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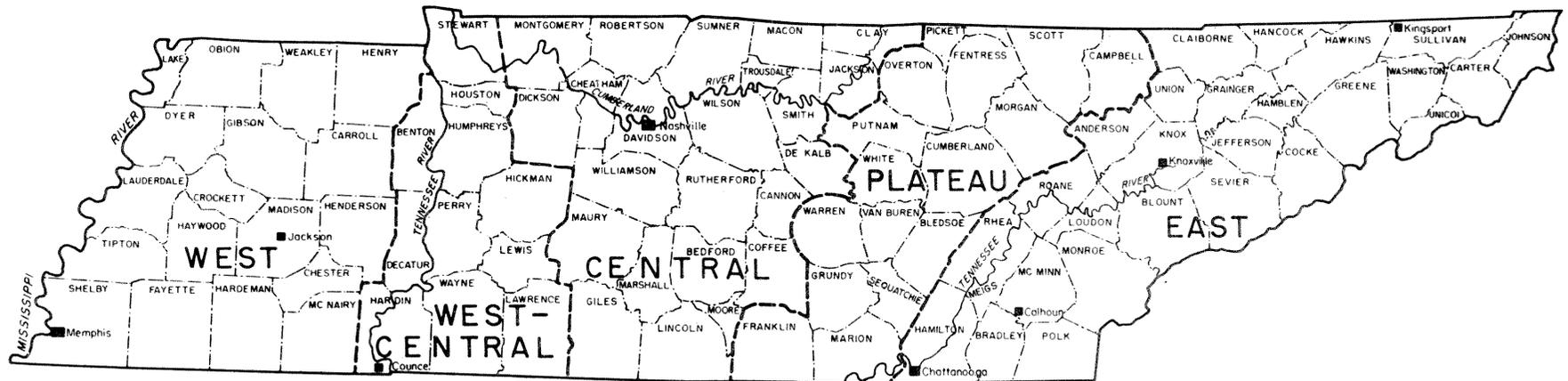
Tennessee Forest Industries, 1979

Victor A. Rudis

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Forest Resource Regions in Tennessee.

Tennessee Forest Industries, 1979

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THE REPORT IN BRIEF

Tennessee supplied 178 million cubic feet of roundwood to forest industries in 1979, with hardwoods comprising four-fifths of the total. Saw logs and pulpwood accounted for 96 percent of the roundwood harvested.

Overall production increased by 30 percent since 1970, principally due to increases in pulpwood and saw log production. Output of veneer, cooperage, and other specialty products has been declining since 1949 (fig. 1).

Some 754 wood-using plants were operating in 1979 compared with 624 in 1970, and 1,286 in 1960. In 1979, the majority of mills, largely sawmills, were located in the East, Plateau, and West Central regions of the State.

These are some of the major findings of a new canvass of all primary forest industries in Tennessee for calendar 1979. The canvass was conducted by personnel with the Division of Forestry, Tennessee Department of Conservation, in cooperation with the Division of Land and Forest Resources of the Tennessee Valley Authority. Data were compiled and analyzed by the Renewable Resources Unit of the Southern Forest Experiment Station.

Results of previous statewide industry surveys mentioned in this report are contained in reports by Sternitzke (1955, 1960) and Bertelson (1971).

SAW LOGS

Tennessee's forests produced 694 million board feet of saw logs in 1979, an increase of 9 percent since 1960, and 30 percent since 1970. Hardwoods made up 88 percent of the total volume. Oaks accounted for the majority of the hardwood volume. Softwood volume was made up principally of yellow and white pines.

The number of sawmills on record in 1979 was 694. This is 27 percent higher than in 1970, but is still lower than the 1,135 mills recorded in 1960. In this and in prior studies, small sawmills processed most of the softwood; large sawmills processed mainly hardwoods. In 1979, 71 percent of the softwood saw logs went to small mills (less than 3 million board feet per year). Large mills (greater than 3 million board feet per year) processed 43 percent of the hardwood saw logs in the State.

Tennessee imported 64 million board feet of saw logs, chiefly hardwoods, in 1979. Nearly 23 million board feet

were exported to surrounding states. Over 42 percent of the saw logs cut within the State were transported over county lines before being sawn into lumber.

PULPWOOD

Tennessee's pulpwood harvest nearly doubled from 365,000 cords in 1969 to 647,000 cords in 1979. At the same time, expansion of existing pulp mills increased Tennessee's pulping capacity from 3,220 tons/day to 4,385 tons/day. Pulpwood harvested in 1979 topped the record year of 1975 by 15 percent (fig. 2).

Tennessee's 7 pulp mills imported 1 million cords of roundwood in 1979, twice the amount harvested from the State. Softwoods comprised the majority of the import volume.

Better than 63 percent of the roundwood harvested in the State for pulp production was comprised of hardwoods, as in the record year 1975. In the intervening years, hardwood roundwood has been below 57 percent.

In addition to roundwood volume, the equivalent of 308,000 cords of plant byproducts were used by pulp mills. This volume represents a third of the total 1979 pulpwood production. Since 1970, plant byproducts comprised between one-fourth and one-half of total pulpwood production.

VENEER

Veneer logs processed by Tennessee's 5 veneer mills totaled just under 9 million board feet, half of which was imported. The harvest of veneer logs continued to decline from 11 million board feet in 1960, to 7 million board feet in 1970, and 5 million board feet in 1979. Hardwoods comprised all of the veneer logs harvested, with yellow-poplar supplying 39 percent of the total.

COOPERAGE

Tennessee's 6 cooperage mills processed 22 million board feet of white oak roundwood in 1979. Two-thirds of this amount was imported from other states. Cooperage logs harvested from Tennessee continued to decline from 26 million board feet in 1960, to 11 million board feet in 1970, and 8 million board feet in 1979.



Figure 1.— Output of industrial roundwood 1949-1979.

