

SOUTHERN PULPWOOD PRODUCTION, 1963

In this report:

	<i>Page</i>
SOUTHERN PULPWOOD PRODUCTION BY—	
—State	1,2
—species group	2
—county	5,6,14-24
—roundwood and residues	13
—territory	14
A TEN-YEAR REVIEW OF—	
—capacity	2
—production	3
—wood residues	3
—mill procurement patterns	4
OUTLOOK	4
PULP COMPANIES USING SOUTHERN WOOD	7,8
PULPMILLS USING SOUTHERN WOOD BY—	
—capacity and location	11,25,26
—process and location	12,25,26
MAP OF SOUTHERN COUNTIES AND FOREST SURVEY UNITS	9

SOUTHERN PULPWOOD PRODUCTION, 1963

Herbert A. Knight

and

Agnes C. Nichols

SOUTHEASTERN FOREST EXPERIMENT STATION

Asheville, North Carolina

and

SOUTHERN FOREST EXPERIMENT STATION

New Orleans, Louisiana

of the

Forest Service, U. S. Department of Agriculture

in cooperation with

SOUTHERN PULPWOOD CONSERVATION ASSOCIATION

Atlanta, Georgia

1964



PULPWOOD PRODUCTION IN THE SOUTH climbed to a fifth consecutive alltime high of 26,590,997 cords in 1963—60 percent of the Nation's total. At year's end, the 81 southern pulpmills had a daily pulping capacity exceeding 54,000 tons. Nine additional mills from outside the region drew wood from the South in 1963.

When both roundwood and residues are included, the South produced 4 percent more pulpwood in 1963 than in 1962. Georgia again continued to lead the region in total production with over 5.5 million cords. Nine of the twelve southern states reported increases over the previous year; the largest increase, 12 percent, occurred in Louisiana. The largest decline, 5 percent, was in Mississippi, and production was off slightly in South Carolina and Tennessee (table 1).

Eighty-four percent of the pulpwood production was in the form of roundwood, with plant wood residues accounting for the rest. Roundwood volume totaled 22,329 thousand cords, a 3-percent gain over 1962. The equivalent of 4,262 thousand cords of residues was supplied

by sawmills and other primary wood-using plants in the South, representing an 11-percent increase in the use of residues for pulpwood over 1962.

The upward trend in the use of hardwood by the pulp industry continued. When wood residues are included, 22 percent of the southern pulpwood supply came from hardwoods. Although the popularity of the gums is still in evidence, use of hard hardwood species for pulpwood is increasing and now comprises one-third of total hardwood production (table 2).

The southern pulp industry is heavily oriented toward the production of kraft, with over 77 percent of the region's pulping capacity designed to use the sulfate process. In addition, there were three new kraft mills under construction at the end of the year. The sulfate mills process most of the pine and soft-textured hardwood pulpwood cut in the South.

A large share of the oaks and other firm-textured hardwoods are consumed by mills using the semichemical process, although the sulfate mills are buying an increasingly higher percent of these hard hardwoods.

Large volumes of pulpwood, mostly pine, were again harvested from southeast Georgia and northeast Florida. The harvest exceeded 100,000 cords in 11 of the counties within this area, with 166,315 cords cut in Clinch County, Georgia. Two other extensive pine-producing areas encompass southern Arkansas-northern Louisiana, and the Georgia-South Carolina

Table 1. *Pulpwood production in the South during 1963, and change since 1962*

State	Round pulpwood and residues	Change
	Thousand cords	Percent
Alabama	3,649.8	+ 6
Arkansas	1,850.4	+ 7
Florida	2,527.9	+ 3
Georgia	5,520.4	+ 6
Louisiana	2,238.2	+12
Mississippi	1,993.2	- 5
North Carolina	2,422.9	+ 4
Oklahoma	64.6	+ 9
South Carolina	2,463.2	- 1
Tennessee	426.7	- 1
Texas	1,443.6	+ 1
Virginia	1,990.1	+ 5
All states	26,591.0	+ 4

Table 2. Round pulpwood production in the South, by State and species group, 1963¹

State	All species	Pine	Soft hardwoods			Hard hardwoods			Total hardwoods	
			Gums Yellow-poplar, cottonwood, willow, magnolia, maple, basswood, and boxelder	Elm, hackberry, and sycamore	Total soft hard- woods	Oaks	Other hard- woods	Total hard hard- woods		
----- Thousand cords -----										
Alabama	3,014.1	2,325.1	400.6	107.8	43.9	552.3	91.5	45.2	136.7	689.0
Arkansas	1,372.1	1,003.1	211.9	53.6	12.8	278.3	88.1	2.6	90.7	369.0
Florida	2,289.0	2,121.6	88.9	35.0	.6	124.5	37.3	5.6	42.9	167.4
Georgia	4,800.7	4,269.8	326.7	39.5	7.2	373.4	135.1	22.4	157.5	530.9
Louisiana	1,968.5	1,503.0	265.9	67.3	15.2	348.4	102.8	14.3	117.1	465.5
Mississippi	1,706.2	683.2	666.8	154.8	65.2	886.8	66.4	69.8	136.2	1,023.0
North Carolina	1,898.2	1,439.1	115.1	80.0	18.8	213.9	202.8	42.4	245.2	459.1
Oklahoma	25.2	6.5	5.6	5.5	2.5	13.6	5.0	.1	5.1	18.7
South Carolina	2,024.3	1,509.3	263.2	89.0	26.8	379.0	98.8	37.2	136.0	515.0
Tennessee	395.8	198.6	14.8	17.3	6.0	38.1	145.5	13.6	159.1	197.2
Texas	1,063.0	820.3	221.5	3.8	.7	226.0	16.5	.2	16.7	242.7
Virginia	1,772.0	1,235.5	51.7	63.9	2.9	118.5	365.4	52.6	418.0	536.5
All states	22,329.1	17,115.1	2,632.7	717.5	202.6	3,552.8	1,355.2	306.0	1,661.2	5,214.0

¹The finer hardwood species breakdowns are based largely on estimates by the companies.

Piedmont. Large volumes of hardwood as well as pine were cut for pulpwood in southwest Alabama. Baldwin County, Alabama, with a 226,566-cord harvest, again led all counties in the entire South in pulpwood production. Southern Mississippi and the Appalachian Mountains supply a large share of our hardwood pulpwood. Over one-half of the pulpwood produced in Mississippi and Tennessee in 1963 was hardwood (fig. 1).

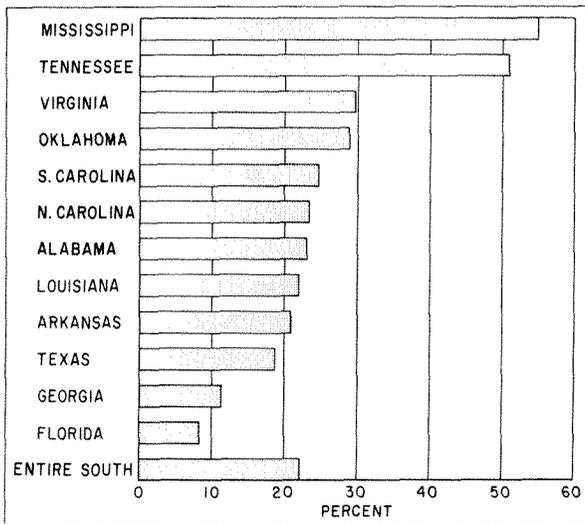


Figure 1. Portion of total pulpwood production obtained from hardwood, 1963.

A TEN-YEAR REVIEW

Several significant trends have developed in the southern pulpwood industry during the past 10 years. Relatively stable economic conditions have prevailed since the end of the

Korean War; therefore, these trends should reflect normal growth within an expanding peacetime economy. A rapid rise in our population, together with an increase in the per capita consumption of paper, paperboard, and other nonpaper products of pulpwood, have been conducive to expansion throughout the industry.

Capacity

The combined daily capacity of the southern pulpmills increased from 28,670 tons in 1953 to 54,222 tons in 1963. About 43 percent of this increase can be attributed to the construction and subsequent expansion of new mills. The remaining increase has been in the form of expansion and modernization projects at existing installations. Major increases occurred at 2-year intervals between 1953 and 1960 (fig. 2). During 1961 and 1962 there was relatively

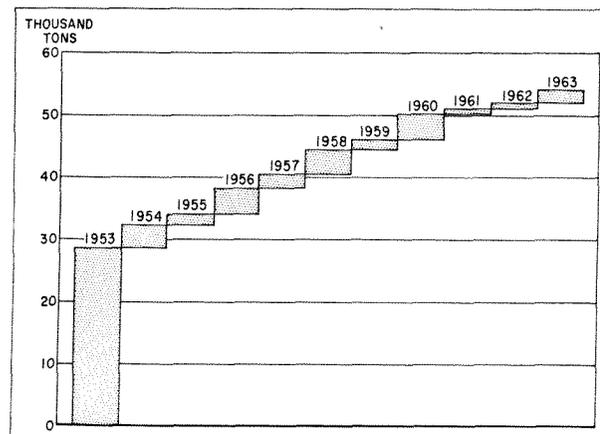


Figure 2. Daily pulping capacity of southern mills, with annual increases, 1953-1963.

modest expansion. One new mill began operations in 1963, and three others were under construction at the end of the year. In addition, a number of the southern mills are presently expanding their existing facilities. Over the entire 10-year period, about one-half of the total expansion has taken place in Georgia, Florida, and Alabama (fig. 3).

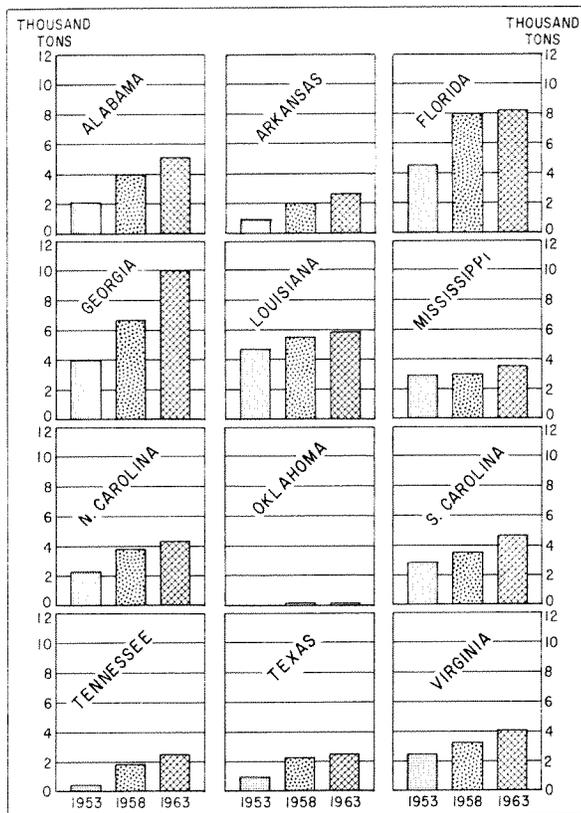


Figure 3. Daily pulping capacity in the South by State, 1953-1963.

Production

Annual pulpwood production in the South rose from 16.2 million cords in 1953 to 26.6 million cords in 1963—an increase of 64 percent (fig. 4). With the exceptions of 1957, a recession year, and 1958, a year of recovery, a new alltime production record was set each succeeding year since 1953.

