Hedlund

U. S. Department of Agriculture
Forest Service Resource Bulletin SO-49

Forest Statistics for Southeast Louisiana Parishes

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Southern Forest Experiment Station
New Orleans, Louisiana
Forest Service, U. S. Department of Agriculture

1974

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—cords	11
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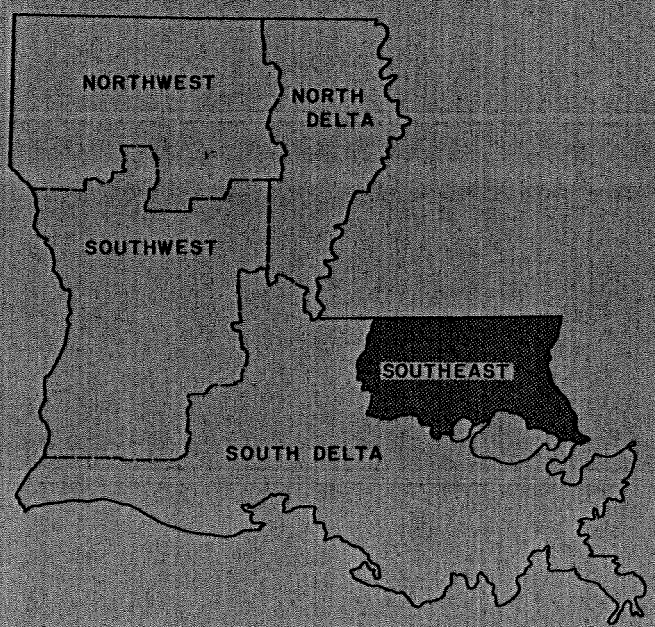

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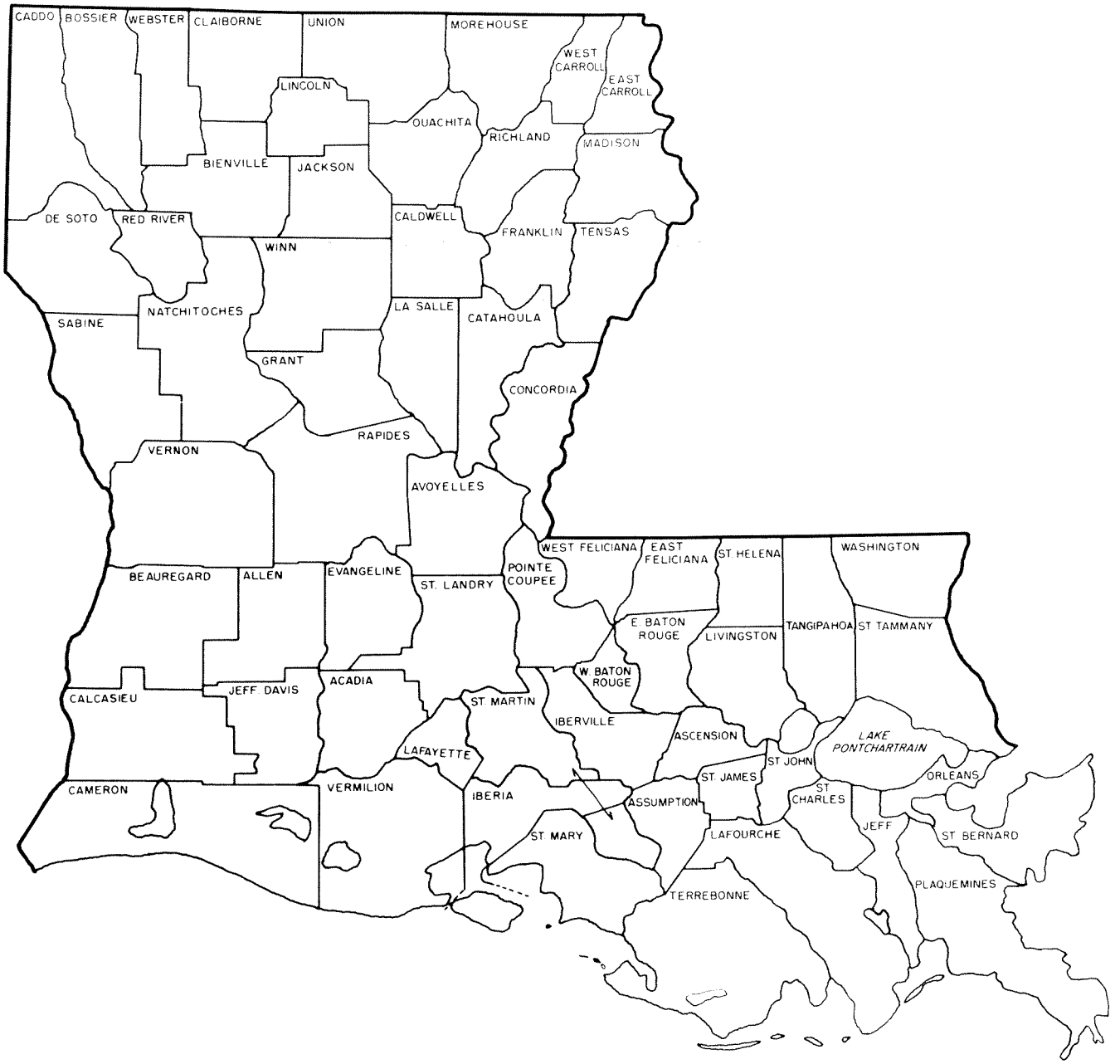
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WEBSTER
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MOREHOUSE
WEST CARROLL
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BIENVILLE
JACKSON
DE SOTO
RED RIVER
CALDWELL
FRANKLIN
TENSAS
WINN
SABINE
NATCHITOCHES
LA SALLE
CATAHOULA
GRANT
CONCORDIA
RAPIDES
VERNON
AVOYELLES
WEST FELICIANA
EAST FELICIANA
ST. HELENA
WASHINGTON
BEAUREGARD
ALLEN
EVANGELINE
ST. LANDRY
POINTE COUPEE
E. BATON ROUGE
LIVINGSTON
TANGIPAHOA
ST. TAMMANY
W. BATON ROUGE
CALCASIEU
JEFF. DAVIS
ACADIA
ST. MARTIN
IBERVILLE
ASCENSION
LAKE PONTCHARTRAIN
LAFAYETTE
ST. JOHN
ST. JAMES
ORLEANS
CAMERON
VERMILION
IBERIA
ASSUMPTION
ST. CHARLES
ST. MARY
LAFOURCHE
JEFF
ST. BERNARD
PLAQUEMINES
TERREBONNE

