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Forest Statistics
For
Southwest Arkansas Counties

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Southern
Forest
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These tables were derived from data obtained during a 1978 inventory of 20 counties comprising the Southwest Unit of Arkansas (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, 10 BA 37.5 point samples were distributed on an area of about 1 acre.

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 1 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 = Sampling error
- X = variable of interest (area, volume)
- G = group of counties to be combined
- T = total for the unit

Sampling errors for estimates of the principal timber species are shown in table 2.

Because of differences in standards of tree measurements, direct comparisons between these data and those from 1969 inventory are

not valid. In table 3, changes between the two surveys are summarized in terms of current measurement standards.

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Commercial forest land.—Forest land producing or capable of producing crops of industrial wood and not withdrawn from timber utilization.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

Table 1.—Sampling errors¹ for forest land and timber volume, 1978

County	Commercial forest land	Growing stock	Saw- timber
	Percent		
Ashley	7	7	10
Bradley	1	6	9
Calhoun	2	10	13
Clark	2	7	10
Cleveland	1	6	9
Columbia	1	8	13
Dallas	1	9	12
Drew	2	6	8
Grant	1	10	13
Hempstead	2	10	16
Hot Spring	2	13	19
Howard	2	14	18
Lafayette	3	11	15
Little River	3	14	19
Miller	3	12	20
Nevada	1	7	9
Ouachita	2	8	11
Pike	2	11	14
Sevier	3	11	17
Union	1	6	8
All counties	0.4	1.9	2.7

¹By random-sampling formula.

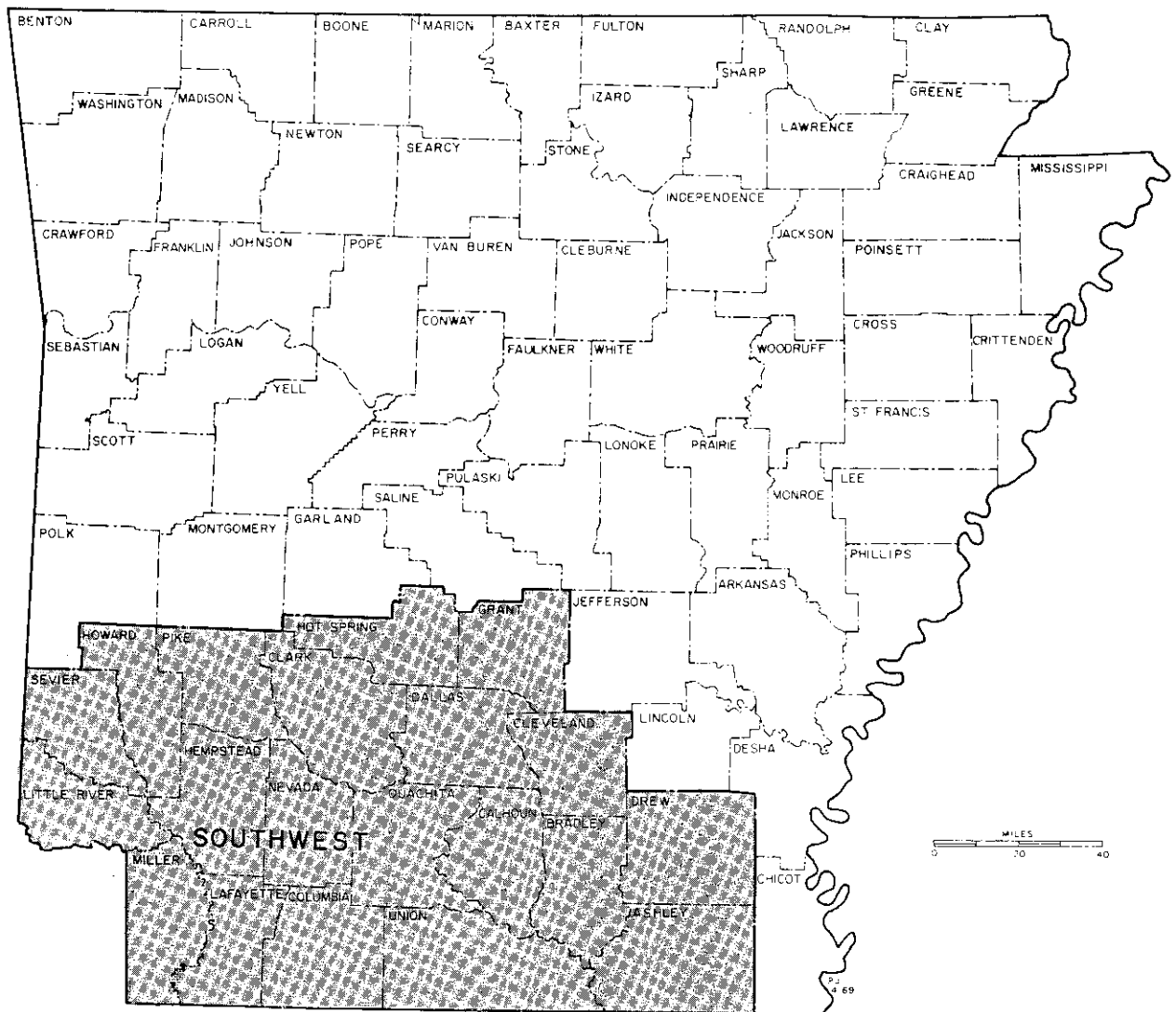


Figure 1.—The Southwest forest survey region of Arkansas.

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 of roughness or poor form. (Includes all live trees of noncommercial species.)

Table 2.—Sampling errors for timber volume by species, 1978

Species	Growing stock	Sawtimber
	Percent	
Softwood:		
Shortleaf pine	6	7
Loblolly pine	4	4
Redcedar	30	46
Cypress	34	36
Total	3.1	3.7
Hardwood:		
Select white oaks	7	9
Select red oaks	9	11
Other white oaks	7	9
Other red oaks	5	6
Water hickory	26	32
Other hickories	7	9
Persimmon	32	(1)
Maple	14	25
Beech	22	25
Sweetgum	6	9
Other gums	10	15
White ash	28	28
Other ashes	27	39
Sycamore	29	31
Cottonwood	44	49
Sweetbay	40	(1)
Black cherry	28	46
American elm	20	26
Other elms	11	24
River birch	45	50
Hackberry	27	40
Locusts	46	(1)
Sassafras	35	(1)
Dogwood	24	--
Holly	23	40
Other commercial	28	45
Total	3.2	4.7
All species	1.9	2.7

¹Exceeds 50 percent.

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.

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 3.—Change¹ in forest resource since 1969

Item	Change
	Percent
Commercial forest land	-4
Growing-stock volume:	
Softwood	+16
Hardwood	- 1
All species	+ 8
Sawtimber volume:	
Softwood	+21
Hardwood	(2)
All species	+13

¹Based on current measurement standards.²Negligible.

Table 4.--Total area, commercial forest land, and proportion of total area, 1978

County	Total area	Commercial forest	
		Area	Proportion
- Thousand acres - - Percent -			
Ashley	597.8	369.2	62
Bradley	417.3	366.0	88
Calhoun	404.5	336.3	83
Clark	561.9	400.2	71
Cleveland	384.6	319.0	83
Columbia	491.5	390.0	79
Dallas	430.1	360.4	84
Drew	535.0	364.0	68
Grant	403.8	333.2	83
Hempstead	474.9	268.8	57
Hot Spring	398.7	259.6	65
Howard	384.0	235.2	61
Lafayette	352.6	198.4	56
Little River	359.0	188.8	53
Miller	410.9	168.0	41
Nevada	394.2	306.8	78
Ouachita	473.0	384.4	81
Pike	393.6	296.4	75
Sevier	374.4	249.6	67
Union	674.0	594.0	88
All counties	8,915.8	6,388.3	72

¹United States Bureau of the Census, Land and Water Area of the United States.

