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Southern Pulpwood Production, 1990

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Southern Forest Experiment Station

New Orleans, Louisiana

and

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of the

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in cooperation with the

American Pulpwood Association

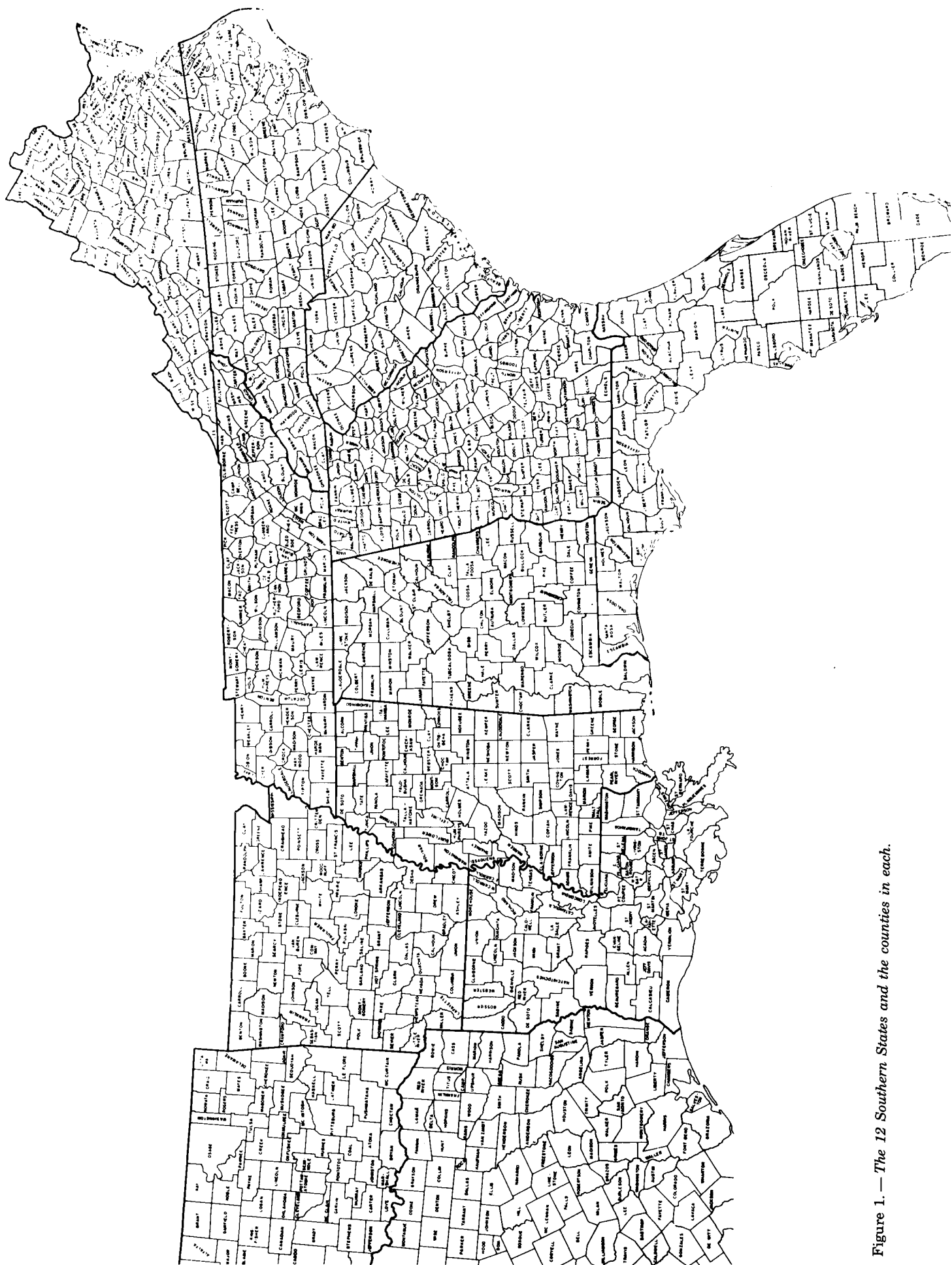


Figure 1. — The 12 Southern States and the counties in each.

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INTRODUCTION

The findings of the annual 100-percent canvass of pulpmills that procure roundwood or wood residues from 12 Southern States (fig. 1) are presented in this publication. Canvass data are compiled and analyzed on an alternating basis by personnel from the Southern and Southeastern Forest Experiment Stations. Of the 103 mills canvassed, 88 responded. Past canvass data and other sources of information were used for mills that did not respond. Data from mills reporting nonstandard units were converted to cords using regional conversions. The format and order of tables in this periodic report are standard regardless of table references in the text.

PULPWOOD

Pulpwood production increased to over 65 million cords in 1990 (table 1). Alabama ranked first in pulpwood production with over 9.9 million cords. Second-ranked Georgia and third-ranked Mississippi experienced 4- and 7-percent production increases, respectively. Together, these three States supplied nearly 42 percent of the total pulpwood production.

Southern pulpwood production increased almost 20 percent after 1981 to meet the demand created by greater pulping capacity (fig. 2). Softwood continued to be the primary species group used for pulpwood, but the proportion of hardwood to total production increased from 26 percent in 1981 to 29 percent in 1990 (fig. 3). Softwood production increased about 15 percent and hardwood production about 34 percent after 1981.

The **Midsouth** produced about 56 percent of the South's total pulpwood (table 5). Although softwood production was nearly equal in both regions, the **Mid-south** accounted for nearly 64 percent of the hardwood.

Roundwood

In 1990, Alabama led roundwood production with 7.3 million cords (table 2). Second-ranked Georgia produced 6.5 million cords, and Mississippi ranked third with 5.6 million cords. The South's roundwood production increased about 9 percent. Softwood roundwood production increased about 14 percent from 1989 to 1990; however, hardwood production decreased almost 1 percent. Softwoods comprised about 69 percent of roundwood production, with hardwoods contributing about 31 percent.

Georgia, with over 5.2 million cords, was the leader in softwood roundwood production (table 2). Alabama and Florida followed with 4.3 and 3.6 million cords, respectively. With 3.0 million cords, Alabama was the leader in hardwood roundwood production. **Second**-ranked Mississippi produced 2.4 million cords of hardwood, and third-ranked North Carolina produced 1.6 million cords.

In 1990, 9 counties or parishes produced over 300,000 cords of roundwood, 20 counties or parishes produced 200,000 to 300,000 cords, and 118 counties or parishes produced 100,000 to 200,000 cords (tables 6-17).

Roundwood continued as the primary material used for pulp manufacture and accounted for 70 percent of total production. Roundwood production increased about 25 percent from 1981 to 1990. Softwood production increased about 19 percent and hardwood production increased about 47 percent during the same period. About 31 percent of the roundwood was hardwood in 1990, compared to 26 percent in 1981.

Wood Residues

The amount of mill residues used for pulp manufacture increased slightly from 1989 to 1990 (table 3). Georgia produced 2.8 million cords of wood residues. Alabama, with about 2.6 million cords, was the

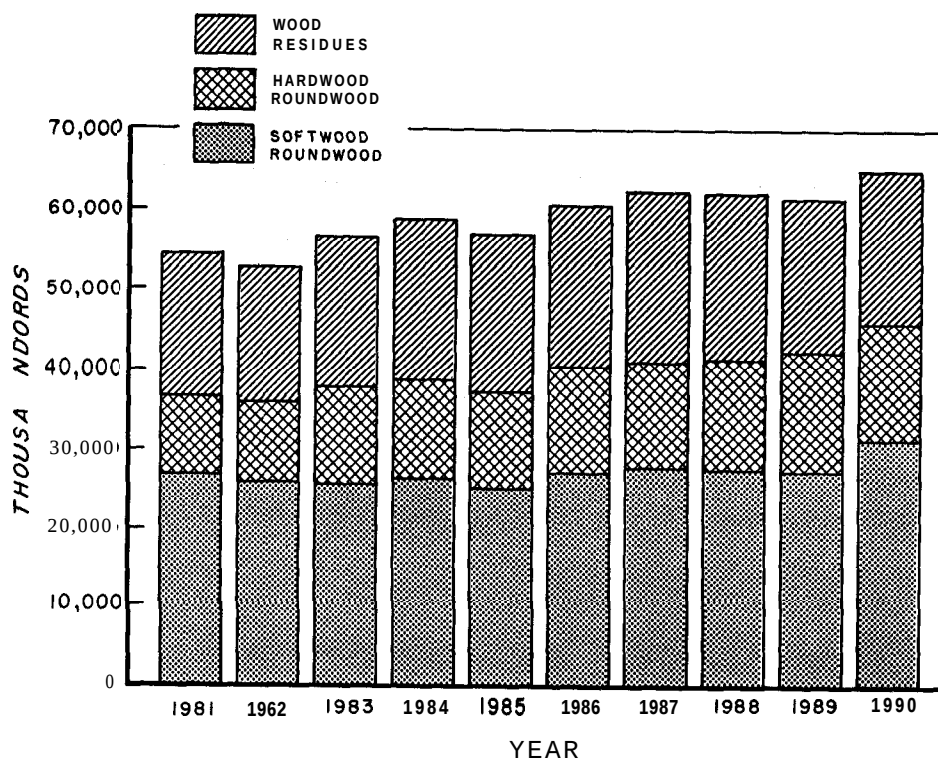


Figure 2. -Pulpwood production trends in the South, 1981-90.