This report tabulates information from a new forest inventory of parishes in southeastern Louisiana. The tables are intended for use as source data in compiling estimates for groups of parishes. Because the sampling procedure is designed primarily to furnish inventory data for the State as a whole, estimates for individual parishes have limited and variable accuracy.

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 forested location, 10 small plots were uniformly distributed on an area of about 1 acre.

The sampling errors to which the parish area and volume totals are liable (on a probability of two chances out of three) are shown in table 1.

Table 1. *Sampling errors*[1] *for forest land and timber volume, 1974*

Parish	Commercial forest land	Growing stock	Sawtimber
	— — — *Percent* — — —		
East Baton Rouge	3	13	18
East Feliciana	3	13	17
Livingston	3	11	14
St. Helena	3	14	20
St. Tammany	2	9	12
Tangipahoa	2	11	16
Washington	2	14	18
All parishes	1.0	4.6	6.1

[1] By random-sampling formula.

An approximation of sampling errors for groups of parishes may be obtained by using the formula:

$$e = \frac{(SE)\sqrt{\text{specified volume or area}}}{\sqrt{\text{volume or area total in question}}}$$

Where: e = Estimated sampling error of the volume or area total in question

SE = Specified sampling error for the State.

The error decreases when data for two or more parishes are grouped. Conversely, as data for individual parishes are broken down by various subdivisions, the possibility of error increases and is greatest for the smallest items. Sampling errors associated with the estimates of the principal timber species in this report are shown in table 2.

Table 2. *Sampling errors for timber volume by species, 1974*

Species	Growing stock	Sawtimber
	— *Percent* —	
Softwood:		
Longleaf pine	26	27
Slash pine	20	26
Shortleaf pine	24	28
Loblolly pine	10	11
Spruce pine	22	22
Cypress	22	24
All softwoods	5.9	7.3
Hardwood:		
Select white oaks	25	31
Select red oaks	22	27
Other white oaks	18	23
Other red oaks	11	12
Hickory	48	(1)
Soft maple	21	32
Beech	42	45
Sweetgum	11	13
Blackgum	18	24
Other gums	26	29
White ash	42	(1)
Other ashes	34	44
Yellow-poplar	23	28
Magnolia	32	30
Sweetbay	28	39
Willow	44	(1)
American elm	30	41
Other elms	33	(1)
Dogwood	40	. . .
Holly	46	. . .
Other commercial	(1)	(1)
All hardwoods	7.4	11.2
All species	4.6	6.1

[1] Exceeds 50 percent.

Because of differences in standards of tree measurement, direct comparisons cannot be made between the estimates in this report and those from the survey of 1964. In table 3, changes between the two surveys are sum-

marized in terms of current measurement standards.

Table 3. *Change* [1] *in forest resource since 1964*

Item	Change
	Percent
Commercial forest land	− 5
Growing-stock volume:	
Softwood	+ 10
Hardwood	− 6
All species	+ 3
Sawtimber volume:	
Softwood	+ 9
Hardwood	− 8
All species	+ 4

[1] Based on current measurement standards.

Data for other parishes of Louisiana will be published as field work progresses. A Statewide interpretive report will be issued when all parishes have been inventoried; it will include an evaluation of timber trends since 1964.

DEFINITIONS OF TERMS

Acceptable trees.—Growing-stock trees of commercial species that meet specified standards of size and quality but do not qualify as desirable trees.

Commercial forest land.—Forest land producing or capable of producing crops of industrial wood and not withdrawn from timber utilization.

Desirable trees.—Growing-stock trees that are of commercial species, have no defects in quality for timber products, are of relatively high vigor, and contain no pathogens that may result in death or serious deterioration before rotation age.

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

Growing-stock trees.—Live trees that are of commercial species and qualify as desirable or acceptable trees.

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 its suitability for growing certain species groups—pine, upland hardwood, or bottomland hardwood.

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 or 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 ¼-inch rule.

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.

Table 4. *Total area, commercial forest land, and proportion of total area, 1974*

Parish	Total area[1]	Commercial forest	
		Area	Proportion
	- Thousand acres -		*-Percent-*
East Baton Rouge	302.1	106.4	35
East Feliciana	290.6	162.8	56
Livingston	443.5	336.0	76
St. Helena	268.8	198.0	74
St. Tammany	738.5	378.2	51
Tangipahoa	543.4	306.0	56
Washington	425.6	298.9	70
All parishes	3,012.5	1,786.3	59

[1] Source: United States Bureau of the Census, Land and Water Area of the United States.