Table 5.--Commercial forest land by ownership class, 1978

County	All ownerships	National forest	Other public	Forest industry	Farmer	Misc. private
- - - - - Thousand acres - - - - -						
Ashley	369.2	...	22.3	239.2	20.7	87.0
Bradley	366.0	...	17.2	204.0	47.8	97.0
Calhoun	336.3	...	...	247.8	17.6	70.9
Clark	400.2	...	.3	145.0	40.4	214.5
Cleveland	319.0	...	...	162.4	5.8	150.8
Columbia	390.0	...	.3	84.5	51.8	253.4
Dallas	360.4	...	(¹)	254.4	47.5	58.5
Drew	364.0	...	10.1	192.4	51.8	109.7
Grant	333.2	...	...	245.0	...	88.2
Hempstead	268.8	...	8.1	72.8	27.9	160.0
Hot Spring	259.6	.4	(¹)	129.8	5.9	123.5
Howard	235.2	1.2	...	158.4	28.7	46.9
Lafayette	198.4	...	.4	62.0	61.7	74.3
Little River	188.8	...	(¹)	94.4	52.9	41.5
Miller	168.0	...	12.4	18.0	89.6	48.0
Nevada	306.8	...	7.3	112.1	47.0	140.4
Ouachita	384.4	...	19.2	124.0	49.4	191.8
Pike	296.4	2.2	...	222.3	39.7	32.2
Sevier	249.6	...	...	124.8	25.9	98.9
Union	594.0	...	25.4	214.5	120.5	233.6
All counties	6,388.3	3.8	123.0	3,107.8	832.6	2,321.1

¹Negligible.

Table 6.-- Commercial forest land by forest type, 1978

County	All types	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood
----- Thousand acres -----						
Ashley	369.2	213.2	62.4	41.6	52.0	...
Bradley	366.0	174.0	42.0	72.0	78.0	...
Calhoun	336.3	141.6	64.9	35.4	94.4	...
Clark	400.2	179.8	98.6	52.2	69.6	...
Cleveland	319.0	127.6	58.0	58.0	75.4	...
Columbia	390.0	182.0	65.0	58.5	84.5	...
Dallas	360.4	143.1	84.8	63.6	68.9	...
Drew	364.0	130.0	93.6	67.6	72.8	...
Grant	333.2	98.0	78.4	68.6	88.2	...
Hempstead	268.8	106.4	44.8	72.8	44.8	...
Hot Spring	259.6	47.2	76.7	112.1	23.6	...
Howard	235.2	115.2	67.2	38.4	14.4	...
Lafayette	198.4	105.4	43.4	24.8	24.8	...
Little River	188.8	70.8	47.2	35.4	29.5	5.9
Miller	168.0	48.0	36.0	24.0	48.0	12.0
Nevada	306.8	123.9	59.0	70.8	53.1	...
Ouachita	384.4	117.8	86.8	80.6	99.2	...
Pike	296.4	142.5	91.2	62.7	...	...
Sevier	249.6	78.0	52.0	57.2	52.0	10.4
Union	594.0	236.5	165.0	66.0	126.5	...
All counties	6,388.3	2,581.0	1,417.0	1,162.3	1,199.7	28.3

Table 7.-- Commercial forest land by stand-size class, 1978

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
----- Thousand acres -----					
Ashley	369.2	182.0	88.4	98.8	...
Bradley	366.0	240.0	78.0	48.0	...
Calhoun	336.3	153.4	82.6	100.3	...
Clark	400.2	214.6	110.2	69.6	5.8
Cleveland	319.0	191.4	87.0	40.6	...
Columbia	390.0	169.0	130.0	91.0	...
Dallas	360.4	159.0	90.1	106.0	5.3
Drew	364.0	223.6	78.0	57.2	5.2
Grant	333.2	142.1	93.1	98.0	...
Hempstead	268.8	134.4	89.6	44.8	...
Hot Spring	259.6	100.3	82.6	70.8	5.9
Howard	235.2	96.0	48.0	91.2	...
Lafayette	198.4	93.0	55.8	49.6	...
Little River	188.8	82.6	64.9	41.3	...
Miller	168.0	66.0	60.0	42.0	...
Nevada	306.8	200.6	76.7	29.5	...
Ouachita	384.4	229.4	93.0	62.0	...
Pike	296.4	131.1	57.0	102.6	5.7
Sevier	249.6	130.0	78.0	41.6	...
Union	594.0	357.5	132.0	99.0	5.5
All counties	6,388.3	3,296.0	1,675.0	1,383.9	33.4

Table 8.--Commercial forest land by site class, 1978

County	All classes	165 ft ³ or more	120-165 ft ³	85-120 ft ³	50-85 ft ³	Less than 50 ft ³
-----Thousand acres-----						
Ashley	369.2	...	41.6	228.8	93.6	5.2
Bradley	366.0	...	18.0	252.0	96.0	...
Calhoun	336.3	...	64.9	171.1	100.3	...
Clark	400.2	17.4	63.8	191.4	127.6	...
Cleveland	319.0	5.8	40.6	255.2	17.4	...
Columbia	390.0	6.5	78.0	182.0	117.0	6.5
Dallas	360.4	...	63.6	180.2	116.6	...
Drew	364.0	10.4	57.2	270.4	26.0	...
Grant	333.2	19.6	58.8	122.5	117.6	14.7
Hempstead	268.8	5.6	50.4	117.6	95.2	...
Hot Spring	259.6	...	11.8	88.5	82.6	76.7
Howard	235.2	...	14.4	115.2	105.6	...
Lafayette	198.4	...	12.4	80.6	93.0	12.4
Little River	188.8	...	11.8	100.3	70.8	5.9
Miller	168.0	6.0	48.0	54.0	60.0	...
Nevada	306.8	17.7	94.4	141.6	47.2	5.9
Ouachita	384.4	...	130.2	148.8	99.2	6.2
Pike	296.4	...	28.5	96.9	159.6	11.4
Sevier	249.6	5.2	36.4	114.4	93.6	...
Union	594.0	38.5	99.0	308.0	132.0	16.5
All counties	6,388.3	132.7	1,023.8	3,219.5	1,850.9	161.4

Table 9.--Commercial forest land by physiographic site class, 1978

County	All sites	Pine	Upland hardwood	Bottomland hardwood
-----Thousand acres-----				
Ashley	369.2	312.0	...	57.2
Bradley	366.0	288.0	...	78.0
Calhoun	336.3	236.0	...	100.3
Clark	400.2	330.6	...	69.6
Cleveland	319.0	243.6	...	75.4
Columbia	390.0	305.5	...	84.5
Dallas	360.4	286.2	...	74.2
Drew	364.0	275.6	5.2	83.2
Grant	333.2	245.0	...	88.2
Hempstead	268.8	218.4	5.6	44.8
Hot Spring	259.6	236.0	...	23.6
Howard	235.2	220.8	...	14.4
Lafayette	198.4	167.4	...	31.0
Little River	188.8	153.4	...	35.4
Miller	168.0	90.0	...	78.0
Nevada	306.8	224.2	...	82.6
Ouachita	384.4	266.6	...	117.8
Pike	296.4	296.4	...	...
Sevier	249.6	187.2	...	62.4
Union	594.0	451.0	...	143.0
All counties	6,388.3	5,033.9	10.8	1,343.6

Table 10.-- Cordage of growing stock on commercial forest land by species group, 1978

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
-----Thousand cords-----								
Ashley	6,047	4,204	4,177	27	1,843	1,149	404	290
Bradley	6,455	3,788	3,748	40	2,667	1,533	785	349
Calhoun	4,540	2,743	2,406	337	1,797	978	496	323
Clark	8,520	4,586	4,535	51	3,934	2,386	678	870
Cleveland	7,156	3,496	3,491	5	3,660	1,876	1,309	475
Columbia	6,705	3,971	3,951	20	2,734	1,543	895	296
Dallas	5,402	3,317	3,317	...	2,085	1,160	604	321
Drew	6,707	3,771	3,535	236	2,936	1,621	837	478
Grant	6,611	2,321	2,264	57	4,290	2,337	1,537	416
Hempstead	5,568	3,264	3,257	7	2,304	1,115	588	601
Hot Spring	3,622	1,941	1,941	...	1,681	1,084	387	210
Howard	4,478	2,981	2,966	15	1,497	672	464	361
Lafayette	3,171	2,080	2,072	8	1,091	669	199	223
Little River	3,115	1,937	1,937	...	1,178	794	243	141
Miller	2,043	976	897	79	1,067	575	240	252
Nevada	6,508	3,347	3,340	7	3,161	1,720	1,081	360
Ouachita	8,109	3,615	3,598	17	4,494	2,233	1,724	537
Pike	4,858	3,646	3,637	9	1,212	801	206	205
Sevier	4,744	2,499	2,466	33	2,245	1,069	545	631
Union	12,412	7,037	6,962	75	5,375	2,946	1,702	727
All counties	116,771	65,520	64,497	1,023	51,251	28,261	14,924	8,066

