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Arkansas Forest Industries, 1977

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Southern 
Forest
Experiment
Station

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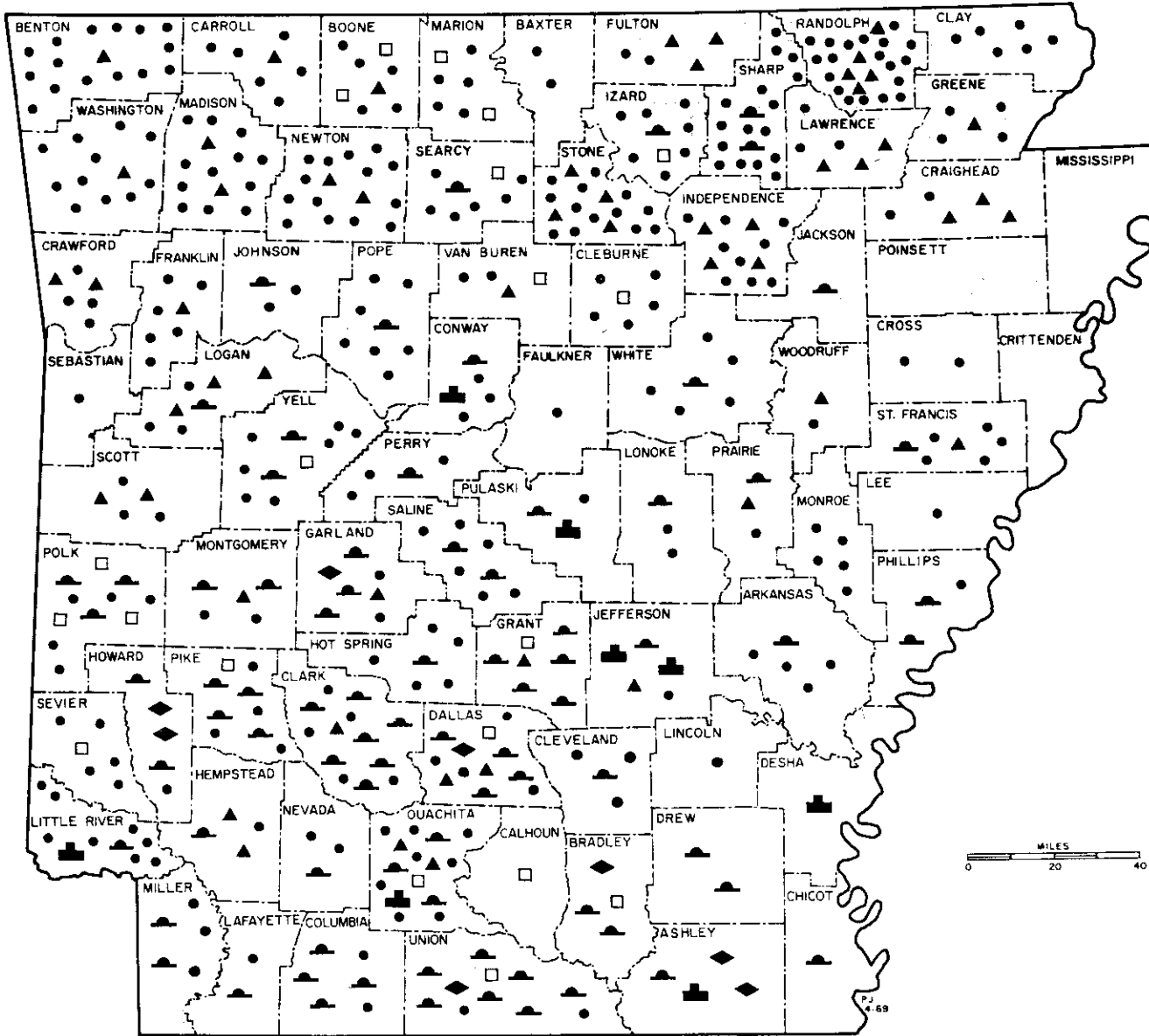
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New Orleans, La.
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1980



- POSTS, POLES, & PILING ◆ VENEER ▲ LARGE SAWMILLS
 ● SMALL SAWMILLS ■ PULPMILLS ▲ OTHER PLANTS

Primary wood-using plants in Arkansas, 1977.

Arkansas Forest Industries, 1977

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THE REPORT IN BRIEF

Arkansas forests supplied more than 516 million cubic feet of roundwood to forest industries in 1977. This is an increase of 15 percent since 1971 and an increase of 32 percent over the 1968 harvest. Softwoods, mainly pine, made up almost three-fourths of the total. Sawlogs and pulpwood were the major products, accounting for 88 percent of the harvest. Veneer logs added over 9 percent, and poles made up more than half of the remainder (fig. 1). A total of 473 primary wood using plants were in operation.

These are among the major findings of a canvass of all primary forest industries in Arkansas by personnel of the Arkansas Forestry Commission. Data were compiled and analyzed by the Renewable Resources Evaluation Unit of the Southern Forest Experiment Station. This report tabulates total production and shows softwood and hardwood output by county. Plant locations are mapped on page ii.

SAW LOGS

Arkansas produced over 1.6 billion board feet of saw logs in 1977. Softwood production increased 54 percent since 1968, while hardwood declined by 10 percent (fig. 2). Softwoods, mainly pine but including some cypress and redcedar, made up 74 percent of the total volume. Two-thirds of the hardwood saw logs were oak, and the gums accounted for another 18 percent.

