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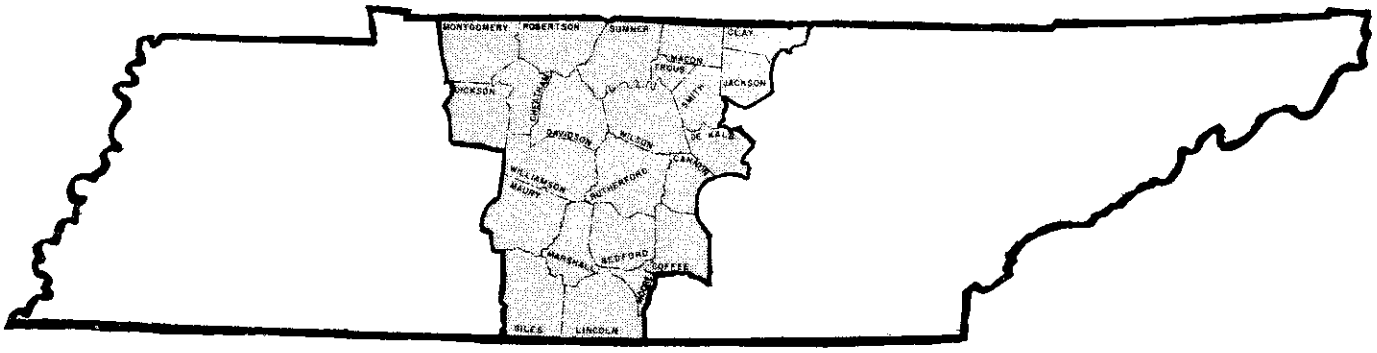
Forest Statistics for



Central Tennessee Counties

Staff: Renewable Resources
Evaluation Research Work Unit

Southern Forest Experiment Station

FOREST STATISTICS FOR CENTRAL TENNESSEE COUNTIES

Staff: Renewable Resources Evaluation Research Work Unit

These tables were derived from data obtained during a 1980 inventory of 23 counties comprising the Central Unit of Tennessee (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 1971 inventory are not valid. In table 3, changes between the two surveys are summarized in terms of current measurement standards.

Table 1.--*Sampling errors*[1] *for forest land and timber volume, 1980*

County	Commercial forest land	Growing stock	Sawtimber
	Percent		
Bedford	4	31	36
Cannon	4	21	30
Cheatham	2	14	21
Clay	4	14	24
Coffee	2	10	14
Davidson	3	25	32
DeKalb	3	12	23
Dickson	2	14	21
Giles	3	12	24
Jackson	4	15	25
Lincoln	2	17	28
Macon	2	17	23
Marshall	3	26	40
Maury	2	17	31
Montgomery	3	15	21
Moore	4	27	45
Robertson	3	17	24
Rutherford	3	25	34
Smith	3	24	48
Sumner	2	24	28
Trousdale	3	24	44
Williamson	3	10	16
Wilson	2	20	28
All counties	0.6	3.7	5.8

[1] By random-sampling formula.

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.

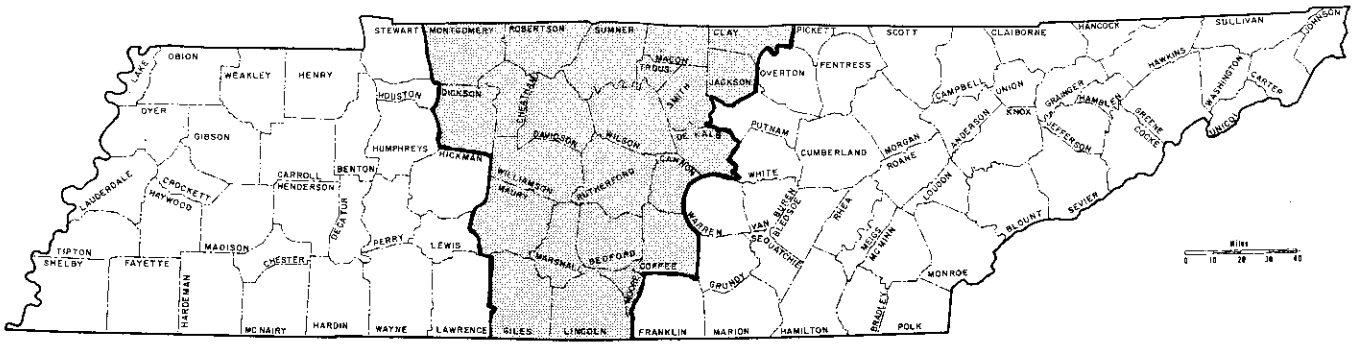


Figure 1.--The Central forest survey region of Tennessee.

Table 2.--*Sampling errors for timber volume by species, 1980*

Species	Growing stock	Sawtimber
	Percent	
Softwood:		
Shortleaf pine	(1)	(1)
Loblolly pine	(1)	(1)
Virginia pine	(1)	(1)
White pine	(1)	-
Redcedar	14	25
Total	12.8	22.8
Hardwood:		
Select white oaks	10	13
Select red oaks	13	13
Other red oaks	14	18
Other white oaks	10	12
Other hickories	8	10
Persimmon	22	41
Hard maple	14	22
Soft maple	25	36
Box elder	34	50
Beech	23	26
Sweetgum	26	28
Blackgum	18	33
White ash	13	19
Other ashes	23	31
Sycamore	32	37
Basswood	29	30
Yellow-poplar	12	15
Magnolia	(1)	-
Willow	(1)	-
Black Walnut	17	31
Black Cherry	22	30
American elm	16	25
Other elms	15	27
River birch	(1)	(1)
Hackberry	18	24
Black locust	21	35
Other locusts	28	(1)
Sassafras	22	36
Dogwood	32	-
Holly	(1)	-
Other commercial	34	(1)
Total	3.9	5.9
All species	3.7	5.8

1 Exceeds 50 percent.

Table 3.--*Change*[1] *in forest resource since, 1971*

Item	Change
	Percent
Commercial forest land	- 6
Growing-stock volume:	
Softwood	+ 35
Hardwood	+ 16
All species	+ 17
Sawtimber volume:	
Softwood	+ 115
Hardwood	+ 21
All species	+ 27

1 Based on current measurement standards

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 were 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.)

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 sawlog 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 4.--*Total area, commercial forest land, and proportion of total area, 1980*

	Total[1] area	Commercial forest Area	Commercial forest Proportion
	Thousand acres		*Percent*
Bedford	308.3	75.6	25
Cannon	173.4	84.0	48
Cheatham	195.0	104.0	53
Clay	148.8	97.5	66
Coffee	277.8	112.0	40
Davidson	325.1	98.0	30
DeKalb	178.0	74.0	42
Dickson	310.5	151.2	49
Giles	396.0	121.8	31
Jackson	206.5	112.2	54
Lincoln	371.2	105.0	28
Macon	194.6	59.4	31
Marshall	241.3	75.6	31
Maury	392.9	110.0	28
Montgomery	344.9	103.4	30
Moore	79.4	28.0	35
Robertson	304.6	51.2	17
Rutherford	391.7	156.0	40
Smith	206.5	75.9	37
Sumner	341.8	73.5	22
Trousdale	72.9	24.4	33
Williamson	379.5	126.0	33
Wilson	362.9	120.7	33
All counties	6,203.6	2,139.4	34

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

Table 5.--*Commercial forest land by ownership class, 1980*

County	All ownerships	National Forest	Other public	Forest industry	Farmer	Misc. private
	Thousand acres					
Bedford	75.6	-	-	5.4	37.8	32.4
Cannon	84.0	-	-	-	54.0	30.0
Cheatham	104.0	-	20.8	-	20.8	62.4
Clay	97.5	-	10.3	-	52.5	34.7
Coffee	112.0	-	21.3	-	44.8	45.9
Davidson	98.0	-	5.1	-	34.3	58.6
DeKalb	74.0	-	17.5	-	29.6	26.9
Dickson	151.2	-	.1	5.6	78.4	67.1
Giles	121.8	-	.1	4.2	75.6	41.9
Jackson	112.2	-	3.0		56.1	53.1
Lincoln	105.0	-	.6	-	60.0	44.4
Macon	59.4	-	-	-	39.6	19.8
Marshall	75.6	-	.1	-	50.4	25.1
Maury	110.0	-	(1)	-	60.5	49.5
Montgomery	103.4	-	13.6	-	47.0	42.8
Moore	28.0	-	-	-	16.0	12.0
Robertson	51.2	-	.2	-	32.0	19.0
Rutherford	156.0	-	4.5	-	39.0	112.5
Smith	75.9	-	1.8	-	48.3	25.8
Sumner	73.5	-	1.3	-	44.1	28.1
Trousdale	24.4	-	.3	-	18.3	5.8
Williamson	126.0	-	.5	-	72.0	53.5
Wilson	120.7	-	1.3	-	78.1	41.3
All counties	2,139.4	-	102.4	15.2	1,089.2	932.6