Table 11.-- Growing-stock volume on commercial forest land by species group, 1978

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
-----Million cubic feet-----								
Ashley	438.8	315.3	313.3	2.0	123.5	77.0	27.1	19.4
Bradley	462.8	284.1	281.1	3.0	178.7	102.7	52.6	23.4
Calhoun	326.1	205.7	180.4	25.3	120.4	65.5	33.2	21.7
Clark	607.5	343.9	340.1	3.8	263.6	159.9	45.4	58.3
Cleveland	507.4	262.2	261.8	.4	245.2	125.7	87.7	31.8
Columbia	481.0	297.8	296.3	1.5	183.2	103.4	60.0	19.8
Dallas	388.5	248.8	248.8	...	139.7	77.7	40.5	21.5
Drew	479.5	282.8	265.1	17.7	196.7	108.6	56.1	32.0
Grant	461.5	174.1	169.8	4.3	287.4	156.6	103.0	27.8
Hempstead	399.2	244.8	244.3	.5	154.4	74.7	39.4	40.3
Hot Spring	258.2	145.6	145.6	...	112.6	72.6	25.9	14.1
Howard	323.9	223.6	222.5	1.1	100.3	45.0	31.1	24.2
Lafayette	229.1	156.0	155.4	.6	73.1	44.8	13.3	15.0
Little River	224.2	145.3	145.3	...	78.9	53.2	16.3	9.4
Miller	144.7	73.2	67.3	5.9	71.5	38.5	16.1	16.9
Nevada	462.8	251.0	250.5	.5	211.8	115.3	72.4	24.1
Ouachita	572.2	271.1	269.8	1.3	301.1	149.6	115.5	36.0
Pike	354.7	273.5	272.8	.7	81.2	53.7	13.8	13.7
Sevier	337.8	187.4	184.9	2.5	150.4	71.6	36.5	42.3
Union	887.9	527.8	522.2	5.6	360.1	197.4	114.0	48.7
All counties	8,347.8	4,914.0	4,837.3	76.7	3,433.8	1,893.5	999.9	540.4

Table 12.--Sawtimber volume on commercial forest land by species group, 1978

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
----- Million board feet -----								
Ashley	1,918.2	1,548.5	1,540.2	8.3	369.7	262.0	58.8	48.9
Bradley	1,854.1	1,296.7	1,279.4	17.3	557.4	355.3	140.7	61.4
Calhoun	1,182.8	827.6	695.3	132.3	355.2	193.3	91.6	70.3
Clark	2,179.9	1,517.5	1,498.1	19.4	662.4	426.6	98.7	137.1
Cleveland	2,014.1	1,157.3	1,157.3	...	856.8	479.2	274.3	103.3
Columbia	1,674.5	1,187.3	1,183.7	3.6	487.2	288.3	151.0	47.9
Dallas	1,479.8	1,138.9	1,138.9	...	340.9	195.7	87.2	58.0
Drew	1,939.2	1,312.8	1,237.0	75.8	626.4	384.9	152.1	89.4
Grant	1,791.1	751.8	730.0	21.8	1,039.3	615.2	340.6	83.5
Hempstead	1,322.6	946.8	944.6	2.2	375.8	200.4	97.2	78.2
Hot Spring	859.3	652.9	652.9	...	206.4	166.7	22.6	17.1
Howard	1,381.9	1,148.4	1,147.2	1.2	233.5	134.3	58.4	40.8
Lafayette	780.0	597.3	594.3	3.0	182.7	132.0	28.2	22.5
Little River	755.9	626.1	626.1	...	129.8	103.1	12.9	13.8
Miller	422.7	279.6	257.9	21.7	143.1	70.9	35.8	36.4
Nevada	1,596.8	1,054.5	1,052.4	2.1	542.3	339.7	163.2	39.4
Ouachita	2,104.8	1,241.5	1,234.7	6.8	863.3	395.1	374.2	94.0
Pike	1,389.8	1,217.1	1,215.5	1.6	172.7	127.5	33.7	11.5
Sevier	1,327.8	931.0	925.9	5.1	396.8	191.5	93.4	111.9
Union	3,561.8	2,446.2	2,421.9	24.3	1,115.6	681.5	300.4	133.7
All counties	31,537.1	21,879.8	21,533.3	346.5	9,657.3	5,743.2	2,615.0	1,299.1

Table 13.--Sawtimber volume on commercial forest land by species group and diameter class, 1978

County	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 - - - - -							
Ashley	1,918.2	1,548.5	598.1	950.4	369.7	102.4	267.3
Bradley	1,854.1	1,296.7	560.6	736.1	557.4	236.5	320.9
Calhoun	1,182.8	827.6	407.0	420.6	355.2	143.4	211.8
Clark	2,179.9	1,517.5	866.4	651.1	662.4	309.5	352.9
Cleveland	2,014.1	1,157.3	586.2	571.1	856.8	220.5	636.3
Columbia	1,674.5	1,187.3	615.9	571.4	487.2	199.6	287.6
Dallas	1,479.8	1,138.9	543.0	595.9	340.9	182.4	158.5
Drew	1,939.2	1,312.8	578.7	734.1	626.4	280.5	345.9
Grant	1,791.1	751.8	422.0	329.8	1,039.3	407.7	631.6
Hempstead	1,322.6	946.8	595.1	351.7	375.8	185.9	189.9
Hot Spring	859.3	652.9	511.4	141.5	206.4	148.7	57.7
Howard	1,381.9	1,148.4	603.2	545.2	233.5	128.7	104.8
Lafayette	780.0	597.3	336.0	261.3	182.7	76.2	106.5
Little River	755.9	626.1	308.6	317.5	129.8	76.3	53.5
Miller	422.7	279.6	176.5	103.1	143.1	69.9	73.2
Nevada	1,596.8	1,054.5	666.9	387.6	542.3	244.7	297.6
Ouachita	2,104.8	1,241.5	576.3	665.2	863.3	377.9	485.4
Pike	1,389.8	1,217.1	799.5	417.6	172.7	117.8	54.9
Sevier	1,327.8	931.0	450.3	480.7	396.8	169.0	227.8
Union	3,561.8	2,446.2	1,385.9	1,060.3	1,115.6	452.4	663.2
All counties	31,537.1	21,879.8	11,587.6	10,292.2	9,657.3	4,130.0	5,527.3

Table 14. --Growing-stock volume of softwoods on commercial forest land
by forest type, 1978

County	All species	Loblolly- shortleaf pine	Oak- pine	Oak- hickory	Oak- gum- cypress	Elm- ash- cottonwood
----- Million cubic feet -----						
Ashley	315.3	261.1	41.0	7.6	5.6	...
Bradley	284.1	215.7	31.7	18.9	17.8	...
Calhoun	205.7	126.5	36.7	8.5	34.0	...
Clark	343.9	236.3	86.1	15.9	5.6	...
Cleveland	262.2	179.8	58.8	20.2	3.4	...
Columbia	297.8	237.6	42.8	10.9	6.5	...
Dallas	248.8	166.0	56.6	15.3	10.9	...
Drew	282.8	177.5	63.1	19.3	22.9	...
Grant	174.1	108.4	43.4	13.8	8.5	...
Hempstead	244.8	200.3	32.2	11.8	.5	...
Hot Spring	145.6	76.6	49.8	15.3	3.9	...
Howard	223.6	167.1	41.1	15.1	.3	...
Lafayette	156.0	122.0	30.8	2.6	.6	...
Little River	145.3	93.9	46.8	3.3	1.3	...
Miller	73.2	42.6	18.8	4.1	4.3	3.4
Nevada	251.0	171.5	50.7	17.3	11.5	...
Quachita	271.1	150.3	86.2	17.8	16.8	...
Pike	273.5	183.6	74.7	15.2	...	...
Sevier	187.4	146.6	30.3	6.6	3.9	...
Union	527.8	380.1	114.4	15.7	17.6	...
All counties	4,914.0	3,443.5	1,036.0	255.2	175.9	3.4