Table 5. *Commercial forest land by ownership class, 1974*

Parish	All ownerships	National forest	Other public	Forest industry	Farmer	Misc. private
			-Thousand acres			
East Baton Rouge	106.4	...	3.0	...	38.5	64.9
East Feliciana	162.8	...	3.0	22.2	94.6	43.0
Livingston	336.0	...	.9	156.0	23.6	155.5
St. Helena	198.0	...	.2	105.6	38.9	53.3
St. Tammany	378.2	...	29.1	...	24.4	324.7
Tangipahoa	306.0	...	4.6	35.7	55.2	210.5
Washington	298.9	...	1.0	128.1	66.0	103.8
All parishes	1,786.3	...	41.8	447.6	341.2	955.7

Table 6. *Commercial forest land by forest type, 1974*

Parish	All types	Longleaf-slash pine	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood
			-Thousand acres				
East Baton Rouge	106.4	...	...	5.6	39.2	50.4	11.2
East Feliciana	162.8	...	59.2	29.6	44.4	29.6	...
Livingston	336.0	...	120.0	72.0	30.0	108.0	6.0
St. Helena	198.0	...	132.0	26.4	39.6	...	...
St. Tammany	378.2	111.6	80.6	18.6	68.2	99.2	...
Tangipahoa	306.0	51.0	66.3	35.7	56.1	91.8	5.1
Washington	298.9	48.8	79.3	48.8	73.2	48.8	...
All parishes	1,786.3	211.4	537.4	236.7	350.7	427.8	22.3

Table 7. *Commercial forest land by stand-size class, 1974*

Parish	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
			Thousand acres		
East Baton Rouge	106.4	56.0	22.4	28.0	...
East Feliciana	162.8	111.0	22.2	29.6	...
Livingston	336.0	192.0	36.0	108.0	...
St. Helena	198.0	112.2	33.0	52.8	...
St. Tammany	378.2	204.6	80.6	62.0	31.0
Tangipahoa	306.0	163.2	81.6	51.0	10.2
Washington	298.9	164.7	6.1	115.9	12.2
All parishes	1,786.3	1,003.7	281.9	447.3	53.4

Table 8. *Commercial forest land by site class, 1974*

Parish	All classes	165 cu. ft. or more	120-165 cu. ft.	85-120 cu. ft.	50-85 cu. ft.	Less than 50 cu. ft.
			Thousand acres			
East Baton Rouge	106.4	11.2	16.8	61.6	16.8	...
East Feliciana	162.8	...	37.0	103.6	22.2	...
Livingston	336.0	12.0	150.0	102.0	72.0	...
St. Helena	198.0	6.6	59.4	99.0	26.4	6.6
St. Tammany	378.2	6.2	31.0	93.0	217.0	31.0
Tangipahoa	306.0	...	61.2	107.1	112.2	25.5
Washington	298.9	...	...	54.9	213.5	30.5
All parishes	1,786.3	36.0	355.4	621.2	680.1	93.6

Table 9. *Commercial forest land by physiographic site class, 1974*

Parish	All sites	Pine	Upland hardwood	Bottomland hardwood
		Thousand acres		
East Baton Rouge	106.4	28.0	16.8	61.6
East Feliciana	162.8	133.2	...	29.6
Livingston	336.0	210.0	...	126.0
St. Helena	198.0	191.4	...	6.6
St. Tammany	378.2	272.8	6.2	99.2
Tangipahoa	306.0	188.7	10.2	107.1
Washington	298.9	237.9	6.1	54.9
All parishes	1,786.3	1,262.0	39.3	485.0

Table 10. *Growing-stock volume on commercial forest land by physiographic site class and species group, 1974*

Parish	All sites		Pine		Upland hardwood		Bottomland hardwood	
	Softwood	Hardwood	Softwood	Hardwood	Softwood	Hardwood	Softwood	Hardwood
	Million cubic feet							
East Baton Rouge	13.5	73.6	4.9	18.7	...	8.4	8.6	46.5
East Feliciana	138.2	79.6	126.6	48.5	...	...	11.6	31.1
Livingston	210.0	189.4	166.3	45.4	...	...	43.7	144.0
St. Helena	173.9	41.7	164.3	37.0	...	...	9.6	4.7
St. Tammany	268.0	144.6	247.8	39.0	1.8	7.9	18.4	97.7
Tangipahoa	186.0	127.7	151.7	37.6	...	9.3	34.3	80.8
Washington	195.2	75.7	184.1	24.6	2.2	12.1	8.9	39.0
All parishes	1,184.8	732.3	1,045.7	250.8	4.0	37.7	135.1	443.8

Table 11. *Cordage of growing stock on commercial forest land by species group, 1974*

Parish	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
	Thousand cords							
East Baton Rouge	1,279	180	88	92	1,099	461	379	259
East Feliciana	3,031	1,843	1,843	...	1,188	618	324	246
Livingston	5,627	2,800	2,461	339	2,827	646	1,872	309
St. Helena	2,941	2,319	2,319	...	622	363	204	55
St. Tammany	5,731	3,573	3,346	227	2,158	509	1,243	406
Tangipahoa	4,386	2,480	2,244	236	1,906	543	966	397
Washington	3,733	2,603	2,532	71	1,130	273	387	470
All parishes	26,728	15,798	14,833	965	10,930	3,413	5,375	2,142

