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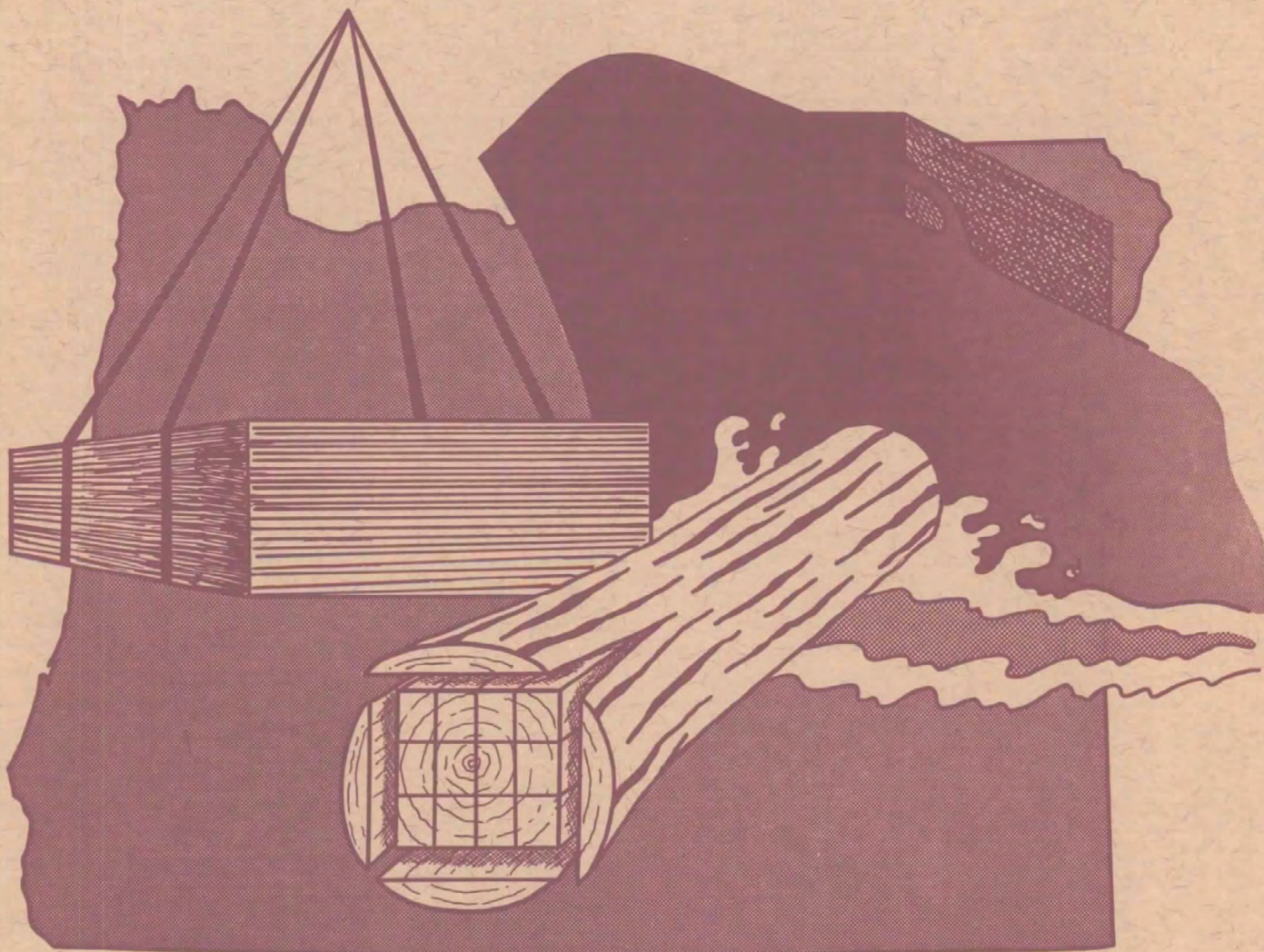
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Oregon's Forest Products Industry: 1988

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AUTHORS

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Abstract

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This report presents the findings of a survey of all primary forest products industries in Oregon for 1988. The survey included the following sectors: lumber; veneer and plywood; pulp and board; shake and shingle; export; and post, pole, and piling. Tables, presented by sector and for the industry as a whole, include characteristics of the industry, nature and flow of logs consumed, and disposition of mill residues.

Keywords: Forest products industry, mill surveys, wood utilization, mill residues, Oregon.

Summary

This report presents the results of a survey of the primary wood-processing industry in Oregon for 1988. Data for the survey were obtained from a mail and telephone canvass in 1989 of all primary wood-processing firms in the State. Industry contacts for the survey were based on lists from previous surveys that were updated through assistance from the Oregon Division of Employment, by various directories of the forest products industry, and from information passed on by individual millowners. Similar surveys were produced in 1968, in cooperation with the Oregon Division of Forestry; in 1972, with Oregon State University; and by the Pacific Northwest Forest and Range Experiment Station in 1976, 1982, and 1985. This survey identified the raw material inputs and characteristics of the forest products industry. Data are shown separately for the following industries: lumber; veneer and plywood; pulp and board; shake and shingle; export; and post, pole, and piling.

The survey identified 360 separate operations that used almost 8.8 billion board feet of logs in 1988. The lumber (62 percent) and veneer and plywood (29 percent) sectors were the major users. In addition, the pulp and board industry used about 6.8 million tons of wood fiber, 83 percent of it in mill residues. The industry as a whole generated about 15.5 million tons of residual materials, of which less than 1 percent was not used.

Data for log consumption and product output are actual figures reported by the mills. Subsequent classification of these data (that is, by species, owner, origin, degree of manufacturing, and other criteria) is based on percentage distributions provided by the mills and may not agree precisely with other published figures. Statistics on mill residues are based on average factors applied to product output; thus, they may differ from actual volumes for a given mill.

