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Forest Statistics
For
Arkansas Ozark Counties

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T. RICHARD QUICK and MARY S. HEDLUND

These tables were derived from data obtained during a 1978 inventory of 24 counties comprising the Ozark Unit of Arkansas (fig. 1). Forest area was estimated from aerial photos with an adjustment of ground truth at selected locations. Sample plots were systematically established at three-mile intervals using a grid orientated roughly N-S and E-W. At each location, prism sample points were distributed over approximately 1 acre. Volume estimates were based on measurement of trees selected at these sample points.

The sampling methods were developed to provide suitable state estimates. Estimates for smaller areas are presented, but sampling error increases as the area considered declines. 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 the 1969 inventory are invalid. 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Commercial forest land.—Forest land producing or capable of producing crops of industrial wood and not withdrawn from timber utilization.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 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 bottom-land hardwood.

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

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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 non-commercial 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.

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.

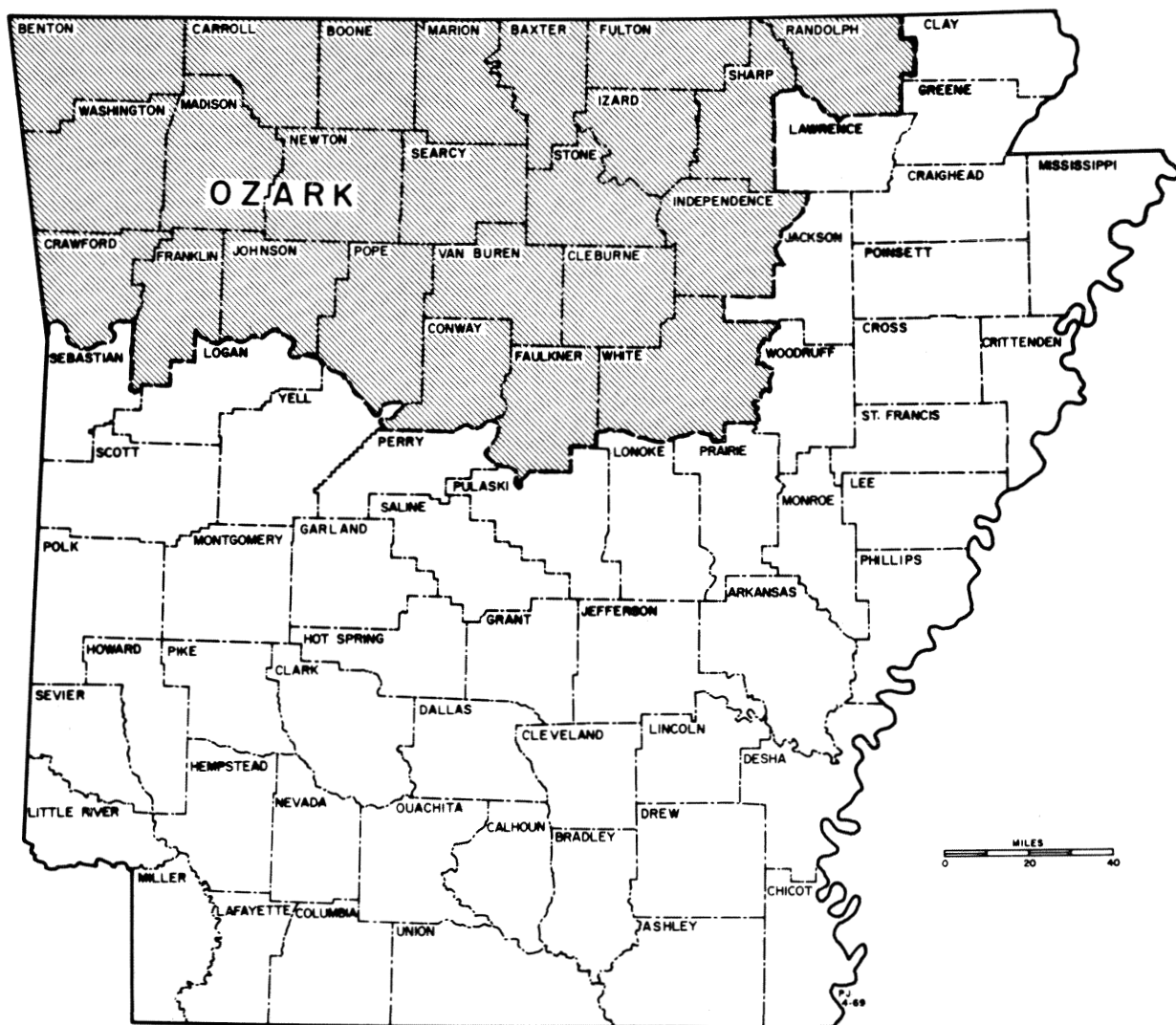


Figure 1.—The Ozark forest survey region of Arkansas.

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

County	Commercial forest land	Growing stock	Sawtimber
----- Percent -----			
Aaxter	7	12	14
Anton	2	13	19
Bacon	5	18	25
Barroll	6	14	23
Belburne	4	12	19
Donway	3	15	22
Rawford	3	14	25
Aulkner	1	14	21
Franklin	2	13	22
Wilton	5	24	24
Independence	3	10	15
Card	6	14	17
Johnson	4	9	16
Madison	3	9	13
Marion	10	16	21
Lewton	3	7	12
Hope	2	8	13
Danldolph	3	17	30
Searcy	5	10	15
Sharp	4	14	20
Stone	3	9	15
Van Buren	3	8	15
Washington	3	11	15
White	2	13	23
All counties	0.7	2.4	4.0

¹By random-sampling formula.

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

Species	Growing stock	Sawtimber
----- Percent -----		
Softwood:		
Shortleaf pine	9	12
Loblolly pine	84	68
Redcedar	13	20
Cypress	76	74
All softwoods	8.5	11.3
Hardwood:		
Select white oaks	5	6
Select red oaks	7	10
Other white oaks	6	9
Other red oaks	6	7
Water hickory	62	69
Other hickories	5	9
Persimmon	32	100
Hard maple	21	36
Soft maple	22	42
Boxelder	58	100
Beech	49	50
Sweetgum	13	16
Blackgum	11	16
Other gums	96	100
White ash	15	21
Other ashes	39	51
Sycamore	23	23
Cottonwood	72	77
Basswood	35	41
Magnolia	58	84
Willow	100	...
Black walnut	16	24
Black cherry	24	38
American elm	22	28
Other elms	13	33
River birch	58	75
Hackberry	29	37
Black locust	36	78
Other locusts	42	57
Sassafras	76	...
Dogwood	28	...
Other hardwoods	42	100
All hardwoods	2.7	4.2
All species	2.4	4.0

Table 3.--*Change¹ in forest resource
since 1969*

Item	Change
<i>- Percent -</i>	
Commercial forest land	-17
Growing-stock volume:	
Softwood	+20
Hardwood	- 6
All species	- 2
Sawtimber volume:	
Softwood	+25
Hardwood	- 5
All species	+ 1

¹Based on current measurement standards

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

County	Total area ¹	Commercial forest	
		Area	Proportion
<i>- - Thousand acres - - Percent -</i>			
Baxter	369.9	165.2	45
Benton	567.1	176.0	31
Boone	386.6	134.4	35
Carroll	405.7	136.3	34
Cleburne	380.8	214.2	56
Conway	364.2	120.0	33
Crawford	388.5	213.9	55
Faulkner	422.4	144.0	34
Franklin	398.7	204.0	51
Fulton	391.0	171.6	44
Independence	486.4	223.2	46
Izard	369.3	159.5	43
Johnson	435.2	275.6	63
Madison	532.5	336.0	63
Marion	407.6	123.9	30
Newton	526.1	380.8	72
Pope	526.0	365.8	70
Randolph	414.1	147.0	35
Searcy	425.0	220.0	52
Sharp	382.7	222.0	58
Stone	391.7	302.4	77
Van Buren	457.0	313.2	69
Washington	616.3	255.0	41
White	667.5	200.6	30
All counties	10,712.3	5,204.6	49

