U. S. Department of Agriculture
Forest Service Resource Bulletin SO-26

Forest Statistics for East Tennessee Counties

Arnold Hedlund and J. M. Corner

Southern Forest Experiment Station
New Orleans, Louisiana
Forest Service, U. S. Department of Agriculture
1971

In this report:

	Table
SAMPLING ERRORS	1,2
FOREST RESOURCE CHANGES, 1961-71	3
FOREST AREA IN—	
—acres	4,6,7,8
—hectares	5
GROWING STOCK IN—	
—cords	9
—cubic feet	10,18,20,22,24
—cubic meters	11,25
SAWTIMBER IN—	
—International 1/4-inch rule	12,13,19,21,23,24
—Scribner rule	14,15
—Doyle rule	16,17

Forest Statistics for East Tennessee Counties

Arnold Hedlund and J. M. Earles

This report tabulates information from a new forest inventory of east Tennessee counties, completed in 1971 by the Southern Forest Experiment Station. The tables are intended for use as source data in compiling estimates for groups of counties. Because the sampling procedure is intended primarily to furnish inventory data for the State as a whole, estimates for individual counties have limited and variable accuracy.

The data on forest acreage and timber volume were secured by a systematic sampling method involving a forest-nonforest classification on aerial photographs and on-the-ground measurements of trees at sample locations. The sample locations were at the intersections of a grid of lines spaced 3 miles apart. At each forested location, 10 small plots were uniformly distributed on an area of about 1 acre.

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

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

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

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

SE = Specified sampling error for the region.

When data for two or more counties are grouped the error decreases. Conversely, as data for individual counties are broken down

Table 1. *Sampling errors*[1] *for forest land and timber volume by county, 1971*

County	Commercial forest land	Growing stock	Sawtimber	County	Commercial forest land	Growing stock	Sawtimber
	Percent				*Percent*		
Anderson	2	13	19	Knox	2	18	24
Blount	3	15	21	Loudon	9	23	32
Bradley	7	8	28	McMinn	3	13	25
Carter	2	11	17	Meigs	4	23	37
Claiborne	3	14	22	Monroe	1	9	14
Cocke	2	12	17	Polk	2	10	13
Grainger	3	18	21	Rhea	3	10	18
Greene	2	15	22	Roane	4	10	17
Hamblen	4	36	48	Sevier	3	12	19
Hamilton	3	15	24	Sullivan	1	17	23
Hancock	2	30	35	Unicoi	5	15	20
Hawkins	3	13	24	Union	5	13	25
Jefferson	5	21	29	Washington	1	18	29
Johnson	4	15	23	All counties	.6	2.8	4.3

[1] By random-sampling formula.

by various subdivisions, the possibility of error increases and is greatest for the smallest items. Sampling errors associated with the estimates of the principal timber species in this report are shown in table 2.

Table 2. *Sampling errors* [1] *for timber volume by species, 1971*

Species	Growing stock	Sawtimber
	– Percent –	
Softwood:		
Shortleaf pine	11	15
Loblolly pine	26	35
Virginia pine	9	11
Pitch pine	22	26
Table-Mountain pine	39	42
White pine	18	19
Hemlock	28	35
Redcedar	17	25
All softwoods	5.6	7.6
Hardwood:		
White oak (*Quercus alba*)	8	10
Other white oaks	7	9
Northern red oak	9	12
Other red oaks	7	9
Hickory	8	10
Hard maple	29	48
Soft maple	10	17
Beech	20	24
Sweetgum	22	29
Blackgum	12	19
White ash	16	22
Sycamore	40	43
Basswood	38	36
Yellow-poplar	11	13
Black walnut	22	24
Black cherry	27	(2)
Magnolia (*Magnolia* spp.)	27	41
American elm	25	35
Other elms	28	37
Other hardwoods	17	32
All hardwoods	3.8	5.3
All species	2.8	4.3

[1] By random-sampling formula.
[2] Exceeds 50 percent.

Because of differences in standards of tree measurement, meaningful comparisons cannot be made between the estimates in this report and those contained in earlier publications on Tennessee. In table 3, changes between the two surveys are summarized in terms of 1971 measurement standards.

Table 3. *Change in forest resource since 1961*

Item	Change [1]
	Percent
Commercial forest land	– 1.9
Growing-stock volume:	
Softwood	+ 28
Hardwood	+ 20
All species	+ 23
Sawtimber volume:	
Softwood	+ 15
Hardwood	+ 18
All species	+ 17

[1] Based on 1971 measurement standards.

It is anticipated that data for other counties of Tennessee will be published as field work progresses. A Statewide interpretive report will be issued when all counties have been inventoried; it will include an evaluation of timber trends since the previous survey of 1961.

In the tables that follow, sawtimber volume is shown in International ¼-inch rule except when Doyle or Scribner rule is indicated.

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.

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

Sawtimber trees.—Live trees that are of commercial species, contain at least a 12-foot saw log, and meet regional specifications for freedom from defect. Softwoods must be at least 9.0 inches in diameter at breast height and hardwoods at least 11.0 inches.

Sawtimber volume.—Net volume of the saw-log portion of live sawtimber in board feet, International ¼-inch rule, unless otherwise indicated.

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 seedling and saplings.

Table 4. *Commercial forest land by ownership class and county, 1971*

County	All ownerships	National forest	Other public	Forest industry	Farmer	Misc. private
			Thousand acres			
Anderson	140.3	...	10.1	...	30.3	99.9
Blount	125.6	...	.2	17.9	94.9	12.6
Bradley	107.2	...	.2	26.6	39.9	40.5
Carter	145.0	78.9	(1/)	...	23.0	43.1
Claiborne	166.4	...	6.4	...	95.3	64.7
Cocke	168.0	42.2	.1	...	72.3	53.4
Grainger	94.6	...	3.4	4.3	81.1	5.8
Greene	135.2	35.7	.1	...	92.9	6.5
Hamblen	25.2	...	1.9	...	18.8	4.5
Hamilton	180.2	...	13.8	5.3	57.9	103.2
Hancock	85.4	...	...	...	84.8	.6
Hawkins	167.4	...	6.4	5.4	118.0	37.6
Jefferson	58.5	...	.9	...	49.1	8.5
Johnson	124.2	49.0	.1	...	32.2	42.9
Knox	106.2	...	1.7	...	41.0	63.5
Loudon	53.3	...	1.0	4.1	28.5	19.7
McMinn	145.5	2.1	.5	22.2	55.6	65.1
Meigs	80.6	...	1.6	12.3	43.1	23.6
Monroe	295.8	138.1	.8	17.3	86.4	53.2
Polk	227.7	148.8	2.3	5.4	21.7	49.5
Rhea	134.6	...	...	36.1	71.8	26.7
Roane	131.2	...	27.7	...	73.3	30.2
Sevier	159.2	...	.8	...	70.9	87.5
Sullivan	109.2	36.9	2.9	...	29.2	40.2
Unicoi	94.4	51.5	.1	11.8	...	31.0
Union	84.6	...	28.5	...	23.3	32.8
Washington	61.6	16.5	(1/)	...	33.4	11.7
All counties	3,407.1	599.7	111.5	168.7	1,468.7	1,058.5

1/ Negligible.

