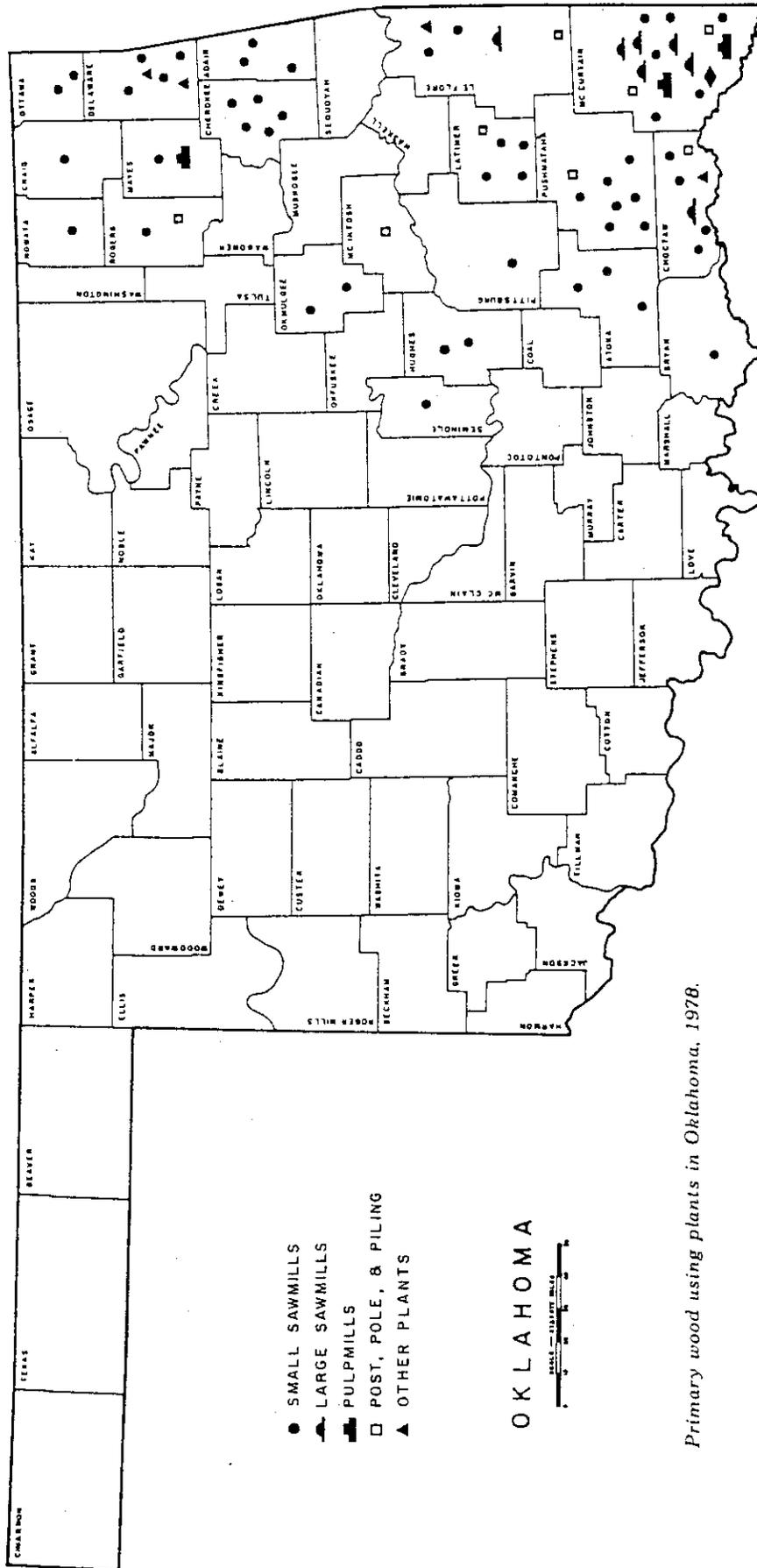


SO-78

Oklahoma Forest Industries, 1978

Victor A. Rudis, and J. Greg Jones



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THE REPORT IN BRIEF

Oklahoma supplied 73 million cu ft of roundwood to forest industries in 1978, an increase of 13 percent since 1972, and 35 percent since 1975 (fig. 1). Pine made up four-fifths of the total. Sawlogs and pulpwood were the major products, accounting for 81 percent of the roundwood produced. Veneer logs accounted for 8 percent and the remainder was mostly posts.