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 - - - - -						
Baxter	165.2	49.1	21.5	...	35.7	58.9
Benton	176.0	6.7	3.5	...	38.8	127.0
Boone	134.4	...	5.4	...	96.8	32.2
Carroll	136.3	...	3.0	4.7	56.9	71.7
Cleburne	214.2	...	3.1	25.5	25.7	159.9
Conway	120.0	6.8	...	15.0	15.1	83.1
Crawford	213.9	81.9	.2	...	...	131.8
Faulkner	144.0	...	11.8	...	4.8	127.4
Franklin	204.0	98.2	.4	...	54.9	50.5
Fulton	171.6	...	1.5	...	68.2	101.9
Independence	223.2	...	2.3	6.2	137.6	77.1
Izard	159.5	...	...	...	49.9	109.6
Johnson	275.6	170.2	.1	...	16.0	89.3
Madison	336.0	46.9	12.8	...	129.9	146.4
Marion	123.9	...	18.8	...	47.6	57.5
Newton	380.8	180.0	12.3	...	79.1	109.4
Pope	365.8	180.5	5.2	...	41.7	138.4
Randolph	147.0	...	7.3	...	63.5	76.2
Searcy	220.0	28.9	5.7	...	49.9	135.5
Sharp	222.0	...	...	...	72.6	149.4
Stone	302.4	55.7	.9	16.2	49.0	180.6
Van Buren	313.2	31.3	12.0	48.6	130.7	90.6
Washington	255.0	20.9	1.6	5.1	82.3	145.1
White	200.6	...	16.1	...	17.9	166.6
All counties	5,204.6	957.1	145.5	121.3	1,364.6	2,616.1

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 - - - - -						
Baxter	165.2	5.9	17.7	141.6	...	...
Benton	176.0	...	5.5	170.5	...	...
Boone	134.4	...	12.8	121.6	...	...
Carroll	136.3	...	32.9	103.4	...	...
Cleburne	214.2	35.7	45.9	127.5	5.1	...
Conway	120.0	22.5	22.5	52.5	22.5	...
Crawford	213.9	13.8	48.3	151.8	...	...
Faulkner	144.0	4.8	14.4	100.8	24.0	...
Franklin	204.0	20.4	20.4	163.2	...	...
Fulton	171.6	10.4	5.2	156.0	...	...
Independence	223.2	24.8	37.2	161.2	...	...
Izard	159.5	33.0	16.5	104.5	5.5	...
Johnson	275.6	47.7	53.0	174.9	...	...
Madison	336.0	16.8	16.8	302.4	...	...
Marion	123.9	11.8	...	112.1	...	...
Newton	380.8	16.8	39.2	319.2	...	5.6
Pope	365.8	70.8	59.0	230.1	5.9	...
Randolph	147.0	...	7.0	126.0	14.0	...
Searcy	220.0	5.5	11.0	203.5	...	...
Sharp	222.0	12.0	18.0	192.0	...	...
Stone	302.4	27.0	81.0	194.4	...	...
Van Buren	313.2	37.8	43.2	232.2	...	...
Washington	255.0	10.2	5.1	239.7	...	...
White	200.6	5.9	17.7	118.0	59.0	...
All counties	5,204.6	433.6	630.3	3,999.1	136.0	5.6

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

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
----- Thousand acres -----					
Baxter	165.2	64.9	59.0	41.3	...
Benton	176.0	60.5	44.0	71.5	...
Boone	134.4	44.8	25.6	64.0	...
Carroll	136.3	23.5	51.7	61.1	...
Cleburne	214.2	40.8	107.1	66.3	...
Conway	120.0	22.5	67.5	30.0	...
Crawford	213.9	62.1	96.6	55.2	...
Faulkner	144.0	24.0	67.2	52.8	...
Franklin	204.0	54.4	102.0	47.6	...
Fulton	171.6	20.8	52.0	83.2	15.6
Independence	223.2	68.2	55.8	99.2	...
Izard	159.5	44.0	55.0	60.5	...
Johnson	275.6	95.4	127.2	53.0	...
Madison	336.0	106.4	100.8	128.8	...
Marion	123.9	41.3	41.3	41.3	...
Newton	380.8	100.8	229.6	44.8	5.6
Pope	365.8	100.3	194.7	70.8	...
Randolph	147.0	42.0	63.0	42.0	...
Searcy	220.0	44.0	88.0	88.0	...
Sharp	222.0	30.0	90.0	96.0	6.0
Stone	302.4	64.8	129.6	108.0	...
Van Buren	313.2	37.8	178.2	91.8	5.4
Washington	255.0	61.2	96.9	96.9	...
White	200.6	64.9	70.8	64.9	...
All counties	5,204.6	1,319.4	2,193.6	1,659.0	32.6

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

County	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 -----						
Baxter	165.2	...	...	5.9	35.4	123.9
Benton	176.0	...	...	...	88.0	88.0
Boone	134.4	...	...	6.4	64.0	64.0
Carroll	136.3	...	...	...	37.6	98.7
Cleburne	214.2	...	5.1	15.3	71.4	122.4
Conway	120.0	...	7.5	30.0	52.5	30.0
Crawford	213.9	...	...	6.9	124.2	82.8
Faulkner	144.0	...	...	28.8	48.0	67.2
Franklin	204.0	...	...	6.8	54.4	142.8
Fulton	171.6	...	...	20.8	26.0	124.8
Independence	223.2	...	...	12.4	86.8	124.0
Izard	159.5	...	...	5.5	38.5	115.5
Johnson	275.6	...	...	...	143.1	132.5
Madison	336.0	...	...	11.2	100.8	224.0
Marion	123.9	...	...	5.9	23.6	94.4
Newton	380.8	...	...	5.6	173.6	201.6
Pope	365.8	...	5.9	53.1	153.4	153.4
Randolph	147.0	...	...	7.0	28.0	112.0
Searcy	220.0	...	...	5.5	77.0	137.5
Sharp	222.0	...	...	12.0	72.0	138.0
Stone	302.4	...	5.4	10.8	97.2	189.0
Van Buren	313.2	...	...	5.4	189.0	118.8
Washington	255.0	...	...	...	107.1	147.9
White	200.6	...	23.6	17.7	88.5	70.8
All counties	5,204.6	...	47.5	273.0	1,980.1	2,904.0

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

County	All sites	Pine	Upland hardwood	Bottomland hardwood
- - - - - Thousand acres - - - - -				
Baxter	165.2	76.7	88.5	...
Benton	176.0	22.0	154.0	...
Boone	134.4	32.0	102.4	...
Carroll	136.3	51.7	84.6	...
Cleburne	214.2	209.1	...	5.1
Conway	120.0	75.0	22.5	22.5
Crawford	213.9	62.1	151.8	...
Faulkner	144.0	38.4	81.6	24.0
Franklin	204.0	108.8	95.2	...
Fulton	171.6	41.6	130.0	...
Independence	223.2	111.6	111.6	...
Izard	159.5	121.0	33.0	5.5
Johnson	275.6	164.3	111.3	...
Madison	336.0	33.6	302.4	...
Marion	123.9	76.7	47.2	...
Newton	380.8	151.2	229.6	...
Pope	365.8	300.9	59.0	5.9
Randolph	147.0	...	133.0	14.0
Searcy	220.0	88.0	132.0	...
Sharp	222.0	36.0	186.0	...
Stone	302.4	210.6	91.8	...
Van Buren	313.2	291.6	21.6	...
Washington	255.0	20.4	234.6	...
White	200.6	70.8	70.8	59.0
All counties	5,204.6	2,394.1	2,674.5	136.0

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-----								
Baxter	1,448	247	199	48	1,201	976	58	167
Benton	1,531	31	20	11	1,500	1,261	24	215
Boone	1,141	29	9	20	1,112	915	3	194
Carroll	1,023	129	120	9	894	730	3	161
Cleburne	1,999	875	832	43	1,124	628	178	318
Conway	1,171	311	243	68	860	333	228	299
Crawford	2,441	453	317	136	1,988	1,264	233	491
Faulkner	960	97	64	33	863	509	109	245
Franklin	2,718	487	440	47	2,231	1,343	357	531
Fulton	933	317	312	5	616	464	21	131
Independence	1,893	351	328	23	1,542	1,059	116	367
Izard	1,175	575	542	33	600	388	45	167
Johnson	4,052	1,168	1,109	59	2,884	1,970	393	521
Madison	3,209	149	128	21	3,060	2,009	167	884
Marion	858	101	49	52	757	618	26	113
Newton	4,422	400	350	50	4,022	2,794	252	976
Pope	5,262	1,563	1,508	55	3,699	2,652	481	566
Randolph	1,308	11	...	11	1,297	855	46	396
Searcy	1,952	191	188	3	1,761	1,160	107	494
Sharp	1,302	144	96	48	1,158	933	10	215
Stone	2,932	657	595	62	2,275	1,662	140	473
Van Buren	2,777	768	684	84	2,009	1,422	149	438
Washington	2,354	117	64	53	2,237	1,509	69	659
White	1,998	197	120	77	1,801	915	313	573
All counties	50,859	9,378	8,317	1,051	41,491	28,369	3,528	9,594