Reliability of the data presented in this report is considered to be high, because the survey was a canvass of all mills. Information collected from each mill is assumed to be the best available, and whenever possible, the information came from formal records. Some information had to be estimated, however. Information for individual mills is strictly confidential, and any information that could reveal critical details of an individual operation has been combined with other data to avoid disclosure.

Highlights

Industry Characteristics

Total number of mills in 1988 was 360:

Type of mill	Number
Sawmills	165
Veneer and plywood	87
Pulp	13
Board	20
Shake and shingle	24
Log export	33
Post, pole, and piling	18

Lane County led all others with 53 mills, or 14.7 percent of the total for the State.

The 98 largest sawmills had 85 percent of total sawmill capacity.

Only six burners operated in the State in 1988.

Wood Consumption

A total of 8,798 million board feet of logs was consumed.

Pulp and board industry consumed about 6.8 million tons of mill residues and offsite roundwood chips.

Leading counties in roundwood consumption were:

County	Million board feet
Lane	1,478
Douglas	1,157
Jackson	723
Klamath	473

About 41 percent of the logs were from trees younger than 100 years.

Public lands were the source for 61 percent of the log consumption; National Forests provided 72 percent of the logs from public lands.

Log consumption by industry was:

Industry	Percent
Sawmills	61.9
Veneer and plywood	28.7
Log export	7.7
Pulp and board	1.2
Post, pole, and piling	.3
Shake and shingle	.2

Mill Residues

A total of almost 15.5 million tons of residues was generated:

Type of mill	Tons (dry weight) of residue
Sawmills	9,992,199
Veneer and plywood	5,469,447
Shake and shingle	17,317

Seventy-nine percent of the residue was wood, 21 percent was bark.

More than 99 percent of the wood and bark residue was used.

Nearly 61 percent of wood residue went to pulp and board industries; 25 percent was used for fuel.

About 87 percent of bark was used for fuel; 12 percent was used for miscellaneous purposes.

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INTRODUCTION

The forest products industry of Oregon continues to be the Nation's number one producer of wood products. In addition to ranking first in production of lumber, plywood, and composition board, the industry produces a large volume of shakes and shingles; posts, poles, and pilings; and logs for export.

The forest products industry contributes significantly to the State's economy. The activities of this industry are translated into jobs, payroll, tax contributions, and the purchases of services and materials. The viability of the industry has even more significance to many small communities. In some towns, the local mill¹ may be the only employer other than the service industry.

Changes in timber supply, technology, and product demand have resulted in a much changed industry from the one that existed even 20 years ago. Oregon has fewer mills, greater diversification, a wider range of products, and more efficient and complete use of the timber resource.

For this reason, up-to-date information on the forest industry is vital. Decisionmakers and planners, both within and outside the industry, need to know how the industry is changing and how the resource is being used. This report provides much of this information through an indepth look at Oregon's forest products industry for 1988. Coupled with similar reports for 1968 (Manock and others 1970), 1972 (Schuldt and Howard 1974), 1976 (Howard and Hiserote 1978), 1982 (Howard 1984), and 1985 (Howard and Ward 1988), this information provides a basis for examining significant trends in industry characteristics and timber use.

The forest products industry in Oregon was severely impacted by the depressed national economy at the start of the 1980s. By 1983, the industry, spurred by improvements in residential and commercial construction, was beginning to recover. A comparison of log consumption between 1982 and 1985 reports showed this recovery. In 1982, reported log consumption by the forest products industry was 5.96 billion board feet. In 1985, this figure was 8.27 billion board feet, an increase of 39 percent. The 1988 report shows this recovery has slowed down. The log consumption in 1988 was 8.8 billion board feet, an increase of only 6 percent since 1985. Now, as throughout history, the forest industry reflects the dynamics of supply and demand.

The forest industry, as the term is used in this study, refers to six primary wood-processing industries: sawmills; veneer and plywood; pulp and board; shake and shingle; post, pole, and piling; and export (logs only).

The location of the forest industry in Oregon is closely related to the geographic distribution of the timber resource. As would be expected, a large share of the industry is in the heavily timbered areas west of the Cascade Range. Figure 1 shows that 80 percent of the log consumption occurred in western Oregon.

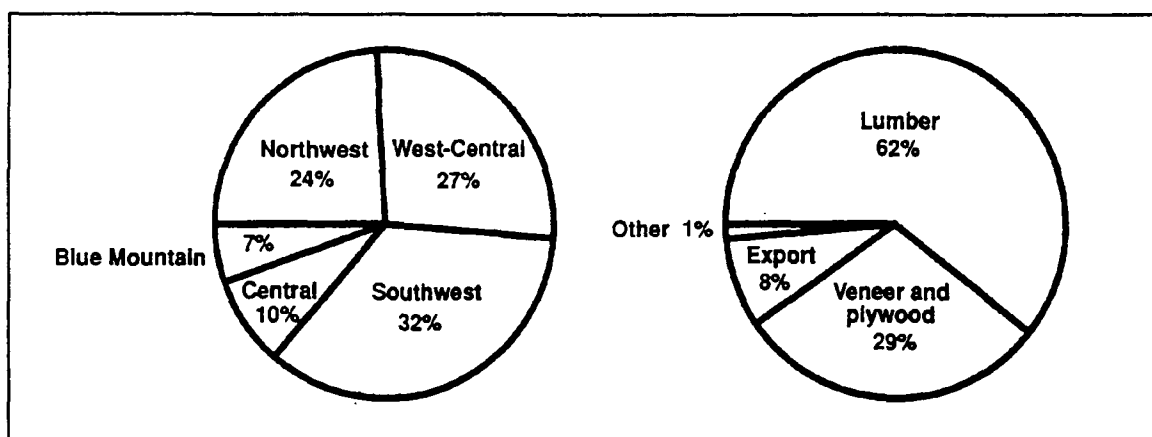


Figure 1—Distribution of log consumption by resource area and industry, Oregon, 1988

¹See "Glossary" for definition of terms used in this report.