Table 12. *Growing-stock volume on commercial forest land by species group, 1974*

Parish	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
	Million cubic feet							
East Baton Rouge	87.1	13.5	6.6	6.9	73.6	30.9	25.4	17.3
East Feliciana	217.8	138.2	138.2	...	79.6	41.4	21.7	16.5
Livingston	399.4	210.0	184.6	25.4	189.4	43.3	125.4	20.7
St. Helena	215.6	173.9	173.9	...	41.7	24.3	13.7	3.7
St. Tammany	412.6	268.0	251.0	17.0	144.6	34.1	83.3	27.2
Tangipahoa	313.7	186.0	168.3	17.7	127.7	36.4	64.7	26.6
Washington	270.9	195.2	189.9	5.3	75.7	18.3	25.9	31.5
All parishes	1,917.1	1,184.8	1,112.5	72.3	732.3	228.7	360.1	143.5

Table 13. *Sawtimber volume on commercial forest land by species group, 1974*

Parish	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
	Million board feet							
East Baton Rouge	291.3	59.3	29.2	30.1	232.0	102.6	76.6	52.8
East Feliciana	865.6	601.0	601.0	...	264.6	170.1	51.3	43.2
Livingston	1,386.0	934.7	838.3	96.4	451.3	151.5	257.6	42.2
St. Helena	802.9	697.8	697.8	...	105.1	71.6	25.2	8.3
St. Tammany	1,582.7	1,142.4	1,051.1	91.3	440.3	131.9	233.8	74.6
Tangipahoa	1,090.6	716.3	674.3	42.0	374.3	125.4	163.6	85.3
Washington	1,058.8	826.4	804.7	21.7	232.4	55.1	75.1	102.2
All parishes	7,077.9	4,977.9	4,696.4	281.5	2,100.0	808.2	883.2	408.6

Table 14. *Sawtimber volume on commercial forest land by species group and diameter class, 1974*

Parish	All species	Softwood			Hardwood		
		Total	9.0-14.9 inches	15.0 inches and up	Total	11.0-14.9 inches	15.0 inches and up
	Million board feet						
East Baton Rouge	291.3	59.3	14.4	44.9	232.0	79.0	153.0
East Feliciana	865.6	601.0	307.0	294.0	264.6	109.5	155.1
Livingston	1,386.0	934.7	387.5	547.2	451.3	133.9	317.4
St. Helena	802.9	697.8	367.0	330.8	105.1	54.3	50.8
St. Tammany	1,582.7	1,142.4	668.2	474.2	440.3	200.2	240.1
Tangipahoa	1,090.6	716.3	351.4	364.9	374.3	124.5	249.8
Washington	1,058.8	826.4	583.8	242.6	232.4	78.6	153.8
All parishes	7,077.9	4,977.9	2,679.3	2,298.6	2,100.0	780.0	1,320.0

Table 15. *Growing-stock volume of softwoods on commercial forest land by forest type, 1974*

Parish	All types	Longleaf-slash pine	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood
	Million cubic feet						
East Baton Rouge	13.5	...	...	3.5	1.4	7.8	0.8
East Feliciana	138.2	...	94.7	26.2	5.7	11.6	...
Livingston	210.0	...	114.2	58.1	3.4	33.0	1.3
St. Helena	173.9	...	143.2	23.6	7.1	...	...
St. Tammany	268.0	118.3	111.1	10.4	9.8	18.4	...
Tangipahoa	186.0	31.4	98.1	19.6	10.7	25.4	.8
Washington	195.2	65.6	94.2	21.2	5.5	8.7	...
All parishes	1,184.8	215.3	655.5	162.6	43.6	104.9	2.9

Table 16. *Growing-stock volume of hardwoods on commercial forest land by forest type, 1974*

Parish	All types	Longleaf-slash pine	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood
			Million cubic feet				
East Baton Rouge	73.6	...	...	3.8	23.3	41.7	4.8
East Feliciana	79.6	...	12.5	15.3	20.7	31.1	...
Livingston	189.4	...	4.5	37.4	7.8	138.1	1.6
St. Helena	41.7	...	12.6	13.0	16.1	...	...
St. Tammany	144.6	0.5	15.9	6.4	24.1	97.7	...
Tangipahoa	127.7	.9	10.9	13.1	26.9	72.6	3.3
Washington	75.7	3.0	10.2	7.9	18.2	36.4	...
All parishes	732.3	4.4	66.6	96.9	137.1	417.6	9.7

Table 17. *Sawtimber volume of softwoods on commercial forest land by forest type, 1974*

Parish	All types	Longleaf-slash pine	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood
			Million board feet				
East Baton Rouge	59.3	...	...	18.5	3.3	33.4	4.1
East Feliciana	601.0	...	370.5	133.1	23.1	74.3	...
Livingston	934.7	...	498.1	278.6	14.3	138.6	5.1
St. Helena	697.8	...	544.0	128.9	24.9	...	...
St. Tammany	1,142.4	433.1	509.0	48.5	53.0	98.8	...
Tangipahoa	716.3	85.9	405.9	84.8	53.1	82.5	4.1
Washington	826.4	248.7	415.9	94.5	29.2	38.1	...
All parishes	4,977.9	767.7	2,743.4	786.9	200.9	465.7	13.3

Table 18. *Sawtimber volume of hardwoods on commercial forest land by forest type, 1974*