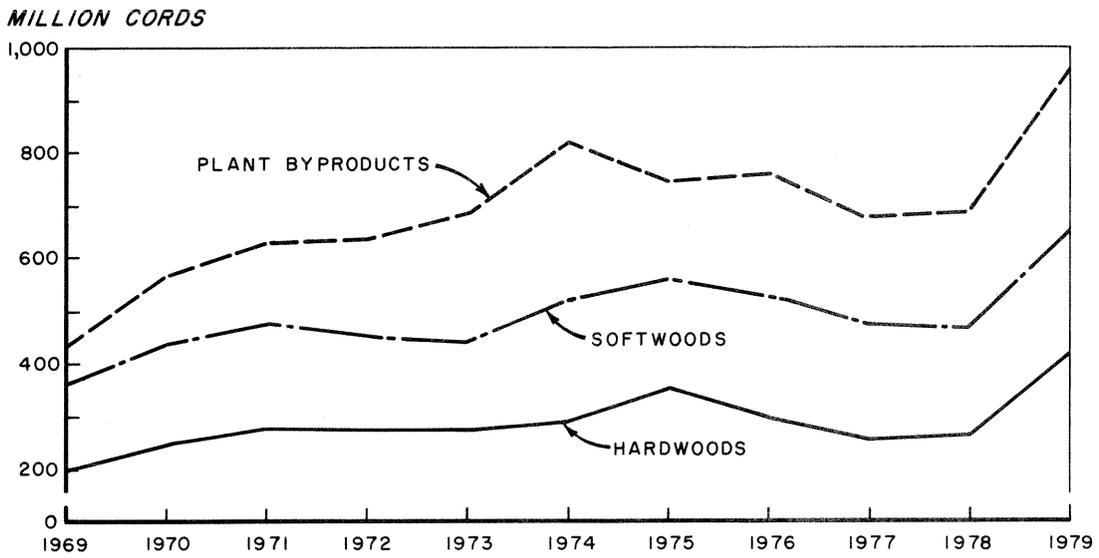


Figure 2.— Pulpwood production in Tennessee, 1969-1979.

OTHER PRODUCTS

Most remaining timber went into the production of hickory handlestock. Other products were furniture stock, miscellaneous dimension stock, charcoal, excelsior, shuttleblocks, commercial posts and poles, and other industrial wood products.

PLANT RESIDUES

In converting roundwood into primary products, plants generated over 1.8 million tons of plant residues. Of this volume, 55 percent was in coarse form suitable for conversion into pulp chips. The rest was finer material such as sawdust and shavings. Coarse chips were used principally for fiber production and accounted for 70 percent of coarse residue utilization. Nearly 20 percent of the finer residues were also used for fiber production. Other uses of both coarse and fine residues included use as animal bedding, mulch, and industrial fuel.

One-fourth of plant residues, mainly fine hardwood residues, were not used. This contrasts sharply with the 1970 report, when unused residues accounted for 49 percent of total residues.

Nearly 880,000 tons of bark accumulated in 1979. Over three-fourths of this was used as industrial fuel and other products.

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Table 1. - Volume of industrial roundwood by product, 1979

Product	Volume in standard units				Roundwood volume		
	Standard units	All species	Softwood	Hardwood	All species	Softwood	Hardwood
					- - - - M ft ³ - - - -		
Saw logs	M fbm ¹	694,280	84,064	610,216	118,501	14,215	104,286
Veneer logs	M fbm ¹	4,780	---	4,780	802	---	802
Pulpwood	Std. cords	647,018	228,799	418,219	51,991	18,533	33,458
Cooperage	M fbm ¹	7,583	---	7,583	1,092	---	1,092
Poles and posts	M pieces	284	254	29	285	266	19
Misc. products ²	M ft ³	5,719	575	5,144	5,719	575	5,144
All products					178,390	33,589	144,801

¹International 1/4-inch rule.

²Includes handlestock, furniture stock, chemical wood, and miscellaneous dimension stock.

Table 2. - Industrial roundwood by species, 1979

Species group	Saw logs	Veneer logs	Pulpwood	Cooperage	Poles and posts	Miscellaneous products
	- - M fbm ¹ - -		Std. cords	M fbm ¹	M pieces	M ft ³
Softwood:						
White pine	15,249	---	---	---	---	75
Yellow pine	58,161	---	228,799 ²	---	239	344
Red cedar	9,026	---	---	---	15	156
Other	1,628	---	---	---	---	---
Total	84,064	...	228,799	...	254	575
Hardwood:						
Gums	28,752	1,347	16,115	---	---	32
Hickory	41,344	33	---	---	---	3,717
Red oaks	230,951	---	307,854 ³	---	---	394
White oaks	142,079	---	---	7,583	15	146
Yellow poplar	100,067	1,885	---	---	1	95
Other hardwoods	67,023	1,515	94,250 ⁴	---	13	760
Total	610,216	4,780	418,219	7,583	29	5,144
All species	694,280	4,780	647,018	7,583	273	5,719

¹International 1/4-inch rule.

²All pines.

³Red and white oaks.

⁴Yellow poplar, hickory, and other hardwoods.

Table 3. - Movement of industrial roundwood by product, and species group, 1979

Product and species group	Out of State receipts	Logged and remained in State	Logged and shipped out of State	Total receipts	Total net production
-----M ft ³ -----					
All species:					
Saw logs	10,987	114,657	3,845	125,644	121,799
Veneer	666	802	---	1,468	1,468
Pulpwood	84,866	38,109	13,881	122,975	109,094
Cooperage	2,182	1,021	71	3,203	3,132
Miscellaneous ¹	5,973	5,675	329	11,648	11,319
Total	104,674	160,264	18,126	264,938	246,812
Softwood:					
Saw logs	647	13,206	1,009	13,853	12,844
Veneer	123	---	---	123	123
Pulpwood	75,910	16,630	1,903	92,540	90,637
Cooperage	---	---	---	---	---
Miscellaneous ¹	309	645	196	954	758
Total	76,989	30,481	3,108	107,470	104,362
Hardwood:					
Saw logs	10,340	101,451	2,836	111,791	108,955
Veneer	543	802	---	1,345	1,345
Pulpwood	8,956	21,479	11,978	30,435	18,457
Cooperage	2,182	1,021	71	3,203	3,132
Miscellaneous ¹	5,664	5,030	133	10,694	10,561
Total	27,685	129,783	15,018	157,468	142,450
All products	104,674	160,264	18,126	264,938	246,812

¹Includes poles, commercial posts, handlestock, furniture stock, chemical wood, and miscellaneous dimension stock.