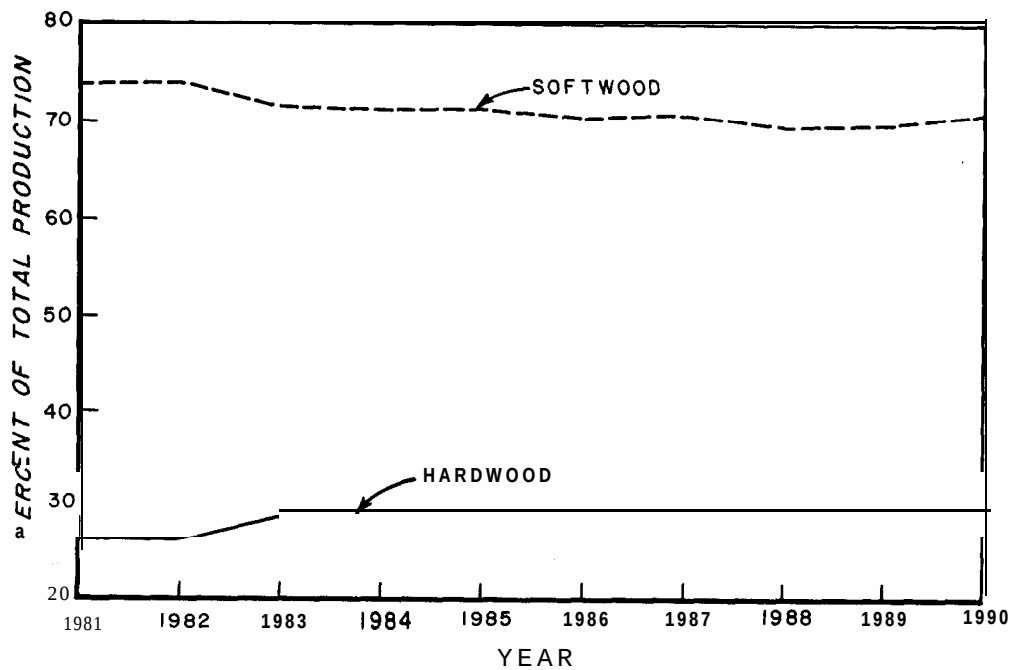


Figure 3. -Proportion of softwood and hardwood to total pulpwood production in the South, 1981-90.

second-leading producer. Mississippi ranked third with about 2.4 million cords. Georgia led softwood residue production with 2.6 million cords, and Arkansas led hardwood residue production with almost 0.9 million cords. Residue chips accounted for almost all wood residues produced in the South (table 4), and about 75 percent of the residue chips were softwood.

Production of wood residues increased almost 10 percent after 1981 but stabilized at about 20 million cords after 1984 (fig. 2). Production of hardwood residues increased about 7 percent and production of softwood residues increased about 11 percent after 1981.

MILLS

The number of wood-using pulpmills in the South decreased from 114 to 103 between 1981 and 1990 (fig. 4). Three mills closed in 1990. Alabama, with 15, had the most mills operating within a State. Five mills outside the 12-State region used pulpwood from the South in 1990 (table 19). One pulpmill was under construction in 1990 (table 20, fig. 4).

Pulping capacity increased about 2.4 percent from 1989 to 1990 to a record 129,290 tons per day (table 18). Alabama, followed closely by Georgia, led in pulping capacity. Sulfate continued as the dominant pulping process with almost 81 percent of the total capacity.

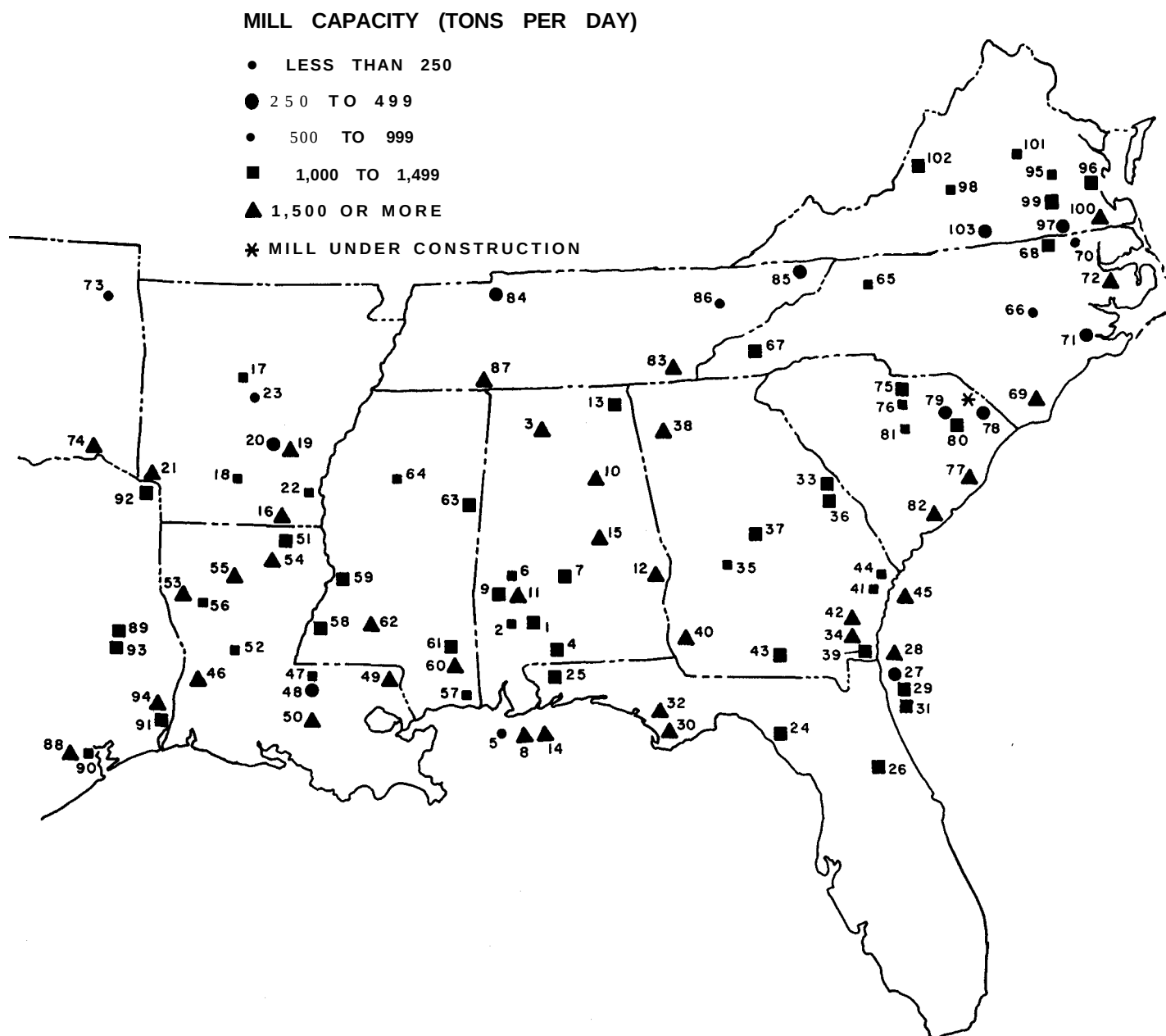


Figure 4. -Location and capacity of pulpmills operating in and drawing wood from the 12 Southern States in 1990. (Numerals are coded to table 18.)

Table *L-Pulpwood production in the South during 1990, and change since 1989*

State	Pulpwood*	Change
	<i>Thousand cords</i>	<i>Percent</i>
Alabama	9,913.2	17
Arkansas	4,985.9	3
Florida	5,016.8	-2
Georgia	9,093.6	4
Louisiana	6,414.2	6
Mississippi	8,020.2	7
North Carolina	5,657.2	10
Oklahoma	1,156.9	104
South Carolina	5,220.9	0
Tennessee	1,430.0	17
Texas	4,296.3	-2
Virginia	3,647.2	7
All States	65,032.4	7

*Column data may not add to totals due to rounding.