Pine roundwood production showed an overall increase of 21 percent during this interval, but has remained comparatively stable since 1959. In fact, pine roundwood expressed as a percent of total production has declined over the entire 10-year period. In 1953, pine roundwood supplied 87 percent of the total southern

pulpwood production volume. By 1963, it comprised only 64 percent. This decline of pine roundwood as a percent of total wood used is encouraging, for it indicates a trend toward fuller utilization of wood residues as well as the available hardwood resources in the South.

Over the same period, hardwood roundwood production has climbed from slightly less than 2 million cords to over 5 million cords. Although this increase has not been as spectacular as the increased use of wood residues, it is probably a more important trend. This is especially true now that the discovery of new techniques and production methods enables the pulp industry to use sizable quantities of firm-textured hardwood species. A better balance between the use of hardwood and softwood species for pulpwood could exert a favorable influence on timber management in the region. Although the popularity of southern yellow pine will certainly continue its dominating influence on timber management in the South, the management of hardwood species on short-term rotations for pulpwood deserves more attention.

Wood Residues

The progress made in the utilization of wood residues for pulpwood in the South during the past decade is pointed out in figure 4. With the decline in use of these residues for fuel, their disposition began to focus on the pulp industry about 1953. As a result, debarkers

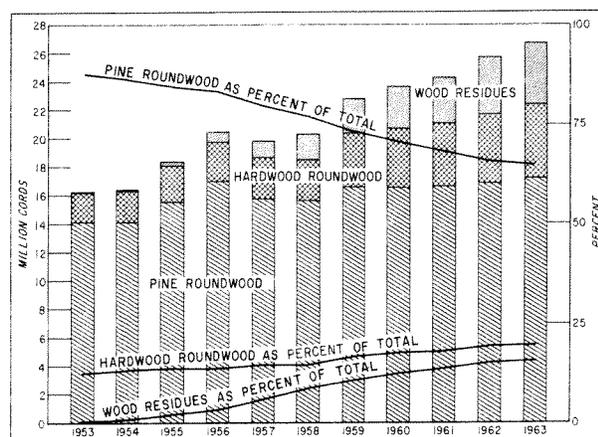


Figure 4. Ten-year pulpwood production in the South.

and chipping facilities are now commonly found at sawmills and veneer plants throughout the region. The use of wood residues for pulpwood soared from 76,000 cords in 1953 to slightly over 4 million cords in 1963.

Sawmills provide the bulk of residue material from their slabs and edgings. Sizable quantities of hardwood chips are obtained from veneer cores. In addition, many veneer mills have installed a second chipper for their round-up and clip waste.

Mill Procurement Patterns

The number of counties from which four or more mills draw pine roundwood has steadily decreased since 1959. This indicates that some of the mills are drawing in their pine procurement territories. Most of the companies have brought large land acreages under their control within the vicinities of their plants to protect their investments, and both land acquisitions and long-term leases have been used. Improved timber management on these company lands is increasing pulpwood production near the mills. Continuing expansion of existing pulping facilities, however, tends to offset part of the ability of the companies to grow a larger percentage of their own pulpwood. Also, a larger percent of the wood supply is coming from the wood residues of other primary wood users. A few years ago large quantities of nearby residues were passed up in the quest for roundwood. In addition, most of the companies are now using sizable quantities of hardwood. Nearby hardwoods were also overlooked in search of pine to feed the mills. The availability of these hardwoods, especially on company lands, helped speed up the introduction

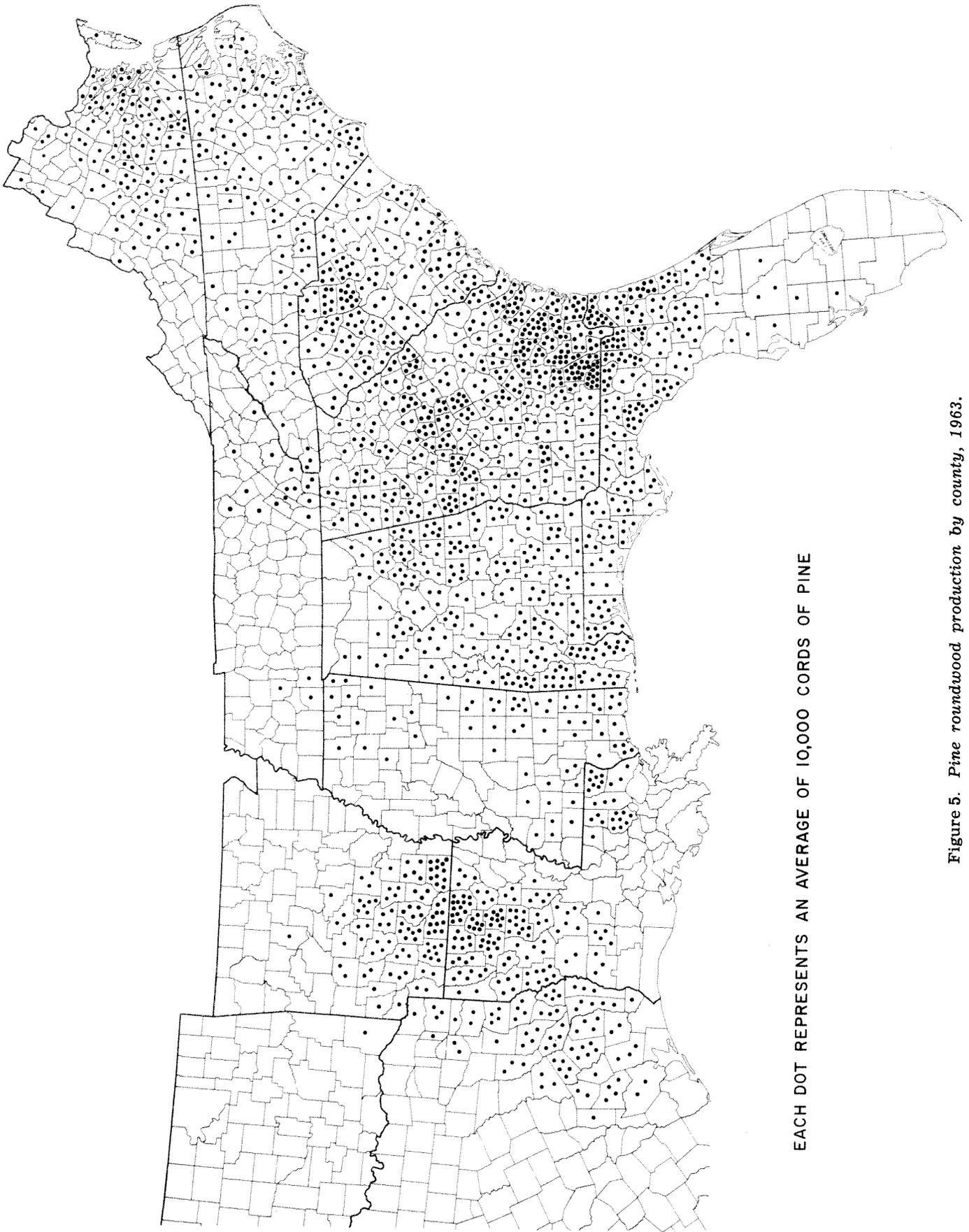
of new techniques which made their use more common.

In recent years a greater percent of the pulpwood cut in the South has been trucked directly to the mills. The dependable and well-equipped producer has emerged and is relied upon to provide a more stable wood supply, resulting in a smaller percent of the wood being shipped from rail sidings. Attempts have been made to reduce transportation costs, such as eliminating rail shipments that require two railroads. As the use of hardwood increases, its procurement seems to be tending toward a pattern similar to that for pine. The number of counties from which four or more mills draw hardwood roundwood reached a peak in 1960.

OUTLOOK

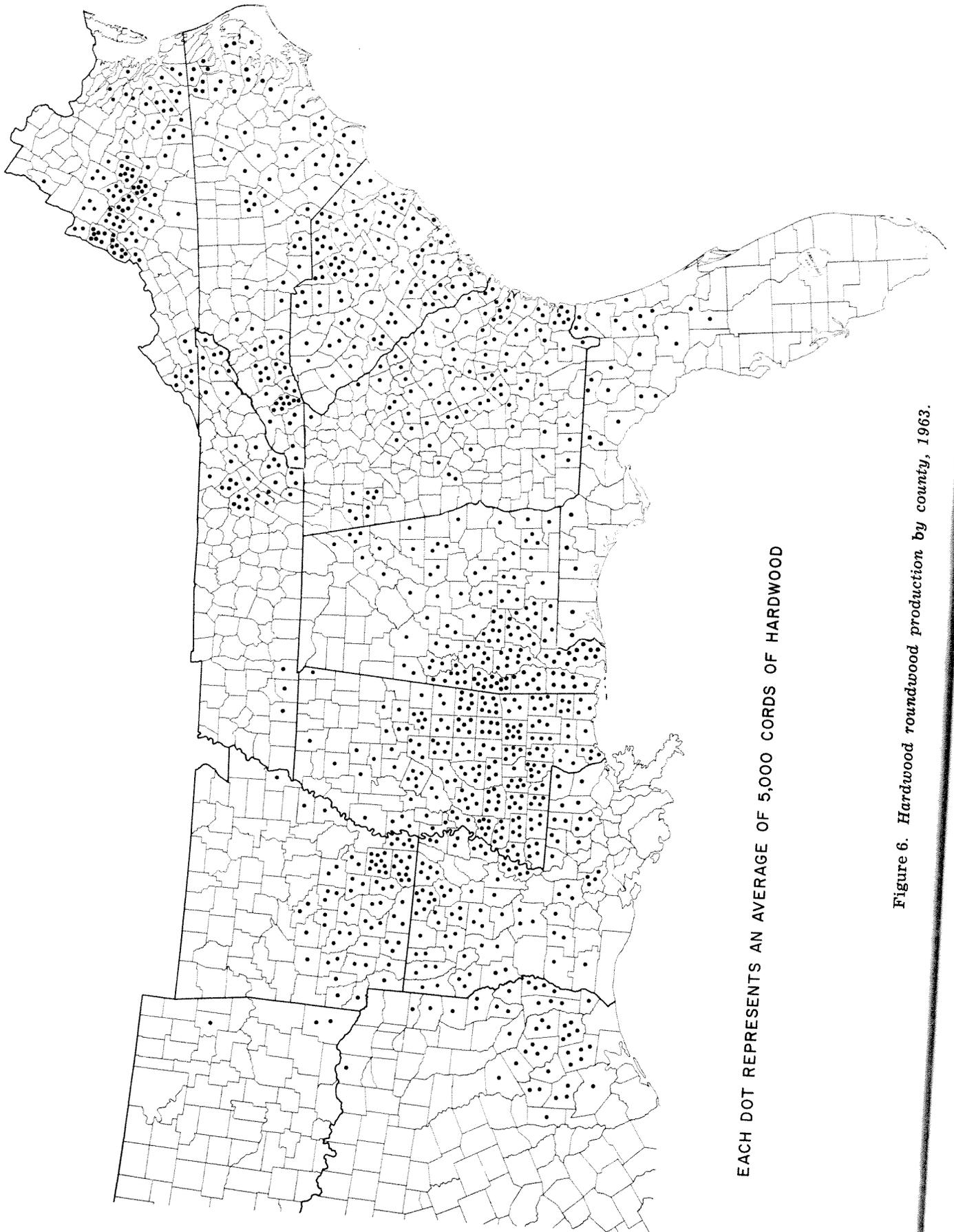
Various studies indicate that our population may reach 350 million people by the end of this century. Projections of prospective demands for timber products show that the consumption of pulp, paper, and board may triple by the year 2000. Inevitably, the southern pulpwood industry will play a leading role in supplying such a demand.