The State was divided into five resource areas for the study (fig. 2). Designation of these areas reflected both the nature of the timber resource and the historic marketing structure of the industry. This is borne out by the study data, which show that on average about 85 percent of the logs processed in a particular resource area were harvested within the boundaries of that area.

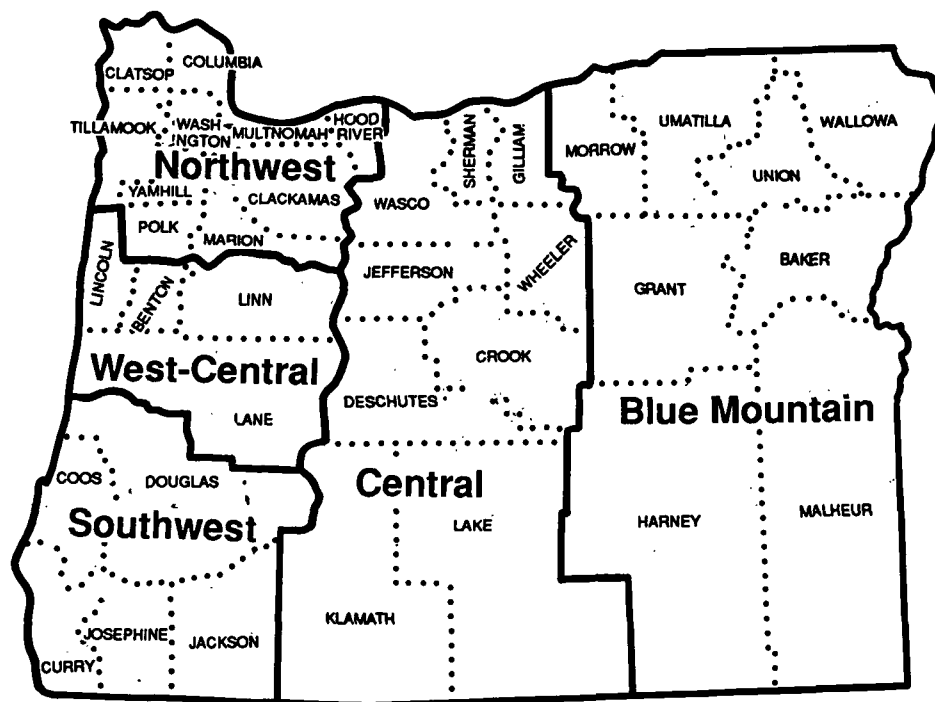


Figure 2— Resource areas for 1988 Oregon forest products industry survey.

Comparison With Previous Surveys

Figures 3 to 8 indicate some trends in Oregon's forest products industry. The data are taken from this report and from those developed in the 1968, 1972, 1976, 1982, and 1985 surveys.

Industry	Number of mills by year					
	1968	1972	1976	1982	1985	1988
Sawmills	300	262	243	161	173	165
Veneer and plywood	138	133	132	101	89	87
Pulp and board	37	40	40	36	35	33
Shake and shingle	48	43	46	34	26	24
Post, pole, and piling	²	10	9	8	7	18
Log export	²	38	28	32	35	33
Total	523	526	498	372	365	360

²The post, pole, and piling and the log export industries were not included in the 1968 survey.

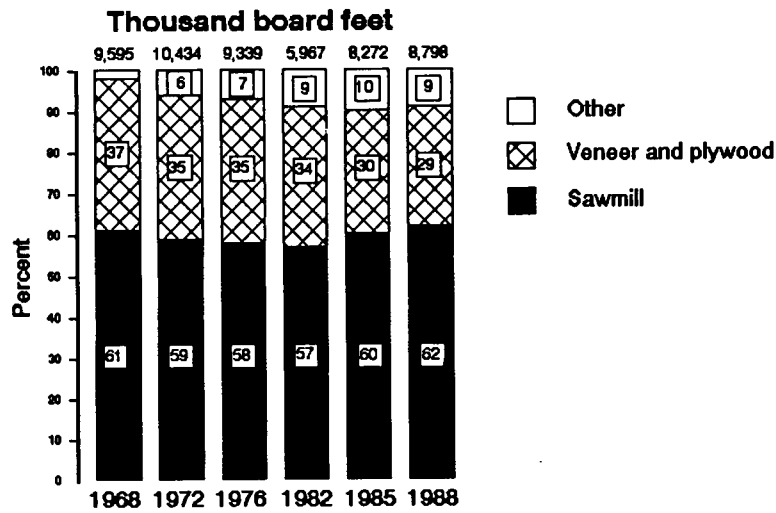


Figure 3—Log consumption by industry.

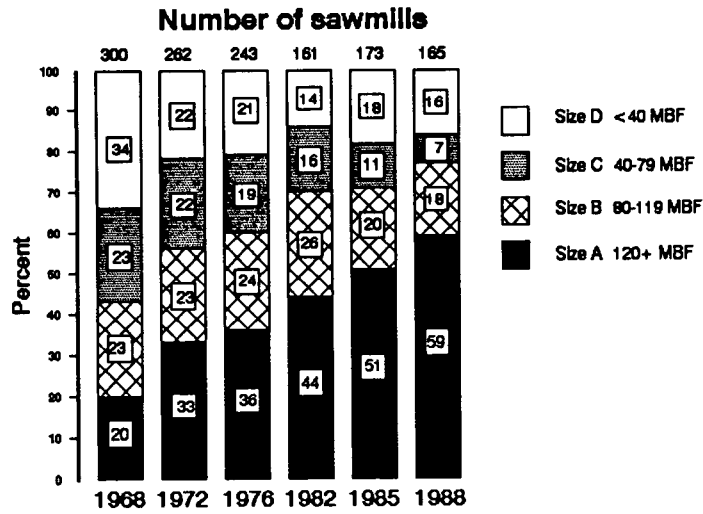


Figure 4—Sawmills by size class.