Table 4. - Saw log production by county, 1979

County	All species	Softwood	Hardwood	County	All species	Softwood	Hardwood
-----M fbm ¹ -----				-----M fbm ¹ -----			
Anderson	4,371	136	4,235	Lawrence	11,547	66	11,481
Bedford	3,536	1,717	1,819	Lewis	10,796	1,620	9,176
Benton	14,943	146	14,797	Lincoln	5,822	576	5,246
Bledsoe	5,038	959	4,079	Loudon	367	91	276
Blount	3,560	1,501	2,059	McMinn	3,019	1,488	1,531
Bradley	3,310	2,384	926	McNairy	17,209	3,347	13,862
Campbell	4,431	547	3,884	Macon	8,462	---	8,462
Cannon	4,792	325	4,467	Madison	7,184	140	7,044
Carroll	8,613	416	8,197	Marion	6,142	1,772	4,370
Carter	5,650	1,813	3,837	Marshall	1,558	326	1,232
Ceatham	12,391	13	12,378	Maury	4,545	45	4,500
Chester	6,309	970	5,339	Meigs	1,711	869	842
Claiborne	3,447	895	2,552	Monroe	11,967	5,789	6,178
Clay	9,508	132	9,376	Montgomery	9,553	26	9,527
Cocke	4,929	2,095	2,834	Moore	2,706	47	2,659
Coffee	7,083	201	6,882	Morgan	7,484	2,355	5,129
Crockett	443	---	443	Obion	9,650	96	9,554
Cumberland	7,706	1,040	6,666	Overton	13,786	2,116	11,670
Davidson	5,066	181	4,885	Perry	20,553	390	20,163
Decatur	16,037	43	15,994	Pickett	4,093	350	3,743
De Kalb	3,251	398	2,853	Polk	14,345	8,643	5,702
Dickson	8,719	2	8,717	Putnam	12,074	691	11,383
Dyer	8,624	25	8,599	Rhea	1,973	303	1,670
Fayette	6,573	---	6,573	Roane	2,016	668	1,348
Fentress	12,752	4,212	8,540	Robertson	10,334	---	10,334
Franklin	6,824	177	6,647	Rutherford	2,802	1,098	1,704
Gibson	812	102	710	Scott	5,065	1,006	4,060
Giles	9,635	38	9,597	Sequatchie	4,500	966	3,534
Grainger	3,230	782	2,448	Sevier	981	280	701
Greene	5,469	1,204	4,265	Shelby	704	3	701
Grundy	6,036	476	5,560	Smith	3,453	330	3,123
Hamblen	2,254	411	1,843	Stewart	16,673	154	16,519
Hamilton	4,160	2,265	1,895	Sullivan	1,486	311	1,175
Hancock	6,337	717	5,620	Sumner	2,212	67	2,145
Hardeman	22,604	1,413	21,191	Tipton	4,346	3	4,343
Hardin	17,955	3,483	14,472	Trousdale	506	---	506
Hawkins	5,252	816	4,436	Unicoi	4,549	2,013	2,536
Haywood	13,813	92	13,721	Union	2,547	612	1,935
Henderson	9,912	558	9,354	Van Buren	6,221	721	5,500
Henry	14,791	841	13,950	Warren	11,169	563	10,605
Hickman	16,076	600	15,476	Washington	6,566	930	5,636
Houston	11,049	51	10,998	Wayne	17,005	1,370	15,635
Humphreys	10,995	9	10,986	Weakley	8,765	456	8,309
Jackson	10,165	715	9,450	White	18,577	1,680	16,897
Jefferson	2,018	442	1,576	Williamson	9,327	266	9,061
Johnson	4,944	2,552	2,392	Wilson	1,828	467	1,361
Knox	2,284	357	1,927	All counties	694,280	84,064	610,216
Lake	---	---	---				
Lauderdale	8,405	702	7,703				

¹International 1/4-inch rule.