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 -----								
Baxter	99.0	18.5	14.9	3.6	80.5	65.4	3.9	11.2
Benton	102.8	2.3	1.5	.8	100.5	84.5	1.6	14.4
Boone	76.7	2.2	.7	1.5	74.5	61.3	.2	13.0
Carroll	69.6	9.7	9.0	.7	59.9	48.9	.2	10.8
Cleburne	140.9	65.6	62.4	3.2	75.3	42.1	11.9	21.3
Conway	80.9	23.3	18.2	5.1	57.6	22.3	15.3	20.0
Crawford	167.2	34.0	23.8	10.2	133.2	84.7	15.6	32.9
Faulkner	65.1	7.3	4.8	2.5	57.8	34.1	7.3	16.4
Franklin	186.0	36.5	33.0	3.5	149.5	90.0	23.9	35.6
Fulton	65.1	23.8	23.4	.4	41.3	31.1	1.4	8.8
Independence	129.6	26.3	24.6	1.7	103.3	70.9	7.8	24.6
Izard	83.3	43.1	40.6	2.5	40.2	26.0	3.0	11.2
Johnson	280.8	87.6	83.2	4.4	193.2	132.0	26.3	34.9
Madison	216.2	11.2	9.6	1.6	205.0	134.6	11.2	59.2
Marion	58.3	7.6	3.7	3.9	50.7	41.4	1.7	7.6
Newton	299.5	30.0	26.3	3.7	269.5	187.2	16.9	65.4
Pope	365.0	117.2	113.1	4.1	247.8	177.7	32.2	37.9
Randolph	87.7	.8	...	.8	86.9	57.3	3.1	26.5
Searcy	132.3	14.3	14.1	.2	118.0	77.7	7.2	33.1
Sharp	88.4	10.8	7.2	3.6	77.6	62.5	.7	14.4
Stone	201.7	49.3	44.6	4.7	152.4	111.3	9.4	31.7
Van Buren	192.2	57.6	51.3	6.3	134.6	95.3	10.0	29.3
Washington	158.7	8.8	4.8	4.0	149.9	101.1	4.6	44.2
White	135.5	14.8	9.0	5.8	120.7	61.3	21.0	38.4
All counties	3,482.5	702.6	623.8	78.8	2,779.9	1,900.7	236.4	642.8

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 - - - - -								
Baxter	290.7	44.5	38.6	5.9	246.2	218.0	7.7	20.5
Benton	309.3	10.3	7.2	3.1	299.0	263.1	7.4	28.5
Boone	218.6	3.3	2.0	1.3	215.3	186.9	...	28.4
Carroll	192.0	35.7	35.7	...	156.3	137.9	.7	17.7
Cleburne	357.8	226.6	220.2	6.4	131.2	66.7	43.1	21.4
Conway	199.8	53.6	45.6	8.0	146.2	37.8	54.9	53.5
Crawford	469.9	127.3	110.7	16.6	342.6	221.2	43.8	77.6
Faulkner	156.0	19.4	15.9	3.5	136.6	84.3	24.3	28.0
Franklin	482.2	120.1	115.2	4.9	362.1	234.1	67.6	60.4
Fulton	141.1	35.5	34.6	.9	105.6	93.0	3.0	9.6
Independence	388.4	74.8	72.2	2.6	313.6	226.6	26.1	60.9
Izard	204.5	113.4	109.2	4.2	91.1	62.4	6.9	21.8
Johnson	918.5	393.5	380.1	13.4	525.0	352.6	78.7	93.7
Madison	501.7	31.4	28.6	2.8	470.3	301.5	35.6	133.2
Marion	152.2	17.6	11.5	6.1	134.6	114.6	6.3	13.7
Newton	732.0	102.1	97.3	4.8	629.9	421.0	67.6	141.3
Pope	1,068.6	431.2	428.3	2.9	637.4	435.0	137.2	65.2
Randolph	224.0	1.1	...	1.1	222.9	176.2	6.6	40.1
Searcy	343.4	58.5	58.5	...	284.9	194.5	22.1	68.3
Sharp	176.3	8.2	6.8	1.4	168.1	150.4	2.0	15.7
Stone	497.6	174.6	172.3	2.3	323.0	227.6	29.2	66.2
Van Buren	387.0	173.1	165.7	7.4	213.9	158.1	23.8	32.0
Washington	348.2	25.8	15.9	9.9	322.4	233.5	7.0	81.9
White	413.4	44.2	21.6	22.6	369.2	174.4	63.7	131.1
All counties	9,173.2	2,325.8	2,193.7	132.1	6,847.4	4,771.4	765.3	1,310.7

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 - - - - -							
Baxter	290.7	44.5	41.1	3.4	246.2	99.6	146.6
Benton	309.3	10.3	3.1	7.2	299.0	120.6	178.4
Boone	218.6	3.3	2.0	1.3	215.3	81.6	133.7
Carroll	192.0	35.7	24.7	11.0	156.3	83.2	73.1
Cleburne	357.8	226.6	211.0	15.6	131.2	75.1	56.1
Conway	199.8	53.6	45.9	7.7	146.2	41.2	105.0
Crawford	469.9	127.3	65.7	61.6	342.6	214.4	128.2
Faulkner	156.0	19.4	17.9	1.5	136.6	72.2	64.4
Franklin	482.2	120.1	51.8	68.3	362.1	191.6	170.5
Fulton	141.1	35.5	35.5	...	105.6	56.1	49.5
Independence	388.4	74.8	71.6	3.2	313.6	148.8	164.8
Izard	204.5	113.4	103.3	10.1	91.1	56.7	34.4
Johnson	918.5	393.5	279.4	114.1	525.0	211.4	313.6
Madison	501.7	31.4	30.0	1.4	470.3	259.6	210.7
Marion	152.2	17.6	11.4	6.2	134.6	61.9	72.7
Newton	732.0	102.1	90.7	11.4	629.9	311.9	318.0
Pope	1,068.6	431.2	298.2	133.0	637.4	294.2	343.2
Randolph	224.0	1.1	1.1	...	222.9	94.0	128.9
Searcy	343.4	58.5	42.1	16.4	284.9	163.0	121.9
Sharp	176.3	8.2	6.0	2.2	168.1	102.4	65.7
Stone	497.6	174.6	127.3	47.3	323.0	177.8	145.2
Van Buren	387.0	173.1	139.2	33.9	213.9	151.8	62.1
Washington	348.2	25.8	25.8	...	322.4	152.2	170.2
White	413.4	44.2	25.5	18.7	369.2	125.6	243.6
All counties	9,173.2	2,325.8	1,750.3	575.5	6,847.4	3,346.9	3,500.5

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

County	All types	Loblolly- shortleaf pine	Oak- pine	Oak- hickory	Oak- gum- cypress	Elm- ash- cottonwood
<i>- - - - - Million cubic feet - - - - -</i>						
Baxter	18.5	9.8	6.1	2.6	...	...
Benton	2.3	...	.8	1.5	...	...
Boone	2.2	...	.9	1.3	...	...
Carroll	9.7	...	7.8	1.9	...	...
Cleburne	65.6	34.2	18.4	13.0	...	...
Conway	23.3	11.1	8.9	3.3	...	...
Crawford	34.0	24.6	4.5	4.9	...	...
Faulkner	7.3	.6	4.8	1.9	...	...
Franklin	36.5	15.4	19.3	1.8	...	...
Fulton	23.8	21.8	1.6	.4	...	...
Independence	26.3	13.3	8.8	4.2	...	...
Izard	43.1	32.0	5.8	5.3	...	...
Johnson	87.6	64.0	18.4	5.2	...	...
Madison	11.2	1.7	8.3	1.2	...	...
Marion	7.6	5.4	...	2.2	...	...
Newton	30.0	12.2	8.9	8.9	...	...
Pope	117.2	84.3	23.2	9.7	...	...
Randolph	.8	...	...	.8	...	...
Searcy	14.3	7.2	4.9	2.2	...	...
Sharp	10.8	7.3	1.9	1.6	...	...
Stone	49.3	13.5	27.6	8.2	...	...
Van Buren	57.6	29.2	16.9	11.5	...	...
Washington	8.8	3.2	4.6	1.0	...	...
White	14.8	.3	6.8	3.3	4.4	...
All counties	702.6	391.1	209.2	97.9	4.4	...