Four southeastern counties: Choctaw, LeFlore, McCurtain, and Pushmataha, produced 94 percent of the total output. McCurtain County, which has the most wood using plants, is responsible for nearly half of total production.

Some 81 wood-using plants were operating in 1978 compared with 101 in 1975 and 118 in 1972. The majority of these mills are in the eastern third of the State (see map).

These are the major findings of a new canvass of all primary forest industries in Oklahoma for calendar 1978. The canvass was conducted by personnel at the Department of Forestry, Oklahoma State University-Stillwater, under the supervision of Dr. J. Greg Jones. Data were compiled and analyzed by the Renewable Resources Unit of the Southern Forest Experiment Station.

Results of previous statewide surveys are contained in *Oklahoma Forest Industries, 1972* (RB-SO-45) and *Oklahoma Forest Industries, 1975* (RB-SO-64), available from the Southern Forest Experiment Station.

SAWLOGS

Oklahoma's forest produced 189 million board feet of sawlogs in 1978, a decline of 2 percent since 1975. Softwoods made up 80 percent of the total volume. Oaks accounted for the majority of the hardwood volume.

The number of sawmills in the State has continued to decline since the initial statewide survey in 1972 recorded 103 sawmills in operation. Later surveys recorded 83 operating sawmills in 1975 and only 66 in 1978. Production by large mills (i.e., those cutting at least 3 million boardfeet annually) increased from 83 percent of total sawlogs receipts in 1972 to 87 percent in 1975. In 1978, nine large mills processed 90 percent of the lumber. Large sawmill production was 86 percent softwood, while small sawmill productions was 84 percent hardwoods.

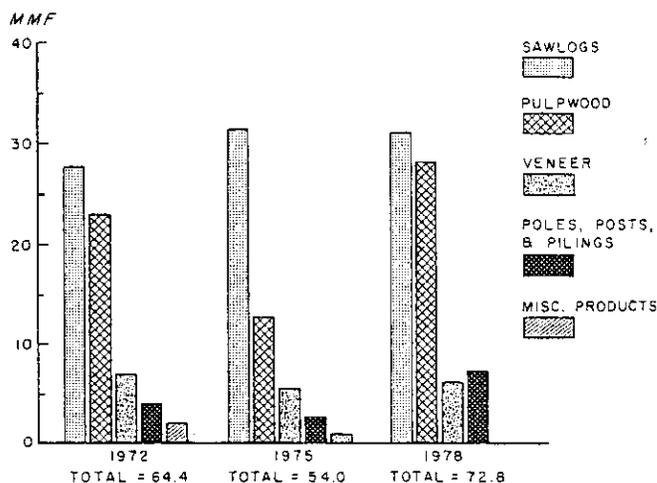


Figure 1.—Output of industrial roundwood 1972-1978.

Oklahoma imported 61 million bd ft of sawlogs in 1978, and exported at least 4 million bd ft to surrounding states. Over 40 percent of the sawlogs cut within the State were transported over county lines before being sawn into lumber.