Table 15.--Growing-stock volume of hardwoods on commercial forest land
by forest type, 1978

County	All species	Loblolly- shortleaf pine	Oak- pine	Oak- hickory	Oak- gum- cypress	Elm- ash- cottonwood
----- Million cubic feet -----						
Ashley	123.5	22.7	30.2	31.8	38.8	...
Bradley	178.7	8.8	23.0	50.7	96.2	...
Calhoun	120.4	12.4	19.1	21.9	67.0	...
Clark	263.6	36.5	57.7	63.7	105.7	...
Cleveland	245.2	25.9	32.1	69.0	118.2	...
Columbia	183.2	28.8	26.2	35.2	93.0	...
Dallas	139.7	21.9	29.4	31.6	56.8	...
Drew	196.7	15.5	41.5	73.2	66.5	...
Grant	287.4	23.0	26.5	65.8	172.1	...
Hempstead	154.4	23.4	14.0	69.1	47.9	...
Hot Spring	112.6	13.6	21.4	57.0	20.6	...
Howard	100.3	24.9	25.2	36.1	14.1	...
Lafayette	73.1	19.2	29.9	6.0	18.0	...
Little River	78.9	12.8	26.8	19.4	19.7	0.2
Miller	71.5	10.4	14.5	13.4	28.3	4.9
Nevada	211.8	22.5	49.9	60.0	79.4	...
Quachita	301.1	30.6	40.3	68.4	161.8	...
Pike	81.2	20.0	45.1	16.1	...	...
Sevier	150.4	18.0	20.4	45.8	54.3	11.9
Union	360.1	57.1	91.0	52.4	159.6	...
All counties	3,433.8	448.0	664.2	886.6	1,418.0	17.0

Table 16.-- *Sawtimber volume of softwoods on commercial forest land by forest type, 1978*

County	All species	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood
----- Million board feet -----						
Ashley	1,548.5	1,303.3	171.4	39.9	33.9	...
Bradley	1,296.7	928.7	149.7	104.8	113.5	...
Calhoun	827.6	418.6	188.3	44.1	176.6	...
Clark	1,517.5	1,027.2	377.1	85.3	27.9	...
Cleveland	1,157.3	742.4	306.6	91.4	16.9	...
Columbia	1,187.3	966.9	156.9	33.6	29.9	...
Dallas	1,138.9	735.7	259.0	82.9	61.3	...
Drew	1,312.8	779.5	312.6	110.1	110.6	...
Grant	751.8	476.2	190.9	37.5	47.2	...
Hempstead	946.8	778.4	107.7	58.5	2.2	...
Hot Spring	652.9	333.2	239.1	57.6	23.0	...
Howard	1,148.4	863.0	201.7	82.0	1.7	...
Lafayette	597.3	434.6	150.0	9.7	3.0	...
Little River	626.1	385.3	227.4	6.6	6.8	...
Miller	279.6	189.3	49.0	11.7	17.8	11.8
Nevada	1,054.5	697.3	195.3	91.2	70.7	...
Ouachita	1,241.5	617.6	448.1	74.8	101.0	...
Pike	1,217.1	797.6	344.6	74.9	...	...
Sevier	931.0	747.0	136.9	25.2	21.9	...
Union	2,446.2	1,707.0	561.7	86.0	91.5	...
All counties	21,879.8	14,928.8	4,774.0	1,207.8	957.4	11.8

Table 17.-- *Sawtimber volume of hardwoods on commercial forest land by forest type, 1978*

County	All species	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood
----- Million board feet -----						
Ashley	369.7	48.6	100.0	72.0	149.1	...
Bradley	557.4	19.9	59.0	126.9	351.6	...
Calhoun	355.2	19.1	57.4	59.5	219.2	...
Clark	662.4	54.4	99.0	166.0	343.0	...
Cleveland	856.8	42.6	96.8	210.7	506.7	...
Columbia	487.2	51.1	65.7	75.0	295.4	...
Dallas	340.9	40.7	51.2	73.0	176.0	...
Drew	626.4	20.0	106.9	258.3	241.2	...
Grant	1,039.3	46.7	57.6	201.4	733.6	...
Hempstead	375.8	54.5	33.6	170.9	116.8	...
Hot Spring	206.4	31.9	35.7	115.6	23.2	...
Howard	233.5	56.5	62.5	97.3	17.2	...
Lafayette	182.7	28.5	98.8	9.0	46.4	...
Little River	129.8	17.1	49.0	24.4	39.3	...
Miller	143.1	21.6	22.1	23.4	57.4	18.6
Nevada	542.3	51.2	79.1	129.7	282.3	...
Ouachita	863.3	47.0	67.0	135.6	613.7	...
Pike	172.7	31.3	112.6	28.8	...	...
Sevier	396.8	22.1	48.8	107.6	189.6	28.7
Union	1,115.6	141.7	213.4	176.0	584.5	...
All counties	9,657.3	846.5	1,516.2	2,261.1	4,986.2	47.3

Table 18.--Growing-stock volume of softwoods on commercial forest land
by stand-size class, 1978

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
- - - - - Million cubic feet - - - - -					
Ashley	315.3	237.5	50.8	27.0	...
Bradley	284.1	228.0	39.3	16.8	...
Calhoun	205.7	125.6	62.4	17.7	...
Clark	343.9	227.8	102.5	13.6	...
Cleveland	262.2	193.2	50.8	18.2	...
Columbia	297.8	192.9	75.9	29.0	...
Dallas	248.8	179.4	42.6	26.1	0.7
Drew	282.8	220.7	41.9	20.2	...
Grant	174.1	126.8	37.8	9.5	...
Hempstead	244.8	195.5	40.2	9.1	...
Hot Spring	145.6	103.8	35.4	6.4	...
Howard	223.6	191.4	22.5	9.7	...
Lafayette	156.0	105.6	42.8	7.6	...
Little River	145.3	109.4	32.2	3.7	...
Miller	73.2	54.6	14.9	3.7	...
Nevada	251.0	208.8	35.8	6.4	...
Ouachita	271.1	209.0	46.2	15.9	...
Pike	273.5	192.1	49.4	32.0	...
Sevier	187.4	157.7	18.7	11.0	...
Union	527.8	429.1	79.6	18.6	.5
All counties	4,914.0	3,688.9	921.7	302.2	1.2

Table 19.--Growing-stock volume of hardwoods on commercial forest land
by stand-size class, 1978

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
- - - - - Million cubic feet - - - - -					
Ashley	123.5	69.9	41.9	11.7	...
Bradley	178.7	140.6	33.1	5.0	...
Calhoun	120.4	88.5	25.3	6.6	...
Clark	263.6	196.3	62.8	4.2	0.3
Cleveland	245.2	177.9	59.4	7.9	...
Columbia	183.2	92.7	79.8	10.7	...
Dallas	139.7	82.4	45.5	11.5	.3
Drew	196.7	150.6	39.7	5.5	.9
Grant	287.4	201.7	76.3	9.4	...
Hempstead	154.4	80.9	68.9	4.6	...
Hot Spring	112.6	53.9	56.2	2.5	...
Howard	100.3	59.8	34.6	5.9	...
Lafayette	73.1	41.2	22.0	9.9	...
Little River	78.9	47.1	30.1	1.7	...
Miller	71.5	33.4	33.5	4.6	...
Nevada	211.8	140.2	61.0	10.6	...
Ouachita	301.1	219.6	66.3	15.2	...
Pike	81.2	54.6	19.5	7.1	...
Sevier	150.4	87.7	55.3	7.4	...
Union	360.1	274.9	69.2	15.5	.5
All counties	3,433.8	2,293.9	980.4	157.5	2.0

