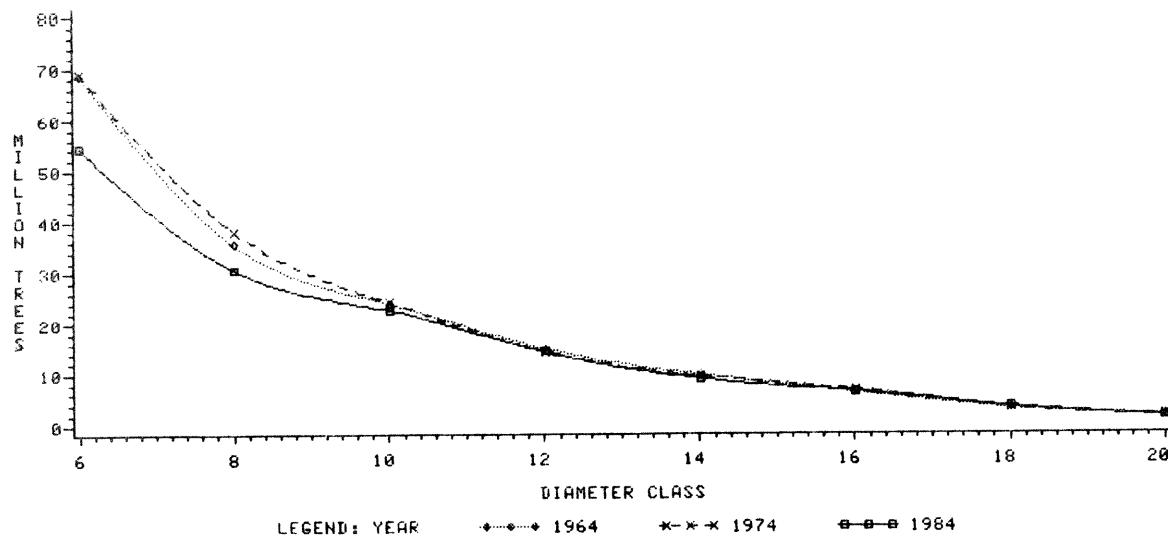
NUMBER OF SOFTWOOD GROWING STOCK TREES BY DBH CLASS

SOUTHWEST LOUISIANA 1964, 1974, AND 1984



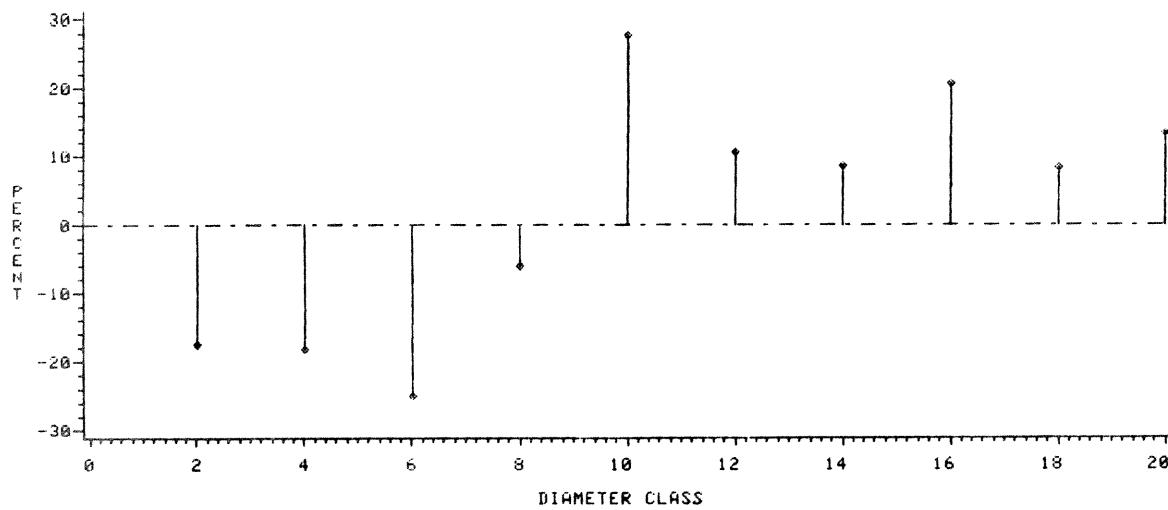