Pressure will continue on the pulpwood producer to reduce costs. He will have to depend upon the development of improved harvesting techniques to replace or make more efficient the traditional short-stick pulpwood harvest operation. Tree-length barking and chipping equipment is being installed at one of the new mills now under construction. Decentralized roundwood chipping installations are now found in a few areas and could become more popular.



EACH DOT REPRESENTS AN AVERAGE OF 10,000 CORDS OF PINE

Figure 5. Pine roundwood production by county, 1963.



EACH DOT REPRESENTS AN AVERAGE OF 5,000 CORDS OF HARDWOOD

Figure 6. *Hardwood roundwood production by county, 1963.*

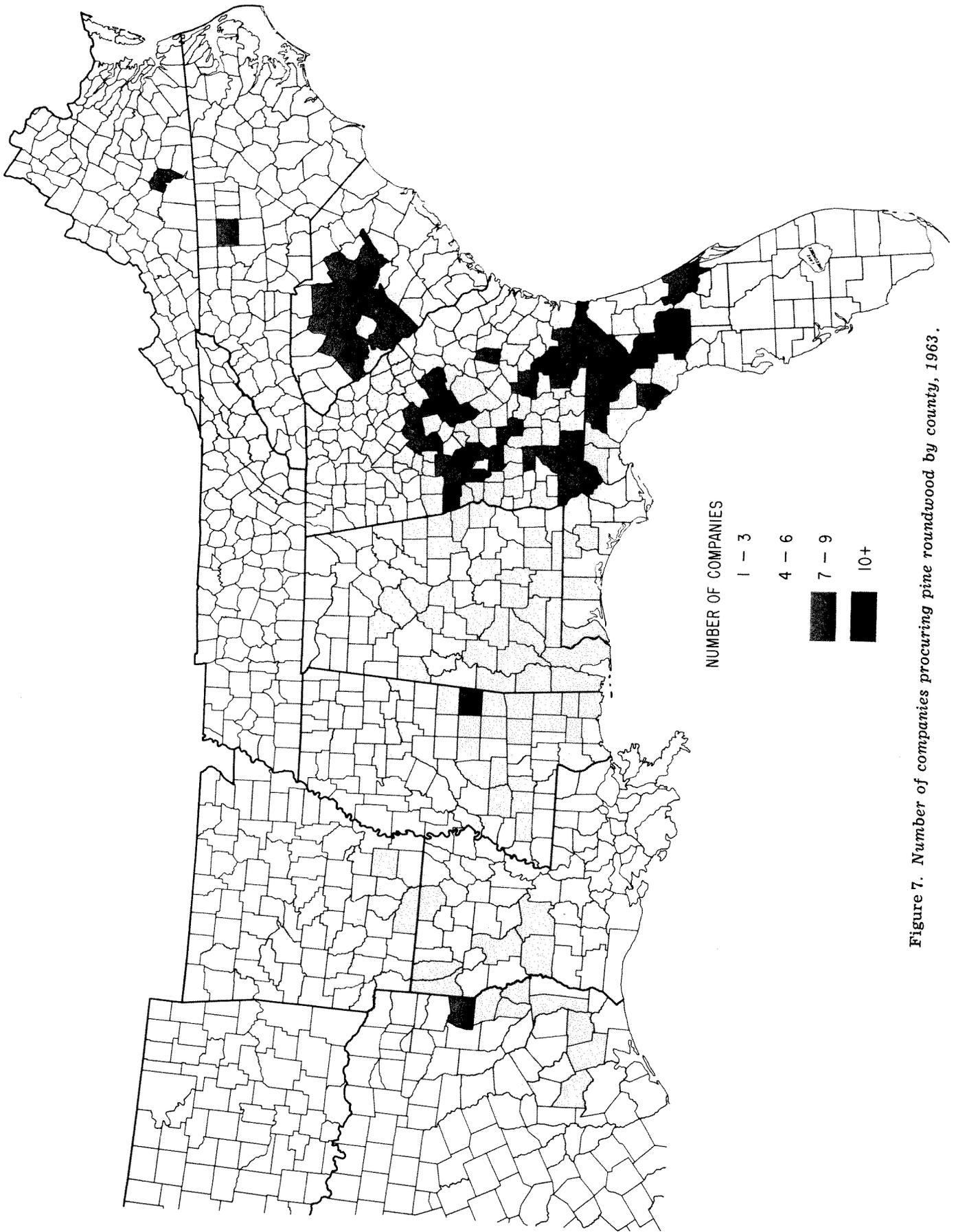


Figure 7. Number of companies procuring pine roundwood by county, 1963.

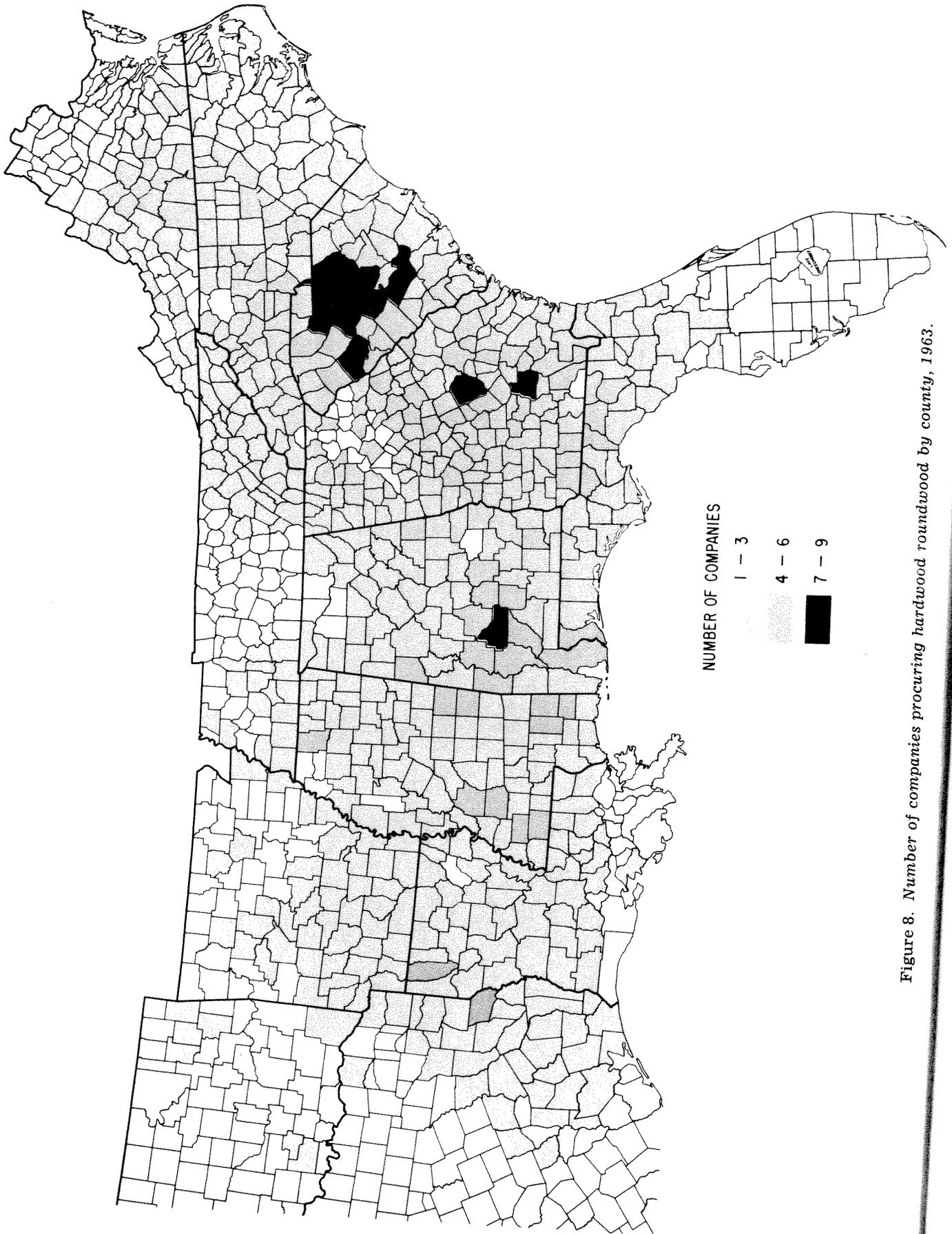


Figure 8. Number of companies procuring hardwood roundwood by county, 1963.



Figure 9. Southern counties of Texas

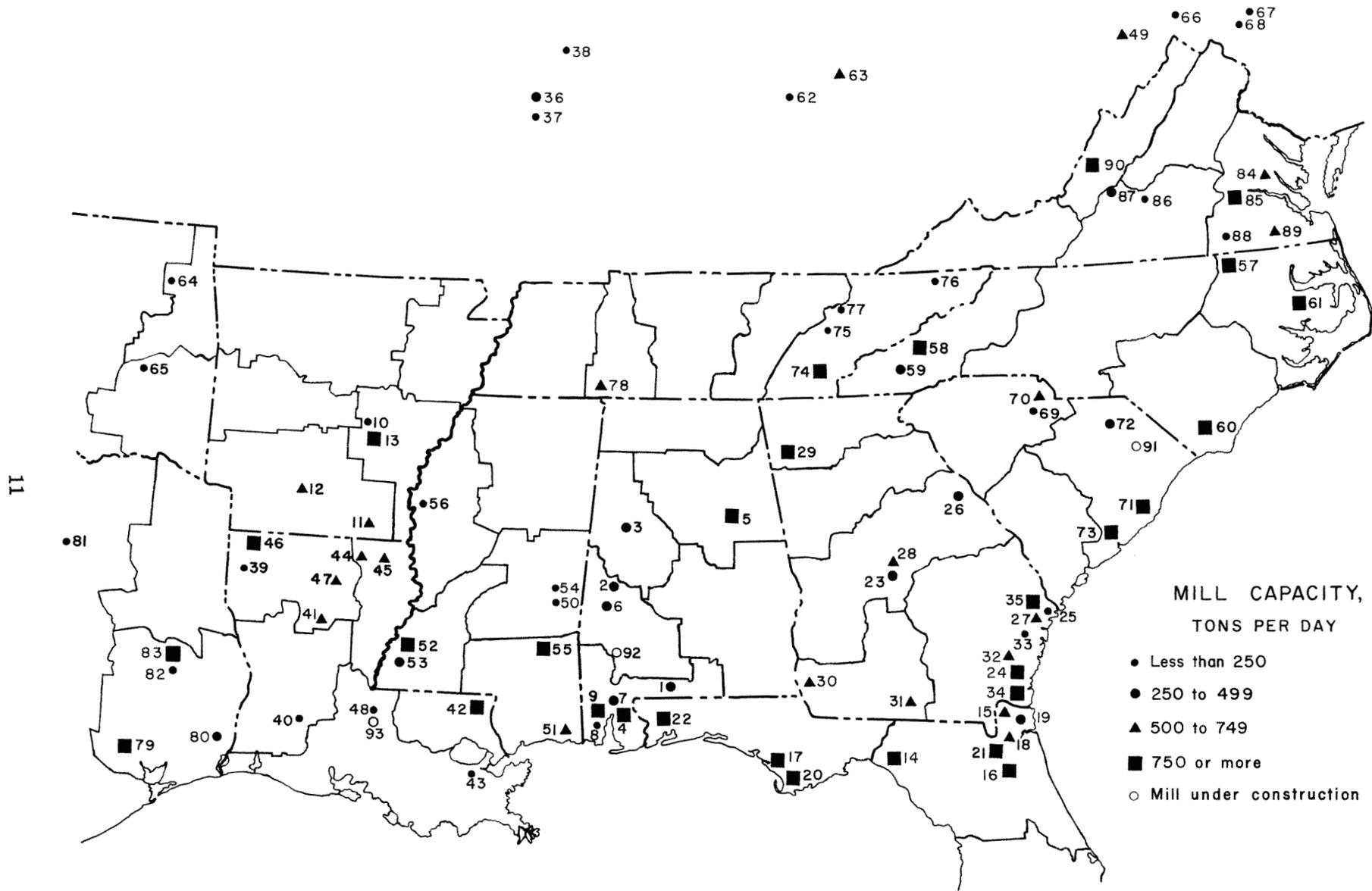


Figure 10. Mills using southern pulpwood in 1963, and those under construction. The areas delineated within states are Forest Survey regions. Small numbers at mill locations correspond to numbers in table 19.