Table 5. - Saw Log movement, 1979

County	Logged and remained in county	Outgoing shipments	Incoming shipments	Total log receipts	County	Logged and remained in county	Outgoing shipments	Incoming shipments	Total log receipts
-----M f b m l-----					-----M f b m l-----				
Anderson	3,874	497	939	4,813	Lewis	8,913	1,883	3,189	12,102
Bedford	2,116	1,420	472	2,588	Lincoln	1,661	4,161	1,387	3,048
Benton	8,238	6,704	95	8,333	Loudon	26	341	5	31
Bledsoe	4,138	900	3,145	7,283	McMinn	2,080	939	1,228	3,308
Blount	2,961	599	407	3,368	McNairy	12,799	4,410	6,733	19,532
Bradley	2,496	814	165	2,661	Macon	6,417	2,045	6,330	12,747
Campbell	1,008	3,423	527	1,535	Madison	2,925	4,259	6,828	9,753
Cannon	2,406	2,386	1,803	4,209	Marion	3,340	2,802	2,979	6,319
Carroll	4,511	4,103	3,466	7,977	Marshall	1,219	338	2,727	3,946
Carter	3,938	1,712	2,189	6,127	Monroe	10,525	1,442	7,480	18,005
Cheatham	5,471	6,921	3,122	8,593	Montgomery	4,102	5,451	19,791	23,893
Chester	1,102	5,208	4,764	5,866	Morgan	3,764	3,720	1,508	5,272
Claiborne	3,082	365	9,256	12,338	Obion	6,510	3,140	8,283	14,793
Clay	6,774	2,734	5,504	12,278	Overton	6,845	6,941	1,774	8,619
Cocke	2,663	2,266	228	2,891	Perry	18,566	1,987	4,546	23,112
Coffee	5,294	1,789	2,726	8,020	Polk	4,300	10,045	7	4,307
Cumberland	3,425	4,280	2,225	5,650	Putnam	7,757	4,317	10,603	18,360
Davidson	1,765	3,301	5,348	7,113	Rhea	416	1,556	593	1,009
Decatur	12,469	3,568	2,845	15,314	Roane	544	1,472	864	1,408
De Kalb	246	3,005	257	503	Robertson	5,729	4,605	2,523	8,252
Dickson	5,785	2,934	4,540	10,325	Rutherford	1,962	840	3,397	5,359
Fayette	4,823	1,750	2,580	7,403	Scott	2,893	2,173	6,008	8,901
Fentress	8,325	4,427	3,571	11,896	Sequatchie	747	3,753	591	1,338
Franklin	2,242	4,582	3,383	5,625	Sevier	404	577	479	883
Giles	7,773	1,862	6,416	14,189	Smith	3,130	323	6,773	9,903
Grainger	796	2,434	914	1,710	Stewart	6,119	10,554	4,723	10,842
Greene	3,347	2,122	4,054	7,401	Sullivan	457	1,029	35	492
Grundy	2,604	3,432	4,291	6,895	Sumner	1,245	968	1,013	2,258
Hamblen	1,837	417	6,891	8,728	Tipton	44	4,302	9	53
Hamilton	1,198	2,963	2,479	3,677	Unicoi	2,482	2,067	248	2,730
Hancock	1,936	4,401	912	2,848	Union	407	2,140	42	449
Hardeman	14,126	8,479	3,497	17,623	Van Buren	2,034	4,187	687	2,721
Hardin	13,724	4,231	7,782	21,506	Warren	8,064	3,105	7,469	15,533
Haywood	4,550	9,263	5,695	10,245	Washington	4,468	2,098	2,797	7,265
Henderson	7,483	2,429	2,775	10,258	Wayne	13,204	3,801	6,818	20,022
Henry	11,177	3,614	11,714	22,891	Weakley	4,145	4,620	2,432	6,577
Hickman	10,564	5,512	1,273	11,837	White	11,326	7,251	9,358	20,684
Houston	7,037	4,012	4,016	11,053	Williamson	2,316	7,011	396	2,712
Humphreys	9,022	1,973	6,645	15,667	All other counties ²	8,200	33,186	46,384	54,584
Jefferson	105	1,913	53	158					
Johnson	3,801	1,143	2,119	5,920	All counties	398,240	296,040	337,808	736,048
Knox	429	1,855	882	1,311					
Lauderdale	5,791	2,614	10,282	16,073					
Lawrence	9,703	1,844	2,524	12,227					

¹International 1/4-inch rule.²Counties with less than 3 plants.

Table 6. - Veneer log production by county, 1979

County ²	All species	County ²	All species
	<i>M fbm¹</i>		<i>M fbm¹</i>
Benton	63	Henderson	63
Bledsoe	183	Humphreys	62
Carroll	62	Madison	447
Chester	63	Meigs	191
Crockett	63		
Cumberland	128	Perry	63
Decatur	63	Rhea	183
Dyer	1,755	Union	24
Fayette	62	Wayne	32
Gibson	62	Weakley	527
Hardeman	447		
Haywood	237	All counties	4,780

¹International 1/4-inch rule.

²Counties with negligible output are omitted.

Table 7. - Cooperage production by county, 1979

County ²	All species	County ²	All species
	<i>M fbm¹</i>		<i>M fbm¹</i>
Bledsoe	102	Montgomery	183
Carroll	401	Overton	260
Cheatham	183	Pickett	1,558
Clay	260	Rhea	205
Cumberland	102	Roane	102
Fayette	367	Robertson	183
Fentress	260	Scott	260
Giles	94	Shelby	368
Hardeman	401	Stewart	446
Henderson	401	Tipton	367
Lincoln	135	Wilson	41
McNairy	401		
Madison	401	All counties	7,583
Meigs	102		

¹International 1/4-inch rule.

²Counties with negligible output are omitted.

Table 8. - *Miscellaneous products*¹ by county, 1979

County ²	All species	Softwood	Hardwood	County ²	All species	Softwood	Hardwood
	-----M ft ³ -----				-----M ft ³ -----		
Bedford	21	---	21	McMinn	35	16	19
Benton	35	32	3	McNairy	3	---	3
Bledsoe	123	---	123	Madison	87	9	78
Blount	7	---	7	Marion	293	25	268
Bradley	16	16	---	Maury	8	1	7
Campbell	144	---	144	Meigs	7	---	7
Cannon	36	---	36	Monroe	85	66	19
Carroll	17	---	17	Montgomery	3	---	3
Cheatham	7	---	7	Moore	70	61	9
Chester	3	---	3	Morgan	100	1	99
Coffee	23	---	23	Obion	2	---	2
Cumberland	206	---	206	Overton	157	---	157
Decatur	715	---	715	Perry	7	---	7
De Kalb	60	---	60	Pickett	42	---	42
Dickson	67	32	35	Polk	4	---	4
Fayette	94	---	94	Putnam	37	---	37
Fentress	274	40	234	Rhea	1	---	1
Franklin	57	---	57	Roane	1	---	1
Giles	236	42	194	Rutherford	33	---	33
Grundy	249	---	249	Scott	223	82	141
Hamilton	8	8	---	Sequatchie	85	---	85
Hardeman	9	9	---	Shelby	462	219	243
Hardin	99	---	99	Smith	15	---	15
Henderson	713	---	713	Sullivan	86	15	71
Henry	60	---	60	Sumner	10	10	---
Hickman	34	---	34	Tipton	90	---	90
Houston	5	---	5	Warren	102	---	102
Humphreys	35	32	3	Wayne	38	---	38
Jackson	18	---	18	White	120	---	120
Johnson	121	59	62	Williamson	7	---	7
Lawrence	114	5	109	Wilson	33	---	33
Lewis	14	---	14				
Lincoln	112	61	51				
Loudon	26	---	26	All counties	6,004	841	5,163

¹Includes poles, posts, handlestock, furniture stock, chemical wood, and miscellaneous dimension stock.