Table 20.--Sawtimber volume of softwoods on commercial forest land
by stand-size class, 1978

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
----- Million board feet -----					
Ashley	1,548.5	1,260.0	171.6	116.9	...
Bradley	1,296.7	1,119.1	107.3	70.3	...
Calhoun	827.6	615.4	155.0	57.2	...
Clark	1,517.5	1,137.1	344.2	36.2	...
Cleveland	1,157.3	928.4	150.0	78.9	...
Columbia	1,187.3	924.3	190.4	72.6	...
Dallas	1,138.9	869.9	138.8	125.9	4.3
Drew	1,312.8	1,077.9	129.8	105.1	...
Grant	751.8	637.4	84.5	29.9	...
Hempstead	946.8	829.7	96.6	20.5	...
Hot Spring	652.9	518.7	109.1	25.1	...
Howard	1,148.4	1,050.0	63.2	35.2	...
Lafayette	597.3	412.9	145.6	38.8	...
Little River	626.1	503.6	112.5	10.0	...
Miller	279.6	240.9	34.4	4.3	...
Nevada	1,054.5	946.2	83.8	24.5	...
Ouachita	1,241.5	1,042.4	151.3	47.8	...
Pike	1,217.1	934.4	148.9	133.8	...
Sevier	931.0	832.4	69.4	29.2	...
Union	2,446.2	2,170.4	195.9	77.3	2.6
All counties	21,879.8	18,051.1	2,682.3	1,139.5	6.9

Table 21.--Sawtimber volume of hardwoods on commercial forest land
by stand-size class, 1978

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
----- Million board feet -----					
Ashley	369.7	262.8	73.2	33.7	...
Bradley	557.4	491.2	49.3	16.9	...
Calhoun	355.2	313.1	38.4	3.7	...
Clark	662.4	578.3	82.8	1.3	...
Cleveland	856.8	724.7	103.2	28.9	...
Columbia	487.2	335.7	139.7	11.8	...
Dallas	340.9	239.9	83.6	17.4	...
Drew	626.4	539.8	76.1	5.0	5.5
Grant	1,039.3	837.4	186.9	15.0	...
Hempstead	375.8	263.3	109.4	3.1	...
Hot Spring	206.4	141.5	58.4	6.5	...
Howard	233.5	178.8	47.9	6.8	...
Lafayette	182.7	145.2	29.1	8.4	...
Little River	129.8	114.4	15.4	...	...
Miller	143.1	101.8	32.4	8.9	...
Nevada	542.3	429.7	90.6	22.0	...
Ouachita	863.3	746.4	94.3	22.6	...
Pike	172.7	149.6	19.2	3.9	...
Sevier	396.8	303.4	72.1	21.3	...
Union	1,115.6	950.5	119.0	46.1	...
All counties	9,657.3	7,847.5	1,521.0	283.3	5.5

Table 22.--Growing-stock volume on commercial forest land by physiographic site class and species group, 1978

County	All sites	Pine		Upland hardwood		Bottomland hardwood	
		Softwood	Hardwood	Softwood	Hardwood	Softwood	Hardwood
- - - - - Million cubic feet - - - - -							
Ashley	438.8	309.5	84.7	...	...	5.8	38.8
Bradley	462.8	266.3	82.5	...	...	17.8	96.2
Calhoun	326.1	170.4	53.4	...	...	35.3	67.0
Clark	607.5	338.3	157.9	...	...	5.6	105.7
Cleveland	507.4	258.8	127.0	...	...	3.4	118.2
Columbia	481.0	291.3	90.2	...	...	6.5	93.0
Dallas	388.5	226.7	81.6	...	...	22.1	58.1
Drew	479.5	255.0	125.6	...	...	27.8	71.1
Grant	461.5	165.6	115.3	...	...	8.5	172.1
Hempstead	399.2	244.3	101.2	...	5.3	0.5	47.9
Hot Spring	258.2	141.7	92.0	...	...	3.9	20.6
Howard	323.9	223.3	86.2	...	...	.3	14.1
Lafayette	229.1	151.9	50.6	...	...	4.1	22.5
Little River	224.2	144.0	59.0	...	...	1.3	19.9
Miller	144.7	53.9	32.7	...	...	19.3	38.8
Nevada	462.8	207.5	104.6	...	...	43.5	107.2
Ouachita	572.2	230.9	126.6	...	...	40.2	174.5
Pike	354.7	273.5	81.2	...	...	...	...
Sevier	337.8	183.5	84.2	...	...	3.9	66.2
Union	887.9	493.6	186.4	...	...	34.2	173.7
All counties	8,347.8	4,630.0	1,922.9	...	5.3	284.0	1,505.6

Table 23.--Growing-stock volume of softwoods on commercial forest land by class of timber and tree section, 1978

County	All classes	Poletimber	Sawtimber		Upper stem
			Total	Sawlog	
- - - - - Million cubic feet - - - - -					
Ashley	315.3	44.7	270.6	253.2	17.4
Bradley	284.1	51.5	232.6	215.1	17.5
Calhoun	205.7	48.6	157.1	145.8	11.3
Clark	343.9	76.1	267.8	242.9	24.9
Cleveland	262.2	46.0	216.2	201.5	14.7
Columbia	297.8	66.9	230.9	206.0	24.9
Dallas	248.8	42.1	206.7	189.5	17.2
Drew	282.8	37.5	245.3	230.6	14.7
Grant	174.1	42.0	132.1	122.5	9.6
Hempstead	244.8	63.1	181.7	162.4	19.3
Hot Spring	145.6	29.2	116.4	106.5	9.9
Howard	223.6	28.5	195.1	186.0	9.1
Lafayette	156.0	37.7	118.3	104.8	13.5
Little River	145.3	26.4	118.9	108.6	10.3
Miller	73.2	13.4	59.8	52.6	7.2
Nevada	251.0	51.3	199.7	183.3	16.4
Quachita	271.1	49.5	221.6	204.8	16.8
Pike	273.5	53.9	219.6	204.1	15.5
Sevier	187.4	22.7	164.7	157.5	7.2
Union	527.8	87.9	439.9	408.1	31.8
All counties	4,914.0	919.0	3,995.0	3,685.8	309.2

Table 24.--Growing-stock volume of hardwoods on commercial forest land by class of timber and tree section, 1978

County	All classes	Poletimber	Sawtimber		
			Total	Sawlog	Upper stem
- - - - - Million cubic feet - - - - -					
Ashley	123.5	54.2	69.3	61.3	8.0
Bradley	178.7	69.8	108.9	93.0	15.9
Calhoun	120.4	47.8	72.6	59.1	13.5
Clark	263.6	116.2	147.4	106.1	41.3
Cleveland	245.2	83.3	161.9	137.7	24.2
Columbia	183.2	85.3	97.9	82.3	15.6
Dallas	139.7	71.6	68.1	56.8	11.3
Drew	196.7	73.3	123.4	105.3	18.1
Grant	287.4	98.8	188.6	163.5	25.1
Hempstead	154.4	77.8	76.6	63.1	13.5
Hot Spring	112.6	70.6	42.0	35.0	7.0
Howard	100.3	55.2	45.1	39.5	5.6
Lafayette	73.1	35.6	37.5	30.8	6.7
Little River	78.9	50.9	28.0	23.3	4.7
Miller	71.5	40.6	30.9	25.2	5.7
Nevada	211.8	88.7	123.1	89.2	33.9
Ouachita	301.1	123.5	177.6	140.0	37.6
Pike	81.2	45.5	35.7	30.5	5.2
Sevier	150.4	71.3	79.1	66.4	12.7
Union	360.1	141.5	218.6	181.6	37.0
All counties	3,433.8	1,501.5	1,932.3	1,589.7	342.6

Table 25.--Volume of timber on commercial forest land by class of timber and species group, 1978