Table *2-Roundwood production in the South, by State and species group, 1990 and 1989**

State	Change from 1989	1990			1989		
		All species	Softwood	Hardwood	All species	Softwood	Hardwood
	<i>Percent</i>	<i>Thousand cords</i>					
Alabama	12	7,310.3	4,269.9	3,040.4	6,559.9	3,413.0	3,142.9
Arkansas	14	2,634.9	1,675.8	959.1	2,306.5	1,340.9	965.6
Florida	6	4,001.1	3,602.0	399.1	3,788.9	3,464.6	324.2
Georgia	5	6,541.1	5,252.4	1,288.7	6,225.7	4,857.8	1,367.9
Louisiana	8	4,850.1	3,554.4	1,295.7	4,496.2	3,231.6	1,264.6
Mississippi	7	5,631.6	3,249.3	2,382.3	5,273.4	2,805.8	2,467.6
North Carolina	17	4,165.3	2,525.6	1,639.7	3,565.4	2,108.9	1,465.5
Oklahoma	281	839.0	626.7	212.3	220.0	112.5	107.5
South Carolina	1	3,763.6	2,763.4	1,000.2	3,714.1	2,601.6	1,112.4
Tennessee	10	1,100.7	716.4	384.3	997.3	600.7	396.8
Texas	-3	2,369.4	1,905.9	463.5	2,455.0	1,777.1	677.9
Virginia	9	2,415.0	1,265.2	1,149.8	2,219.4	1,164.5	1,054.8
All States	9	45,622.1	31,407.1	14,215.0	41,818.2	27,479.2	14,339.0

*Row and column data may not add to totals due to rounding.

Table 3.—Southern output Of wood residues for pulp manufacture, by State and species group, 1990 and 1989*

State	Change from 1989	1990			1989		
		All species	Softwood	Hardwood	All species	Softwood	Hardwood
	<i>Percent</i>	<i>Thousand cords</i>					
Alabama	38	2,602.9	1,936.8	666.1	1,886.2	1,550.4	335.7
Arkansas	-8	2,351.0	1,483.8	867.2	2,555.3	1,713.4	842.0
Florida	-22	1,015.6	884.3	131.4	1,306.1	1,097.2	208.8
Georgia	1	2,752.5	2,602.7	149.8	2,725.0	2,576.8	148.2
Louisiana	-1	1,564.0	1,381.7	182.4	1,580.1	1,394.7	185.4
Mississippi	7	2,388.7	1,767.0	621.6	2,225.3	1,664.1	561.2
North Carolina	-7	1,471.8	964.8	507.1	1,582.0	1,044.2	537.8
Oklahoma	-8	317.9	193.7	124.2	346.2	340.5	5.7
South Carolina	-5	1,457.3	1,282.1	175.2	1,530.8	1,334.2	196.4
Tennessee	45	329.4	53.1	276.2	226.7	32.9	193.7
Texas	0	1,926.9	1,306.6	620.3	1,934.6	1,514.0	420.6
Virginia	3	1,232.2	761.3	470.9	1,198.8	741.1	455.7
All States	2	19,410.3	14,617.9	4,792.3	19,095.2	15,003.9	4,091.3

*Row and column data may not add to totals due to rounding.

Table 4.—Southern output of wood residues for pulp manufacture, by State and type of residue, 1990*

State	All types	Chips			Other residues†		
		All species	Softwood	Hardwood	All species	Softwood	Hardwood
		<i>Thousand cords</i>					
Alabama	2,602.9	2,602.9	1,936.8	666.1	0	0	0
Arkansas	2,351.0	2,330.6	1,467.5	863.2	20.4	16.3	4.0
Florida	1,015.6	1,015.6	884.3	131.4	0	0	0
Georgia	2,752.5	2,752.5	2,602.7	149.8	0	0	0
Louisiana	1,564.0	1,564.0	1,381.7	182.4	0	0	0
Mississippi	2,388.7	2,388.7	1,767.0	621.6	0	0	0
North Carolina	1,471.8	1,465.4	964.1	501.3	6.4	0.7	5.8
Oklahoma	317.9	291.1	171.1	120.0	26.8	22.6	4.2
South Carolina	1,457.3	1,457.3	1,282.1	175.0	0	0	0
Tennessee	329.4	329.4	53.1	276.2	0	0	0
Texas	1,926.9	1,926.9	1,306.5	620.3	0.1	0.1	0
Virginia	1,232.2	1,210.7	761.3	449.4	21.5	0	21.5
All States	19,410.3	19,335.0	14,578.2	4,756.8	75.2	39.7	35.6

*Row and column data may not add to totals due to rounding.

†Veneer cores, pole and piling trim, cull material, sawdust, and secondary residues.

Table 5.—*Pulpwood production in the Southeast and Midsouth, 1990*

Region and source of wood	All species	Softwood	Hardwood
<i>.....Standard cords.....</i>			
Southeast*			
Roundwood	20,886,164	15,408,652	5,477,512
Residues	7,929,486	6,495,172	1,434,314
Total	28,815,650	21,903,824	6,911,826
Midsouth [†]			
Roundwood	24,735,943	15,998,451	8,737,492
Residues	11,480,809	8,122,741	3,358,068
Total	36,216,752	24,121,192	12,095,560
Entire South			
Roundwood	45,622,107	31,407,103	14,215,004
Residues	19,410,295	14,617,913	4,792,382
Total	65,032,402	46,025,016	19,007,386

*States of Florida, Georgia, North Carolina, South Carolina, and Virginia.

[†]States of Alabama, Arkansas, Louisiana, Mississippi, Oklahoma, Tennessee, and Texas.

Table 6.—*Round pulpwood production in Alabama, 1990*

County*	All species	Softwood	Hardwood
<i>.....Standard cords.....</i>			
Autauga	78,880	49,167	29,713
Baldwin	294,453	196,314	98,139
Barbour	114,453	49,398	65,055
Bibb	111,085	71,389	39,696
Blount	76,825	41,232	35,593
Bullock	67,021	39,675	27,346
Butler	199,127	135,675	63,452
Calhoun	75,111	68,288	6,823
Chambers	60,787	38,453	22,334
Cherokee	69,738	53,306	16,432
Chilton	64,609	32,571	32,038
Choctaw	235,264	126,668	108,596
Clarke	315,158	165,428	149,730
Clay	111,453	75,789	35,664
Cleburne	104,129	87,367	16,762
Coffee	36,297	14,644	21,653
Colbert	63,759	31,531	32,228
Conecuh	232,939	136,907	96,032
Coosa	61,531	50,492	11,039
Covington	154,872	82,870	72,002
Crenshaw	90,306	42,803	47,503
Cullman	69,208	41,573	27,635
Dale	48,127	15,447	32,680
Dallas	107,699	62,667	45,032
De Kalb	61,349	35,901	25,448
Elmore	64,768	37,389	27,379
Escambia	220,102	153,035	67,067
Etowah	52,619	37,972	14,647

Table 6.-Round
continued

1990—Con-

County*	All species	Softwood	Hardwood
.....Standard cords.....			
Fayette	130,864	78,313	52,551
Franklin	122,028	60,706	61,322
Geneva	41,954	14,152	27,802
Greene	91,865	43,147	48,718
Hale	47,929	12,422	35,507
Henry	43,510	20,434	23,076
Houston	25,313	20,754	4,559
Jackson	40,756	17,642	23,114
Jefferson	110,713	60,663	50,050
Lamar	111,415	34,988	76,427
Lauderdale	28,387	14,846	13,541
Lawrence	42,992	16,675	26,317
Lee	41,997	31,572	10,425
Limestone	9,079	5,662	3,417
Lowndes	108,142	50,642	57,500
Macon	45,493	23,461	22,032
Madison	8,641	2,106	6,535
Marengo	205,937	112,243	93,694
Marion	155,830	67,243	88,587
Marshall	32,913	10,788	22,125
Mobile	129,847	90,587	39,260
Monroe	285,598	161,841	123,757
Montgomery	49,460	34,836	14,624
Morgan	29,231	16,092	13,139
Perry	109,267	42,757	66,510
Pickens	165,932	99,090	66,842
Pike	91,110	48,942	42,168
Randolph	107,002	86,788	20,214
Russell	64,377	44,116	20,261
St. Clair	78,423	59,539	18,884
Shelby	92,184	67,627	24,557
Sumter	113,133	70,224	42,909
Talladega	115,839	94,535	21,304
Tallapoosa	122,003	82,649	39,354
Tuscaloosa	289,738	127,049	162,689
Walker	162,983	88,905	74,078
Washington	208,516	132,177	76,339
Wilcox	205,413	115,627	89,786
Winston	202,825	134,099	68,726
All counties	7,310,308	4,269,890	3,040,418

*Counties with no pulpwood production are omitted.

