



United States
Department of
Agriculture

Forest Service

**Southern Forest
Experiment Station**

New Orleans,
Louisiana

Resource Bulletin
so-159



Southern Pulpwood Production, 1988

John S. Vissage

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Southern Forest Experiment Station
New Orleans, Louisiana

and

Southeastern Forest Experiment Station
Asheville, North Carolina

of the

Forest Service, U.S. Department of Agriculture

in cooperation with the

American Pulpwood Association

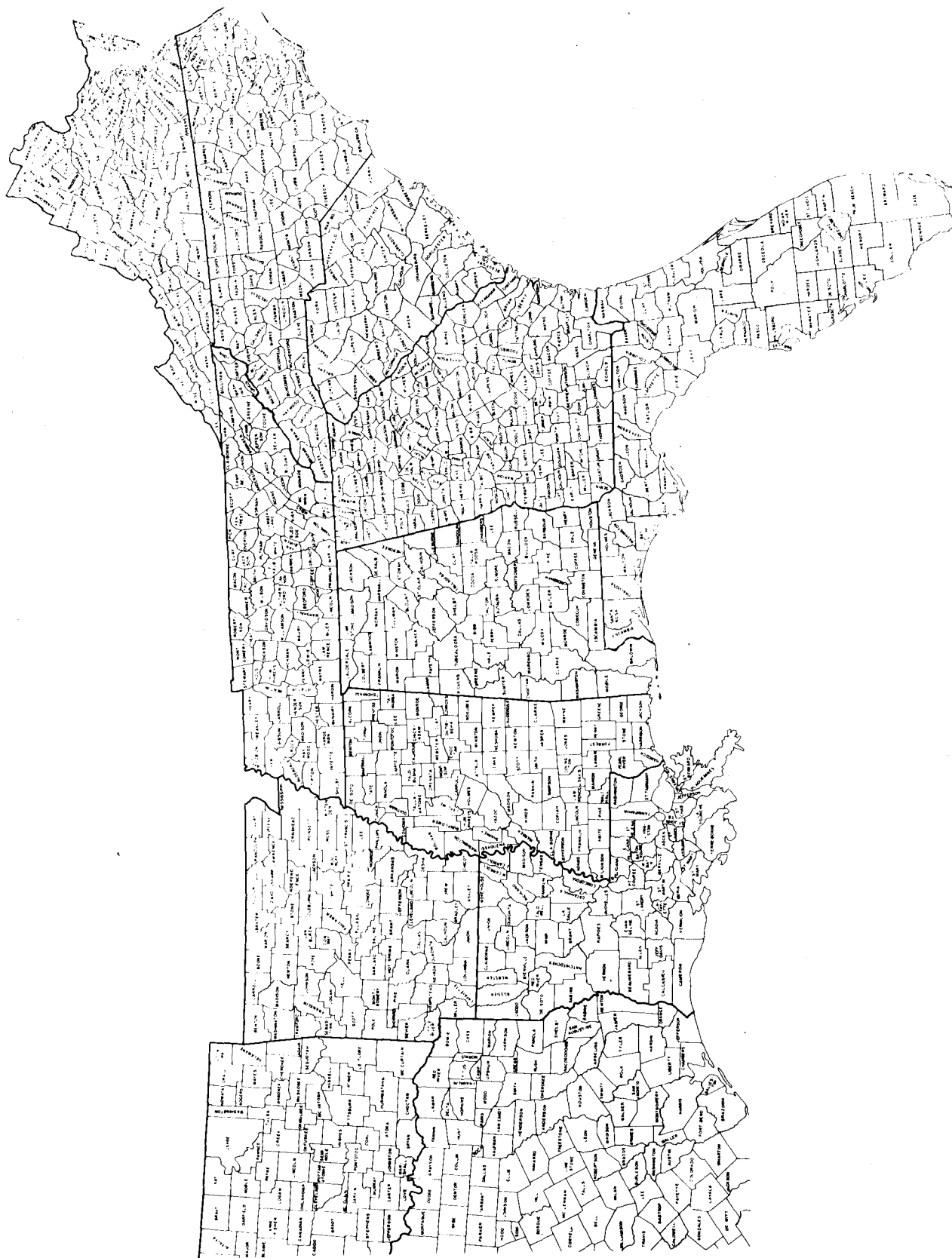


Figure 1.—The 12 States and the counties in each.

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INTRODUCTION

This publication presents the findings of an annual 100-percent canvass of pulpmills that draw roundwood or wood residues from 12 Southern States (fig. 1). Canvass data are compiled and analyzed on an alternating basis by personnel from the Southern and Southeastern Forest Experiment Stations. Production figures are reported in standard cords. Data from mills reporting nonstandard units were converted to cords using regional conversion factors.

PULPWOOD

A stable economy helped to create a stable demand for pulp and paper products in 1988. In turn, this situation helped to create a stable demand for southern pulpwood. Pulpwood production fell slightly in 1988 but still exceeded 62 million cords (table 1). Despite a 7-percent decrease since 1987, Georgia ranked first in pulpwood production with over 9.9 million cords. Alabama, with virtually no change since 1987, ranked second in pulpwood production at just over 9.3 million cords, and third-ranked Mississippi experienced a 4-percent increase to nearly 7.2 million cords. Together, these three States supplied over 40 percent of total pulpwood production.

Southern pulpwood production has increased about 14 percent since 1979 to meet the demand created by greater pulping capacity (fig. 2). Softwood continues to be the primary species group used for pulpwood, but the proportion of softwood to total production has decreased from 75 percent in 1979 to 70 percent in 1988 (fig. 3). Softwood production has increased about 6 percent, and hardwood production has increased approximately 39 percent since 1979.

The Midsouth produced about 54 percent of the region's pulpwood (table 5). Softwood pulpwood pro-

duction was virtually equal in both sections. On the other hand, Midsouth States produced about 63 percent of the hardwood pulpwood.

Roundwood

In 1988, Alabama led roundwood production with 6.8 million cords (table 2). Georgia, a close second, produced 6.6 million cords of roundwood. The third leading producer of roundwood was Mississippi with 4.6 million cords. Overall, the South's roundwood production increased by 1-percent (table 2); however, softwood production decreased by 1-percent, and hardwood production increased nearly 5 percent. Softwoods were about 67 percent of roundwood production, with hardwoods contributing about 33 percent.

In 1988, eight counties produced 300,000 cords or more, 21 counties produced 200,000 cords or more, and 128 counties produced 100,000 cords or more of roundwood (tables 6-17). By far the leader in softwood production with over 5.2 million cords, Georgia accounted for almost 19 percent of the South's softwood roundwood. Alabama and Florida followed with 3.8 and 3.4 million cords of softwoods respectively. Alabama was the leader in hardwood roundwood production with nearly 3.0 million cords—almost 22 percent of the region's total. Mississippi followed with almost 2.1 million cords of hardwood, and Georgia ranked third with approximately 1.4 million cords of hardwood.

Roundwood continued as the primary material used in pulp manufacture and accounted for 70 percent of the total pulpwood production (fig. 2). Roundwood production increased about 16 percent since 1979. Hardwood increased about 43 percent in the last 10 years and accounted for 73 percent of the increase in roundwood production. About 33 percent of the roundwood production was hardwood in 1988 compared with 27 percent in 1979. Production of softwood roundwood increased about 6 percent in the past decade.

MILL CAPACITY (TONS PER DAY)