County	All classes	Growing stock		Rough		Rotten	
		Softwood	Hardwood	Softwood	Hardwood	Softwood	Hardwood
----- Million cubic feet -----							
Ashley	467.9	315.3	123.5	0.6	20.0	...	8.5
Bradley	510.1	284.1	178.7	1.9	28.8	0.8	15.8
Calhoun	356.8	205.7	120.4	1.2	19.2	2.1	8.2
Clark	640.3	343.9	263.6	2.4	24.9	...	5.5
Cleveland	555.3	262.2	245.2	2.0	33.5	.6	11.8
Columbia	517.2	297.8	183.2	6.9	22.2	...	7.1
Dallas	427.2	248.8	139.7	1.2	26.4	1.4	9.7
Drew	537.7	282.8	196.7	4.1	37.3	2.0	14.8
Grant	496.1	174.1	287.4	1.6	26.8	...	6.2
Hempstead	432.2	244.8	154.4	4.4	24.4	...	4.2
Hot Spring	297.2	145.6	112.6	1.7	28.5	...	8.8
Howard	345.9	223.6	100.3	2.6	18.0	...	1.4
Lafayette	255.6	156.0	73.1	1.4	18.4	...	6.7
Little River	243.5	145.3	78.9	.6	13.8	...	4.9
Miller	175.6	73.2	71.5	4.3	23.6	...	3.0
Nevada	511.3	251.0	211.8	3.0	32.0	...	13.5
Ouachita	634.4	271.1	301.1	4.3	45.0	...	12.9
Pike	365.8	273.5	81.2	.2	8.0	.2	2.7
Sevier	367.4	187.4	150.4	1.4	23.4	...	4.8
Union	968.2	527.8	360.1	5.5	52.3	.5	22.0
All counties	9,105.7	4,914.0	3,433.8	51.3	526.5	7.6	172.5

Table 26.--Number of growing stock trees by species and diameter class, 1978¹

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 and larger
----- Thousand trees -----											
Softwood:											
Shortleaf pine	85,723	24,741	18,186	16,813	12,611	7,294	3,697	1,554	562	265	...
Loblolly pine	295,771	109,770	71,582	44,003	27,669	17,655	12,229	6,552	3,612	2,627	72
Redcedar	1,771	1,507	114	72	58	20	...	...	...	...	...
Cypress	3,121	164	742	500	484	349	370	197	81	199	35
Total	386,386	136,182	90,624	61,388	40,822	25,318	16,296	8,303	4,255	3,091	107
Hardwood:											
Select white oaks ²	35,613	13,651	8,341	5,917	3,318	1,789	1,382	615	323	273	4
Select red oaks ³	16,939	5,037	4,342	2,594	1,311	1,054	966	644	479	486	26
Other white oaks	44,560	18,513	12,550	6,697	2,893	1,977	954	303	262	385	26
Other red oaks	92,719	35,583	23,034	13,697	7,719	5,294	3,783	1,651	948	951	59
Water hickory	3,174	1,463	849	221	186	180	184	50	30	11	...
Other hickories	24,733	9,916	5,726	4,495	1,944	1,434	594	301	150	173	...
Persimmon	1,104	727	190	164	23	...	...	...	...	...	...
Maple	5,955	3,601	1,391	598	131	102	70	25	11	26	...
Beech	1,186	99	295	308	177	105	31	66	47	48	10
Sweetgum	98,987	43,934	26,349	12,781	7,836	4,193	2,203	996	475	220	...
Other gums	13,546	5,349	3,573	2,195	1,074	605	420	146	134	46	4
White ash	3,493	1,093	1,256	594	367	85	64	24	10	...	...
Other ashes	4,497	2,582	978	584	22	113	122	39	30	27	...
Sycamore	710	281	133	108	52	62	16	48	...	10	...
Cottonwood	722	431	148	36	...	39	25	23	20	...	...
Sweetbay	1,889	842	494	359	131	63	...	...	...	...	...
Black cherry	1,329	719	355	158	49	40	...	...	...	8	...
American elm	4,167	1,884	853	712	372	173	89	35	32	17	...
Other elms	8,425	3,774	2,551	1,406	380	196	55	39	19	5	...
River birch	847	94	435	176	...	53	30	34	19	6	...
Hackberry	2,868	1,480	646	285	165	105	89	40	27	31	...
Locusts	332	175	50	32	75	...	...	...	...	...	...
Sassafras	774	593	123	...	28	...	18	12	...	...	...
Dogwood	1,980	1,804	176	...	...	...	...	...	...	...	...
Holly	2,189	957	549	467	147	38	31	...	...	...	...
Other hardwoods	1,761	810	208	411	128	96	62	12	...	29	5
Total	374,499	155,392	95,595	54,995	28,528	17,796	11,188	5,103	3,016	2,752	134
All species	760,885	291,574	186,219	116,383	69,350	43,114	27,484	13,406	7,271	5,843	241

¹Detailed county statistics available upon request.²Includes white, swamp chestnut, chinkapin, and bur oaks.³Includes northern red, Shumard, and cherrybark oaks.

Table 27.--Growing-stock volume on commercial forest land by species and diameter class, 1978¹

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 and larger
----- Million cubic feet -----											
Softwood:											
Shortleaf pine	1,250.0	67.3	127.1	224.6	275.8	229.8	161.7	92.2	42.7	28.8	...
Loblolly pine	3,587.3	287.8	429.2	506.0	522.9	496.8	489.3	340.2	245.8	253.9	15.4
Redcedar	5.4	3.4	.4	.6	.7	.3	...	...	...	...	...
Cypress	71.3	.5	3.3	5.8	7.3	9.1	12.8	8.6	4.0	15.2	4.7
Total	4,914.0	359.0	560.0	737.0	806.7	736.0	663.8	441.0	292.5	297.9	20.1
Hardwood:											
Select white oaks	352.4	36.3	45.1	61.2	57.0	42.0	45.4	27.1	18.2	19.5	.6
Select red oaks	246.5	13.1	25.3	27.9	21.4	26.1	33.7	29.6	27.4	38.2	3.8
Other white oaks	337.7	44.5	66.4	61.7	44.7	42.8	26.8	11.0	11.9	24.3	3.6
Other red oaks	956.9	94.7	139.4	144.1	129.8	124.0	126.2	66.6	50.1	74.7	7.3
Water hickory	24.9	3.5	4.0	2.1	2.6	3.5	4.9	2.0	1.5	.8	...
Other hickories	206.3	20.4	28.7	40.8	30.7	30.9	19.1	13.0	7.9	14.8	...
Persimmon	5.4	1.6	1.0	2.4	.4	...	...	...	...	...	...
Maple	31.6	9.4	7.9	5.7	2.0	2.3	1.9	.6	.4	1.4	...
Beech	19.6	.3	1.4	2.8	2.6	2.1	1.2	2.5	2.4	3.2	1.1
Sweetgum	886.9	101.9	156.4	151.0	157.4	124.9	91.0	53.1	31.2	20.0	...
Other gums	113.0	11.0	18.7	22.2	17.5	14.2	13.8	5.4	6.3	3.5	.4
White ash	27.5	2.6	7.7	6.3	6.3	1.7	1.7	.8	.4	...	...
Other ashes	30.8	6.8	5.7	5.3	.4	2.9	4.1	1.7	1.7	2.2	...
Sycamore	9.0	.7	1.1	1.1	1.2	1.5	.5	2.3	...	.6	...
Cottonwood	6.0	.9	.6	.5	...	1.1	.7	1.2	1.0	...	...
Sweetbay	14.2	2.7	3.5	4.6	2.3	1.1	...	...	...	...	...
Black cherry	8.3	2.3	2.0	1.3	1.1	1.1	...	...	...	.5	...
American elm	31.4	5.2	4.7	5.8	5.6	3.5	2.3	1.7	1.6	1.0	...
Other elms	54.3	10.1	14.1	15.1	5.8	4.0	2.4	1.6	.9	.3	...
River birch	9.6	.2	2.8	2.2	...	1.1	.8	1.5	.6	.4	...
Hackberry	21.9	3.1	3.5	2.4	2.6	2.5	2.3	1.7	1.4	2.4	...
Locusts	2.7	.5	.4	.3	1.5	...	...	...	...	...	...
Sassafras	3.7	1.4	.9	...	.4	...	.3	.7	...	...	...
Dogwood	3.1	2.6	.5	...	...	...	...	...	...	...	...
Holly	13.0	2.3	2.8	4.3	1.9	.8	.9	...	...	...	...
Other hardwoods	17.1	2.1	1.1	4.5	2.2	2.2	1.8	.4	...	2.3	.5
Total	3,433.8	380.2	545.7	575.6	497.4	436.3	381.8	224.5	164.9	210.1	17.3
All species	8,347.8	739.2	1,105.7	1,312.6	1,304.1	1,172.3	1,045.6	665.5	457.4	508.0	37.4

¹Detailed county statistics available upon request.