Table 7.-Round pulpwood production in Arkansas, 1990

County*	All species	Softwood	Hardwood
	Standard cords.....		
Arkansas	2,020	15	2,005
Ashley	118,170	46,695	71,475
Baxter	946	288	658
Bradley	165,394	54,355	111,039
Calhoun	109,434	84,128	25,306
Chicot	9,803	0	9,803
Clark	62,408	32,469	29,939
Cleburne	18,531	10,706	7,825
Cleveland	60,983	38,043	22,940
Columbia	177,433	128,764	48,669
Conway	8,485	5,585	2,900
Craighead	7	7	0
Crittenden	7	0	7
Dallas	119,027	78,950	40,077
Desha	499	0	499
Drew	145,845	66,019	79,826
Faulkner	4,783	1,046	3,737
Franklin	286	286	0
Fulton	2,021	752	1,269
Garland	7,460	5,898	1,562
Grant	81,402	75,155	6,247
Hempstead	56,280	35,006	21,274
Hot Spring	54,008	41,721	12,287
Howard	514,140	461,945	52,195
Independence	941	168	773
Jackson	799	0	799
Jefferson	33,645	19,604	14,041
Johnson	4,793	4,502	291
Lafayette	81,369	46,759	34,610
Lee	70	11	59
Lincoln	25,460	16,853	8,607
Little River	55,065	26,646	28,419
Logan	5,489	5,132	357
Lonoke	4,010	179	3,831
Miller	99,791	60,605	39,186
Monroe	1,117	158	959
Montgomery	15,891	7,933	7,958
Nevada	63,901	35,743	28,158
Newton	21,343	0	21,343
Ouachita	77,317	52,780	24,537
Perry	15,702	6,429	9,273
Pike	19,057	10,823	8,234
Polk	17,471	7,791	9,680
Pope	18,222	14,724	3,498
Prairie	1,606	749	857
Pulaski	15,606	7,449	8,157

Table 7.-Round *pulpwood production in Arkansas, 1990—Continued*

County*	All species	Softwood	Hardwood
<i>.....Standard cords.....</i>			
Saline	31,373	26,879	4,494
Scott	10,809	5,507	5,302
Searcy	1,607	844	763
Sevier	53,864	17,217	36,647
Sharp	3,363	0	3,363
Stone	6,569	1,556	5,013
Union	185,111	107,408	77,703
Van Buren	24,802	12,201	12,601
Washington	1,194	0	1,194
White	3,340	1,516	1,824
Yell	14,830	9,841	4,989
All counties	2,634,899	1,675,840	959,059

*Counties with no pulpwood production are omitted.

Table S.-Round *pulpwood production in Florida, 1990*

County*	All species	Softwood	Hardwood
<i>.....Standard cords.....</i>			
Alachua	100,004	93,524	6,480
Baker	137,062	136,355	707
Bay	113,024	111,668	1,356
Bradford	118,993	113,969	5,024
Brevard	4,298	4,298	0
Broward	196	0	196
Calhoun	124,904	111,259	13,645
Charlotte	5,892	5,892	0
Citrus	9,124	9,124	0
Clay	102,981	99,116	3,865
Columbia	143,149	140,177	2,972
De Soto	37,425	37,425	0
Dixie	116,613	89,506	27,107
Duval	93,079	88,612	4,467
Escambia	63,067	55,695	7,372
Flagler	81,949	78,670	3,279
Franklin	25,304	25,286	18
Gadsden	74,861	62,621	12,240
Gilchrist	79,932	79,853	79
Glades	2,945	2,945	0
Gulf	60,601	59,978	623
Hamilton	64,404	63,653	751
Hardee	12,776	12,776	0
Hendry	56,636	56,636	0
Highlands	10	5	5
Holmes	53,287	44,089	9,198

Table 8.-Round pulpwood production in Florida, 1990—Continued

County*	All species	Softwood	Hardwood
-----Standard cords-----			
Indian River	17	0	17
Jackson	107,027	81,778	25,249
Jefferson	86,089	69,893	16,196
Lafayette	83,609	82,890	719
Lake	7,812	7,788	24
Lee	3,723	3,679	44
Leon	62,666	61,518	1,148
Levy	144,639	118,741	25,898
Liberty	74,040	61,514	12,526
Madison	90,335	75,857	14,478
Marion	139,336	136,806	2,530
Nassau	195,709	175,489	20,220
Okaloosa	33,233	29,385	3,848
Orange	33,065	7,764	25,301
Pasco	21,586	21,440	146
Polk	298	0	298
Putnam	47,759	45,229	2,530
St. Johns	85,286	77,932	7,354
St. Lucie	2,945	2,945	0
Santa Rosa	156,900	140,667	16,233
Seminole	26,750	7,774	18,976
Sumter	10,293	7,763	2,530
Suwannee	69,111	65,162	3,949
Taylor	444,821	376,153	68,668
Union	70,290	68,787	1,503
Volusia	124,662	122,095	2,567
Wakulla	38,736	34,601	4,135
Walton	73,915	70,033	3,882
Washington	83,961	65,225	18,736
All counties	4,001,129	3,602,040	399,089

*Counties with no pulpwood production are omitted.

Table 9.-Round pulpwood production in Georgia, 1990

County*	All species	Softwood	Hardwood
-----Standard cords-----			
Appling	126,472	110,044	16,428
Atkinson	23,475	23,045	430
Bacon	59,975	51,875	8,100
Baker	11,399	10,044	1,355
Baldwin	52,051	43,825	8,226
Banks	14,824	14,824	0
Barrow	17,930	17,189	741
Bartow	41,414	41,414	0
Ben Hill	91,856	66,702	25,154
Berrien	32,178	31,441	737
Bibb	15,797	12,026	3,771
Bleckley	11,986	6,532	5,454
Brantley	101,135	83,512	17,623
Brooks	23,648	16,652	6,996
Bryan	31,744	25,207	6,537
Bulloch	42,709	30,316	12,393
Burke	100,086	42,279	57,807
Butts	17,236	16,040	1,196
Calhoun	27,230	11,080	16,150
Camden	132,875	101,965	30,910
Candler	35,510	29,599	5,911
Carroll	46,778	42,882	3,896
Catoosa	13,938	7,607	6,331
Charlton	161,457	150,434	11,023
Chatham	26,868	25,798	1,070
Chattahoochee	28,030	20,764	7,266
Chattooga	48,619	45,231	3,388
Cherokee	25,922	25,002	920
Clarke	23,647	19,586	4,061
Clay	14,369	9,006	5,363
Clayton	976	976	0
Clinch	205,137	195,723	9,414
Cobb	4,557	4,557	0
Coffee	74,573	60,912	13,661
Colquitt	36,059	28,031	8,028
Columbia	24,731	17,756	6,975
Cook	44,966	44,898	68
Coweta	57,948	55,580	2,368
Crawford	77,523	61,844	15,679
crisp	28,203	17,782	10,421
Dade	8,023	5,880	2,143
Dawson	29,722	29,722	0
Decatur	38,533	28,089	10,444
De Kalb	3,395	3,395	0
Dodge	108,588	76,401	32,187
Dooly	16,651	16,651	0
Dougherty	58,219	52,967	5,252
Douglas	4,817	4,557	260
Early	37,239	30,617	6,622
Echols	153,229	151,128	2,101
Effmgham	41,668	35,136	6,532
Elbert	29,712	23,459	6,253
Emanuel	62,658	47,130	15,528
Evans	37,058	24,978	12,080

Table 9.-Round pulpwood production in Georgia, 1990—Con-
tinued

County*	All species	Softwood	Hardwood
.....Standard cords.....			
Fannin	25,459	22,393	3,066
Fayette	8,682	8,648	34
Floyd	99,783	79,201	20,582
Forsyth	4,557	4,557	0
Franklin	5,238	3,341	1,897
F u l t o n	1,630	1,630	0
Gilmer	17,227	17,227	0
Glascok	12,549	5,351	7,198
Glynn	110,133	88,515	21,618
Gordon	61,219	58,459	2,760
Grady	35,288	23,949	11,339
Greene	42,919	25,575	17,344
Gwinnett	26,625	25,884	741
Habersham	6,945	3,672	3,273
Hall	14,812	14,812	0
Hancock	60,971	36,879	24,092
Haralson	23,591	19,911	3,680
Harris	35,151	25,277	9,874
Hart	5,238	3,341	1,897
H e a r d	35,375	33,712	1,663
Henry	89,597	85,986	3,611
Houston	78,796	76,456	2,340
Irwin	23,166	22,163	1,003
Jackson	30,084	29,623	461
Jasper	28,177	28,177	0
Jeff Davis	101,646	85,786	15,860
Jefferson	45,821	28,181	17,640
Jenkins	37,548	24,769	12,779
Johnson	43,575	35,255	8,320
Jones	51,809	47,679	4,130
Lamar	74,820	74,820	0
Lanier	13,369	11,520	1,849
Laurens	79,772	57,444	22,328
Lee	17,174	12,836	4,338
Liberty	69,958	51,415	18,543
Lincoln	21,152	12,604	8,548
Long	85,546	63,299	22,247
Lowndes	107,025	101,164	5,861
Lumpkin	911	911	0
McDuffie	22,663	14,527	8,136
McIntosh	62,643	50,078	12,565
Macon	18,419	18,383	36
Madison	1,368	911	457
Marion	34,540	27,269	7,271
Meriwether	92,930	80,053	12,877
Miller	5,571	4,354	1,217
Mitchell	58,411	43,521	14,890
Monroe	33,853	31,269	2,584
Montgomery	21,263	13,813	7,450
Morgan	8,014	6,244	1,770
Murray	22,758	21,838	920
Muscogee	21,196	14,504	6,692
Newton	11,171	11,043	128