Table 5. *Metric area of commercial forest land by ownership class and county, 1971*

County	All ownerships	National forest	Other public	Forest industry	Farmer	Misc. private
			Thousand hectares			
Anderson	56.8	...	4.1	...	12.3	40.4
Blount	50.8	...	.1	7.2	38.4	5.1
Bradley	43.4	...	.1	10.8	16.1	16.4
Carter	58.7	31.9	(1/)	...	9.3	17.5
Claiborne	67.3	...	2.6	...	38.5	26.2
Cocke	68.0	17.1	(1/)	...	29.3	21.6
Grainger	38.3	...	1.4	1.7	32.9	2.3
Greene	54.7	14.5	(1/)	...	37.6	2.6
Hamblen	10.2	...	.8	...	7.6	1.8
Hamilton	72.9	...	5.6	2.1	23.4	41.8
Hancock	34.6	...	...	...	34.4	.2
Hawkins	67.7	...	2.6	2.2	47.7	15.2
Jefferson	23.7	...	.4	...	19.9	3.4
Johnson	50.3	19.9	(1/)	...	13.0	17.4
Knox	43.0	...	.7	...	16.6	25.7
Loudon	21.6	...	.4	1.7	11.5	8.0
McMinn	58.9	.8	.2	9.0	22.5	26.4
Meigs	32.6	...	.6	5.0	17.4	9.6
Monroe	119.7	55.9	.4	7.0	34.9	21.5
Polk	92.1	60.2	.9	2.2	8.8	20.0
Rhea	54.5	...	...	14.6	29.1	10.8
Roane	53.1	...	11.2	...	29.7	12.2
Sevier	64.4	...	.3	...	28.7	35.4
Sullivan	44.2	14.9	1.2	...	11.8	16.3
Unicoi	38.2	20.8	(1/)	4.8	...	12.6
Union	34.2	...	11.5	...	9.4	13.3
Washington	24.9	6.7	(1/)	...	13.5	4.7
All counties	1,378.8	242.7	45.1	68.3	594.3	428.4

1/ Negligible.

Table 6. *Commercial forest land by forest type and county, 1971*

County	All types	White pine	Loblolly-shortleaf pine	Oak-pine	Cedar	Oak-hickory	Maple-beech-birch
			Thousand acres				
Anderson	140.3	...	6.1	18.3	12.2	103.7	...
Blount	125.6	6.0	12.0	47.8	...	59.8	...
Bradley	107.2	...	67.0	...	...	40.2	...
Carter	145.0	5.8	11.6	11.6	...	110.2	5.8
Claiborne	166.4	...	6.4	12.8	12.8	128.0	6.4
Cocke	168.0	...	11.2	39.2	...	112.0	5.6
Grainger	94.6	...	...	...	8.6	86.0	...
Greene	135.2	...	5.2	10.4	10.4	109.2	...
Hamblen	25.2	...	6.3	...	6.3	12.6	...
Hamilton	180.2	...	21.2	58.3	...	100.7	...
Hancock	85.4	...	...	...	...	85.4	...
Hawkins	167.4	...	21.6	16.2	10.8	118.8	...
Jefferson	58.5	...	13.5	4.5	13.5	27.0	...
Johnson	124.2	...	...	16.2	...	102.6	5.4
Knox	106.2	...	11.8	17.7	11.8	64.9	...
Loudon	53.3	...	12.3	12.3	4.1	24.6	...
McMinn	145.5	...	56.0	22.3	5.6	61.6	...
Meigs	80.6	...	12.4	31.0	...	37.2	...
Monroe	295.8	5.8	92.8	58.0	5.8	121.8	11.6
Polk	227.7	...	92.3	70.6	...	64.8	...
Rhea	134.6	...	15.5	36.3	...	82.8	...
Roane	131.2	...	16.4	16.4	8.2	90.2	...
Sevier	159.2	...	36.0	41.0	...	82.2	...
Sullivan	109.2	4.2	16.8	4.2	4.2	75.6	4.2
Unicoi	94.4	5.9	...	23.6	...	59.0	5.9
Union	84.6	...	9.4	23.5	14.1	37.6	...
Washington	61.6	...	...	16.8	...	44.8	...
All counties	3,407.1	27.7	553.8	609.0	128.4	2,043.3	44.9

Table 7. *Commercial forest land by stand-size class and county, 1971*

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
			Thousand acres		
Anderson	140.3	36.6	42.7	61.0	...
Blount	125.6	36.0	47.8	41.8	...
Bradley	107.2	13.4	80.4	13.4	...
Carter	145.0	75.4	52.2	17.4	...
Claiborne	166.4	38.4	51.2	70.4	6.4
Cocke	168.0	50.4	72.8	44.8	...
Grainger	94.6	30.1	21.5	43.0	...
Greene	135.2	26.0	20.8	88.4	...
Hamblen	25.2	6.3	12.6	6.3	...
Hamilton	180.2	58.3	31.8	90.1	...
Hancock	85.4	18.3	30.5	36.6	...
Hawkins	167.4	27.0	81.0	59.4	...
Jefferson	58.5	13.5	9.0	36.0	...
Johnson	124.2	32.4	64.8	27.0	...
Knox	106.2	29.5	17.7	59.0	...
Loudon	53.3	16.4	16.4	20.5	...
McMinn	145.5	33.6	44.8	67.1	...
Meigs	80.6	6.2	37.2	37.2	...
Monroe	295.8	81.2	98.6	116.0	...
Polk	227.7	102.7	76.1	48.9	...
Rhea	134.6	15.5	51.9	67.2	...
Roane	131.2	20.5	36.9	73.8	...
Sevier	159.2	36.0	51.3	71.9	...
Sullivan	109.2	29.4	29.4	50.4	...
Unicoi	94.4	47.2	17.7	29.5	...
Union	84.6	28.2	37.6	18.8	...
Washington	61.6	28.0	16.8	16.8	...
All counties	3,407.1	936.5	1,151.5	1,312.7	6.4

Table 8. *Commercial forest land by site class and county, 1971*

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			
Anderson	140.3	...	12.2	24.4	67.1	36.6
Blount	125.6	12.0	12.0	11.9	71.7	18.0
Bradley	107.2	...	...	13.4	67.0	26.8
Carter	145.0	...	...	23.2	63.8	58.0
Claiborne	166.4	...	...	51.2	76.8	38.4
Cocke	168.0	...	5.6	28.0	95.2	39.2
Grainger	94.6	...	4.3	25.8	25.8	38.7
Greene	135.2	...	10.4	15.6	57.2	52.0
Hamblen	25.2	...	...	6.3	18.9	...
Hamilton	180.2	...	...	26.5	121.9	31.8
Hancock	85.4	...	...	18.3	48.8	18.3
Hawkins	167.4	...	10.8	16.2	86.4	54.0
Jefferson	58.5	...	...	13.5	18.0	27.0
Johnson	124.2	...	...	16.2	81.0	27.0
Knox	106.2	...	11.8	29.5	47.2	17.7
Loudon	53.3	...	4.1	4.1	36.9	8.2
McMinn	145.5	...	11.2	33.6	78.3	22.4
Meigs	80.6	...	6.2	6.2	62.0	6.2
Monroe	295.8	5.8	11.6	75.4	127.6	75.4
Polk	227.7	5.4	16.4	64.9	103.1	37.9
Rhea	134.6	...	...	30.8	62.2	41.6
Roane	131.2	...	...	32.8	86.1	12.3
Sevier	159.2	...	...	20.5	66.9	71.8
Sullivan	109.2	4.2	...	16.8	50.4	37.8
Unicoi	94.4	...	...	29.5	53.1	11.8
Union	84.6	...	...	28.2	37.6	18.8
Washington	61.6	...	...	16.8	28.0	16.8
All counties	3,407.1	27.4	116.6	679.6	1,739.0	844.5