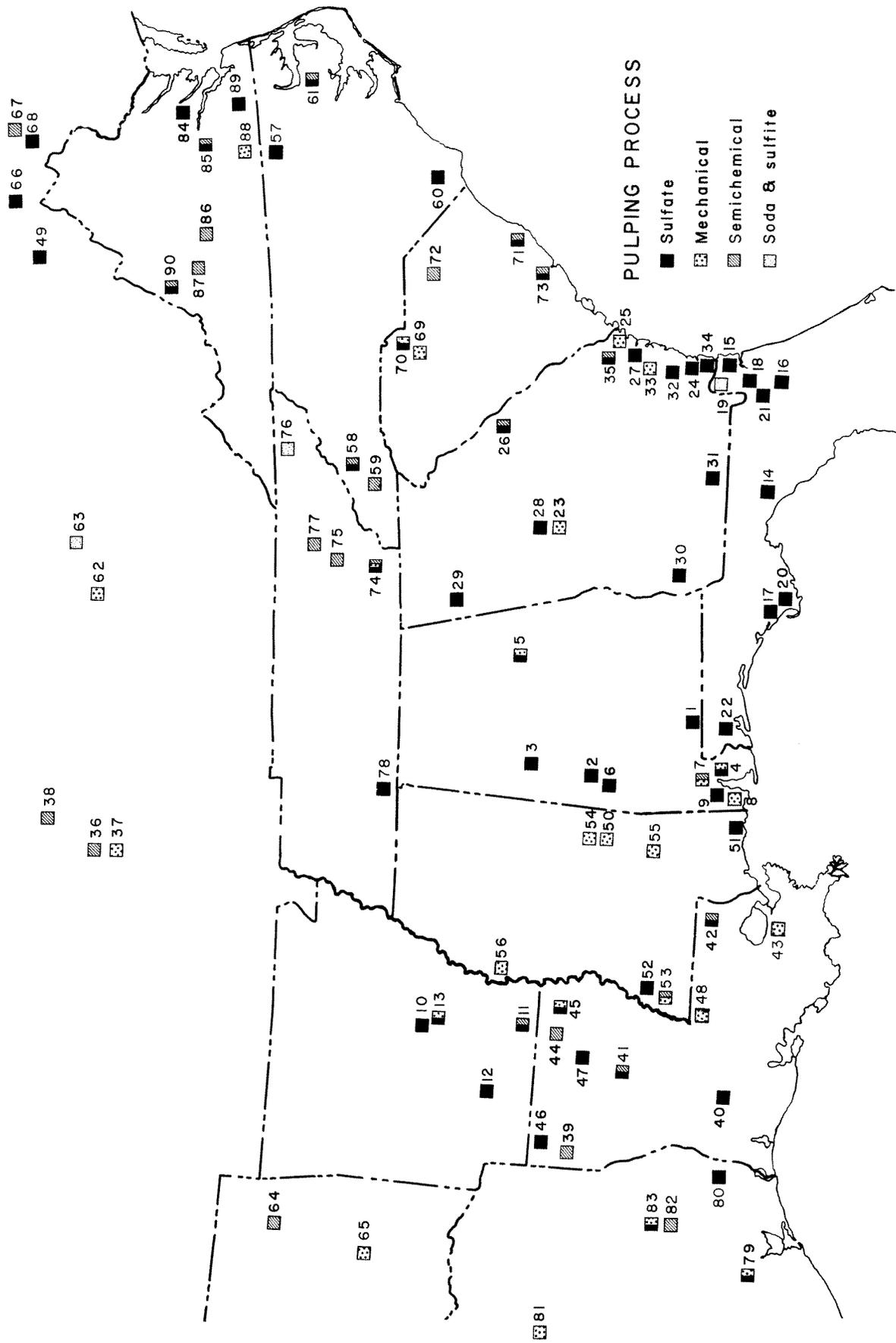


Figure 11. Mills using southern pulpwood in 1963, by process. Numbers correspond to those in table 19.

DETAILED TABLES

Table 3. Round pulpwood production in the South, by State and species group, 1963 and 1962

State	Change from 1962	1963			1962		
		All species	Pine	Hardwood	All species	Pine	Hardwood
		Percent			----- Thousand cords -----		
Alabama	+ 6	3,014.1	2,325.1	689.0	2,842.5	2,174.4	668.1
Arkansas	+ 5	1,372.1	1,003.1	369.0	1,310.0	974.0	336.0
Florida	+ 2	2,289.0	2,121.6	167.4	2,252.6	2,111.5	141.1
Georgia	+ 5	4,800.7	4,269.8	530.9	4,556.3	4,057.5	498.8
Louisiana	+10	1,968.5	1,503.0	465.5	1,782.8	1,375.9	406.9
Mississippi	- 7	1,706.2	683.2	1,023.0	1,831.9	858.6	973.3
North Carolina	+ 3	1,898.2	1,439.1	459.1	1,849.9	1,390.2	459.7
Oklahoma	-21	25.2	6.5	18.7	31.7	10.7	21.0
South Carolina	- 3	2,024.3	1,509.3	515.0	2,092.0	1,615.2	476.8
Tennessee	- 3	395.8	198.6	197.2	409.8	201.5	208.3
Texas	- 3	1,063.0	820.3	242.7	1,091.4	838.2	253.2
Virginia	+ 5	1,772.0	1,235.5	536.5	1,685.9	1,159.5	526.4
All states	+ 3	22,329.1	17,115.1	5,214.0	21,736.8	16,767.2	4,969.6

Table 4. Wood residues used for pulp manufacture in the South, by State and species group, 1963 and 1962

State	Change from 1962	1963			1962		
		All species	Pine	Hardwood	All species	Pine	Hardwood
		Percent			----- Thousand cords -----		
Alabama	+ 5	635.7	477.4	158.3	605.7	456.4	149.3
Arkansas	+14	478.3	461.2	17.1	419.8	407.4	12.4
Florida	+13	238.9	194.9	44.0	211.9	174.4	37.5
Georgia	+ 9	719.7	621.8	97.9	660.7	559.9	100.8
Louisiana	+21	269.7	242.6	27.1	223.4	204.5	18.9
Mississippi	+ 7	287.0	214.1	72.9	268.1	206.1	62.0
North Carolina	+11	524.7	417.5	107.2	474.0	383.3	90.7
Oklahoma	+43	39.4	39.4	...	27.6	27.6	...
South Carolina	+13	438.9	344.7	94.2	389.5	307.7	81.8
Tennessee	+37	30.9	10.6	20.3	22.5	9.8	12.7
Texas	+13	380.6	352.2	28.4	338.2	324.7	13.5
Virginia	+ 5	218.1	165.2	52.9	208.1	165.3	42.8
All states	+11	4,261.9	3,541.6	720.3	3,849.5	3,227.1	622.4

Table 5. Wood residues used for pulp manufacture in the South, by State and type of residue, 1963

State	All types	Chips			Other residues ¹		
		All species	Pine	Hardwood	All species	Pine	Hardwood
		----- Thousand cords -----					
Alabama	635.7	626.5	475.5	151.0	9.2	1.9	7.3
Arkansas	478.3	477.8	460.7	17.1	.5	.5	...
Florida	238.9	237.8	194.9	42.9	1.1	...	1.1
Georgia	719.7	704.1	621.3	82.8	15.6	.5	15.1
Louisiana	269.7	268.2	242.2	26.0	1.5	.4	1.1
Mississippi	287.0	276.2	212.4	63.8	10.8	1.7	9.1
North Carolina	524.7	508.1	416.5	91.6	16.6	1.0	15.6
Oklahoma	39.4	39.4	39.4	...	...	...	...
South Carolina	438.9	432.6	343.6	89.0	6.3	1.1	5.2
Tennessee	30.9	30.7	10.6	20.1	.2	...	.2
Texas	380.6	380.6	352.2	28.4	(²)	(²)	...
Virginia	218.1	213.0	165.2	47.8	5.1	...	5.1
All states	4,261.9	4,195.0	3,534.5	660.5	66.9	7.1	59.8

¹ Veneer cores, pole and piling trim, cull crossties, secondary residues.

² Negligible.

Table 6. Southern pulpwood production by Experiment Station territory, 1963

Station and source of wood	All species	Pine	Hardwood
--- Standard cords ---			
Southeastern			
Roundwood	12,784,157	10,575,290	2,208,867
Residues	2,140,312	1,744,147	396,165
Total	14,924,469	12,319,437	2,605,032
Southern			
Roundwood	9,544,885	6,539,814	3,005,071
Residues	2,121,643	1,797,473	324,170
Total	11,666,528	8,337,287	3,329,241
All pulpwood	26,590,997	20,656,724	5,934,273

Table 7. Round pulpwood production in Alabama, 1963

County	All species	Pine	Hardwood	County	All species	Pine	Hardwood
--- Standard cords ---				--- Standard cords ---			
Autauga	9,379	5,565	3,814	Houston	13,838	11,301	2,537
Baldwin	226,566	164,185	62,381	Jackson	5,051	4,993	58
Barbour	35,094	31,415	3,679	Jefferson	27,641	27,005	636
Bibb	48,122	42,371	5,751	Lamar	3,117	2,862	255
Blount	3,527	3,476	51	Lauderdale	2,320	1,978	342
Bullock	16,224	14,521	1,703	Lawrence	396	396	...
Butler	53,803	40,017	13,786	Lee	30,518	26,606	3,912
Calhoun	67,699	64,638	3,061	Limestone	3,147	3,147	...
Chambers	20,035	19,801	234	Lowndes	33,616	24,308	9,308
Cherokee	36,396	22,781	13,615	Macon	8,383	8,383	...
Chilton	20,353	16,660	3,693	Madison	1,111	1,111	...
Choctaw	164,211	102,573	61,638	Marengo	86,021	52,241	33,780
Clarke	118,385	74,134	44,251	Marion	16,850	15,953	897
Clay	40,897	34,237	6,660	Marshall	17,463	17,013	450
Cleburne	47,064	45,587	1,477	Mobile	125,370	89,416	35,954
Coffee	40,325	33,230	7,095	Monroe	108,421	71,824	36,597
Colbert	11,808	11,132	676	Montgomery	61,519	50,797	10,722
Conecuh	70,521	39,741	30,780	Morgan	1,975	1,975	...
Coosa	68,085	56,973	11,112	Perry	25,501	16,848	8,653
Covington	54,745	48,644	6,101	Pickens	40,267	29,780	10,487
Crenshaw	25,975	18,282	7,693	Pike	59,966	47,681	12,285
Cullman	6,350	6,346	4	Randolph	61,770	55,151	6,619
Dale	52,697	38,882	13,815	Russell	46,481	46,465	16
Dallas	19,904	13,414	6,490	St. Clair	62,656	58,869	3,787
De Kalb	23,086	19,786	3,300	Shelby	38,132	34,687	3,445
Elmore	27,005	24,763	2,242	Sumter	80,995	41,008	39,987
Escambia	74,392	51,916	22,476	Talladega	42,575	40,885	1,690
Etowah	40,848	35,555	5,293	Tallapoosa	83,463	69,628	13,835
Fayette	19,488	19,262	226	Tuscaloosa	63,630	60,322	3,308
Franklin	8,206	7,126	1,080	Walker	49,751	49,394	357
Geneva	19,232	17,478	1,754	Washington	138,944	106,016	32,928
Greene	36,182	20,329	15,853	Wilcox	96,314	55,797	40,517
Hale	25,436	15,781	9,655	Winston	13,782	13,714	68
Henry	31,106	26,975	4,131	All counties	3,014,130	2,325,130	689,000