[1] Negligible

Table 6.--*Commercial forest land by forest type, 1980*

County	All types	Cedar	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood
	Thousand acres					
Bedford	75.6	21.6	5.4	43.2	5.4	-
Cannon	84.0	-	6.0	78.0	-	-
Cheatham	104.0	-	-	104.0	-	-
Clay	97.5	-	7.5	75.0	-	15.0
Coffee	112.0	-	-	100.8	11.2	-
Davidson	98.0	-	14.7	83.3	-	-
DeKalb	74.0	7.4	11.1	51.8	3.7	-
Dickson	151.2	-	-	145.6	-	5.6
Giles	121.8	-	8.4	105.0	4.2	4.2
Jackson	112.2	-	20.4	91.8	-	-
Lincoln	105.0	10.0	25.0	60.0	5.0	5.0
Macon	59.4	-	-	59.4	-	-
Marshall	75.6	12.6	12.6	50.4	-	-
Maury	110.0	5.5	5.5	99.0	-	-
Montgomery	103.4	-	14.1	84.6	4.7	-
Moore	28.0	-	4.0	24.0	-	-
Robertson	51.2	-	-	51.2	-	-
Rutherford	156.0	52.0	45.5	58.5	-	-
Smith	75.9	6.9	-	69.0	-	-
Sumner	73.5	4.9	4.9	63.7	-	-
Trousdale	24.4	-	12.2	12.2	-	-
Williamson	126.0	13.5	9.0	99.0	4.5	-
Wilson	120.7	28.4	42.6	49.7	-	-
All counties	2,139.4	162.8	248.9	1,659.2	38.7	29.8

Table 7.--*Commercial forest land by stand-size class, 1980*

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
	Thousand acres				
Bedford	75.6	16.2	16.2	43.2	-
Cannon	84.0	18.0	36.0	24.0	6.0
Cheatham	104.0	46.8	31.2	26.0	-
Clay	97.5	15.0	75.0	7.5	-
Coffee	112.0	67.2	28.0	16.8	-
Davidson	98.0	29.4	39.2	24.5	4.9
DeKalb	74.0	33.3	33.3	7.4	-
Dickson	151.2	39.2	78.4	33.6	-
Giles	121.8	37.8	46.2	37.8	-
Jackson	112.2	40.8	40.8	30.6	
Lincoln	105.0	15.0	55.0	35.0	-
Macon	59.4	26.4	19.8	13.2	-
Marshall	75.6	21.0	21.0	29.4	4.2
Maury	110.0	22.0	55.0	33.0	-
Montgomery	103.4	9.4	61.1	32.9	-
Moore	28.0	12.0	16.0	-	-
Robertson	51.2	32.0	12.8	6.4	-
Rutherford	156.0	13.0	45.5	71.5	26.0
Smith	75.9	13.8	48.3	13.8	-
Sumner	73.5	29.4	24.5	19.6	-
Trousdale	24.4	-	12.2	12.2	-
Williamson	126.0	54.0	58.5	13.5	-
Wilson	120.7	14.2	56.8	49.7	-
All counties	2,139.4	605.9	910.8	581.6	41.1

Table 8.--*Commercial forest land by site class, 1980*

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					
Bedford	75.6	5.4	5.4	16.2	16.2	32.4
Cannon	84.0	-	6.0	-	72.0	6.0
Cheatham	104.0	-	-	-	88.4	15.6
Clay	97.5	-	-	22.5	67.5	7.5
Coffee	112.0	-	16.8	39.2	50.4	5.6
Davidson	98.0	-	-	14.7	58.8	24.5
DeKalb	74.0	-	22.2	18.5	14.8	18.5
Dickson	151.2	-	-	33.6	78.4	39.2
Giles	121.8	-	-	33.6	63.0	25.2
Jackson	112.2	-	10.2	25.5	56.1	20.4
Lincoln	105.0	-	-	10.0	60.0	35.0
Macon	59.4	-	19.8	39.6	-	-
Marshall	75.6	-	-	4.2	58.8	12.6
Maury	110.0	-	11.0	22.0	33.0	44.0
Montgomery	103.4	4.7	4.7	28.2	42.3	23.5
Moore	28.0	-	-	4.0	20.0	4.0
Robertson	51.2	-	-	6.4	38.4	6.4
Rutherford	156.0	-	-	-	32.5	123.5
Smith	75.9	-	-	6.9	62.1	6.9
Sumner	73.5	-	4.9	29.4	29.4	9.8
Trousdale	24.4	-	-	-	18.3	6.1
Williamson	126.0	4.5	13.5	31.5	45.0	31.5
Wilson	120.7	-	-	7.1	71.0	42.6
All counties	2,139.4	14.6	114.5	393.1	1,076.4	540.8

Table 9.--*Commercial forest land by physiographic site class, 1980*

County	All sites	Pine	Upland hardwood	Bottomland hardwood
	Thousand acres			
Bedford	75.6	10.8	59.4	5.4
Cannon	84.0	6.0	78.0	-
Cheatham	104.0	10.4	93.6	-
Clay	97.5	7.5	90.0	-
Coffee	112.0	-	100.8	11.2
Davidson	98.0	-	98.0	-
DeKalb	74.0	14.8	55.5	3.7
Dickson	151.2	-	151.2	-
Giles	121.8	12.6	105.0	4.2
Jackson	112.2	-	112.2	-
Lincoln	105.0	20.0	75.0	10.0
Macon	59.4	-	59.4	-
Marshall	75.6	4.2	71.4	-
Maury	110.0	5.5	104.5	-
Montgomery	103.4	9.4	89.3	4.7
Moore	28.0	-	28.0	-
Robertson	51.2	-	51.2	-
Rutherford	156.0	19.5	136.5	-
Smith	75.9	-	75.9	-
Sumner	73.5	-	73.5	-
Trousdale	24.4	-	24.4	-
Williamson	126.0	-	121.5	4.5
Wilson	120.7	21.3	99.4	-
All counties	2,139.4	142.0	1,953.7	43.7

Table 10.--*Cordage of growing stock on commercial forest land by species group, 1980*

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
	Thousand cords							
Bedford	613	31	-	31	582	107	-	475
Cannon	985	43	32	11	942	315	100	527
Cheatham	1,252	36	11	25	1,216	722	51	443
Clay	873	31	13	18	842	451	12	379
Coffee	1,913	-	-	-	1,913	1,225	60	628
Davidson	962	20	-	20	942	497	4	441
DeKalb	948	69	-	69	879	257	52	570
Dickson	2,144	3	-	3	2,141	1,296	44	801
Giles	1,180	20	7	13	1,160	437	71	652
Jackson	1,726	85	5	80	1,641	439	7	1,195
Lincoln	977	101	-	101	876	183	24	669
Macon	916	-	-	-	916	100	16	800
Marshall	551	58	-	58	493	264	-	229
Maury	1,260	5	1	4	1,255	372	25	858
Montgomery	934	28	11	17	906	448	52	406
Moore	447	31	-	31	416	221	3	192
Robertson	694	4	-	4	690	294	47	349
Rutherford	528	68	-	68	460	154	-	306
Smith	874	19	-	19	855	210	19	626
Sumner	776	15	-	15	761	216	64	481
Trousdale	190	20	-	20	170	51	-	119
Williamson	1,412	108	8	100	1,304	451	49	804
Wilson	882	233	-	233	649	249	-	400
All counties	23,037	1,028	88	940	22,009	8,959	700	12,350