THOUSAND CORDS

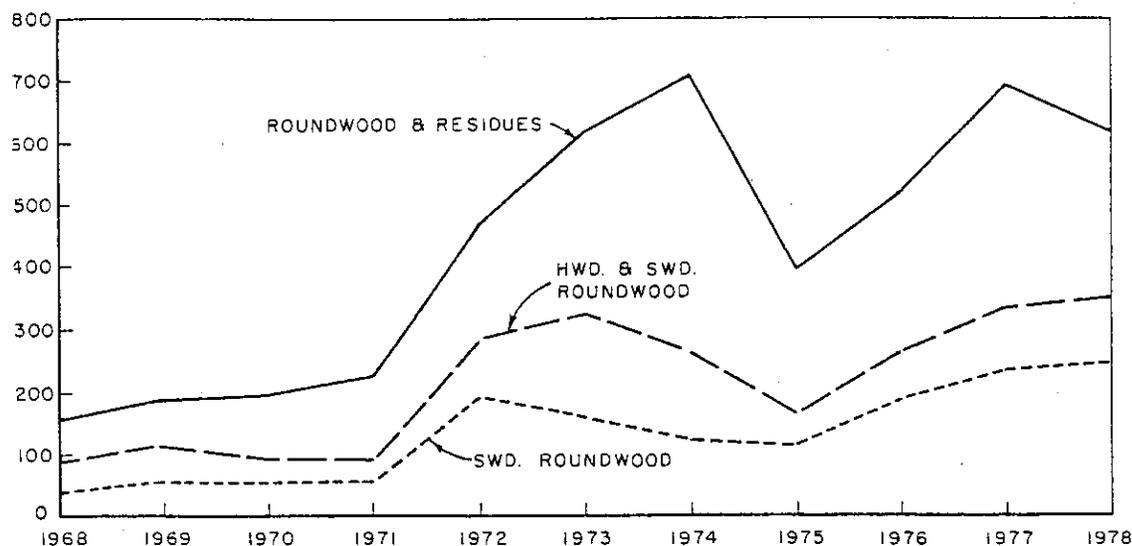


Figure 2.—Pulpwood production in Oklahoma, 1968-1978.

PULPWOOD

Oklahoma's roundwood used for pulp production increased fourfold from 90,000 cords in 1968 to 349,000 cords in 1978. While pulpwood production has varied in the past decade, production has increased annually since 1975 (fig. 2).

Softwoods (pines exclusively) comprised 70 percent of the total pulpwood harvested compared with 45 percent in 1968. Oaks and other hardwoods have continued to be the main components of hardwood pulpwood production.

Expansion of existing facilities increased Oklahoma's pulping capacity from 465 tons per day in 1968 to 2,970 tons in 1978. The sulfate process is currently used for over 50 percent of the pulpwood.

In addition to roundwood volume, the equivalent of 265,000 cords of plant byproducts were used by pulpmills.

OTHER PRODUCTS

Veneer log harvest in Oklahoma totaled 37 million board feet, accounting for 8 percent of the State's roundwood production. Oklahoma has one veneer plant

that manufactures southern pine plywood. Hardwood veneer logs are exported out of State to veneer mills.

Most remaining 1978 timber went into nearly 10 million pine posts and poles—more than twice the 1975 production and 62 percent greater than 1972. Other products were charcoal, hardwood handlestock, and furniture stock.

PLANT RESIDUES

In converting roundwood into primary products, plants generated over 31 million cubic feet of residues. Of this volume, 74 percent was in coarse form suitable for conversion into pulp chips. The rest was finer material such as sawdust and shavings. The coarse chips were used for fiber production and accounted for 72 percent of total utilization. As in 1975, an important use of the finer wood residues was for industrial fuel and constituted 22 percent of primary byproduct consumption.

Over 370,000 tons of bark accumulated in 1978 and nearly 90 percent was used, chiefly for industrial fuel.

Table 1.--Volume of industrial roundwood by product, 1978

Product	Volume in standard units				Roundwood volume		
	Standard units	All species	Softwood	Hardwood	All species	Softwood	Hardwood
					----- M ft ³ -----		
Sawlogs	M fbm ^{1/}	188,620	149,961	38,659	31,113	24,669	6,444
Veneer logs	M fbm ^{1/}	36,868	36,655	213	6,066	6,030	36
Pulpwood	Std.cords	348,752	243,374	105,378	28,143	19,713	8,430
Poles and posts	M pieces	9,688	9,688	...	7,274	7,274	...
Misc. products ^{2/}	M ft ³	249	80	169	249	80	169
Total					72,845	57,766	15,079

^{1/} International 1/4-inch rule.

^{2/} Includes chemical wood, handlestock, and furniture stock.

Table 2.--Industrial roundwood by species, 1978

Species group	Sawlogs	Veneer logs	Pulpwood	Poles and Posts	Miscellaneous products
		----- M fbm ^{1/} -----	Std. cords	M pieces	M ft ³
Softwood:					
Pines	149,961	36,655	243,374	9,688	80
Other	---	---	---	---	---
Total	149,961	36,655	243,374	9,688	80
Hardwood:					
Oaks ^{2/}	24,355	---	63,868	---	73
Gums ^{3/}	4,149	---	7,596	---	---
Other	10,155	213	33,914	---	96
Total	38,659	213	105,378	---	169
All species	188,620	36,868	348,752	9,688	249

^{1/} International 1/4-inch rule.