Table 9.—*Round pulpwood production in Georgia, 1990—Continued*

County*	All species	Softwood	Hardwood
<i>-----Standard cords-----</i>			
Oconee	9,272	5,530	3,742
Oglethorpe	41,145	19,931	21,214
Paulding	30,658	29,738	920
Peach	8,866	8,866	0
Pickens	12,978	12,978	0
Pierce	48,694	34,768	13,926
Pike	10,443	10,443	0
Polk	40,277	37,517	2,760
Pulaski	17,803	15,229	2,574
Putnam	37,190	36,896	294
Quitman	26,262	22,050	4,212
Rabun	4,423	2,449	1,974
Randolph	66,926	39,665	27,261
Richmond	18,139	6,293	11,846
Rockdale	1,320	1,320	0
Schley	40,211	28,481	11,730
Screven	57,629	27,679	29,950
Seminole	4,975	4,304	671
Spalding	10,163	10,163	0
Stephens	6,218	4,261	1,957
Stewart	53,332	41,489	11,843
Sumter	46,854	27,169	19,685
Talbot	66,938	57,623	9,315
Taliaferro	28,410	9,938	18,472
Tattnall	48,720	38,755	9,965
Taylor	24,397	21,914	2,483
Telfair	43,337	34,144	9,193
Terrell	24,828	20,846	3,982
Thomas	60,238	48,235	12,003
Tift	18,605	16,853	1,752
Toombs	18,750	13,241	5,509
Towns	2,186	1,669	517
Treutlen	22,359	19,302	3,057
Troup	67,690	51,389	16,301
Turner	11,714	11,624	90
Twiggs	59,136	51,581	7,555
Union	6,196	4,032	2,164
Upson	59,668	58,668	1,000
Walker	18,800	13,801	4,999
Walton	3,117	492	2,625
Ware	127,421	118,913	8,508
Warren	47,281	25,358	21,923
Washington	43,484	7,425	36,059
Wayne	108,910	89,475	19,435
Webster	60,821	44,679	16,142
Wheeler	29,980	17,173	12,807
Whitfield	46,128	45,414	714
Wilcox	65,880	56,981	8,899
Wilkes	114,732	64,712	50,020
Wilkinson	52,924	12,131	40,793
Worth	31,161	28,509	2,652
All counties	6,541,070	5,252,415	1,288,655

*Counties with no pulpwood production are omitted.

Table 10.-Roundpulpwood production in Louisiana, 1990

Parish*	All species	Softwood	Hardwood
.....Standard cords.....			
Acadia	11,201	10,714	487
Allen	103,280	93,501	9,779
Ascension	5,514	1,239	4,275
Avoyelles	32,758	3,394	29,364
Beauregard	323,257	322,273	984
Bienville	420,280	329,769	90,511
Bossier	150,437	88,100	62,337
Caddo	117,335	71,754	45,581
Calcasieu	49,300	48,956	344
Caldwell	83,163	29,088	54,075
Catahoula	36,675	22,479	14,196
Claiborne	160,211	133,623	26,588
Concordia	22,818	29	22,789
De Soto	242,510	159,888	82,622
East Baton Rouge	9,458	3,873	5,585
East Carroll	5,575	0	5,575
East Feliciana	29,360	18,696	10,664
Evangeline	28,513	24,866	3,647
Franklin	10,760	1,360	9,400
Grant	82,706	63,221	19,485
Iberia	26	0	26
Iberville	10,812	35	10,777
Jackson	168,179	126,278	41,901
Jefferson	19	7	12
Jefferson Davis	9,345	9,060	285
La Salle	172,558	137,027	35,531
Lincoln	150,135	111,992	38,143
Livingston	54,348	40,275	14,073
Madison	23,439	2	23,437
Morehouse	55,064	19,530	35,534
Natchitoches	323,937	244,876	79,061
Ouachita	129,024	62,355	66,669
Pointe Coupee	2,875	0	2,875
Rapides	187,307	170,142	17,165
Red River	108,873	71,578	37,295
Richland	5,264	1,481	3,783

Table 10.-Round pulpwood production in Louisiana, 1990—Continued

Parish*	All species	Softwood	Hardwood
-----Standard cords-----			
Sabine	256,869	201,622	55,247
St. Charles	211	0	211
St. Helena	61,897	36,878	25,019
St. James	267	0	267
St. Landry	1,046	251	795
St. Martin	2,699	0	2,699
St. Tammany	79,985	79,505	480
Tangipahoa	67,000	42,621	24,379
Tensas	20,008	1,190	18,818
Union	317,274	194,715	122,559
Vernon	269,877	250,419	19,458
Washington	68,055	62,900	5,155
Webster	104,894	80,694	24,200
West Baton Rouge	1,281	152	1,129
West Carroll	1,335	9	1,326
West Feliciana	12,253	4,145	8,108
Winn	258,853	177,875	80,978
All parishes	4,850,120	3,554,437	1,295,683

*Parishes with no pulpwood production are omitted.

Table 11.—*Round pulpwood production in Mississippi, 1990*

County*	All species	Softwood	Hardwood
..... <i>Standard cords</i>			
Adams	47,568	5,659	41,909
Alcorn	36,946	26,911	10,035
Amite	106,944	66,528	40,416
Attala	204,703	161,146	43,557
Benton	24,750	17,684	7,066
Calhoun	22,005	13,867	8,138
Carroll	56,935	34,029	22,906
Chickasaw	101,914	95,674	6,240
Choctaw	50,002	38,869	11,133
Claiborne	73,835	22,275	51,560
Clarke	140,757	74,984	65,773
Clay	25,135	15,663	9,472
Coahoma	4,113	0	4,113
Copiah	135,357	60,672	74,685
Covington	88,126	41,553	46,573
De Soto	4,554	2,385	2,169
Forrest	121,783	69,640	52,143
Franklin	95,680	38,966	56,714
George	50,544	35,424	15,120
Greene	186,619	130,713	55,906
Grenada	59,166	12,488	46,678
Hancock	85,815	77,602	8,213
Harrison	66,134	60,162	5,972
Hinds	69,897	21,668	48,229
Holmes	103,446	51,874	51,572
Humphreys	5,977	0	5,977
Issaquena	9,671	8	9,663
Itawamba	108,396	44,148	64,248
Jackson	52,332	38,489	13,843
Jasper	94,015	32,647	61,368
Jefferson	109,627	37,365	72,262
Jefferson Davis	63,072	37,568	25,504
Jones	157,104	83,038	74,066
Kemper	153,609	98,387	55,222
Lafayette	58,784	47,683	11,101
Lamar	86,487	71,529	14,958
Lauderdale	156,109	70,158	85,951
Lawrence	92,149	58,610	33,539
Leake	93,181	51,772	41,409
Lee	16,329	11,810	4,519
Leflore	1,326	215	1,111
Lincoln	99,612	56,660	42,952
Lowndes	19,271	3,597	15,674
Madison	35,594	18,327	17,267
Marion	89,820	48,589	41,231
Marshall	56,262	48,942	7,320
Monroe	32,564	15,565	16,999
Montgomery	66,508	37,653	28,855

Table 11.—*Round pulpwood production in Mississippi, 1990—Continued*

County*	All species	Softwood	Hardwood
	<i>Standard cords</i>		
Neshoba	123,989	50,699	73,290
Newton	104,711	47,213	57,498
Noxubee	24,432	14,018	10,414
Oktibbeha	61,904	56,747	5,157
Panola	23,518	17,555	5,963
Pearl River	150,051	119,246	30,805
Perry	83,731	52,195	31,536
Pike	93,419	53,704	39,715
Pontotoc	27,392	16,992	10,400
Prentiss	80,005	38,649	41,356
Quitman	377	209	168
Rankin	170,175	111,488	58,687
Scott	107,186	76,565	30,621
Sharkey	2,619	0	2,619
Simpson	84,005	40,085	43,920
Smith	129,013	48,598	80,415
Stone	51,264	42,089	9,175
Sunflower	820	97	723
Tallahatchie	8,931	5,101	3,830
Tate	7,421	5,133	2,288
Tippah	90,757	38,143	22,614
Tishomingo	116,356	80,753	35,603
Union	23,325	15,819	7,506
Walthall	37,553	21,652	15,901
Warren	44,517	2,605	41,912
Washington	11,891	38	11,853
Wayne	162,275	88,199	74,076
Webster	24,428	16,979	7,449
Wilkinson	68,403	266,453	41,950
Winston	66,201	46,383	19,818
Yalobusha	37,932	23,164	14,768
Yazoo	22,444	3,532	18,912
All counties	5,631,572	3,249,299	2,382,273

*Counties with no pulpwood production are omitted.