Parish	All types	Longleaf-slash pine	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood
			Million board feet				
East Baton Rouge	232.0	...	...	8.4	54.8	152.1	16.7
East Feliciana	264.6	...	28.0	42.2	68.8	125.6	...
Livingston	451.3	...	5.6	76.4	23.0	341.6	4.7
St. Helena	105.1	...	25.2	40.6	39.3	...	...
St. Tammany	440.3	...	60.2	25.1	80.1	274.9	...
Tangipahoa	374.3	...	34.5	43.0	91.4	197.7	7.7
Washington	232.4	5.2	23.2	19.2	64.1	120.7	...
All parishes	2,100.0	5.2	176.7	254.9	421.5	1,212.6	29.1

Table 19. *Growing-stock volume of softwoods on commercial forest land by stand-size class, 1974*

Parish	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
			Million cubic feet		
East Baton Rouge	13.5	7.0	4.5	2.0	...
East Feliciana	138.2	119.5	12.0	6.7	...
Livingston	210.0	175.2	20.1	14.7	...
St. Helena	173.9	135.7	20.2	18.0	...
St. Tammany	268.0	206.8	47.8	13.0	0.4
Tangipahoa	186.0	130.2	50.5	5.3	...
Washington	195.2	183.0	...	12.2	...
All parishes	1,184.8	957.4	155.1	71.9	.4

Table 20. *Growing-stock volume of hardwoods on commercial forest land by stand-size class, 1974*

Parish	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
			Million cubic feet		
East Baton Rouge	73.6	54.2	13.0	6.4	...
East Feliciana	79.6	67.8	5.8	6.0	...
Livingston	189.4	142.6	36.9	9.9	...
St. Helena	41.7	34.8	4.4	2.5	...
St. Tammany	144.6	99.4	43.6	1.6	...
Tangipahoa	127.7	100.9	24.4	2.4	...
Washington	75.7	64.1	1.9	9.7	...
All parishes	732.3	563.8	130.0	38.5	...

Table 21. *Sawtimber volume of softwoods on commercial forest land by stand-size class, 1974*

Parish	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
			Million board feet		
East Baton Rouge	59.3	29.4	20.6	9.3	...
East Feliciana	601.0	554.2	11.8	35.0	...
Livingston	934.7	813.6	52.8	68.3	...
St. Helena	697.8	588.3	39.8	69.7	...
St. Tammany	1,142.4	979.4	111.3	51.7	...
Tangipahoa	716.3	611.6	83.2	21.5	...
Washington	826.4	780.7	...	45.7	...
All parishes	4,977.9	4,357.2	319.5	301.2	...

Table 22. *Sawtimber volume of hardwoods on commercial forest land by stand-size class, 1974*

Parish	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
			Million board feet		
East Baton Rouge	232.0	199.8	20.3	11.9	...
East Feliciana	264.6	233.5	11.6	19.5	...
Livingston	451.3	404.0	22.8	24.5	...
St. Helena	105.1	96.4	7.2	1.5	...
St. Tammany	440.3	357.1	83.2	...	...
Tangipahoa	374.3	335.7	34.5	4.1	...
Washington	232.4	214.3	2.2	15.9	...
All parishes	2,100.0	1,840.8	181.8	77.4	...

Table 23. *Growing-stock volume of softwoods on commercial forest land by class of timber and tree section, 1974*

Parish	All classes	Poletimber	Sawtimber		
			Total	Sawlog	Upper stem
		Million cubic feet			
East Baton Rouge	13.5	1.5	12.0	10.6	1.4
East Feliciana	138.2	26.0	112.2	98.5	13.7
Livingston	210.0	30.5	179.5	155.8	23.7
St. Helena	173.9	31.8	142.1	116.4	25.7
St. Tammany	268.0	60.9	207.1	187.3	19.8
Tangipahoa	186.0	48.4	137.6	122.8	14.8
Washington	195.2	34.4	160.8	140.8	20.0
All species	1,184.8	233.5	951.3	832.2	119.1

Table 24. *Growing-stock volume of hardwoods on commercial forest land by class of timber and tree section, 1974*

Parish	All classes	Poletimber	Sawtimber		
			Total	Sawlog	Upper stem
		Million cubic feet			
East Baton Rouge	73.6	25.3	48.3	39.9	8.4
East Feliciana	79.6	23.4	56.2	43.8	12.4
Livingston	189.4	78.7	110.7	82.8	27.9
St. Helena	41.7	17.4	24.3	18.2	6.1
St. Tammany	144.6	54.0	90.6	75.5	15.1
Tangipahoa	127.7	50.4	77.3	64.2	13.1
Washington	75.7	26.5	49.2	39.1	10.1
All parishes	732.3	275.7	456.6	363.5	93.1

Table 25. *Volume of softwoods on commercial forest land by class of timber, 1974*

Parish	All live	Growing stock	Rough	Rotten
	- - - -*Million cubic feet* - - - -			
East Baton Rouge	13.9	13.5	...	0.4
East Feliciana	140.9	138.2	1.1	1.6
Livingston	212.8	210.0	2.3	.5
St. Helena	174.6	173.9	.7	...
St. Tammany	271.1	268.0	2.7	.4
Tangipahoa	190.2	186.0	3.8	.4
Washington	198.3	195.2	1.9	1.2
All parishes	1,201.8	1,184.8	12.5	4.5

Table 26. *Volume of hardwoods on commercial forest land by class of timber, 1974*

