

United States
Department of
Agriculture

Forest Service



Southeastern Forest
Experiment Station

Resource Bulletin
SE-119

Southern Pulpwood Production, 1989

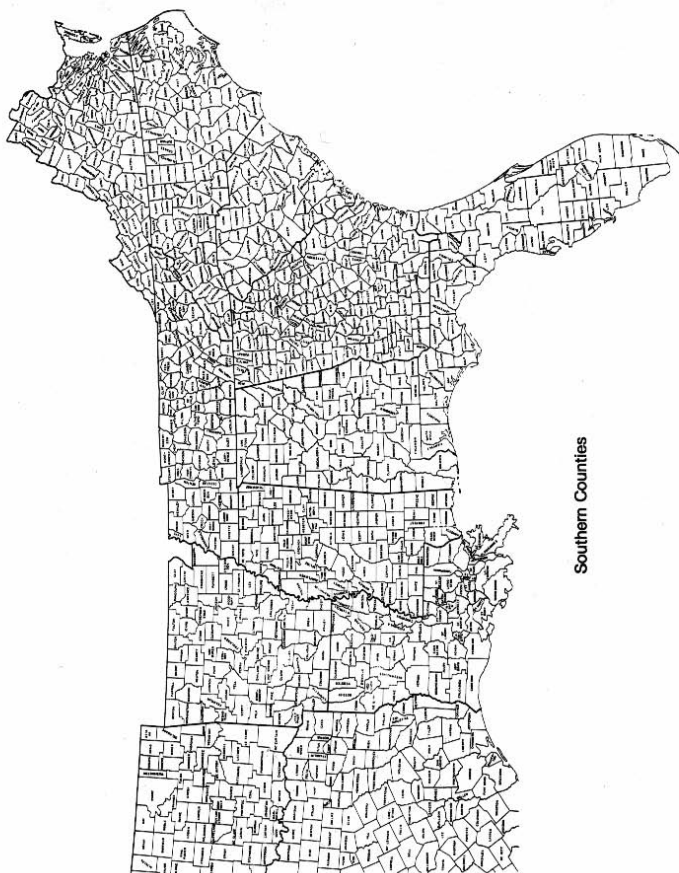
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June 1991

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P.O. Box 2680
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Southern Counties

Southern Pulpwood Production, 1989

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Asheville, North Carolina
and
SOUTHERN FOREST EXPERIMENT STATION
New Orleans, Louisiana
of the
Forest Service, U.S. Department of Agriculture
in cooperation with
AMERICAN PULPWOOD ASSOCIATION**

Southern Pulpwood Production, 1989

Introduction

This annual publication, issued in alternate years by the Southeastern and Southern Forest Experiment Stations, is based on a 100-percent canvass of all pulpmills in the 12 Southern States from Virginia to Texas. The movement of raw material between regions is obtained by exchanging information with other regional Experiment Stations. Roundwood volumes are recorded in standard cords and reported by county; residue volumes are reported by State. Pulpwood production data from mills reporting in nonstandard units are converted to standard cords by applying regional conversion factors.

Highlights

Almost 61 million cords of pulpwood were produced in the South during 1989. This total was 2 percent less than that in 1988, as southern pulpwood production declined for the second year in a row. Number of pulpmills remained at 106, but pulping capacity increased to 127,849 tons per day.

Pulpwood Production

The production of pulpwood in the South declined for the second year in a row. After a record production of more than 62 million cords in 1987, declines of 1 percent in 1988 and 2 percent in 1989 were recorded (table 1). The overall decrease in pulpwood production was the result of less pulping of residues from sawmills and veneer mills. Consumption from roundwood increased by 1 percent. Almost 70 percent of total production was softwood, with the Midsouth accounting for 54 percent (tables 2, 3, 6). Midsouth States accounted for 63 percent of hardwood pulpwood production.

Roundwood

While total pulpwood production was down, roundwood production increased by 1 percent (table 3). Five States had declines in production. Georgia and North Carolina had the greatest loss in volume, while Oklahoma had the largest percentage loss. Mississippi and Texas shared big gains in production. The Midsouth produced more than half of the hardwood roundwood, while the Southeast produced more than half of the softwood roundwood (table 6). Alabama and Georgia were the leading producers of roundwood, as they have been for several years. Georgia produced the most softwood and Alabama the most hardwood roundwood. Clarke County, Alabama, was the leading producer of roundwood in the South with over 400,000 cords. Across the entire region, 4 counties produced in excess of 300,000 cords, 16 counties produced 200,000 cords or more, and 111 counties produced over 100,000 (tables 7-18).

Plant Residues

Wood residues used for pulp decreased for the second year in a row with an 8-percent drop during 1989 (table 4). This decrease probably is not attributable to declining utilization of sawmill residues. More likely explanations are: (1) sawmill production has declined due to low demand for wood for home construction, and (2) increasing amounts of chipped residues are going into flakeboard products rather than paper. The Midsouth leads in the use of residues for pulp, with 55 percent of softwood and 62 percent of hardwood production coming from residues. Georgia continues to be the largest user of residues, despite a 16-percent decline since 1988. Eight of 12 States had declines in the use of residues, with Alabama showing the greatest loss at 24 percent. Florida mills increased their usage by 19 percent. Over 75 percent of the residues used were softwood (table 5). Chips account for 99 percent of residues used for pulpwood furnish.

Pulping Capacity and Mills

The number of pulp mills operating in the South remained at 106, the same as 1988 (fig. 2). Total pulping capacity in the region increased slightly. Alabama has the most mills, but Georgia has the largest pulping capacity. Five pulp mills located outside the southern region drew part of their pulpwood from the South. When the canvass was done, one pulp mill was under construction in South Carolina and was due to come on line in December 1990 (tables 19-21).

Trends

In 1987, total pulpwood production reached a peak of 62 million cords. However, production has declined in the past 2 years and now equals the 1986 level. In the past decade the softwood roundwood harvest has increased by less than 1 percent, while the hardwood roundwood harvest has increased by 48 percent. Use of softwood residues increased 11 percent and hardwood less than 1 percent (fig. 1).

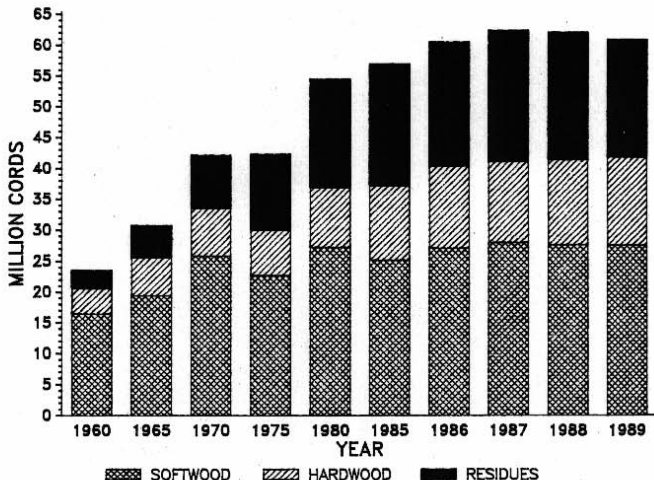


Figure 1--Southern pulpwood production, 1960-1989.

Table 1--Pulpwood production in the South during 1989, and change since 1988

State	Pulpwood	Change
	Thousand cords	Percent
Alabama	8,442.0	-9
Arkansas	4,861.9	-3
Florida	5,095.1	+4
Georgia	8,950.8	-9
Louisiana	6,076.3	+3
Mississippi	7,498.7	+4
North Carolina	5,147.5	-7
Oklahoma	566.2	-23
South Carolina	5,244.9	+2
Tennessee	1,224.1	--
Texas	4,389.6	+8
Virginia	3,416.3	+5
All States	60,913.4	-2

-- = negligible.