Table 11.--*Growing-stock volume on commercial forest land by species group, 1980*

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
	Million cubic feet							
Bedford	41.3	2.3	-	2.3	39.0	7.2	-	31.8
Cannon	66.3	3.2	2.4	.8	63.2	21.1	6.7	35.4
Cheatham	84.2	2.7	.8	1.9	81.5	48.4	3.4	29.7
Clay	58.7	2.3	1.0	1.3	56.4	30.2	.8	25.4
Coffee	128.2	-	-	-	128.3	82.2	4.0	42.1
Davidson	64.6	1.5	-	1.5	63.1	33.3	.3	29.5
DeKalb	64.1	5.2	-	5.2	58.9	17.2	3.5	38.2
Dickson	143.6	.2	-	.2	143.4	86.8	2.9	53.7
Giles	79.2	1.5	.5	1.0	77.7	29.3	4.7	43.7
Jackson	116.3	6.4	.4	6.0	109.9	29.4	.5	80.0
Lincoln	66.3	7.6	-	7.6	58.7	12.3	1.6	44.8
Macon	61.4	-	-	-	61.4	6.7	1.1	53.6
Marshall	37.4	4.4	-	4.4	33.0	17.7	-	15.3
Maury	84.5	.4	.1	.3	84.1	24.9	1.7	57.5
Montgomery	62.8	2.1	.8	1.3	60.7	30.0	3.5	27.2
Moore	30.2	2.3	-	2.3	27.9	14.8	.2	12.9
Robertson	46.5	.3	-	.3	46.2	19.7	3.1	23.4
Rutherford	35.9	5.1	-	5.1	30.8	10.3	-	20.5
Smith	58.7	1.4	-	1.4	57.3	14.1	1.3	41.9
Sumner	52.1	1.1	-	1.1	51.0	14.5	4.3	32.2
Trousdale	12.9	1.5	-	1.5	11.4	3.4	-	8.0
Williamson	95.5	8.1	.6	7.5	87.4	30.2	3.3	53.9
Wilson	61.0	17.5	-	17.5	43.5	16.7	-	26.8
All counties	1,551.4	76.6	6.6	70.0	1,474.8	600.4	46.9	827.5

Table 12.--*Sawtimber volume on commercial forest land by species group, 1980*

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
	Million board feet							
Bedford	115.4	2.9	-	2.9	112.5	27.9	-	84.6
Cannon	184.8	-	-	-	184.8	71.9	12.8	100.1
Cheatham	221.3	6.6	3.5	3.1	214.7	135.1	10.4	69.2
Clay	140.2	9.5	6.4	3.1	130.7	92.1	-	38.6
Coffee	400.6	-	-	-	400.6	263.0	6.8	130.8
Davidson	240.2	2.8	-	2.8	237.4	157.7	-	79.7
DeKalb	185.5	5.8	-	5.8	179.7	52.7	10.3	116.7
Dickson	400.0	-	-	-	400.0	273.9	4.9	121.2
Giles	182.7	1.8	1.8	-	180.9	94.5	7.5	78.9
Jackson	394.0	8.6	1.9	6.7	385.4	115.1	-	270.3
Lincoln	133.9	2.4	-	2.4	131.5	32.2	2.6	96.7
Macon	167.0	-	-	-	167.0	26.3	-	140.7
Marshall	120.6	2.5	-	2.5	118.1	76.2	-	41.9
Maury	210.1	-	-	-	210.1	89.8	5.3	115.0
Montgomery	155.6	1.5	-	1.5	154.1	101.6	5.6	46.9
Moore	109.4	7.4	-	7.4	102.0	70.2	-	31.8
Robertson	166.4	1.2	-	1.2	165.2	88.3	8.8	68.1
Rutherford	51.7	-	-	-	51.7	27.8	-	23.9
Smith	118.5	-	-	-	118.5	31.2	3.0	84.3
Sumner	144.2	-	-	-	144.2	31.7	13.6	98.9
Trousdale	19.8	-	-	-	19.8	9.6	-	10.2
Williamson	278.8	15.0	-	15.0	263.8	105.9	10.8	147.1
Wilson	124.7	23.2	-	23.2	101.5	44.9	-	56.6
All counties	4,265.4	91.2	13.6	77.6	4,174.2	2,019.6	102.4	2,052.2

Table 13--*Sawtimber volume on commercial forest land by species group and diameter class, 1980*

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						
Bedford	115.4	2.9	2.9	-	112.5	55.6	56.9
Cannon	184.8.	-	-	-	184.8	114.0	70.8
Cheatham	221.3	6.6	5.2	1.4	214.7	103.8	110.9
Clay	140.2	9.5	9.5	-	130.7	75.0	55.7
Coffee	400.6	-	-	-	400.6	175.0	225.6
Davidson	240.2	2.8	2.8	-	237.4	86.1	151.3
DeKalb	185.5	5.8	5.8	-	179.7	76.9	102.8
Dickson	400.0	-	-	-	400.0	267.9	132.1
Giles	182.7	1.8	1.8	-	180.9	72.7	108.2
Jackson	394.0	8.6	8.6	-	385.4	160.1	225.3
Lincoln	133.9	2.4	2.4	-	131.5	72.1	59.4
Macon	167.0	-	-	-	167.0	103.2	63.8
Marshall	120.6	2.5	1.2	1.3	118.1	44.9	73.2
Maury	210.1	-	-	-	210.1	89.8	120.3
Montgomery	155.6	1.5	1.5	-	154.1	80.6	73.5
Moore	109.4	7.4	5.0	2.4	102.0	53.0	49.0
Robertson	166.4	1.2	1.2	-	165.2	40.3	124.9
Rutherford	51.7	-	-	-	51.7	32.6	19.1
Smith	118.5	-	-	-	118.5	45.3	73.2
Sumner	144.2	-	-	-	144.2	66.5	77.7
Trousdale	19.8	-	-	-	19.8	14.2	5.6
Williamson	278.8	15.0	10.1	4.9	263.8	118.9	144.9
Wilson	124.7	23.2	17.0	6.2	101.5	48.1	53.4
All counties	4,265.4	91.2	75.0	16.2	4,174.2	1,996.6	2,177.6

Table 14.--*Growing-stock volume of softwoods on commercial forest land by forest type, 1980*

County	All species	Cedar	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood
	Million cubic feet					
Bedford	2.3	1.7	.3	-	.3	-
Cannon	3.2	-	2.4	.8	-	-
Cheatham	2.7	-	-	2.7	-	-
Clay	2.3	-	.3	2.0	-	-
Coffee	-	-	-	-	-	-
Davidson	1.5	-	.6	.9	-	-
DeKalb	5.2	2.9	2.1	.2	-	-
Dickson	.2	-	-	.2	-	-
Giles	1.5	-	.3	1.2	-	-
Jackson	6.4	-	5.6	.8	-	-
Lincoln	7.6	2.9	3.7	1.0	-	-
Macon	-	-	-	-	-	-
Marshall	4.4	2.1	1.9	.4	-	-
Maury	.4	.3	-	.1	-	-
Montgomery	2.1	-	1.2	.9	-	-
Moore	2.3	-	.7	1.6	-	-
Robertson	.3	-	-	.3	-	-
Rutherford	5.1	3.7	1.4	-	-	-
Smith	1.4	-	-	1.4	-	-
Sumner	1.1	.5	.6	-	-	-
Trousdale	1.5	-	.8	.7	-	-
Williamson	8.1	4.2	.9	3.0	-	-
Wilson	17.5	7.1	6.4	4.0	-	-
All counties	77.1	25.4	29.2	22.2	.3	-

Table 15.--*Growing-stock volume of hardwoods on commercial forest land by forest type, 1980*