• LESS THAN 250

● 250 TO 499

■ 500 TO 999

● 1,000 TO 1,499

● 1,500 OR MORE

○ 0 MILL UNDER CONSTRUCTION

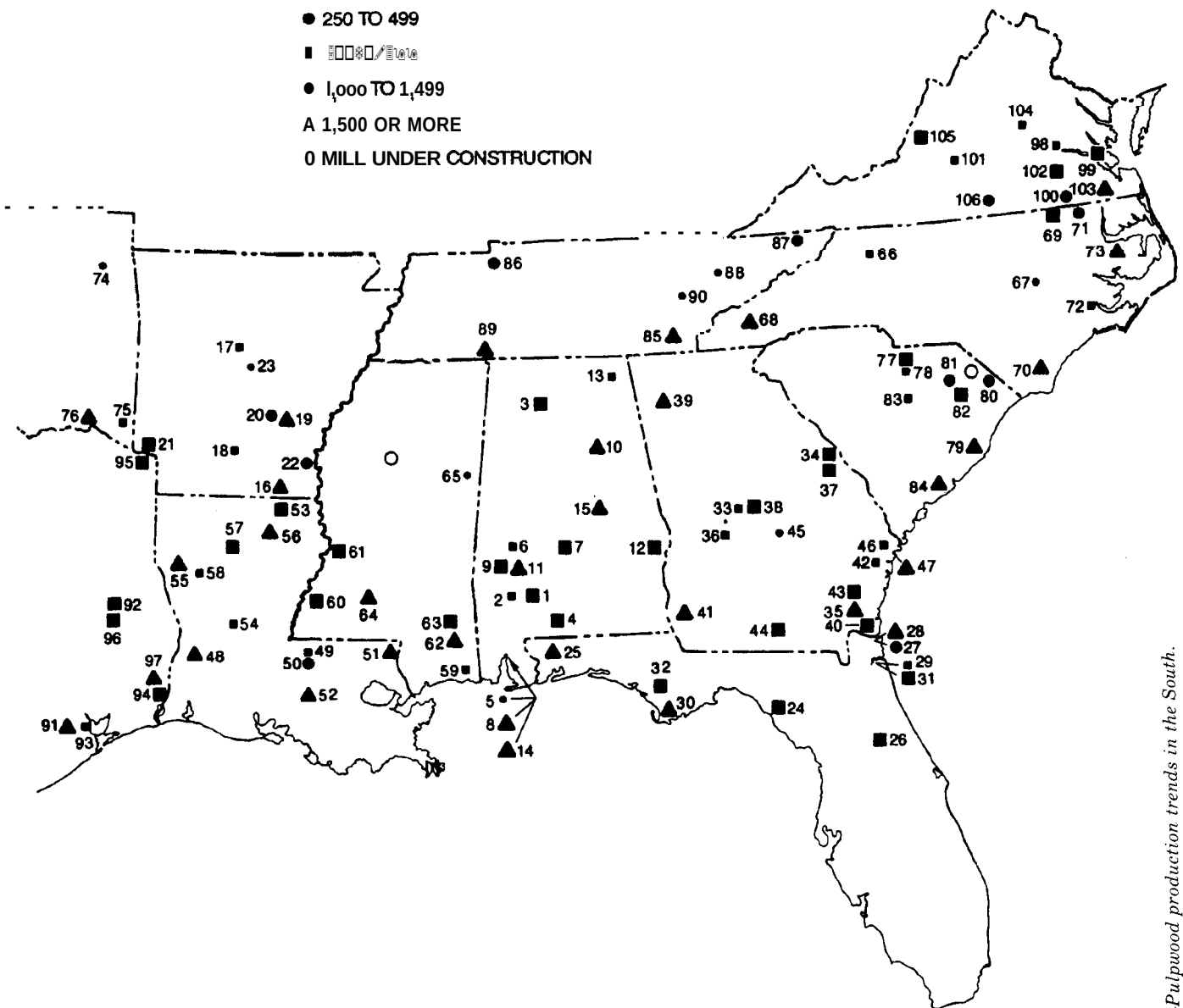


Figure 2.—Pulpwood production trends in the South.

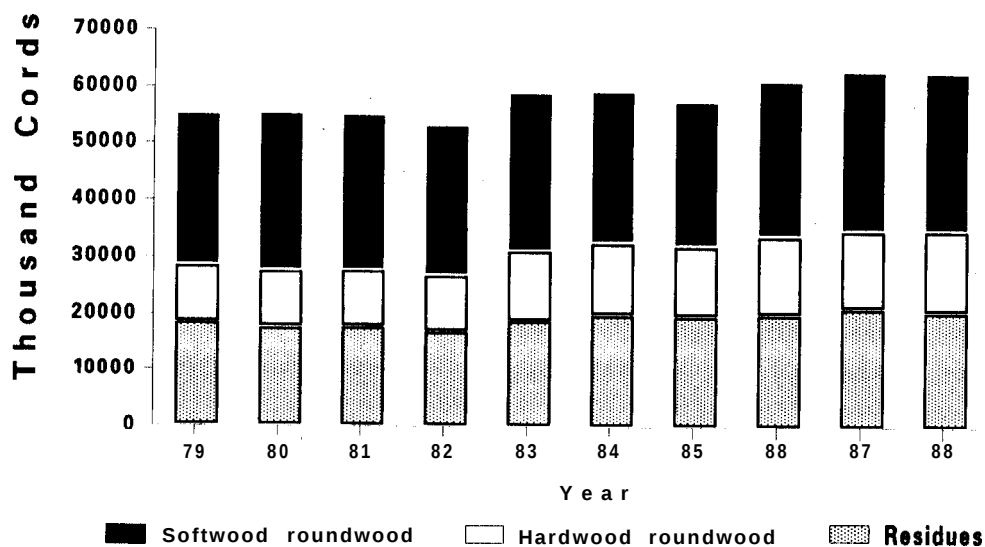


Figure S.—Proportion of softwood and hardwood to total pulpwood production in the South.

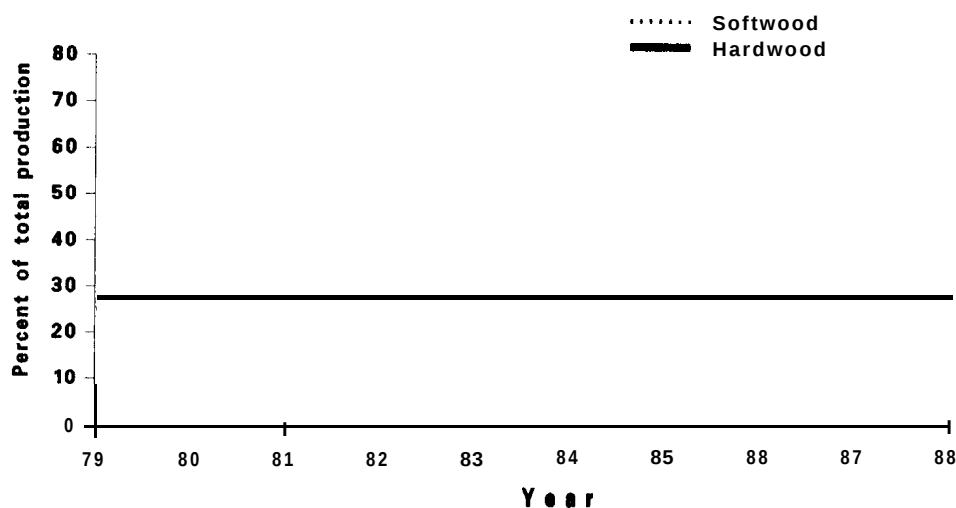


Figure 4.—1988 capacity of Southern pulpmills operating and drawing wood from the 12 Southern States. (Numerals are coded to table 18.)

Wood Residues

The amount of wood residues used for pulp manufacture fell nearly 3 percent to about 20.7 million cords in 1988 (table 3). Despite a 3-percent decrease, Georgia produced more residues than any other State—more than 3.2 million cords. With approximately 2.7 million cords, Arkansas was the second leading producer. Mississippi ranked third

with about 2.6 million cords of wood residues. Georgia led in softwood residue production with nearly 3.0 million cords, and Mississippi led in hardwood production with almost 0.9 million cords. Chips accounted for about 99 percent of the wood residues produced in the region (table 4) and about 75 percent of the residue chips were softwood.

Production of wood residues has increased about 12 percent since 1979 but has stabilized at about 20

million cords since 1984 (fig. 2). Production of hardwood residues increased by 31 percent, and softwood production increased by 7 percent since 1979. However, the proportion of softwood to total wood residue production has remained close to 75 percent throughout the period.

MILLS

Since 1979, the number of wood-using pulpmills in the South decreased from 115 to 106. One mill reopened in 1988 (fig. 4). Georgia and Alabama had 15 mills each. Four mills outside the 12-state region used pulpwood from the South in 1988 (table 19). Two mills were under construction in the South in 1988 (table 20).

Pulping capacity has increased about 2 percent since 1987 to a record 126,567 tons per day (table 18). Georgia led in pulping capacity by about 9 percent. Sulfate continued as the dominant pulping process with about 79 percent of total capacity. Recent mill improvement and modernization efforts have resulted in larger and more efficient pulpmills. Many mill improvements were geared to increase the amount of hardwood in the pulp furnish because hardwood is relatively inexpensive and plentiful. Because hardwood roundwood remains abundant and relatively inexpensive, and because technological advances continue to increase its use in pulping, use of this resource should increase.

Table L-Pulpwood production in the South during 1988, and change since 1987

State	Pulpwood	Change
	Thousand cords	Percent
Alabama	9,279.4	0
Arkansas	5,007.9	0
Florida	4,897.0	5
Georgia	9,880.3	-7
Louisiana	5,899.9	2
Mississippi	7,235.1	4
North Carolina	5,541.1	-4
Oklahoma	731.1	20
South Carolina	5141.1	-2
Tennessee	1,221.6	-10
Texas	4,056.8	1
Virginia	3,239.1	7
All States	62,130.4*	-1

*Column data may not add due to rounding.