Table 9. *Cordage of growing stock on commercial forest land by species group and county, 1971*

County	All species	Softwood			Hardwood			
		Total	Southern pine	Other	Total	Oak	Gum	Other
	Thousand cords							
Anderson	1,507	311	242	69	1,196	645	43	508
Blount	2,030	872	773	99	1,158	725	15	418
Bradley	1,392	865	834	31	527	236	31	260
Carter	2,450	496	119	377	1,954	1,058	30	866
Claiborne	1,644	237	234	3	1,407	654	48	705
Cocke	2,463	521	313	208	1,942	1,133	12	797
Grainger	1,242	160	123	37	1,082	503	46	533
Greene	1,465	243	176	67	1,222	594	15	613
Hamblen	461	88	60	28	373	266	...	107
Hamilton	2,135	881	881	...	1,254	827	22	405
Hancock	920	32	25	7	888	304	18	566
Hawkins	2,112	357	340	17	1,755	982	33	740
Jefferson	587	77	49	28	510	248	19	243
Johnson	1,812	255	67	188	1,557	866	28	663
Knox	1,325	392	377	15	933	470	31	432
Loudon	616	212	195	17	404	291	12	101
McMinn	1,706	716	696	20	990	437	82	471
Meigs	907	404	391	13	503	285	68	150
Monroe	4,541	2,048	1,873	175	2,493	1,339	96	1,058
Polk	3,834	2,144	1,829	315	1,690	1,095	65	530
Rhea	1,367	219	167	52	1,148	677	120	351
Roane	1,304	312	295	17	992	579	76	337
Sevier	1,826	644	613	31	1,182	667	33	482
Sullivan	1,050	229	112	117	821	489	4	328
Unicoi	1,320	348	71	277	972	397	16	559
Union	1,115	299	275	24	816	424	22	370
Washington	1,000	275	104	171	725	467	18	240
All counties	44,131	13,637	11,234	2,403	30,494	16,658	1,003	12,833

Table 10. *Growing-stock volume on commercial forest land by species group and county, 1971*

County	All species	Softwood			Hardwood			
		Total	Southern pine	Other	Total	Oak	Gum	Other
	Million cubic feet							
Anderson	103.4	23.3	18.1	5.2	80.1	43.2	2.9	34.0
Blount	143.0	65.4	58.0	7.4	77.6	48.6	1.0	28.0
Bradley	100.2	64.9	62.6	2.3	35.3	15.8	2.1	17.4
Carter	168.1	37.2	8.9	28.3	130.9	70.9	2.0	58.0
Claiborne	112.1	17.8	17.6	.2	94.3	43.8	3.2	47.3
Cocke	169.2	39.1	23.5	15.6	130.1	75.9	.8	53.4
Grainger	84.5	12.0	9.2	2.8	72.5	33.7	3.1	35.7
Greene	100.1	18.2	13.2	5.0	81.9	39.8	1.0	41.1
Hamblen	31.6	6.6	4.5	2.1	25.0	17.8	...	7.2
Hamilton	150.1	66.1	66.1	...	84.0	55.4	1.5	27.1
Hancock	61.9	2.4	1.9	.5	59.5	20.4	1.2	37.9
Hawkins	144.4	26.8	25.5	1.3	117.6	65.8	2.2	49.6
Jefferson	40.0	5.8	3.7	2.1	34.2	16.6	1.3	16.3
Johnson	123.4	19.1	5.0	14.1	104.3	58.0	1.9	44.4
Knox	91.9	29.4	28.3	1.1	62.5	31.5	2.1	28.9
Loudon	43.0	15.9	14.6	1.3	27.1	19.5	.8	6.8
McMinn	120.0	53.7	52.2	1.5	66.3	29.3	5.5	31.5
Meigs	64.0	30.3	29.3	1.0	33.7	19.1	4.5	10.1
Monroe	320.6	153.6	140.5	13.1	167.0	89.7	6.4	70.9
Polk	274.0	160.8	137.2	23.6	113.2	73.4	4.3	35.5
Rhea	93.3	16.4	12.5	3.9	76.9	45.4	8.0	23.5
Roane	89.9	23.4	22.1	1.3	66.5	38.8	5.1	22.6
Sevier	127.5	48.3	46.0	2.3	79.2	44.7	2.2	32.3
Sullivan	72.2	17.2	8.4	8.8	55.0	32.7	.3	22.0
Unicoi	91.2	26.1	5.3	20.8	65.1	26.6	1.1	37.4
Union	77.1	22.4	20.6	1.8	54.7	28.4	1.5	24.8
Washington	69.2	20.6	7.8	12.8	48.6	31.3	1.2	16.1
All counties	3,065.9	1,022.8	842.6	180.2	2,043.1	1,116.1	67.2	859.8

Table 11. *Metric volume of growing stock on commercial forest land by species group and county, 1971*

County	All species	Softwood			Hardwood			
		Total	Southern pine	Other	Total	Oak	Gum	Other
	Thousand cubic meters							
Anderson	2,928	660	513	147	2,268	1,223	82	963
Blount	4,049	1,852	1,642	210	2,197	1,376	28	793
Bradley	2,837	1,838	1,773	65	999	447	59	493
Carter	4,759	1,053	251	802	3,706	2,008	57	1,641
Claiborne	3,174	504	498	6	2,670	1,240	91	1,339
Cocke	4,791	1,107	665	442	3,684	2,149	23	1,512
Grainger	2,393	340	261	79	2,053	954	88	1,011
Greene	2,835	516	374	142	2,319	1,127	28	1,164
Hamblen	895	187	128	59	708	504	...	204
Hamilton	4,250	1,872	1,872	...	2,378	1,569	42	767
Hancock	1,753	68	54	14	1,685	578	34	1,073
Hawkins	4,089	759	722	37	3,330	1,863	62	1,405
Jefferson	1,133	164	105	59	969	470	37	462
Johnson	3,494	541	142	399	2,953	1,642	54	1,257
Knox	2,602	833	802	31	1,769	892	59	818
Loudon	1,218	450	413	37	768	552	23	193
McMinn	3,399	1,521	1,478	43	1,878	830	156	892
Meigs	1,812	858	830	28	954	541	127	286
Monroe	9,079	4,349	3,978	371	4,730	2,541	181	2,008
Polk	7,759	4,553	3,884	669	3,206	2,079	122	1,005
Rhea	2,642	464	354	110	2,178	1,286	227	665
Roane	2,546	663	626	37	1,883	1,099	144	640
Sevier	3,610	1,368	1,303	65	2,242	1,265	62	915
Sullivan	2,044	487	238	249	1,557	926	8	623
Unicoi	2,583	739	150	589	1,844	753	32	1,059
Union	2,183	634	583	51	1,549	804	42	703
Washington	1,960	583	221	362	1,377	886	35	456
All counties	86,817	28,963	23,860	5,103	57,854	31,604	1,903	24,347

Table 12. *Sawtimber volume on commercial forest land by species group and county, 1971*