^{2/} Includes red oaks and white oaks.

^{3/} Includes black gum, tupelo, and sweetgum.

Table 3.-- Residues produced by primary wood-using plants, 1978

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 and veneer	30,213	7,501	22,712	26,016	5,791	20,225	4,197	1,710	2,487
Poles & posts	1,027	704	323	1,027	704	323	---	---	---
Miscellaneous products	37	22	15	---	---	---	37	22	15
All products	31,277	8,227	23,050	27,043	6,495	20,548	4,234	1,732	2,502

^{1/} Excludes pulpwood industry.

^{2/} Fine residues include sawdust, screening, and other materials generally too small for chipping.

^{3/} Coarse residues include slabs, edgings, trimmings, and other material generally suitable for chipping.

Table 4.--Volume^{1/} of primary plant byproducts, 1978

Type of use	All species	Softwood	Hardwood
	----- M ft ³ -----		
Fuel ^{2/}	6,416	5,534	882
Fiber ^{3/}	21,437	19,845	1,592
Other ^{4/}	1,809	851	958
Total	29,662	26,230	3,432

^{1/} Excludes pulpwood industry.

^{2/} Includes all residues used as fuel by industrial plants and domestic fuel either sold or given away.

^{3/} Includes all residues used in the manufacture of fiber products, such as pulp or hardboard.

^{4/} Includes residues used as livestock bedding, mulch, charcoal, and specialty items.

Table 5.--Movement of industrial roundwood by product, 1978

Product	Unit	Out of State receipts	Logged and remained in State	Logged and shipped out of State	Total receipts	Total net production
Sawlogs	M fbm ^{1/}	60,779	184,797	3,823	245,576	241,753
Pulpwood	Std. cords	297,066	285,575	63,177	582,641	519,464
Poles and Posts	M pieces	647	7,906	1,782	8,553	6,771
Misc. products ^{2/}	M ft ³	1,105	6,425	58	7,530	7,472

^{1/} International 1/4-inch rule.

^{2/} includes veneer logs, chemical wood, handlestock, and furniture stock.

Table 5.--Sawlog production by county, 1978

County	All species	Softwood	Hardwood	County	All species	Softwood	Hardwood
----- M fbm ^{1/} -----				----- M fbm ^{1/} -----			
Adair	211	---	211	Nowata	489	---	489
Atoka	1,662	766	896	Okfuskee	314	---	314
Bryan	3,820	37	3,783	Okmulgee	63	---	63
Cherokee	476	---	476	Osage	598	---	598
Choctaw	2,382	1,107	1,275	Ottawa	827	---	827
Coal	810	61	749	Pawnee	61	---	61
Craig	880	---	880	Payne	16	---	16
Creek	98	---	98	Pittsburg	1,050	70	980
Delaware	982	---	982	Pottawatomie	26	---	26
Haskell	175	---	175	Pushmataha	42,812	38,145	4,667
Hughes	509	37	472	Rogers	184	---	184
Kay	114	---	114	Seminole	79	---	79
Latimer	1,693	317	1,376	Sequoyah	823	---	823
LeFlore	38,588	34,583	4,005	Tulsa	136	---	136
Lincoln	63	---	63	Wagoner	43	---	43
McCurtain	85,337	74,702	10,635	Washington	611	---	611
McIntosh	2,491	136	2,355				
Mayes	162	---	162				
Muskogee	35	---	35				
				All counties	188,620	149,961	38,659

^{1/} International 1/4-inch rule.

Table 7.--Sawlog movement, 1978

County	Logged and remained in county	Outgoing shipments	Incoming shipments	Total log receipts
----- M fbm ^{1/} -----				
Adair	117	94	93	210
Atoka	1,125	538	2,810	3,935
Cherokee	121	356	163	284
Choctaw	824	1,558	1,065	1,889
Delaware	426	557	318	744
Hughes	68	441	21	89
Latimer	1,084	609	1,266	2,350
Le Flore	7,243	31,345	2,982	10,225
McCurtain	85,186	150	127,686	212,872
Ottawa	706	121	1,125	1,831
Pushmataha	3,941	38,871	691	4,632
All other counties ^{2/}	4,067	9,072	2,448	6,515
All counties	104,908	83,712	140,668	245,576

^{1/} International 1/4-inch rule.