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

County	All types	Loblolly- shortleaf pine	Oak- pine	Oak- hickory	Oak- gum- cypress	Elm- ash- cottonwood
- - - - - Million cubic feet - - - - -						
Baxter	80.5	1.4	1.8	77.3	...	...
Benton	100.5	...	...	100.5	...	...
Boone	74.5	...	4.1	70.4	...	...
Carroll	59.9	...	5.3	54.6	...	...
Cleburne	75.3	5.4	15.2	49.3	5.4	...
Conway	57.6	4.3	7.0	25.8	20.5	...
Crawford	133.2	1.1	14.1	118.0	...	...
Faulkner	57.8	...	3.6	36.7	17.5	...
Franklin	149.5	.4	10.4	138.7	...	...
Fulton	41.3	.3	...	41.0	...	...
Independence	103.3	1.3	12.4	89.6	...	...
Izard	40.2	4.9	4.0	29.4	1.9	...
Johnson	193.2	7.1	19.6	166.5	...	...
Madison	205.0	1.3	6.1	197.6	...	...
Marion	50.7	8	...	49.9	...	...
Newton	269.5	2.5	8.2	253.1	...	5.7
Pope	247.8	13.4	24.3	201.7	8.4	...
Randolph	86.9	...	2.3	70.4	14.2	...
Searcy	118.0	1.2	5.2	111.6	...	...
Sharp	77.6	1.7	5.3	70.6	...	...
Stone	152.4	2.1	23.1	127.2	...	...
Van Buren	134.6	3.0	14.8	116.8	...	...
Washington	149.9	.4	3.3	146.2	...	...
White	120.7	...	3.0	51.4	66.3	...
All counties	2,779.9	52.6	193.1	2,394.3	134.2	5.7

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

County	All types	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood
- - - - - Million board feet - - - - -						
Baxter	44.5	23.5	20.2	.8	...	...
Benton	10.3	...	3.1	7.2	...	...
Boone	3.3	...	...	3.3	...	...
Carroll	35.7	...	30.0	5.7	...	...
Cleburne	226.6	115.6	67.0	44.0	...	...
Conway	53.6	12.5	29.4	11.7	...	...
Crawford	127.3	110.7	5.6	11.0	...	...
Faulkner	19.4	1.0	10.9	7.5	...	...
Franklin	102.1	43.7	72.5	3.9	...	...
Fulton	35.5	26.1	8.5	.9	...	...
Independence	74.8	51.1	14.6	9.1	...	...
Izard	113.4	81.7	15.0	16.7	...	...
Johnson	393.5	293.3	79.5	20.7	...	...
Madison	31.4	1.7	26.1	3.6	...	...
Marion	17.6	14.9	...	2.7	...	...
Newton	120.1	46.8	20.2	35.1	...	...
Pope	431.2	315.2	82.9	33.1	...	...
Randolph	1.1	...	...	1.1	...	...
Searcy	58.5	31.1	20.5	6.9	...	...
Sharp	8.2	6.0	1.4	.8	...	...
Stone	174.6	30.5	113.4	30.7	...	...
Van Buren	173.1	94.6	51.5	27.0	...	...
Washington	25.8	8.9	15.9	1.0	...	...
White	44.2	1.0	14.2	7.4	21.6	...
All counties	2,325.8	1,309.9	702.4	291.9	21.6	...

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

County	All types	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood
--------	-----------	-------------------------	----------	-------------	-----------------	--------------------

----- Million board feet -----

Baxter	246.2	...	4.1	242.1	...	...
Benton	299.0	...	...	299.0	...	...
Boone	215.3	...	9.3	206.0	...	...
Carroll	156.3	...	20.3	136.0	...	...
Cleburne	131.2	6.1	31.3	81.3	12.5	...
Conway	146.2	16.4	11.1	65.4	53.3	...
Crawford	342.6	1.2	35.1	306.3	...	...
Faulkner	136.6	...	2.1	80.7	53.8	...
Franklin	362.1	...	11.8	350.3	...	...
Fulton	105.6	...	...	105.6	...	...
Independence	313.6	1.9	23.1	288.6	...	...
Izard	91.1	11.5	6.6	66.0	7.0	...
Johnson	525.0	13.9	24.0	487.1	...	...
Madison	470.3	4.6	9.7	456.0	...	...
Marion	134.6	3.4	...	131.2	...	...
Newton	629.9	8.1	19.4	572.1	...	30.3
Pope	637.4	24.5	47.3	527.4	38.2	...
Randolph	222.9	...	2.8	172.3	47.8	...
Searcy	284.9	2.8	7.3	274.8	...	...
Sharp	168.1	6.7	8.9	152.5	...	...
Stone	323.0	2.3	71.7	249.0	...	...
Van Buren	213.9	1.3	33.9	178.7	...	...
Washington	322.4	1.1	9.4	311.9	...	...
White	369.2	...	2.3	93.2	273.7	...
All counties	6,847.4	105.8	391.5	5,833.5	486.3	30.3

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 - - - - -					
Baxter	18.5	14.3	2.7	1.5	...
Benton	2.3	1.3	...	1.0	...
Boone	2.2	.6	1.4	.2	...
Carroll	9.7	1.2	.8	7.7	...
Cleburne	65.6	39.8	21.8	4.0	...
Conway	23.3	6.3	17.0	...	...
Crawford	34.0	24.5	7.7	1.8	...
Faulkner	7.3	...	5.7	1.6	...
Franklin	36.5	11.4	14.3	10.8	...
Fulton	23.8	...	21.8	2.0	...
Independence	26.3	4.6	8.8	12.9	...
Izard	43.1	21.6	19.3	2.2	...
Johnson	87.6	61.2	21.2	5.2	...
Madison	11.2	8.1	.7	2.4	...
Marion	7.6	2.8	4.5	.3	...
Newton	30.0	20.0	6.2	3.8	...
Pope	117.2	66.1	43.9	7.2	...
Randolph	.8	...	.8	...	...
Searcy	14.3	7.7	6.4	.2	...
Sharp	10.8	...	8.9	1.9	...
Stone	49.3	29.6	10.0	9.7	...
Van Buren	57.6	27.6	23.8	5.6	.6
Washington	8.8	4.6	2.6	1.6	...
White	14.8	4.1	6.8	3.9	...
All counties	702.6	357.4	257.1	87.5	.6

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 - - - - -					
Baxter	80.5	44.1	30.8	5.6	...
Benton	100.5	51.6	34.0	14.9	...
Boone	74.5	46.9	17.4	10.2	...
Carroll	59.9	21.2	28.4	10.3	...
Cleburne	75.3	14.0	46.7	14.6	...
Conway	57.6	18.0	36.3	3.3	...
Crawford	133.2	54.2	64.5	14.5	...
Faulkner	57.8	18.1	33.6	6.1	...
Franklin	149.5	69.9	70.8	8.8	...
Fulton	41.3	14.5	15.4	11.1	.3
Independence	103.3	58.5	28.3	16.5	...
Izard	40.2	13.5	18.6	8.1	...
Johnson	193.2	87.4	96.0	9.8	...
Madison	205.0	96.0	82.3	26.7	...
Marion	50.7	24.9	19.9	5.9	...
Newton	269.5	85.2	175.7	8.2	.4
Pope	247.8	90.6	141.2	16.0	...
Randolph	86.9	43.1	32.9	10.9	...
Searcy	118.0	34.0	60.9	23.1	...
Sharp	77.6	20.7	42.6	13.5	.8
Stone	152.4	43.6	83.2	25.6	...
Van Buren	134.6	13.4	103.4	17.8	...
Washington	149.9	56.4	73.6	19.9	...
White	120.7	78.1	29.8	12.8	...
All counties	2,779.9	1,097.9	1,366.3	314.2	1.5