A total of 384 sawmills were in operation in Arkansas in 1977. Eighty-one were classified as large mills, which individually cut more than 3 million board feet annually. Of these large mills, 33 produced more than 10 million board feet each. The large sawmills processed 90 percent of the lumber manufactured in Arkansas. More than 80 percent of their output was softwood, while more

than 79 percent of the logs sawn at the 303 small sawmills were hardwood. Production of individual mills ranged from 2,800 to over 150 million board feet. The average output per mill in 1977 was 4.6 million board feet.

PULPWOOD

Arkansas' harvest of round pulpwood in 1977 totaled 2.2 million cords, an increase of 45 percent since 1967 (fig. 3). Pine bolts accounted for two-thirds of the total. Oaks were the dominant hardwood species.

Construction of two new plants as well as expansion of existing facilities has almost doubled Arkansas' pulping capacity from 3,298 tons per day in 1967 to 6,050 tons in 1977. Individual pulping capacity at the eight mills ranges from 140 to 1,700 tons daily. The sulfate process is used for more than 90 percent of the wood that is pulped in the area.

In addition to roundwood, pulpmills used the equivalent of over 1.2 million cords of Arkansas wood processing plant byproducts. This volume represents 37 percent of the state's total pulpwood production. The use of plant byproducts has almost doubled in the past decade.

VENEER

Arkansas forest produced 310 million board feet of veneer logs in 1977, an increase of 37 percent over the 1968 harvest (fig. 4). Softwoods made up 97 percent of the volume harvested for veneer and plywood. Hardwood veneer production declined by almost 58 percent to 8.4 million board feet. This is a continuation of the trend throughout the Midsouth. Out of eight veneer plants operating in 1977, six produced pine plywood and two manufactured hardwood veneer.

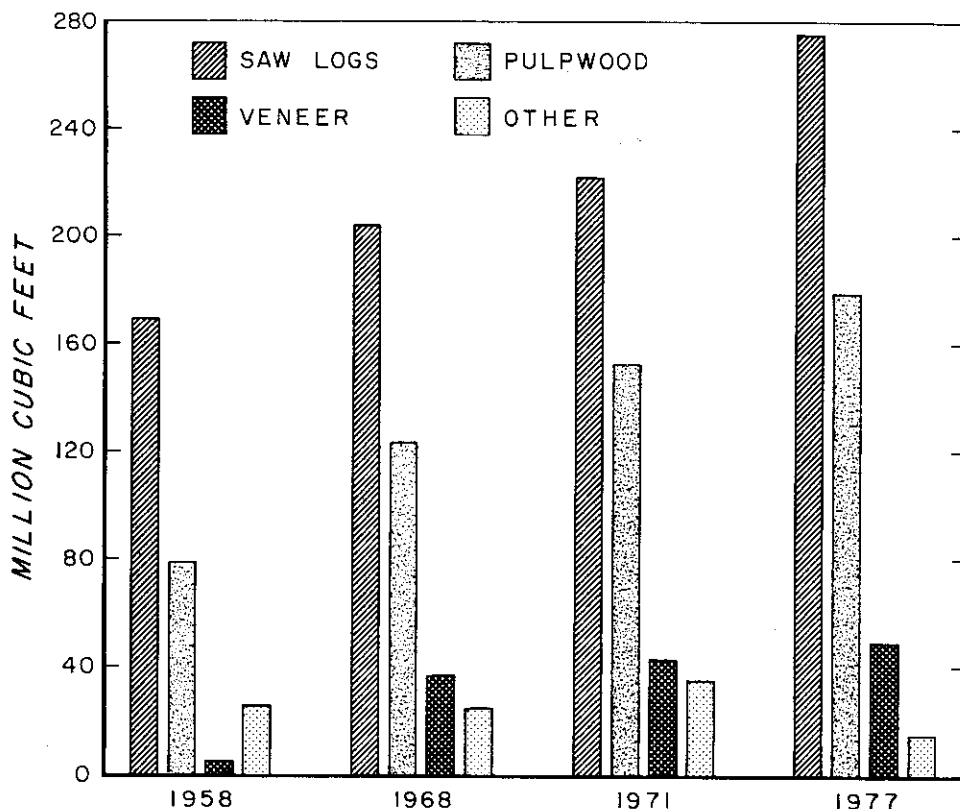


Figure 1.—Output of industrial roundwood, 1958-1977.

OTHER PRODUCTS

All other products accounted for less than 3 percent of the total Arkansas roundwood harvest. Over half of the volume was converted into poles, and the remainder went to such products as piling, posts, cooperage, handlestock, furniture stock, charcoal, excelsior, and other industrial items.

PLANT RESIDUES

In converting roundwood into primary products, Arkansas forest industries generated 173 million cubic feet of various wood residues.

Two-thirds of this volume was in coarse items, such as slabs, edgings, cull pieces, and other materials suitable for making pulp chips. The rest was comprised of finer particles, such as sawdust and shavings.

Forest industries converted 97 percent of their coarse wood residues and 84 percent of their fine wood residues into plant byproducts in 1977. Pulp chips for fiber were the prevalent use of coarse residues, and most of the fine residues were burned as fuel (fig. 5).

More than 103 million cubic feet of plant byproducts went into the production of pulp. Another 43 million cubic feet were burned for domestic and industrial fuel. Fifteen million cubic feet were used for miscellaneous purposes, such as studs, charcoal, animal bedding, and soil mulch.



Figure 2.—Softwood and hardwood saw log production, 1958-1977.