Table 2.—Roundwood production in the South, by State and species group, 1988 and 1987

State	Change from 1987	1988			1987		
		All species	Softwood	Hardwood	All species	Softwood	Hardwood
	Percent	Thousand cords					
Alabama	-4	6,800.0	3,826.2	2,973.8	7,061.4	3,972.4	3,089.0
Arkansas	13	2,333.4	1,169.0	1,164.4	2,070.7	1,154.0	916.6
Florida	8	3,803.3	3,415.6	387.7	3,529.8	3,260.9	268.9
Georgia	-9	6,634.1	5,245.9	1,388.2	7,322.8	6,075.3	1,247.4
Louisiana	2	4,224.9	3,205.4	1,019.5	4,130.8	3,065.5	1,065.3
Mississippi	0	4,635.1	2,538.6	2,096.5	4,649.7	2,604.4	2,045.3
North Carolina	-1	3,859.3	2,258.6	1,600.8	3,889.9	2,290.8	1,599.0
Oklahoma	236	332.5	131.2	201.3	98.8	54.8	44.0
South Carolina	2	3,671.2	2,535.5	1,135.7	3,587.8	2,465.5	1,122.3
Tennessee	-6	960.2	573.9	386.3	1,020.1	615.1	405.0
Texas	9	2,122.4	1,718.0	404.4	1,947.9	1,518.1	429.8
Virginia	11	2,049.4	1,021.3	1,028.1	1,854.4	904.9	949.5
All States*	1	41,426.0	27,639.3	13,786.7	41,164.3	27,892.0	13,182.3

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

Table 3.—Southern output of wood residues for pulp manufacture, by State and species group, 1988 and 1987

State	Change from 1987	1988			1987		
		All species	Softwood	Hardwood	All species	Softwood	Hardwood
	<i>Percent</i>				<i>Thousand cords</i>		
Alabama	10	2,479.4	1,849.5	629.9	2,260.6	1,661.5	599.1
Arkansas	- 9	2,674.4	1,870.8	803.6	2,942.7	2,108.0	834.6
Florida	- 2	1,093.7	1,055.3	38.4	1,115.5	1,086.5	29.2
Georgia	- 3	3,246.1	2,972.5	273.6	3,336.4	3,066.3	270.0
Louisiana	1	1,674.9	1,247.2	427.7	1,656.9	1,257.8	399.1
Mississippi	13	2,600.0	1,733.0	867.0	2,305.6	1,546.5	759.0
North Carolina	- 10	1,681.8	1,130.2	551.6	1,876.7	1,356.9	519.8
Oklahoma	- 22	398.7	390.7	8.0	509.2	385.0	124.2
South Carolina	- 13	1,469.9	1,274.9	194.9	1,683.8	1,502.9	180.9
Tennessee	- 22	261.4	44.1	217.3	333.5	42.4	291.2
Texas	- 7	1,934.4	1,272.3	662.1	2,087.3	1,439.0	648.3
Virginia	2	1,189.7	741.9	447.9	1,162.0	737.7	424.2
All States ¹⁾	- 3	20,704.4	15,582.4	5,122.0	21,270.4	16,190.5	5,079.9

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

Table 4.-Southern output of wood residues for pulp manufacture, by State and type of residue, 1988

State	Chips				Other residues*		
	All types	All species	Softwood	Hardwood	All species	Softwood	Hardwood
	<i>Thousand cords</i>						
Alabama	2,479.4	2,419.1	1,798.7	620.3	60.4	50.8	9.6
Arkansas	2,674.4	2,628.8	1,825.2	803.6	45.6	45.6	
Florida	1,093.7	1,093.7	1,055.3	38.4	...	..	
Georgia	3,246.1	3,246.1	2,972.5	273.6	.	.	
Louisiana	1,674.9	1,674.9	1,247.2	427.7	...		
Mississippi	2,600.0	2,598.7	1,733.0	865.7	1.3		1.3
North Carolina	1,681.8	1,676.3	1,128.5	547.8	5.5	1.7	3.8
Oklahoma	398.7	360.2	353.2	8.0	38.5	38.5	
South Carolina	1,469.9	1,469.6	1,274.9	194.9			..
Tennessee	261.4	261.4	44.1	217.3	.	.	
Texas	1,934.4	1,921.2	1,259.1	662.1	13.2	13.2	...
Virginia	1,189.7	1,171.5	739.6	431.9	18.2	2.3	15.9
All States†	20,704.4	20,521.8	15,430.3	5,091.3	182.7	152.1	30.6

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

†Row and column data may not add due to rounding.

Table 5.—*Pulpwood production in the Midsouth and Southeast, 1988*

Region and source of wood	All species	Softwood	Hardwood
<i>Standard cords</i>			
Southeast"			
Roundwood	20,017,398	14,476,953	5,540,445
Residues	8681.192	7,174,828	1,506,364
Total	28,698,590	21,651,781	7,046,809
Midsouth†			
Roundwood	21,408,622	13,162,354	8,246,268
Residues	12,023.237	8,407,582	3,615,655
Total	33,431,859	21,569,936	11,861,933
Entire South			
Roundwood	41,426,020	27,639,307	13,786,713
Residues,	20,704,429	15,582,410	5,122,019
Total	62,130,449	43,221,717	18,908,732

"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, Alabama 1988*

County"	All species	Softwood	Hardwood
<i>Standard cords</i>			
Autauga	56,961	31,177	25,784
Baldwin	216,500	132,155	84,344
Barbour	92,895	65,555	27,340
Bibb	114,380	77,757	36,623
Blount	56,251	34,766	21,486
Bullock	65,266	45,695	19,570
Butler	174,249	85,649	88,601
Calhoun	50,151	47,295	2,856
Chambers	63,352	42,259	21,093
Cherokee	29,559	27,480	2,079
Chilton	95,303	48,229	47,074
Choctaw	308,808	104,162	204,646
Clarke	340,795	138,976	201,819
Clay	67,462	50,429	17,032
Cleburne	104,325	87,378	16,947
Coffee	60,488	32,659	27,829
Colbert	77,577	30,482	47,095
Conecuh	176,750	110,717	66,034
Coosa	92,296	61,610	30,686
Covington	92,376	64,784	27,592
Crenshaw	74,765	32,019	42,746
Cullman	87,062	54,025	33,037
Dale	35,970	23,904	12,066
Dallas	123,446	53,754	69,692
De Kalb	41,037	27,231	13,805
Elmore	52,042	36,081	15,961
Escambia	181,958	129,103	52,855
Etowah	26,341	22,134	4,207
Fayette	88,095	54,807	33,288
Franklin	118,251	69,047	49,204
Geneva	9,846	6,598	3,248
Greene	108,404	45,837	62,566
Hale	52,662	20,510	32,152
Henry	19,105	13,444	5,661
Houston	33,398	26,823	6,576

Table 6.—*Round pulpwood production, Alabama 1988—Continued*

County*	All species	Softwood	Hardwood
<i>----- Standard cords -----</i>			
Jackson	45,666	9,348	36,318
Jefferson	124,433	93,062	31,371
Lamar	87,570	35,630	51,940
Lauderdale	51,326	12,390	38,936
Lawrence	26,509	8,128	18,381
Lee	65,504	48,027	17,477
Limestone	7,068	4,109	2,959
Lowndes	103,984	49,999	53,985
Macon	60,292	35,241	25,051
Madison	10,644	2,090	8,554
Marengo	212,271	86,544	125,727
Marion	163,203	83,062	80,141
Marshall	18,632	5,590	13,042
Mobile	158,580	79,082	79,498
Monroe	320,282	200,481	119,801
Montgomery	58,369	35,208	23,161
Morgan	28,208	18,572	9,636
Perry	107,640	39,507	68,132
Pickens	153,737	72,830	80,906
Pike	93,592	61,912	31,680
Randolph	85,065	63,973	21,092
Russell	93,925	71,025	22,900
St. Clair	68,062	57,031	11,032
Shelby	119,029	84,509	34,520
Sumter	130,188	51,440	78,748
Talladega	91,886	72,317	19,570
Tallapoosa	110,676	77,384	33,292
Tuscaloosa	161,945	88,278	73,667
Walker	116,869	92,281	24,587
Washington	180,426	86,145	94,281
Wilcox	228,262	76,239	152,022
Winston	128,069	90,233	37,836
All counties	6,800,037	3,826,198	2,973,840

*Counties with no pulpwood production are omitted.