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 - - - - -					
Baxter	44.5	37.2	5.3	2.0	...
Benton	10.3	7.2	...	3.1	...
Boone	3.3	1.3	2.0	...	...
Carroll	35.7	4.8	...	30.9	...
Cleburne	226.6	162.9	56.7	7.0	...
Conway	53.6	19.9	33.7	...	...
Crawford	127.3	120.0	6.0	1.3	...
Faulkner	19.4	...	14.7	4.7	...
Franklin	120.1	65.1	12.6	42.4	...
Fulton	35.5	...	26.1	9.4	...
Independence	74.8	16.1	14.6	44.1	...
Izard	113.4	75.3	32.7	5.4	...
Johnson	393.5	316.1	65.4	12.0	...
Madison	31.4	26.9	.8	3.7	...
Marion	17.6	6.1	9.9	1.6	...
Newton	102.1	77.9	18.8	5.4	...
Pope	431.2	305.3	112.1	13.8	...
Randolph	1.1	...	1.1	...	...
Searcy	58.5	33.9	24.6	...	...
Sharp	8.2	...	6.0	2.2	...
Stone	174.6	119.4	25.9	29.3	...
Van Buren	173.1	106.4	54.6	10.9	1.2
Washington	25.8	15.9	6.9	3.0	...
White	44.2	17.6	11.6	15.0	...
All counties	2,325.8	1,535.3	542.1	247.2	1.2

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 - - - - -					
Baxter	246.2	160.8	66.0	19.4	...
Benton	299.0	208.5	48.9	41.6	...
Boone	215.3	161.1	34.0	20.2	...
Carroll	156.3	83.2	48.5	24.6	...
Cleburne	131.2	37.9	65.2	28.1	...
Conway	146.2	66.9	74.7	4.6	...
Crawford	342.6	193.2	117.7	31.7	...
Faulkner	136.6	60.3	65.4	10.9	...
Franklin	362.1	233.8	113.2	15.1	...
Fulton	105.6	54.5	23.3	26.2	1.6
Independence	313.6	224.1	56.9	32.6	...
Izard	91.1	45.0	29.9	16.2	...
Johnson	525.0	339.1	163.0	22.9	...
Madison	470.3	297.4	119.0	53.9	...
Marion	134.6	98.1	31.7	4.8	...
Newton	629.9	304.6	307.6	17.7	...
Pope	637.4	321.3	294.6	21.5	...
Randolph	222.9	155.4	51.0	16.5	...
Searcy	284.9	128.1	102.8	54.0	...
Sharp	168.1	74.4	59.7	29.5	4.5
Stone	323.0	144.0	127.1	51.9	...
Van Buren	213.9	37.8	151.4	24.7	...
Washington	322.4	183.9	105.8	32.7	...
White	369.2	324.8	34.1	10.3	...
All counties	6,847.4	3,938.2	2,291.5	611.6	6.1

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 -----							
Baxter	99.0	16.8	37.1	1.7	43.4	...	...
Benton	102.8	1.3	6.5	1.0	94.0	...	...
Boone	76.7	.9	21.3	1.3	53.2	...	...
Carroll	69.6	8.8	14.5	.9	45.4	...	...
Cleburne	140.9	65.6	69.9	...	...	...	5.4
Conway	80.9	21.9	25.4	1.4	11.7	...	20.5
Crawford	167.2	28.0	21.3	6.0	111.9	...	...
Faulkner	65.1	6.5	12.4	.8	27.9	...	17.5
Franklin	186.0	36.5	55.7	...	93.8	...	...
Fulton	65.1	23.6	4.8	.2	36.5	...	...
Independence	129.6	26.1	33.7	.2	69.6	...	...
Izard	83.3	42.7	33.1	.4	5.2	...	1.9
Johnson	280.8	87.6	70.8	...	122.4	...	...
Madison	216.2	9.8	5.4	1.4	199.6	...	...
Marion	58.3	4.8	26.1	2.8	24.6	...	...
Newton	299.5	29.5	83.2	.5	186.3	...	...
Pope	365.0	117.2	167.5	...	71.9	...	8.4
Randolph	87.7	...	...	.8	72.7	...	14.2
Searcy	132.3	14.1	43.6	.2	74.4	...	...
Sharp	88.4	8.2	11.5	2.6	66.1	...	...
Stone	201.7	48.5	101.5	.8	50.9	...	...
Van Buren	192.2	57.6	118.4	...	16.2	...	...
Washington	158.7	4.8	4.9	4.0	145.0	...	...
White	135.5	9.4	28.0	1.0	26.4	4.4	66.3
All counties	3,482.5	670.2	996.6	28.0	1,649.1	4.4	134.2

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

County	All classes	Poletimber	Sawtimber		
			Total	Sawlog	Upper stem
- - - - - Million cubic feet - - - - -					
Baxter	18.5	7.4	11.1	8.5	2.6
Benton	2.3	.2	2.1	2.0	.1
Boone	2.2	1.5	.7	.7	...
Carroll	9.7	3.8	5.9	5.5	.4
Cleburne	65.6	16.9	48.7	43.1	5.6
Conway	23.3	11.9	11.4	10.2	1.2
Crawford	34.0	9.6	24.4	23.0	1.4
Faulkner	7.3	3.1	4.2	3.5	.7
Franklin	36.5	14.1	22.4	21.0	1.4
Fulton	23.8	14.7	9.1	7.2	1.9
Independence	26.3	9.5	16.8	14.6	2.2
Izard	43.1	16.9	26.2	22.0	4.2
Johnson	87.6	18.6	69.0	66.5	2.5
Madison	11.2	3.9	7.3	6.1	1.2
Marion	7.6	3.2	4.4	3.8	.6
Newton	30.0	9.0	21.0	18.8	2.2
Pope	117.2	32.8	84.4	76.2	8.2
Randolph	.8	.5	.3	.2	.1
Searcy	14.3	2.5	11.8	10.0	1.8
Sharp	10.8	8.5	2.3	1.7	.6
Stone	49.3	12.8	36.5	31.4	5.1
Van Buren	57.6	20.4	37.2	32.6	4.6
Washington	8.8	3.0	5.8	5.1	.7
White	14.8	5.5	9.3	8.0	1.3
All counties	702.6	230.3	472.3	421.7	50.6

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 - - - - -					
Baxter	80.5	30.6	49.9	41.5	8.4
Benton	100.5	40.1	60.4	51.0	9.4
Boone	74.5	28.0	46.5	36.3	10.2
Carroll	59.9	27.4	32.5	27.2	5.3
Cleburne	75.3	47.7	27.6	23.4	4.2
Conway	57.6	28.7	28.9	25.2	3.7
Crawford	133.2	62.0	71.2	57.5	13.7
Faulkner	57.8	29.7	28.1	23.0	5.1
Franklin	149.5	75.4	74.1	61.0	13.1
Fulton	41.3	20.0	21.3	18.3	3.0
Independence	103.3	36.0	67.3	54.2	13.1
Izard	40.2	21.3	18.9	16.4	2.5
Johnson	193.2	94.5	98.7	86.1	12.6
Madison	205.0	100.9	104.1	82.8	21.3
Marion	50.7	22.4	28.3	23.6	4.7
Newton	269.5	138.8	130.7	106.2	24.5
Pope	247.8	125.0	122.8	104.0	18.8
Randolph	86.9	37.6	49.3	38.7	10.6
Searcy	118.0	58.2	59.8	47.4	12.4
Sharp	77.6	42.3	35.3	29.3	6.0
Stone	152.4	80.5	71.9	55.2	16.7
Van Buren	134.6	88.3	46.3	37.8	8.5
Washington	149.9	82.8	67.1	55.6	11.5
White	120.7	44.5	76.2	62.9	13.3
All counties	2,779.9	1,362.7	1,417.2	1,164.6	252.6