Parish	All live	Growing stock	Rough	Rotten
	- - - -*Million cubic feet* - - - -			
East Baton Rouge	96.3	73.6	16.7	6.0
East Feliciana	106.8	79.6	21.6	5.6
Livingston	260.0	189.4	50.1	20.5
St. Helena	59.6	41.7	14.0	3.9
St. Tammany	193.1	144.6	39.7	8.8
Tangipahoa	170.2	127.7	31.3	11.2
Washington	113.4	75.7	30.9	6.8
All parishes	999.4	732.3	204.3	62.8

Table 27. *Growing-stock volume on commercial forest land by species and diameter class, 1974*[1]

Species	All classes	Diameter class (inches at breast height) 5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 and larger
	Million cubic feet										
Softwood:											
Longleaf pine	85.0	3.0	5.8	13.3	25.9	15.9	14.5	4.5	2.1	...	...
Slash pine	153.2	26.3	33.9	31.6	32.1	13.2	9.1	2.8	1.8	2.4	...
Shortleaf pine	79.2	6.2	11.3	21.8	17.5	11.4	7.8	1.8	1.4	...	...
Loblolly pine	703.5	42.9	81.1	102.4	105.7	98.5	76.1	75.8	58.6	59.9	2.5
Spruce pine	91.6	4.2	7.0	11.1	11.5	19.0	13.4	10.0	4.0	9.0	2.4
Cypress	72.3	8.3	3.5	7.1	6.5	9.4	11.7	6.1	9.3	7.6	2.8
Total	1,184.8	90.9	142.6	187.3	199.2	167.4	132.6	101.0	77.2	78.9	7.7
Hardwood:											
Select white oaks[2]	28.4	.7	3.5	1.6	4.9	3.8	2.8	3.3	1.7	5.4	.7
Select red oaks[3]	15.4	1.0	1.7	1.6	1.9	1.7	2.3	1.4	.6	3.2	...
Other white oaks	18.1	2.0	3.3	2.8	1.5	2.7	1.6	1.8	.5	1.9	...
Other red oaks	166.8	8.3	15.2	16.7	17.6	24.2	24.1	17.9	14.9	21.4	6.5
Hickory	17.4	1.1	1.6	3.1	3.1	4.6	1.2	1.4	...	1.3	...
Soft maple	16.2	3.6	3.7	2.6	.5	3.5	.9	.5	...	.9	...
Beech	16.4	...	.5	1.4	.9	1.5	1.3	3.1	3.1	4.3	.3
Sweetgum	125.0	12.6	15.2	17.9	26.7	18.9	14.6	8.7	5.4	5.0	...
Blackgum	113.9	18.8	21.6	15.4	14.2	10.3	10.5	10.3	4.3	7.8	.7
Other gums	121.2	9.5	19.4	29.9	12.5	12.5	13.9	8.7	7.1	7.3	.4
White ash	4.5	.6	.5	.9	1.1	1.4	...	...	...	...	...
Other ashes	12.9	1.7	2.1	.6	.4	1.8	1.3	2.9	1.1	1.0	...
Yellow-poplar	21.4	1.7	.8	3.0	2.0	4.1	3.5	2.5	1.4	2.4	...
Magnolia	11.8	...	.2	2.6	3.1	.8	1.5	2.0	.5	1.1	...
Sweetbay	15.8	3.6	1.4	3.2	2.8	1.4	1.6	1.4	.4	...	...
Willow	1.9	.7	1.0	...	...	...	.2	...	...	...	...
American elm	5.8	...	.9	1.7	.4	.8	.8	...	.7	.5	...
Other elms	5.2	.5	1.9	1.1	1.1	.6	...	...	...	...	...
Dogwood	1.2	.8	.2	.2	...	...	...	...	...	...	...
Holly	1.5	.4	.3	.8	...	...	...	...	...	...	...
Other commercial	11.5	1.3	3.2	1.5	.3	1.7	.9	1.0	...	1.0	.6
Total	732.3	68.9	98.2	108.6	95.0	96.3	83.0	66.9	41.7	64.5	9.2
All species	1,917.1	159.8	240.8	295.9	294.2	263.7	215.6	167.9	118.9	143.4	16.9

[1] Detailed parish statistics by species and diameter class available upon request.
[2] Includes white, swamp chestnut, chinkapin, and bur oaks.
[3] Includes northern red, Shumard, and cherrybark oaks.

Table 28. *Sawtimber volume on commercial forest land by species and diameter class, 1974*[1]