NUMBER OF HARDWOOD GROWING STOCK TREES BY DBH CLASS

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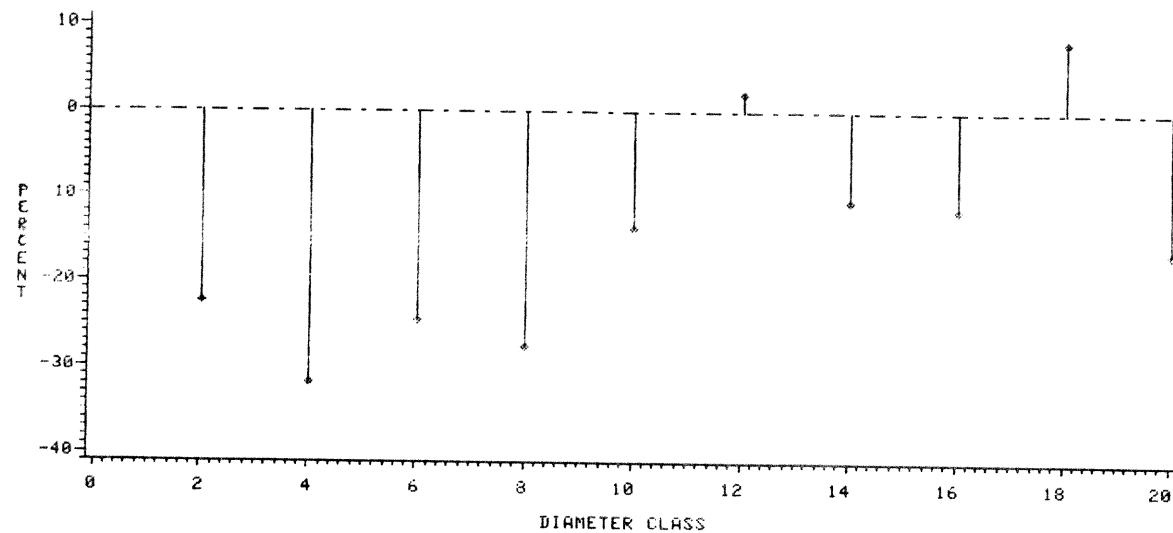