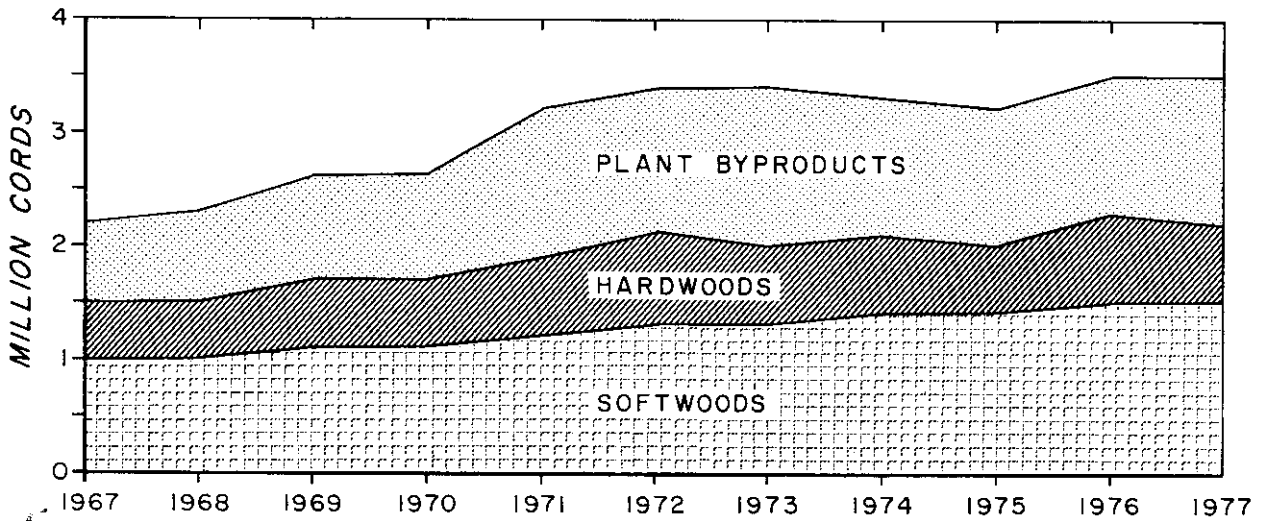


Figure 3.—Pulpwood production in Arkansas, 1967-1977.

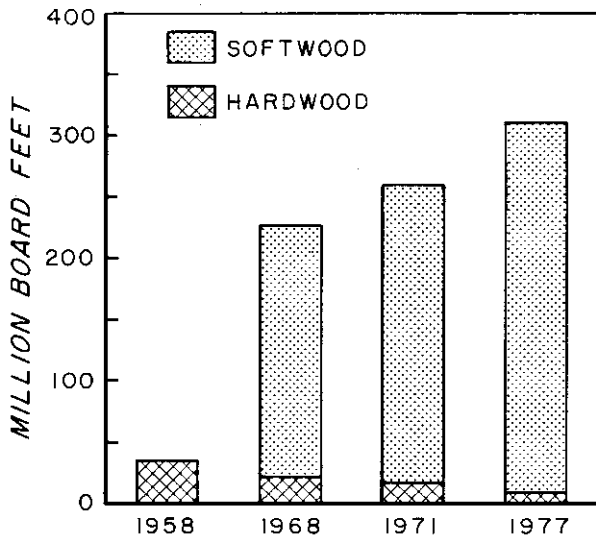


Figure 4.—Softwood and hardwood veneer log production, 1958-1977.

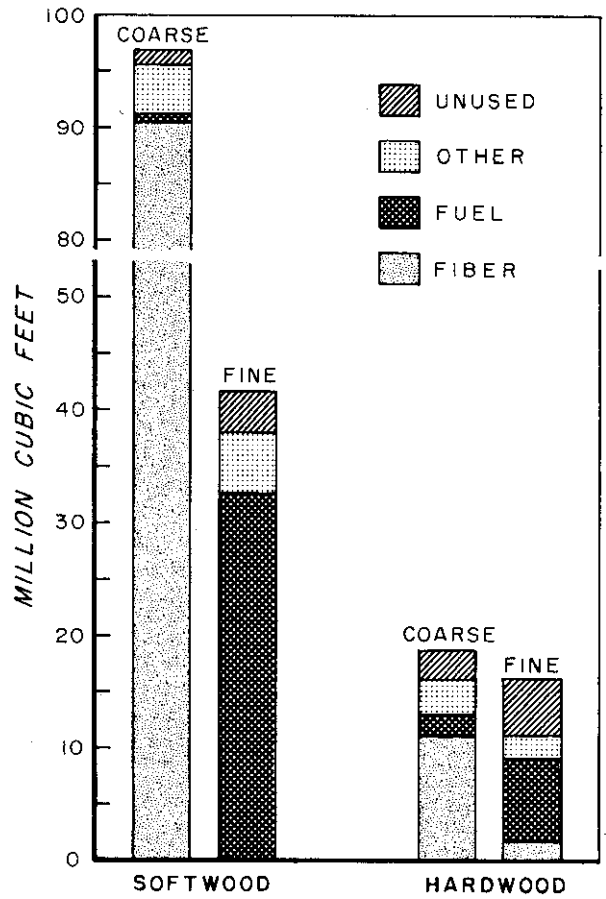


Figure 5.—Use of Arkansas plant residues, 1977.

Table 1.--Volume of industrial roundwood, 1977

Product	Volume in standard units				Roundwood volume		
	Standard units	All species	Softwood	Hardwood	All species	Softwood	Hardwood
----- M ft ³ -----							
Saw logs	M fbm ¹	1,620,676	1,213,992	406,684	274,788	205,286	69,502
Veneer logs	M fbm ¹	310,186	301,758	8,428	48,609	47,195	1,414
Pulpwood	Std. cords	2,220,196	1,454,603	765,593	179,070	117,823	61,247
Piling	M lin. ft.	43	43	...	32	32	...
Poles	M pieces	713	713	...	8,238	8,238	...
Posts	M pieces	4,195	4,110	85	2,362	2,307	55
Misc. products ²	M ft ³	3,777	589	3,188	3,777	589	3,188
Total					516,876	381,470	135,406

¹International ¼-inch rule.²Includes cooperage, handlestock, furniture stock, charcoal, excelsior, and misc. dimension.