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 - - - - -							
Baxter	122.9	18.5	80.5	...	17.4	...	6.5
Benton	133.3	2.3	100.5	...	23.3	...	7.2
Boone	91.8	2.2	74.5	...	12.4	...	2.7
Carroll	87.6	9.7	59.9	.3	13.0	...	4.7
Cleburne	159.6	65.6	75.3	1.9	14.4	.2	2.2
Conway	95.9	23.3	57.6	3.1	9.3	...	2.6
Crawford	208.6	34.0	133.2	1.9	30.8	...	8.7
Faulkner	87.1	7.3	57.8	.6	17.4	.1	3.9
Franklin	220.1	36.5	149.5	.3	27.5	...	6.3
Fulton	86.0	23.8	41.3	.5	13.8	...	6.6
Independence	161.7	26.3	103.3	1.6	21.1	...	9.4
Izard	105.1	43.1	40.2	1.6	16.6	...	3.6
Johnson	309.1	87.6	193.2	.7	17.9	.1	9.6
Madison	264.0	11.2	205.0	.8	30.0	...	17.0
Marion	75.1	7.6	50.7	.1	9.3	.4	7.0
Newton	357.4	30.0	269.5	1.4	31.9	...	24.6
Pope	407.8	117.2	247.8	1.1	29.6	...	12.1
Randolph	108.6	.8	86.9	.2	14.7	...	6.0
Searcy	170.5	14.3	118.0	...	27.0	...	11.2
Sharp	118.1	10.8	77.6	.6	23.1	.1	5.9
Stone	239.5	49.3	152.4	2.9	25.3	.1	9.5
Van Buren	226.9	57.6	134.6	2.4	20.3	.3	11.7
Washington	199.9	8.8	149.9	.5	35.0	.1	5.6
White	163.7	14.8	120.7	1.5	17.7	.3	8.7
All counties	4,200.3	702.6	2,779.9	24.0	498.8	1.7	193.3

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 feet -----											
Softwood:											
Shortleaf pine	77,256	29,514	21,600	12,491	7,818	3,504	1,521	649	118	41	...
Loblolly pine	2,285	504	1,354	393	...	...	...	...	34	...	...
Redcedar	22,843	14,707	5,452	1,508	872	222	66	...	16	...	...
Cypress	175	...	51	...	32	21	15	39	11	5	1
Total	102,559	44,725	28,457	14,392	8,722	3,747	1,602	688	179	46	1
Hardwood:											
Select white oaks ²	94,535	42,179	25,867	13,044	6,533	3,459	1,886	1,034	252	278	3
Select red oaks ³	35,063	11,720	8,635	6,156	3,655	2,263	1,214	629	445	336	10
Other white oaks	59,047	28,110	15,646	7,748	3,383	2,183	733	602	306	328	8
Other red oaks	70,302	24,474	18,096	10,449	7,596	4,141	2,614	1,507	742	664	19
Water hickory	347	158	74	...	34	41	17	...	10	9	4
Other hickories	77,276	40,408	19,992	9,030	4,088	2,408	868	331	98	45	8
Persimmon	760	406	254	71	29	...	...	...	...	...	...
Hard maple	4,862	2,709	1,177	588	204	115	58	11	...	...	...
Soft maple	2,983	1,596	531	661	74	66	32	13	10	...	...
Boxelder	251	175	...	68	...	...	...	...	...	8	...
Beech	626	224	61	159	...	58	43	48	10	23	...
Sweetgum	13,581	4,890	3,218	2,391	1,212	885	423	265	186	95	16
Blackgum	10,997	4,983	2,555	1,219	718	632	527	138	95	130	...
Other gums	665	113	127	246	80	18	17	...	11	46	7
White ash	4,349	1,663	1,427	557	355	210	95	13	19	7	3
Other ashes	1,044	290	78	177	175	77	77	78	33	59	...
Sycamore	1,913	494	555	207	303	122	110	47	31	36	8
Cottonwood	172	108	...	...	...	...	37	...	...	17	10
Basswood	366	90	...	107	...	88	31	44	...	6	...
Magnolia	297	89	49	83	24	...	29	23	...	...	...
Willow	106	106	...	...	...	...	...	...	...	...	...
Black walnut	2,288	862	794	248	145	139	71	23	...	6	...
Black cherry	1,475	619	435	243	117	28	14	...	19	...	...
American elm	2,439	1,376	383	200	181	191	61	29	...	18	...
Other elms	9,150	5,784	1,975	934	285	100	17	...	46	9	...
River birch	429	277	...	40	...	...	66	35	11	...	...
Hackberry	1,414	278	534	311	144	95	18	27	...	7	...
Black locust	1,548	777	587	120	50	...	14	...	...	...	...
Other locusts	750	519	...	101	88	42	...	...	...	...	...
Sassafras	347	268	79	...	...	...	...	...	...	...	...
Dogwood	1,710	1,360	309	41	...	...	...	...	...	...	...
Other hardwoods	356	120	184	40	...	...	12	...	...	...	...
Total	401,448	177,225	103,622	55,239	29,473	17,361	9,084	4,897	2,324	2,127	96
All species	504,007	221,950	132,079	69,631	38,195	21,108	10,686	5,585	2,503	2,173	97

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 classes, 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	608.6	62.8	110.8	128.8	126.0	86.3	55.4	29.4	6.6	2.5	...
Loblolly pine	15.2	1.6	7.9	3.7	...	...	...	...	2.0	...	...
Redcedar	74.4	26.6	20.3	11.7	10.5	3.4	1.2	...	.7	...	...
Cypress	4.4	...	.3	...	.4	.4	.4	1.7	.3	.6	.3
Total	702.6	91.0	139.3	144.2	136.9	90.1	57.0	31.1	9.6	3.1	.3
Hardwood:											
Select white oaks	648.2	105.7	141.7	124.4	97.5	68.4	51.4	34.5	9.4	14.5	.7
Select red oaks	340.4	29.9	48.2	57.0	55.5	48.2	35.0	23.3	21.3	20.7	1.3
Other white oaks	314.3	56.2	68.4	57.9	39.2	34.6	15.5	16.3	10.7	14.6	.9
Other red oaks	597.8	51.5	83.2	87.8	105.0	79.0	68.4	49.7	29.5	41.7	2.0
Water hickory	4.1	.3	.3	...	.5	.9	.6	...	.3	.5	.7
Other hickories	389.1	73.2	87.0	76.0	56.7	49.7	22.2	14.0	5.6	3.3	1.4
Persimmon	3.2	.7	1.3	.8	.4	...	...	...	...	...	...
Hard maple	26.7	6.5	6.8	5.7	2.8	2.8	1.5	.6	...	...	...
Soft maple	15.7	3.4	2.5	5.6	1.2	1.4	.6	.4	.6	...	...
Boxelder	1.7	.5	...	.7	...	...	...	...	...	.5	...
Beech	9.5	.5	.3	1.7	...	1.4	1.3	1.9	.6	1.8	...
Sweetgum	141.4	9.2	16.8	23.3	21.2	22.5	16.3	11.1	11.7	7.6	1.7
Blackgum	88.0	8.6	11.9	10.5	9.8	13.9	14.8	5.2	4.6	8.7	...
Other gums	7.0	.2	.5	1.8	.9	.3	.3	...	.4	2.1	.5
White ash	28.7	2.8	7.3	5.5	4.6	3.2	3.2	.5	.9	.3	.4
Other ashes	16.8	.7	.6	1.5	2.5	2.1	2.2	2.8	1.4	3.0	...
Sycamore	23.3	1.1	3.4	1.9	5.0	2.6	3.3	1.5	1.2	2.5	.8
Cottonwood	3.6	.1	...	...	...	...	1.0	...	...	1.4	1.1
Basswood	8.3	.3	...	1.4	...	2.2	1.1	2.4	...	.9	...
Magnolia	4.0	.4	.3	.7	.4	...	1.2	1.0	...	...	...
Willow	.2	.2	...	...	...	...	...	...	...	...	...
Black walnut	13.5	1.4	3.4	1.8	2.0	2.4	1.4	.7	...	.4	...
Black cherry	9.3	1.9	2.0	2.3	1.5	.7	.4	...	.5	...	...
American elm	16.6	3.3	1.7	1.4	1.9	3.8	1.9	1.0	...	1.6	...
Other elms	36.2	10.4	8.8	8.1	3.5	1.9	.7	...	2.0	.8	...
River birch	4.5	.7	...	.3	...	...	1.8	1.2	.5	...	...
Hackberry	11.2	.4	2.8	2.5	1.8	1.8	.6	.9	...	.4	...
Black locust	7.0	1.8	3.2	1.0	.7	...	.3	...	...	...	...
Other locusts	4.5	1.4	...	.7	1.5	.9	...	...	...	...	...
Sassafras	1.0	.7	.3	...	...	...	...	...	...	...	...
Dogwood	2.3	1.6	.5	.2	...	...	...	...	...	...	...
Other hardwoods	1.8	.3	.7	.4	...	...	.4	...	...	...	...
Total	2,779.9	375.9	503.9	482.9	416.1	344.7	247.4	169.0	101.2	127.3	11.5
All species	3,482.5	466.9	643.2	627.1	553.0	434.8	304.4	200.1	110.8	130.4	11.8

¹Detailed county statistics available upon request.