Table 8. Round pulpwood production in Arkansas, 1963

County	All species	Pine	Hardwood	County	All species	Pine	Hardwood
--- Standard cords ---				--- Standard cords ---			
Arkansas	73	...	73	Lincoln	16,914	7,920	8,994
Ashley	162,687	118,528	44,159	Little River	8,741	5,562	3,179
Baxter	...	...	...	Logan	3,206	3,100	106
Benton	58	58	...	Lonoke	59	7	52
Boone	5	5	...	Madison	...	...	...
Bradley	49,590	34,633	14,957	Marion	...	...	...
Calhoun	63,490	53,912	9,578	Miller	21,648	16,064	5,584
Carroll	...	...	...	Mississippi	1,454	...	1,454
Chicot	26,009	...	26,009	Monroe	...	...	...
Clark	59,704	42,482	17,222	Montgomery	27,479	20,715	6,764
Clay	...	...	...	Nevada	39,717	32,805	6,912
Cleburne	8	8	...	Newton	17	15	2
Cleveland	52,201	38,818	13,383	Ouahcita	81,325	67,401	13,924
Columbia	98,654	81,278	17,376	Perry	2,564	2,546	18
Conway	664	552	112	Phillips	6,559	3	6,556
Craighead	3	3	...	Pike	32,957	22,886	10,071
Crawford	6	6	...	Poinsett	...	...	...
Crittenden	5,626	...	5,626	Polk	660	657	3
Cross	...	...	...	Pope	15,015	13,678	1,337
Dallas	49,212	38,717	10,495	Prairie	...	...	...
Desha	2,163	...	2,163	Pulaski	9,779	8,367	1,412
Drew	96,140	47,189	48,951	Randolph	...	...	...
Faulkner	6	6	...	St. Francis	4	4	...
Franklin	5	5	...	Saline	32,249	22,740	9,509
Fulton	...	...	...	Scott	63	63	...
Garland	19,567	14,426	5,141	Searcy	...	...	...
Grant	78,953	62,486	16,467	Sebastian	...	...	...
Greene	...	...	...	Sevier	12,504	9,562	2,942
Hempstead	37,938	30,203	7,735	Sharp	...	...	...
Hot Spring	34,788	25,011	9,777	Stone	...	...	...
Howard	18,433	14,583	3,850	Union	126,673	111,565	15,108
Independence	11	9	2	Van Buren	182	182	...
Izard	4	...	4	Washington	...	...	...
Jackson	...	...	...	White	...	...	...
Jeffesron	36,054	25,381	10,673	Woodruff	...	...	...
Johnson	2,480	2,341	139	Yell	4,692	3,948	744
Lafayette	29,485	22,628	6,857	All counties	1,372,070	1,003,058	369,012
Lawrence	...	...	...	
Lee	3,592	...	3,592				

Table 9. Round pulpwood production in Florida, 1963

County	All species	Pine	Hardwood	County	All species	Pine	Hardwood
--- Standard cords ---				--- Standard cords ---			
Alachua	55,565	50,483	5,082	Lake	31,103	20,498	10,605
Baker	110,371	109,811	560	Lee	677	677	...
Bay	42,577	42,261	316	Leon	35,904	35,599	305
Bradford	51,182	49,720	1,462	Levy	39,422	38,922	500
Brevard	112	112	...	Liberty	49,800	49,503	297
Broward	...	...	...	Madison	54,995	52,748	2,247
Calhoun	37,442	36,385	1,057	Manatee	1,196	1,196	...
Charlotte	9,064	9,064	...	Marion	126,618	116,794	9,824
Citrus	1,237	1,237	...	Martin	443	443	...
Clay	73,072	64,456	8,616	Monroe	...	...	...
Collier	2,041	2,041	...	Nassau	154,111	136,762	17,349
Columbia	102,123	97,976	4,147	Okaloosa	25,525	24,371	1,154
Dade	2,930	2,930	...	Okeechobee	2,549	2,549	...
De Soto	3,307	3,307	...	Orange	2,853	2,853	...
Dixie	74,021	65,704	8,317	Osceola	12,007	12,007	...
Duval	74,840	69,635	5,205	Palm Beach	241	241	...
Escambia	75,680	68,331	7,349	Pasco	7,321	7,321	...
Flagler	66,287	64,460	1,827	Pinellas	117	117	...
Franklin	26,720	26,526	194	Polk	20,358	20,358	...
Gadsden	20,897	19,673	1,224	Putnam	79,763	64,136	15,627
Gilchrist	11,080	10,080	1,000	St. Johns	95,364	89,882	5,482
Glades	349	349	...	St. Lucie	...	...	...
Gulf	12,868	12,685	183	Santa Rosa	71,781	66,850	4,931
Hamilton	79,329	67,048	12,281	Sarasota	1,675	1,675	...
Hardee	5,872	5,872	...	Seminole	5,987	5,987	...
Hendry	3,300	3,300	...	Sumter	5,234	4,434	800
Hernando	9,727	8,860	867	Suwannee	26,115	19,527	6,588
Highlands	1,183	1,183	...	Taylor	151,283	147,209	4,074
Hillsborough	5,059	5,059	...	Union	12,390	11,659	731
Holmes	37,016	34,005	3,011	Volusia	65,437	65,437	...
Indian River	...	...	...	Wakulla	32,831	32,531	300
Jackson	46,513	40,146	6,367	Walton	42,548	36,567	5,981
Jefferson	34,890	27,320	7,570	Washington	38,797	36,306	2,491
Lafayette	17,961	16,450	1,511	All counties	2,289,060	2,121,628	167,432

Table 10. Round pulpwood production in Georgia, 1963

County	All species	Pine	Hardwood	County	All species	Pine	Hardwood
--- Standard cords ---				--- Standard cords ---			
Appling	89,296	85,454	3,842	Hall	42,740	42,740	...
Atkinson	61,941	58,232	3,709	Hancock	24,986	21,864	3,122
Bacon	39,829	36,220	3,609	Haralson	21,892	20,862	1,030
Baker	10,351	9,945	406	Harris	44,212	42,609	1,603
Baldwin	40,518	38,627	1,891	Hart	500	500	...
Banks	5,931	5,931	...	Heard	21,173	20,943	230
Barrow	1,229	1,229	...	Henry	19,486	19,311	175
Bartow	27,049	22,548	4,501	Houston	15,301	13,717	1,584
Ben Hill	22,149	17,753	4,396	Irwin	17,424	15,219	2,205
Berrien	46,132	39,610	6,522	Jackson	17,806	17,540	266
Bibb	10,129	8,579	1,550	Jasper	51,703	45,182	6,521
Bleckley	17,777	14,020	3,757	Jeff Davis	55,011	51,825	3,186
Brantley	82,958	70,978	11,980	Jefferson	21,307	17,138	4,169
Brooks	19,324	16,427	2,897	Jenkins	15,590	10,090	5,500
Bryan	82,689	73,752	8,937	Johnson	14,871	11,621	3,250
Bulloch	46,669	39,544	7,125	Jones	46,832	43,581	3,251
Burke	20,166	12,639	7,527	Lamar	8,064	7,938	126
Butts	17,458	16,229	1,229	Lanier	22,459	22,159	300
Calhoun	18,463	17,169	1,294	Laurens	36,099	26,699	9,400
Camden	131,093	102,635	28,458	Lee	9,851	9,800	51
Candler	13,238	11,476	1,762	Liberty	114,129	88,040	26,089
Carroll	44,210	43,137	1,073	Lincoln	19,154	15,905	3,249
Catoosa	3,364	3,290	74	Long	58,886	52,674	6,212
Charlton	89,739	80,053	9,686	Lowndes	17,464	17,214	250
Chatham	26,210	16,188	10,022	Lumpkin	5,076	5,076	...
Chattahoochee	15,017	14,903	114	McDuffie	46,250	38,935	7,315
Chattooga	16,252	14,069	2,183	McIntosh	25,456	22,235	3,221
Cherokee	27,727	27,123	604	Macon	25,928	19,693	6,235
Clarke	...	...	...	Madison	3,351	2,825	526
Clay	14,626	13,443	1,183	Marion	13,847	13,323	524
Clayton	4,515	4,389	126	Meriwether	45,918	44,217	1,701
Clinch	166,315	164,972	1,343	Miller	7,327	7,207	120
Cobb	17,047	16,898	149	Mitchell	24,193	19,885	4,308
Coffee	67,759	59,887	7,872	Monroe	58,801	54,549	4,252
Colquitt	28,898	24,746	4,152	Montgomery	19,930	16,682	3,248
Columbia	31,678	26,820	4,858	Morgan	27,163	23,564	3,599
Cook	9,332	9,089	243	Murray	18,239	17,892	347
Coweta	25,354	24,954	400	Muscogee	14,108	13,532	576
Crawford	25,622	23,581	2,041	Newton	21,960	19,437	2,523
Crisp	23,365	22,654	711	Oconee	4,136	3,874	262
Dade	918	917	1	Oglethorpe	17,140	15,173	1,967
Dawson	1,555	1,550	5	Paulding	41,087	27,792	13,295
Decatur	28,616	26,994	1,622	Peach	9,034	8,756	278
De Kalb	4,164	4,164	...	Pickens	16,676	16,210	466
Dodge	74,210	64,535	9,675	Pierce	45,118	42,625	2,493
Dooly	17,220	15,616	1,604	Pike	3,353	1,906	1,447
Dougherty	52,821	51,604	1,217	Polk	28,434	19,311	9,123
Douglas	26,653	24,829	1,824	Pulaski	20,486	19,066	1,420
Early	20,574	20,127	447	Putman	46,512	43,448	3,064
Echols	132,348	132,348	...	Quitman	10,397	10,181	216
Effingham	54,866	48,488	6,378	Rabun	7,065	289	6,776
Elbert	28,052	23,756	4,296	Randolph	17,657	16,743	914
Emanuel	40,823	32,672	8,151	Richmond	6,929	3,487	3,442
Evans	15,694	12,943	2,751	Rockdale	3,162	3,162	...
Fannin	4,598	3,619	979	Schley	7,659	6,072	1,587
Fayette	17,509	17,026	483	Screven	28,146	21,595	6,551
Floyd	30,269	18,541	11,728	Seminole	10,455	10,241	214
Forsyth	3,404	3,404	...	Spalding	7,958	7,669	289
Franklin	8,609	8,609	...	Stephens	2,721	2,721	...
Fulton	13,338	13,338	...	Stewart	23,344	22,573	771
Gilmer	5,731	5,614	117	Sumter	13,672	13,197	475
Glascock	2,675	2,299	376	Talbot	67,412	56,149	11,263
Glynn	57,450	46,325	11,125	Taliaferro	7,555	6,755	800
Gordon	17,641	15,918	1,723	Tattall	45,066	35,968	9,098
Grady	25,909	23,118	2,791	Taylor	17,551	17,097	454
Greene	59,573	47,602	11,971				
Gwinnett	43,676	42,890	786				
Habersham	11,420	11,352	68				