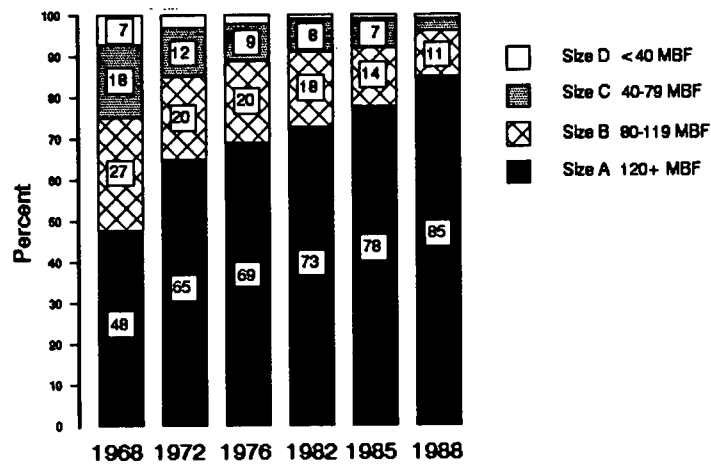


Figure 5—Log consumption by size class.

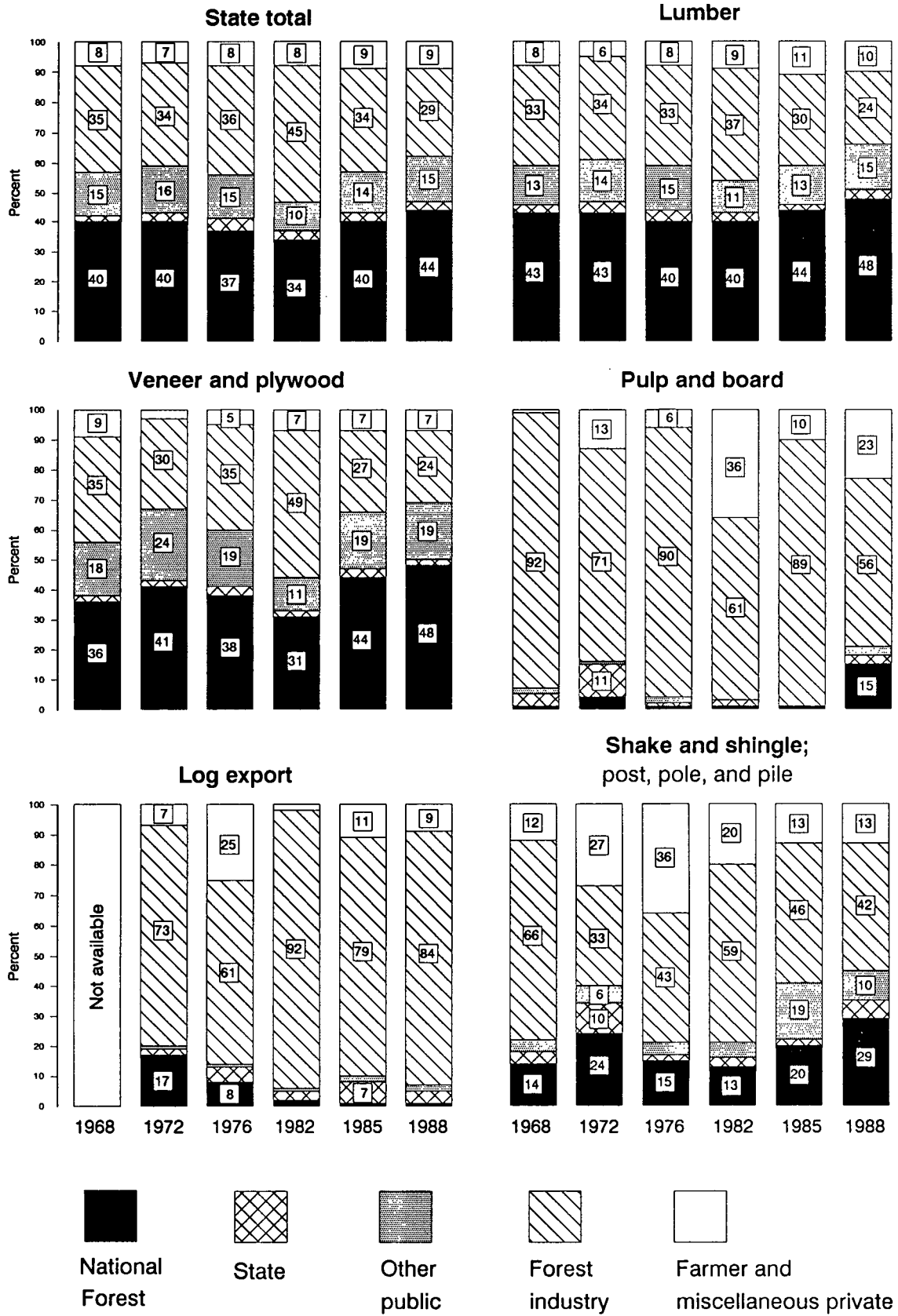


Figure 6—Log consumption by ownership class and industry.