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

State	All species	Softwood	Hardwood
<u>Thousand cords</u>			
Alabama	6,555.9	3,413.0	3,142.9
Arkansas	2,306.5	1,340.9	965.6
Florida	3,789.0	3,464.7	324.3
Georgia	6,225.7	4,857.8	1,367.9
Louisiana	4,496.2	3,231.6	1,264.6
Mississippi	5,273.4	2,805.8	2,467.6
North Carolina	3,565.4	2,108.9	1,456.5
Oklahoma	220.0	112.5	107.5
South Carolina	3,714.1	2,601.6	1,112.5
Tennessee	997.5	600.7	396.8
Texas	2,455.0	1,777.1	677.9
Virginia	2,219.4	1,164.5	1,054.9
All States	41,818.1	27,479.1	14,339.0

Table 3--Roundwood production in the South, by State and species group, 1989 and 1988

State	Change from 1988	1989			1988		
		All species	Softwood	Hardwood	All species	Softwood	Hardwood
	<u>Percent</u>						
				<u>Thousand cords</u>			
Alabama	-4	6,555.9	3,413.0	3,142.9	6,800.0	3,826.2	2,973.8
Arkansas	-1	2,306.5	1,340.9	965.6	2,333.4	1,169.0	1,164.4
Florida	--	3,789.0	3,464.7	324.3	3,803.3	3,415.6	387.7
Georgia	-6	6,225.7	4,857.8	1,367.9	6,634.1	5,245.9	1,388.2
Louisiana	+6	4,496.2	3,231.6	1,264.6	4,224.9	3,205.4	1,019.5
Mississippi	+14	5,273.4	2,805.8	2,467.6	4,635.1	2,538.6	2,096.5
North Carolina	-8	3,565.4	2,108.9	1,456.5	3,859.4	2,258.6	1,600.8
Oklahoma	-34	220.0	112.5	107.5	332.5	131.2	201.3
South Carolina	+1	3,714.1	2,601.6	1,112.5	3,671.2	2,535.5	1,135.7
Tennessee	+4	997.5	600.7	396.8	960.2	573.9	386.3
Texas	+16	2,455.0	1,777.1	677.9	2,122.4	1,718.0	404.4
Virginia	+8	2,219.4	1,164.5	1,054.9	2,049.4	1,021.3	1,028.1
All States	+1	41,818.1	27,479.1	14,339.0	41,425.9	27,639.2	13,786.7

-- = negligible.

Table 4--Southern output of wood residues for pulp manufacture, by State and species group, 1989 and 1988

State	Change from 1988	1989			1988		
		All species	Softwood	Hardwood	All species	Softwood	Hardwood
	<u>Percent</u>	<u>Thousand cords</u>					
Alabama	-24	1,886.1	1,550.4	335.7	2,479.4	1,849.5	629.9
Arkansas	-4	2,555.4	1,713.4	842.0	2,674.4	1,870.8	803.6
Florida	+19	1,306.1	1,097.3	208.8	1,093.5	1,055.2	38.3
Georgia	-16	2,725.1	2,576.9	148.2	3,246.1	2,972.5	273.6
Louisiana	-6	1,580.1	1,394.7	185.4	1,674.9	1,247.2	427.7
Mississippi	-14	2,225.3	1,664.1	561.2	2,600.0	1,733.0	867.0
North Carolina	-6	1,582.1	1,044.3	537.8	1,681.7	1,130.2	551.5
Oklahoma	-13	346.2	340.5	5.7	398.7	390.7	8.0
South Carolina	+4	1,530.8	1,334.4	196.4	1,469.8	1,274.9	194.9
Tennessee	-13	226.6	32.9	193.7	261.4	44.1	217.3
Texas	--	1,934.5	1,513.9	420.6	1,934.4	1,272.3	662.1
Virginia	+1	1,196.9	741.2	455.7	1,189.6	741.8	447.8
All States	-8	19,095.2	15,004.0	4,091.2	20,703.9	15,582.2	5,121.7

-- = negligible.

Table 5--Southern output of wood residues for pulp manufacture, by State and type of residue, 1989

State	All types	Chips			Other-residues ^a		
		All species	Softwood	Hardwood	All species	Softwood	Hardwood
		<u>Thousand cords</u>					
Alabama	1886.1	1886.1	1550.4	335.7	0	0	0
Arkansas	2555.4	2514.2	1672.2	842.0	41.2	41.2	0
Florida	1306.1	1306.1	1097.3	208.8	0	0	0
Georgia	2725.1	2725.1	2576.9	148.2	0	0	0
Louisiana	1580.1	1580.1	1394.7	185.4	0	0	0
Mississippi	2225.3	2225.3	1664.1	561.2	0	0	0
North Carolina	1582.1	1576.1	1042.9	533.2	6.0	1.4	4.6
Oklahoma	346.2	346.2	340.5	5.7	0	0	0
South Carolina	1530.8	1530.8	1334.4	196.4	0	0	0
Tennessee	226.6	127.0	32.9	94.1	99.6	0	99.6
Texas	1934.5	1888.0	1467.4	420.6	46.5	46.5	0
Virginia	1196.9	1176.1	740.2	435.9	20.8	1.0	19.8
All States	19,095.2	18,881.1	14,913.9	3,967.2	214.1	90.1	124.0

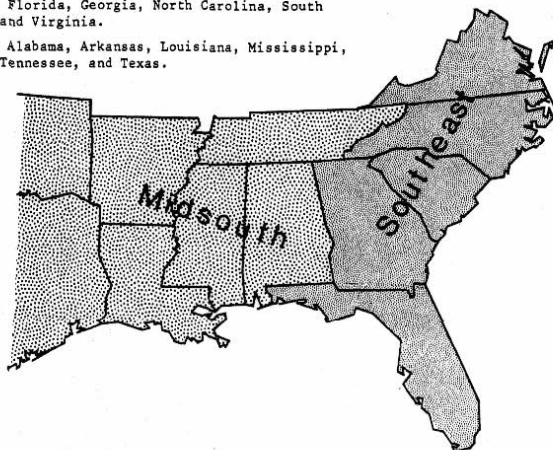
^aVeneer cores, pole and piling trim, cull material, sawdust, and secondary residues.

Table 6—Pulpwood production in the Southeast and the Midsouth, 1989

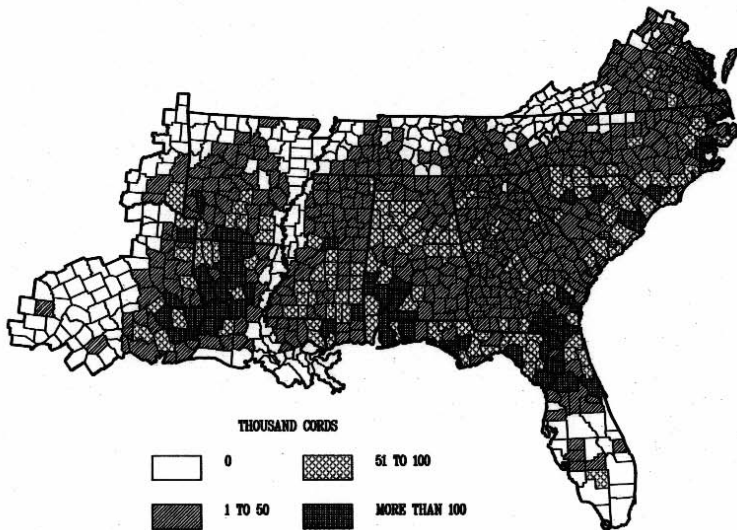
Region and source of wood	All species	Softwood	Hardwood
	<u>Standard cords</u>		
Southeast^a			
Roundwood	19,513,681	14,197,593	5,316,088
Residues	8,340,942	6,793,953	1,546,989
Total	27,854,623	20,991,546	6,863,077
Midsouth^b			
Roundwood	22,304,512	13,281,596	9,022,916
Residues	10,754,269	8,209,921	2,544,348
Total	33,058,781	21,491,517	11,567,264
Entire South			
Roundwood	41,818,193	27,479,189	14,339,004
Residues	19,095,211	15,003,874	4,091,337
Total	60,913,404	42,483,063	18,430,341

^aStates of Florida, Georgia, North Carolina, South Carolina, and Virginia.

^bStates of Alabama, Arkansas, Louisiana, Mississippi, Oklahoma, Tennessee, and Texas.