County	All species	Softwood			Hardwood			
		Total	Southern pine	Other	Total	Oak	Gum	Other
	Million board feet							
Anderson	273.8	73.5	58.0	15.5	200.3	112.8	9.0	78.5
Blount	415.1	187.0	160.7	26.3	228.1	163.8	...	64.3
Bradley	126.5	63.3	59.5	3.8	63.2	27.4	...	35.8
Carter	439.0	143.0	11.4	131.6	296.0	173.5	7.2	115.3
Claiborne	264.6	38.0	37.3	.7	226.6	108.0	6.2	112.4
Cocke	447.7	141.3	68.2	73.1	306.4	186.4	1.8	118.2
Grainger	233.2	30.1	29.1	1.0	203.1	104.8	5.6	92.7
Greene	307.8	52.6	35.2	17.4	255.2	138.8	2.4	114.0
Hamblen	72.2	5.3	2.4	2.9	66.9	54.3	...	12.6
Hamilton	450.8	217.7	217.7	...	233.1	163.1	3.6	66.4
Hancock	175.9	8.9	7.6	1.3	167.0	71.7	1.5	93.8
Hawkins	357.0	43.0	43.0	...	314.0	213.3	2.3	98.4
Jefferson	125.0	10.4	8.5	1.9	114.6	64.7	4.2	45.7
Johnson	295.5	73.4	17.3	56.1	222.1	124.2	3.6	94.3
Knox	287.0	59.2	58.5	.7	227.8	126.7	6.6	94.5
Loudon	110.9	23.2	20.1	3.1	87.7	66.9	1.0	19.8
McMinn	275.1	110.2	110.2	...	164.9	87.6	1.3	76.0
Meigs	136.2	53.5	50.8	2.7	82.7	42.7	7.5	32.5
Monroe	885.5	429.2	390.0	39.2	456.3	225.2	8.4	222.7
Polk	764.5	471.0	388.2	82.8	293.5	203.2	8.2	82.1
Rhea	224.7	44.8	32.4	12.4	179.9	115.6	20.0	44.3
Roane	183.1	35.0	32.6	2.4	148.1	86.6	11.4	50.1
Sevier	303.4	106.9	99.1	7.8	196.5	127.7	2.5	66.3
Sullivan	156.3	46.1	16.3	29.8	110.2	73.1	...	37.1
Unicoi	259.8	98.6	19.5	79.1	161.2	83.2	1.9	76.1
Union	178.6	27.3	24.7	2.6	151.3	89.6	5.9	55.8
Washington	181.6	64.4	10.9	53.5	117.2	84.4	3.7	29.1
All counties	7,930.8	2,656.9	2,009.2	647.7	5,273.9	3,119.3	125.8	2,028.8

Table 13. *Sawtimber volume on commercial forest land by species group, diameter class, and county, 1971*

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						
Anderson	273.8	73.5	67.5	6.0	200.3	84.9	115.4
Blount	415.1	187.0	166.1	20.9	228.1	114.4	113.7
Bradley	126.5	63.3	63.3	...	63.2	32.7	30.5
Carter	439.0	143.0	44.6	98.4	296.0	149.4	146.6
Claiborne	264.6	38.0	36.3	1.7	226.6	146.9	79.7
Cocke	447.7	141.3	69.6	71.7	306.4	130.5	175.9
Grainger	233.2	30.1	25.8	4.3	203.1	86.7	116.4
Greene	307.8	52.6	31.5	21.1	255.2	87.9	167.3
Hamblen	72.2	5.3	5.3	...	66.9	35.7	31.2
Hamilton	450.8	217.7	158.4	59.3	233.1	107.9	125.2
Hancock	175.9	8.9	5.8	3.1	167.0	79.0	88.0
Hawkins	357.0	43.0	41.1	1.9	314.0	115.8	198.2
Jefferson	125.0	10.4	10.4	...	114.6	53.6	61.0
Johnson	295.5	73.4	27.6	45.8	222.1	111.3	110.8
Knox	287.0	59.2	48.9	10.3	227.8	52.4	175.4
Loudon	110.9	23.2	21.3	1.9	87.7	32.1	55.6
McMinn	275.1	110.2	78.7	31.5	164.9	83.4	81.5
Meigs	136.2	53.5	51.7	1.8	82.7	45.0	37.7
Monroe	885.5	429.2	310.6	118.6	456.3	208.9	247.4
Polk	764.5	471.0	394.4	76.6	293.5	155.4	138.1
Rhea	224.7	44.8	33.0	11.8	179.9	94.6	85.3
Roane	183.1	35.0	31.8	3.2	148.1	74.1	74.0
Sevier	303.4	106.9	90.9	16.0	196.5	83.4	113.1
Sullivan	156.3	46.1	28.5	17.6	110.2	62.6	47.6
Unicoi	259.8	98.6	61.1	37.5	161.2	64.5	96.7
Union	178.6	27.3	23.2	4.1	151.3	54.8	96.5
Washington	181.6	64.4	37.7	26.7	117.2	39.5	77.7
All counties	7,930.8	2,656.9	1,965.1	691.8	5,273.9	2,387.4	2,886.5

Table 14. *Sawtimber volume in Scribner rule on commercial forest land by species group and county, 1971*

County	All species	Softwood			Hardwood			
		Total	Southern pine	Other	Total	Oak	Gum	Other
		Million board feet						
Anderson	234.5	59.1	46.0	13.1	175.4	98.0	7.9	69.5
Blount	359.0	155.7	133.6	22.1	203.3	146.4	...	56.9
Bradley	104.8	51.0	47.9	3.1	53.8	22.7	...	31.1
Carter	384.6	124.2	9.1	115.1	260.4	153.9	6.2	100.3
Claiborne	227.3	31.0	30.5	.5	196.3	94.0	5.1	97.2
Cocke	391.8	120.3	56.9	63.4	271.5	165.4	1.5	104.6
Grainger	205.8	25.2	24.5	.7	180.6	94.0	4.8	81.8
Greene	273.3	44.8	29.7	15.1	228.5	125.6	2.2	100.7
Hamblen	64.3	4.6	2.3	2.3	59.7	48.8	...	10.9
Hamilton	386.9	182.1	182.1	...	204.8	143.9	3.3	57.6
Hancock	154.3	7.1	6.2	.9	147.2	63.4	1.3	82.5
Hawkins	318.0	36.2	36.2	...	281.8	192.5	1.7	87.6
Jefferson	110.6	8.5	7.2	1.3	102.1	57.7	3.6	40.8
Johnson	259.6	63.6	14.1	49.5	196.0	110.4	3.2	82.4
Knox	253.3	49.7	49.2	.5	203.6	113.9	6.1	83.6
Loudon	96.9	19.2	16.5	2.7	77.7	59.4	.8	17.5
McMinn	237.2	91.1	91.1	...	146.1	77.9	1.1	67.1
Meigs	117.2	43.9	41.8	2.1	73.3	37.5	6.6	29.2
Monroe	765.9	362.2	327.4	34.8	403.7	198.4	7.2	198.1
Polk	656.1	394.9	325.3	69.6	261.2	180.5	7.2	73.5
Rhea	195.5	38.0	27.5	10.5	157.5	101.3	17.3	38.9
Roane	158.1	27.8	26.0	1.8	130.3	76.4	9.9	44.0
Sevier	263.4	88.8	82.2	6.6	174.6	113.1	2.2	59.3
Sullivan	135.0	38.4	12.7	25.7	96.6	64.3	...	32.3
Unicoi	225.5	82.6	16.3	66.3	142.9	74.3	1.5	67.1
Union	154.0	21.8	19.7	2.1	132.2	78.9	5.0	48.3
Washington	158.2	53.8	8.2	45.6	104.4	75.8	3.2	25.4
All counties	6,891.1	2,225.6	1,670.2	555.4	4,665.5	2,768.4	108.9	1,788.2