Table 2.--Industrial roundwood by species group, 1977

Species group	Saw logs	Veneer logs	Pulpwood	Piling	Poles	Posts	Miscellaneous products
----- M fbm ¹ ----- Std. cords M lin.ft. - M pieces - M ft ³							
Softwood:							
Pines	1,207,075	301,758	1,454,603	43	713	4,026	132
Other softwood	6,917	...	...	...	...	84	457
Total	1,213,992	301,758	1,454,603	43	713	4,110	589
Hardwood:							
Oaks	275,142	5,604	560,619	...	...	75	1,126
Gums	72,774	1,292	34,043	...	...	...	242
Other hardwoods	58,768	1,532	170,931	...	...	10	1,820
Total	406,684	8,428	765,593	...	...	85	3,188
All species	1,620,676	310,186	2,220,196	43	713	4,195	3,777

¹International ¼-inch rule.

Table 3.--Residues produced by primary wood-using plants, 1977

Type of industry ¹	All species			Softwood			Hardwood		
	Total	Fine ²	Coarse ³	Total	Fine ²	Coarse ³	Total	Fine ²	Coarse ³
----- M ft ³ -----									
Lumber	137,383	54,790	82,593	104,224	39,183	65,041	33,159	15,607	17,552
Veneer	32,834	1,097	31,737	32,179	1,070	31,109	655	27	628
Piling, poles and posts	1,929	1,252	677	1,915	1,246	669	14	6	8
Miscellaneous products	1,548	903	645	277	166	111	1,271	737	534
All products	173,694	58,042	115,652	138,595	41,665	96,930	35,099	16,377	18,772

¹Excludes pulpwood industry.²Fine residues includes sawdust, and other material generally too small for chipping.³Coarse residues includes slabs, edgings, trimmings, and other material suitable for chipping.

Table 4.--Volume of primary plant byproducts, 1977

Industry source ¹	Type of use	All species	Softwood	Hardwood
----- M ft ³ -----				
Lumber	Fuel ²	40,725	31,781	8,944
	Fiber ³	75,318	63,131	12,187
	Other ⁴	10,723	6,007	4,716
	Total	126,766	100,919	25,847
Veneer	Fuel	1,092	1,070	22
	Fiber	27,837	27,328	509
	Other	3,781	3,781	...
	Total	32,710	32,179	531
Piling, poles and posts	Fuel	449	449	...
	Fiber	131	131	...
	Other	...	...	...
	Total	580	580	...
Miscellaneous industries	Fuel	506	80	426
	Fiber	104	...	104
	Other	308	1	307
	Total	918	81	837
All industries	Fuel	42,772	33,380	9,392
	Fiber	103,390	90,590	12,800
	Other	14,812	9,789	5,023
	Total	160,974	133,759	27,215

¹Excludes pulpwood industry.

²Includes all residues used as industrial and domestic fuel.

³Includes all residues used in manufacture of fiber products, such as pulp or hardboard.

⁴Includes residues used as animal bedding, mulch, particle board, and specialty items.

Table 5.--Movement of industrial roundwood by product, 1977

Product	Standard units	Out of State receipts	Logged and remained in State	Logged and shipped out of State	Total receipts	Total production
----- Standard units -----						
Saw logs	M fbm ¹	158,608	1,609,290	11,387	1,767,898	1,620,667
Veneer	M fbm ¹	57,138	296,588	13,598	353,726	310,186
Pulpwood	Std. cords	205,882	1,602,074	618,122	1,807,956	2,220,196
Piling	M linear ft.	10	43	...	53	43
Poles	M pieces	68	667	46	735	713
Posts	M pieces	3,521	4,191	4	7,712	4,195
Misc. products	M ft ³	168	3,777	...	3,945	3,777

¹International 1/2-inch rule.

Table 6.--Saw log production by county, 1977

County	All species	Softwood	Hardwood	County	All species	Softwood	Hardwood
----- M fbm ² -----				----- M fbm ² -----			
Arkansas	12,565	...	12,565	Little River	22,918	19,373	3,545
Ashley	9,620	2,604	7,016	Logan	17,969	17,671	298
Baxter	1,977	1,036	941	Lonoke	1,526	...	1,526
Benton	2,452	...	2,452	Madison	11,377	1,616	9,761
Boone	725	47	678	Marion	1,893	566	1,327
Bradley	121,310	105,245	16,065	Miller	16,404	11,864	4,540
Calhoun	31,135	20,425	10,710	Mississippi	559	...	559
Carroll	1,756	578	1,178	Monroe	13,591	1,264	12,327
Chicot	838	31	807	Montgomery	46,864	42,294	4,570
Clark	114,598	98,186	16,412	Nevada	60,298	45,096	15,202
Clay	739	...	739	Newton	11,939	1,733	10,206
Cleburne	6,804	5,159	1,645	Ouachita	83,888	58,930	24,958
Cleveland	58,107	38,514	19,593	Perry	37,781	35,882	1,899
Columbia	35,229	25,872	9,357	Phillips	6,000	...	6,000
Conway	9,152	8,043	1,109	Pike	62,752	57,613	5,139
Craighead	1,862	39	1,823	Poinsett	1,521	...	1,521
Crawford	1,104	66	1,038	Polk	24,472	23,417	1,055
Crittenden	1,785	14	1,771	Pope	18,970	17,152	1,818
Cross	1,501	...	1,501	Prairie	2,580	...	2,580
Dallas	44,908	30,402	14,506	Pulaski	13,947	12,601	1,346
Desha	11,010	780	10,230	Randolph	9,890	781	9,109
Drew	24,805	12,962	11,843	St. Francis	4,503	11	4,492
Faulkner	1,401	23	1,378	Saline	47,174	35,090	12,084
Franklin	6,682	5,961	721	Scott	34,835	34,710	125
Fulton	1,866	627	1,239	Searcy	6,108	226	5,882
Garland	58,197	55,063	3,134	Sebastian	333	312	21
Grant	52,266	34,263	18,003	Sevier	6,863	4,691	2,172
Greene	2,145	647	1,498	Sharp	10,291	1,716	8,575
Hempstead	46,488	41,267	5,221	Stone	7,895	3,002	4,893
Hot Spring	50,446	46,539	3,907	Union	104,581	89,799	14,782
Howard	8,969	6,002	2,967	Van Buren	13,137	12,417	720
Independence	5,778	1,681	4,097	Washington	5,169	188	4,981
Izard	10,483	5,464	5,019	White	6,179	904	5,275
Jackson	1,806	156	1,650	Woodruff	5,839	839	5,000
Jefferson	29,808	23,350	6,458	Yell	74,287	73,325	962
Johnson	10,460	9,424	1,036	All counties	1,620,676	1,213,992	406,684
Lafayette	23,023	22,314	709				
Lawrence	1,680	141	1,539				
Lee	11,727	...	11,727				
Lincoln	9,136	5,984	3,152				