Table 10. Round pulpwood production in Georgia, 1963 (Continued)

County	All species	Pine	Hardwood	County	All species	Pine	Hardwood
--- Standard cords ---				--- Standard cords ---			
Telfair	59,970	46,779	13,191	Walton	3,439	3,439	...
Terrell	11,555	11,400	155	Ware	158,800	152,785	6,015
Thomas	29,234	22,710	6,524	Warren	20,240	17,694	2,546
Tift	8,920	7,770	1,150	Washington	37,401	32,936	4,465
Toombs	39,455	33,237	6,218	Wayne	152,323	141,939	10,384
Towns	...	...	...	Webster	16,142	15,375	767
Treutlen	22,648	18,698	3,950	Wheeler	42,173	32,879	9,294
Troup	72,035	69,565	2,470	White	2,785	2,785	...
Turner	20,947	16,931	4,016	Whitfield	13,756	13,498	258
Twiggs	47,661	38,666	8,995	Wilcox	23,707	22,543	1,164
Union	1,685	1,492	193	Wilkes	26,192	22,705	3,487
Upson	52,821	48,165	4,656	Wilkinson	76,248	66,594	9,654
Walker	17,191	16,141	1,050	Worth	18,434	17,443	991
				All counties	4,800,709	4,269,843	530,866

Table 11. Round pulpwood production in Louisiana, 1963

Parish	All species	Pine	Hardwood	Parish	All species	Pine	Hardwood
--- Standard cords ---				--- Standard cords ---			
Acadia	2,640	2,085	555	Madison	10,501	...	10,501
Allen	51,641	41,335	10,306	Morehouse	68,311	43,326	24,985
Ascension	7	...	7	Natchitoches	56,924	45,451	11,473
Assumption	...	...	...	Orleans	...	...	...
Avoyelles	3,736	3,374	362	Ouachita	52,281	35,890	16,391
Beauregard	31,023	25,565	5,458	Plaquemines	...	...	...
Bienville	107,096	91,934	15,162	Pointe Coupee	1,328	...	1,328
Bossier	77,841	60,871	16,970	Rapides	73,137	57,881	15,256
Caddo	27,688	19,115	8,573	Red River	26,450	19,015	7,435
Calcasieu	8,774	4,906	3,868	Richland	...	...	...
Caldwell	34,984	31,011	3,973	Sabine	90,978	78,984	11,994
Cameron	...	...	...	St. Bernard	...	...	...
Catahoula	15,863	8,828	7,035	St. Charles	...	...	...
Claiborne	78,995	73,097	5,898	St. Helena	37,443	26,057	11,386
Concordia	27,262	...	27,262	St. James	...	...	...
De Soto	69,923	52,836	17,087	St. John the Baptist	...	...	...
East Baton Rouge	5,238	64	5,174	St. Landry	14,091	167	13,924
East Carroll	8,094	...	8,094	St. Martin	20,534	...	20,534
East Feliciana	13,231	5,530	7,701	St. Mary	4	...	4
Evangeline	9,289	5,318	3,971	St. Tammany	29,371	26,116	3,255
Franklin	2,535	655	1,880	Tangipahoa	35,781	25,714	10,067
Grant	39,493	33,633	5,860	Tensas	15,675	...	15,675
Iberia	...	...	...	Terrebonne	...	...	...
Iberville	6	...	6	Union	182,808	144,731	38,077
Jackson	111,768	94,401	17,367	Vermilion	...	...	...
Jefferson	...	...	...	Vernon	18,994	16,823	2,171
Jefferson Davis	3,422	1,685	1,737	Washington	85,372	76,561	8,811
Lafayette	...	...	...	Webster	53,697	43,267	10,430
Lafourche	...	...	...	West Baton Rouge	449	...	449
La Salle	50,125	43,574	6,551	West Carroll	15	...	15
Lincoln	79,339	67,088	12,251	West Feliciana	7,141	590	6,551
Livingston	95,932	80,491	15,441	Winn	131,291	115,021	16,270
				All parishes	1,968,521	1,502,990	465,531

Table 12. Round pulpwood production in Mississippi, 1963

County	All species	Pine	Hardwood	County	All species	Pine	Hardwood
--- Standard cords ---				--- Standard cords ---			
Adams	16,225	1,619	14,606	Lincoln	33,177	8,923	24,254
Alcorn	8,951	6,705	2,246	Lowndes	4,986	3,805	1,181
Amite	24,954	5,843	19,111	Madison	13,983	1,464	12,519
Attala	20,640	1,431	19,209	Marion	50,335	19,878	30,457
Benton	3,264	1,900	1,364	Marshall	9,632	5,324	4,308
Bolivar	7,375	...	7,375	Monroe	1,597	1,575	22
Calhoun	2,493	1,598	895	Montgomery	4,806	437	4,369
Carroll	7,684	339	7,345	Neshoba	22,345	6,634	15,711
Chickasaw	10,419	9,576	843	Newton	32,223	7,754	24,469
Choctaw	13,560	3,475	10,085	Noxubee	12,634	8,057	4,577
Claiborne	34,853	3,342	31,511	Oktoberbeha	6,793	3,933	2,860
Clarke	81,089	45,564	35,525	Panola	2,720	...	2,720
Clay	9,169	6,367	2,802	Pearl River	27,190	13,138	14,052
Coahoma	77	...	77	Perry	34,505	20,766	13,739
Copiah	42,156	7,543	34,613	Pike	26,780	8,833	17,947
Covington	26,767	2,116	24,651	Pontotoc	5,177	4,253	924
De Soto	...	...	...	Prentiss	10,303	8,323	1,980
Forrest	24,017	10,345	13,672	Quitman	792	...	792
Franklin	38,273	15,673	22,600	Rankin	33,773	4,586	29,187
George	43,473	25,573	17,900	Scott	19,620	5,524	14,096
Greene	73,464	44,871	28,593	Sharkey	2,691	...	2,691
Grenada	5,549	1,501	4,048	Simpson	29,618	7,267	22,351
Hancock	55,342	37,753	17,589	Smith	15,145	1,043	14,102
Harrison	23,794	19,674	4,120	Stone	26,702	17,092	9,610
Hinds	33,598	2,576	31,022	Sunflower	...	...	...
Holmes	25,513	316	25,197	Tallahatchie	2,622	58	2,564
Humphreys	2,888	...	2,888	Tate	...	...	...
Issaquena	8,929	...	8,929	Tippah	14,456	12,845	1,611
Itawamba	5,658	5,222	436	Tishomingo	29,080	22,909	6,171
Jackson	56,105	42,628	13,477	Tunica	...	...	...
Jasper	48,418	16,105	32,313	Union	7,741	7,127	614
Jefferson	33,344	8,021	25,323	Walthall	17,939	6,258	11,681
Jefferson Davis	6,654	1,676	4,978	Warren	17,530	506	17,024
Jones	46,616	8,901	37,715	Washington	13,098	12	13,086
Kemper	27,914	19,386	8,528	Wayne	50,504	31,218	19,286
Lafayette	9,571	7,908	1,663	Webster	17,351	13,179	4,172
Lamar	25,393	4,481	20,912	Wilkinson	22,034	2,554	19,480
Lauderdale	59,636	31,348	28,288	Winston	30,607	3,787	26,820
Lawrence	31,383	8,172	23,211	Yalobusha	12,905	5,902	7,003
Leake	29,192	3,806	25,386	Yazoo	10,646	81	10,565
Lee	5,343	4,767	576				
Leflore	2,424	...	2,424	All counties	1,706,207	683,166	1,023,041

Table 13. Round pulpwood production in North Carolina, 1963

County	All species	Pine	Hardwood	County	All species	Pine	Hardwood
--- Standard cords ---				--- Standard cords ---			
Alamance	4,339	3,990	349	Lee	11,082	7,734	3,348
Alexander	5,276	5,112	164	Lenoir	9,609	9,487	122
Alleghany	102	102	...	Lincoln	6,522	4,657	1,865
Anson	48,696	33,211	15,485	McDowell	21,646	13,904	7,742
Ashe	60	...	60	Macon	12,885	801	12,084
Avery	1,194	...	1,194	Madison	3,084	2,074	1,010
Beaufort	74,671	58,151	16,520	Martin	21,422	18,283	3,139
Bertie	43,572	34,512	9,060	Mecklenburg	23,334	20,000	3,334
Bladen	50,308	42,649	7,659	Mitchell	1,198	7	1,191
Brunswick	86,663	79,117	7,546	Montgomery	9,109	8,404	705
Buncombe	40,316	17,178	23,138	Moore	31,473	27,865	3,608
Burke	19,999	17,231	2,768	Nash	22,572	19,472	3,100
Cabarrus	10,067	8,518	1,549	New Hanover	7,388	7,260	128
Caldwell	12,499	9,945	2,554	Northampton	11,286	10,890	396
Camden	1,433	1,103	330	Onslow	77,050	70,525	6,525
Carteret	18,856	18,585	271	Orange	6,759	6,108	651
Caswell	624	534	90	Pamlico	13,876	13,204	672
Catawba	2,121	1,995	126	Pasquotank	2,235	1,597	638
Chatham	48,537	29,479	19,058	Pender	72,602	54,771	17,831
Cherokee	35,131	27,609	7,522	Perquimans	10,545	5,350	5,195
Chowan	13,356	7,931	5,425	Person	13,116	12,788	328
Clay	...	...	...	Pitt	16,453	15,367	1,086
Cleveland	14,719	12,840	1,879	Polk	10,316	3,635	6,681
Columbus	65,981	46,980	19,001	Randolph	1,556	1,516	40
Craven	34,916	30,257	4,659	Richmond	28,311	20,973	7,338
Cumberland	25,407	18,300	7,107	Robeson	19,020	13,210	5,810
Currituck	3,445	2,724	721	Rockingham	12,492	12,383	109
Dare	697	634	63	Rowan	3,290	2,780	510
Davidson	4,877	4,819	58	Rutherford	22,989	14,407	8,582
Davie	4,316	3,791	525	Sampson	42,165	34,185	7,980
Duplin	35,429	32,183	3,246	Scotland	12,791	9,613	3,178
Durham	20,629	20,402	227	Stanly	6,647	6,229	418
Edgecombe	7,832	7,391	441	Stokes	4,193	4,128	65
Forsyth	5,338	4,669	669	Surry	5,682	5,642	40
Franklin	39,303	30,563	8,740	Swain	8,368	5,417	2,951
Gaston	19,950	13,729	6,221	Transylvania	17,245	2,097	15,148
Gates	23,988	14,740	9,248	Tyrrell	30,659	21,998	8,661
Graham	1,091	664	427	Union	25,691	21,561	4,130
Granville	18,232	17,550	682	Vance	5,157	4,613	544
Greene	2,000	2,000	...	Wake	38,121	32,300	5,821
Guilford	16,689	15,253	1,436	Warren	30,665	28,276	2,389
Halifax	32,425	25,564	6,861	Washington	12,941	7,133	5,808
Harnett	9,691	6,257	3,434	Watauga	70	...	70
Haywood	8,795	2,574	6,221	Wayne	15,160	12,835	2,325
Henderson	20,463	7,597	12,866	Wilkes	6,122	6,122	...
Hertford	27,608	13,121	14,487	Wilson	8,800	6,033	2,767
Hoke	8,964	7,852	1,112	Yadkin	3,865	3,538	327
Hyde	25,053	19,987	5,066	Yancey	1,211	...	1,211
Iredell	24,388	18,674	5,714	All counties	1,898,167	1,439,112	459,055
Jackson	45,111	1,219	43,892				
Johnston	10,344	7,329	3,015				
Jones	43,893	41,325	2,568				

Table 14. Round pulpwood production in Oklahoma, 1963

County ¹	All species	Pine	Hardwood
--- Standard cords ---			
Carter	20	...	20
Cherokee	2,884	...	2,884
Delaware	2,265	...	2,265
Mc Curtain	17,050	6,489	10,561
Mayes	1,418	...	1,418
Murray	85	...	85
Rogers	1,418	...	1,418
All counties	25,140	6,489	18,651

¹ Counties with no pulpwood production are omitted.