SOFTWOOD ROUNDWOOD PRODUCTION, 1989



HARDWOOD ROUNDWOOD PRODUCTION, 1989

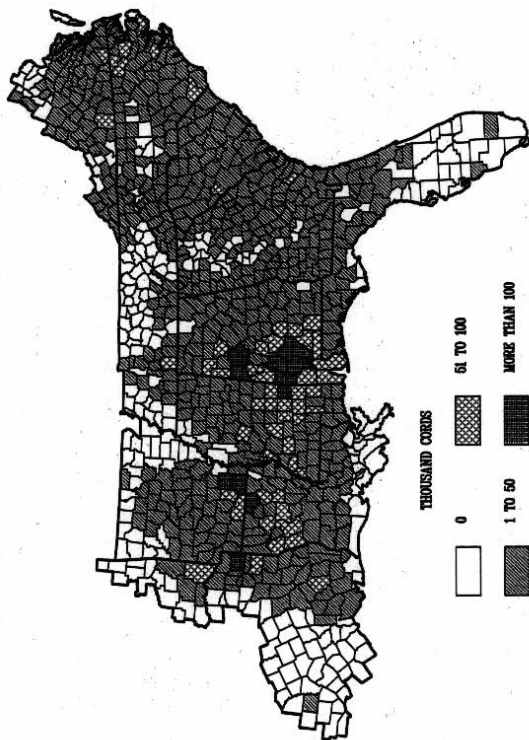


Table 7--Round pulpwood production in Alabama, 1989

County ^a	All species	Softwood	Hardwood	County ^a	All species	Softwood	Hardwood
Standard cords				Standard cords			
Autauga	66,249	28,832	37,417	Jackson	24,533	5,343	19,190
Baldwin	184,757	105,601	79,156	Jefferson	115,581	79,836	35,745
Barbour	40,996	25,448	15,548	Lamar	163,908	63,729	100,179
Bibb	120,510	75,366	45,144	Lauderdale	25,443	10,058	15,385
Blount	46,689	26,589	20,100	Lawrence	35,712	13,501	22,211
Bullock	40,728	28,217	12,511	Lee	47,051	36,329	10,722
Butler	149,414	80,211	69,203	Limestone	4,134	2,389	1,745
Calhoun	22,622	21,230	1,392	Lowndes	123,105	50,381	72,724
Chambers	72,195	51,154	21,041	Macon	57,739	30,932	26,807
Cherokee	11,071	6,416	4,655	Madison	4,132	4,048	84
Chilton	89,552	41,905	47,647	Marengo	203,700	93,309	110,391
Choctaw	279,549	118,873	160,676	Marion	137,133	61,546	75,587
Clarke	416,655	215,383	201,272	Marshall	14,571	6,055	8,516
Clay	74,305	53,565	18,740	Mobile	150,934	85,543	65,391
Cleburne	68,957	54,788	14,169	Monroe	293,545	175,143	118,402
Coffee	14,745	5,477	9,268	Montgomery	37,744	24,171	13,573
Colbert	74,793	34,095	40,698	Morgan	25,674	17,027	8,647
Conecuh	191,271	92,512	98,759	Perry	103,698	40,500	63,198
Coosa	100,936	63,494	37,442	Pickens	158,473	52,194	106,279
Covington	120,157	37,799	82,358	Pike	43,813	21,857	21,956
Crenshaw	84,876	37,065	47,811	Randolph	71,664	51,766	19,898
Cullman	81,653	51,409	30,246	Russell	55,090	40,580	14,510
Dale	3,400	1,924	1,476	St. Clair	45,563	37,441	8,122
Dallas	134,499	43,508	90,991	Shelby	118,879	81,664	37,215
De Kalb	32,256	18,310	13,946	Sumter	123,954	55,964	67,990
Elmore	58,268	33,415	24,853	Talladega	94,307	76,461	17,846
Escambia	179,838	120,993	58,845	Tallapoosa	106,157	70,969	35,188
Etowah	21,749	14,103	7,646	Tuscaloosa	246,812	92,654	154,158
Fayette	107,085	59,401	47,684	Walker	131,426	76,535	54,891
Franklin	107,844	63,413	44,431	Washington	166,620	75,631	90,989
Geneva	33,903	9,080	24,823	Wilcox	293,771	111,991	181,780
Greene	107,843	37,951	69,892	Winston	127,309	84,169	43,140
Hale	51,833	12,000	39,833	All counties	6,555,890	3,412,998	3,142,892
Henry	2,832	2,832	0				
Houston	9,683	8,923	760				

^aCounties with no pulpwood production are omitted.

Table 6--Round pulpwood production in Arkansas, 1989

County ^a	All species	Softwood	Hardwood	County ^a	All species	Softwood	Hardwood
<u>Standard cords</u>				<u>Standard cords</u>			
Arkansas	1,522	771	751	Lafayette	48,400	26,027	22,373
Ashley	213,224	69,145	144,079	Lincoln	13,881	12,046	1,835
Baxter	89	40	49	Little River	60,313	29,228	31,085
Bradley	140,430	45,960	94,470	Logan	5,535	5,132	403
Calhoun	81,304	67,465	13,839	Lonoke	3,209	81	3,128
Carroll	11	11	0	Miller	103,251	60,790	42,461
Chicot	2,520	80	2,440	Monroe	4,020	1,410	2,610
Clark	59,352	33,566	25,786	Montgomery	18,778	8,044	10,734
Clay	1,126	790	336	Nevada	77,746	47,287	30,459
Cleburne	11,778	8,052	3,726	Newton	2,387	0	2,387
Cleveland	45,769	32,952	12,817	Ouachita	92,884	61,812	31,072
Columbia	154,500	111,168	43,332	Perry	19,608	8,277	11,331
Conway	8,874	4,984	3,890	Phillips	2	0	2
Crittenden	17	0	17	Pike	15,437	7,363	8,074
Cross	247	0	247	Poinsett	13	13	0
Dallas	109,581	78,436	31,125	Polk	17,460	7,780	9,680
Desha	311	18	293	Pope	18,181	14,724	3,457
Drew	159,756	50,737	109,019	Prairie	2,434	611	1,823
Faulkner	3,334	335	2,999	Pulaski	13,850	5,464	8,386
Franklin	297	297	0	St. Francis	279	0	279
Fulton	7,616	3,541	4,075	Saline	32,213	25,644	6,569
Garland	8,831	7,524	1,307	Scott	10,809	5,307	5,302
Grant	95,258	81,589	13,669	Searcy	1,539	844	695
Hempstead	58,333	37,698	20,635	Sevier	54,026	17,204	36,822
Hot Spring	41,798	28,588	13,210	Stone	9,014	4,185	4,829
Howard	191,619	171,342	20,277	Union	194,921	106,518	88,403
Independence	999	168	831	Van Buren	19,410	10,924	8,486
Jefferson	39,819	20,091	19,728	Washington	10	0	10
Johnson	6,440	5,398	1,042	White	5,973	2,828	3,145
				Yell	16,206	10,390	5,816
				All counties	2,306,544	1,340,899	965,645

^aCounties with no pulpwood production are omitted.

Table 9—Round pulpwood production in Florida, 1989

County ^a	All species	Softwood	Hardwood	County ^a	All species	Softwood	Hardwood
Standard cords				Standard cords			
Alachua	123,361	116,990	6,371	Lafayette	78,761	78,186	575
Baker	121,451	121,252	199	Lake	7,307	7,307	0
Bay	182,389	169,257	13,132	Lee	2,374	84	2,290
Bradford	148,885	144,608	4,277	Leon	37,122	35,875	1,247
Broward	665	0	665	Levy	160,511	134,114	26,397
				Liberty	63,590	56,429	7,161
Calhoun	108,421	104,749	3,672	Madison	99,095	74,866	24,229
Charlotte	4,445	4,445	0	Marion	107,732	105,241	2,491
Citrus	8,675	8,675	0				
Clay	98,868	95,190	3,678	Nassau	173,342	157,680	15,662
Columbia	166,573	161,840	4,733				
De Soto	33,839	33,839	0	Okaloosa	29,587	26,095	3,492
Dixie	112,536	87,622	24,914	Orange	32,221	7,307	24,914
Duval	66,977	62,727	4,250				
Escambia	87,934	70,218	17,716	Pasco	22,247	22,101	146
				Polk	344	0	344
Flagler	68,931	65,620	3,311	Putnam	41,136	38,645	2,491
Franklin	19,326	19,326	0				
Gadsden	85,191	68,192	16,999	St. Johns	78,314	67,064	11,250
Gilchrist	76,350	76,350	0	St. Lucie	657	657	0
Glades	1,111	1,111	0	Santa Rosa	141,734	119,098	22,636
Gulf	62,155	62,105	50	Seminole	25,992	7,307	18,685
				Sumter	9,798	7,307	2,491
Hamilton	61,658	60,570	1,088	Suwannee	61,632	61,450	182
Hardee	12,166	12,166	0				
Hendry	56,636	56,636	0	Taylor	363,916	359,638	4,278
Holmes	74,170	61,072	13,098	Union	43,827	41,849	1,978
Jackson	62,715	50,805	11,910	Volusia	114,951	112,442	2,509
Jefferson	65,081	60,156	4,925				
				Wakulla	53,618	53,618	0
				Walton	74,668	70,385	4,283
				Washington	53,998	44,422	9,576
				All counties	3,788,983	3,464,688	324,295

^aCounties with no pulpwood production are omitted.