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 and larger
	Million board feet								
Softwood:									
Longleaf pine	392.6	57.0	130.8	85.7	81.2	25.4	12.5	...	...
Slash pine	479.0	147.2	167.6	72.6	50.6	16.4	9.9	14.7	...
Shortleaf pine	304.8	94.9	89.1	62.1	41.4	9.5	7.8	...	...
Loblolly pine	3,106.1	424.0	522.4	541.2	424.8	455.8	354.4	366.4	17.1
Spruce pine	413.9	40.3	53.4	96.8	74.2	57.0	21.9	53.5	16.8
Cypress	281.5	22.6	28.1	43.5	55.8	32.5	40.5	42.1	16.4
Total	4,977.9	786.0	991.4	901.9	728.0	596.6	447.0	476.7	50.3
Hardwood:									
Select white oaks[2]	110.4	...	20.5	16.9	13.5	16.7	9.4	29.5	3.9
Select red oaks[3]	52.4	...	6.8	7.4	11.7	5.8	2.7	18.0	...
Other white oaks	49.3	...	5.7	12.8	8.5	10.7	2.0	9.6	...
Other red oaks	596.1	...	64.5	106.8	115.0	91.0	79.3	108.9	30.6
Hickory	54.7	...	14.2	22.1	6.3	5.4	...	6.7	...
Soft maple	27.5	...	1.9	15.7	3.8	2.5	...	3.6	...
Beech	71.9	...	3.8	7.9	6.3	15.1	14.7	22.0	2.1
Sweetgum	354.6	...	96.6	83.9	69.4	44.6	31.1	29.0	...
Blackgum	249.2	...	50.5	44.3	44.4	48.8	18.8	38.8	3.6
Other gums	279.4	...	43.0	53.0	61.4	46.2	34.3	38.9	2.6
White ash	10.7	...	3.3	7.4	...	...	...	...	...
Other ashes	36.8	...	.9	9.0	6.0	10.8	5.2	4.9	...
Yellow-poplar	78.2	...	8.7	18.3	18.8	14.8	5.4	12.2	...
Magnolia	42.9	...	12.0	3.3	8.5	11.6	3.1	4.4	...
Sweetbay	35.0	...	10.4	7.2	9.0	6.9	1.5	...	...
Willow	1.1	...	...	...	1.1	...	...	...	...
American elm	15.0	...	1.5	3.1	3.3	...	4.9	2.2	...
Other elms	7.3	...	4.6	2.7	...	...	...	...	...
Other commercial	27.5	...	1.3	8.0	4.3	4.9	...	4.4	4.6
Total	2,100.0	...	350.2	429.8	391.3	335.8	212.4	333.1	47.4
All species	7,077.9	786.0	1,341.6	1,331.7	1,119.3	932.4	659.4	809.8	97.7

[1] Detailed county statistics by species and diameter class available upon request.
[2] Includes white, swamp chestnut, chinkapin, and bur oaks.
[3] Includes northern red, Shumard, and cherrybark oaks.

Table 29. *Growing-stock volume in the saw-log portion of sawtimber trees on commercial forest land by species and diameter class, 1974*

Species	All classes	Diameter class (inches at breast height) 9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 and larger
	Million cubic feet								
Softwood:									
Longleaf pine	67.2	10.8	22.5	14.8	13.2	4.0	1.9	...	...
Slash pine	81.0	26.5	28.4	12.1	7.9	2.4	1.5	2.2	...
Shortleaf pine	52.7	17.8	15.5	9.9	6.7	1.6	1.2	...	...
Loblolly pine	511.0	80.8	91.8	89.5	68.5	69.6	53.8	54.5	2.5
Spruce pine	68.2	7.9	9.7	16.2	11.5	8.6	3.7	8.2	2.4
Cypress	52.1	5.0	5.6	8.2	10.4	5.7	7.1	7.3	2.8
Total	832.2	148.8	173.5	150.7	118.2	91.9	69.2	72.2	7.7
Hardwood:									
Select white oaks[1]	18.8	...	3.7	3.2	2.1	2.8	1.6	4.8	.6
Select red oaks[2]	8.8	...	1.3	1.2	2.1	1.0	.5	2.7	...
Other white oaks	8.2	...	1.0	2.4	1.4	1.7	.3	1.4	...
Other red oaks	99.4	...	12.2	18.7	19.4	14.9	12.9	16.6	4.7
Hickory	8.9	...	2.3	3.7	1.0	.9	...	1.0	...
Soft maple	4.5	...	.3	2.6	.7	.4	...	.5	...
Beech	11.1	...	.6	1.3	1.1	2.3	2.2	3.3	.3
Sweetgum	61.6	...	17.8	15.0	12.0	7.4	4.9	4.5	...
Blackgum	46.9	...	9.8	8.2	8.2	9.1	3.7	7.2	.7
Other gums	52.8	...	8.6	9.9	12.1	8.2	6.6	7.0	.4
White ash	2.0	...	.6	1.4	...	...	...	...	...
Other ashes	6.6	...	.2	1.6	1.0	1.9	.9	1.0	...
Yellow-poplar	12.9	...	1.6	3.0	3.2	2.3	.9	1.9	...
Magnolia	7.0	...	2.1	.6	1.4	1.7	.5	.7	...
Sweetbay	6.2	...	2.0	1.2	1.5	1.2	.3	...	...
Willow	.2	...	...	...	.2	...	...	...	...
American elm	2.3	...	.3	.5	.5	...	.7	.3	...
Other elms	1.2	...	.8	.4	...	...	...	...	...
Other commercial	4.1	...	.2	1.3	.7	.7	...	.6	.6
Total	363.5	...	65.4	76.2	68.6	56.5	36.0	53.5	7.3
All species	1,195.7	148.8	238.9	226.9	186.8	148.4	105.2	125.7	15.0

1 Includes white, swamp chestnut, chinkapin, and bur oaks.
2 Includes northern red, Shumard, and cherrybark oaks.

Table 30. *Growing-stock volume on commercial forest land by species, class of timber and tree section, 1974*