Table 15. Round pulpwood production in South Carolina, 1963

County	All species	Pine	Hardwood	County	All species	Pine	Hardwood
--- Standard cords ---				--- Standard cords ---			
Abbeville	45,633	39,044	6,589	Jasper	59,198	48,237	10,961
Aiken	63,355	46,455	16,900	Kershaw	113,220	75,776	37,444
Allendale	29,952	20,169	9,783	Lancaster	58,717	43,745	14,972
Anderson	29,810	25,484	4,326	Laurens	56,895	46,025	10,870
Bamberg	19,256	10,520	8,736	Lee	15,224	9,737	5,487
Barnwell	30,664	24,904	5,760	Lexington	20,194	16,679	3,515
Beaufort	21,968	9,714	12,254	McCormick	24,121	22,878	1,243
Berkeley	82,345	64,564	17,781	Marion	13,549	6,534	7,015
Calhoun	8,397	6,522	1,875	Marlboro	28,463	12,616	15,847
Charleston	70,543	48,558	21,985	Newberry	66,891	58,462	8,429
Cherokee	13,313	11,913	1,400	Oconee	20,505	19,767	738
Chester	77,342	65,212	12,130	Orangeburg	26,553	16,612	9,941
Chesterfield	62,238	37,559	24,679	Pickens	5,091	4,747	344
Clarendon	29,245	19,913	9,332	Richland	56,104	41,165	14,939
Colleton	87,948	65,881	22,067	Saluda	31,573	25,497	6,076
Darlington	18,419	9,808	8,611	Spartanburg	31,590	26,848	4,742
Dillon	12,375	7,220	5,155	Sumter	30,518	21,708	8,810
Dorchester	61,151	39,127	22,024	Union	60,065	54,266	5,799
Edgefield	59,346	45,292	14,054	Williamsburg	50,259	28,617	21,642
Fairfield	110,595	98,408	12,187	York	54,551	41,271	13,280
Florence	32,870	16,562	16,308	All counties	2,024,264	1,509,238	515,026
Georgetown	91,569	64,437	27,132				
Greenville	20,005	17,429	2,576				
Greenwood	37,353	31,995	5,358				
Hampton	47,034	34,122	12,912				
Horry	38,257	27,239	11,018				

Table 16. Round pulpwood production in Tennessee, 1963

County	All species	Pine	Hardwood	County	All species	Pine	Hardwood
--- Standard cords ---				--- Standard cords ---			
Anderson	6,259	3,565	2,694	Lauderdale	...	...	...
Bedford	...	...	...	Lawrence	...	...	...
Benton	2,300	746	1,554	Lewis	20	20	...
Bledsoe	6,078	4,075	2,003	Lincoln	...	...	...
Blount	15,886	9,932	5,954	Loudon	2,942	952	1,990
Bradley	10,705	7,367	3,338	McMinn	29,306	22,166	7,140
Campbell	5,972	4,044	1,928	McNairy	16,986	11,775	5,211
Cannon	...	...	...	Macon	...	...	...
Carroll	1,923	616	1,307	Madison	355	161	194
Carter	8,737	...	8,737	Marion	1,315	1,315	...
Cheatham	...	...	...	Marshall	...	...	...
Chester	5,506	3,838	1,668	Maury	...	...	...
Claiborne	1,178	1,117	61	Meigs	14,497	9,291	5,206
Clay	...	...	...	Monroe	28,605	14,735	13,870
Cocke	8,476	6,021	2,455	Montgomery	...	...	...
Coffee	...	...	...	Moore	...	...	...
Crockett	...	...	...	Morgan	26,551	6,156	20,395
Cumberland	33,869	8,006	25,863	Obion	703	...	703
Davidson	...	...	...	Overton	...	...	...
Decatur	2,304	1,862	442	Perry	443	8	435
De Kalb	...	...	...	Pickett	...	...	...
Dickson	...	...	...	Polk	26,462	17,847	8,615
Dyer	702	...	702	Putnam	705	157	548
Fayette	182	140	42	Rhea	14,828	5,680	9,148
Fentress	7,049	5,088	1,961	Roane	4,402	1,626	2,776
Franklin	...	...	...	Robertson	...	...	...
Gibson	17	17	...	Rutherford	...	...	...
Giles	...	...	...	Scott	8,846	4,498	4,348
Grainger	2,519	1,666	853	Sequatchie	2,233	1,831	402
Greene	3,147	22	3,125	Sevier	304	120	184
Grundy	1,977	1,977	...	Shelby	2,427	...	2,427
Hamblen	38	19	19	Smith	...	...	...
Hamilton	10,433	8,234	2,199	Stewart	...	...	...
Hancock	150	...	150	Sullivan	9,759	22	9,737
Hardeman	8,270	4,688	3,582	Sumner	...	...	...
Hardin	8,675	5,468	3,207	Tipton	2,074	...	2,074
Hardin	8,675	5,468	3,207	Trousdale	...	...	...
Hawkins	9,504	3,591	5,913	Unicoi	5,675	...	5,675
Haywood	...	...	...	Union	6,091	5,063	1,028
Henderson	9,382	7,792	1,590	Van Buren	...	...	...
Henry	...	...	...	Warren	...	...	...
Hickman	...	...	...	Washington	4,760	1,005	3,755
Houston	...	...	...	Wayne	375	350	25
Humphreys	...	...	...	Weakley	...	...	...
Jackson	...	...	...	White	1,003	138	865
Jefferson	304	127	177	Williamson	...	...	...
Johnson	5,195	...	5,195	Wilson	...	...	...
Knox	7,439	3,728	3,711	All counties	395,843	198,662	197,181
Lake	...	...	...	

Table 17. Round pulpwood production in Texas,
1963

County ¹	All species	Pine	Hardwood
--- Standard cords ---			
Anderson	5,603	4,138	1,465
Angelina	57,415	50,015	7,400
Bowie	15,139	13,713	1,426
Burleson	264	...	264
Camp	2,516	2,516	...
Cass	30,238	28,028	2,210
Chambers	3,809	1,365	2,444
Cherokee	31,736	29,867	1,869
Gregg	1,619	1,544	75
Grimes	10,485	7,919	2,566
Hardin	47,135	23,655	23,480
Harris	26,279	18,876	7,403
Harrison	27,173	24,421	2,752
Houston	31,699	25,785	5,914
Jasper	70,724	54,973	15,751
Jefferson	656	323	333
Lamar	4,102	...	4,102
Leon	2,604	109	2,495
Liberty	57,347	34,265	23,082
Marion	17,629	14,890	2,739
Montgomery	56,486	40,099	16,387
Morris	7,171	7,092	79
Nacogdoches	42,973	40,782	2,191
Newton	47,131	27,764	19,367
Orange	12,942	8,102	4,840
Panola	41,461	37,445	4,016
Polk	75,719	55,635	20,084
Robertson	212	...	212
Rusk	12,839	11,319	1,520
Sabine	46,723	41,006	5,717
San Augustine	39,377	27,982	11,395
San Jacinto	19,236	12,330	6,906
Shelby	50,537	42,090	8,447
Smith	2,759	1,832	927
Trinity	58,268	52,105	6,163
Tyler	49,883	35,156	14,727
Upshur	18,285	17,785	500
Walker	35,792	24,412	11,380
Waller	425	398	27
Wood	583	583	...
All counties	1,062,974	820,319	242,655

¹ Counties with no pulpwood production are omitted.

Table 18. Round pulpwood production in Virginia, 1963

County ¹	All species	Pine	Hardwood	County ¹	All species	Pine	Hardwood
--- Standard cords ---				--- Standard cords ---			
Accomack	8,888	8,885	3	King William	24,856	21,383	3,473
Albermarle	35,940	23,043	12,897	Lancaster	7,998	7,967	31
Alleghany	50,062	7,694	42,368	Lee	709	...	709
Amelia	19,057	17,210	1,847	Loudoun	2,399	2,378	21
Amherst	53,816	21,338	32,478	Louisa	19,926	18,387	1,539
Appomattox	48,562	20,574	27,988	Lunenburg	17,218	13,492	3,726
Arlington	115	115	...	Madison	3,314	3,294	20
Augusta	18,458	4,842	13,616	Mathews	6,223	5,975	248
Bath	40,343	3,917	36,426	Mecklenburg	21,880	20,778	1,102
Bedford	46,262	29,104	17,158	Middlesex	10,006	9,019	987
Bland	1,412	1,173	239	Montgomery	4,725	4,725	...
Botetourt	24,741	7,434	17,307	Nansemond	16,374	7,749	8,625
Brunswick	54,935	40,208	14,727	Nelson	38,440	16,411	22,029
Buchanan	...	...	...	New Kent	34,149	29,024	5,125
Buckingham	76,127	43,085	33,042	Norfolk	3,020	3,014	6
Campbell	46,666	33,771	12,895	Northampton	401	318	83
Caroline	16,123	15,840	283	Northumberland	6,080	6,080	...
Carroll	4,044	4,044	...	Nottoway	16,354	15,083	1,271
Charles City	17,790	12,096	5,694	Orange	9,767	3,974	793
Charlotte	30,261	28,319	1,942	Page	538	371	167
Chesterfield	34,730	29,098	5,632	Patrick	4,528	4,528	...
Clarke	2,737	2,737	...	Pittsylvania	39,203	36,127	3,076
Craig	16,130	3,717	12,413	Powhatan	31,696	26,675	5,021
Culpeper	3,623	3,623	...	Prince Edward	33,225	27,748	5,477
Cumberland	25,326	22,738	2,588	Prince George	33,022	26,604	6,418
Dickenson	...	...	...	Prince William	20,965	18,855	2,110
Dinwiddie	52,201	42,117	10,084	Princess Anne	...	...	...
Elizabeth City	8	8	...	Pulaski	2,255	2,255	...
Essex	24,415	22,122	2,293	Rappahannock	...	...	...
Fairfax	6,233	6,059	174	Richmond	20,740	19,634	1,106
Fauquier	6,035	5,999	36	Roanoke	3,298	2,622	676
Floyd	3,246	3,244	2	Rockbridge	44,207	7,546	36,661
Fluvanna	17,109	14,550	2,559	Rockingham	9,819	7,461	2,358
Franklin	22,135	21,384	751	Russell	738	...	738
Frederick	7,503	6,712	791	Scott	12,876	...	12,876
Giles	452	338	114	Shenandoah	12,784	9,322	3,462
Gloucester	23,228	19,492	3,736	Smyth	1,768	10	1,758
Goochland	17,222	16,830	392	Southampton	50,821	33,583	17,238
Grayson	...	...	...	Spotsylvania	25,102	23,527	1,575
Greene	3,109	3,011	98	Stafford	9,257	8,790	467
Greensville	47,011	41,960	5,051	Surry	22,307	17,478	4,829
Halifax	16,692	16,060	632	Sussex	60,115	40,977	19,138
Hanover	14,897	14,802	95	Tazewell	...	...	...
Henrico	14,198	12,118	2,080	Warren	2,821	2,516	305
Henry	16,057	16,055	2	Warwick	1,415	1,257	158
Highland	11,928	1,802	10,126	Washington	7,780	...	7,780
Isle of Wight	13,223	7,738	5,485	Westmoreland	9,638	9,638	...
James City	13,966	12,763	1,203	Wise	10,126	3	10,123
King and Queen	33,779	31,152	2,627	Wythe	4,104	2,496	1,608
King George	3,317	3,317	...	York	8,858	7,157	1,701
				All counties	1,771,957	1,235,469	536,488

¹ Includes independent cities.