Table 15. *Sawtimber volume in Scribner rule on commercial forest land by species group, diameter class, and county, 1971*

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						
Anderson	234.5	59.1	53.7	5.4	175.4	72.1	103.3
Blount	359.0	155.7	137.6	18.1	203.3	100.2	103.1
Bradley	104.8	51.0	51.0	...	53.8	26.6	27.2
Carter	384.6	124.2	36.3	87.9	260.4	128.0	132.4
Claiborne	227.3	31.0	29.6	1.4	196.3	124.8	71.5
Cocke	391.8	120.3	56.9	63.4	271.5	111.7	159.8
Grainger	205.8	25.2	21.4	3.8	180.6	74.5	106.1
Greene	273.3	44.8	25.8	19.0	228.5	76.8	151.7
Hamblen	64.3	4.6	4.6	...	59.7	31.3	28.4
Hamilton	386.9	182.1	129.9	52.2	204.8	91.8	113.0
Hancock	154.3	7.1	4.4	2.7	147.2	68.3	78.9
Hawkins	318.0	36.2	34.6	1.6	281.8	100.0	181.8
Jefferson	110.6	8.5	8.5	...	102.1	46.4	55.7
Johnson	259.6	63.6	22.6	41.0	196.0	95.8	100.2
Knox	253.3	49.7	40.6	9.1	203.6	44.5	159.1
Loudon	96.9	19.2	17.5	1.7	77.7	26.9	50.8
McMinn	237.2	91.1	63.2	27.9	146.1	71.7	74.4
Meigs	117.2	43.9	42.3	1.6	73.3	39.2	34.1
Monroe	765.9	362.2	256.5	105.7	403.7	178.9	224.8
Polk	656.1	394.9	327.4	67.5	261.2	134.5	126.7
Rhea	195.5	38.0	27.5	10.5	157.5	80.0	77.5
Roane	158.1	27.8	25.0	2.8	130.3	63.1	67.2
Sevier	263.4	88.8	74.6	14.2	174.6	71.1	103.5
Sullivan	135.0	38.4	22.5	15.9	96.6	53.7	42.9
Unicoi	225.5	82.6	49.5	33.1	142.9	55.0	87.9
Union	154.0	21.8	18.3	3.5	132.2	44.9	87.3
Washington	158.2	53.8	30.1	23.7	104.4	33.8	70.6
All counties	6,891.1	2,225.6	1,611.9	613.7	4,665.5	2,045.6	2,619.9

Table 16. *Sawtimber volume in Doyle rule on commercial forest land by species group and county, 1971*

County	All species	Softwood			Hardwood			
		Total	Southern pine	Other	Total	Oak	Gum	Other
	Million board feet							
Anderson	170.4	42.5	32.7	9.8	127.9	70.7	5.8	51.4
Blount	269.1	113.7	97.7	16.0	155.4	113.0	...	42.4
Bradley	74.9	37.8	35.3	2.5	37.1	14.5	...	22.6
Carter	287.8	96.1	6.5	89.6	191.7	117.3	4.3	70.1
Claiborne	161.9	23.0	22.5	.5	138.9	65.0	3.2	70.7
Cocke	294.7	89.5	41.5	48.0	205.2	125.9	.9	78.4
Grainger	156.9	18.1	17.5	.6	138.8	73.5	3.1	62.2
Greene	210.8	34.6	23.0	11.6	176.2	100.9	1.8	73.5
Hamblen	49.9	3.7	1.7	2.0	46.2	38.6	...	7.6
Hamilton	289.6	135.4	135.4	...	154.2	109.3	2.5	42.4
Hancock	113.4	5.5	4.7	.8	107.9	47.1	1.0	59.8
Hawkins	251.6	28.2	28.2	...	223.4	155.9	.9	66.6
Jefferson	85.6	7.0	5.7	1.3	78.6	45.1	2.4	31.1
Johnson	193.8	47.8	9.1	38.7	146.0	83.9	2.1	60.0
Knox	198.9	38.5	38.0	.5	160.4	91.7	5.0	63.7
Loudon	73.7	14.0	11.5	2.5	59.7	45.9	.5	13.3
McMinn	178.8	68.2	68.2	...	110.6	59.5	.5	50.6
Meigs	86.7	31.7	30.5	1.2	55.0	28.0	4.7	22.3
Monroe	582.8	274.9	247.3	27.6	307.9	150.7	4.8	152.4
Polk	483.2	284.0	234.5	49.5	199.2	137.1	5.3	56.8
Rhea	144.9	28.7	21.1	7.6	116.2	75.0	12.6	28.6
Roane	116.2	19.8	18.5	1.3	96.4	57.6	6.7	32.1
Sevier	198.9	65.1	60.9	4.2	133.8	86.0	1.8	46.0
Sullivan	98.3	29.6	8.5	21.1	68.7	45.6	...	23.1
Unicoi	168.7	60.9	12.6	48.3	107.8	57.5	.8	49.5
Union	114.1	16.6	15.0	1.6	97.5	60.7	3.2	33.6
Washington	119.4	38.1	5.7	32.4	81.3	61.0	2.2	18.1
All counties	5,175.0	1,653.0	1,233.8	419.2	3,522.0	2,117.0	76.1	1,328.9

Table 17. *Sawtimber volume in Doyle rule on commercial forest land by species group, diameter class, and county, 1971*

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						
Anderson	170.4	42.5	38.0	4.5	127.9	46.8	81.1
Blount	269.1	113.7	100.8	12.9	155.4	71.4	84.0
Bradley	74.9	37.8	37.8	...	37.1	15.6	21.5
Carter	287.8	96.1	25.3	70.8	191.7	84.0	107.7
Claiborne	161.9	23.0	22.1	.9	138.9	83.0	55.9
Cocke	294.7	89.5	40.4	49.1	205.2	73.8	131.4
Grainger	156.9	18.1	15.2	2.9	138.8	50.2	88.6
Greene	210.8	34.6	19.3	15.3	176.2	52.8	123.4
Hamblen	49.9	3.7	3.7	...	46.2	22.8	23.4
Hamilton	289.6	135.4	96.1	39.3	154.2	62.2	92.0
Hancock	113.4	5.5	3.2	2.3	107.9	46.0	61.9
Hawkins	251.6	28.2	27.0	1.2	223.4	68.6	154.8
Jefferson	85.6	7.0	7.0	...	78.6	32.0	46.6
Johnson	193.8	47.8	15.2	32.6	146.0	63.8	82.2
Knox	198.9	38.5	31.2	7.3	160.4	29.5	130.9
Loudon	73.7	14.0	12.7	1.3	59.7	17.4	42.3
McMinn	178.8	68.2	46.9	21.3	110.6	49.4	61.2
Meigs	86.7	31.7	30.6	1.1	55.0	27.1	27.9
Monroe	582.8	274.9	189.7	85.2	307.9	122.0	185.9
Polk	483.2	284.0	232.8	51.2	199.2	92.6	106.6
Rhea	144.9	28.7	20.5	8.2	116.2	52.2	64.0
Roane	116.2	19.8	17.7	2.1	96.4	41.6	54.8
Sevier	198.9	65.1	54.2	10.9	133.8	47.3	86.5
Sullivan	98.3	29.6	16.3	13.3	68.7	34.3	34.4
Unicoi	168.7	60.9	35.6	25.3	107.8	35.7	72.1
Union	114.1	16.6	14.0	2.6	97.5	27.2	70.3
Washington	119.4	38.1	20.1	18.0	81.3	22.8	58.5
All counties	5,175.0	1,653.0	1,173.4	479.6	3,522.0	1,372.1	2,149.9