²Counties with negligible output are omitted.

Table 9. - Round pulpwood production by county, 1979

County ¹	All species	Softwood	Hardwood	County ¹	All species	Softwood	Hardwood
- - - - Standard cords - - - -				- - - - Standard cords - - - -			
Anderson	12,204	5,300	6,904	Knox	5,145	4,526	619
Benton	4,646	66	4,580	Lauderdale	104	28	76
Bledsoe	16,175	3,933	12,242	Lewis	15,560	8,251	7,309
Blount	6,294	4,184	2,110	Lincoln	6,625	1,661	4,964
Bradley	30,761	25,772	4,989	Loudon	3,768	1,830	1,938
Campbell	1,277	404	873	McMinn	19,480	16,712	2,768
Carroll	3,482	124	3,358	McNairy	11,092	9,796	1,296
Carter	5,746	---	5,746	Macon	3,071	---	3,071
Chester	8,489	3,996	4,493	Madison	270	270	---
Claiborne	808	808	---	Marion	6,437	---	6,437
Clay	4,541	---	4,541	Meigs	14,836	11,846	2,990
Cocke	4,158	1,504	2,654	Monroe	23,603	18,410	5,193
Coffee	8,974	4,134	4,840	Montgomery	3,567	1,929	1,638
Crockett	3	---	3	Morgan	11,361	5,230	6,131
Cumberland	17,061	7,740	9,321	Perry	4,857	136	4,721
Davidson	1,255	---	1,255	Pickett	11,737	3	11,734
Decatur	2,248	2,177	71	Polk	9,537	7,512	2,025
De Kalb	186	---	186	Putnam	14,593	---	14,593
Dickson	12	3	9	Rhea	12,386	6,555	5,831
Fayette	13	13	---	Roane	16,010	3,285	12,725
Fentress	6,733	---	6,733	Rutherford	5,703	5,703	---
Franklin	9,679	---	9,679	Scott	13,010	7,731	5,279
Gibson	2,830	2,825	5	Sequatchie	7,804	781	7,023
Giles	12,114	2,507	9,607	Sevier	445	372	73
Grainger	161	161	---	Shelby	1	1	---
Greene	7,125	1,214	5,911	Stewart	418	---	418
Grundy	13,587	4,124	9,463	Sullivan	5,600	---	5,600
Hamblen	765	92	673	Tipton	14	14	---
Hamilton	7,372	5,593	1,789	Union	678	242	436
Hancock	1,972	8	1,964	Warren	5,056	216	4,840
Hardeman	9,799	5,305	4,494	Washington	1,600	---	1,600
Hardin	18,811	5,867	12,944	Wayne	82,752	21,213	61,539
Hawkins	21,112	2,521	18,591	Weakley	3,968	62	3,906
Henderson	5,047	3,232	1,815	White	8,317	---	8,317
Henry	2,475	4	2,471	All counties	647,018	228,799	418,219
Hickman	20,051	278	19,773				
Houston	3	---	3				
Humphreys	41,312	---	41,312				
Jefferson	714	605	109				
Johnson	2,618	---	2,618				

¹Counties with negligible output are omitted.

Table 10. - All industrial roundwood production by county, 1979

County	All species	Softwood	Hardwood	County	All species	Softwood	Hardwood
- - - - -M ft ³ - - - - -				- - - - -M ft ³ - - - - -			
Anderson	1,728	452	1,276	Lawrence	3,340	684	2,656
Bedford	622	290	332	Lewis	2,388	409	1,979
Benton	2,970	61	2,909	Lincoln	1,428	306	1,122
Bledsoe	2,326	481	1,845	Loudon	88	15	73
Blount	1,121	593	528	McMinn	2,123	1,621	502
Bradley	3,064	2,507	557	McNairy	3,893	1,359	2,534
Campbell	1,003	125	878	Macon	2,092	...	2,092
Cannon	854	55	799	Madison	1,469	54	1,415
Carroll	1,835	80	1,755	Marion	1,765	324	1,441
Carter	1,422	307	1,115	Marshall	266	55	211
Ceatham	2,151	2	2,149	Maury	784	8	776
Chester	1,773	488	1,285	Meigs	1,544	1,107	437
Claiborne	653	217	436	Monroe	4,026	2,536	1,490
Clay	2,025	22	2,003	Montgomery	1,950	161	1,789
Cocke	1,173	476	697	Moore	532	69	463
Coffee	1,956	369	1,587	Morgan	2,289	823	1,466
Crockett	86	---	86	Obion	1,651	16	1,635
Cumberland	2,930	803	2,127	Overton	2,547	358	2,189
Davidson	966	30	936	Perry	3,918	77	3,841
Decatur	3,648	184	3,464	Pickett	1,904	59	1,845
De Kalb	614	67	547	Polk	3,210	2,070	1,140
Dickson	1,572	32	1,540	Putnam	3,266	117	3,149
Dyer	1,769	4	1,765	Rhea	1,395	583	812
Fayette	1,281	1	1,280	Roane	1,643	379	1,264
Fentress	3,022	753	2,269	Robertson	1,792	...	1,792
Franklin	1,997	30	1,967	Rutherford	972	648	324
Gibson	378	246	132	Scott	2,173	878	1,295
Giles	2,868	252	2,616	Sequatchie	1,477	227	1,250
Grainger	564	146	418	Sevier	203	77	126
Greene	1,504	302	1,202	Shelby	636	220	416
Grundy	2,371	414	1,957	Smith	605	56	549
Hamblen	446	77	369	Stewart	2,947	26	2,921
Hamilton	1,310	843	467	Sullivan	788	68	720
Hancock	1,239	122	1,117	Sumner	389	22	367
Hardeman	4,792	678	4,114	Tipton	886	1	885
Hardin	4,672	1,064	3,608	Trousdale	87	---	87
Hawkins	2,588	342	2,246	Unicoi	774	341	433
Haywood	2,400	16	2,384	Union	493	123	370
Henderson	2,882	356	2,526	Van Buren	1,062	122	940
Henry	2,784	142	2,642	Warren	2,414	113	2,301
Hickman	4,385	124	4,261	Washington	1,248	157	1,091
Houston	1,894	9	1,885	Wayne	9,589	1,950	7,639
Humphreys	5,229	33	5,196	Weakley	1,903	82	1,821
Jackson	1,754	121	1,633	White	3,957	284	3,673
Jefferson	402	124	278	Williamson	1,601	46	1,555
Johnson	1,171	491	680	Wilson	351	79	272
Knox	806	427	379				
Lake	---	---	---				
Lauderdale	1,443	121	1,322				
				All counties	178,301	33,589	144,712