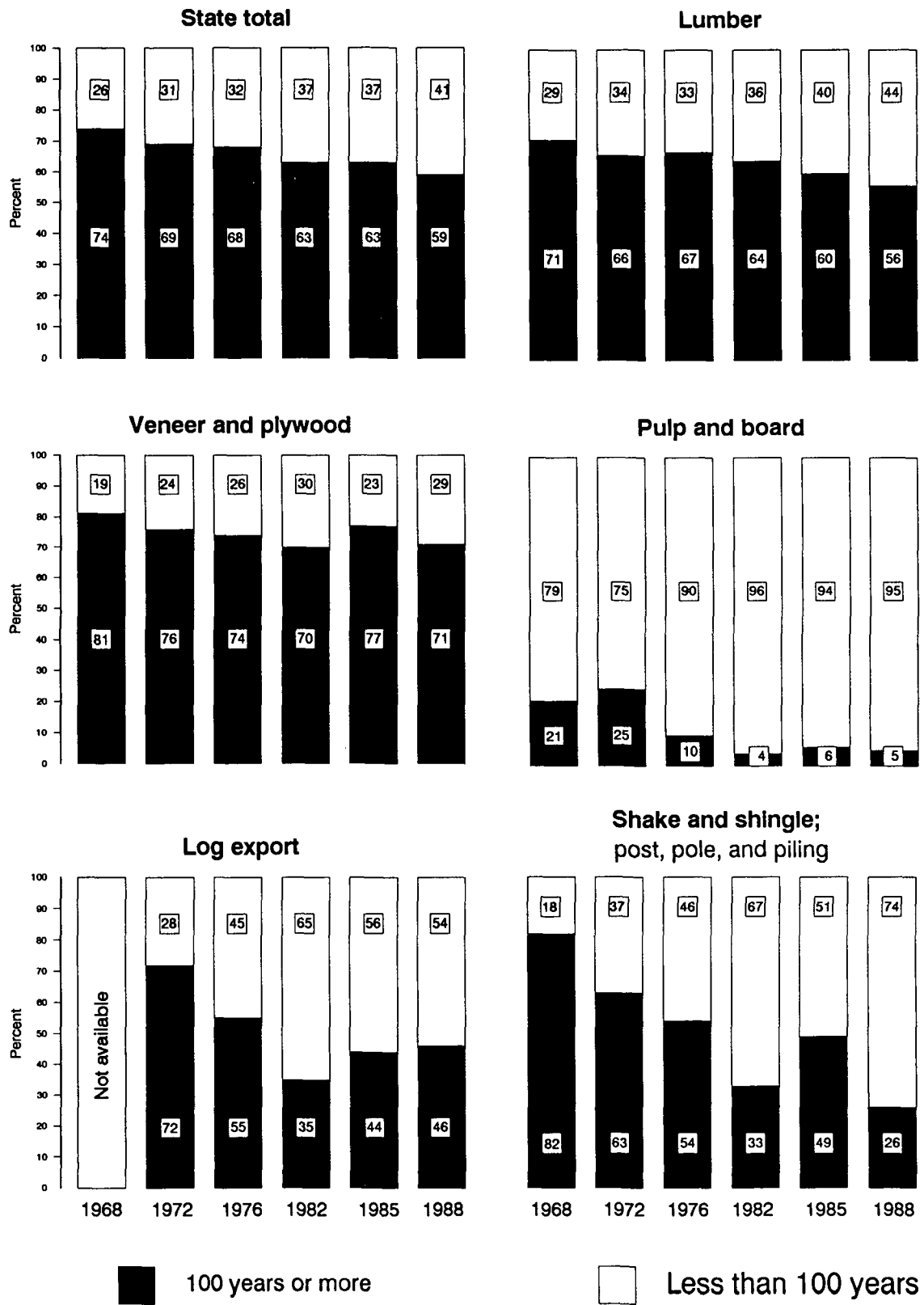


Figure 7—Log consumption by timber age group and industry.