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

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:									
Shortleaf pine	2,170.3	540.0	623.3	469.8	316.7	170.7	37.4	12.4	...
Loblolly pine	23.4	12.6	...	...	...	...	10.8	...	...
Redcedar	110.5	42.3	44.0	15.4	5.3	...	3.5	...	...
Cypress	21.6	...	1.3	1.6	1.8	8.6	1.5	3.1	3.7
Total	<u>2,325.8</u>	<u>594.9</u>	<u>668.6</u>	<u>486.8</u>	<u>323.8</u>	<u>179.3</u>	<u>53.2</u>	<u>15.5</u>	<u>3.7</u>
Hardwood:									
Select white oaks	1,308.6	...	413.1	312.4	256.8	188.2	54.0	80.2	3.9
Select red oaks	1,022.5	...	236.3	234.5	185.5	123.5	119.0	116.4	7.3
Other white oaks	640.4	...	165.5	169.7	76.9	84.7	56.9	80.8	5.9
Other red oaks	1,799.9	...	423.2	378.2	348.2	261.7	156.9	220.9	10.8
Water hickory	17.7	...	1.4	3.1	3.2	...	2.2	2.7	5.1
Other hickories	738.6	...	242.4	243.0	117.3	79.5	31.4	18.0	7.0
Persimmon	1.6	...	1.6	...	...	...	...	...	...
Hard maple	31.9	...	9.8	12.0	6.9	3.2	...	...	...
Soft maple	19.9	...	6.1	5.8	3.2	1.9	2.9	...	...
Boxelder	2.3	...	...	...	...	...	...	2.3	...
Beech	38.9	...	...	6.6	7.6	10.9	2.8	11.0	...
Sweetgum	457.5	...	76.9	107.9	88.9	58.5	72.1	41.9	11.3
Blackgum	289.2	...	36.9	64.7	77.8	30.0	24.6	55.2	...
Other gums	18.6	...	2.8	.9	.8	...	1.6	10.0	2.5
White ash	59.5	...	18.3	13.4	17.0	2.7	4.5	1.0	2.6
Other ashes	65.0	...	8.3	8.8	10.4	15.0	7.3	15.2	...
Sycamore	77.7	...	19.1	10.9	14.9	7.8	5.0	15.4	4.6
Cottonwood	17.7	...	...	...	4.7	...	...	7.6	5.4
Basswood	37.1	...	...	10.2	7.0	13.2	...	6.7	...
Magnolia	14.0	...	1.6	...	6.8	5.6	...	...	...
Black walnut	27.6	...	6.3	9.1	6.7	3.9	...	1.6	...
Black cherry	14.6	...	5.6	3.6	2.4	...	3.0	...	...
American elm	46.6	...	7.4	17.1	7.1	5.4	...	9.6	...
Other elms	44.0	...	15.1	8.9	3.0	...	12.4	4.6	...
River birch	16.1	...	...	...	8.7	5.5	1.9	...	...
Hackberry	23.8	...	7.7	8.0	2.5	4.0	...	1.6	...
Black locust	3.8	...	2.5	...	1.3	...	...	...	...
Other locusts	10.2	...	5.5	4.7	...	...	...	...	...
Other hardwoods	2.1	...	...	...	2.1	...	...	...	...
Total	<u>6,847.4</u>	<u>...</u>	<u>1,713.4</u>	<u>1,633.5</u>	<u>1,267.7</u>	<u>905.2</u>	<u>558.5</u>	<u>702.7</u>	<u>66.4</u>
All species	9,173.2	594.9	2,382.0	2,120.3	1,591.5	1,084.5	611.7	718.2	70.1

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	Diameter class (inches at breast height)									
	All classes	9.0-	11.0-	13.0-	15.0-	17.0-	19.0-	21.0-	23.0 and larger	
Softwood:										
Shorleaf pine	390.2	106.8	113.4	81.4	52.9	27.7	6.0	2.0	...	...
Loblolly pine	4.7	2.7	...	...	...	...	2.0	...	...	...
Redcedar	23.1	9.3	9.0	3.0	1.1	...	.7	...	...	...
Cypress	3.7	...	.3	.3	.4	1.6	.3	.6	...	.2
Total	421.7	118.8	122.7	84.7	54.4	29.3	9.0	2.6	...	.2
Hardwood:										
Select white oaks	223.8	77.5	54.2	42.1	29.4	8.2	11.9	...	.5	...
Select red oaks	171.6	43.5	40.5	30.3	20.0	18.1	17.9	...	1.3	...
Other white oaks	111.0	32.1	29.6	13.2	13.8	8.8	12.6	...	.9	...
Other red oaks	305.5	81.5	66.4	57.7	40.9	24.9	32.4	...	1.7	...
Water hickory	2.7	...	.5	.5	...	...	.4	...	...	...
Other hickories	124.8	44.1	41.5	18.7	11.9	4.8	2.6	...	1.2	...
Persimmon	.3	...	.3	...	...	...	...	...	...	...
Hard maple	5.7	1.9	2.1	1.2	.5	...	...	...	...	...
Soft maple	3.5	1.1	1.1	.5	.3	...	...	...	...	...
Boxelder	.3	...	...	...	...	...	...	...	...	...
Beech	6.1	...	1.1	1.2	1.7	...	1.7	...	...	...
Sweetgum	77.0	15.1	18.9	14.6	9.6	10.7	6.5	...	1.6	...
Blackgum	48.3	7.1	11.9	12.7	4.7	...	8.0	...	...	...
Other gums	3.8	.6	.2	.2	...	...	2.0	...	.5	...
White ash	10.5	3.5	2.6	2.7	.4	...	.2	...	...	...
Other ashes	11.7	1.8	1.6	1.9	2.4	1.4	2.6	...	...	...
Sycamore	14.0	3.6	2.0	2.9	1.3	1.1	2.3	...	.8	...
Cottonwood	3.1	...	...	.8	...	...	1.3	...	...	...
Basswood	6.1	...	1.9	1.1	...	...	...	...	...	...
Magnolia	2.2	.3	...	1.1	.8	...	...	...	...	...
Willow	...	...	...	...	...	...	...	...	...	...
Black walnut	5.3	1.3	1.8	1.3	.6	...	...	...	...	...
Black cherry	2.3	.9	.6	.3	...	.5	...	...	...	...
American elm	8.0	1.7	2.9	1.2	.8	...	1.4	...	...	...
Other elms	7.2	2.7	1.5	.4	...	1.9	...	...	...	...
River birch	2.6	...	...	1.4	.9	.3	...	...	...	...
Hackberry	4.3	1.4	1.6	.4	.6	...	.3	...	...	...
Black locust	.7	.5	...	.2	...	...	...	...	...	...
Other locusts	1.9	1.0	.9	...	...	...	...	...	...	...
Sassafras	...	...	...	...	...	...	...	...	...	...
Dogwood	...	...	...	...	...	...	...	...	...	...
Other hardwoods	.3	...	...	...	.3	...	...	...	...	...
Total	1,164.6	323.8	285.4	208.9	142.8	86.8	106.3	10.6	...	10.6
All species	1,586.3	118.8	446.5	370.1	263.3	172.1	95.8	108.9	10.8	10.8