Table 18. *Growing-stock volume of softwoods and hardwoods on commercial forest land by forest type and county, 1971*

County	All species	Softwood					Hardwood				
		Total	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Other types[1]	Total	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Other types[1]
	Million cubic feet										
Anderson	103.4	23.3	5.9	10.9	4.8	1.7	80.1	...	7.1	72.5	0.5
Blount	143.0	65.4	13.2	28.4	14.2	9.6	77.6	...	20.6	52.3	4.7
Bradley	100.2	64.9	58.1	...	6.8	...	35.3	6.3	...	29.0	...
Carter	168.1	37.2	7.6	7.9	9.7	12.0	130.9	3.5	8.5	104.0	14.9
Claiborne	112.1	17.8	5.6	3.9	8.1	.2	94.3	.2	...	82.8	11.3
Cocke	169.2	39.1	3.1	23.9	12.1	...	130.1	.8	12.1	113.0	4.2
Grainger	84.5	12.0	...	...	8.7	3.3	72.5	...	...	65.2	7.3
Greene	100.1	18.2	1.5	7.1	8.2	1.4	81.9	.3	2.8	78.8	...
Hamblen	31.6	6.6	4.5	...	1.5	.6	25.0	.3	...	21.2	3.5
Hamilton	150.1	66.1	38.9	19.9	7.3	...	84.0	4.8	13.0	66.2	...
Hancock	61.9	2.4	...	...	2.4	...	59.5	...	...	59.5	...
Hawkins	144.4	26.8	12.9	7.2	4.9	1.8	117.6	2.0	3.7	109.1	2.8
Jefferson	40.0	5.8	3.6	.6	.2	1.4	34.2	1.9	...	30.4	1.9
Johnson	123.4	19.1	...	8.8	10.3	...	104.3	...	6.0	91.6	6.7
Knox	91.9	29.4	13.5	8.5	4.8	2.6	62.5	5.0	9.8	46.9	.8
Loudon	43.0	15.9	11.4	2.9	.9	.7	27.1	.8	2.1	24.1	.1
McMinn	120.0	53.7	30.2	15.2	6.7	1.6	66.3	6.2	10.1	50.0	...
Meigs	64.0	30.3	12.5	12.2	5.6	...	33.7	...	9.8	23.9	...
Monroe	320.6	153.6	99.2	28.4	23.2	2.8	167.0	16.4	19.2	96.5	34.9
Polk	274.0	160.8	110.2	44.6	6.0	...	113.2	28.7	48.8	35.7	...
Rhea	93.3	16.4	4.7	7.2	4.5	...	76.9	.4	12.5	64.0	...
Roane	89.9	23.4	11.9	3.9	6.3	1.3	66.5	1.0	3.6	59.4	2.5
Sevier	127.5	48.3	17.7	22.4	8.2	...	79.2	8.6	18.4	52.2	...
Sullivan	72.2	17.2	2.3	.4	5.3	9.2	55.0	.4	1.4	48.7	4.5
Unicoi	91.2	26.1	...	17.0	2.7	6.4	65.1	...	10.4	48.1	6.6
Union	77.1	22.4	10.4	8.5	1.7	1.8	54.7	2.0	10.4	41.4	.9
Washington	69.2	20.6	...	15.5	5.1	...	48.6	...	13.0	35.6	...
All counties	3,065.9	1,022.8	478.9	305.3	180.2	58.4	2,043.1	89.6	243.3	1,602.1	108.1

[1] Includes white pine, maple-beech-birch, and cedar types.

Table 19. *Sawtimber volume of softwoods and hardwoods on commercial forest land by forest type and county, 1971*

County	All species	Softwood					Hardwood				
		Total	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Other types[1]	Total	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Other types[1]
	Million board feet										
Anderson	273.8	73.5	19.7	37.2	15.4	1.2	200.3	...	24.4	175.9	...
Blount	415.1	187.0	14.7	88.7	53.0	30.6	228.1	...	74.4	141.1	12.6
Bradley	126.5	63.3	49.3	...	14.0	...	63.2	2.7	...	60.5	...
Carter	439.0	143.0	11.7	32.5	37.7	61.1	296.0	...	18.3	252.4	25.3
Claiborne	264.6	38.0	3.0	6.9	27.4	.7	226.6	...	...	194.0	32.6
Cocke	447.7	141.3	9.0	87.9	44.4	...	306.4	3.4	24.8	269.5	8.7
Grainger	233.2	30.1	...	...	25.1	5.0	203.1	...	...	188.7	14.4
Greene	307.8	52.6	...	13.6	38.5	.5	255.2	1.3	5.7	248.2	...
Hamblen	72.2	5.3	2.4	...	2.5	.4	66.9	...	...	51.8	15.1
Hamilton	450.8	217.7	155.4	37.5	24.8	...	233.1	7.5	30.1	195.5	...
Hancock	175.9	8.9	...	...	8.9	...	167.0	...	...	167.0	...
Hawkins	357.0	43.0	9.5	17.7	13.3	2.5	314.0	.9	1.5	305.3	6.3
Jefferson	125.0	10.4	7.9	.6	...	1.9	114.6	3.5	...	108.7	2.4
Johnson	295.5	73.4	...	37.6	35.8	...	222.1	...	17.0	181.8	23.3
Knox	287.0	59.2	19.1	29.5	5.6	5.0	227.8	12.2	40.1	173.4	2.1
Loudon	110.9	23.2	11.9	9.0	.7	1.6	87.7	1.2	3.3	83.2	...
McMinn	275.1	110.2	40.9	44.5	23.6	1.2	164.9	13.0	22.8	129.1	...
Meigs	136.2	53.5	3.3	27.5	22.7	...	82.7	...	8.4	74.3	...
Monroe	885.5	429.2	264.8	82.1	79.3	3.0	456.3	37.3	39.1	236.5	143.4
Polk	764.5	471.0	295.7	147.8	27.5	...	293.5	74.0	124.5	95.0	...
Rhea	224.7	44.8	2.2	25.5	17.1	...	179.9	1.5	27.6	150.8	...
Roane	183.1	35.0	15.0	4.9	14.3	.8	148.1	3.4	10.0	128.5	6.2
Sevier	303.4	106.9	33.3	51.1	22.5	...	196.5	22.5	27.1	146.9	...
Sullivan	156.3	46.1	4.8	.5	11.9	28.9	110.2	...	3.1	99.9	7.2
Unicoi	259.8	98.6	...	65.7	8.2	24.7	161.2	...	29.3	128.3	3.6
Union	178.6	27.3	13.0	7.9	4.0	2.4	151.3	4.9	19.6	124.9	1.9
Washington	181.6	64.4	...	48.5	15.9	...	117.2	...	38.3	78.9	...
All counties	7,930.8	2,656.9	986.6	904.7	594.1	171.5	5,273.9	189.3	589.4	4,190.1	305.1

[1] Includes white pine, maple-beech-birch, and cedar types.