County	All species	Cedar	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood
	Million cubic feet					
Bedford	39.0	1.3	.1	33.1	4.5	-
Cannon	63.1	-	2.9	60.2	-	-
Cheatham	81.5	-	-	81.5	-	-
Clay	56.4	-	2.0	44.9	-	9.5
Coffee	128.2	-	-	114.1	14.1	-
Davidson	63.1	-	1.9	61.2	-	-
DeKalb	58.9	1.7	2.7	47.5	7.0	-
Dickson	143.4	-	-	139.3	-	4.1
Giles	77.7	-	1.1	70.4	1.2	5.0
Jackson	109.9	-	7.6	102.3	-	-
Lincoln	58.7	1.7	12.4	43.3	.7	.6
Macon	61.4	-	-	61.4	-	-
Marshall	33.0	.8	6.0	26.2	-	-
Maury	84.1	.3	.6	83.2	-	-
Montgomery	60.7	-	2.5	55.2	3.0	-
Moore	27.9	-	2.1	25.8	-	-
Robertson	46.2	-	-	46.2	-	-
Rutherford	30.8	2.3	8.5	20.0	-	-
Smith	57.3	-	-	57.3	-	-
Sumner	51.0	.2	-	50.8	-	-
Trousdale	11.4	-	3.2	8.2	-	-
Williamson	87.4	.8	2.0	83.0	1.6	-
Wilson	43.5	2.0	10.3	31.2	-	-
All counties	1,474.6	11.1	65.9	1,346.3	32.1	19.2

Table 16.--*Sawtimber volume of softwoods on commercial forest land by forest type, 1980*

County	All species	Cedar	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood
	Million board feet					
Bedford	2.9	1.5	1.4	-	-	-
Cannon	-	-	-	-	-	-
Cheatham	6.6	-	-	6.6	-	-
Clay	9.5	-	-	9.5	-	-
Coffee	-	-	-	-	-	-
Davidson	2.8	-	2.8	-	-	-
DeKalb	5.8	5.8	-	-	-	-
Dickson	-	-	-	-	-	-
Giles	1.8	-	-	1.8	-	-
Jackson	8.6	-	6.7	1.9	-	-
Lincoln	2.4	1.4	-	1.0	-	-
Macon	-	-	-	-	-	-
Marshall	2.5	-	2.5	-	-	-
Maury	-	-	-	-	-	-
Montgomery	1.5	-	1.5	-	-	-
Moore	7.4	-	-	7.4	-	-
Robertson	1.2	-	-	1.2	-	-
Rutherford	-	-	-	-	-	-
Smith	-	-	-	-	-	-
Sumner	-	-	-	-	-	-
Trousdale	-	-	-	-	-	-
Williamson	15.0	6.9	.6	7.5	-	-
Wilson	23.2	13.1	10.1	-	-	-
All counties	91.2	28.7	25.6	36.9	-	-

Table 17.--*Sawtimber volume of hardwoods on commercial forest by forest type, 1980*

County	All species	Cedar	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood
	Million board feet					
Bedford	112.5	6.9	-	83.3	22.3	-
Cannon	184.8	-	3.6	181.2	-	-
Cheatham	214.7	-	-	214.7	-	-
Clay	130.7	-	4.5	126.2	-	-
Coffee	400.6	-	-	360.3	40.3	-
Davidson	237.4	-	.8	236.6	-	-
DeKalb	179.7	1.4	-	150.5	27.8	-
Dickson	400.0	-	-	390.1	-	9.9
Giles	180.9	-	1.9	152.1	3.6	23.3
Jackson	385.4	-	25.8	359.6	-	-
Lincoln	131.5	7.2	20.7	102.3	1.3	-
Macon	167.0	-	-	167.0	-	-
Marshall	118.1	1.2	16.6	100.3	-	-
Maury	210.1	-	-	210.1	-	-
Montgomery	154.1	-	7.2	137.2	9.7	-
Moore	102.0	-	6.9	95.1	-	-
Robertson	165.2	-	-	165.2	-	-
Rutherford	51.7	2.1	20.4	29.2	-	-
Smith	118.5	-	-	118.5	-	-
Sumner	144.2	.8	-	143.4	-	-
Trousdale	19.8	-	3.3	16.5	-	-
Williamson	263.8	-	-	257.8	6.0	-
Wilson	101.5	4.1	19.9	77.5	-	-
All counties	4,174.2	23.7	131.6	3,874.7	111.0	33.2

Table 18.--*Growing-stock volume of softwoods on commercial forest land by stand-size class, 1980*

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
	Million cubic feet				
Bedford	2.3	1.0	-	1.3	-
Cannon	3.2	-	3.0	-	.2
Cheatham	2.7	2.1	-	.6	-
Clay	2.3	1.7	.6	-	-
Coffee	-	-	-	-	-
Davidson	1.5	-	.9	.6	-
DeKalb	5.2	-	5.1	.1	-
Dickson	.2	-	.2	-	-
Giles	1.5	.5	.7	.3	-
Jackson	6.4	2.7	2.8	.9	-
Lincoln	7.6	-	6.7	.9	-
Macon	-	-	-	-	-
Marshall	4.4	.6	1.9	1.9	-
Maury	.4	-	-	.4	-
Montgomery	2.1	.6	.7	.8	-
Moore	2.3	1.3	1.0	- 0	-
Robertson	.3	.3	-	-	-
Rutherford	5.1	.2	3.1	1.5	.3
Smith	1.4	-	1.4	-	-
Sumner	1.1	-	.6	.5	-
Trousdale	1.5	-	.7	.8	-
Williamson	8.1	1.0	4.7	2.4	-
Wilson	17.5	4.9	10.2	2.4	-
All counties	77.1	16.9	44.3	15.4	.5

Table 19.--*Growing-stock volume of hardwoods on commercial forest land by stand-size class, 1980*

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
	Million cubic feet				
Bedford	39.0	15.0	16.5	7.5	-
Cannon	63.1	36.1	20.3	6.0	.7
Cheatham	81.5	47.9	27.3	6.3	-
Clay	56.4	8.1	48.3	-	-
Coffee	128.2	91.1	31.9	5.2	-
Davidson	63.1	36.8	22.7	3.6	-
DeKalb	58.9	38.7	18.9	1.3	-
Dickson	143.4	62.5	73.4	7.5	-
Giles	77.7	39.7	27.7	10.3	-
Jackson	109.9	67.4	31.5	11.0	-
Lincoln	58.7	21.3	33.7	3.7	-
Macon	61.4	38.8	16.5	6.1	-
Marshall	33.0	23.0	5.2	4.3	.5
Maury	84.1	35.7	41.3	7.1	-
Montgomery	60.7	12.8	41.6	6.3	-
Moore	27.9	15.3	12.6	-	-
Robertson	46.2	32.8	11.2	2.2	-
Rutherford	30.8	5.7	18.9	5.9	.3
Smith	57.3	22.5	31.6	3.2	-
Sumner	51.0	38.9	8.6	3.5	-
Trousdale	11.4	-	8.2	3.2	-
Williamson	87.4	47.8	38.6	1.0	-
Wilson	43.5	5.4	32.3	5.8	-
All counties	1,474.6	743.3	618.8	111.0	1.5

Table 20.--*Sawtimber volume of softwoods on commercial forest land by stand-size class, 1980*

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
	Million board feet				
Bedford	2.9	1.5	-	1.4	-
Cannon	-	-	-	-	-
Cheatham	6.6	6.6	-	-	-
Clay	9.5	9.5	-	-	-
Coffee	-	-	-	-	-
Davidson	2.8	-	-	2.8	-
DeKalb	5.8	-	5.8	-	-
Dickson	-	-	-	-	-
Giles	1.8	1.8	-	-	-
Jackson	8.6	5.8	1.9	.9	-
Lincoln	2.4	-	2.4	-	-
Macon	-	-	-	-	-
Marshall	2.5	1.2	1.3	-	-
Maury	-	-	-	-	-
Montgomery	1.5	-	1.5	-	-
Moore	7.4	6.2	1.2	-	-
Robertson	1.2	1.2	-	-	-
Rutherford	-	-	-	-	-
Smith	-	-	-	-	-
Sumner	-	-	-	-	-
Trousdale	-	-	-	-	-
Williamson	15.0	4.9	6.4	3.7	-
Wilson	23.2	13.1	10.1	-	-
All counties	91.2	51.8	30.6	8.8	-

Table 21.--*Sawtimber volume of hardwoods on commercial forest land by stand-size class, 1980*