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	608.6	173.6	435.0	390.2	44.8
Loblolly pine	15.2	9.5	5.7	4.7	1.0
Redcedar	74.4	46.9	27.5	23.1	4.4
Cypress	4.4	.3	4.1	3.7	.4
Total	<u>702.6</u>	<u>230.3</u>	<u>472.3</u>	<u>421.7</u>	<u>50.6</u>
Hardwood					
Select white oaks	648.2	371.8	276.4	223.8	52.6
Select red oaks	340.4	135.1	205.3	171.6	33.7
Other white oaks	314.3	182.5	131.8	111.0	20.8
Other red oaks	597.8	222.5	375.3	305.5	69.8
Water hickory	4.1	.6	3.5	2.7	.8
Other hickories	389.1	236.2	152.9	124.8	28.1
Persimmon	3.2	2.8	.4	.3	.1
Hard maple	26.7	19.0	7.7	5.7	2.0
Soft maple	15.7	11.5	4.2	3.5	.7
Boxelder	1.7	1.2	.5	.3	.2
Beech	9.5	2.5	7.0	6.1	.9
Sweetgum	141.4	49.3	92.1	77.0	15.1
Blackgum	88.0	31.0	57.0	48.3	8.7
Other gums	7.0	2.5	4.5	3.8	.7
White ash	28.7	15.6	13.1	10.5	2.6
Other ashes	16.8	2.8	14.0	11.7	2.3
Sycamore	23.3	6.4	16.9	14.0	2.9
Cottonwood	3.6	.1	3.5	3.1	.4
Basswood	8.3	1.7	6.6	6.1	.5
Magnolia	4.0	1.4	2.6	2.2	.4
Willow	.2	.2	...	...	...
Black walnut	13.5	6.6	6.9	5.3	1.6
Black cherry	9.3	6.2	3.1	2.3	.8
American elm	16.6	6.4	10.2	8.0	2.2
Other elms	36.2	27.3	8.9	7.2	1.7
River birch	4.5	1.0	3.5	2.6	.9
Hackberry	11.2	5.7	5.5	4.3	1.2
Black locust	7.0	6.0	1.0	.7	.3
Other locusts	4.5	2.1	2.4	1.9	.5
Sassafras	1.0	1.0	...	...	...
Dogwood	2.3	2.3	...	...	...
Other hardwoods	<u>1.8</u>	<u>1.4</u>	<u>.4</u>	<u>.3</u>	<u>.1</u>
Total	<u>2,779.9</u>	<u>1,362.7</u>	<u>1,417.2</u>	<u>1,164.6</u>	<u>252.6</u>
All species	3,482.5	1,593.0	1,889.5	1,586.3	303.2

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	619.6	608.6	10.5	.5
Loblolly pine	15.4	15.2	.2	...
Redcedar	88.0	74.4	12.4	1.2
Cypress	5.3	4.4	.9	...
Total	<u>728.3</u>	<u>702.6</u>	<u>24.0</u>	<u>1.7</u>
Hardwood:				
Select white oaks	754.2	648.2	84.3	21.7
Select red oaks	396.5	340.4	33.8	22.3
Other white oaks	414.7	314.3	75.0	25.4
Other red oaks	699.4	597.8	64.5	37.1
Water hickory	5.0	4.1	.5	.4
Other hickories	466.9	389.1	59.3	18.5
Persimmon	6.4	3.2	3.1	.1
Hard maple	38.8	26.7	9.2	2.9
Soft maple	30.8	15.7	10.9	4.2
Boxelder	4.2	1.7	1.7	.8
Beech	19.8	9.5	3.6	6.7
Sweetgum	163.6	141.4	13.5	8.7
Blackgum	126.5	88.0	12.9	25.6
Other gums	7.9	7.0	.9	...
White ash	40.8	28.7	9.5	2.6
Other ashes	22.4	16.8	2.9	2.7
Sycamore	27.1	23.3	2.7	1.1
Cottonwood	3.6	3.6	...	...
Basswood	9.6	8.3	.8	.5
Magnolia	4.2	4.0	.2	...
Willow	.4	.2	.2	...
Black walnut	19.3	13.5	3.2	2.6
Black cherry	13.4	9.3	3.3	.8
American elm	24.0	16.6	6.0	1.4
Other elms	48.0	36.2	10.6	1.2
River birch	6.2	4.5	1.2	.5
Hackberry	15.2	11.2	3.2	.8
Black locust	15.2	7.0	4.9	3.3
Other locusts	6.4	4.5	1.9	...
Sasafras	1.8	1.0	.4	.4
Dogwood	4.3	2.3	1.2	.8
Other commercial	3.2	1.8	1.2	.2
Noncommercial	<u>72.2</u>	<u>...</u>	<u>72.2</u>	<u>...</u>
Total	<u>3,472.0</u>	<u>2,779.9</u>	<u>498.8</u>	<u>193.3</u>
All species	4,200.3	3,482.5	522.8	195.0

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 - - - - -			- - - - - Board feet - - - - -		
National forest	1,072	224	848	3,317	1,031	2,286
Other public	816	119	697	2,802	357	2,445
Forest industry	380	176	204	868	562	306
Farmer	544	101	443	1,313	269	1,044
Misc. private	<u>592</u>	<u>119</u>	<u>473</u>	<u>1,412</u>	<u>326</u>	<u>1,086</u>
All ownerships	669	135	534	1,763	447	1,316

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 - - - - -			- - - - - Board feet - - - - -		
Loblolly-shortleaf pine	1,023	902	121	3,265	3,021	244
Oak-pine	638	332	306	1,735	1,114	621
Oak-hickory	623	24	599	1,532	73	1,459
Oak-gum-cypress	1,019	32	987	3,735	159	3,576
Elm-ash-cottonwood	<u>1,018</u>	<u>...</u>	<u>1,018</u>	<u>5,411</u>	<u>...</u>	<u>5,411</u>
All types	669	135	534	1,763	447	1,316

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 - - - - -						
Baxter	66.9	19.9	8.7	...	14.4	23.9
Benton	71.2	2.7	1.4	...	15.7	51.4
Boone	54.4	...	2.2	...	39.2	13.0
Carroll	55.2	...	1.2	1.9	23.0	29.1
Cleburne	86.7	...	1.3	10.3	10.4	64.7
Conway	48.6	2.8	...	6.1	6.1	33.6
Crawford	86.6	33.2	.1	...	...	53.3
Faulkner	58.3	...	4.8	...	1.9	51.6
Franklin	82.6	39.7	.2	...	22.2	20.5
Fulton	69.4	...	.6	...	27.6	41.2
Independence	90.3	...	.9	2.5	55.7	31.2
Izard	64.5	...	...	...	20.2	44.3
Johnson	111.5	68.9	(¹)	...	6.5	36.1
Madison	136.0	19.0	5.2	...	52.6	59.2
Marion	50.1	...	7.6	...	19.3	23.2
Newton	154.1	72.8	5.0	...	32.0	44.3
Pope	148.0	73.0	2.1	...	16.9	56.0
Randolph	59.5	...	3.0	...	25.7	30.8
Searcy	89.0	11.7	2.3	...	20.2	54.8
Sharp	89.8	...	...	...	29.4	60.4
Stone	122.4	22.5	.4	6.6	19.8	73.1
Van Buren	126.7	12.7	4.8	19.6	52.9	36.7
Washington	103.2	8.4	.6	2.1	33.3	58.8
White	81.2	...	6.5	...	7.2	67.5
All counties	2,106.2	387.3	58.9	49.1	552.2	1,058.7

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 - - - - -								
Baxter	2,803	523	421	102	2,280	1,852	110	318
Benton	2,911	65	42	23	2,846	2,393	45	408
Boone	2,172	62	20	42	2,110	1,736	6	368
Carroll	1,971	275	255	20	1,696	1,384	6	306
Cleburne	3,990	1,858	1,767	91	2,132	1,192	337	603
Conway	2,291	660	516	144	1,631	631	433	567
Crawford	4,735	963	674	289	3,772	2,398	442	932
Faulkner	1,843	207	136	71	1,636	965	207	464
Franklin	5,267	1,034	935	99	4,233	2,549	676	1,008
Fulton	1,843	674	663	11	1,169	880	40	249
Independence	3,670	745	697	48	2,925	2,008	220	697
Izard	2,359	1,220	1,149	71	1,139	736	85	318
Johnson	7,951	2,480	2,355	125	5,471	3,738	745	988
Madison	6,122	317	272	45	5,805	3,812	317	1,676
Marion	1,651	215	105	110	1,436	1,173	48	215
Newton	8,481	850	745	105	7,631	5,301	479	1,851
Pope	10,336	3,319	3,203	116	7,017	5,032	912	1,073
Randolph	2,483	23	...	23	2,460	1,622	88	750
Searcy	3,746	405	399	6	3,341	2,200	204	937
Sharp	2,503	306	204	102	2,197	1,770	20	407
Stone	5,712	1,396	1,263	133	4,316	3,152	266	898
Van Buren	5,443	1,631	1,453	178	3,812	2,699	283	830
Washington	4,494	249	136	113	4,245	2,863	130	1,252
White	3,837	419	255	164	3,418	1,736	595	1,087
All counties	98,614	19,896	17,665	2,231	78,718	53,822	6,694	18,202

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	75	16	59
Other public	57	8	49
Forest industry	26	12	14
Farmer	38	7	31
Misc. private	<u>41</u>	<u>8</u>	<u>33</u>
All ownerships	46	9	37

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