Table 11. - Plant byproducts used by county, 1979

County	All species		Softwood		Hardwood		County	All species		Softwood		Hardwood	
	Coarse	Fine	Coarse	Fine	Coarse	Fine		Coarse	Fine	Coarse	Fine	Coarse	Fine
	-Green tons-							-Green tons-					
Anderson	13,479	8,081	119	23	13,360	8,058	Lincoln	3,084	2,802	---	---	3,084	2,802
Redford	2,680	2,315	984	1,059	1,696	1,256	Loudon	1,105	697	12	5	1,093	692
Benton	11,728	391	11	11	11,717	380	McMinn	3,624	2,365	1,666	1,097	1,958	1,268
Bledsoe	12,456	9,245	935	567	11,521	8,678	McNairy	25,214	7,487	4,469	1,578	20,745	5,909
Blount	2,783	1,301	934	460	1,849	841	Macon	10,196	3,111	---	---	10,196	3,111
Bradley	2,036	1,994	1,689	1,675	347	319	Madison	16,615	3,247	---	---	16,615	3,247
Campbell	649	179	141	52	508	127	Marion	10,288	8,127	1,938	1,527	8,350	6,600
Cannon	5,669	1,907	561	250	5,108	1,657	Marshall	3,930	1,409	24	23	3,906	1,386
Carroll	19,855	10,432	177	173	19,678	10,259	Meigs	1,466	1,245	959	789	507	456
Carter	6,853	5,832	1,996	1,646	4,857	4,186	Monroe	17,355	10,414	10,297	5,897	7,058	4,517
Cheatham	6,661	6,729	---	---	6,661	6,729	Montgomery	24,868	20,053	---	---	24,868	20,053
Chester	10,461	---	413	---	10,048	---	Moore	319	---	---	---	319	---
Claiborne	7,676	6,151	530	294	7,146	5,857	Morgan	5,871	5,005	604	511	5,267	4,494
Clay	10,444	3,869	169	106	10,275	3,763	Obion	14,962	---	110	---	14,852	---
Cocke	3,078	291	1,401	248	1,677	43	Overton	8,568	4,498	956	386	7,612	4,112
Coffee	8,899	8,699	---	---	8,899	8,699	Perry	15,306	3,683	257	---	15,049	3,683
Cumberland	5,969	7,101	870	688	5,099	6,413	Pickett	18,932	16,246	68	53	18,864	16,193
Davidson	5,518	890	36	22	5,482	868	Polk	4,020	2,882	3,302	2,229	718	653
Decatur	24,911	3,795	36	22	24,875	3,773	Putnam	17,101	11,270	190	148	16,911	11,122
De Kalb	1,677	1,258	276	174	1,401	1,084	Rhea	5,378	3,524	317	245	5,061	3,279
Dickson	19,955	16,282	---	---	19,955	16,282	Roane	2,188	1,178	853	433	1,335	745
Fayette	831	---	---	---	831	---	Robertson	6,283	6,388	6,283	6,388
Fentress	16,955	8,841	3,910	2,233	13,045	6,608	Rutherford	7,824	5,490	5,975	4,104	1,849	1,386
Franklin	8,055	4,683	115	77	7,940	4,606	Scott	19,097	9,440	8,187	4,972	10,910	4,468
Gibson	7,133	45	60	23	7,073	22	Sequatchie	824	790	187	215	637	575
Giles	18,290	13,314	175	38	18,115	13,276	Sevier	993	546	751	362	242	184
Grainger	2,225	---	1,261	---	964	---	Shelby	31,172	24,976	---	---	31,172	24,976
Greene	6,669	3,985	1,366	893	5,303	3,092	Smith	12,821	5,445	854	599	11,967	4,846
Grundy	9,099	6,918	616	412	8,483	6,506	Stewart	13,240	11,320	253	197	12,987	11,123
Hamblen	8,553	---	1,166	---	7,387	---	Sullivan	495	445	97	83	398	362
Hamilton	4,742	3,891	745	701	3,997	3,190	Sumner	2,116	2,114	---	---	2,116	2,114
Hancock	2,267	153	66	18	2,201	135	Tipton	47	27	6	---	41	27
Hardeman	12,810	3,710	461	74	12,349	3,636	Unicoi	842	177	362	73	480	104
Hardin	15,058	5,703	1,573	514	13,485	5,189	Union	544	---	173	---	371	---
Haywood	11,980	8,409	---	---	11,980	8,409	Van Buren	3,443	---	532	---	2,911	---
Henderson	19,457	11,432	647	500	18,810	10,932	Warren	23,115	15,896	122	111	22,993	15,785
Henry	22,679	12,256	549	516	22,130	11,740	Washington	6,796	2,368	555	209	6,241	2,159
Hickman	16,140	9,857	591	406	15,549	9,451	Wayne	25,754	7,522	3,142	866	22,612	6,656
Houston	15,051	13,147	---	---	15,051	13,147	Weakley	9,679	1,376	428	134	9,251	1,242
Humphreys	24,403	11,207	9	6	24,394	11,201	White	23,706	20,338	3,205	2,602	20,501	17,736
Jefferson	184	---	76	---	108	---	Williamson	3,586	3,147	---	---	3,586	3,147
Johnson	5,507	977	2,533	370	2,974	607	All other counties ¹	19,461	13,980	82	18	19,379	13,962
Knox	5,292	823	1,649	29	3,643	794	All counties	882,536	473,209	81,183	44,339	801,353	429,830
Lauderdale	13,750	---	---	---	13,750	---							
Lawrence	15,476	9,287	143	112	15,333	9,175							
Lewis	14,265	6,801	1,261	481	13,004	6,320							

¹Counties with less than 3 plants or less than 1 green ton.