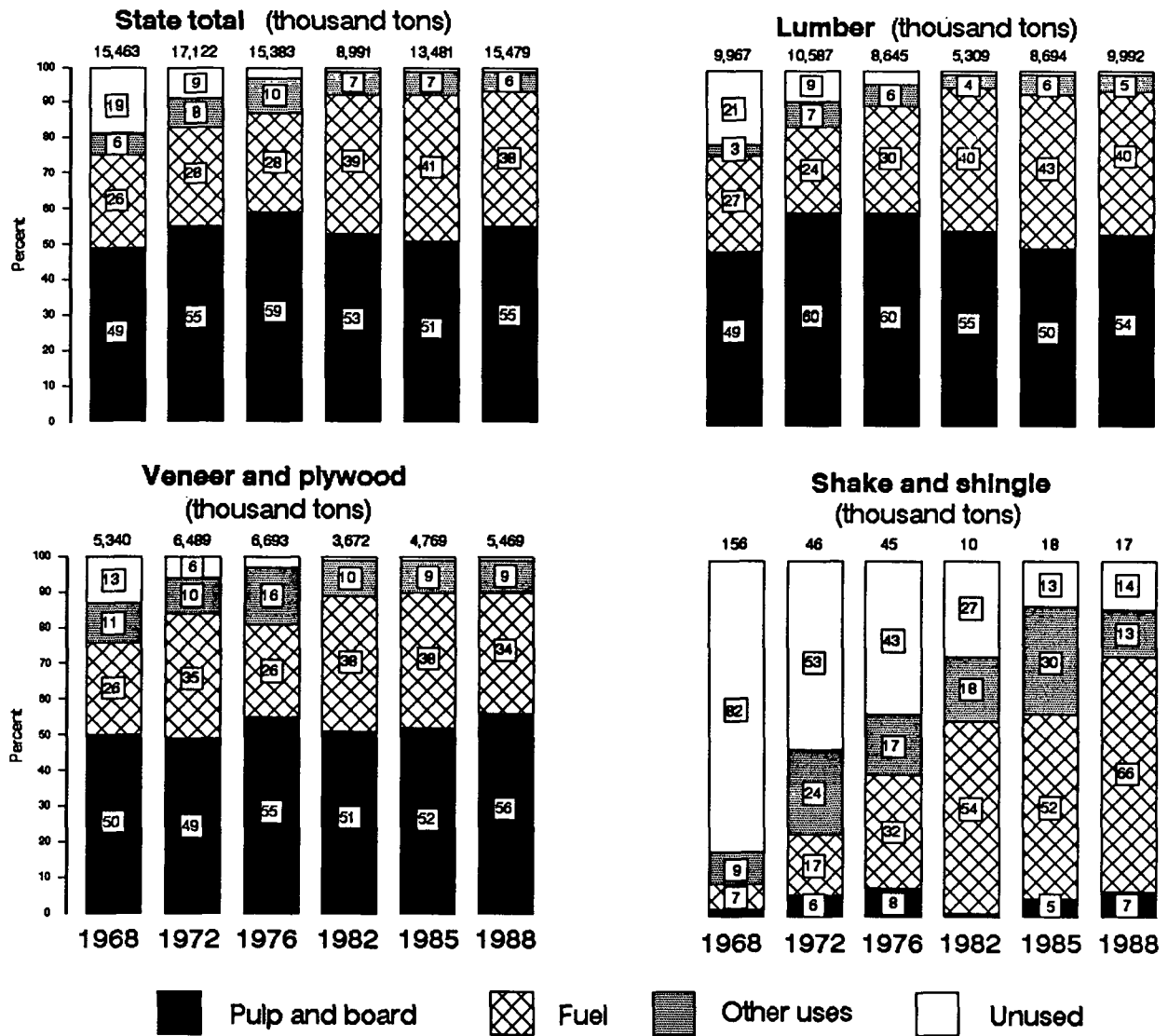


Figure 8—Production and disposition of wood and bark residue by use and by industry.

Acknowledgments

We thank the millowners and operators who cooperated in providing the data for this report and also the major forest industry associations for their support of this study. Special acknowledgment is made to the State of Oregon, Division of Labor, for assistance in updating the mill list.

Metric Conversions

1 cubic foot = 0.02832 cubic meter
1 ton = 907.1849 kilograms
1 square foot = 0.0929 square meter

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Appendix 1

Measurement Units

The board foot is the unit of measure used in this report for all wood consumption, with the exception of purchased or transferred veneer (square feet, 3/8-inch basis) and mill residues (tons, dry weight) consumed by pulpmills and board mills. Consumption by mills not reported in these units was converted by use of the following factors:

1 cord = 500 board feet
1 ton = 500 board feet
10.5 squares = 1,000 board feet (MBF)
1 lineal foot = 3.8 board feet
1 cubic foot = 6 board feet
200 cubic-foot units = 1 bone-dry ton
1 bone-dry unit = 1.2 bone-dry tons

Board-foot lumber tally is the unit of measure used for lumber production; square feet, 3/8-inch basis, for veneer and plywood production; square (100 square feet) for shake and shingle production; and board-foot "local scale" for log export and post, pole, and piling shipments.

Mill Residues

In this study, no attempt was made to get individual mills to quantify the amount of residue produced. Although mills might be able to specify amounts of residue sold for high-value uses (such as pulp chips), the low-value uses (such as mulch or fuel) are more difficult to quantify. The mills therefore were asked to indicate only the percentage distribution of the disposal of their residues. These percentages were then applied to residue volume estimates derived through use of the following factors.

Softwood sawmill residue—Average quantity of residues developed from producing 1,000 board feet of lumber:³

Type of output	Solid volume ²		Dry weight	
			Western Oregon	Eastern Oregon
	<u>Cubic feet</u>	<u>Percent³</u>		<u>Tons</u>
Wood residue:				
Slabs, edgings, sawmill trim	36	24.5	0.486	0.480
Planer trim	3	2.0	.041	.036
Sawdust	16	10.9	.216	.264
Planer shavings	16	10.9	.216	.192
Total	71	48.3	.959	.972
Bark	19	12.9	.258	.228
Lumber	57	38.8	.864	.780
Total	147	100.0	2.081	1.980

³ Based on data from Oregon mills compiled by Oregon State University, School of Forestry, in 1967 and adjusted for changes in lumber standards in 1974 by James O. Howard.

⁴ Equivalent undried solid volume of residue.

⁵ Percentage of log by volume.

Softwood plywood residue—Average quantity of residue developed in producing the equivalent of 1,000 square feet of 3/8-inch plywood (rough basis):⁴

Type of output	Solid volume⁵	Dry weight
	<i>Cubic feet</i>	<i>Tons</i>
Wood residue:		
Log trim	3.4	0.048
Core	6.3	.088
Veneer clip, roundup, and spur trim	19.3	.270
Dry trim and layup loss	6.3	.088
Sander dust	1.6	.022
Total	36.9	.516
Bark	8.8	.132
Plywood	34.9	.463
Total	80.6	1.111

Hardwood sawmill residue—Average residue developed from producing 1,000 board feet of lumber by using a narrow kerf bandsaw:⁶

Type of residue	Dry tons
Coarse	0.60
Shavings	.22
Bark	.34
Sawdust	.23

Shingle mill residue—Average quantity of residue developed from using 1,000 board feet, Scribner scale, of logs or in producing the equivalent volume of 10.5 squares:⁷

Type of residue	Solid volume		Dry weight per thousand board feet
	<i>Cubic feet</i>	<i>Percent</i>	<i>Tons</i>
From shingles:			
Coarse	23	13.7	0.22
Fine	78	46.8	.75
Bark	19	11.5	.28
From shakes:			
Coarse	23	13.7	.22
Fine	24	14.5	.23
Bark	19	11.5	.28
From hip and ridge and other:			
Coarse	23	13.7	.22
Fine	51	30.6	.49
Bark	19	11.5	.28

⁴ All residue factors, except sander dust and bark, from data collected in various mill studies by the Timber Quality and Product Yield Potential of Western Softwoods Resources Project, Pacific Northwest Research Station, and compiled by James O. Howard. Sander dust and bark factors based on data from Oregon mills compiled in 1967 by Oregon State University, School of Forestry.

⁵ Volumes are based on equivalent green volume.