Table 20. *Growing-stock volume of softwoods and hardwoods on commercial forest land by stand-size class and county, 1971*

County	All species	Softwood				Hardwood				
		Total	Sawtimber	Poletimber	Sapling and seedling	Total	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
	Million cubic feet									
Anderson	103.4	23.3	10.7	2.5	10.1	80.1	32.5	36.2	11.4	...
Blount	143.0	65.4	29.9	23.0	12.5	77.6	42.5	28.5	6.6	...
Bradley	100.2	64.9	...	56.5	8.4	35.3	15.8	17.7	1.8	...
Carter	168.1	37.2	28.5	8.1	.6	130.9	74.9	50.4	5.6	...
Claiborne	112.1	17.8	6.1	7.4	4.3	94.3	37.3	41.8	15.0	0.2
Cocke	169.2	39.1	18.8	13.3	7.0	130.1	60.3	64.7	5.1	...
Grainger	84.5	12.0	3.6	4.6	3.8	72.5	43.2	23.4	5.9	...
Greene	100.1	18.2	6.6	4.0	7.6	81.9	36.7	14.3	30.9	...
Hamblen	31.6	6.6	...	6.0	.6	25.0	16.2	5.3	3.5	...
Hamilton	150.1	66.1	34.5	12.4	19.2	84.0	51.3	14.0	18.7	...
Hancock	61.9	2.4	2.0	...	.4	59.5	29.3	24.3	5.9	...
Hawkins	144.4	26.8	.8	18.7	7.3	117.6	48.5	52.5	16.6	...
Jefferson	40.0	5.8	...	.2	5.6	34.2	18.4	8.9	6.9	...
Johnson	123.4	19.1	11.6	5.9	1.6	104.3	31.0	69.1	4.2	...
Knox	91.9	29.4	10.7	7.6	11.1	62.5	39.1	6.6	16.8	...
Loudon	43.0	15.9	3.3	10.6	2.0	27.1	18.5	7.6	1.0	...
McMinn	120.0	53.7	15.4	22.6	15.7	66.3	40.7	9.0	16.6	...
Meigs	64.0	30.3	1.4	24.1	4.8	33.7	10.3	16.5	6.9	...
Monroe	320.6	153.6	66.7	58.7	28.2	167.0	75.4	57.1	34.5	...
Polk	274.0	160.8	97.8	57.5	5.5	113.2	74.6	28.1	10.5	...
Rhea	93.3	16.4	2.9	5.5	8.0	76.9	14.8	35.4	26.7	...
Roane	89.9	23.4	5.0	11.4	7.0	66.5	17.3	25.2	24.0	...
Sevier	127.5	48.3	18.6	18.9	10.8	79.2	34.4	32.9	11.9	...
Sullivan	72.2	17.2	10.5	4.0	2.7	55.0	23.1	24.7	7.2	...
Unicoi	91.2	26.1	22.2	.9	3.0	65.1	44.0	14.2	6.9	...
Union	77.1	22.4	2.0	18.6	1.8	54.7	35.4	15.7	3.6	...
Washington	69.2	20.6	14.8	5.3	.5	48.6	31.7	10.7	6.2	...
All counties	3,065.9	1,022.8	424.4	408.3	190.1	2,043.1	997.2	734.8	310.9	.2

Table 21. *Sawtimber volume of softwoods and hardwoods on commercial forest land by stand-size class and county, 1971*

County	All species	Softwood				Hardwood				
		Total	Sawtimber	Poletimber	Sapling and seedling	Total	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
	Million board feet									
Anderson	273.8	73.5	38.6	7.3	27.6	200.3	109.4	63.1	27.8	...
Blount	415.1	187.0	110.0	39.8	37.2	228.1	157.1	65.7	5.3	...
Bradley	126.5	63.3	...	54.3	9.0	63.2	39.0	24.2	...	...
Carter	439.0	143.0	127.4	15.1	.5	296.0	217.2	65.6	13.2	...
Claiborne	264.6	38.0	24.6	5.4	8.0	226.6	112.4	89.1	24.2	0.9
Cocke	447.7	141.3	86.7	33.1	21.5	306.4	194.8	102.7	8.9	...
Grainger	233.2	30.1	17.4	8.6	4.1	203.1	127.4	58.4	17.3	...
Greene	307.8	52.6	35.7	4.2	12.7	255.2	136.7	31.0	87.5	...
Hamblen	72.2	5.3	...	4.9	.4	66.9	42.8	9.0	15.1	...
Hamilton	450.8	217.7	150.1	23.0	44.6	233.1	171.7	19.4	42.0	...
Hancock	175.9	8.9	8.9	...	...	167.0	92.8	63.9	10.3	...
Hawkins	357.0	43.0	3.1	28.0	11.9	314.0	185.7	90.0	38.3	...
Jefferson	125.0	10.4	...	...	10.4	114.6	69.1	28.2	17.3	...
Johnson	295.5	73.4	48.0	21.2	4.2	222.1	107.7	113.5	.9	...
Knox	287.0	59.2	20.1	6.0	33.1	227.8	169.2	10.0	48.6	...
Loudon	110.9	23.2	9.7	11.1	2.4	87.7	66.1	19.8	1.8	...
McMinn	275.1	110.2	65.5	25.8	18.9	164.9	123.6	11.5	29.8	...
Meigs	136.2	53.5	7.3	33.5	12.7	82.7	42.5	21.4	18.8	...
Monroe	885.5	429.2	239.4	125.2	64.6	456.3	271.0	104.7	80.6	...
Polk	764.5	471.0	350.7	109.5	10.8	293.5	230.1	45.0	18.4	...
Rhea	224.7	44.8	10.8	11.1	22.9	179.9	53.9	65.4	60.6	...
Roane	183.1	35.0	16.6	8.0	10.4	148.1	51.8	38.7	57.6	...
Sevier	303.4	106.9	56.9	28.9	21.1	196.5	120.2	47.6	28.7	...
Sullivan	156.3	46.1	34.1	6.7	5.3	110.2	60.1	37.5	12.6	...
Unicoi	259.8	98.6	84.4	1.5	12.7	161.2	128.2	8.0	25.0	...
Union	178.6	27.3	4.6	20.3	2.4	151.3	125.0	20.8	5.5	...
Washington	181.6	64.4	53.5	10.1	.8	117.2	96.8	17.5	2.9	...
All counties	7,930.8	2,656.9	1,604.1	642.6	410.2	5,273.9	3,302.3	1,271.7	699.0	.9

Table 22. *Growing-stock volume on commercial forest land by species and diameter classes, 1971* 1/