Table 10--Round pulpwood production in Georgia, 1989

County ^a	All species	Softwood	Hardwood	County ^a	All species	Softwood	Hardwood
<u>Standard cords</u>				<u>Standard cords</u>			
Appling	108,966	95,929	13,037	Early	51,738	41,887	9,851
Atkinson	18,462	15,419	3,043	Echols	107,149	103,648	1,501
Bacon	39,639	38,593	1,046	Effingham	66,723	46,522	20,201
Baker	27,588	21,999	5,589	Elbert	24,253	17,241	7,012
Baldwin	32,400	26,435	5,965	Emanuel	67,792	30,660	37,132
Banks	12,880	12,880	0	Evans	37,801	24,079	13,722
Barrow	18,304	17,563	741	Fannin	20,715	19,644	1,071
Bartow	39,398	36,398	3,000	Fayette	5,042	4,525	517
Ben Hill	79,253	64,206	15,047	Floyd	82,833	62,833	20,000
Berrien	34,281	33,741	540	Forsyth	3,963	3,963	0
Bibb	19,077	13,943	5,134	Franklin	5,506	3,840	1,666
Blackley	24,275	20,439	3,836	Fulton	3,174	3,174	0
Brantley	46,080	27,295	18,785	Gilmer	15,873	15,873	0
Brooks	25,469	19,702	5,767	Glascock	10,162	3,019	7,143
Bryan	54,745	45,212	9,533	Glynn	151,934	118,339	33,595
Bulloch	71,895	34,566	37,329	Gordon	61,122	53,946	7,176
Burke	56,686	11,161	45,525	Grady	39,827	19,770	20,057
Butts	12,828	12,276	552	Greene	29,917	13,317	16,600
Calhoun	25,166	14,840	10,326	Gwinnett	29,943	29,202	741
Camden	95,282	80,557	14,725	Habersham	8,391	3,213	5,178
Candler	8,930	6,492	2,438	Hall	12,880	12,880	0
Carroll	38,563	34,615	3,948	Hancock	45,494	18,339	27,155
Catoosa	11,975	5,637	6,338	Haralson	18,966	14,966	4,000
Charlton	149,178	134,848	14,330	Harris	43,299	29,437	13,862
Chatham	50,377	42,460	7,917	Hart	5,508	3,840	1,668
Chattahoochee	29,346	20,964	8,382	Heard	38,278	34,967	3,311
Chattooga	48,593	40,181	8,412	Henry	87,507	83,898	3,609
Cherokee	22,609	21,609	1,000	Houston	76,307	72,618	3,689
Clarke	2,820	1,718	1,102	Irwin	6,062	5,961	101
Clay	16,905	9,812	7,093	Jackson	27,017	26,572	445
Clayton	1,987	1,987	0	Jasper	19,535	19,522	13
Clinch	178,566	171,626	6,940	Jeff Davis	76,726	60,137	16,589
Cobb	8,789	8,789	0	Jefferson	30,439	12,420	18,019
Coffee	50,560	44,591	5,969	Jenkins	30,984	18,083	12,901
Colquitt	36,091	30,118	5,973	Johnson	24,456	19,992	4,464
Columbia	10,842	3,879	6,963	Jones	41,114	37,449	3,665
Cook	23,978	20,875	3,103	Lamar	88,335	88,335	0
Coweta	44,440	41,637	2,803	Lanier	17,083	16,434	649
Crawford	40,211	39,995	216	Laurens	72,209	43,639	28,570
Crisp	31,160	28,189	2,971	Lee	17,906	11,569	6,337
Dade	5,861	3,963	1,898	Liberty	44,341	34,405	9,936
Dawson	26,606	26,606	0	Lincoln	15,083	6,573	8,510
Decatur	58,011	38,345	19,666	Long	120,389	56,364	64,025
De Kalb	4,176	4,176	0	Lowndes	101,403	99,777	1,626
Dodge	84,199	51,799	32,400	Lumpkin	991	991	0
Dooley	19,268	19,098	170				
Dougherty	36,441	31,073	5,368				
Douglas	4,179	3,963	216				

Continued

Table 10--Round pulpwood production in Georgia, 1989--Continued

County ^a	All species	Softwood	Hardwood	County ^a	All species	Softwood	Hardwood
<u>Standard cords</u>				<u>Standard cords</u>			
McDuffie	9,785	1,932	7,853	Spalding	5,469	5,469	0
McIntosh	53,999	45,556	8,443	Stephens	6,834	4,579	2,255
Macon	26,366	25,431	935	Stewart	63,268	49,820	13,448
Madison	2,556	1,813	743	Sumter	70,444	33,541	36,903
Marion	36,551	29,236	7,315				
Meriwether	124,901	99,724	25,177	Talbot	60,122	49,193	10,929
Miller	8,335	7,229	1,106	Taliaferro	22,995	5,426	17,569
Mitchell	59,488	47,452	12,036	Tattnall	32,531	27,866	4,665
Monroe	33,033	31,977	1,056	Taylor	37,714	35,460	2,254
Montgomery	26,391	17,838	8,553	Telfair	30,616	27,898	2,718
Morgan	4,370	2,661	1,709	Terrell	38,530	23,334	15,196
Murray	32,637	28,004	4,633	Thomas	63,466	54,590	8,876
Muscogee	10,393	9,230	1,163	Tift	12,666	11,422	1,244
				Toombs	5,332	4,131	1,201
Newton	9,972	9,972	0	Towns	2,230	1,778	452
Oconee	4,189	727	3,462	Treutlen	9,637	8,452	1,185
Oglethorpe	36,404	17,205	19,199	Troup	80,059	62,719	17,340
				Turner	8,792	8,792	0
Paulding	26,770	25,770	1,000	Twiggs	68,885	59,906	8,979
Peach	5,555	5,555	0				
Pickens	9,988	9,983	5	Union	14,612	13,898	714
Pierce	50,907	41,708	9,199	Upson	45,200	45,200	0
Pike	7,647	7,647	0				
Polk	36,633	33,633	3,000	Walker	11,293	7,875	3,418
Pulaski	17,979	16,854	1,125	Walton	3,850	1,315	2,535
Putnam	51,483	49,360	2,123	Ware	156,846	147,083	9,763
				Warren	34,087	10,468	23,619
Quitman	28,117	21,151	6,966	Washington	47,636	10,815	36,821
				Wayne	263,442	239,695	23,747
Rabun	4,339	1,482	2,857	Webster	48,101	37,789	10,312
Randolph	70,636	44,913	25,723	Wheeler	15,696	7,487	8,209
Richmond	13,423	2,031	11,392	Whitfield	39,356	36,171	3,185
Rockdale	282	282	0	Wilcox	53,833	45,204	8,629
				Wilkes	106,972	61,568	45,404
Schley	35,882	21,350	14,532	Wilkinson	61,991	21,028	40,963
Screven	47,008	17,751	29,257	Worth	37,324	34,989	2,335
Seminole	6,404	5,361	1,043				
				All counties	6,225,757	4,857,841	1,367,916

^aCounties with no pulpwood production are omitted.

Table 11—Round pulpwood production in Louisiana, 1989

Parish ^a	All species	Softwood	Hardwood	Parish ^a	All species	Softwood	Hardwood
Standard cords				Standard cords			
Acadia	3,822	3,301	521	Madison	27,537	9	27,528
Allen	111,055	98,692	12,363	Morehouse	54,040	19,927	34,113
Ascension	5,523	1,239	4,284	Natchitoches	186,059	124,126	61,933
Avoyelles	36,142	6,958	29,184	Ouachita	171,007	80,290	90,717
Beauregard	349,125	346,291	2,834	Pointe Coupee	2,886	11	2,875
Bienvenue	284,663	217,953	66,710	Rapides	182,500	166,580	15,920
Bossier	129,427	79,154	50,273	Red River	51,890	32,568	19,322
Caddo	84,433	51,901	32,532	Richland	9,501	641	8,860
Calcasieu	50,759	49,831	928	Sabine	273,804	203,385	70,419
Caldwell	81,333	29,437	51,896	St. Charles	211	0	211
Cameron	8	8	0	St. Helena	56,467	37,039	19,428
Catahoula	54,628	34,610	20,018	St. James	267	0	267
Claiborne	186,519	152,670	33,849	St. Landry	896	101	795
Concordia	49,553	35	49,518	St. Martin	2,699	0	2,699
De Soto	199,285	128,485	70,800	St. Tammany	72,083	61,774	10,309
East Baton Rouge	8,237	3,340	4,897	Tangipahoa	45,734	31,371	14,363
East Carroll	16,172	206	15,966	Tensas	19,381	20	19,361
East Feliciana	28,384	18,638	9,746	Terrebonne	51	25	26
Evangeline	20,321	16,663	3,658	Union	292,994	174,959	118,035
Franklin	5,636	249	5,387	Vermilion	29	12	17
Grant	93,954	69,714	24,240	Vernon	329,003	298,617	30,386
Iberia	26	0	26	Washington	75,922	70,297	5,625
Iberville	9,684	35	9,649	Webster	79,498	58,993	20,505
Jackson	174,649	134,339	40,310	West Baton Rouge	1,261	152	1,109
Jefferson	19	7	12	West Carroll	4	4	0
Jefferson Davis	8,947	2,884	6,063	West Feliciana	10,961	4,102	6,859
Lafayette	5,553	5,553	0	Winn	201,643	139,082	62,561
Lafourche	10	10	0	All parishes	4,496,187	3,231,615	1,264,572
La Salle	148,274	123,251	25,023				
Lincoln	151,430	115,576	35,854				
Livingston	50,288	36,500	13,788				

^aParishes with no pulpwood production are omitted.