¹International 1/4-inch rule.

Table 7.--Saw log movement, 1977

County ¹	Logged and remained in county	Outgoing shipments	Incoming shipments	Total log receipts
----- M fbm ² -----				
Arkansas	11,092	1,473	883	11,975
Benton	2,452	...	125	2,577
Boone	621	104	275	896
Carroll	805	951	22	827
Clark	41,260	73,338	57,711	98,971
Clay	739	...	2,303	3,042
Cleburne	2,343	4,461	1,117	3,460
Cleveland	6,543	51,564	5,573	12,116
Columbia	23,068	12,161	91,841	114,909
Conway	3,826	5,326	27,439	31,265
Crawford	948	156	...	948
Dallas	21,430	23,478	26,431	47,861
Franklin	400	6,282	156	556
Garland	6,741	51,456	32,641	39,382
Grant	35,185	17,081	88,916	124,101
Greene	1,112	1,033	...	1,112
Hot Spring	11,690	38,756	17,367	29,057
Howard	2,182	6,787	155,044	157,226
Independence	4,279	1,499	2,457	6,736
Izard	10,483	...	1,678	12,161
Johnson	1,184	9,276	3,855	5,039
Lawrence	1,680	...	1,495	3,175
Little River	13,963	8,955	191	14,154
Logan	2,199	15,770	4,701	6,900
Lonoke	1,526	...	5,906	7,432
Madison	5,188	6,189	780	5,968
Marion	993	900	20	1,013
Miller	6,002	10,402	6,028	12,030
Monroe	1,232	12,359	1,869	3,101
Montgomery	17,275	29,589	12,062	29,337
Nevada	16,012	44,286	34,373	50,385
Newton	7,492	4,447	495	7,987
Ouachita	48,021	35,867	34,198	82,219
Perry	1,446	36,335	2,094	3,540
Phillips	5,197	803	17,023	22,220
Pike	36,023	26,729	60,251	96,274
Polk	10,208	14,264	11,007	21,215
Pope	10,042	8,928	43,372	53,414
Randolph	9,036	854	573	9,609
St. Francis	2,859	1,644	4,808	7,667
Saline	9,950	37,224	19,613	29,563
Scott	671	34,164	...	671
Searcy	6,108	...	7,293	13,401
Sevier	1,757	5,106	1,849	3,606
Sharp	8,270	2,021	...	8,270
Stone	4,117	3,778	805	4,922

Table 7.--Saw log movement, 1977--Continued

County ¹	Logged and remained in county	Outgoing shipments	Incoming shipments	Total log receipts
----- M fbm ² -----				
Union	86,052	18,529	88,654	174,706
Washington	5,169	...	...	5,169
White	5,611	568	2,313	7,924
Yell	31,792	42,495	32,133	63,925
All other counties	158,036	210,978	155,848	313,884
All counties	702,310	918,366	1,065,588	1,767,898

¹Counties with less than three sawmills are combined²International ¼-inch rule.