Table 28.--Sawtimber volume on commercial forest land by species and diameter class, 1978¹

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 board feet -----									
Softwood:									
Shortleaf pine	5,930.9	1,040.0	1,519.8	1,352.8	977.0	581.3	270.7	189.3	...
Loblolly pine	15,602.4	2,121.7	2,687.1	2,763.3	2,834.7	2,023.9	1,495.6	1,572.5	103.6
Redcedar	7.4	2.1	3.1	2.2	...	...	...	...	...
Cypress	339.1	19.7	31.9	43.9	64.5	43.1	23.4	83.0	29.6
Total	21,879.8	3,183.5	4,241.9	4,162.2	3,876.2	2,648.3	1,789.7	1,844.8	133.2
Hardwood:									
Select white oaks	1,082.8	...	255.3	208.1	244.1	149.5	103.3	118.1	4.4
Select red oaks	945.4	...	83.7	127.1	177.7	153.9	155.3	223.9	23.8
Other white oaks	828.6	...	196.5	209.7	141.0	61.7	61.1	140.1	18.5
Other red oaks	2,886.4	...	527.4	578.9	653.9	355.8	280.3	443.7	46.4
Water hickory	77.5	...	12.1	17.5	24.7	10.1	8.5	4.6	...
Other hickories	601.9	...	131.6	149.0	107.3	73.8	47.5	92.7	...
Persimmon	1.8	...	1.8	...	...	...	...	...	...
Maple	40.1	...	9.1	12.0	7.9	2.7	2.4	6.0	...
Beech	85.2	...	11.4	12.0	5.7	13.3	14.7	18.5	9.6
Sweetgum	2,325.8	...	596.0	624.5	491.8	304.9	184.3	124.3	...
Other gums	289.2	...	67.7	67.4	71.1	27.5	33.7	19.1	2.7
White ash	45.2	...	24.2	6.8	8.1	4.4	1.7	...	...
Other ashes	64.9	...	1.7	13.0	20.9	8.3	8.0	13.0	...
Sycamore	30.5	...	4.8	7.1	2.8	12.6	...	3.2	...
Cottonwood	21.6	...	...	6.0	3.6	7.3	4.7	...	...
Sweetbay	15.0	...	10.9	4.1	...	...	...	...	...
Black cherry	13.6	...	5.7	4.9	...	...	...	3.0	...
American elm	72.4	...	22.5	16.1	11.1	7.5	9.4	5.8	...
Other elms	74.7	...	22.8	19.6	15.9	9.2	5.4	1.8	...
River birch	21.6	...	...	6.0	3.6	6.2	3.9	1.9	...
Hackberry	58.3	...	9.7	7.1	13.1	6.9	8.6	12.9	...
Locusts	6.5	...	6.5	...	...	...	...	...	...
Sassafras	7.1	...	1.2	...	1.8	4.1	...	...	...
Holly	13.8	...	7.9	2.5	3.4	...	...	...	...
Other hardwoods	47.4	...	9.9	10.2	9.2	2.2	...	13.6	2.3
Total	9,657.3	...	2,020.4	2,109.6	2,018.7	1,221.9	932.8	1,246.2	107.7
All species	31,537.1	3,183.5	6,262.3	6,271.8	5,894.9	3,870.2	2,722.5	3,091.0	240.9

¹Detailed county statistics available upon request.

Table 29.--Growing-stock volume in the saw-log portion of sawtimber trees on commercial forest land by diameter class and species, 1978

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:									
Shortleaf pine	978.3	191.1	255.1	219.3	154.1	89.4	41.3	28.0	...
Loblolly pine	2,644.1	413.6	477.8	466.5	466.6	326.8	235.7	242.3	14.8
Redcedar	1.3	.4	.6	.3	...	...	...	...	...
Cypress	62.1	4.4	6.6	7.8	12.0	8.0	3.9	14.8	4.6
Total	3,685.8	609.5	740.1	693.9	632.7	424.2	280.9	285.1	19.4
Hardwood:									
Select white oaks	176.0	...	45.5	34.8	39.6	22.8	15.0	17.7	.6
Select red oaks	150.4	...	15.8	21.5	29.1	24.6	23.3	32.7	3.4
Other white oaks	138.0	...	35.9	36.6	23.3	9.7	9.5	20.5	2.5
Other red oaks	477.0	...	97.2	101.7	106.3	57.0	43.2	64.8	6.8
Water hickory	12.9	...	2.3	2.9	4.2	1.6	1.2	.7	...
Other hickories	98.0	...	24.4	25.0	17.0	11.4	6.9	13.3	...
Persimmon	.3	...	.3	...	...	...	...	...	...
Maple	6.6	...	1.7	1.9	1.3	.3	.4	1.0	...
Beech	12.7	...	1.9	2.0	.9	1.9	2.2	2.7	1.1
Sweetgum	385.4	...	108.1	104.0	79.5	47.5	28.0	18.3	...
Other gums	49.7	...	12.6	11.9	12.0	4.4	5.3	3.1	.4
White ash	8.4	...	4.6	1.3	1.4	.8	.3	...	...
Other ashes	10.4	...	.4	2.2	3.3	1.3	1.3	1.9	...
Sycamore	5.2	...	.9	1.3	.5	2.1	...	.4	...
Cottonwood	3.6	...	...	1.0	.7	1.2	.7	...	...
Sweetbay	2.7	...	1.9	.8	...	...	...	...	...
Black cherry	2.4	...	1.0	.9	...	...	...	.5	...
American elm	11.5	...	3.8	2.7	1.7	1.1	1.3	.9	...
Other elms	12.2	...	4.3	3.1	2.3	1.4	.8	.3	...
River birch	3.5	...	...	1.0	.7	.9	.6	.3	...
Hackberry	9.8	...	1.9	1.4	2.1	1.0	1.4	2.0	...
Locusts	1.2	...	1.2	...	...	...	...	...	...
Sassafras	1.3	...	.3	...	.3	.7	...	...	...
Holly	2.5	...	1.6	.4	.5	...	...	...	...
Other hardwoods	8.0	...	1.8	1.8	1.5	.4	...	2.1	.4
Total	1,589.7	...	369.4	360.2	328.2	192.1	141.4	183.2	15.2
All species	5,275.5	609.5	1,109.5	1,054.1	960.9	616.3	422.3	468.3	34.6

Table 30.--Growing-stock volume on commercial forest land by species,
class of timber and tree section, 1978

Species	All classes	Poletimber	Sawtimber		
			Total	Sawlog	Upper stem
- - - - - Million cubic feet - - - - -					
Softwood:					
Shortleaf pine	1,250.0	194.4	1,055.6	978.3	77.3
Loblolly pine	3,587.3	717.0	2,870.3	2,644.1	226.2
Redcedar	5.4	3.8	1.6	1.3	.3
Cypress	71.3	3.8	67.5	62.1	5.4
Total	4,914.0	919.0	3,995.0	3,685.8	309.2
Hardwood:					
Select white oaks	352.4	142.6	209.8	176.0	33.8
Select red oaks	246.5	66.3	180.2	150.4	29.8
Other white oaks	337.7	172.6	165.1	138.0	27.1
Other red oaks	956.9	378.2	578.7	477.0	101.7
Water hickory	24.9	9.6	15.3	12.9	2.4
Other hickories	206.3	89.9	116.4	98.0	18.4
Persimmon	5.4	5.0	.4	.3	.1
Maple	31.6	23.0	8.6	6.6	2.0
Beech	19.6	4.5	15.1	12.7	2.4
Sweetgum	886.9	409.3	477.6	385.4	92.2
Other gums	113.0	51.9	61.1	49.7	11.4
White ash	27.5	16.6	10.9	8.4	2.5
Other ashes	30.8	17.8	13.0	10.4	2.6
Sycamore	9.0	2.9	6.1	5.2	.9
Cottonwood	6.0	2.0	4.0	3.6	.4
Sweetbay	14.2	10.8	3.4	2.7	.7
Black cherry	8.3	5.6	2.7	2.4	.3
American elm	31.4	15.7	15.7	11.5	4.2
Other elms	54.3	39.3	15.0	12.2	2.8
River birch	9.6	5.2	4.4	3.5	.9
Hackberry	21.9	9.0	12.9	9.8	3.1
Locusts	2.7	1.2	1.5	1.2	.3
Sassafras	3.7	2.3	1.4	1.3	.1
Dogwood	3.1	3.1	...	...	...
Holly	13.0	9.4	3.6	2.5	1.1
Other commercial	17.1	7.7	9.4	8.0	1.4
Total	3,433.8	1,501.5	1,932.3	1,589.7	342.6
All species	8,347.8	2,420.5	5,927.3	5,275.5	651.8