Table 12--Round pulpwood production in Mississippi, 1989

County ^a	All species	Softwood	Hardwood	County ^a	All species	Softwood	Hardwood
Standard cords				Standard cords			
Adams	60,665	5,255	55,410	Lincoln	101,895	57,079	44,816
Alcorn	46,530	32,775	13,755	Lowndes	30,395	2,911	27,484
Amite	111,061	69,528	41,533	Madison	34,369	14,051	20,318
Attala	147,600	110,184	37,416	Marion	83,729	46,417	37,312
Benton	25,253	18,551	6,702	Marshall	36,028	16,024	20,004
Calhoun	30,012	17,022	12,990	Monroe	33,012	27,636	5,376
Carroll	30,279	16,824	13,455	Montgomery	57,702	29,741	27,961
Chickasaw	27,566	22,637	4,929	Neshoba	91,283	32,659	58,624
Choctaw	42,223	33,740	8,483	Newton	111,922	46,250	65,672
Claiborne	61,741	12,608	49,133	Noxubee	19,491	11,731	7,760
Clarke	172,390	67,084	105,306	Oktober	27,551	23,026	4,525
Clay	14,381	6,742	7,639	Panola	9,094	6,349	2,745
Coahoma	4,113	0	4,113	Pearl River	133,885	112,291	21,594
Copiah	140,319	56,260	84,059	Perry	78,922	52,381	26,541
Covington	125,324	49,606	75,718	Pike	96,226	56,870	39,356
DeSoto	1,221	1,040	181	Pontotoc	21,430	13,476	7,954
Forrest	132,488	75,509	56,979	Prentiss	58,629	37,050	21,579
Franklin	89,603	39,124	50,479	Quitman	1,079	995	84
George	60,559	31,556	29,003	Rankin	148,430	77,921	70,509
Greene	217,521	133,590	83,931	Scott	96,518	65,753	30,765
Grenada	54,980	11,540	43,440	Sharkey	2,281	4	2,277
Hancock	88,850	83,964	4,886	Simpson	85,238	35,820	49,418
Harrison	46,631	39,156	7,475	Smith	133,714	59,521	74,193
Hinds	60,357	21,142	39,215	Stone	46,551	32,446	14,105
Holmes	127,299	52,145	75,154	Sunflower	477	245	232
Humphreys	1,194	0	1,194	Tallahatchie	5,654	1,439	4,215
Issaquena	7,256	444	6,812	Tate	1,491	1,190	301
Itawamba	60,071	44,582	15,489	Tippah	53,652	32,635	21,017
Jackson	58,804	37,454	21,350	Tishomingo	94,841	73,932	20,909
Jasper	90,694	31,273	59,421	Union	14,885	11,457	3,428
Jefferson	112,231	30,881	81,350	Walthall	46,355	30,994	15,361
Jefferson Davis	60,594	35,366	25,228	Warren	57,230	1,922	55,308
Jones	154,006	76,100	77,906	Washington	20,760	24	20,736
Kemper	82,190	32,800	49,390	Wayne	180,495	85,397	95,098
Lafayette	52,899	47,015	5,884	Webster	32,698	24,832	7,866
Lamar	68,066	53,519	14,547	Wilkinson	65,232	27,066	38,166
Lauderdale	150,808	56,011	94,797	Winston	57,832	40,527	17,305
Lawrence	94,288	60,993	33,295	Yalobusha	22,101	12,310	9,791
Leake	113,405	68,039	45,366	Yazoo	26,111	2,604	23,507
Lee	27,237	18,098	9,139	All counties ^a	5,273,401	2,805,838	2,467,563
Leflore	1,504	705	799				

^aCounties with no pulpwood production are omitted.

Table 13--Round pulpwood production in North Carolina, 1989

County ^a	All species	Softwood	Hardwood	County ^a	All species	Softwood	Hardwood
Standard cords				Standard cords			
Alamance	1,024	981	43	Lee	12,974	5,469	7,505
Alexander	3,112	2,661	451	Lenoir	24,015	15,097	8,918
Alleghany	396	37	359	Lincoln	18,395	17,342	1,053
Anson	74,462	52,374	22,088	McDowell	32,978	12,846	20,132
Ashe	676	0	676	Macon	6,660	1,498	5,162
Avery	10	5	5	Madison	2,831	220	2,611
Beaufort	364,209	321,764	42,445	Martin	73,847	54,331	21,516
Bertie	135,249	56,137	79,112	Mecklenburg	6,074	5,357	517
Bladen	101,278	53,951	47,327	Mitchell	242	0	242
Brunswick	71,071	56,763	14,308	Montgomery	40,813	22,987	17,826
Buncombe	16,834	8,668	8,166	Moore	54,618	29,916	24,702
Burke	35,418	20,558	14,860	Nash	50,281	22,455	27,826
Cabarrus	1,169	832	337	New Hanover	25,003	18,399	6,604
Caldwell	21,170	11,732	9,438	Northampton	76,643	19,552	57,091
Camden	6,242	1,321	4,921	Onslow	65,679	56,231	9,448
Carteret	51,122	41,303	9,819	Orange	3,036	2,127	909
Caswell	15,244	10	15,234	Pamlico	6,251	327	5,924
Catawba	4,498	4,483	15	Pasquotank	17,420	3,471	13,949
Chatham	72,188	51,844	20,344	Pender	92,056	62,274	29,782
Cherokee	38,971	31,161	7,810	Perquimans	26,933	13,237	13,696
Chowan	12,741	4,751	7,990	Person	17,750	2,738	15,012
Clay	4,120	2,487	1,633	Pitt	85,289	59,831	25,458
Cleveland	23,439	21,665	1,774	Polk	10,868	9,281	1,587
Columbus	181,994	106,771	75,223	Randolph	2,241	2,130	111
Craven	248,076	149,782	98,294	Richmond	34,533	20,802	13,731
Cumberland	57,402	35,343	21,859	Robeson	104,330	64,641	39,689
Currituck	13,886	3,537	10,349	Rockingham	15,012	0	15,012
Dare	2,652	2,306	346	Rowan	5,608	5,266	342
Davidson	989	755	234	Rutherford	49,581	30,971	18,610
Davie	716	502	214	Sampson	89,706	48,288	41,418
Duplin	56,411	24,101	32,310	Scotland	21,344	18,542	2,802
Durham	1,312	880	432	Stanly	13,100	7,021	6,079
Edgecombe	34,968	13,428	21,540	Stokes	17,405	303	17,102
Forsyth	1,130	358	772	Surry	6,719	2,517	4,202
Franklin	38,531	20,719	17,812	Swain	2,760	796	1,964
Gaston	5,976	5,102	874	Sampson	89,706	48,288	41,418
Gates	27,410	10,379	17,031	Scotland	21,344	18,542	2,802
Graham	3,868	2,020	1,848	Stanly	13,100	7,021	6,079
Granville	19,479	14,794	4,685	Stokes	17,405	303	17,102
Greene	30,699	22,244	8,455	Surry	6,719	2,517	4,202
Guilford	4,992	1,331	3,661	Swain	2,760	796	1,964
Halifax	102,350	34,374	67,976	Transylvania	7,324	1,817	5,507
Harnett	18,974	10,818	8,156	Tyrrell	12,647	4,497	8,150
Haywood	9,865	1,329	8,536	Union	9,425	8,206	1,219
Henderson	6,759	974	5,785	Vance	21,428	11,075	10,353
Hertford	78,937	37,055	41,882	Wake	33,293	20,457	12,836
Hoke	5,397	3,611	1,786	Warren	76,051	44,034	32,017
Hyde	121,420	61,840	59,580	Washington	35,779	8,723	27,056
Iredell	17,420	15,856	1,564	Watauga	631	68	563
Jackson	15,266	12,322	2,944	Wayne	25,070	8,720	16,350
Johnston	19,104	6,404	12,700	Wilkes	11,387	1,291	10,096
Jones	4,872	1,192	3,680	Wilson	28,804	17,359	11,445
				Yadkin	2,394	387	2,007
				Yancey	703	0	703
				All counties	3,565,429	2,108,912	1,456,517

^aCounties with no pulpwood production are omitted.