Table 7.—*Round pulpwood production, Arkansas 1988*

County*	All species	Softwood	Hardwood
<i>-- Standard cords ----</i>			
Arkansas	3,112	745	2,367
Ashley	140,308	46,670	93,638
Bradley	152,451	27,074	125,377
Calhoun	85,157	58,453	26,704
Chicot	4,817	71	4,746
Clark	60,185	31,598	28,587
Clay	53	0	53
Cleburne	10,247	7,963	2,285
Cleveland	52,653	25,324	27,329
Columbia	151,409	107,276	44,133
Conway	7,125	4,877	2,248
Cross	888	58	829
Dallas	112,331	71,192	41,138
Desha	14	0	14
Drew	134,357	27,968	106,389

Table 7.—*Round pulpwood production, Arkansas 1988—Continued*

County*	All species	Softwood	Hardwood
<i>Standard cords</i>			
Faulkner	2,290	120	2,170
Franklin	297	297	0
Fulton	1,095	288	807
Garland	3,979	2,156	1,823
Grant	113,240	90,436	22,804
Hempstead	43,566	25,624	17,941
Hot Spring	54,663	26,515	28,148
Howard	94,539	61,014	33,525
Independence	233	168	65
Jefferson	51,826	31,126	20,700
Johnson	4,296	4,218	78
Lafayette	56,581	31,668	24,913
Lincoln	4,686	3,797	889
Little River	72,306	33,600	38,706
Logan	5,489	5,132	357
Lonoke	4,536	237	4,299
Miller	93,226	50,895	42,331
Monroe	9	0	9
Montgomery	15,829	8,010	7,819
Nevada	73,477	46,362	27,115
Newton	151	151	0
Ouachita	88,407	61,101	27,306
Perry	14,233	6,228	8,005
Pike	16,043	8,431	7,611
Poinsett	10	10	0
Polk	17,460	7,780	9,680
Pope	16,876	14,745	2,131
Pulaski	10,142	2,203	7,939
Saline	31,189	22,521	8,668
Scott	10,809	5,507	5,302
Searcy	1,355	855	500
Sevier	54,032	17,223	36,809
Stone	4,600	981	3,619
Union	422,805	167,865	254,940
Van Buren	16,962	10,858	6,104
White	2,481	1,796	685
Yell	14,625	9,841	4,784
All counties	2,333,448	1,169,028	1,164,420

*Counties with no pulpwood production are omitted.

Table 8.—*Round pulpwood production, Florida 1988*

County*	All species	Softwood	Hardwood
<i>Standard cords</i>			
Alachua	58,906	54,161	4,745
Baker	98,086	96,264	1,822
Bay	270,928	231,641	39,287
Bradford	111,557	109,393	2,164
Brevard	12,676	12,676	0
Broward	393	0	393
Calhoun	114,514	103,293	11,221
Charlotte	4,457	4,457	0
Citrus	7,136	4,816	2,320
Clay	84,870	81,464	3,406
Columbia	130,542	125,514	5,028

Table 8.-Round pulpwood production, Florida 1988—Continued

County*	All species	Softwood	Hardwood
Standard cords			
De Soto	25,798	25,798	0
Dixie	119,711	87,231	32,480
Duval	76,191	7 4 , 5 4 3	1,648
Escambia	56,536	44,279	12,257
Flagler	79,405	76,109	3,296
Franklin	33,241	33,241	0
Gadsden	147,707	81,412	66,295
Gilchrist	70,562	68,072	2,490
Glades	4,621	4,621	0
Gulf	49,413	49,364	49
Hamilton	54,246	52,812	1,434
Hardee	12,166	12,166	0
Hendry	56,636	56,636	0
Hernando	4,670	3,510	1,160
Highlands	459	459	0
Hillsborough	11	11	0
Holmes	54,468	44,008	10,460
Indian River	3,510	3,510	0
Jackson	103,190	74,308	28,882
Jefferson	74,813	74,319	494
Lafayette	65,167	64,174	993
Lake	4,936	3,510	1,426
Lee	170	138	32
Leon	41,620	38,339	3,281
Levy	168,255	141,274	26,981
Liberty	70,788	67,666	3,122
Madison	69,678	57,034	12,644
Marion	107,871	105,524	2,347
Martin	116	65	51
Nassau	175,760	158,256	17,504
Okaloosa	32,416	29,520	2,896
Okeechobee	3,621	3,621	0
Orange	3,510	3,510	0
Osceola	3,510	3,510	0
Pasco	2,496	2,496	0
Polk	3,510	3,510	0
Putnam	67,679	61,879	5,800
St. Johns	121,988	110,893	11,095
St. Lucie	4,167	4,167	0
Santa Rosa	149,778	140,813	8,965
Sumter	10,648	9,488	1,160
Suwannee	84,634	84,452	182
Taylor	340,171	321,537	18,634
Union	41,905	40,570	1,335
Volusia	124,988	121,110	3,878
Wakulla	18,133	18,107	26
Walton	119,980	96,587	23,393
Washington	44,385	33,809	10,576
All counties	3,803,299	3,415,647	387,652

*Counties with no pulpwood production are omitted.

Table 9.-Round pulpwood production, Georgia 1988

County"	All species	Softwood	Hardwood
----- Standard cords -----			
Appling	114,703	101,389	13,314
Atkinson	57,397	55,517	1,880
Bacon	51,819	51,819	0
Baker	9,223	6,661	2,562
Baldwin	36,588	27,770	8,818
Banks	16,004	16,004	0
Barrow	20,797	18,558	2,239
Bartow	39,490	37,490	2,000
Ben Hill	55,610	33,493	22,117
Berrien	24,232	23,970	262
Bibb	19,254	11,690	7,564
Bleckley	17,730	14,146	3,584
Brantley	67,411	50,966	16,445
Brooks	11,044	9,408	1,636
Bryan	78,133	72,018	6,115
Bulloch	91,704	53,560	38,144
Burke	77,901	34,684	43,217
Butts	14,960	14,420	540
Calhoun	112,399	50,590	61,809
Camden	101,361	94,476	6,885
Candler	23,659	19,921	3,738
Carroll	35,531	31,273	4,258
Catoosa	11,639	9,639	2,000
Charlton	142,700	128,761	13,939
Chatham	58,748	50,137	8,611
Chattahoochee	31,301	21,894	9,407
Chattooga	59,925	46,876	13,049
Cherokee	25,321	25,321	0
Clarke	5,440	4,598	842
Clay	10,677	5,869	4,808
Clayton	6,539	6,539	0
Clinch	255,423	249,037	6,386
Cobb	7,264	7,264	0
Coffee	43,403	38,790	4,613
Colquitt	38,859	37,375	1,484
Columbia	9,681	4,276	5,405
Cook	8,185	8,185	0
Coweta	55,399	46,143	9,256
Crawford	53,297	53,297	0
Crisp	32,387	31,480	907
Dade	7,540	2,972	4,568
Dawson	32,202	32,202	0
Decatur	54,531	33,897	20,634
De Kalb	1,355	1,355	0
Dodge	87,856	54,997	32,859
Dooly	18,413	18,413	0
Dougherty	47,184	33,659	13,525
Douglas	3,325	3,105	220
Early	80,240	67,496	12,744
Echols	41,028	41,028	0
Effingham	127,358	76,058	51,300
Elbert	23,080	17,710	5,370
Emanuel	92,592	49,990	42,602
Evans	31,932	17,900	14,032
Fannin	7,002	6,466	536
Fayette	4,064	3,912	152
Floyd	95,621	72,079	23,542
Forsyth	2,972	2,972	0
Franklin	15,020	10,364	4,656
Fulton	5,497	5,426	71

Table 9.—*Round pulpwood production, Georgia 1988—Continued*

County*	All species	Softwood	Hardwood
	----- <i>Standard cords</i> -----		
Gilmer	14,003	14,003	0
Glascok	17,234	10,430	6,804
Glynn	143,758	114,388	29,370
Gordon	62,598	60,598	2,000
Grady	20,780	14,835	5,945
Greene	41,180	27,928	13,252
Gwinnett	36,212	33,972	2,240
Habersham	991	991	0
Hall	15,852	15,852	0
Hancock	74,734	53,304	21,430
Haralson	21,242	18,242	3,000
Harris	66,095	51,407	14,688
Hart	3,158	2,316	842
Heard	39,390	35,577	3,813
Henry	57,631	53,938	3,693
Houston	29,529	28,386	1,143
Irwin	9,640	9,140	500
Jackson	37,076	36,251	825
Jasper	16,621	16,548	73
Jeff Davis	73,282	61,904	11,378
Jefferson	48,017	31,521	16,496
Jenkins	32,292	17,582	14,710
Johnson	40,274	35,290	4,984
Jones	38,426	35,143	3,283
Lamar	5,889	5,889	0
Lanier	10,554	9,546	1,008
Laurens	85,014	41,048	44,026
Lee	20,783	18,110	2,673
Liberty	56,850	46,644	10,206
Lincoln	20,545	14,302	6,243
Long	150,283	87,018	63,265
Lowndes	30,006	28,402	1,604
Lumpkin	991	991	0
McDuffie	16,340	9,535	6,805
McIntosh	87,749	75,390	12,359
Macon	29,100	27,919	1,181
Madison	4,129	4,333	396
Marion	27,454	23,835	3,619
Meriwether	107,865	82,125	25,740
Miller	19,061	16,788	2,273
Mitchell	54,099	46,533	7,566
Monroe	23,960	23,960	0
Montgomery	23,186	17,408	5,778
Morgan	7,529	6,151	1,378
Murray	37,396	29,627	7,769
Muscogee	7,610	6,701	909
Newton	2,282	2,282	0
Oconee	3,989	1,449	2,540
Oglethorpe	54,902	37,032	17,870
Paulding	30,893	30,893	0
Peach	14,633	14,633	0
Pickens	15,094	15,094	0
Pierce	74,941	65,184	9,757
Pike	6,028	6,028	0
Polk	38,870	36,870	2,000
Pulaski	15,987	13,812	2,175
Putnam	18,017	17,498	519
Quitman	24,626	19,687	4,939