CHANGE IN NUMBER OF LIVE SOFTWOOD TREES

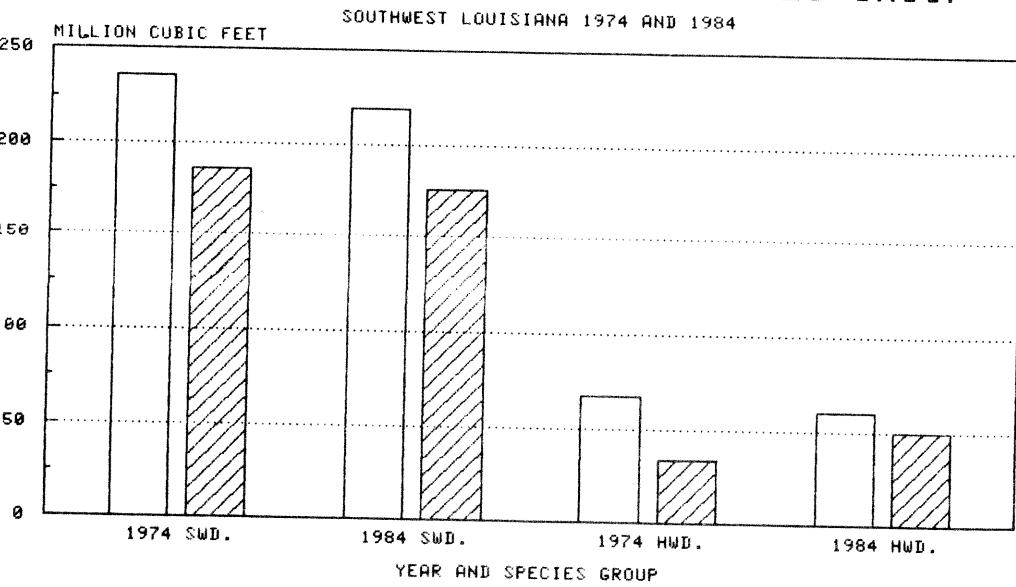
SOUTHWEST LOUISIANA 1974 TO 1984



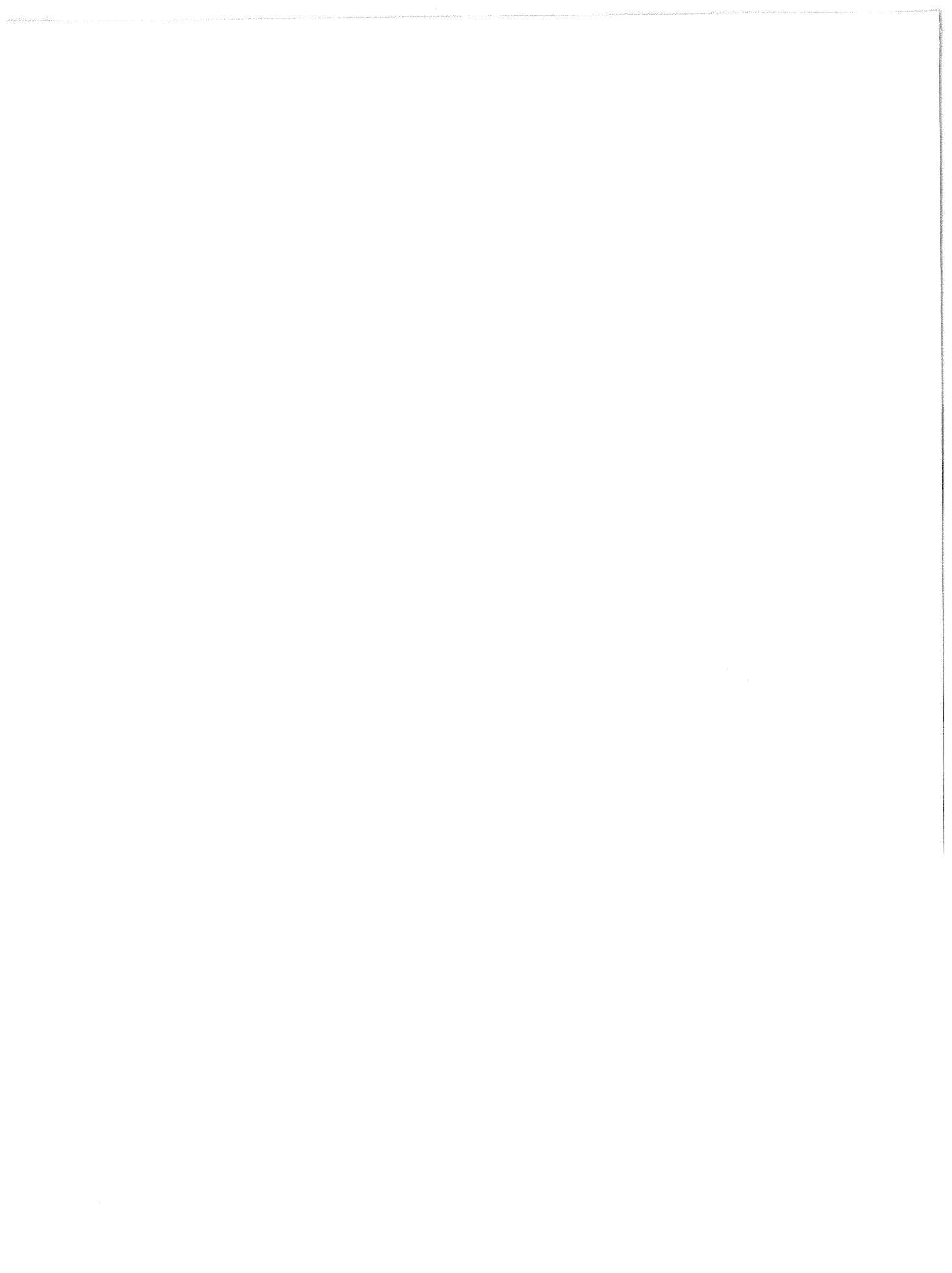
CHANGE IN NUMBER OF LIVE HARDWOOD TREES
SOUTHWEST LOUISIANA 1974 TO 1984



GROWTH AND REMOVALS BY SPECIES GROUP



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Forest Statistics for Southwest Louisiana
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1985. 31 p.

Tabulates forest resource information from
a new inventory of the Southwest Unit of
Louisiana.

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