^{2/} Counties with less than 3 plants.

Table 8.--Round pulpwood production, 1978

County	All Species	Softwood	Hardwood
----- Standard cords -----			
Cherokee	478	--	478
Choctaw	20,306	10,104	10,202
Custer	131	--	131
Delaware	337	--	337
Latimer	368	242	126
Le Flore	75,518	58,290	17,228
McCurtain	157,287	115,497	41,790
Mayes	4,559	--	4,559
Pushmataha	89,242	59,241	30,001
Rogers	210	--	210
Wagoner	316	--	316
All counties	348,752	243,374	105,378

Table 9.--Veneer log production by county, 1978

County	All species
----- M fbm ^{1/} -----	
Le Flore	7,698
McCurtain	20,160
Pushmataha	8,797
Other counties	213
All counties	36,868

Table 10.--Pole and post production by county, 1978

County	All species (softwood)
----- M pieces -----	
Atoka	95
Choctaw	1,375
Latimer	3
Le Flore	1,216
McCurtain	6,156
Pontotoc	8
Pushmataha	833
Sequoyah	2
All Counties	9,688

Table 11.--Output of miscellaneous products by county, 1978

County	All species	Softwood	Hardwood
----- M ft ³ -----			
Adair	2	---	2
Cherokee	2	---	2
Choctaw	12	---	12
Coal	8	---	8
Craig	3	---	3
Creek	3	---	3
Delaware	14	---	14
Latimer	80	40	40
Le Flore	80	40	40
Mayes	2	---	2
Nowata	3	---	3
Okmulgee	16	---	16
Ottawa	3	---	3
Pittsburg	10	---	10
Rogers	2	---	2
Tulsa	3	---	3
Other counties ^{1/}	6	---	6
All counties	249	80	169

^{1/} Counties with 1 M ft³ or less: Haskell, Hughes, McCurtain, McIntosh, Muskogee, Osage, Pawnee, and Washington.

Table 12.--Industrial roundwood production by county, 1978

County	All species	Softwood	Hardwood	County	All species	Softwood	Hardwood
----- M ft ³ -----				----- M ft ³ -----			
Adair	37	---	37	Nowata	84	---	84
Atoka	409	260	149	Okfusgee	64	---	64
Bryan	637	6	631	Okmulgee	38	---	38
Cherokee	119	---	119	Osage	100	---	100
Choctaw	2,926	1,886	1,040	Ottawa	141	---	141
Coal	143	10	133	Pawnee	11	---	11
Craig	149	---	149	Payne	3	---	3
Creek	20	---	20	Pittsburg	187	12	175
Custer	10	---	10	Pontotoc	31	31	---
Delaware	205	---	205	Pottawatomie	6	---	6
Haskell	30	---	30	Pushmataha	16,322	13,144	3,178
Hughes	88	6	82	Rogers	50	---	50
Kay	19	---	19	Seminole	15	---	15
Latimer	403	124	279	Sequoyah	145	8	137
Le Flore	15,326	13,240	2,086	Tulsa	26	---	26
Lincoln	13	---	13	Wagoner	33	---	33
McCurtain	34,134	29,017	5,117	Washington	103	---	103
McIntosh	418	22	396	All counties	72,845	57,766	15,079
Mayes	394	---	394				
Muskogee	6	---	6				

Table 13.--Plant byproducts used by county, 1978

County	All species		Softwood		Hardwood	
	Fine	Coarse	Fine	Coarse	Fine	Coarse
----- M ft ^{3/} -----						
Adair	1	5	---	---	1	5
Atoka	24	220	5	37	19	183
Cherokee	3	11	---	---	3	11
Choctaw	105	175	85	139	20	36
Delaware	27	44	---	---	27	44
Hughes	3	5	---	---	3	5
Latimer	50	52	11	20	39	32
Le Flore	318	695	179	478	139	217
McCurtain	6,348	20,648	5,543	19,385	805	1,263
Ottawa	59	97	---	---	59	97
Pushmataha	94	368	70	278	24	90
All other Counties ^{1/}	59	253	---	---	59	253
All Counties	7,091	22,573	5,893	20,337	1,198	2,236

^{1/} Counties with less than 3 plants or with 1 Mft³ or less.