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
	Million board feet				
Bedford	112.5	64.6	25.2	22.7	-
Cannon	184.8	131.1	40.7	11.7	1.3
Cheatham	214.7	163.0	44.0	7.7	-
Clay	130.7	40.4	90.3	-	-
Coffee	400.6	335.7	56.0	8.9	-
Davidson	237.4	179.2	50.3	7.9	-
DeKalb	179.7	152.9	26.8	-	-
Dickson	400.0	241.4	138.4	20.2	-
Giles	180.9	138.3	26.9	15.7	-
Jackson	385.4	294.7	70.2	20.5	-
Lincoln	131.5	64.0	61.5	6.0	-
Macon	167.0	118.3	32.3	16.4	-
Marshall	118.1	101.1	9.7	7.3	-
Maury	210.1	141.5	51.2	17.4	-
Montgomery	154.1	50.3	85.7	18.1	-
Moore	102.0	71.0	31.0	-	-
Robertson	165.2	133.7	28.0	3.5	-
Rutherford	51.7	17.8	23.3	9.0	1.6
Smith	118.5	84.8	28.4	5.3	-
Sumner	144.2	111.3	16.5	16.4	-
Trousdale	19.8	-	16.5	3.3	-
Williamson	263.8	184.0	79.8	-	-
Wilson	101.5	23.8	65.1	12.6	-
All counties	4,174.2	2,842.9	1,097.8	230.6	2.9

Table 22.--*Growing-stock volume on commercial forest land by physiographic site class and species group, 1980*

County	All sites	Pine		Upland hardwood		Bottomland hardwood	
		Softwood	Hardwood	Softwood	Hardwood	Softwood	Hardwood
	Million cubic feet						
Bedford	41.3	.3	.8	1.7	33.7	.3	4.5
Cannon	66.3	-	-	3.2	63.1	-	-
Cheatham	84.2	.9	6.6	1.8	74.9	-	-
Clay	58.7	1.0	3.8	1.3	52.6	-	-
Coffee	128.2	-	-	-	114.1	-	14.1
Davidson	64.6	-	-	1.5	63.1	-	-
DeKalb	64.1	3.0	4.2	2.2	47.7	-	7.0
Dickson	143.6	-	-	.2	143.4	-	-
Giles	79.2	.8	7.7	.7	68.8	-	1.2
Jackson	116.3	-	-	6.4	109.9	-	-
Lincoln	66.3	3.9	8.3	3.7	49.1	-	1.3
Macon	61.4	-	-	-	61.4	-	-
Marshall	37.4	1.3	.1	3.1	32.9	-	-
Maury	84.5	.1	.4	.3	83.7	-	-
Montgomery	62.8	.8	.7	1.3	57.0	-	3.0
Moore	30.2	-	-	2.3	27.9	-	-
Robertson	46.5	-	-	.3	46.2	-	-
Rutherford	35.9	.2	2.0	4.9	28.8	-	-
Smith	58.7	-	-	1.4	57.3	-	-
Sumner	52.1	-	-	1.1	51.0	-	-
Trousdale	12.9	-	-	1.5	11.4	-	-
Williamson	95.5	-	-	8.1	85.8	-	1.6
Wilson	61.0	5.5	2.9	12.0	40.6	-	-
All counties	1,551.7	17.8	37.5	59.0	1,404.4	.3	32.7

Table 23.--*Growing-stock volume of softwoods on commercial forest land by class of timber and tree section, 1980*

County	All classes	Poletimber	Sawtimber		
			Total	Sawlog	Upper stem
	Million cubic feet				
Bedford	2.3	1.6	.7	.5	.2
Cannon	3.2	3.2	-	-	-
Cheatham	2.7	1.2	1.5	1.2	.3
Clay	2.3	.6	1.7	1.6	.1
Coffee	-	-	-	-	-
Davidson	1.5	.9	.6	.6	-
DeKalb	5.2	3.8	1.4	1.2	.2
Dickson	.2	.2	-	-	-
Giles	1.5	1.0	.5	.3	.2
Jackson	6.4	4.3	2.1	1.7	.4
Lincoln	7.6	6.9	.7	.5	.2
Macon	-	-	-	-	-
Marshall	4.4	3.8	.6	.5	.1
Maury	.4	.4	-	-	-
Montgomery	2.1	1.7	.4	.3	.1
Moore	2.3	.7	1.6	1.2	.4
Robertson	.3	-	.3	.3	-
Rutherford	5.1	5.1	-	-	-
Smith	1.4	1.4	-	-	-
Sumner	1.1	1.1	-	-	-
Trousdale	1.5	1.5	-	-	-
Williamson	8.1	4.7	3.4	2.9	.5
Wilson	17.5	12.3	5.2	4.7	.5
All counties	77.1	56.4	20.7	17.5	3.2

Table 24.--*Growing-stock of hardwoods on commercial forest land by class of timber and tree section, 1980*

County	All classes	Poletimber	Sawtimber		
			Total	Sawlog	Upper stem
	Million cubic feet				
Bedford	39.0	16.0	23.0	18.8	4.2
Cannon	63.1	23.4	39.7	30.5	9.2
Cheatham	81.5	35.2	46.3	36.2	10.1
Clay	56.4	33.2	23.2	21.2	2.0
Coffee	128.2	44.4	83.8	69.2	14.6
Davidson	63.1	21.6	41.5	35.7	5.8
DeKalb	58.9	22.6	36.3	29.4	6.9
Dickson	143.4	63.2	80.2	66.3	13.9
Giles	77.7	39.2	38.5	29.6	8.9
Jackson	109.9	41.2	68.7	59.8	8.9
Lincoln	58.7	29.8	28.9	20.9	8.0
Macon	61.4	27.1	34.3	26.6	7.7
Marshall	33.0	9.1	23.9	19.7	4.2
Maury	84.1	39.8	44.3	34.6	9.7
Montgomery	60.7	27.3	33.4	26.8	6.6
Moore	27.9	7.4	20.5	17.1	3.4
Robertson	46.2	11.5	34.7	27.0	7.7
Rutherford	30.8	19.1	11.7	8.8	2.9
Smith	57.3	33.8	23.5	19.6	3.9
Sumner	51.0	20.2	30.8	24.2	6.6
Trousdale	11.4	6.9	4.5	3.5	1.0
Williamson	87.4	33.8	53.6	44.5	9.1
Wilson	43.5	21.7	21.8	16.2	5.6
All counties	1,474.6	627.5	847.1	686.2	160.9

Table 25.--*Volume of timber on commercial forest land by class of timber and species group, 1980*

County	All counties	Growing stock		Rough		Rotten	
		Softwood	Hardwood	Softwood	Hardwood	Softwood	Hardwood
	Million cubic feet						
Bedford	56.1	2.3	39.0	2.6	7.7	.1	4.4
Cannon	86.7	3.2	63.1	1.2	15.9	-	3.3
Cheatham	108.2	2.7	81.5	.9	9.9	.3	12.9
Clay	75.9	2.3	56.4	.3	6.9	-	10.0
Coffee	153.2	-	128.2	-	19.0	-	6.0
Davidson	80.4	1.5	63.1	.2	7.4	-	8.2
DeKalb	77.2	5.2	58.9	.7	8.8	.4	3.2
Dickson	176.9	.2	143.4	.2	16.4	-	16.7
Giles	97.3	1.5	77.7	-	13.2	-	4.9
Jackson	148.9	6.4	109.9	.7	25.1	-	6.8
Lincoln	90.4	7.6	58.7	.6	17.6	-	5.9
Macon	77.8	-	61.4	-	11.1	-	5.3
Marshall	52.0	4.4	33.0	2.6	8.9	-	3.1
Maury	99.4	.4	84.1	.4	12.8	-	1.7
Montgomery	77.6	2.1	60.7	.5	10.1	.2	4.0
Moore	35.0	2.3	27.9	.2	3.4	-	1.2
Robertson	61.8	.3	46.2	-	11.5	-	3.8
Rutherford	70.6	5.1	30.8	7.1	23.2	.5	3.9
Smith	73.3	1.4	57.3	.3	10.3	-	4.0
Sumner	65.8	1.1	51.0	.3	10.9	-	2.5
Trousdale	16.5	1.5	11.4	.6	2.9	-	.1
Williamson	126.3	8.1	87.4	1.2	18.3	.3	11.0
Wilson	74.4	17.5	43.5	1.9	6.9	1.9	2.7
All counties	1,981.7	77.1	1,474.6	22.5	278.2	3.7	125.6