Table 12. - Unused plant residues by county, 1979

County	All species		Softwood		Hardwood		County	All species		Softwood		Hardwood	
	Coarse	Fine	Coarse	Fine	Coarse	Fine		Coarse	Fine	Coarse	Fine	Coarse	Fine
-Green tone-													
Anderson	1	1,509	---	73	1	1,436	Lewis	2,737	7,382	772	1,102	1,965	6,280
Bedford	749	248	714	---	35	248	Loudon	---	20	---	6	---	14
Benton	607	10,651	---	---	607	10,651	McMinn	1,490	997	359	224	1,131	773
Bledsoe	14	1,091	14	175	---	916	McNairy	3,304	14,846	529	1,909	2,775	12,937
Blount	881	1,917	726	908	155	1,009	Macon	---	6,188	---	---	---	6,188
Bradley	281	...	281	---	---	---	Madison	11,134	9,409	4,919	653	6,215	8,756
Campbell	356	618	40	84	316	534	Marion	1,455	1,371	548	518	907	853
Cannon	...	2,018	---	124	---	1,894	Marshall	---	2,215	---	---	---	2,215
Carroll	246	6,507	25	8	221	6,499	Meigs	833	259	497	145	336	114
Cheatham	5	56	---	---	5	56	Monroe	11,896	11,503	6,203	5,427	5,693	6,076
Chester	196	9,129	---	330	196	8,799	Montgomery	1,388	1,128	---	---	1,388	1,128
Claiborne	90	897	26	163	64	734	Moore	652	896	---	---	652	896
Clay	162	6,282	1	64	161	6,218	Morgan	1,452	1,271	361	220	1,091	1,051
Cocke	6	2,312	---	907	6	1,405	Obion	---	11,503	---	92	---	11,411
Coffee	1,003	82	---	---	1,003	82	Overton	2,709	4,810	1,609	1,566	1,100	3,244
Cumberland	5,413	1,835	111	155	5,302	1,680	Perry	9,122	18,385	---	241	9,122	18,144
Davidson	...	3,895	---	---	---	3,895	Pickett	---	273	---	---	---	273
Decatur	796	18,096	---	---	796	18,096	Polk	1,739	1,348	1,100	788	639	560
De Kalb	34	26	16	8	18	18	Putnam	7,313	8,893	---	---	7,313	8,893
Dickson	281	1,407	---	---	281	1,407	Rhea	6	39	---	2	6	37
Fayette	7,553	8,236	---	---	7,553	8,236	Roane	---	368	---	155	---	213
Fentress	2,101	6,558	441	1,163	1,660	5,395	Rutherford	600	---	600	---	---	---
Franklin	...	514	---	2	---	512	Scott	704	3,816	40	320	664	3,496
Gibson	...	48	---	30	---	18	Sequatchie	1,475	1,075	149	47	1,326	1,028
Giles	1,098	479	6	---	1,092	479	Sevier	214	529	81	370	133	159
Grainger	...	1,629	---	876	---	753	Shelby	3,532	2,205	3,532	2,205	---	---
Greene	5	2,207	1	362	4	1,845	Smith	864	6,174	864	473	---	5,701
Grundy	8,163	6,895	905	788	7,258	6,107	Stewart	---	29	---	---	---	29
Hamblen	...	7,895	---	1,091	---	6,804	Summer	239	79	122	76	117	3
Hamilton	698	625	295	169	403	456	Tipton	---	17	---	6	---	11
Hancock	...	2,137	---	49	---	2,088	Unicoi	1,749	2,249	1,251	1,434	498	815
Hardeeman	11,194	18,206	714	892	10,480	17,314	Union	18	485	---	149	18	336
Hardin	17,807	19,076	3,652	2,925	14,155	16,151	Van Buren	1,110	3,924	87	483	1,023	3,441
Haywood	1,587	3,947	---	---	1,587	3,947	Washington	2	4,078	1	331	1	3,747
Henderson	1,657	5,904	---	---	1,657	5,904	Wayne	5,718	17,672	---	1,775	5,718	15,897
Henry	868	8,724	868	677	---	8,047	Weakley	---	7,140	---	217	---	6,923
Hickman	...	4,388	---	81	---	4,307	White	1,409	1,695	330	264	1,079	1,431
Humphreys	1,112	5,251	209	26	903	5,225	All other counties ¹	55	361	---	60	55	301
Jefferson	6	157	6	63	---	94	All counties	140,722	348,405	33,005	35,599	107,717	312,806
Johnson	...	4,096	---	1,983	---	2,113							
Knox	...	1,142	---	165	---	977							
Lauderdale	94	12,000	---	---	94	12,000							
Lawrence	739	5,083	---	---	739	5,083							

¹Counties with less than 3 plants, or with less than 1 green ton.