Table 14.--Unused plant residues by county, 1978

County	All species		Softwood		Hardwood	
	Fine	Coarse	Fine	Coarse	Fine	Coarse
----- M ft ³ -----						
Adair	7	6	---	---	7	6
Atoka	118	---	9	---	109	---
Cherokee	7	5	---	---	7	5
Choctaw	101	57	53	---	48	57
Delaware	10	7	---	---	10	7
Latimer	35	72	2	6	33	66
Le Flore	12	---	---	---	12	---
McCurtain	556	206	471	200	85	6
Ottawa	3	3	---	---	3	3
Pushmataha	91	4	60	1	31	3
All other counties ^{1/}	196	117	7	4	189	113
All counties	1,136	477	602	211	534	266

^{1/} Counties with less than 3 plants or with 1 M ft³ or less.

Table 15.--Bark used and unused by county, 1978

County	Bark used			Bark unused		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood
----- Tons -----						
Adair	45	---	45	76	---	76
Atoka	2,164	174	1,990	---	---	61
Cherokee	102	---	102	61	---	61
Choctaw	14,402	14,053	349	723	---	723
Delaware	476	---	476	147	---	147
Hughes	49	---	49	2	---	2
Latimer	396	92	304	1,019	182	837
Le Flore	4,931	2,248	2,683	---	---	---
McCurtain	299,615	239,468	60,146	33,890	33,808	82
Ottawa	1,010	---	1,010	42	---	42
Pushmataha	4,202	3,096	1,106	43	8	35
All other counties ^{1/}	4,442	---	4,442	2,489	984	1,505
All counties	331,834	259,132	72,702	38,492	34,982	3,510

^{1/} Counties with less than 3 plants.

Table 16.--Large ^{1/} sawmills, 1978

County	Firm	Plant	
		Location	Address ^{2/}
Atoka	B & B Logs and Lumber	Lane	Rt. 1
Le Flore	Bennett Sawmill Burnett Lumber Co.	Wister Heavener	Box 348 Box 158
McCurtain	Clouse Bros. Sawmill Coldiron Lumber Co. Huffman Lumber Co. Reynolds-Wilson Lumber Co. Thomason Lumber Co. Weyerhaeuser Co.	Broken Bow Wright City Jumper Bypass Idabel Broken Bow Wright City	Rt. 1, Box 182D Box 321 Box 808, Idabel Hwy 70 E Box 804 Box 269

^{1/} Output of 3 million board feet or more.

^{2/} Office address if different from mailing address.