Table 26.--*Number of growing stock trees by species and diameter class, 1980*

Species	All classes	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0 20.9	21.0 28.9	29.0 & larger
	Diameter class (inches at breast height)										
	Thousand trees										
Softwood:											
Shortleaf pine	17	-	-	-	-	17	-	-	-	-	-
Loblolly pine	1,674	1,295	316	63	-	-	-	-	-	-	-
Virginia pine	72	-	-	-	24	48	-	-	-	-	-
White pine	100	100	-	-	-	-	-	-	-	-	-
Redcedar	20,252	12,838	5,924	947	318	112	87	26	-	-	-
Total	22,115	14,233	6,240	1,010	342	177	87	26	-	-	-
Hardwood:											
Select white oaks[1]	18,272	5,907	5,133	2,411	1,898	1,400	819	324	257	123	-
Select red oaks[2]	6,624	1,386	1,409	1,538	849	617	433	194	65	124	9
Other white oaks	11,919	5,180	2,037	1,768	1,088	909	374	343	78	119	23
Other red oaks	16,837	4,062	3,967	3,063	2,092	1,558	1,012	569	250	226	38
Other hickories	30,765	11,875	8,907	5,020	2,779	1,364	572	162	42	44	-
Persimmon	1,772	993	445	182	107	29	16	-	-	-	-
Hardmaple	8,951	3,929	2,199	1,159	756	380	293	171	17	39	8
Softmaple	2,102	785	679	322	104	57	59	55	22	19	-
Boxelder	1,273	714	286	126	121	-	19	-	-	7	-
Beech	3,483	1,551	604	613	242	93	153	87	93	41	6
Sweetgum	3,123	909	1,040	511	357	188	77	35	-	6	-
Blackgum	3,826	1,929	1,075	404	224	114	30	31	12	7	-
White ash	7,344	3,974	1,361	688	696	378	141	55	51	-	-
Other ashes	3,932	2,264	1,024	217	217	57	96	34	11	12	-
Sycamore	388	84	-	35	98	59	12	68	18	14	-
Basswood	597	74	149	60	179	67	22	26	-	20	-
Yellow-poplar	8,315	2,298	1,319	1,540	1,184	795	580	263	119	217	-
Magnolia	76	-	76	-	-	-	-	-	-	-	-
Willow	89	89	-	-	-	-	-	-	-	-	-
Black walnut	4,052	1,356	1,308	779	350	107	59	62	31	-	-
Black cherry	1,542	400	569	281	156	35	101	-	-	-	-
American elm	4,299	2,639	717	543	221	56	95	12	8	5	3
Other elms	5,546	3,529	796	769	242	68	97	26	11	8	-
River birch	12	-	-	-	-	-	-	12	-	-	-
Hackberry	8,197	4,067	2,160	1,027	620	183	68	50	10	12	-
Black locust	6,029	2,961	2,158	601	206	59	25	10	9	-	-
Other locusts	1,403	983	204	205	-	-	-	11	-	-	-
Sassafras	6,252	3,043	1,826	777	363	139	57	32	15	-	-
Dogwood	1,707	1,653	54	-	-	-	-	-	-	-	-
Holly	78	-	78	-	-	-	-	-	-	-	-
Other hardwoods	1,024	517	257	162	49	39	-	-	-	-	-
Total	169,829	69,151	41,837	24,801	15,198	8,751	5,210	2,632	1,119	1,043	87
All species	191,944	83,384	48,077	25,811	15,540	8,928	5,297	2,658	1,119	1,043	87

1 Includes white, swamp chestnut, chinkapin, and bur oaks.
2 Includes northern red, shumard, and cherry oaks.

Table 27.--*Growing-stock volume on commercial forest land by species and diameter class, 1980*

Species	All classes	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 & larger
	Diameter class (inches at breast height)										
	Million cubic feet										
Softwood:											
Shortleaf pine	.4	-	-	-	-	.4	-	-	-	-	-
Loblolly pine	4.4	2.8	1.1	.5	-	-	-	-	-	-	-
Virginia pine	1.8	-	-	-	.4	1.4	-	-	-	-	-
White pine	.1	.1	-	-	-	-	-	-	-	-	-
Redcedar	70.4	27.8	24.6	8.7	3.9	2.0	2.6	.8	-	-	-
Total	77.1	30.7	25.7	9.2	4.3	3.8	2.6	.8	-	-	-
Hardwood:											
Select white oaks	194.7	14.6	27.0	25.6	32.2	33.2	27.8	13.1	12.7	8.5	-
Select red oaks	86.8	3.4	6.8	16.5	14.0	13.9	13.4	6.7	3.4	7.6	1.1
Other white oaks	107.5	11.2	9.9	17.0	15.8	18.1	10.0	12.0	3.3	6.9	3.3
Other red oaks	211.3	11.2	22.5	29.5	32.8	33.3	30.6	22.3	10.1	14.2	4.8
Other hickories	241.9	26.4	49.7	52.0	47.5	34.3	20.3	6.6	2.2	2.9	-
Persimmon	9.2	2.2	2.4	2.3	1.2	.6	.5	-	-	-	-
Hardmaple	76.1	9.7	14.2	11.0	12.4	9.8	9.1	6.4	.5	2.4	.6
Softmaple	18.5	1.8	4.9	3.2	1.7	1.2	1.8	2.1	.8	1.0	-
Boxelder	6.3	1.6	1.2	1.2	1.7	-	.4	-	-	.2	-
Beech	38.0	3.8	3.6	7.1	4.3	2.3	5.2	3.9	4.8	2.4	.6
Sweetgum	26.9	1.9	5.2	5.4	5.7	4.4	2.4	1.3	-	.6	-
Blackgum	20.0	4.1	5.3	2.5	2.7	2.4	.8	1.3	.5	.4	-
White ash	52.0	9.7	7.9	6.2	10.9	8.7	4.1	2.0	2.5	-	-
Other ashes	21.3	4.5	5.3	1.9	3.2	1.3	2.8	1.1	.5	.7	-
Sycamore	8.5	.1	-	.2	1.8	1.6	.3	2.7	.9	.9	-
Basswood	9.5	.3	1.6	.5	2.9	1.3	.5	1.1	-	1.3	-
Yellow-poplar	137.3	6.5	9.3	18.4	23.0	22.0	21.1	13.3	6.8	16.9	-
Magnolia	.9	-	.9	-	-	-	-	-	-	-	-
Willow	.3	.3	-	-	-	-	-	-	-	-	-
Black walnut	27.3	3.2	5.8	6.7	4.9	1.9	1.7	2.0	1.1	-	-
Black cherry	12.3	1.0	2.5	2.6	2.9	.6	2.7	-	-	-	-
American elm	21.6	5.8	3.2	4.4	3.6	1.2	2.2	.4	.3	.2	.3
Other elms	24.4	5.5	3.5	6.9	2.7	1.2	2.9	.9	.4	.4	-
River birch	.4	-	-	-	-	-	-	.4	-	-	-
Hackberry	42.8	8.1	9.7	8.7	8.4	3.2	2.1	1.5	.4	.7	-
Black locust	29.1	6.2	11.3	5.7	3.3	1.1	.8	.4	.3	-	-
Other locusts	4.6	2.2	.8	1.3	-	-	-	.3	-	-	-
Sassafras	36.8	6.5	10.3	7.6	5.8	2.9	1.6	1.4	.7	-	-
Dogwood	1.9	1.8	.1	-	-	-	-	-	-	-	-
Holly	.3	-	.3	-	-	-	-	-	-	-	-
Other hardwoods	6.1	1.2	1.7	1.4	.8	1.0	-	-	-	-	-
Total	1,474.6	154.8	226.9	245.8	246.2	201.5	165.1	103.2	52.2	68.2	10.7
All species	1,551.7	185.5	252.6	255.0	250.5	205.3	167.7	104.0	52.2	68.2	10.7

Table 28.--*Sawtimber volume on commercial forest land by species and diameter class, 1980*