Table 9.—Round pulpwood production, Georgia 1988—Continued

County*	All species	Softwood	Hardwood
----- Standard cords -----			
Rabun	247	243	4
Randolph	30,209	20,805	9,404
Richmond	11,461	2,761	8,700
Rockdale	182	182	0
Schley	39,650	23,794	15,856
Screven	98,208	46,335	51,873
Seminole	11,639	10,900	739
Spalding	19,169	19,169	0
Stephens	1,328	991	337
Stewart	74,201	58,567	15,634
Sumter	59,816	30,673	29,143
Talbot	40,970	27,193	13,777
Taliaferro	32,565	19,051	13,514
Tattnall	37,406	33,524	3,882
Taylor	32,800	31,061	1,739
Telfair	48,760	44,396	4,364
Terrell	44,154	27,549	16,605
Thomas	48,602	45,488	3,114
Tift	12,276	12,268	8
Toombs	11,373	9,362	2,011
Towns	3,337	2,623	714
Treutlen	24,272	20,269	4,003
Troup	72,372	57,500	14,872
Turner	30,387	30,387	0
Twiggs	55,067	51,389	3,678
Union	35,200	31,134	4,066
Upson	22,611	22,611	0
Walker	12,027	6,104	5,923
Walton	2,553	617	1,936
Ware	160,085	153,774	6,311
Warren	62,336	35,745	26,591
Washington	52,396	22,228	30,168
Wayne	265,393	243,636	21,757
Webster	14,038	10,320	3,718
Wheeler	34,522	19,946	14,576
Whitfield	54,366	41,876	12,490
Wilcox	67,325	51,546	15,779
Wilkes	136,698	94,800	41,898
Wilkinson	49,602	20,352	29,250
Worth	45,266	45,172	94
All counties	6,634,149	5,245,909	1,388,240

*Counties with no pulpwood production are omitted.

Table 10.—Round pulpwood production, Louisiana 1988

Parish*	All species	Softwood	Hardwood
--- Standard cords ---			
Acadia	4,584	4,421	163
Allen	115,858	112,570	3,289
Ascension	1,853	369	1,484
Avoyelles	14,307	4,337	9,970
Beauregard	350,286	348,464	1,822
Bienville	260,020	203,545	56,475
Bossier	100,856	66,458	34,397
Caddo	87,726	52,245	35,481
Calcasieu	45,042	44,456	586
Caldwell	53,014	34,017	18,996
Cameron	9	0	9

Table 10.—*Round pulpwood production, Louisiana 1988—*
Continued

Parish*	All species	Softwood	Hardwood
	<i>Standard cords</i>		
Catahoula	33,454	19,326	14,128
Claiborne	143,337	110,795	32,542
Concordia	18,076	0	18,076
De Soto	191,065	125,369	65,696
East Baton Rouge	2,587	786	1,801
East Carroll	8,043	0	8,043
East Feliciana	10,364	4,543	5,821
Evangeline	27,488	26,234	1,254
Franklin	3,523	1,674	1,850
Grant	67,868	59,242	8,626
Iberia	9	0	9
Iberville	3,194	10	3,184
Jackson	99,201	82,343	16,858
Jefferson	6	2	4
Jefferson Davis	5,917	5,917	0
La Salle	189,452	172,072	17,379
Lincoln	179,137	128,716	50,421
Livingston	30,089	23,035	7,054
Madison	18,405	10	18,395
Morehouse	54,738	23,636	31,102
Natchitoches	221,402	143,924	77,478
Ouachita	126,552	59,333	67,219
Pointe Coupee	988	0	988
Rapides	180,651	169,522	11,129
Red River	65,221	40,686	24,535
Richland	5,682	29	5,652
Sabine	255,693	191,244	64,449
St. Charles	72	0	72
St. Helena	42,946	27,845	15,101
St. James	91	0	91
St. Landry	762	491	271
St. Martin	920	0	920
St. Tammany	75,632	59,195	16,437
Tangipahoa	45,620	34,866	10,754
Tensas	31,115	88	31,026
Union	245,407	173,146	72,261
Vernon	305,379	275,596	29,783
Washington	64,695	52,827	11,868
Webster	100,025	76,910	23,114
West Baton Rouge	422	44	378
West Carroll	90	0	90
West Feliciana	11,708	4,374	7,335
Winn	324,368	240,732	83,636
All parishes	4,224,948	3,205,442	1,019,506

*Parishes with no pulpwood production are omitted.

Table 11.-Round *pulpwood production, Mississippi 1988*

County*	All species	Softwood	Hardwood
..... <i>Standard cords</i>			
Adams	37,219	4,652	32,568
Alcorn	36,265	21,730	14,535
Amite	82,081	61,715	20,367
Attala	98,991	57,688	41,303
Benton	23,626	19,760	3,866
Bolivar	8	0	8
Calhoun	19,412	11,794	7,618
Carroll	33,063	13,858	19,204
Chickasaw	24,763	23,494	1,269
Choctaw	45,413	36,712	8,701
Claiborne	47,924	10,219	37,705
Clarke	129,387	60,605	68,782
Clay	12,873	9,012	3,860
Coahoma	5,205	159	5,047
Copiah	156,151	67,454	88,697
Covington	103,673	43,334	60,338
De Soto	11	0	11
Forrest	135,253	89,856	45,397
Franklin	71,380	28,704	42,676
George	53,660	32,009	21,651
Greene	181,087	108,905	72,182
Grenada	38,016	10,692	27,325
Hancock	56,801	46,011	10,790
Harrison	37,422	34,907	2,515
Hinds	48,725	21,623	27,102
Holmes	103,465	36,669	66,796
Humphreys	73	11	63
Issaquena	20,664	555	20,110
Itawamba	19,700	10,190	9,510
Jackson	70,775	43,910	26,865
Jasper	62,534	25,802	36,731
Jefferson	104,006	25,587	78,420
Jefferson Davis	62,539	37,177	25,362
Jones	150,171	79,479	70,692
Kemper	87,151	30,885	56,266
Lafayette	44,402	41,845	2,557
Lamar	64,243	56,330	7,913
Lauderdale	180,324	64,095	116,229
Lawrence	79,931	54,628	25,303
Leake	84,115	52,797	31,318
Lee	15,770	11,274	4,496
Leflore	195	10	185
Lincoln	82,746	51,607	31,139
Lowndes	19,574	4,025	15,548
Madison	53,187	22,886	30,301
Marion	62,701	41,007	21,694
Marshall	26,351	25,155	1,195
Monroe	13,772	8,720	5,051
Montgomery	46,459	18,238	28,221
Neshoba	51,227	21,697	29,530
Newton	92,305	32,318	59,987
Noxubee	65,193	17,637	47,556
Oktibbeha	18,135	14,107	4,028
Panola	7,729	2,881	4,848
Pearl River	124,355	106,830	17,525
Perry	102,933	70,198	32,735
Pike	83,708	60,068	23,640
Pontotoc	9,890	8,467	1,423
Prentiss	59,251	40,068	19,183

Table 11.-Round *pulpwood production, Mississippi 1988—*
Continued

County*	All species	Softwood	Hardwood
	<i>Standard cords</i>		
Quitman	1,192	381	811
Rankin	143,807	76,645	67,162
Scott	103,835	79,553	24,282
Sharkey	5,421	143	5,278
Simpson	82,344	40,238	42,107
Smith	114,026	56,174	57,852
Stone	49,584	33,569	16,015
Sunflower	12	12	0
Tallahatchie	5,064	1,041	4,023
Tate	406	406	0
Tippah	60,497	43,340	17,157
Tishomingo	92,853	72,354	20,499
Tunica	20	20	0
Union	26,136	23,594	2,542
Walthall	37,556	28,392	9,164
Warren	32,789	1,668	31,120
Washington	17,643	0	17,643
Wayne	174,608	76,574	98,035
Webster	13,816	13,640	176
Wilkinson	57,011	19,681	37,330
Winston	33,249	23,333	9,916
Yalobusha	16,832	9,101	7,731
Yazoo	18,424	6,703	11,722
All counties	4,635,110	2,538,608	2,096,502

*Counties with no pulpwood production are omitted.