Table

County*	All species	Softwood	Hardwood
-----Standard cords-----			
Alamance	2,559	2,550	9
Alexander	6,708	3,752	2,956
Alleghany	6	6	0
Anson	73,115	49,615	23,500
Ashe	452	19	433
Avery	5,876	3,596	2,280
Beaufort	280,608	228,323	52,285
Bertie	128,912	64,327	64,585
Bladen	84,203	40,326	43,877
Brunswick	66,918	47,773	19,145
Buncombe	69,798	41,579	28,219
Burke	62,044	34,091	27,953
Cabarrus	3,847	2,723	1,124
Caldwell	14,961	8,157	6,804
Camden	33,969	12,244	21,725
Carter-et	20,464	14,506	5,958
Caswell	15,824	0	15,824
Catawba	14,193	12,442	1,751
Chatham	40,451	26,653	13,798
Cherokee	53,814	45,285	8,529
Chowan	35,921	25,968	9,953
Clay	10,762	6,361	4,401
Cleveland	30,531	25,353	5,178
Columbus	212,268	130,016	82,252
Craven	177,990	133,904	44,086
Cumberland	57,759	35,862	21,897
Currituck	21,497	6,535	14,962
Dare	203	65	138
Davidson	1,836	1,758	78
Davie	2,866	784	2,082
Duplin	96,698	59,325	37,373
Durham	944	848	96
Edgecombe	36,646	16,969	19,677
Forsyth	25	0	25
Franklin	42,429	26,493	15,936
Gaston	7,110	5,858	1,252
Gates	48,114	15,862	32,252
Graham	10,795	5,999	4,796
Granville	-23,405	18,039	5,366
Greene	50,858	31,829	19,029
Guilford	4,053	1,204	2,849
Halifax	112,931	48,157	64,774
Harnett	21,890	10,950	10,940
Haywood	77,636	42,326	35,310
Henderson	9,488	4,197	5,291
Hertford	90,435	43,427	47,008
Hoke	5,332	3,174	2,158
Hyde	131,123	54,692	76,431
Iredell	10,648	9,794	854
Jackson	31,629	21,840	9,789
Johnston	15,651	6,281	9,370
Jones	82,218	58,637	23,581

Table 12.—*Round pulpwood production in North Carolina, 1990—*
Continued

County*	All species	Softwood	Hardwood
-----Standard cords-----			
Lee	11,719	4,917	6,802
Lenoir	61,244	36,957	24,287
Lincoln	17,178	15,309	1,869
McDowell	32,739	14,458	18,281
Macon	26,903	14,031	12,872
Madison	19,617	11,060	8,557
Martin	69,028	58,308	10,720
Mecklenburg	8,106	7,678	428
Mitchell	5,875	3,595	2,280
Montgomery	39,149	20,787	18,362
Moore	53,709	30,535	23,174
Nash	48,851	21,895	26,956
New Hanover	26,234	19,499	6,735
Northampton	70,904	20,770	50,134
Onslow	65,902	51,636	14,266
Orange	1,126	487	639
Pamlico	106,609	97,917	8,692
Pasquotank	9,048	3,030	6,018
Pender	101,523	71,290	30,233
Perquimans	64,460	43,768	20,692
Person	21,350	5,526	15,824
Pitt	75,085	51,507	23,578
Polk	41,269	25,290	15,979
Randolph	149	67	82
Richmond	33,234	18,221	15,013
Robeson	109,378	66,660	42,718
Rockingham	18,034	975	17,059
Rowan	4,042	3,916	126
Rutherford	91,957	54,879	37,078
Sampson	79,934	39,950	39,984
Scotland	18,336	15,910	2,426
Stanly	14,701	8,509	6,192
Stokes	16,710	3	16,707
Surry	5,928	1,834	4,094
Swain	18,900	11,314	7,586
Transylvania	11,582	4,173	7,409
Tyrrell	32,878	25,350	7,528
Union	9,839	8,950	889
Vance	22,613	15,509	7,104
Wake	29,771	19,472	10,299
Warren	58,655	34,898	23,757
Washington	23,681	7,622	16,059
Watauga	228	12	216
Wayne	41,271	12,228	29,043
Wilkes	28,081	7,983	20,098
Wilson	69,821	42,442	27,379
Yadkin	1,333	385	948
Yancey	6,227	3,606	2,621
All counties	4,165,324	2,525,592	1,639,732

*Counties with no pulpwood production are omitted.

Table 13.—*Round pulpwood production in Oklahoma, 1990*

County*	All species	Softwood	Hardwood
<i>-----Standard cords----</i>			
Choctaw	9,423	4,429	4,994
Latimer	62	51	11
Le Flore	3,231	1,710	1,521
McCurtain	786,688	601,160	185,528
Pushmataha	39,592	19,360	20,232
All counties	838,996	626,710	212,286

*Counties with no pulpwood production are omitted.

Table 14.—*Round pulpwood production in South Carolina, 1990*

County*	All species	Softwood	Hardwood
<i>-----Standard cords-----</i>			
Abbeville	49,921	28,978	20,943
Aiken	73,522	56,476	17,046
Allendale	46,448	35,931	10,517
Anderson	18,531	10,275	8,256
Bamberg	23,104	12,004	11,100
Barnwell	44,474	24,865	19,609
Beaufort	15,192	9,553	5,639
Berkeley	199,788	171,983	27,805
Calhoun	19,106	11,763	7,343
Charleston	89,444	72,492	16,952
Cherokee	54,142	47,256	6,886
Chester	92,084	63,498	28,586
Chesterfield	104,585	70,619	33,966
Clarendon	116,433	70,809	45,624
Colleton	99,199	81,703	17,496
Darlington	45,081	20,740	24,341
Dillon	24,964	12,951	12,013
Dorchester	130,775	188,048	12,727
Edgefield	96,496	63,341	33,155
Fairfield	83,676	64,555	19,121
Florence	86,278	61,738	24,540
Georgetown	199,386	147,994	51,392
Greenville	41,257	24,458	16,799
Greenwood	45,558	20,016	25,542
Hampton	75,228	41,427	33,801
Horry	110,796	82,245	28,551
Jasper	106,755	88,600	18,155
Kershaw	189,897	157,102	32,795

Continued

County*	All species	Softwood	Hardwood
-----Standard cords-----			
Lancaster	134,563	110,978	23,585
Laurens	82,069	58,907	23,162
Lee	72,307	57,219	15,088
Lexington	53,175	37,635	15,540
McCormick	54,078	35,861	18,217
Marion	60,256	33,107	27,149
Marlboro	48,132	29,092	19,040
Newberry	111,517	87,983	23,534
Oconee	35,460	28,287	7,173
Orangeburg	105,809	61,142	44,667
Pickens	28,988	18,536	10,452
Richland	71,492	49,451	22,041
Saluda	36,977	25,668	11,309
Spartanburg	121,927	98,109	23,518
Sumter	113,145	82,643	30,502
Union	64,174	52,691	11,483
Williamsburg	220,880	161,539	59,341
York	66,831	63,094	3,737
All counties	3,763,600	2,763,362	1,000,238

*Counties with no pulpwood production are omitted.

Table 15.—*Round pulpwood production in Tennessee, 1990*

County*	All species	Softwood	Hardwood
..... <i>Standard cords</i>			
Anderson	382	382	0
Bedford	1,099	1,099	0
Benton	27,780	18,063	9,717
Bledsoe	8,352	1,079	7,273
Blount	21,647	21,475	172
Bradley	26,356	25,647	709
Campbell	1,886	267	1,619
Carroll	8,808	6,017	2,791
Carter	3,745	0	3,745
Cheatham	440	440	0
Chester	8,561	5,724	2,837
Cocke	5,080	1,748	3,332
Coffee	2,472	2,472	0
Cumberland	14,336	14,056	280
Davidson	35	35	0
Decatur	15,752	10,006	5,746
Dickson	85	85	0
Fayette	1,851	445	1,406
Fentress	11,516	11,397	119
Franklin	3,273	0	3,273
Giles	3,633	2,958	675
Grainger	846	0	846
Greene	3,321	368	2,953
Grundy	11,510	3,510	8,000
Hamilton	54,101	48,516	5,585
Hancock	1,872	324	1,548
Hardeman	13,228	7,851	5,377
Hardin	61,702	50,397	11,305
Hawkins	12,064	0	12,064
Haywood	116	57	59
Henderson	6,627	4,883	1,744
Henry	9,054	668	8,386
Hickman	54,325	7,050	47,275
Humphreys	28,471	903	27,568
Jefferson	844	331	513
Johnson	2,532	0	2,532
Knox	6,680	6,631	49
Lawrence	16,260	6,522	9,738
Lewis	12,314	3,254	9,060
Lincoln	1,756	1,756	0
Loudon	5,870	5,594	276
McMinn	56,386	51,865	4,521
McNairy	63,742	44,181	19,561
Madison	2,550	1,222	1,328
Marion	25,709	12,982	12,727
Maury	70	0	70
Meigs	29,558	28,685	873
Monroe	51,898	49,101	2,797
Morgan	14,969	14,951	18
Over-ton	1,205	1,205	0

Table *X-Round pulpwood production in Tennessee, 1990—Continued*

County*	All species	Softwood	Hardwood
.....Standard cords.....			
Perry	12,709	6,065	6,644
Polk	51,166	45,204	5,962
Putnam	7,837	7,837	0
Rhea	56,422	56,281	141
Roane	22,587	21,333	1,254
Scott	1,142	905	237
Sequatchie	27,270	22,906	4,364
Stewart	43,339	8,077	35,262
Sullivan	3,572	0	3,572
Unicoi	2,528	0	2,523
Union	613	59	554
Van Buren	9,207	9,207	0
Warren	5,445	5,445	0
Washington	266	0	266
Wayne	105,856	27,394	73,462
Weakley	5,463	912	4,551
White	28,567	28,567	0
All counties	1,100,658	716,394	384,264

*Counties with no pulpwood production are omitted.