Species	All classes	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0 20.9	21.0 28.9	29.0 & larger
	Diameter class (inches at breast height)								
	Million board feet								
Softwood:									
Shortleaf pine	1.7	-	-	1.7	-	-	-	-	-
Loblolly pine	1.8	1.8	-	-	-	-	-	-	-
Virginia pine	10.1	-	1.9	8.2	-	-	-	-	-
Redcedar	77.6	35.3	16.7	9.4	12.1	4.1	-	-	-
Total	91.2	37.1	18.6	19.3	12.1	4.1	-	-	-
Hardwood:									
Select white oaks	627.3		133.6	152.7	149.9	71.6	69.8	49.7	
Select red oaks	305.4		59.1	67.7	69.8	37.6	18.1	45.4	7.7
Other white oaks	348.6		69.4	86.7	50.2	63.6	18.9	40.0	19.8
Other red oaks	738.3		132.9	156.7	162.9	118.5	55.7	83.1	28.5
Other hickories	559.2		210.6	171.5	106.0	39.0	13.5	18.6	-
Persimmon	10.7		5.5	2.4	2.8	-	-	-	-
Hardmaple	195.2		52.2	47.2	41.3	34.1	2.8	13.3	4.3
Softmaple	40.1		7.4	3.1	9.0	10.8	4.1	5.7	-
Boxelder	8.5		6.1	-	1.3	-	-	1.1	-
Beech	122.6		18.6	9.8	30.3	20.3	23.2	17.0	3.4
Sweetgum	64.4		23.6	20.6	10.1	7.2	-	2.9	-
Blackgum	38.0		9.0	11.7	4.4	8.2	2.3	2.4	-
White ash	137.1		49.2	41.1	23.6	9.7	13.5	-	-
Other ashes	52.3		15.8	5.9	16.5	7.2	3.6	3.3	-
Sycamore	37.1		5.7	8.0	1.1	11.7	4.9	5.7	-
Basswood	30.9		10.7	5.8	2.7	5.3	-	6.4	-
Yellow-poplar	537.9		98.5	108.1	116.6	77.7	38.4	98.6	-
Magnolia	-		-	-	-	-	-	-	-
Willow	-		-	-	-	-	-	-	-
Black walnut	50.7		19.5	8.8	8.1	8.3	6.0	-	-
Black cherry	25.3		10.8	2.6	11.9	-	-	-	-
American elm	39.1		15.5	5.2	11.3	2.3	1.2	1.5	2.1
Other elms	40.3		11.2	5.5	14.2	4.5	2.1	2.8	-
River birch	1.6		-	-	-	1.6	-	-	-
Hackberry	69.8		33.6	12.1	10.7	7.5	1.5	4.4	-
Black locust	24.9		14.0	3.8	3.8	1.9	1.4	-	-
Other locusts	1.8		-	-	-	1.8	-	-	-
Sassafras	60.5		25.5	15.0	8.2	8.1	3.7	-	-
Dogwood	-		-	-	-	-	-	-	-
Holly	-		-	-	-	-	-	-	-
Other hardwoods	6.6		2.7	3.9	-	-	-	-	-
Total	4,174.2		1040.7	955.9	866.7	558.5	284.7	401.9	65.8
All species	4,265.4	37.1	1059.3	975.2	878.8	562.6	284.7	401.9	65.8

Table 29.--*Growing-stock volume in the saw-log portion of sawtimber trees on commercial forest land by diameter class and species, 1980*

Species	Diameter class (inches at breast height)								
	All classes	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 & larger
	Million cubic feet								
Softwood:									
Shortleaf pine	.3	-	-	.3	-	-	-	-	-
Loblolly pine	.3	.3	-	-	-	-	-	-	-
Virginia pine	1.7	-	.4	1.3	-	-	-	-	-
Redcedar	15.2	7.1	3.3	1.6	2.4	.8	-	-	-
Total	17.5	7.4	3.7	3.2	2.4	.8	-	-	-
Hardwood:									
Select white oaks	103.6	-	24.7	26.4	23.6	11.1	10.4	7.4	-
Select red oaks	50.3	-	10.5	11.4	11.8	5.9	2.8	6.8	1.1
Other white oaks	56.5	-	12.3	14.2	8.5	9.8	3.0	5.8	2.9
Other red oaks	122.5	-	25.2	27.7	26.0	18.9	8.3	12.3	4.1
Other hickories	91.2	-	37.0	27.8	15.9	6.0	1.8	2.7	-
Persimmon	1.6	-	.8	.4	.4	-	-	-	-
Hardmaple	32.3	-	9.4	7.9	6.5	5.4	.4	2.1	.6
Softmaple	7.1	-	1.4	1.0	1.5	1.7	.6	.9	-
Boxelder	1.6	-	1.2	-	.2	-	-	.2	-
Beech	19.0	-	3.2	1.8	4.6	3.3	3.6	2.1	.4
Sweetgum	11.4	-	4.0	3.9	1.7	1.3	-	.5	-
Blackgum	6.6	-	1.9	2.0	.8	1.2	.4	.3	-
White ash	22.6	-	8.7	6.9	3.5	1.4	2.1	-	-
Other ashes	8.1	-	2.6	1.0	2.5	1.1	.5	.4	-
Sycamore	6.6	-	1.2	1.3	.2	2.2	.8	.9	-
Basswood	5.6	-	2.1	1.1	.5	.9	-	1.0	-
Yellow-poplar	85.9	-	17.1	18.2	18.3	11.9	5.8	14.6	-
Magnolia	-	-	-	-	-	-	-	-	-
Willow	-	-	-	-	-	-	-	-	-
Black walnut	8.7	-	3.6	1.5	1.3	1.3	1.0	-	-
Black cherry	4.3	-	2.0	.5	1.8	-	-	-	-
American elm	6.3	-	2.6	.9	1.8	.3	.2	.2	.3
Other elms	6.5	-	2.1	.8	2.2	.7	.3	.4	-
River birch	.3	-	-	-	-	.3	-	-	-
Hackberry	11.8	-	6.0	2.3	1.6	1.1	.2	.6	-
Black locust	3.9	-	2.2	.6	.6	.3	.2	-	-
Other locusts	.3	-	-	-	-	.3	-	-	-
Sassafras	10.5	-	4.6	2.5	1.5	1.2	.7	-	-
Dogwood	-	-	-	-	-	-	-	-	-
Holly	-	-	-	-	-	-	-	-	-
Other hardwoods	1.1	-	.5	.6	-	-	-	-	-
Total	686.2	-	186.9	162.7	137.3	87.6	43.1	59.2	9.4
All species	703.7	7.4	190.6	165.9	139.7	88.4	43.1	59.2	9.4

Table 30.--*Growing-stock volume on commercial forest land by species, class of timber and tree section, 1980*

Species	All classes	Poletimber	Sawtimber		
			Total	Sawlog	Upper stem
	Million cubic feet				
Softwood:					
Shortleaf pine	.4	-	.4	.3	.1
Loblolly pine	4.4	3.9	.5	.3	.2
Virginia pine	1.8	-	1.8	1.7	.1
White Pine	.1	.1	-	-	-
Redcedar	70.4	52.4	18.0	15.2	2.8
Total	77.1	56.4	20.7	17.5	3.2
Hardwood:					
Select white oaks	194.7	67.2	127.5	103.6	23.9
Select red oaks	86.8	26.7	60.1	50.3	9.8
Other white oaks	107.5	38.1	69.4	56.5	12.9
Other red oaks	211.3	63.2	148.1	122.5	25.6
Other hickories	241.9	128.1	113.8	91.2	22.6
Persimmon	9.2	6.9	2.3	1.6	.7
Hardmaple	76.1	34.9	41.2	32.3	8.9
Softmaple	18.5	9.9	8.6	7.1	1.5
Boxelder	6.3	4.0	2.3	1.6	.7
Beech	38.0	14.5	23.5	19.0	4.5
Sweetgum	26.9	12.5	14.4	11.4	3.0
Blackgum	20.0	11.9	8.1	6.6	1.5
White ash	52.0	23.8	28.2	22.6	5.6
Other ashes	21.3	11.7	9.6	8.1	1.5
Sycamore	8.5	.3	8.2	6.6	1.6
Basswood	9.5	2.4	7.1	5.6	1.5
Yellow-poplar	137.3	34.2	103.1	85.9	17.2
Magnolia	.9	.9	-	-	-
Willow	.3	.3	-	-	-
Black walnut	27.3	15.7	11.6	8.7	2.9
Black cherry	12.3	6.1	6.2	4.3	1.9
American elm	21.6	13.4	8.2	6.3	1.9
Other elms	24.4	15.9	8.5	6.5	2.0
River birch	.4	-	.4	.3	.1
Hackberry	42.8	26.5	16.3	11.8	4.5
Black locust	29.1	23.2	5.9	3.9	2.0
Other locusts	4.6	4.3	.3	.3	-
Sassafras	36.8	24.4	12.4	10.5	1.9
Dogwood	1.9	1.9	-	-	-
Holly	.3	.3	-	-	-
Other hardwoods	6.1	4.3	1.8	1.1	.7
Total	1,474.6	627.5	847.1	686.2	160.9
All species	1,551.7	683.9	867.8	703.7	164.1