Table 13. - *Bark¹ used and unused by county, 1979*

County	Bark used			Bark unused		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood
	- - - -Green tons- - - -			- - - -Green tons- - - -		
Anderson	6,331	42	6,289	---	---	---
Bedford	1,087	288	799	223	209	14
Benton	5,556	4	5,552	290	---	290
Bledsoe	5,469	331	5,138	5	5	---
Blount	817	170	647	706	410	296
Bradley	516	368	148	362	346	16
Campbell	284	48	236	157	11	146
Cannon	2,577	173	2,404	---	---	---
Carroll	9,219	63	9,156	288	9	279
Carter	1,622	297	1,325	1,360	386	974
Cheatham	3,162	---	3,162	2	---	2
Chester	1,405	67	1,338	3,560	75	3,485
Claiborne	3,604	192	3,412	37	8	29
Clay	1,803	36	1,767	3,244	25	3,219
Cocke	1,290	503	787	---	---	---
Coffee	4,101	---	4,101	582	---	582
Cumberland	1,806	229	1,577	2,835	129	2,706
Davidson	10	10	--	2,583	---	2,583
Decatur	9,440	10	9,430	2,604	---	2,604
De Kalb	730	81	649	12	4	8
Dickson	5,278	---	5,278	4,215	---	4,215
Fayette	397	---	397	3,598	---	3,598
Fentress	5,976	1,354	4,622	2,169	157	2,012
Franklin	3,780	29	3,751	---	---	---
Gibson	1,755	15	1,740	17	7	10
Giles	8,163	186	7,977	515	2	513
Grainger	828	384	444	---	---	---
Greene	2,108	381	1,727	907	110	797
Grundy	3,752	206	3,546	3,617	325	3,292
Hamblen	1,502	244	1,258	2,480	202	2,278
Hamilton	1,560	244	1,316	779	132	647
Hancock	1,066	23	1,043	---	---	---
Hardeman	1,903	69	1,834	9,412	357	9,055
Hardin	214,112	184,788	29,324	11,866	1,584	10,282
Haywood	5,723	---	5,723	747	---	747
Henderson	7,842	228	7,614	1,357	---	1,357
Henry	9,139	195	8,944	1,874	324	1,550
Hickman	5,840	181	5,659	1,721	32	1,689
Houston	1,640	---	1,640	5,443	---	5,443
Humphreys	31,227	2	31,225	673	241	432
Jefferson	76	26	50	1	1	---
Johnson	2,116	898	1,218	262	66	196
Knox	1,645	417	1,228	---	---	---
Lauderdale	---	---	---	6,632	---	6,632
Lawrence	7,306	51	7,255	346	---	346
Lewis	4,316	196	4,120	3,335	524	2,811
Lincoln	1,471	---	1,471	---	---	---
Loudon	375	4	371	---	---	---

Table 13. - Bark¹ used and unused by county, 1979 (Cont'd)

County	Bark used			Bark unused		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood
	- - - -Green tons- - - -			- - - -Green tons- - - -		
McMinn	152,846	133,798	19,048	3,755	2,869	886
McNairy	5,861	792	5,069	6,691	817	5,874
Macon	3,429	---	3,429	1,443	---	1,443
Madison	9,595	5,588	4,007	4,677	21	4,656
Marion	4,187	691	3,496	654	212	442
Marshall	645	9	636	1,233	---	1,233
Meigs	505	285	220	301	148	153
Monroe	7,530	4,799	2,731	5,289	2,055	3,234
Montgomery	4,721	---	4,721	7,559	---	7,559
Moore	152	---	152	312	---	312
Morgan	2,688	209	2,479	632	121	511
Obion	215	---	215	6,935	37	6,898
Overton	3,762	342	3,420	1,043	518	525
Perry	2,146	39	2,107	9,484	59	9,425
Pickett	7,962	24	7,938	---	---	---
Polk	1,341	997	344	687	388	299
Putnam	7,789	60	7,729	3,439	---	3,439
Rhea	1,524	112	1,412	310	---	310
Roane	816	262	554	61	3	58
Robertson	2,982	---	2,982	---	---	---
Rutherford	2,604	1,751	853	175	175	---
Scott	5,449	1,858	3,591	1,496	113	1,383
Sequatchie	366	66	300	668	52	616
Sevier	299	185	114	168	106	62
Shelby	11,026	---	11,026	2,338	1,034	1,304
Smith	2,228	250	1,978	3,935	253	3,682
Stewart	6,180	90	6,090	---	---	---
Sullivan	223	35	188	33,132	---	33,132
Sumner	785	---	785	309	35	274
Tipton	21	2	19	---	---	---
Unicoi	351	128	223	712	475	237
Union	233	60	173	8	---	8
Van Buren	1,558	188	1,370	512	31	481
Warren	10,305	46	10,259	---	---	---
Washington	396	52	344	2,788	151	2,637
Wayne	5,632	406	5,226	8,226	721	7,505
Weakley	720	56	664	3,808	98	3,710
White	10,836	1,129	9,707	620	110	510
Williamson	1,690	---	1,690	---	---	---
All other counties ²	9,125	14	9,111	104	16	88
All counties	682,448	347,356	335,092	194,320	16,299	178,021

¹Excludes pulpwood bark.²Counties with less than 3 plants.

Table 14. - *Distribution of Tennessee sawmills by volume of output and species group, 1979*

Volume of output	All species	Softwood	Hardwood
<i>M fbm¹</i>	<i>Number of mills</i>	<i>Number of mills</i>	<i>Number of mills</i>
1-100	195	234	215
101-300	121	78	122
301-600	90	49	82
601-1,000	71	19	56
1,001-1,500	68	9	58
1,501-2,100	39	4	37
2,101-2,800	40	1	36
2,801-3,600	22	2	17
3,601-4,500	14	-	13
4,501-5,500	17	-	16
5,501-6,600	4	-	2
6,601-7,800	5	-	7
7,801-9,000	4	-	2
9,001-13,000	3	-	3
13,000+	1	-	1
Total	694	396	667

¹International 1/4-inch rule.

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1981. Tennessee forest industries, 1979. U.S. Dep. Agric.
For. Serv. Resour. Bull. SO-81 16 p. South. For. Exp. Stn.,
New Orleans, La.

Findings of a new canvass of all primary forest industries in
Tennessee for calendar 1979. Overall production increased by 30
percent between 1970 and 1979.