Table 8.--Round pulpwood production, 1977

County ¹	All species	Softwood	Hardwood	County ¹	All species	Softwood	Hardwood
----- Standard cords -----				----- Standard cords -----			
Arkansas	246	202	77	Lincoln	80,193	38,519	41,674
Ashley	209,270	96,946	112,324	Little River	95,787	59,283	36,504
Boone	1	...	1	Logan	13,027	9,578	3,449
Bradley	16,831	16,174	657	Miller	43,443	26,702	16,741
Calhoun	51,724	42,969	8,755	Monroe	16	6	10
Chicot	8,742	3	8,739	Montgomery	16,542	13,793	2,749
Clark	53,875	38,965	14,910	Nevada	97,937	78,689	19,248
Cleburne	18,411	14,682	3,729	Newton	42	36	6
Cleveland	86,342	57,013	29,329	Ouachita	40,563	24,118	16,445
Columbia	132,660	111,220	21,440	Perry	4,130	2,350	1,780
Conway	11,344	7,706	3,638	Phillips	688	...	688
Crawford	3	...	3	Pike	107,167	86,108	21,059
Crittenden	1,562	...	1,562	Polk	36,811	18,935	17,876
Dallas	63,488	42,380	21,108	Pope	19,727	12,223	7,504
Desha	8,083	17	8,066	Prairie	24	...	24
Drew	117,285	43,013	74,274	Pulaski	51,004	23,125	27,879
Faulkner	1,319	1,166	153	Saline	68,912	44,042	24,870
Franklin	2,553	2,153	400	Scott	25,987	20,871	5,116
Fulton	4	4	...	Searcy	118	118	...
Garland	69,473	63,775	5,698	Sebastian	1,677	1,547	130
Grant	111,351	60,041	51,310	Sevier	34,697	19,894	14,803
Greene	5	5	...	Sharp	33	26	7
Hempstead	64,134	44,309	19,825	Stone	2,004	1,336	668
Hot Spring	41,270	27,537	13,733	Union	89,611	67,540	22,071
Howard	166,270	124,323	41,947	Van Buren	9,008	6,423	2,585
Independence	7,923	6,297	1,626	White	10,779	7,934	2,845
Izard	252	234	18	Yell	28,583	21,259	7,324
Jackson	76	53	23	All counties	2,220,196	1,454,603	765,593
Jefferson	39,752	27,850	11,902				
Johnson	6,386	4,000	2,386				
Lafayette	50,131	36,191	13,940				
Lee	920	920	...				

¹Counties with negligible output are omitted.

Table 9.--Veneer log production by county, 1977

County ¹	All species	Softwood	Hardwood
	----- M fbm ² -----		
Ashley	103,757	103,073	684
Bradley	1,366	...	1,366
Calhoun	13,957	13,957	...
Clark	4,310	4,310	...
Cleveland	37,604	36,238	1,366
Columbia	4,683	4,683	...
Dallas	34,948	34,948	...
Drew	44,520	41,787	2,733
Garland	6,299	6,299	...
Grant	2,270	2,270	...
Hot Spring	1,557	1,557	...
Howard	191	...	191
Independence	178	178	...
Jefferson	822	822	...
Lafayette	6,059	6,059	...
Lincoln	1,093	410	683
Miller	1,625	348	1,277
Monroe	184	184	...
Montgomery	1,404	1,404	...
Nevada	125	125	...
Perry	1,449	1,449	...
Pike	128	...	128
Pulaski	84	84	...
Saline	2,970	2,970	...
Scott	736	736	...
Union	34,544	34,544	...
Yell	3,323	3,323	...
All counties	310,186	301,758	8,428

¹Counties with negligible output are omitted.

²International 1/4-inch rule.

Table 10.--Post, pole, and piling production by county, 1977

County ¹	All species	County	All species
	-- M ft ² --		-- M ft ² --
Baxter	37	Marion	20
Boone	17	Miller	82
Bradley	162	Nevada	27
Calhoun	13	Newton	9
Carroll	1	Ouachita	39
Clark	87	Pike	848
Cleburne	33	Polk	4,158
Dallas	153	Pope	10
Franklin	8	Pulaski	99
Garland	99	Saline	98
Grant	112	Scott	297
Hot Spring	122	Searcy	39
Howard	1,672	Sevier	846
Independence	1	Stone	58
Izard	57	Union	134
Johnson	55	Van Buren	25
Lafayette	115	Yell	891
Little River	208	All counties	10,632

¹Counties with negligible output are omitted.

Table 11. --Output of miscellaneous products by county, 1977

County ¹	All species	Softwood	Hardwood	County	All species	Softwood	Hardwood
----- M ft ³ -----				----- M ft ³ -----			
Arkansas	17	...	17	Lawrence	92	13	79
Ashley	6	...	6	Lee	3	...	3
Baxter	2	...	2	Lincoln	4	...	4
Benton	45	...	45	Logan	103	2	101
Boone	13	...	13	Madison	743	44	699
Bradley	6	...	6	Monroe	162	...	162
Calhoun	4	...	4	Montgomery	26	26	...
Clark	397	365	32	Nevada	7	...	7
Clay	21	...	21	Newton	40	...	40
Cleveland	27	...	27	Ouachita	108	...	108
Columbia	33	...	33	Phillips	3	...	3
Craighead	86	7	79	Pike	3	...	3
Crawford	55	2	53	Poinsett	9	3	6
Cross	25	...	25	Prairie	33	...	33
Dallas	182	...	182	Randolph	126	...	126
Desha	6	...	6	St. Francis	3	...	3
Drew	6	...	6	Scott	48	32	16
Franklin	123	1	122	Searcy	21	...	21
Fulton	41	...	41	Sebastian	49	22	27
Garland	15	15	...	Sevier	29	...	29
Grant	422	...	422	Sharp	17	...	17
Greene	90	6	84	Stone	31	...	31
Hempstead	29	...	29	Van Buren	2	...	2
Hot Spring	95	45	50	Washington	107	...	107
Howard	20	...	29	White	11	...	11
Independence	18	6	12	Woodruff	5	...	5
Izard	5	...	5	All counties	3,777	589	3,188
Jackson	3	...	3				
Jefferson	191	...	191				

¹Counties with negligible output are omitted.