Table 31.--*Volume of timber on commercial forest land by species and class of timber, 1980*

Species	All live	Growing stock	Rough	Rotten
	Million cubic feet			
Softwood:				
Shortleaf pine	.4	.4	-	-
Loblolly pine	4.9	4.4	.5	-
Virginia pine	1.8	1.8	-	-
White pine	.1	.1	-	-
Redcedar	96.1	70.4	22.0	3.7
Total	103.3	77.1	22.5	3.7
Hardwood:				
Select white oaks	223.6	194.7	22.4	6.5
Select red oaks	99.2	86.8	5.7	6.7
Other white oaks	129.9	107.5	15.5	6.9
Other red oaks	239.7	211.3	17.6	10.8
Other hickories	272.9	241.9	21.1	9.9
Persimmon	10.5	9.2	1.0	.3
Hardmaple	115.8	76.1	24.9	14.8
Softmaple	30.0	18.5	6.4	5.1
Boxelder	11.5	6.3	4.7	.5
Beech	72.1	38.0	10.4	23.7
Sweetgum	31.8	26.9	3.2	1.7
Blackgum	26.5	20.0	4.6	1.9
White ash	68.5	52.0	13.4	3.1
Other ashes	27.1	21.3	4.4	1.4
Sycamore	12.7	8.5	2.8	1.4
Basswood	12.5	9.5	2.0	1.0
Yellow-poplar	151.2	137.3	7.8	6.1
Magnolia	.9	.9	-	-
Willow	.3	.3	-	-
Black walnut	35.3	27.3	6.2	1.8
Black cherry	18.6	12.3	4.9	1.4
American elm	34.2	21.6	9.7	2.9
Other elms	34.9	24.4	8.9	1.6
River birch	.7	.4	.3	-
Hackberry	70.9	42.8	24.2	3.9
Black locust	42.0	29.1	6.1	6.8
Other locusts	7.1	4.6	2.1	.4
Sassafras	50.3	36.8	10.4	3.1
Dogwood	2.8	1.9	.7	.2
Holly	.5	.3	.2	-
Other commercial	16.1	6.1	8.3	1.7
Noncommercial	28.3	-	28.3	-
Total	1,878.4	1,474.6	278.2	125.6
All species	1,981.7	1,551.7	300.7	129.3

Table 32.--*Average volume per acre of growing stock and sawtimber on commercial forest land by species group and ownership class, 1980*

Ownership class	Growing stock			Sawtimber		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood
	Cubic feet			*Board feet*		
National forest	-	-	-	-	-	-
Other public	636	48	588	1,648	63	1,585
Forest industry	750	20	730	2,750	-	2,750
Farmer	758	45	713	2,044	52	1,992
Misc. private	696	24	672	1,961	30	1,931
All ownerships	725	36	689	1,994	43	1,951

Table 33.--*Average volume per acre of growing stock and sawtimber on commercial forest land by forest type and species group, 1980*

Forest type	Growing stock			Sawtimber		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood
	Cubic feet			*Board feet*		
Cedar	220	152	68	322	176	146
Oak-pine	383	118	265	632	103	529
Oak-hickory	825	13	812	2,357	22	2,335
Oak-gum-cypress	837	8	829	2,868	-	2,868
Elm-ash-cottonwood	644	-	644	1,114	-	1,114
All types	725	36	689	1,994	43	1,951

Table 34.--*Metric area of commercial forest land by ownership class, 1980*

County	All ownerships	National Forest	Other public	Forest industry	Farmer	Misc. private
	Thousand hectares					
Bedford	30.6	-	-	2.2	15.3	13.1
Cannon	34.0	-	-	-	21.9	12.1
Cheatham	42.1	-	8.4	-	8.4	25.3
Clay	39.5	-	4.2	-	21.3	14.0
Coffee	45.3	-	8.6	-	18.1	18.6
Davidson	39.7	-	2.1	-	13.9	23.7
DeKalb	29.9	-	7.1	-	12.0	10.8
Dickson	61.2	-	(1)	2.3	31.7	27.2
Giles	49.3	-	(1)	1.7	30.6	17.0
Jackson	45.4	-	1.2	-	22.7	21.5
Lincoln	42.5	-	.2	-	24.3	18.0
Macon	24.0	-	-	-	16.0	8.0
Marshall	30.6	-	(1)	-	20.4	10.2
Maury	44.5	-	(1)	-	24.5	20.0
Montgomery	41.8	-	5.5	-	19.0	17.3
Moore	11.3	-	-	-	6.5	4.8
Robertson	20.7	-	.1	-	12.9	7.7
Rutherford	63.2	-	1.9	-	15.8	45.5
Smith	30.7	-	.8	-	19.5	10.4
Sumner	29.7	-	.5	-	17.8	11.4
Trousdale	9.9	-	.1	-	7.4	2.4
Williamson	51.0	-	.2	-	29.1	21.7
Wilson	48.9	-	.5	-	31.7	16.7
All counties	865.8	-	41.4	6.2	440.8	377.4

Table 35.--*Metric volume of growing stock on commercial forest land by species group, 1980*

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
	Thousand cubic meters							
Bedford	1,169	65	-	65	1,104	204	-	900
Cannon	1,878	91	68	23	1,787	597	190	1,000
Cheatham	2,384	76	23	53	2,308	1,371	96	841
Clay	1,662	65	28	37	1,597	855	23	719
Coffee	3,630	-	-	-	3,630	2,325	113	1,192
Davidson	1,829	42	-	42	1,787	943	9	835
DeKalb	1,816	148	-	148	1,668	487	99	1,082
Dickson	4,067	6	-	6	4,061	2,458	82	1,521
Giles	2,242	42	14	28	2,200	830	133	1,237
Jackson	3,293	181	11	170	3,112	833	14	2,265
Lincoln	1,878	216	-	216	1,662	348	45	1,269
Macon	1,739	-	-	-	1,739	190	31	1,518
Marshall	1,059	125	-	125	934	501	-	433
Maury	2,392	11	3	8	2,381	705	48	1,628
Montgomery	1,778	59	23	36	1,719	850	99	770
Moore	855	65	-	65	790	419	6	365
Robertson	1,316	8	-	8	1,308	557	88	663
Rutherford	1,016	144	-	144	872	292	-	580
Smith	1,663	40	-	40	1,623	399	37	1,187
Sumner	1,475	31	-	31	1,444	411	122	911
Trousdale	365	42	-	42	323	96	-	227
Williamson	2,705	230	17	213	2475	855	93	1,527
Wilson	1,728	496	-	486	1,232	473	-	759
All counties	43,939	2,183	187	1,996	41,756	16,999	1,328	23,429

Table 36.--*Average volume per hectare of growing stock on commercial forest land by species group and ownership class, 1980*

Ownership class	All species	Softwood	Hardwood
	Cubic meters		
National forest	-	-	-
Other public	45	3	42
Forest industry	52	1	51
Farmer	53	3	50
Misc. private	49	2	47
All ownerships	51	3	48

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This report tabulates forest resource information from a new inventory of counties in Tennessee.

Additional keywords: Area, volume, forest type, stand-size, ownership, growth, removals, mortality.

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