Table 14--Round pulpwood production in Oklahoma,
1989

County ^a	All species	Softwood	Hardwood
<u>Standard cords</u>			
Choctaw	9,423	4,429	4,994
Latimer	62	51	11
Le Flore	3,231	1,710	1,521
McCurtain	131,961	63,449	68,512
Pushmataha	75,328	42,860	32,468
All counties	220,005	112,499	107,506

^aCounties with no pulpwood production are omitted.

Table 15--Round pulpwood production in South Carolina, 1989

County ^a	All species	Softwood	Hardwood	County ^a	All species	Softwood	Hardwood
<u>Standard cords</u>				<u>Standard cords</u>			
Abbeville	62,236	34,000	28,236	Jasper	83,021	60,916	22,105
Aiken	40,732	19,646	21,086	Kershaw	154,780	127,389	27,391
Allendale	32,658	23,279	9,379	Lancaster	112,633	86,446	26,187
Anderson	25,808	15,228	10,580	Laurens	82,635	57,270	25,365
Bamberg	23,879	14,870	9,009	Lee	49,917	37,661	12,256
Barnwell	45,690	23,322	22,368	Lexington	28,702	11,049	17,653
Beaufort	26,250	17,439	8,811	McCormick	39,889	16,718	23,171
Berkeley	128,115	98,158	29,957	Marion	57,723	34,733	22,990
Calhoun	36,644	22,470	14,174	Marlboro	73,422	44,701	28,721
Charleston	110,748	83,157	27,591	Newberry	129,358	101,863	27,495
Cherokee	51,311	49,201	2,110	Oconee	24,955	19,814	5,141
Chester	109,547	75,756	33,791	Orangeburg	92,063	41,819	50,244
Chesterfield	103,545	66,976	36,569	Pickens	45,978	25,419	20,559
Clarendon	111,040	74,538	36,502	Richland	60,092	42,086	18,006
Colleton	105,262	68,162	37,100	Saluda	33,696	22,634	11,062
Darlington	49,551	24,446	25,105	Spartanburg	118,784	93,006	25,778
Dillon	31,841	17,747	14,094	Sumter	99,047	69,879	29,168
Dorchester	158,899	134,136	24,763	Union	66,968	58,280	8,688
Edgefield	107,448	53,871	53,577	Williamsburg	174,769	126,517	48,252
Fairfield	117,124	98,496	18,628	York	70,948	67,790	3,158
Florence	110,185	79,643	30,542	All counties	3,714,101	2,601,632	1,112,469
Georgetown	223,683	181,501	42,182				
Greenville	48,696	23,728	24,968				
Greenwood	65,767	20,659	45,108				
Hampton	78,644	46,938	31,706				
Horry	109,418	88,275	21,143				

^aCounties with no pulpwood production are omitted.

Table 16--Round pulpwood production in Tennessee, 1989

County ^a	All species	Softwood	Hardwood	County ^a	All species	Softwood	Hardwood
Standard cords				Standard cords			
Anderson	10,018	10,018	0	Jefferson	473	473	0
Bedford	28,618	9,896	18,722	Johnson	2,685	0	2,685
Benton	1,236	1,216	20	Knox	10,642	10,642	0
Bledsoe	14,139	370	13,569	Lawrence	24,701	10,448	14,253
Blount	9,650	9,650	0	Lewis	9,919	3,919	6,000
Bradley	44,591	44,591	0	Loudon	13,602	13,602	0
Carroll	7,191	3,076	4,115	McMinn	80,938	80,938	0
Carter	2,009	0	2,009	McNairy	40,202	28,405	11,797
Chester	2,814	1,503	1,311	Madison	4,016	3,028	988
Claiborne	1,913	0	1,913	Marion	22,324	8,337	13,987
Cocke	735	694	41	Mauzy	187	0	187
Coffee	9,421	3,704	5,717	Meigs	15,423	11,806	3,617
Cumberland	23,624	23,608	16	Monroe	30,504	30,504	0
Decatur	10,847	6,214	4,633	Morgan	8,343	8,343	0
Dickson	1,403	1,403	0	Perry	15,287	7,952	7,335
Fayette	2,603	2,603	0	Polk	29,162	29,162	0
Fentress	9,890	9,890	0	Putnam	3,103	3,103	0
Franklin	5,035	0	5,035	Rhea	38,743	38,697	46
Gibson	5	5	0	Roane	10,737	10,737	0
Giles	8,653	3,473	5,180	Scott	1,202	1,202	0
Grainger	1,351	0	1,351	Sequatchie	28,457	18,629	9,828
Greene	1,998	474	1,524	Sevier	127	127	0
Grundy	15,072	2,330	12,742	Stewart	40,663	772	39,891
Hamilton	40,111	32,444	7,667	Sullivan	5,644	0	5,644
Hancock	4,422	282	4,140	Unicoi	652	0	652
Hardeman	10,242	8,809	1,433	Van Buren	2,806	2,806	0
Hardin	30,712	37,096	13,616	Warren	3,842	162	3,680
Hawkins	7,993	0	7,993	Washington	752	0	752
Haywood	99	79	20	Wayne	108,808	31,305	77,503
Henderson	2,375	2,168	207	White	22,589	22,589	0
Henry	31,852	5,542	26,310				
Hickman	39,558	1,633	37,925				
Houston	1,455	0	1,455				
Humphreys	19,302	0	19,302				
				All counties	997,470	600,659	396,811

^aCounties with no pulpwood production are omitted.

Table 17--Round pulpwood production in Texas, 1989

County ^a	All species	Softwood	Hardwood	County ^a	All species	Softwood	Hardwood
<u>Standard cords</u>				<u>Standard cords</u>			
Anderson	9,148	4,830	4,318	Marion	71,436	45,724	25,712
Angelina	232,100	225,808	6,292	Montgomery	75,123	67,462	7,661
Bowie	83,702	53,975	29,727	Morris	63,152	34,932	28,220
Camp	1,624	728	896	Nacogdoches	37,401	27,838	9,563
Cass	283,609	169,487	114,122	Newton	148,226	116,559	31,667
Chambers	648	648	0	Orange	16,724	9,524	7,200
Cherokee	56,392	46,288	10,104	Panola	61,859	43,597	18,262
Fayette	3,568	3,568	0	Polk	185,523	120,268	65,255
Franklin	3,717	298	3,419	Red River	536	8	528
Gregg	22,955	8,676	14,279	Rusk	35,334	28,613	6,721
Grimes	4,065	2,414	1,651	Sabine	13,983	4,193	9,790
Hardin	146,903	121,772	25,131	San Augustine	14,412	7,284	7,128
Harris	10,162	7,389	2,773	San Jacinto	62,989	45,244	17,745
Harrison	134,423	81,322	53,101	Shelby	88,602	60,974	27,628
Henderson	377	71	306	Smith	36,064	24,660	11,404
Houston	45,888	27,130	18,758	Titus	4,025	714	3,311
Jasper	173,427	140,254	33,173	Trinity	65,337	61,114	4,223
Jefferson	5,298	5,087	211	Tyler	75,411	56,250	19,161
Leon	464	464	0	Upshur	50,287	32,940	17,347
Liberty	72,620	57,278	15,342	Walker	44,176	26,612	17,564
Llano	12,217	3,983	8,234	Waller	1,108	1,108	0
				All counties	2,455,015	1,777,088	677,927

^aCounties with no pulpwood production are omitted.