Species	All classes	Poletimber	Sawtimber		
			Total	Sawlog	Upper stem
	Million cubic feet				
Softwood:					
Longleaf pine	85.0	8.8	76.2	67.2	9.0
Slash pine	153.2	60.2	93.0	81.0	12.0
Shortleaf pine	79.2	17.5	61.7	52.7	9.0
Loblolly pine	703.5	124.0	579.5	511.0	68.5
Spruce pine	91.6	11.2	80.4	68.2	12.2
Cypress	72.3	11.8	60.5	52.1	8.4
Total	1,184.8	233.5	951.3	832.2	119.1
Hardwood:					
Select white oaks[1]	28.4	5.8	22.6	18.8	3.8
Select red oaks[2]	15.4	4.3	11.1	8.8	2.3
Other white oaks	18.1	8.1	10.0	8.2	1.8
Other red oaks	166.8	40.2	126.6	99.4	27.2
Hickory	17.4	5.8	11.6	8.9	2.7
Soft maple	16.2	9.9	6.3	4.5	1.8
Beech	16.4	1.9	14.5	11.1	3.4
Sweetgum	125.0	45.7	79.3	61.6	17.7
Blackgum	113.9	55.8	58.1	46.9	11.2
Other gums	121.2	58.8	62.4	52.8	9.6
White ash	4.5	2.0	2.5	2.0	.5
Other ashes	12.9	4.4	8.5	6.6	1.9
Yellow-poplar	21.4	5.5	15.9	12.9	3.0
Magnolia	11.8	2.8	9.0	7.0	2.0
Sweetbay	15.8	8.2	7.6	6.2	1.4
Willow	1.9	1.7	.2	.2	...
American elm	5.8	2.6	3.2	2.3	.9
Other elms	5.2	3.5	1.7	1.2	.5
Dogwood	1.2	1.2	...	...	...
Holly	1.5	1.5	...	...	...
Other commercial	11.5	6.0	5.5	4.1	1.4
Total	732.3	275.7	456.6	363.5	93.1
All species	1,917.1	509.2	1,407.9	1,195.7	212.2

[1] Includes white, swamp chestnut, chinkapin, and bur oaks.
[2] Includes northern red, Shumard, and cherrybark oaks.

Table 31. *Volume of timber on commercial forest land by species and class of timber, 1974*

Species	All live	Growing-stock	Rough	Rotten
	Million cubic feet			
Softwood:				
Longleaf pine	85.7	85.0	0.7	...
Slash pine	154.1	153.2	.5	.4
Shortleaf pine	79.4	79.2	.2	...
Loblolly pine	714.8	703.5	8.3	3.0
Spruce pine	91.8	91.6	.2	...
Redcedar	.3	...	.1	.2
Cypress	75.7	72.3	2.5	.9
Total	1,201.8	1,184.8	12.5	4.5
Hardwood:				
Select white oaks[1]	36.9	28.4	5.5	3.0
Select red oaks[2]	17.2	15.4	.7	1.1
Other white oaks	28.5	18.1	9.6	.8
Other red oaks	220.0	166.8	42.1	11.1
Hickory	21.8	17.4	4.3	.1
Soft maple	27.8	16.2	8.6	3.0
Beech	30.9	16.4	5.7	8.8
Sweetgum	154.8	125.0	22.0	7.8
Blackgum	143.7	113.9	20.2	9.6
Other gums	144.8	121.2	14.7	8.9
White ash	4.5	4.5	...	...
Other ashes	17.8	12.9	4.7	.2
Yellow-poplar	24.1	21.4	2.0	.7
Magnolia	19.8	11.8	5.8	2.2
Sweetbay	24.4	15.8	5.1	3.5
Willow	3.6	1.9	1.4	.3
American elm	7.7	5.8	1.9	...
Other elms	7.1	5.2	1.6	.3
Dogwood	2.4	1.2	1.0	.2
Holly	4.5	1.5	1.8	1.2
Other commercial	16.6	11.5	5.1	...
Noncommercial	40.5	...	40.5	...
Total	999.4	732.3	204.3	62.8
All species	2,201.2	1,917.1	216.8	67.3

[1] Includes white, swamp chestnut, chinkapin, and bur oaks.
[2] Includes northern red, Shumard, and cherrybark oaks.

Table 32. *Average volume per acre of growing stock and sawtimber on commercial forest land by ownership and species group, 1974*

Ownership class	Growing stock			Sawtimber		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood
	- - - - *Cubic feet* - - - -			- - - - *Board feet* - - - -		
National forest	...	...	...	...	...	...
Other public	1,825	897	928	7,605	5,031	2,574
Forest industry	880	665	215	3,269	2,707	562
Farmer	957	544	413	3,482	2,236	1,246
Misc. private	1,173	695	478	4,299	2,922	1,377
All ownerships	1,073	663	410	3,963	2,787	1,176

Table 33. *Average volume per acre of growing stock and sawtimber on commercial forest land by forest type and species group, 1974*

Forest type	Growing stock			Sawtimber		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood
	- - - - - *Cubic feet* - - - - -			- - - - - *Board feet* - - - - -		
Longleaf-slash pine	1,039	1,018	21	3,657	3,632	25
Loblolly-shortleaf pine	1,344	1,220	124	5,434	5,105	329
Oak-pine	1,096	687	409	4,401	3,324	1,077
Oak-hickory	515	124	391	1,775	573	1,202
Oak-gum-cypress	1,221	245	976	3,924	1,089	2,835
Elm-ash-cottonwood	565	130	435	1,901	596	1,305
All types	1,073	663	410	3,963	2,787	1,176

Hedlund, Arnold, and Earles, J. M.

1974. Forest statistics for southeast Louisiana parishes. South. For. Exp. Stn., New Orleans, La. 22 p. (USDA For. Serv. Resour. Bull. SO-49)

Commercial forest area and timber inventory as of 1974.
Additional keywords: Area, volume, forest type, stand-size, ownership.