Table 16.—*Round pulpwood production in Texas, 1990*

County*	All species	Softwood	Hardwood
<i>.....Standard cords.....</i>			
Anderson	7,381	5,791	1,590
Angelina	214,524	214,343	181
Bastrop	4,744	4,744	0
Bowie	87,218	52,335	34,883
Camp	5,145	2,682	2,463
Cass	275,588	163,900	111,688
Chambers	1,178	983	195
Cherokee	56,898	52,920	3,978
Fayette	164	164	0
Franklin	1,613	1,069	544
Gregg	12,489	6,489	6,000
Grimes	9,640	9,361	279
Hardin	155,377	141,197	14,180
Harris	9,888	9,838	50
Harrison	123,906	73,079	50,827
Henderson	1,201	488	713
Houston	22,836	22,836	0
Jasper	175,012	141,878	33,134
Jefferson	2,451	2,264	187
Liberty	55,799	51,204	4,595
Llano	15,775	8,041	7,734
Marion	75,545	48,314	27,231
Montgomery	56,627	54,436	2,191
Morris	47,251	25,212	22,039
Nacogdoches	37,707	30,801	6,906
Newton	130,721	107,016	23,705
Orange	16,683	9,483	7,200
Panola	81,239	61,977	19,262
Polk	110,253	110,253	0
Red River	907	40	867
Rusk	44,346	37,818	6,528
Sabine	105,933	89,530	16,403
San Augustine	27,786	22,451	5,335
San Jacinto	44,199	44,199	0
Shelby	111,749	87,058	24,691
Smith	29,648	22,605	7,043
Titus	6,417	2,114	4,303
Trinity	65,418	65,406	12
Tyler	48,400	47,116	1,284
Upshur	42,263	26,975	15,288
Walker	26,348	26,348	0
Waller	21,123	21,123	0
All counties	2,369,390	1,905,881	463,509

*Counties with no pulpwood production are omitted.

Table 17.—*Round pulpwood production in Virginia, 1990*

County*	All species	Softwood	Hardwood
..... <i>Standard cords</i>			
Accomack	11,547	9,867	1,680
Albermarle	33,934	15,376	18,558
Alleghany	33,977	4,077	29,900
Amelia	47,278	24,773	22,505
Amherst	36,751	14,220	22,531
Appomattox	65,073	39,088	25,985
Arlington	85	85	0
Augusta	9,431	2,233	7,198
Bath	20,816	2,850	17,966
Bedford	36,274	6,915	29,359
Bland	232	0	232
Botetourt	38,856	5,599	33,257
Brunswick	127,683	88,508	39,175
Buchanan	1,517	0	1,517
Buckingham	142,137	93,004	49,133
Campbell	90,438	50,542	39,896
Caroline	27,266	20,420	6,846
Charles City	30,165	24,915	5,250
Charlotte	135,540	76,985	58,555
Chesapeake	8,344	2,599	5,745
Chesterfield	26,477	19,599	6,878
Clarke	894	850	44
Craig	17,245	3,067	14,178
Culpeper	19,540	15,574	3,966
Cumberland	45,693	26,253	19,440
Dickenson	861	0	861
Dinwiddie	69,975	37,503	32,472
Essex	22,453	17,006	5,447
Fairfax	1,799	1,772	27
Fauquier	16,205	14,314	1,891
Floyd	64	33	31
Fluvanna	17,605	6,607	10,998
Franklin	56,582	22,505	34,077
Frederick	5,969	4,198	1,771
Giles	1,754	86	1,668
Gloucester	25,667	18,644	7,023
Goochland	30,529	23,141	7,388
Grayson	2,952	92	2,860
Greene	2,458	1,096	1,362
Greensville	50,417	16,167	34,250
Halifax	71,051	34,829	36,222
Hanover	17,790	13,376	4,414
Henrico	5,876	4,306	1,570
Henry	9,462	2,101	7,361
Highland	12,012	1,423	10,589
Isle of Wight	14,994	5,477	9,517
James City	20,477	17,491	2,986
King and Queen	38,413	26,885	11,528
King George	2,499	1,992	507
King William	25,313	21,625	3,688

Table 17.—*Round pulpwood production in Virginia, 1990—Continued*

County*	All species	Softwood	Hardwood
<i>.....Standard cords.....</i>			
Lancaster	8,953	4,827	4,126
Lee	18,620	0	18,620
Loudoun	25	0	25
Louisa	32,472	30,491	1,981
Lunenburg	46,591	25,206	21,385
Madison	750	276	474
Mathews	1,795	834	961
Mecklenburg	39,490	16,103	23,387
Middlesex	3,780	1,062	2,718
Montgomery	22	0	22
Nelson	60,211	22,136	38,075
New Kent	57,287	30,742	26,545
Newport News	13	13	0
Northampton	1,582	580	1,002
Northumberland	6,434	2,657	3,777
Nottoway	25,224	17,135	8,089
Orange	7,666	4,254	3,412
Patrick	130	0	130
Pittsylvania	69,122	33,889	35,233
Powhatan	29,250	22,464	6,786
Prince Edward	53,928	32,846	21,082
Prince George	39,477	27,583	11,894
Prince William	823	651	172
Pulaski	690	0	690
Richmond	14,401	10,909	3,492
Roanoke	197	0	197
Rockbridge	16,450	3,433	13,017
Rockingham	4,086	1,175	2,911
Russell	7,173	0	1,173
Scott	27,237	0	27,237
Shenandoah	4,989	3,106	1,883
Smyth	4,073	127	3,946
Southampton	100,046	27,222	72,824
Spotsylvania	49,328	37,739	11,589
Stafford	2,256	1,886	370
Suffolk	41,119	20,604	20,515
Surry	18,429	12,449	5,980
Sussex	42,394	25,157	17,237
Tazewell	27	0	27
Virginia Beach	3,944	643	3,301
Warren	493	319	174
Washington	9,872	0	9,872
Westmoreland	9,155	5,431	3,724
Wise	17,587	0	17,587
Wythe	3,665	0	3,665
York	3,411	1,224	2,187
All counties	2,415,037	1,265,241	1,149,796

*Counties with no pulpwood production are omitted.

Table 18.-Southern pulpmills, by process and capacity, 1990

			Pulping capacity, 24 hours [†]				
Location	Map code*	Company	All processes	Sulfate	Groundwood and other mechanical	Semi- chemical	Soda and sulfite
-----Tons-----							
Alabama							
Clairborne	(1)	Alabama River Pulp Company	1,143	1,143	0	0	0
Jackson	(2)	Boise Cascade Paper Group	600	600	0	0	0
Courtland	(3)	Champion International Corporation	1,530	1,530	0	0	0
Brewton	(4)	Jefferson Smurfit/CCA	1,300	1,300	0	0	0
Mobile	(5)	GAF Corporation	50	0	50	0	0
Demopolis	(6)	Gulf States Paper Corporation	700	700	0	0	0
Selma	(7)	International Paper Company	1,285	1,285	0	0	0
Mobile	(8)	International Paper Company	1,500	1,200	300	0	0
Naheola	(9)	James River Corporation	1,250	1,250	0	0	0
Coosa Pines	(10)	Kimberly-Clark Corporation	2,040	1,100	940	0	0
Pine Hill	(11)	McMillan Bloedel, Inc.	1,684	1,100	0	584	0
Mahrt	(12)	Mead Coated-board	2,000	2,000	0	0	0
Stevenson	(13)	Mead Paperboard	1,030	0	0	1,030	0
Mobile	(14)	Scott Paper Company	1,700	1,700	0	0	0
Montgomery	(15)	Union Camp Corporation	2,300	2,300	0	0	0
Total			20,112	17,208	1,290	1,614	0
Arkansas							
Crosset	(16)	Georgia-Pacific Corporation	1,500	1,500	0	0	0
Morrilton	(17)	Green Bay Packaging, Inc.	800	800	0	0	0
Camden	(18)	International Paper Company	750	750	0	0	0
Pine Bluff	(19)	International Paper Company	1,700	1,300	400	0	0
Pine Bluff	(20)	Gaylord Container Corporation	380	380	0	0	0
Ashdown	(21)	Nekoosa Papers, Inc.	1,550	1,550	0	0	0
McGehee	(22)	Potlatch Corporation	535	535	0	0	0
Little Rock	(23)	Superwood Corporation	140	0	140	0	0
Total			7,355	6,815	540	0	0
Florida							
Perry	(24)	Proctor and Gamble Cellulose	1,100	1,100	0	0	0
Cantonment	(25)	Champion International Corporation	1,400	1,400	0	0	0
Palatka	(26)	Georgia-Pacific Corporation	1,400	1,400	0	0	0
Fernandina Beach	(27)	I.T.T. Rayonier, Inc.	425	0	0	0	425
Fernandina Beach	(28)	Jefferson Smurfit Corporation	2,100	2,100	0	0	0
Jacksonville	(29)	Jefferson Smurfit Corporation	1,000	1,000	0	0	0
Port St. Joe	(30)	St. Joe Paper Company	1,700	1,700	0	0	0
Jacksonville	(31)	Stone Container Corp., Seminole Kraft	1,400	1,400	0	0	0
Panama City	(32)	Stone Container Corporation	1,580	1,580	0	0	0
Total			12,105	11,686	0	0	425
Georgia							
Augusta	(33)	Augusta Newsprint Company	1,200	0	1,200	0	0
Brunswick	(34)	Georgia-Pacific Corporation	2,000	2,000	0	0	0
Oglethorpe	(35)	Proctor and Gamble Cellulose	750	750	0	0	0
Augusta	(36)	Federal Paper Board Company	1,300	1,300	0	0	0
Macon	(37)	Macon Kraft Company	1,000	1,000	0	0	0
Rome	(38)	Inland-Rome, Inc.	2,200	2,200	0	0	0
St. Marys	(39)	Gilman Paper Co.	1,200	1,200	0	0	0
CedarSprings	(40)	Great Southern Paper Company	2,910	2,395	0	515	0
Riceboro	(41)	Interstate Paper Corporation	680	680	0	0	0
Jesup	(42)	I.T.T. Rayonier, Inc.	1,725	1,725	0	0	0
Valdosta	(43)	Georgia-Pacific Corporation	1,100	1,100	0	0	0
Port Wentworth	(44)	Stone Container Corporation	850	850	0	0	0
Savannah	(45)	Union Camp Corporation	3,000	3,000	0	0	0
Total			19,916	18,200	1,200	515	0