Table 31.--Volume of timber on commercial forest land by species and class of timber, 1978

Species	All live	Growing stock	Rough	Rotten
- - - - - Million cubic feet - - - - -				
Softwood				
Shortleaf pine	1,260.6	1,250.0	10.4	0.2
Loblolly pine	3,625.9	3,587.3	38.3	.3
Redcedar	6.0	5.4	.6	...
Cypress	80.4	71.3	2.0	7.1
Total	4,972.9	4,914.0	51.3	7.6
Hardwood:				
Select white oaks	394.0	352.4	32.8	8.8
Select red oaks	264.7	246.5	11.5	6.7
Other white oaks	405.5	337.7	52.2	15.6
Other red oaks	1,128.0	956.9	123.5	47.6
Water hickory	28.4	24.9	2.1	1.4
Other hickories	246.4	206.3	29.6	10.5
Persimmon	7.0	5.4	1.6	...
Maple	59.4	31.6	22.8	5.0
Beech	47.3	19.6	12.4	15.3
Sweetgum	993.1	886.9	73.5	32.7
Other gums	146.7	113.0	23.0	10.7
White ash	35.3	27.5	6.1	1.7
Other ashes	37.9	30.8	6.1	1.0
Sycamore	11.2	9.0	1.6	.6
Cottonwood	7.0	6.0	.9	.1
Sweetbay	21.6	14.2	4.2	3.2
Black cherry	9.4	8.3	.8	.3
American elm	39.2	31.4	6.5	1.3
Other elms	65.7	54.3	10.2	1.2
River birch	10.4	9.6	.3	.5
Hackberry	31.1	21.9	7.1	2.1
Locusts	5.2	2.7	1.9	.6
Sassafras	4.8	3.7	1.1	...
Dogwood	3.7	3.1	.4	.2
Holly	37.7	13.0	20.6	4.1
Other commercial	28.2	17.1	9.8	1.3
Noncommercial	63.9	...	63.9	...
Total	4,132.8	3,433.8	526.5	172.5
All species	9,105.7	8,347.8	577.8	180.1

Table 33.-- Average volume per acre of growing stock and sawtimber on commercial forest land by forest type and species group, 1978

Forest type	Growing stock			Sawtimber		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood
- - - - - Cubic feet - - - - -						
Loblolly-shortleaf pine	1,508	1,334	174	6,112	5,784	328
Oak-pine	1,200	731	469	4,439	3,369	1,070
Oak-hickory	982	219	763	2,984	1,039	1,945
Oak-gum-cypress	1,329	147	1,182	4,954	798	4,156
Elm-ash-cottonwood	721	120	601	2,088	417	1,671
All types	1,307	769	538	4,937	3,425	1,512

Table 32.-- Average volume per acre of growing stock and sawtimber on commercial forest land by species group and ownership class, 1978

Ownership class	Growing stock			Sawtimber		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood
- - - - - Cubic feet - - - - -						
National forest	1,184	816	368	4,579	3,816	763
Other public	1,307	668	639	5,352	3,299	2,053
Forest industry	1,307	817	490	5,371	3,803	1,568
Farmer	1,103	624	479	3,684	2,539	1,145
Misc. private	1,380	763	617	4,783	3,243	1,540
All ownerships	1,307	769	538	4,937	3,425	1,512

Table 34.-- Metric area of commercial forest land by ownership class, 1978

County	All ownerships	National forest	Other public	Forest industry	Farmer	Misc. private
- - - - - Thousand hectares - - - - -						
Ashley	149.4	...	9.0	96.8	8.4	35.2
Bradley	148.1	...	6.9	82.6	19.3	39.3
Calhoun	136.1	...	...	100.3	7.1	28.7
Clark	162.0	...	.1	58.7	16.3	86.9
Cleveland	129.1	...	...	65.7	2.3	61.1
Columbia	157.8	...	.1	34.2	21.0	102.5
Dallas	145.8	...	(1)	102.9	19.2	23.7
Drew	147.3	...	4.1	77.8	21.0	44.4
Grant	134.8	...	...	99.1	...	35.7
Hempstead	108.8	...	3.3	29.5	11.3	64.7
Hot Spring	105.1	0.2	(1)	52.5	2.4	50.0
Howard	95.2	.5	...	64.1	11.6	19.0
Lafayette	80.3	...	.2	25.1	24.9	30.1
Little River	76.4	...	(1)	38.2	21.4	16.8
Miller	68.0	...	5.0	7.3	36.3	19.4
Nevada	124.2	...	3.0	45.4	19.0	56.8
Ouachita	155.6	...	7.8	50.2	20.0	77.6
Pike	119.9	.8	...	90.0	16.1	13.0
Sevier	101.0	...	...	50.5	10.5	40.0
Union	240.4	...	10.3	86.8	48.8	94.5
All counties	2,585.3	1.5	49.8	1,257.7	336.9	939.4

¹Negligible.

Table 35.--Metric volume of growing stock on commercial forest land by species group, 1978

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
----- Thousand cubic meters -----								
Ashley	12,425	8,928	8,871	57	3,497	2,181	767	549
Bradley	13,105	8,045	7,960	85	5,060	2,908	1,489	663
Calhoun	9,234	5,825	5,109	716	3,409	1,855	940	614
Clark	17,203	9,738	9,630	108	7,465	4,528	1,286	1,651
Cleveland	14,368	7,425	7,414	11	6,943	3,560	2,483	900
Columbia	13,621	8,433	8,391	42	5,188	2,928	1,699	561
Dallas	11,001	7,045	7,045	...	3,956	2,200	1,147	609
Drew	13,578	8,008	7,507	501	5,570	3,075	1,589	906
Grant	13,069	4,930	4,808	122	8,139	4,435	2,916	788
Hempstead	11,304	6,932	6,918	14	4,372	2,115	1,116	1,141
Hot Spring	7,311	4,123	4,123	...	3,188	2,056	733	399
Howard	9,172	6,332	6,301	31	2,840	1,274	881	685
Lafayette	6,487	4,417	4,400	17	2,070	1,269	376	425
Little River	6,349	4,115	4,115	...	2,234	1,506	462	266
Miller	4,098	2,073	1,906	167	2,025	1,090	456	479
Nevada	13,105	7,107	7,093	14	5,998	3,265	2,050	683
Ouachita	16,203	7,677	7,640	37	8,526	4,236	3,271	1,019
Pike	10,044	7,745	7,725	20	2,299	1,520	391	388
Sevier	9,565	5,306	5,235	71	4,259	2,027	1,034	1,198
Union	25,143	14,946	14,787	159	10,197	5,590	3,228	1,379
All counties	236,385	139,150	136,978	2,172	97,235	53,618	28,314	15,303

Table 36.--Average volume per hectare of growing stock on commercial forest land by species group and ownership class, 1978

Ownership class	Growing stock		
	All species	Softwood	Hardwood
----- Cubic meters -----			
National forest	83	57	26
Other public	91	46	45
Forest industry	91	57	34
Farmer	77	43	34
Misc. private	96	53	43
All ownerships	91	53	38

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