⁶ Based on information furnished by Northwest Hardwoods, Inc., Portland, OR.

⁷ Based on discussions with the Redcedar Shingle Bureau, Bellevue, WA.

Glossary

Apparent log receipts—The sum of a mill's log consumption and gain or loss in inventory.

MBF—Thousand board feet.

Mill—Each identifiable operation at one location: a sawmill with a large log operation and a small log operation is counted as two mills; also, a sulfate and a groundwood pulping process at one location is counted as two mills.

Offsite roundwood chips—Chips from logs that are processed at a chipping mill, not as part of a milling operation, then transported to the user.

Utility log—Logs with the following minimum specifications: 6-inch diameter, 12-foot length, 50 percent or more chippable gross scale.

Appendix 2

All Industries (Tables 1-9)

Table 1--Number of mills by resource area and type of industry, Oregon, 1988

RESOURCE AREA	LUMBER	VENEER AND PLYWOOD	PULP AND BOARD ^a	OTHER INDUSTRIES			ALL INDUSTRIES
				SHAKE AND SHINGLE	EXPORT ^b	POST, POLE, AND PILING	
NORTHWEST	46	11	8	10	15	4	94
WEST-CENTRAL	39	33	13	11	4	4	104
SOUTHWEST	38	37	5	3	14	2	99
CENTRAL	22	5	4	--	--	7	38
BLUE MOUNTAIN	20	1	3	--	--	1	25
ALL AREAS	165	87	33	24	33	18	360

^a Each pulping process at a single location is considered an individual mill.

^b Represents the number of identifiable operations involved in the export of logs.

Table 2—Wood consumption by mills, by resource area, industry, and type of material, Oregon, 1988

RESOURCE AREA AND INDUSTRY	ROUNDWOOD				RESIDUE ^b
	SOUND LOGS	UTILITY LOGS	ALL ROUNDWOOD	OTHER WOOD ^a	
- - - THOUSAND BOARD FEET, SCRIBNER LOG RULE - - -					TONS, DRY WEIGHT
NORTHWEST:					
LUMBER	1,381,969	53,905	1,435,874	38,358	--
VENEER AND PLYWOOD	299,724	23,190	322,914	--	--
PULP AND BOARD	28,900	44,100	73,000	42,949	1,488,301
SHAKE AND SHINGLE	3,175	1,064	4,239	536	--
EXPORT	229,396	9,496	238,892	--	--
POST, POLE, AND PILING	18,433	--	18,433	--	--
TOTAL	1,961,597	131,755	2,093,352	81,843	1,488,301
WEST-CENTRAL					
LUMBER	1,360,672	81,563	1,442,235	108,474	--
VENEER AND PLYWOOD	621,878	161,035	782,913	--	--
PULP AND BOARD	--	--	--	--	3,140,137
SHAKE AND SHINGLE	7,724	541	8,265	332	--
EXPORT	120,743	--	120,743	--	--
POST, POLE, AND PILING ^c	4,077	--	4,077	--	--
TOTAL	2,115,094	243,139	2,358,233	108,806	3,140,137
SOUTHWEST					
LUMBER	1,205,346	40,641	1,245,987	31,315	--
VENEER AND PLYWOOD	1,051,488	136,793	1,188,281	--	--
PULP AND BOARD	28,458	--	28,458	--	1,405,927
SHAKE AND SHINGLE	2,970	250	3,220	153	--
EXPORT	313,582	375	313,957	--	--
POST, POLE, AND PILING ^c	--	--	--	--	--
TOTAL	2,601,844	178,059	2,779,903	31,468	1,405,927
CENTRAL					
LUMBER	631,757	24,452	656,209	3,392	--
VENEER AND PLYWOOD ^d	231,762	3,718	235,480	--	--
PULP AND BOARD	--	--	--	--	491,213
POST, POLE, AND PILING	8,041	--	8,041	--	--
TOTAL	871,560	28,170	899,730	3,392	491,213
BLUE MOUNTAIN					
LUMBER	587,967	79,225	667,192	--	--
VENEER AND PLYWOOD ^d	--	--	--	--	--
PULP AND BOARD	--	--	--	--	290,834
TOTAL	587,967	79,225	667,192	--	290,834
ALL AREAS:					
LUMBER	5,167,711	279,786	5,447,497	181,539	--
VENEER AND PLYWOOD	2,204,852	324,736	2,529,588	--	--
PULP AND BOARD	57,358	44,100	101,458	42,949	6,816,412
SHAKE AND SHINGLE	13,869	1,855	15,724	1,021	--
EXPORT	663,721	9,871	673,592	--	--
POST, POLE, AND PILING	30,551	--	30,551	--	--
TOTAL	8,138,062	660,348	8,798,410	225,509	6,816,412

^a Includes peeler cores and cants used by sawmills; blocks, boards, and bolts used by shake and shingle mills; and miscellaneous peeled products used by post, pole, and piling mills.

^b Includes residues from the sawmill, veneer and plywood, and shake and shingle industries, plus chips from roundwood chipping plants.

^c Southwest and West-Central combined to avoid disclosure.

^d Central and Blue Mountain combined to avoid disclosure.