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	311.3	52.9	84.1	73.8	45.2	28.2	16.1	8.8	2.2	...	...
Loblolly pine	86.1	33.2	28.2	8.9	10.3	1.4	1.8	.8	.8	0.7	...
Virginia pine	364.8	76.9	91.7	83.3	67.2	31.7	7.4	4.5	1.5	.6	...
Pitch pine	70.3	12.6	10.6	11.5	7.8	11.6	5.7	6.0	4.1	.4	...
Table-Mountain pine	10.1	1.4	2.9	1.6	1.8	1.4	1.0	...	...	...	...
White pine	127.6	5.2	10.4	17.8	15.0	20.2	15.7	15.7	7.9	16.4	3.3
Hemlock	27.7	1.6	4.8	2.4	3.9	3.8	4.5	2.1	.6	3.1	.9
Redcedar	24.9	8.1	9.4	4.1	2.2	.5	.2	.3	.1	...	...
Total	1,022.8	191.9	242.1	203.4	153.4	98.8	52.4	38.2	17.2	21.2	4.2
Hardwood:											
White oak (*Quercus alba*)	163.6	12.8	21.6	24.7	21.3	24.2	18.1	15.3	6.5	18.7	.4
Other white oaks	414.3	43.1	54.3	59.3	66.3	61.5	46.5	33.5	25.5	21.1	3.2
Northern red oak	156.5	13.1	14.4	23.9	18.4	23.8	16.1	13.5	10.5	18.9	3.9
Other red oaks	381.7	33.1	59.4	64.1	57.2	54.4	51.2	24.7	14.9	20.0	2.7
Hickory	239.7	32.8	36.2	39.9	38.6	30.0	25.6	15.8	7.6	12.7	.5
Hard maple	26.2	2.2	2.7	5.4	.7	4.5	2.2	2.3	2.5	3.7	...
Soft maple	101.1	26.2	27.5	17.5	15.5	3.9	3.5	3.9	1.7	1.4	...
Beech	31.1	2.1	6.7	4.6	3.5	3.3	2.1	2.3	2.5	4.0	...
Sweetgum	26.5	5.7	3.6	5.4	5.4	2.8	1.4	1.0	.3	.9	...
Blackgum	40.7	2.5	11.5	7.6	6.6	5.6	1.4	1.7	1.8	2.0	...
White ash	27.1	3.4	5.9	4.4	3.7	3.0	3.2	1.6	1.3	.6	...
Sycamore	11.2	.4	.8	1.3	1.5	2.7	.7	1.3	.9	1.2	.4
Basswood	20.1	2.1	1.4	3.0	2.7	2.7	1.6	3.0	1.2	2.4	...
Yellow-poplar	245.9	19.2	31.8	34.3	43.4	43.1	34.6	18.7	9.8	9.7	1.3
Magnolia (*Magnolia* spp.)	10.1	1.0	2.8	3.2	1.0	1.7	...	.4	...	...	...
Black walnut	20.9	1.7	3.7	4.4	6.6	2.2	1.8	.5	...	...	...
Black cherry	10.1	1.2	4.2	2.0	.9	1.4	...	.4	...	...	...
American elm	7.6	1.4	1.5	1.4	.7	.3	.4	.3	.3	1.3	...
Other elms	8.1	1.1	1.6	1.5	2.0	.8	...	...	1.1	...	...
Other hardwoods	100.6	36.2	20.8	11.2	9.1	6.9	2.8	2.3	2.2	7.3	1.8
Total	2,043.1	241.3	312.4	319.1	305.1	278.8	213.2	142.5	90.6	125.9	14.2
All species	3,065.9	433.2	554.5	522.5	458.5	377.6	265.6	180.7	107.8	147.1	18.4

1/ Detailed county statistics by species and diameter class are available upon request.

Table 23. *Sawtimber volume on commercial forest land by species and diameter classes, 1971* [1/]

Species	All ownerships	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	803.9	296.8	219.4	140.8	87.3	47.5	12.1	...	...
Loblolly pine	107.7	30.4	47.8	8.3	9.4	4.2	3.9	3.7	...
Virginia pine	860.3	311.4	313.3	160.1	38.4	25.4	8.0	3.7	...
Pitch pine	215.2	34.8	35.5	59.8	30.0	31.0	22.3	1.8	...
Table-Mountain pine	22.1	4.6	5.6	7.1	4.8	...	...	...	...
White pine	528.7	63.5	67.5	97.2	78.9	78.6	40.4	86.5	16.1
Hemlock	94.3	6.6	15.2	17.3	20.7	10.0	3.8	16.2	4.5
Redcedar	24.7	11.8	8.1	2.2	.9	1.2	.5	...	...
Total	2,656.9	759.9	712.4	492.8	270.4	197.9	91.0	111.9	20.6
Hardwood:									
White oak (*Quercus alba*)	480.6	...	77.4	107.8	84.4	76.9	33.9	98.3	1.9
Other white oaks	1,155.9	...	248.9	276.8	220.1	157.6	127.5	107.2	17.8
Northern red oak	478.4	...	67.0	106.2	75.5	65.1	51.0	95.9	17.7
Other red oaks	1,004.4	...	214.9	237.1	234.6	120.2	71.0	110.1	16.5
Hickory	615.8	...	151.9	139.9	129.6	81.2	41.0	69.8	2.4
Hard maple	77.3	...	1.7	20.2	9.8	12.7	12.4	20.5	...
Soft maple	125.7	...	57.6	16.4	16.6	18.0	9.1	8.0	...
Beech	74.2	...	12.0	13.5	8.6	11.8	10.9	17.4	...
Sweetgum	46.8	...	17.2	13.1	6.3	4.2	1.3	4.7	...
Blackgum	79.0	...	21.9	22.8	7.0	8.8	8.9	9.6	...
White ash	57.0	...	11.6	12.8	14.1	8.0	6.6	3.9	...
Sycamore	33.7	...	3.7	10.5	3.3	5.0	3.8	4.7	2.7
Basswood	60.6	...	10.8	10.9	6.2	14.3	6.0	12.4	...
Yellow poplar	730.8	...	167.8	195.7	165.2	94.3	50.0	51.1	6.7
Magnolia (*Magnolia* spp.)	14.1	...	4.0	7.8	...	2.3	...	...	...
Black walnut	49.3	...	27.9	10.3	8.2	2.9	...	...	...
Black cherry	10.8	...	2.1	6.7	...	2.0	...	...	...
American elm	16.6	...	3.1	1.3	1.6	1.5	1.0	8.1	...
Other elms	15.8	...	7.2	3.4	...	...	5.2	...	...
Other hardwoods	147.1	...	38.1	27.4	13.1	11.5	9.7	37.6	9.7
Total	5,273.9	...	1,146.8	1,240.6	1,004.2	698.3	449.3	659.3	75.4
All species	7,930.8	759.9	1,859.2	1,733.4	1,274.6	896.2	540.3	771.2	96.0

1/ Detailed county statistics by species and diameter class are available upon request.

Table 24. *Average volume per acre of growing stock and sawtimber on commercial forest land by species group and ownership class, 1971*

Ownership class	Growing stock			Sawtimber		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood
	- - *Cubic feet* - -			- - *Board feet* - -		
National forest	1,228	435	793	3,496	1,440	2,056
Other public	951	584	367	2,456	1,645	811
Forest industry	796	454	342	1,720	1,010	710
Farmer	838	225	613	2,208	531	1,677
Misc. private	812	277	535	1,913	630	1,283
All ownerships	900	300	600	2,328	780	1,548

Table 25. *Average cubic meters per hectare of growing stock on commercial forest land by species group and ownership class, 1971*

Ownership class	All species	Softwood	Hardwood
	- - - *Cubic meters* - - -		
National forest	86	30	56
Other public	67	41	26
Forest industry	56	32	24
Farmer	59	16	43
Misc. private	56	19	37
All ownerships	63	21	42