Table 18--Round pulpwood production in Virginia, 1989

County ^a	All species	Softwood	Hardwood	County ^a	All species	Softwood	Hardwood
Standard cords				Standard cords			
Accomack	8,259	7,853	406	Lancaster	4,219	2,513	1,706
Albemarle	26,798	11,382	15,416	Lee	11,814	0	11,814
Alleghany	24,721	6,607	18,114	Louisa	23,235	21,620	1,615
Amelia	34,609	18,842	15,767	Lunenburg	48,280	22,541	25,739
Amherst	38,492	11,636	26,856	Madison	5,499	4,895	604
Appomattox	62,274	33,457	28,817	Mathews	399	168	231
Arlington	79	79	0	Mecklenburg	54,319	24,002	30,317
Augusta	8,252	1,639	6,613	Middlesex	9,437	6,806	2,631
Bath	32,424	4,697	27,727	Montgomery	1,302	344	958
Bedford	41,659	5,436	36,223	Nelson	44,437	16,968	27,469
Bland	168	0	168	New Kent	36,535	27,448	9,087
Botetourt	25,873	5,435	20,438	Newport News	1,166	1,124	42
Brunswick	117,829	76,993	40,836	Northampton	1,369	713	656
Buchanan	5,317	33	5,284	Northumberland	7,006	2,882	4,124
Buckingham	148,320	98,717	49,603	Nottoway	28,820	20,920	7,900
Campbell	79,977	47,683	32,294	Orange	14,257	8,606	5,651
Caroline	23,596	16,219	7,377	Page	6	6	0
Charles City	20,657	14,093	6,564	Patrick	84	0	84
Charlotte	91,421	56,460	34,961	Pittsylvania	84,453	32,995	51,458
Chesapeake	11,262	2,158	9,104	Powhatan	28,154	19,885	8,269
Chesterfield	22,967	21,050	1,917	Prince Edward	43,910	30,932	12,978
Craig	17,475	1,975	15,500	Prince George	37,836	26,897	10,939
Culpeper	11,131	8,443	2,688	Prince William	1,381	1,082	299
Cumberland	43,100	22,128	20,972	Pulaski	219	0	219
Dickenson	1,255	0	1,255	Rappahannock	235	235	0
Dinwiddie	69,765	42,795	26,970	Richmond	14,548	11,164	3,384
Essex	27,616	18,250	9,366	Roanoke	930	40	890
Fairfax	1,258	1,166	92	Rockbridge	21,550	3,167	18,383
Fauquier	4,137	4,074	63	Rockingham	279	22	257
Floyd	727	0	727	Russell	18,033	0	18,033
Fluvanna	20,650	10,225	10,425	Scott	17,443	0	17,443
Franklin	47,058	14,193	32,865	Shenandoah	5,175	3,126	2,049
Frederick	5,971	4,638	1,333	Smyth	1,932	0	1,932
Gloucester	36,580	27,656	8,924	Southampton	65,073	13,961	51,112
Goochland	24,648	16,043	8,605	Spotsylvania	66,065	52,957	13,108
Grayson	997	40	957	Stafford	4,237	4,228	9
Greene	615	188	427	Suffolk	31,746	12,767	18,979
Greensville	28,918	11,626	17,292	Surry	29,533	16,267	13,266
Halifax	65,890	35,661	30,229	Sussex	64,917	33,178	31,739
Hanover	14,418	12,116	2,302	Tazewell	350	0	350
Henrico	5,369	3,753	1,616	Virginia Beach	1,376	601	775
Henry	5,042	1,185	3,857	Warren	1,554	1,450	104
Highland	7,459	872	6,587	Washington	4,869	0	4,869
Isle of Wight	13,096	4,711	8,385	Westmoreland	3,564	1,016	2,548
James City	16,703	14,374	2,329	Wise	21,813	0	21,813
King and Queen	39,327	24,360	14,967	Wythe	1,197	0	1,197
King George	2,723	2,639	84	York	2,478	772	1,706
King William	15,495	12,642	2,853	All counties	2,219,411	1,164,520	1,054,891

^aCounties with no pulpwood production are omitted.

MILL CAPACITY (TONS PER DAY)

- LESS THAN 250
- 250 TO 499
- 500 TO 999
- 1000 TO 1499
- ▲ 1500 OR MORE
- MILL UNDER CONSTRUCTION

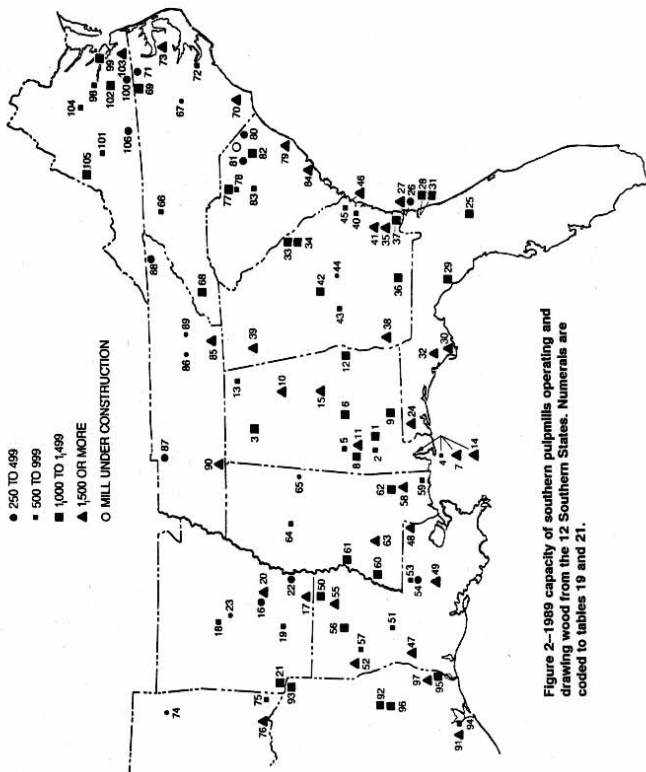


Figure 2-1989 capacity of southern pulp mills operating and drawing wood from the 12 Southern States. Numerals are coded to tables 19 and 21.

Table 19—Southern pulp mills, by process and capacity, 1989

Location	Map code ^a	Company	Pulping capacity, 24 hours ^b				
			All processes	Sulfate	Groundwood and other mechanical	Semi-chemical	Soda and sulfite
			Tons				
ALABAMA							
Claiborne	(1)	Alabama River Pulp Company	1,333	1,333	0	0	0
Jackson	(2)	Boise Cascade Paper Group	600	600	0	0	0
Courcland	(3)	Champion International Corporation	1,460	1,460	0	0	0
Mobile	(4)	GAF Corporation	30	0	50	0	0
Demopolis	(5)	Gulf States Paper Corporation	700	700	0	0	0
Selma	(6)	International Paper Company	1,285	1,285	0	0	0
Mobile	(7)	International Paper Company	1,500	1,200	300	0	0
Naheola	(8)	James River Corporation	1,250	1,250	0	0	0
Brewton	(9)	Jefferson Smurfit/GCA	1,300	1,300	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 Corporation	1,100	1,100	0	0	0
Stevenson	(13)	Mead Corporation	900	0	0	900	0
Mobile	(14)	Scott Paper Company	1,500	1,500	0	0	0
Montgomery	(15)	Union Camp Corporation	2,300	2,300	0	0	0
Total			19,002	16,228	1,290	1,484	0
ARKANSAS							
Pine Bluff	(16)	Gaylord Container Corporation	380	380	0	0	0
Crossett	(17)	Georgia-Pacific Corporation	1,500	1,500	0	0	0
Morrilton	(18)	Green Bay Packaging, Inc.	800	800	0	0	0
Camden	(19)	International Paper Company	750	750	0	0	0
Pine Bluff	(20)	International Paper Company	1,700	1,300	400	0	0
Ashdown	(21)	Nekoosa Papers, Inc.	1,355	1,355	0	0	0
McGehee	(22)	Potlatch Corporation	450	450	0	0	0
Little Rock	(23)	Superwood Corporation	140	0	140	0	0
Total			7,075	6,535	540	0	0
FLORIDA							
Cantonment	(24)	Champion International Corporation	1,560	1,560	0	0	0
Palatka	(25)	Georgia-Pacific Corporation	1,400	1,400	0	0	0
Fernandina Beach	(26)	I.T.T. Rayonier, Inc.	450	0	0	0	450
Fernandina Beach	(27)	Jefferson Smurfit Corporation/GCA	2,100	2,100	0	0	0
Jacksonville	(28)	Jefferson Smurfit Corporation	1,000	1,000	0	0	0
Perry	(29)	Proctor and Gamble Cellulose	1,100	1,100	0	0	0
Port St. Joe	(30)	St. Joe Forest Products 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			12,290	11,840	0	0	450
GEORGIA							
Augusta	(33)	Augusta Newsprint Company	1,200	0	1,200	0	0
Augusta	(34)	Federal Paper Board Company	1,000	600	400	0	0
Brunswick	(35)	Georgia-Pacific Corporation	2,000	2,000	0	0	0
Valdosta	(36)	Georgia-Pacific Corporation	1,075	1,075	0	0	0
St. Marys	(37)	Gilman Paper Company	1,200	1,200	0	0	0
Cedar Springs	(38)	Great Southern Paper Company	3,100	2,500	0	600	0
Rome	(39)	Inland-Rome, Inc.	2,200	2,200	0	0	0
Riceboro	(40)	Interstate Paper Corporation	680	680	0	0	0
Jesup	(41)	I.T.T. Rayonier, Inc.	1,725	1,725	0	0	0
Macon	(42)	Macon Kraft Company	1,000	1,000	0	0	0
Oglethorpe	(43)	Proctor and Gamble Cellulose	860	860	0	0	0
Dublin	(44)	Southeast Paper Mfg. Company	50	0	50	0	0
Fort Wentworth	(45)	Stone Container Corporation	875	875	0	0	0
Savannah	(46)	Union Camp Corporation	3,000	3,000	0	0	0
Total			19,965	17,715	1,650	600	0