Table 12.-Round *pulpwood production, North Carolina 1988*

County*	All species	Softwood	Hardwood
	<i>Standard cords</i>		
Alamance	3,930	1,491	2,439
Alexander	5,741	5,193	548
Alleghany	567	4	563
Anson	83,872	57,389	26,483
Ashe	9,031	1,269	7,762
Beaufort	170,063	133,672	36,391
Bertie	152,548	51,554	100,984
Bladen	133,677	67,640	66,037
Brunswick	81,024	60,037	20,987
Buncombe	4,819	214	4,605
Burke	133,860	59,637	54,223
Cabarrus	2,400	2,400	0
Caldwell	7,660	2,167	5,493
Camden	4,913	1,816	3,097
Carteret	50,773	40,366	10,407
Caswell	9,829	529	9,300
Catawba	2,596	2,544	52
Chatham	75,290	49,632	25,658
Cherokee	37,841	22,564	15,277
Chowan	11,077	3,349	7,728
Clay	5,018	4,125	893
Cleveland	24,898	23,359	1,539
Columbus	222,502	136,740	85,762
Craven	207,533	134,588	72,945
Cumberland	58,310	31,719	26,591
Currituck	14,274	4,507	9,767

Table 12.—*Round pulpwood production, North Carolina 1988—*
Continued

County"	All species	Softwood	Hardwood
----- Standard cords -----			
Dare	1,121	685	436
Davidson	5,525	4,992	533
Davie	4,240	2,830	1,410
Duplin	144,937	104,931	40,006
Durham	417	417	0
Edgecombe	35,415	15,642	19,773
Forsyth	1,606	440	1,166
Franklin	29,108	13,199	15,909
Gaston	4,900	4,800	100
Gates	52,239	28,884	23,355
Graham	1,045	503	542
Granville	35,075	21,167	13,908
Greene	41,960	29,460	12,500
Guilford	10,323	3,097	7,226
Halifax	152,093	66,973	85,120
Harnett	22,887	15,923	6,964
Haywood	110,203	38,433	71,770
Henderson	5,785	1,272	4,513
Hertford	87,919	30,936	56,983
Hoke	8,964	5,361	3,603
Hyde	50,715	43,958	6,757
Iredell	10,044	9,075	969
Jackson	1,567	149	1,418
Johnston	17,324	6,209	11,115
Jones	70,457	51,278	19,179
Lee	16,684	9,318	7,366
Lenoir	47,719	35,755	11,964
Lincoln	2,400	2,400	0
McDowell	16,681	5,829	10,852
Macon	23	0	23
Madison	4,724	113	4,611
Martin	76,870	41,780	35,090
Mecklenburg	6,677	6,568	109
Mitchell	2,048	0	2,048
Montgomery	32,690	18,278	14,412
Moore	66,656	41,204	25,452
Nash	27,400	14,912	12,488
New Hanover	49,999	37,975	12,024
Northampton	50,338	10,154	40,184
Onslow	82,735	71,485	11,250
Orange	4,022	605	3,417
Pamlico	102,916	76,569	26,347
Pasquotank	17,585	4,968	12,617
Pender	73,245	41,515	31,730
Perquimans	27,449	7,443	20,006
Person	11,193	1,900	9,293
Pitt	173,919	96,052	77,867
Polk	16,891	11,561	5,330
Randolph	6,430	1,111	5,319
Richmond	38,278	24,771	13,507
Robeson	101,713	64,939	36,774
Rockingham	9,381	10	9,371
Rowan	2,535	2,447	88
Rutherford	49,088	31,792	17,296
Sampson	82,971	42,723	40,248
Scotland	24,690	20,339	4,351
Stanly	7,869	3,733	4,136
Stokes	6,108	424	5,684

Table 12.—*Round pulpwood production, North Carolina 1988—Continued*

County"	All species	Softwood	Hardwood
	<i>Standard cords</i>		
Surry	6,450	2,703	3,747
Swain	1,183	1,139	44
Transylvania	6,526	1,182	5,344
Tyrrell	18,209	12,232	5,977
Union	7,183	6,574	609
Vance	15,983	11,472	4,511
Wake	26,470	14,502	11,968
Warren	66,525	48,835	17,690
Washington	18,936	8,311	10,625
Watauga	276	0	276
Wayne	40,243	21,301	18,942
Wilkes	108	7	101
Wilson	10,137	2,289	7,848
Yadkin	1,225	218	1,007
Yancey	31	0	31
All counties	3,859,327	2,258,567	1,600,760

"Counties with no pulpwood production are omitted

Table 13.—*Round pulpwood production, Oklahoma 1988*

County*	All species	Softwood	Hardwood
	<i>Standard cords</i>		
Choctaw	9,423	4,429	4,994
Latimer	62	51	11
Le Flore	3,232	1,710	1,521
McCurtain	234,493	60,210	174,283
Pushmataha	85,253	64,785	20,468
All counties	332,463	131,186	201,278

*Counties with no pulpwood production are omitted.

Table 14.—*Round pulpwood production, South Carolina 1988*

County*	All species	Softwood	Hardwood
	<i>Standard cords</i>		
Abbeville	49,933	28,492	21,441
Aiken	71,758	52,446	19,312
Allendale	50,335	38,568	11,767
Anderson	16,955	6,855	10,100
Bamberg	43,988	24,676	19,312
Barnwell	42,358	25,165	17,193
Beaufort	43,414	35,184	8,230
Berkeley	130,451	103,137	27,314
Calhoun	19,133	6,647	12,486
Charleston	62,758	50,858	11,900

Table 14.—Round pulpwood production, South Carolina 1988—
Continued

County*	All species	Softwood	Hardwood
	***** Standard cords *****		
Cherokee	53,449	51,361	2,088
Chester	110,919	76,529	34,390
Chesterfield	91,654	55,956	35,698
Clarendon	45,187	28,002	17,185
Colleton	106,204	65,799	40,405
Darlington	54,987	21,103	33,884
Dillon	26,934	20,261	6,673
Dorchester	119,388	87,134	32,254
Edgefield	122,058	78,154	43,904
Fairfield	141,598	119,804	21,794
Florence	78,054	54,861	23,193
Georgetown	223,290	181,798	41,492
Greenville	37,499	11,921	25,578
Greenwood	58,633	22,489	36,144
Hampton	148,216	101,863	46,353
Horry	146,317	98,966	47,351
Jasper	98,377	59,785	38,592
Kershaw	115,585	96,522	19,063
Lancaster	96,141	67,833	28,308
Laurens	87,523	69,132	18,391
Lee	25,628	15,329	10,299
Lexington	24,045	10,704	13,341
McCormick	44,142	24,164	19,978
Marion	60,521	29,062	31,459
Marlboro	70,771	38,703	32,068
Newberry	134,636	105,977	28,659
Oconee	24,614	19,561	5,053
Orangeburg	80,418	33,543	46,875
Pickens	20,769	5,371	15,398
Richland	63,761	38,693	25,068
Saluda	52,482	37,585	14,897
Spartanburg	165,167	138,866	26,301
Sumter	113,239	55,576	57,663
Union	74,506	63,203	11,303
Williamsburg	157,210	115,066	42,144
York	66,215	62,818	3,397
All counties	3,671,220	2,535,522	1,135,698

*Counties with no pulpwood production are omitted.

Table 15.—Round pulpwood production, Tennessee 1988

County*	All species	Softwood	Hardwood
	***** Standard cords *****		
Anderson	9,159	9,159	0
Benton	26,663	10,812	15,851
Bledsoe	22,929	13,520	9,409
Blount	7,989	7,989	0
Bradley	86,152	86,152	0
Carroll	6,658	3,102	3,556
Carter	2,556	0	2,556
Chester	2,132	1,193	939
Claiborne	2,104	51	2,052

Table 15.-Round pulpwood production, Tennessee 1988—
Continued

County ^a	All species	Softwood	Hardwood
	----- Standard cords -----		
Coke	10,983	5,298	5,685
Coffee	2,772	0	2,772
Cumberland	23,729	23,729	0
Decatur	4,412	1,998	2,414
Fayette	2,695	2,695	0
Fentress	10,663	10,663	0
Franklin	3,116	0	3,116
Giles	17,034	9,817	7,217
Grainger	2,927	121	2,806
Greene	1,391	750	641
Grundy	15,005	6,088	8,917
Hamilton	28,331	22,817	5,514
Hancock	5,472	724	4,748
Hardeman	15,581	14,053	1,528
Hardin	34,167	28,400	5,767
Hawkins	9,999	0	9,999
Haywood	123	123	0
Henderson	2,892	2,509	383
Henry	25,441	6,259	19,182
Hickman	33,121	283	32,838
Humphreys	42,910	11	42,898
Jefferson	151	151	0
Johnson	4,170	0	4,170
Knox	13,838	13,838	0
Lawrence	24,108	8,766	15,343
Lewis	4,592	259	4,333
Lincoln	2,161	0	2,161
Loudon	12,545	12,545	0
McMinn	39,490	39,490	0
McNairy	26,370	16,738	9,632
Madison	5,026	4,222	804
Marion	14,349	7,748	6,601
Maury	58	0	58
Meigs	21,001	16,621	4,380
Monroe	20,710	20,671	39
Montgomery	6,572	6,572	0
Morgan	10,391	10,391	0
Overton	9,869	9,869	0
Perry	18,004	17,186	819
Polk	14,926	14,926	0
Putnam	2,439	2,439	0
Rhea	38,030	36,332	1,697
Roane	13,038	13,038	0
Scott	10,600	10,600	0
Sequatchie	21,667	11,068	10,599
Sevier	3,439	3,439	0
Stewart	34,202	454	33,748
Sullivan	6,173	0	6,173
Unicoi	3,421	0	3,421
Van Buren	1,107	1,107	0
Washington	882	0	882
Wayne	114,803	24,117	90,686
Weakley	199	199	0
White	2,767	2,767	0
All counties	960,205	573,872	386,332