Table 12.--Industrial roundwood production by county, 1977

County	All species	Softwood	Hardwood	County	All species	Softwood	Hardwood
----- M ft ³ -----				----- M ft ³ -----			
Arkansas	2,184	16	2,168	Little River	11,812	8,286	3,526
Ashley	34,719	24,414	10,305	Logan	4,194	3,766	428
Baxter	375	212	163	Lonoke	261	...	261
Benton	464	...	464	Madison	2,685	313	2,367
Boone	154	25	129	Marion	342	115	227
Bradley	22,302	19,269	3,033	Miller	6,635	4,305	2,330
Calhoun	11,665	9,130	2,535	Mississippi	96	...	96
Carroll	299	98	201	Monroe	2,513	243	2,270
Chicot	843	6	837	Montgomery	9,516	8,515	1,001
Clark	24,916	20,886	4,030	Nevada	18,191	14,036	4,155
Clay	147	...	147	Newton	2,089	305	1,784
Cleburne	2,673	2,094	579	Ouachita	17,647	11,953	5,694
Cleveland	22,749	16,798	5,951	Perry	6,952	6,485	467
Columbia	17,464	14,116	3,348	Phillips	1,083	...	1,083
Conway	2,465	1,984	481	Pike	20,153	17,565	2,588
Craighead	405	14	391	Poinsett	269	3	266
Crawford	243	13	230	Polk	11,262	9,652	1,610
Crittenden	430	2	428	Pope	4,811	3,900	911
Cross	282	...	282	Prairie	476	...	476
Dallas	18,542	14,193	4,349	Pulaski	6,576	4,116	2,460
Desha	2,532	133	2,399	Randolph	1,815	132	1,683
Drew	20,641	12,211	8,430	St. Francis	772	2	770
Faulkner	346	98	248	Saline	14,119	10,064	4,055
Franklin	1,469	1,192	277	Scott	8,451	8,004	447
Fulton	359	106	253	Searcy	1,112	48	1,064
Garland	16,567	15,575	992	Sebastian	241	200	41
Grant	18,727	11,124	7,603	Sevier	4,835	3,251	1,584
Greene	456	116	340	Sharp	1,776	293	1,483
Hempstead	13,074	10,567	2,507	Stone	1,593	673	920
Hot Spring	12,327	10,510	1,817	Union	30,486	26,194	4,292
Howard	16,681	12,757	3,924	Van Buren	2,977	2,645	332
Independence	1,672	829	843	Washington	990	32	958
Izard	1,864	1,000	864	White	1,936	796	1,140
Jackson	318	31	287	Woodruff	1,002	142	860
Jefferson	8,580	6,333	2,247	Yell	16,282	15,532	750
Johnson	2,341	1,973	368	All counties	515,876	381,470	135,406
Lafayette	9,004	7,768	1,236				
Lawrence	378	36	342				
Lee	2,081	74	2,007				
Lincoln	8,188	4,196	3,992				

Table 13.-- Plant byproducts by county, 1977

County ¹	All species		Softwood		Hardwood	
	Fine	Coarse	Fine	Coarse	Fine	Coarse
	----- M ft ³ -----					
Arkansas	131	218	...	...	131	218
Benton	99	133	...	...	99	133
Boone	40	55	28	18	12	37
Carroll	13	17	6	7	7	10
Clark	2,870	4,583	1,637	3,115	1,233	1,468
Clay	76	120	4	8	72	112
Cleburne	114	168	60	99	54	69
Cleveland	13	468	...	...	13	468
Columbia	3,296	5,331	3,075	5,229	221	102
Conway	484	1,552	484	1,527	...	25
Crawford	64	68	...	...	64	68
Dallas	1,820	9,773	1,019	9,086	801	687
Franklin	11	31	5	10	6	21
Garland	998	2,646	805	2,208	193	438
Grant	3,793	5,990	2,838	4,786	955	1,204
Greene	22	17	...	2	22	15
Hot Spring	833	1,413	773	1,314	60	99
Howard	4,461	8,527	4,188	7,981	273	546
Independence	2	321	...	43	2	278
Izard	179	425	107	236	72	189
Johnson	123	103	25	42	98	61
Lawrence	...	141	...	...	...	141
Little River	294	562	248	484	46	78
Logan	103	341	96	332	7	9
Lonoke	201	316	36	62	165	254
Madison	254	302	10	16	244	286
Marion	3	33	3	16	...	17
Miller	216	373	216	368	...	5
Monroe	67	64	...	...	67	64
Montgomery	800	1,422	736	1,345	64	77
Nevada	1,455	2,490	1,455	2,474	...	16
Newton	54	362	...	2	54	360
Ouachita	2,428	3,688	1,582	2,687	846	1,001
Perry	...	53	...	...	...	53
Phillips	787	831	...	...	787	831
Pike	1,664	4,524	1,655	4,524	9	...
Polk	615	1,038	605	1,030	10	8
Pope	1,470	2,613	1,460	2,512	10	101
Prairie	...	216	...	...	...	216
St. Francis	252	300	...	...	252	300
Saline	828	1,452	828	1,425	...	27
Searcy	237	584	6	118	231	466
Sevier	397	290	314	163	83	127
Sharp	49	343	...	78	49	265
Stone	174	197	21	6	153	191
Union	5,377	11,328	4,283	10,204	1,094	1,124

Table 13.-- Plant byproducts by county, 1977 --Continued

County ¹	All species		Softwood		Hardwood	
	Fine	Coarse	Fine	Coarse	Fine	Coarse
----- M ft ³ -----						
Washington	187	254	6	10	181	244
White	169	342	20	48	149	294
Yell	1,742	3,139	1,728	3,112	14	27
All other counties	9,762	32,390	7,618	29,052	2,144	3,338
All counties	49,027	111,947	37,980	95,779	11,047	16,168

¹Omitted counties have either negligible volume or less than three plants.