Continued

Table 19—Southern pulp mills, by process and capacity, 1989—Continued

Location	Map code	Company	Pulping capacity, 24 hours ^b			
			All processes	Sulfate	Groundwood and other mechanical	Semi- and chemical sulfite
LOUISIANA						
DeLidder	(47)	Boise Cascade Corporation	2,250	1,305	945	0
Bogalusa	(48)	Gaylord Container Corporation	1,600	1,600	0	0
Port Hudson	(49)	Georgia-Pacific Corporation	1,850	1,850	0	0
Bayport	(50)	International Paper Company	1,100	1,100	0	0
Pineville	(51)	International Paper Company	985	985	0	0
Mansfield	(52)	International Paper Company	1,900	1,400	500	0
St. Francisville	(53)	James River Communication Papers	635	635	0	0
St. Francisville	(54)	James River Communication Papers	295	0	295	0
West Monroe	(55)	Manville Forest Products Corporation	2,000	1,600	0	400
Hodge	(56)	Stone Container Corporation	1,300	1,300	0	0
Campiti	(57)	Willamette Industries, Inc.	850	850	0	0
Total			14,765	12,625	1,240	900
MISSISSIPPI						
Monticello	(58)	Georgia-Pacific Corporation	2,600	2,600	0	0
Moss Point	(59)	International Paper Company	700	700	0	0
Natchez	(60)	International Paper Company	1,100	1,100	0	0
Vicksburg	(61)	International Paper Company	1,180	1,180	0	0
New Augusta	(62)	Leas River Forest Products	1,485	1,485	0	0
Laurel	(63)	Masonite Corporation	3,380	0	3,380	0
Grenada	(64)	Newprint South	670	0	670	0
Columbia	(65)	Weythaeuser Company	200	0	0	200
Total			11,315	7,065	4,050	200
NORTH CAROLINA						
Roaring River	(66)	Abitibi-Price Corporation	500	0	500	0
Goldboro	(67)	Caledex Corporation	100	0	100	0
Gaston	(68)	Champion International Corporation	1,480	1,480	0	0
Roanoke Rapids	(69)	Champion International Corporation	1,300	0	0	0
Riegelwood	(70)	Federal Paper Board Company, Inc.	2,200	2,200	0	0
Conway	(71)	Georgia-Pacific Corporation	1,400	0	400	0
New Bern	(72)	Weythaeuser Company	735	735	0	0
Plymouth	(73)	Weythaeuser Company	1,550	1,300	0	250
Total			8,255	7,005	1,000	250
OKLAHOMA						
Pryor	(74)	Georgia-Pacific Corporation	200	0	200	0
Broken Bow	(75)	Weythaeuser Company	920	0	920	0
Valiant	(76)	Weythaeuser Company	2,150	1,650	0	500
Total			3,270	1,650	1,120	500
SOUTH CAROLINA						
Catauba	(77)	Boaters Incorporated	1,335	1,125	210	0
Catauba	(78)	Catauba Newsprint Company	680	0	680	0
Georgetown	(79)	International Paper Company	1,713	1,613	0	100
Sellers	(80)	Masonite Corporation	1,450	0	450	0
Martinsville	(81)	Sonoco Products Company	300	0	0	300
Florence	(82)	Stone Container Corporation	1,400	1,400	0	0
Eastover	(83)	Union Camp Corporation	700	700	0	0
Charleston	(84)	Westvaco Corporation	2,435	2,435	0	0
Total			9,013	7,273	1,340	400

Continued

Table 19—Southern pulp mills, by process and capacity, 1989—Continued

Location	Map code ^a	Company	Pulping capacity, 24 hours ^b				
			All processes	Sulfate	Groundwood and other mechanical	Semi- chemical	Soda and sulfite
			Tons				
TENNESSEE							
Calhoun	(85)	Bowaters Southern Paper Corporation	2,490	690	1,800	0	0
Harriman	(86)	Clinch River Paper Company	200	0	0	200	0
New Johnsonville	(87)	Inland Container Corporation	400	0	0	400	0
Kingsport	(88)	Mead Corporation	325	0	0	0	325
Knoxville	(89)	Tamko Asphalt Products, Inc.	129	0	129	0	0
Counce	(90)	Tennessee River Pulp and Paper Company	1,700	1,700	0	0	0
Total			5,244	2,390	1,929	600	325
TEXAS							
Houston	(91)	Champion International Corporation	1,850	650	1,200	0	0
Lufkin	(92)	Champion International Corporation	1,200	400	800	0	0
Texarkana	(93)	International Paper Company	1,200	1,200	0	0	0
Pasadena	(94)	Simpson Pasadena Paper Company	800	800	0	0	0
Orange	(95)	Temple Inland Forest Products Corp.	1,200	1,200	0	0	0
Diboll	(96)	Temple Inland Forest Products Corp.	1,430	0	1,430	0	0
Evadale	(97)	Temple Inland Forest Products Corp.	1,500	1,500	0	0	0
Total			9,180	5,750	3,430	0	0
VIRGINIA							
Ashland	(98)	Bear Island Paper Company	620	0	620	0	0
West Point	(99)	Chesapeake Corporation	1,450	1,450	0	0	0
Jarratt	(100)	Georgia-Pacific Corporation	450	0	450	0	0
Big Island	(101)	Nekoosa Packaging Corporation	675	0	0	675	0
Hopewell	(102)	Stone Container Corporation	1,000	1,000	0	0	0
Franklin	(103)	Union Camp Corporation	1,950	1,950	0	0	0
Riverville	(104)	Virginia Fiber Corporation	600	0	0	600	0
Covington	(105)	Westvaco Corporation	1,400	1,200	0	200	0
Danville	(106)	Wood Fiber Industries	330	0	330	0	0
Total			8,475	5,600	1,400	1,475	0
Total South			127,849	101,676	18,989	6,409	775

^aCorresponds to numbers at locations on mill capacity map, page 24.^bLockwood-Post's Directory (1989) and other sources.

Table 20--Other mills using southern pulpwood in 1989, by process and capacity

Location	Company	Pulping capacity, 24 hours*				
		All processes	Sulfate	Groundwood and other mechanical	Semi- chemical	Soda and sulfite
<u>Tons</u>						
INDIANA						
Terre Haute	Weston Paper and Mfg. Co.	300	0	0	300	0
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
PENNSYLVANIA						
Spring Grove	P.H. Glatfelter Company	575	575	0	0	0

^aLockwood-Post's Directory (1989) and other sources.

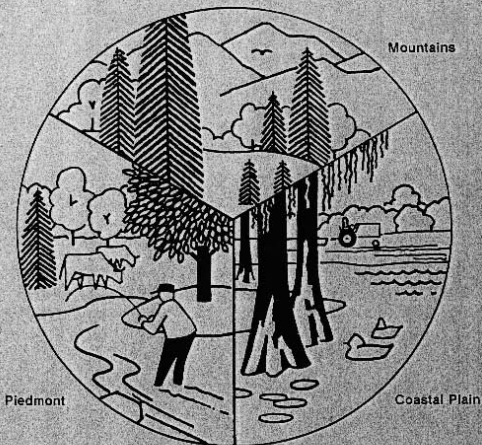
Table 21--Pulpmills under construction in the South

Location	Map code ^a	Company	Pulping capacity, 24 hours
<u>Tons</u>			
SOUTH CAROLINA			
Bennettsville	0	Willamette Industries	600

^aSymbol on mill capacity map, page 24.

The Forest Service, U.S. Department of Agriculture, is dedicated to the principle of multiple use management of the Nation's forest resources for sustained yields of wood, water, forage, wildlife, and recreation. Through forestry research, cooperation with the States and private forest owners, and management of the National Forests and National Grasslands, it strives—as directed by Congress—to provide increasingly greater service to a growing Nation.

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Southeastern Forest Experiment Station

Established 1921

The Southeastern Forest Experiment Station, headquartered in Asheville, North Carolina, is one of the eight regional Experiment Stations, and the Forest Products Laboratory, that make up the Forest Service research organization.

RESEARCH MISSION:

To acquire the knowledge, develop the technology, and disseminate the research findings required to manage the Southeast's forest resources in ways that satisfy demands of goods and services while maintaining a quality environment.

RESEARCH LOCATIONS:

Blacksburg, VA
Research Triangle Park, NC
Franklin, NC
Clemson, SC
Charleston, SC
Athens, GA
Macon, GA
Olustee/Gainesville, FL

EXPERIMENTAL FORESTS:

Chipola, Marianna, FL
Holt Walton, Vienna, GA
Cowetta, Otto, NC
Bent Creek, Asheville, NC
Santee, Moncks Corner, SC
Scul Shoals, Athens, GA
Hitchiti, Juliette, GA
Olustee, Olustee, FL