Table 19. Mills using southern pulpwood in 1963, by process and capacity¹

Location	Map code ²	Company	Pulping capacity, 24 hours ³				
			All processes	Sulfate	Groundwood and other mechanical	Semi-chemical	Soda and sulfite
----- Tons -----							
ALABAMA							
Brewton	(1)	Container Corp. of America	300	300	...	...	...
Demopolis	(2)	Gulf States Paper Corp.	400	400	...	...	...
Tuscaloosa	(3)	Gulf States Paper Corp.	450	450	...	...	...
Mobile	(4)	International Paper Co.	1,315	1,015	300	...	...
Coosa Pines	(5)	Kimberly-Clark Corporation, Coosa River Newsprint Division	1,006	366	640	...	...
Naheola	(6)	Marathon Southern Corp.	420	420	...	...	...
Mobile	(7)	National Gypsum Co.	300	...	150	150	...
Mobile	(8)	The Ruberoid Co.	48	...	48	...	...
Mobile	(9)	Scott Paper Co.	900	900	...	...	...
		Total	5,139	3,851	1,138	150	...
ARKANSAS							
Pine Bluff	(10)	Dierks Paper Co.	150	150	...	...	...
Crossett	(11)	Georgia-Pacific Corporation Crossett Division—Paper	735	625	...	110	...
Camden	(12)	International Paper Co.	625	625	...	...	...
Pine Bluff	(13)	International Paper Co.	1,145	745	400	...	...
		Total	2,655	2,145	400	110	...
FLORIDA							
Foley	(14)	The Buckeye Cellulose Corp.	910	910	...	...	...
Fernandina Beach	(15)	Container Corp. of America	700	700	...	...	...
Palatka	(16)	Hudson Pulp and Paper Corp.	850	850	...	...	...
Panama City	(17)	International Paper Co.	1,620	1,620	...	...	...
Jacksonville	(18)	Owens-Illinois, Forest Products Div.	500	500	...	...	...
Fernandina Beach	(19)	Rayonier, Inc.	350	...	...	...	350
Port St. Joe	(20)	St. Joe Paper Co.	1,200	1,200	...	...	...
Jacksonville	(21)	St. Regis Paper Co. ⁴	1,370	1,370	...	...	...
Pensacola	(22)	St. Regis Paper Co.	750	750	...	...	...
		Total	8,250	7,900	...	...	350
GEORGIA							
Macon	(23)	Armstrong Cork Co.	400	...	400	...	...
Brunswick	(24)	Brunswick Pulp and Paper Co.	1,120	1,120	...	...	...
Savannah	(25)	Certain-teed Products Corp.	65	...	65	...	...
Augusta	(26)	Continental Can Co., Inc.	350	225	...	125	...
Port Wentworth	(27)	Continental Can Co., Inc.	600	600	...	...	...
Macon	(28)	Georgia Kraft Co., Macon Div.	700	700	...	...	...
Rome	(29)	Georgia Kraft Co., Rome Div.	1,300	1,300	...	...	...
Cedar Springs	(30)	Great Southern Land and Paper Co.	700	700	...	...	...
Valdosta	(31)	Owens-Illinois, Forest Products Div.	630	630	...	...	...
Jesup	(32)	Rayonier, Inc.	675	675	...	...	...
Savannah	(33)	The Ruberoid Co.	48	...	48	...	...
St. Marys	(34)	St. Marys Kraft Corp.	950	950	...	...	...
Savannah	(35)	Union Bag-Camp Paper Corp.	2,575	2,175	...	400	...
		Total	10,113	9,075	513	525	...
ILLINOIS							
Alton	(36)	Alton Box Board Co.	250	...	...	250	...
East St. Louis	(37)	Certain-teed Products Corp.	85	...	85	...	...
Wilmington	(38)	Lehon Co.	25	...	...	25	...
		Total	360	...	85	275	...
LOUISIANA							
Shreveport	(39)	Bird and Son, Inc.	60	...	...	60	...
Elizabeth	(40)	Calcasieu Paper Co., Inc.	240	240	...	...	...
Hodge	(41)	Continental Can Co., Inc.	640	500	...	140	...
Bogalusa	(42)	Crown Zellerbach Corp.	1,275	1,140	...	135	...
New Orleans	(43)	The Flintkote Co.	60	...	60	...	...
Bastrop	(44)	International Paper Co. (Bastrop Mill)	590	...	...	590	...
Bastrop	(45)	International Paper Co. (Louisiana Mill)	635	590	45	...	...
Springhill	(46)	International Paper Co.	1,550	1,550	...	...	...
West Monroe	(47)	Olin Mathieson Chemical Corp.	650	650	...	...	...
St. Francisville	(48)	St. Francisville Paper Co.	235	...	235	...	...
		Total	5,935	4,670	340	925	...
MARYLAND							
Luke	(49)	West Virginia Pulp and Paper Co.	600	600	...	...	...
		Total	600	600	...	...	...

Table 19. Mills using southern pulpwood in 1963, by process and capacity¹ (Continued)

Location	Map code ²	Company	Pulping capacity, 24 hours ³				
			All processes	Sulfate	Groundwood and other mechanical	Semi-chemical	Soda and sulfite
			----- Tons -----				
MISSISSIPPI							
Meridian	(50)	The Flintkote Co.	133	...	133	...	...
Moss Point	(51)	International Paper Co.	660	660	...	...	...
Natchez	(52)	International Paper Co.	925	925	...	...	...
Natchez	(53)	Johns-Manville Products Corp.	350	...	230	120	...
Meridian	(54)	Kroehler Mfg. Co. of Miss., Inc. ⁵	80	...	80	...	...
Laurel	(55)	Masonite Corp.	1,200	...	1,200	...	...
Greenville	(56)	United States Gypsum Co.	200	...	200	...	...
Total			3,548	1,585	1,843	120	...
NORTH CAROLINA							
Roanoke Rapids	(57)	Albermarle Paper Manufacturing Co.	800	800	...	...	...
Canton	(58)	Champion Papers, Inc.	980	930	...	50	...
Sylva	(59)	The Mead Corp.	250	...	...	250	...
Acme	(60)	Riegel Paper Corp.	875	875	...	...	...
Plymouth	(61)	Weyerhaeuser Co., N. C. Div.	1,500	1,150	...	350	...
Total			4,405	3,755	...	650	...
OHIO							
Cincinnati	(62)	The Philip Carey Mfg. Co.	200	...	200	...	...
Chillicothe	(63)	The Mead Corp.	500	...	...	...	500
Total			700	...	200	...	500
OKLAHOMA							
Pryor	(64)	Bestwall Gypsum Co.	90	...	...	90	...
Craig	(65)	Dierks Forest, Inc.	50	...	50	...	...
Total			140	...	50	90	...
PENNSYLVANIA							
Roaring Spring	(66)	D. M. Bare Paper Co.	120	120	...	...	...
York	(67)	Certain-teed Products Corp.	75	...	...	75	...
Spring Grove	(68)	P. H. Glatfelter Co.	215	215	...	...	...
Total			410	335	...	75	...
SOUTH CAROLINA							
Catawba	(69)	Bowaters Board Co.	200	...	200	...	...
Catawba	(70)	Bowaters Carolina Corp.	550	400	150	...	...
Georgetown	(71)	International Paper Co.	1,990	1,455	...	535	...
Hartsville	(72)	Sonoco Products Co.	375	...	...	375	...
Charleston	(73)	West Virginia Pulp and Paper Co.	1,550	1,290	...	260	...
Total			4,665	3,145	350	1,170	...
TENNESSEE							
Calhoun	(74)	Bowaters Southern Paper Corp.	1,425	450	800	175	...
Harriman	(75)	The Mead Corp.	170	...	...	170	...
Kingsport	(76)	The Mead Co.	225	...	...	...	225
Knoxville	(77)	Southern Extract Co.	150	...	...	150	...
Counce	(78)	Tennessee River Pulp and Paper Co.	625	625	...	...	...
Total			2,595	1,075	800	495	225
TEXAS							
Pasadena	(79)	Champion Papers, Inc.	772	700	72	...	...
Evadale	(80)	East Texas Pulp and Paper Co.	425	425	...	...	...
Dallas	(81)	The Ruberoid Co.	40	...	40	...	...
Diboll	(82)	Temple Industries, Inc.	130	...	...	130	...
Lufkin	(83)	Southland Paper Mills, Inc.	1,250	400	850	...	...
Total			2,617	1,525	962	130	...
VIRGINIA							
West Point	(84)	The Chesapeake Corp. of Virginia	650	650	...	...	...
Hopewell	(85)	Continental Can Co., Inc.	950	800	...	150	...
Lynchburg	(86)	The Mead Corp.	175	...	...	175	...
Big Island	(87)	Owens-Illinois, Forest Products Div.	285	...	...	285	...
Jarratt	(88)	Southern Johns-Manville Products Corp.	200	...	200	...	...
Franklin	(89)	Union Bag-Camp Paper Corp.	600	600	...	...	...
Covington	(90)	West Virginia Pulp and Paper Co.	1,300	1,050	...	250	...
Total			4,160	3,100	200	860	...
All states			56,292	42,761	6,881	5,575	1,075

¹ In 1963, three mills were under construction in the South. One, South Carolina Industries, Inc., at Florence, South Carolina (No. 91 in Fig. 10), with a designed daily capacity of 460 tons, began operations in January 1964. A second, Allied Paper Corporation at Jackson, Alabama (No. 92 in Fig. 10), with an initial daily capacity of 300 tons, is scheduled for completion in late 1964. The third, Crown Zellerbach Corporation at St. Francisville, Louisiana (No. 93 in Fig. 10), will have a capacity of 500 tons. All three mills will use the sulfate process.

² Corresponds to numbers at mill locations in figures 10 and 11.

³ Southern Pulp and Paper Manufacturer, vol. 26, No. 10 (Oct. 1, 1963); and other sources.

⁴ Previously reported capacity was in error.

⁵ Operates exclusively on secondary wood residues.