Table 14.--Unused plant residues by county, 1977

County ¹	All species		Softwood		Hardwood	
	Fine	Coarse	Fine	Coarse	Fine	Coarse
----- M ft ³ -----						
Arkansas	302	302	...	...	302	302
Benton	6	1	...	...	6	1
Boone	23	4	2	1	21	3
Carroll	27	29	24	27	3	2
Clark	419	67	256	...	163	67
Clay	34	22	1	...	33	22
Cleburne	9	6	9	6	...	...
Cleveland	427	32	...	1	427	31
Columbia	119	263	...	...	119	263
Conway	434	...	415	...	19	...
Crawford	21	10	2	1	19	9
Dallas	129	266	53	11	76	255
Franklin	11	...	1	...	10	...
Garland	274	76	59	76	215	...
Grant	240	...	...	...	240	...
Greene	53	78	7	8	46	70
Hot Spring	31	16	...	...	31	16
Howard	261	119	15	...	246	119
Independence	247	4	27	...	220	4
Izard	239	147	104	86	135	61
Johnson	50	109	42	59	8	50
Lawrence	123	13	7	8	116	5
Little River	145	126	111	102	34	24
Logan	99	...	99	...	...	...
Lonoke	63	...	...	...	63	...
Marion	33	16	18	13	15	3
Miller	166	177	...	...	166	177
Monroe	45	78	...	...	45	78
Montgomery	75	27	63	7	12	20

Table 14.--Unused plant residues by county, 1977--Continued

County ¹	All species		Softwood		Hardwood	
	Fine	Coarse	Fine	Coarse	Fine	Coarse
	----- M ft ³ -----					
Nevada	14	2	...	...	14	2
Newton	238	12	1	...	237	12
Ouachita	200	148	4	2	196	146
Perry	124	86	18	26	106	60
Phillips	37	42	...	...	37	42
Pike	1,198	239	1,081	80	117	159
Polk	392	236	391	231	1	5
Pope	103	22	24	9	79	13
Prairie	270	68	...	...	270	68
St. Francis	46	24	...	...	46	24
Saline	38	8	14	4	24	4
Scott	36	40	32	34	4	6
Searcy	243	15	71	9	172	6
Sevier	286	183	249	156	37	27
Sharp	240	7	49	5	191	2
Stone	5	31	...	25	5	6
Union	82	126	14	9	68	117
Washington	31	8	...	...	31	8
White	114	7	9	1	105	6
Yell	245	83	224	66	21	17
All other counties	968	330	189	88	779	242
All counties	9,015	3,705	3,685	1,151	5,330	2,554

¹Omitted counties have either negligible volume or less than three plants.

Table 15. --Bark used and unused by county, 1977¹

County ²	All species		Softwood		Hardwood	
	Used	Unused	Used	Unused	Used	Unused
----- Green tons -----						
Arkansas	3,025	3,861	...	...	3,025	3,861
Benton	1,619	8	...	...	1,619	8
Boone	2,221	178	1,756	138	465	40
Carroll	176	328	50	296	126	32
Chicot	3,781	...	...	...	3,781	...
Clay	262	1,457	12	43	250	1,414
Cleburne	1,041	1,030	185	1,030	856	...
Cleveland	995	5,969	...	5	995	5,964
Columbia	32,029	12,067	30,701	8,076	1,328	3,991
Conway	11,585	...	11,278	...	307	...
Crawford	976	178	...	22	976	156
Dallas	42,970	14,432	32,474	11,064	10,496	3,368
Franklin	316	...	70	...	246	...
Garland	19,994	631	13,610	631	6,384	...
Grant	53,362	3,234	37,254	...	16,108	3,234
Greene	188	860	16	66	172	794
Hot Spring	10,973	210	9,748	...	1,225	210
Howard	64,406	862	56,386	...	8,020	862
Independence	3,770	127	315	...	3,455	127
Izard	4,030	2,522	1,669	1,599	2,361	923
Johnson	1,643	800	...	800	1,643	...
Lawrence	1,745	225	...	77	1,745	148
Little River	4,506	1,146	3,541	844	965	302
Logan	2,568	5	2,456	5	12	...
Lonoke	4,013	...	459	...	3,554	...
Madison	4,127	...	115	...	4,012	...
Marion	327	364	116	329	211	35
Miller	2,792	2,579	2,728	...	64	2,579
Monroe	788	996	...	...	788	996
Montgomery	9,556	1,733	8,601	1,478	955	255
Nevada	199	18,373	...	18,349	199	24
Newton	4,710	...	17	...	4,693	...
Ouachita	34,295	2,294	19,945	269	14,350	2,025
Perry	788	1,117	...	229	788	888
Phillips	12,239	537	...	...	12,239	537
Pike	34,569	3,136	34,569	1,108	...	2,028
Polk	7,411	19,946	7,311	19,877	100	69
Pope	16,203	3,914	14,948	3,746	1,255	168
Randolph	3,836	1,987	339	62	3,497	1,925

Table 15.--Bark used and unused by county, 1977¹--Continued

County ²	All species		Softwood		Hardwood	
	Used	Unused	Used	Unused	Used	Unused
----- Green tons -----						
St. Francis	984	3,603	...	...	984	3,603
Saline	10,902	88	10,564	37	338	51
Scott	...	571	...	499	...	72
Searcy	7,117	350	831	75	6,286	275
Sevier	22,850	11,943	21,314	11,566	1,536	377
Sharp	4,340	63	581	40	3,759	23
Stone	2,421	316	46	207	2,375	109
Union	81,010	3,589	64,454	2,097	16,556	1,492
Washington	3,447	98	69	...	3,378	98
White	4,278	80	346	4	3,932	76
Yell	22,263	8,213	21,927	7,996	336	217
All other counties	239,550	16,246	188,065	2,445	51,485	13,801
All counties	803,196	152,266	598,866	95,109	204,330	57,157

¹Excludes pulpwood bark.²Counties with less than three plants are omitted.

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Surveys and analyzes total production of softwood and hard-
wood output by county in Arkansas during 1977.