Table 17.--Small ^{1/} sawmills, 1978

County	Firm	Plant	
		Location	Address ^{2/}
Adair	Daniel Vaughn	Christie	Rt. 3, Stilwell
	Henry Vaughn	Christie	Rt. 2, Westville
	Ray Vaughn	Christie	Rt. 2, Westville
	Richard Vaughn	Christie	Rt. 3, Stilwell
Atoka	C & W Lumber Co.	Lane	Rt. 1
	Bob Johnston	Crystal	—
	Monroe Ison Sawmill	Daisy	Star Rt.
Bryan	Gray's Sawmill	Durant	Rt. 1, Box 128
	Honeywell Sawmill	Bokchito	Box 184
Cherokee	Richard Flourney Sawmill	Park Hill	Rt. 2
	E. L. Vern Goodnight	Tahlequah	Welling
	Charley Horn Sawmill	Moody	Rt. 4, Box 239, Tahlequah
	Raymond Reck Sawmill	Eldon	Rt. 4, Welling
	Norman Shankle Sawmill	Teresita	Rt. 1, Rose
Bill Woods Sawmill	Peggs	—	
Choctaw	Bruner Ivory Handle Co.	Boswell	Box 372
	Hubert Hall Sawmill	Boswell	Box 373
	Kerr Sawmill	Hugo	Box 97
	T & N Lumber Co.	Ft. Towson	Box 327
Craig	Keith Ingram Sawmill	Welch	Miami
Delaware	Oscar Barnes	Jay	Rt. 1
	Coleman Blevins	Deerlick	Rt. 2, Southwest City, MO
	David Dow	Kansas	Box 44
	Gene Gatewood	Flint	—
	William Johnson	Topsy	Star Rt. Spavinaw
	Don McCray	Twin Oaks	Rt. 1, Colcord
Oscar Tyer Sawmill	Kansas	Rt. 4, Siloam Springs, MO	
Hughes	B & S Lumber	Limestone	Rt. 1, Box 214
	J. Freeman	Hornstown	Box 40, Stuart
	John McKittrick	Holdenville	—
Latimer	Choctaw Pallet Co.	Wilburton	Box 8
	McCasland	Wilburton	314 W. Main St.
	Mesa Lumber Mill	Wilburton	Rt. 3, Box 27H
	Lester Moody Sawmill	Red Oak	Star Rt.
Le Flore	Bethel's Sawmill	Talihina	Rt. 1
	Garner Lumber Co.	Wister	Box 206
Lincoln	Jack Vanbrunt	Prague	—
McCurtain	Davis Bros. Sawmill	Eagletown	—
	Finley Sawmill	Wright City	—
	Smith Lumber Co.	Valliant	Star Rt. 1
	Sullivan Lumber Co.	Haworth	Box 17
Nowata	C & H Lumber Co.	Nowata	Box 461
Okmulgee	Beaver Handle Mill	Dewar	Rt. 3, Box 117, Henryetta
	Whitlock Sawmill	Henryetta	Rt. 3, Box 72
Ottawa	Roy L. Anderson Sawmill	Afton	Box 210
	B. Burleson Milling	Wyandotte	Rt. 1
	Cumming's Sawmill	Wyandotte	Rt. 1, Seneca, MO
Pittsburg	Bill Johnston Sawmill	Indianola	Rt. 1
Pushmataha	Birchfield Lumber Co.	Antlers	Rt. 2
	Grover Bruce Sawmill	Antlers	Rt. 1
	Fowler Lumber Co.	Clayton	Rt. 10, Box 33A
	G. P. Frederick Sawmill	Moyers	Box 146
	Julian & Hansen Wood Products	Rattan	Box 146
	Henslee Lumber Co.	Antlers	Box 516
Andrew Jackson	Antlers	—	
Rogers	W. G. Brasier Sawmill	Claremore	Rt. 2
Seminole	Melvin Mullins	Sasakwa	Rt. 1

^{1/} Output of less than 3 million board feet.^{2/} Office address specified if different from plant location.

Table 18.--Other primary forest industries, 1978

County	Firm	Plant	
		Location	Address ^{1/}
Choctaw	Central Forest Products, Inc. ^{2/}	Hugo	Box 392
Delaware	Beaver Handle Co. ^{3/}	Jay	Star Rt., Spavinaw
	William Johnston ^{3/}	Topsy	Star Rt., Spavinaw
Latimer	Cal McCullough Log Cabins ^{2/}	Red Oak	Box 316
Le Flore	Talihina Charcoal ^{4/}	Talihina	Rt. 1
McCurtain	Huffman Wood Preserving, Inc. ^{2/}	Broken Bow	Drawer A
	Mixon Bros. Wood Preserving Co. ^{2/}	Idabel	Box 327
	Weyerhaeuser Co. ^{5/}	Broken Bow	Box 269, Wright City
	Weyerhaeuser Co. ^{5/}	Valliant	Box 269, Wright City
	Weyerhaeuser Co. ^{6/}	Wright City	Box 269
Mayes	Georgia Pacific ^{5/}	Pryor	Box 578
Okmulgee	Beaver Handle Mill ^{3/}	Dewar	Star Rt., Spavinaw
Pushmataha	Julian Hansen Wood Products ^{2/}	Rattan	Box 146
	L & M Post Co. ^{2/}	Antlers	Box 188
Rogers	Beaver Log Homes ^{2/}	Claremore	Box 1145

^{1/} Office address if different from plant location.

^{2/} Pole, post, and piling plant.

^{3/} Handlestock mill.

^{4/} Charcoal mill.

^{5/} Pulpwood mill.

^{6/} Plywood veneer mill (pine).

RUDIS, VICTOR A., and J. GREG JONES.

1981. Oklahoma forest industries, 1978. U.S. Dep. Agric. For.
Serv. Resour. Bull. SO-78 10 p. South. For. Exp. Stn., New
Orleans, La.

Surveys and analyzes total production of softwood and hard-
wood output by county in Oklahoma during 1978.