^aCounties with no pulpwood production are omitted

Table 16.—*Round pulpwood production, Texas 1988*

County*	All species	Softwood	Hardwood
<i>----- Standard cords -----</i>			
Anderson	3,383	2,419	964
Angelina	200,941	200,941	0
Bowie	81,491	53,396	28,094
Camp	4,182	2,498	2,286
Cass	240,723	146,100	94,622
Chambers	19,309	19,309	0
Cherokee	54,212	49,088	5,124
Colorado	9,885	9,885	0
Franklin	59	59	0
Gregg	477	386	92
Hardin	136,400	119,952	16,448
Harris	9,250	9,229	22
Harrison	111,717	64,550	47,167
Henderson	747	450	297
Houston	35,047	35,009	37
Jasper	182,622	144,189	38,433
Jefferson	2,564	2,347	217
Leon	184	184	0
Liberty	12,247	66,917	5,330
Llano	2,933	1,314	1,619
Marion	60,912	37,203	23,709
Montgomery	83,099	80,558	2,541
Morris	51,011	29,888	21,123
Nacogdoches	38,718	36,180	2,538
Newton	125,304	97,592	27,713
Orange	18,045	9,693	8,352
Panola	71,613	57,824	13,789
Polk	101,462	101,462	0
Red River	1,126	622	505
Rusk	37,776	29,641	8,135
Sabine	13,532	3,879	9,653
San Augustine	8,497	4,547	3,950
San Jacinto	56,026	56,026	0
Shelby	78,009	58,688	19,321
Smith	24,364	17,456	6,909
Titus	1,774	951	823
Trinity	54,048	54,048	0
Tyler	60,437	58,948	1,489
Upshur	33,563	20,474	13,089
Walker	32,590	32,590	0
Waller	1,529	1,529	0
*All counties	2122,412	1,718,022	404,390

*Counties with no pulpwood production are omitted.

Table 17.—*Round pulpwood production, Virginia 1988*

County*	All species	Softwood	Hardwood
<i>Standard cords</i>			
Accomack	5,827	5,827	0
Albemarle	31,739	13,071	18,668
Alleghany	15,672	3,121	12,551
Amelia	32,356	19,506	12,850
Amherst	31,145	6,519	24,626
Appomattox	53,349	25,105	28,244
Arlington	331	220	111
Augusta	8,875	2,576	6,299

Table 17.—*Round pulpwood production, Virginia 1988—*
Continued

County*	All species	Softwood	Hardwood
----- Standard cords -----			
Bath	26,750	4,226	22,524
Bedford	37,902	5,834	32,068
Bland	222	0	222
Botetourt	20,748	4,581	16,167
Brunswick	85,758	53,176	32,582
Buchanan	234	0	234
Buckingham	127,934	84,618	43,316
Campbell	72,672	38,461	34,211
Caroline	30,202	23,463	6,739
Carroll	1,214	87	1,127
Charles City	18,399	12,831	5,568
Charlotte	92,951	61,829	31,122
Chesapeake	8,909	1,772	7,137
Chesterfield	18,148	16,043	2,105
Clarke	14	10	4
Craig	11,558	1,459	10,099
Culpeper	22,740	13,412	9,328
Cumberland	48,757	21,494	27,263
Dickenson	1,706	0	1,706
Dinwiddie	42,245	23,538	18,707
Essex	18,679	11,893	6,786
Fairfax	1,333	1,328	5
Fauquier	9,817	6,776	3,041
Floyd	23	9	14
Fluvanna	22,681	13,710	8,971
Franklin	48,253	17,577	30,676
Frederick	3,629	3,003	626
Giles	410	0	410
Gloucester	33,620	22,624	10,996
Goochland	23,280	14,317	8,963
Greene	7,151	0	7,151
Greensville	26,653	9,198	17,455
Halifax	63,787	41,725	22,062
Hanover	25,711	19,535	6,176
Henrico	7,437	4,680	2,757
Henry	523	0	523
Highland	5,277	449	4,828
Isle of Wight	20,626	1,916	18,710
James City	4,087	1,636	2,451
King and Queen	50,731	33,594	17,137
King George	5,071	3,568	1,503
King William	18,645	15,933	2,712
Lancaster	11,765	7,803	3,962
Lee	12,060	0	12,060
Louisa	30,307	24,593	5,714
Lunenburg	37,837	19,364	18,473
Madison	353	170	183
Mathews	2,296	1,657	639
Mecklenburg	50,083	22,484	27,599
Middlesex	3,720	1,702	2,018
Montgomery	19	0	19
Nelson	36,745	11,669	25,076
New Kent	35,119	21,401	13,718
Newport News	1,388	505	883
Northampton	769	769	0
Northumberland	3,238	1,575	1,663
Nottoway	26,094	12,355	13,739
Orange	5,832	5,555	277

Table 17.-Round pulpwood production, Virginia 1988—
Continued

County*	All species	Softwood	Hardwood
<i>Standard cords -----*****</i>			
Page	16	16	0
Patrick	124	0	124
Pittsylvania	97,502	39,357	58,145
Powhatan	25,790	16,145	9,645
Prince Edward	34,427	24,260	10,167
Prince George	38,524	27,292	11,232
Prince William	2,276	1,905	371
Rappahannock	4,437	2,915	1,522
Richmond	22,031	16,274	5,757,
Roanoke	576	91	485
Rockbridge	24,388	3,457	20,931
Rockingham	636	399	237
Russell	8,684	0	8,684
Scott	24,492	0	24,492
Shenandoah	1,386	805	581
Smyth	2,544	0	2,544
Southampton	86,369	21,395	64,974
Spotsylvania	28,878	20,987	7,891
Stafford	6,947	2,626	4,321
Suffolk	25,253	10,493	14,760
Surry	20,542	10,969	9,573
Sussex	43,434	17,757	25,677
Tazewell	1,859	0	1,859
Virginia Beach	4,394	1,019	3,375
Warren	9,297	1,970	7,327
Washington	3,618	0	3,618
Westmoreland	6,793	2,730	4,063
Wise	17,573	0	17,573
Wythe	1,270	35	1,235
York	1,932	557	1,375
All counties	2,049,398	1,021,306	1,028,092

*Counties with no pulpwood production are omitted.

Table 18.—Southern pulpmills, by process and capacity, 1988

			Pulping capacity, 24 hours†				
Location	Map* code	Company	All processes	Sulfate	Groundwood and other mechanical	Semi- chemical	Soda and sulfite
			Tons				
ALABAMA							
Claiborne	(1)	Alabama River Pulp Company	1,143	1,143			
Jackson	(2)	Boise Cascade Paper Group	600	600	.	.	.
Courtland	(3)	Champion International Corporation	1,460	1,460			
Brewton	(4)	Container Corporation of America	1,200	1,200	...	....	....
Mobile	(5)	GAF Corporation	50	....	50	....	....
Demopolis	(6)	Gulf States Paper Corporation	700	700			
Selma	(7)	International Paper Company	1,285	1,285	....		
Mobile	(8)	International Paper Company	1,500	1,200	300	....	....
Naheola	(9)	James River Corporation	1,250	1,250	....		
Coosa Pines	(10)	Kimberly-Clark Corporation	2,040	1,100	940	....	....
Pine Hill	(11)	McMillan Bloedel, Inc.	1,684	1,100	.	584	
Mahrt	(12)	Mead Coated-board	1,100	1,100	.	.	.
Stevenson	(13)	Mead Paperboard	900	....		900	
Mobile	(14)	Scott Paper Company	1,200	1,500		.	.
Montgomery	(15)	Union Camp Corporation	2,300	2,300			
Total			18,712	15,938	1,290	1,484	
ARKANSAS							
Crosset	(16)	Georgia Pacific Corporation	1,500	1,500	.		
Morrilton	(17)	Green Bay Packaging, Inc.	800	800			.
Camden	(18)	International Paper Company	750	750			.
Pine Bluff	(19)	International Paper Company	1,700	1,300	400		
Pine Bluff	(20)	Gaylord Container Corporation	380	380		.	
Ashdown	(21)	Nekoosa Papers, Inc.	1,355	1,355	.	.	
McGehee	(22)	Potlatch Corporation	450	450			
Little Rock	(23)	Superwood Corporation	140	.	140	.	
Total			7,075	6,535	540	.	
FLORIDA							
Foley	(24)	The Buckeye Cellulose Corporation	1,100	1,100		.	.
Cantomt	(25)	Champion International Corporation	1,560	1,560			
Palatka	(26)	Georgia Pacific Corporation	1,350	1,350	.		.
Fernandina Beach	(27)	I.T.T. Rayonier, Inc.	450	....			450
Fernandina Beach	(28)	Jefferson Smurfit Corporation	2,100	2,100			
Jacksonville	(29)	Jefferson Smurfit Corporation	760	760	.		
Port St. Joe	(30)	St. Joe Paper Company	1,700	1,700			
Jacksonville	(31)	Stone Container Corp., Seminole Kraft	1,400	1,400			
Panama City	(32)	Stone Container Corporation	1,525	1,525			.
Total			11,945	11,495		.	450
GEORGIA							
Macon	(33)	Armstrong World Industries	927	.	927		
Augusta	(34)	Augusta Newsprint Company	1,200		1,200		
Brunswick	(35)	Brunswick Pulp and Paper	1,910	1,910			.
Oglethorpe	(36)	The Buckeye Cellulose Corporation	860	860		.	
Augusta	(37)	Federal Paper Board Company	1,000	600	400		
Macon	(38)	Macon Kraft Company	1,000	1,000	.		.
Rome	(39)	Inland-Rome, Inc.	2,100	2,100	.	.	
St. Marys	(40)	Gilman Paper Co.	1,200	1,200		....	.
Cedar Springs	(41)	Great Southern Paper Company	3,100	2,500	.	600	
Riceboro	(42)	Interstate Paper Corporation	600	600		.	
Jesup	(43)	I.T.T. Rayonier, Inc.	1,400	1,400	.	.	.
Valdosta	(44)	Nekoosa Packaging Corporation	1,075	1,075			.
Dublin	(45)	Southeast Paper Mfg. Company	50	....	50	....	
Port Wentworth	(46)	Stone Container	875		.	....	....
Savannah	(47)	Union Camp Corporation	3,000	3,000		.	
Total			20,297	17,120	2,577	600	.