Table 18.—*Southern pulpmills, by process and capacity, 1990* continued

			Pulping capacity, 24 hours [†]				
Location	Map code*	Company	All processes	Sulfate	Groundwood and other mechanical	Semi- chemical	Soda and sulfite
-----Tons-----							
Louisiana							
DeRidder	(46)	Boise Cascade Corporation	2,250	1,305	945	0	0
St. Francisville	(47)	James River Communication Papers	550	550	0	0	0
St. Francisville	(48)	James River Communication Papers	250	0	250	0	0
Bogalusa	(49)	Gaylord Container Corporation	1,600	1,600	0	0	0
Port Hudson	(50)	Georgia-Pacific Corporation	1,850	1,850	0	0	0
Bastrop	(51)	International Paper Company	1,100	1,100	0	0	0
Pineville	(52)	International Paper Company	985	985	0	0	0
Mansfield	(53)	International Paper Company	1,900	1,400	0	500	0
West Monroe	(54)	Manville Forest Products Corporation	2,000	1,600	0	400	0
Hodge	(55)	Stone Container Corporation	1,750	1,400	0	350	0
Campti	(56)	Willamette Industries, Inc.	850	850	0	0	0
Total			15,085	12,640	1,195	1,250	0
Mississippi							
Moss Point	(57)	International Paper Company	700	700	0	0	0
Natchez	(58)	International Paper Company	1,100	1,100	0	0	0
Vicksburg	(59)	International Paper Company	1,180	1,180	0	0	0
Monticello	(60)	Georgia-Pacific Corporation	2,600	2,600	0	0	0
NewAugusta	(61)	Georgia-Pacific Corporation	1,485	1,485	0	0	0
Laurel	(62)	Masonite Corporation	3,380	0	3,380	0	0
Columbus	(63)	WeyerhaeuserCompany	1,400	1,200	0	200	0
Grenada	(64)	Newsprint South	670	0	670	0	0
Total			12,515	8,265	4,050	200	0
North Carolina							
RoaringRiver	(65)	Abitibi-Price Corporation	500	0	500	0	0
Goldsboro	(66)	Celotex Corporation	100	0	100	0	0
Canton	(67)	ChampionInternational Corporation	1,480	1,480	0	0	0
Roanoke Rapids	(68)	ChampionInternational Corporation	1,300	1,300	0	0	0
Riegelwood	(69)	Federal Paper Board Company, Inc.	2,250	2,250	0	0	0
Conway	(70)	Georgia-PacificCorporation	200	0	200	0	0
New Bern	(71)	WeyerhaeuserCompany	750	750	0	0	0
Plymouth	(72)	WeyerhaeuserCompany	1,550	1,300	0	250	0
Total			8,130	7,080	800	250	0
Oaklahoma							
Pryor	(73)	Georgia-Pacific Corporation	200	0	200	0	0
Valliant	(74)	WeyerhaeuserCompany	2,150	1,650	0	500	0
Total			2,350	1,650	200	500	0

Table 18.—*Southern pulpmills, by process and capacity, 1990—Continued*

			Pulping capacity, 24 hours [†]				
Location	Map code*	Company	All processes	Sulfate	Groundwood and other mechanical	Semi- chemical	Soda and sulfite
-----Tons-----							
South Carolina							
Catawba	(75)	Bowaters Carolina Corporation	1,390	1,130	260	0	0
Catawba	(76)	Catawba Newsprint Company	680	0	680	0	0
Georgetown	(77)	International Paper Company	1,713	1,613	0	100	0
Sellers	(78)	Masonite Corporation	450	0	450	0	0
Hartsville	(79)	Sonoco Products Company	300	0	0	300	0
Florence	(80)	Stone Container Corporation	1,400	1,400	0	0	0
Eastover	(81)	Union Camp Corporation	700	700	0	0	0
Charleston	(82)	Westvaco Corporation	2,300	2,300	0	0	0
Total			8,933	7,143	1,390	400	0
Tennessee							
Calhoun	(83)	Bowaters Southern Paper Corporation	2,400	700	1,700	0	0
New Johnsonville	(84)	Inland Container Corporation	400	0	0	400	0
Ringsport	(85)	Mead Paper	350	0	0	0	350
Knoxville	(86)	Tamko Asphalt Products, Inc.	125	0	125	0	0
Counce	(87)	Tennessee River Pulp and Paper Company	1,700	1,700	0	0	0
Total			4,975	2,400	1,825	400	350
Texas							
Houston	(88)	Champion International Corporation	1,725	575	1,150	0	0
Lufkin	(89)	Champion International Corporation	1,300	500	800	0	0
Pasadena	(90)	Simpson Pasadena Paper Company	800	800	0	0	0
Orange	(91)	Temple Inland Forest Products	1,200	1,200	0	0	0
Texarkana	(92)	International Paper Company	1,200	1,200	0	0	0
Diboll	(93)	Temple Inland Forest Products Corp.	1,430	0	1,430	0	0
Evadale	(94)	Temple Inland Forest Products Corp.	1,675	1,675	0	0	0
Total			9,330	5,950	3,380	0	0
Virginia							
Ashland	(95)	Bear Island Paper Company	620	0	620	0	0
West Point	(96)	Chesapeake Corporation	1,450	1,450	0	0	0
Jarratt	(97)	Georgia-Pacific Corporation	450	0	450	0	0
Big Island	(98)	Georgia-Pacific Corporation	675	0	0	675	0
Hopewell	(99)	Stone Container Corporation	1,050	1,050	0	0	0
Franklin	(100)	Union Camp Corporation	1,950	1,950	0	0	0
Riverville	(101)	Virginia Fiber Corporation	600	0	0	600	0
Covington	(102)	Westvaco Corporation	1,360	1,200	0	160	0
Danville	(103)	Wood Fiber Industries	330	0	330	0	0
Total			8,485	5,650	1,400	1,435	0
Total South			129,290	104,681	17,270	6,564	775

*Corresponds to numbers at locations on mill capacity map, figure 4.

[†]*Southern Pulp and Paper Directory*, Vol. 53, No. 11 (October, 1990) and other sources.

Table 19.—*Other mills using southern pulpwood in 1990, by process and capacity*

		Pulping capacity, 24 hours*				
Location	Company	All processes	Sulfate	Groundwood and other mechanical	Semi-chemical	Soda and sulfite
<i>Tons</i>						
Kentucky						
Wickliffe	Westvaco Corporation	700	700	0	0	0
Hawesville	Willamette Industries	1,010	0	0	1,010	0
Maryland						
Luke	Westvaco Corporation	907	907	0	0	0
Ohio						
Coshocton	Stone Container Corporation	575	0	0	575	0
Pennsylvania						
Spring Grove	P.H. Glatfelter Company	550	550	0	0	0

*Southern Pulp and Paper Directory, Vol. 53, No. 11 (October, 1990) and other sources.

Table 20.—*Pulpmills under construction in the South*

Location	Map code*	Company	Pulping capacity, 24 hours
			<i>Tons</i>
South Carolina			
Bennettsville	(*)	Willamette Industries	600

*Symbol on mill capacity map, figure 4.

Vissage, John S; Miller, Patrick E. 1992. Southern pulpwood production, 1990. Resour. Bull. SO-175 New Orleans, **LA**: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station. 30 p.

In 1990, Southern pulpwood production exceeded 65 million cords, roundwood production increased 9 percent to 45.6 million cords, and wood residue production increased 2 percent to 19.4 million cords. The pulping capacity of the 103 Southern pulpmills was 129,290 tons per day. One **pulpmill** was under construction.

Keywords: Pulpmills, roundwood, wood residues.