Table 18.—Southern pulp mills, by process and capacity, 1988—Continued

			Pulping capacity, 24 hours†				
Location	Map" code	Company	All processes	Sulfate	Groundwood and other mechanical	Semi-chemical	Soda and sulfite
			Tons				
LOUISIANA							
DeRidder	(48)	Boise Cascade Corporation	2,250	1,305	945		
St. Francisville	(49)	Crown Zellerbach Corporation	550	550			
St. Francisville	(50)	Crown Zellerbach Corporation	250		250	...	
Bogalusa	(51)	Gaylord Container Corporation	1,600	1,300		300	
Port Hudson	(52)	Georgia-Pacific Corporation	1,850	1,850			
Bastrop	(53)	International Paper Company	1,100	1,100	.		
Pineville	(54)	International Paper Company	985	985		...	
Mansfield	(55)	International Paper Company	1,900	1,400		500	
West Monroe	(56)	Manville Forest Products Corporation	2,000	1,600		400	
Hodge	(57)	Stone Container Corporation	1,300	1,300			
Campti	(58)	Willamette Industries, Inc.	800	800			
Total			14,585	12,190	1,195	1,200	
MISSISSIPPI							
Moss Point	(59)	International Paper Company	700	700			
Natchez	(60)	International Paper Company	1,100	1,100	.		
Vicksburg	(61)	International Paper Company	1,180	1,180		.	.
Monticello	(62)	Georgia Pacific Corporation	2,600	2,600		.	
New Augusta	(63)	Leaf River Forest Products	1,050	1,050			
Laurel	(64)	Masonite Corporation	3,380		3,380		
Columbus	(65)	Weyerhaeuser Company	220		.	220	
Total			10,230	6,630	3,380	220	
NORTH CAROLINA							
Roaring River	(66)	Abitibi-Price Corporation	500		500	....	
Goldsboro	(67)	Celotex Corporation	30	....	30		
Canton	(68)	Champion International Corporation	1,600	1,600			
Roanoke Rapids	(69)	Champion International Corporation	1,300	1,300	.		
Riegelwood	(70)	Federal Paper Board Company, Inc.	2,200	2,200	....		
Conway	(71)	Georgia-Pacific Corporation	400	....	400		
New Bern	(72)	Weyerhaeuser Company	725	725	....		
Plymouth	(73)	Weyerhaeuser Company	1,550	1,300		250.	
Total			8,305	7,125	930	250	
OKLAHOMA							
Pryor	(74)	Georgia Pacific Corporation	200		200		
Broken Bow	(75)	Weyerhaeuser Company	920	.	920	....	
Valliant	(76)	Weyerhaeuser Company	2,150	1,650		500	....
Total			3,270	1,650	1,120	500	
SOUTH CAROLINA							
Catawba	(77)	Bowaters Carolina Corporation	1,335	1,125	210		
Catawba	(78)	Catawba Newsprint Company	680	....	680	...	
Georgetown	(79)	International Paper Company	1,713	1,613	...	100	
Marion	(80)	Masonite Corporation	450		450	...	
Hartsville	(81)	Sonoco Products Company	300	....	.	300	
Florence	(82)	Stone Container Corporation	1,400	1,400	.		
Eastover	(83)	Union Camp Corporation	700	700			
Charleston	(84)	Westvaco Corporation	2,435	2,435			
Total			9,013	7,273	1,340	400	...
TENNESSEE							
Calhoun	(85)	Bowaters Southern Paper Corporation	2,490	690	1,800	...	
New Johnsonville	(86)	Inland Container Corporation	400	....	.	400	...
Kingsport	(87)	Mead Paper	325	.	...		325
Knoxville	(88)	Tamko Asphalt Products, Inc.	195	....	195		
Counce	(89)	Tennessee River Pulp and Paper Company	1,700	1,700		....	
Harriman	(90)	Clinch River Paper Company	190		...	190	.
Total			5,300	2,390	1,995	590	325

Table 18.—*Southern pulpmills, by process and capacity, 1988—Continued*

			Pulping capacity, 24 hours†				
Location	Map* code	Company	All processes	Sulfate	Groundwood and other mechanical	Semi- chemical	Soda and sulfite
			----- Tons -----				
TEXAS							
Houston	(91)	Champion International Corporation	1,850	650	1,200		
Lufkin	(92)	Champion International Corporation	1,200	400	800		
Pasadena	(93)	Simpson Pasadena Paper Company	800	800			
Orange	(94)	Inland-Orange, Inc.	1,200	1,200			
Texarkana	(95)	International Paper Company	1,200	1,200	.		
Diboll	(96)	Temple-EasTex, Inc.	1,430		1,430		
Evadale	(97)	Temple-EasTex, Inc.	1,500	1,500	.		
Total			9,180	5,750	3,430		
VIRGINIA							
Ashland	(98)	Bear Island Paper Company	620	.	620	.	
West Point	(99)	Chesapeake Corporation	1,330	1,330	.		
Jarratt	(100)	Georgia Pacific Corporation	450	.	450	....	
Big Island	(101)	Nekoosa Packaging Corporation	675			675	
Hopewell	(102)	Stone Container Corporation	1,000	1,000		.	
Franklin	(103)	Union Camp Corporation	1,950	1,950		...	
Riverville	(104)	Virginia Fiber Corporation	600	.		600	
Covington	(105)	Westvaco Corporation	1,400	1,200	....	200	
Danville	(106)	Wood Fiber Industries	330		330	.	
Total			8,355	5,480	1,400	1,475	.
Total South			126,267	99,576	19,197	6,719	775

*Corresponds to numbers at locations on mill capacity map, figure 2.

†Southern Pulp and Paper Directory, Vol. 51, No. 11 (October, 1988); and other sources.

Table 19.—*Other mills using southern pulpwood in 1988, by process and capacity*

		Pulping capacity, 24 hours†				
		All processes	Sulfate	Groundwood and other mechanical	Semi- chemical	Soda and sulfite
Location	Company			<i>Tons</i>		
KENTUCKY						
Wickliffe	Westvaco Corporation	700	700	, .		
Hawesville	Willamette Industries	1010		. . .	1010	
MARYLAND						
Luke	Westvaco Corporation	907	907	. .		
PENNSYLVANIA						
Spring Grove	PH. Glatfelter Company	550	550	, .	. .	. .

*Southern Pulp and Paper Directory, Vol. 51, No. 11 (October 1988); and other sources.

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

Location	Map code	Company	Pulping capacity 24 hours
----- Tons -----			
MISSISSIPPI			
Grenada	0	Newsprint South	600
SOUTH CAROLINA			
Bennettsville	0	Willamette Industries	600

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Vissage, John S. 1991. Southern pulpwood production, 1988. Resour. Bull. SO-159. New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station. 25 p.

In 1988, Southern Pulpwood production exceeded 62 million cords, roundwood production increased 1 percent to 41.4 million cords, and wood residue production decreased 3 percent to 20.7 million cords. The pulping capacity of the 106 Southern pulpmills was 126,567 tons per day. Two pulpmills were under construction in the South.

Keywords: Pulpmills, roundwood, wood residues.

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