Table 3--Log flows to mills by resource area, industry, and State, Oregon, 1988

RESOURCE AREA AND INDUSTRY	OREGON	WASHINGTON	CALIFORNIA	IDAHO	OTHER	ALL STATES
THOUSAND BOARD FEET, SCRIBNER LOG RULE						
NORTHWEST:						
LUMBER	1,267,067	158,057	--	10,750	--	1,435,874
VENEER AND PLYWOOD	289,980	32,934	--	--	--	322,914
PULP AND BOARD	63,200	9,800	--	--	--	73,000
SHAKE AND SHINGLE	3,919	320	--	--	--	4,239
EXPORT	186,394	51,712	200	--	586	238,892
POST, POLE, AND PILING	15,318	3,077	--	38	--	18,433
TOTAL	1,825,878	255,900	200	10,788	586	2,093,352
WEST-CENTRAL:						
LUMBER	1,441,035	1,200	--	--	--	1,442,235
VENEER AND PLYWOOD	782,913	--	--	--	--	782,913
PULP AND BOARD	--	--	--	--	--	--
SHAKE AND SHINGLE	8,265	--	--	--	--	8,265
EXPORT	119,673	1,070	--	--	--	120,743
POST, POLE, AND PILING ^a	4,077	--	--	--	--	4,077
TOTAL	2,355,963	2,270	--	--	--	2,358,233
SOUTHWEST:						
LUMBER	1,112,417	--	133,570	--	--	1,245,987
VENEER AND PLYWOOD	1,079,056	--	109,225	--	--	1,188,281
PULP AND BOARD	25,612	--	2,846	--	--	28,458
SHAKE AND SHINGLE	3,220	--	--	--	--	3,220
EXPORT	307,547	3,738	1,875	--	797	313,957
POST, POLE, AND PILING ^a	--	--	--	--	--	--
TOTAL	2,527,852	3,738	247,516	--	797	2,779,903
CENTRAL:						
LUMBER	616,803	7,414	30,337	1,655	--	656,209
VENEER AND PLYWOOD ^b	205,268	--	30,212	--	--	235,480
PULP AND BOARD	--	--	--	--	--	--
SHAKE AND SHINGLE	--	--	--	--	--	--
EXPORT	--	--	--	--	--	--
POST, POLE, AND PILING	8,041	--	--	--	--	8,041
TOTAL	830,112	7,414	60,549	1,655	--	899,730
BLUE MOUNTAIN:						
LUMBER	661,347	2,545	--	3,300	--	667,192
VENEER AND PLYWOOD ^b	--	--	--	--	--	--
PULP AND BOARD	--	--	--	--	--	--
TOTAL	661,347	2,545	--	3,300	--	667,192
ALL AREAS:						
LUMBER	5,098,669	169,216	163,907	15,705	--	5,447,497
VENEER AND PLYWOOD	2,357,217	32,934	139,437	--	--	2,529,588
PULP AND BOARD	88,812	9,800	2,846	--	--	101,458
SHAKE AND SHINGLE	15,404	320	--	--	--	15,724
EXPORT	613,614	56,520	2,075	--	1,383	673,592
POST, POLE, AND PILING	27,436	3,077	--	38	--	30,551
TOTAL	8,201,152	271,867	308,265	15,743	1,383	8,798,410

^a Southwest and West-Central combined to avoid disclosure.^b Central and Blue Mountain combined to avoid disclosure.

Table 4—Log flows by resource area, county of use, and county and out-of-State origin, Oregon, 1988

		NORTHWEST									
RESOURCE AREA AND COUNTY OF USE	TOTAL	CLACKAMAS	CLATSOP	COLUMBIA	HOOD RIVER	MARION	MULTNOMAH	POLK	TILLAMOOK	WASHINGTON	YAMHILL
THOUSAND BOARD FEET, SCRIBNER LOG RULE											
NORTHWEST:											
CLACKAMAS	439,102	216,255	997	20,000	8,000	19,098	19,232	--	18,048	19,209	11,157
CLATSOP	292,318	2,679	117,636	32,469	--	6,400	3,200	--	52,498	--	700
COLUMBIA	246,989	6,217	63,036	96,026	--	--	408	--	8,047	21,468	7,469
HOOD RIVER AND MULTNOMAH ^a	193,259	32,003	--	3,895	49,500	5,537	3,677	--	--	--	5,537
MARION AND POLK ^a	417,142	17,042	--	--	--	112,222	--	32,824	43,773	--	10,062
TILLAMOOK	83,954	--	129	--	--	--	--	2,100	34,622	4,200	28,000
WASHINGTON	136,900	--	11,800	10,400	--	--	560	4,800	23,560	38,990	24,440
YAMHILL	283,688	--	3,179	--	--	--	--	31,536	67,259	25,180	84,019
TOTAL	2,093,352	274,196	196,777	162,790	57,500	143,257	27,077	71,260	247,807	109,047	171,384
WEST-CENTRAL:											
BENTON	283,780	--	--	--	--	--	--	863	--	--	--
LANE ^b	1,477,719	120	--	45	--	165	--	4,016	1,360	--	3,012
LINCOLN	159,243	--	--	--	--	10,970	--	60,495	--	--	--
LINN	437,491	22,646	--	--	--	26,904	2,285	26,549	--	--	19,160
TOTAL	2,358,233	22,766	--	45	--	38,039	2,285	91,923	1,360	--	22,172
SOUTHWEST:											
COOS AND CURRY ^a	763,705	--	--	--	--	--	--	--	--	--	--
DOUGLAS	1,156,774	--	--	--	--	--	--	--	--	--	--
JACKSON	722,788	--	2,625	--	--	--	--	--	--	--	--
JOSEPHINE ^b	136,636	--	--	--	--	--	--	--	--	--	--
TOTAL	2,779,903	--	2,625	--	--	--	--	--	--	--	--
CENTRAL:											
CROOK	122,712	--	--	--	--	--	--	--	--	--	--
DESCHUTES AND JEFFERSON ^{a c}	157,427	--	--	--	--	--	--	--	--	--	--
KLAMATH	473,094	--	--	--	--	--	--	--	--	--	--
LAKE	75,475	--	--	--	--	--	--	--	--	--	--
WASCO	70,522	--	--	--	4,263	--	--	--	--	--	--
TOTAL	899,230	--	--	--	4,263	--	--	--	--	--	--
BLUE MOUNTAIN:											
BAKER AND WALLOWA ^a	150,832	--	--	--	--	--	--	--	--	--	--
GRANT AND HARNEY ^a	216,617	--	--	--	--	--	--	--	--	--	--
MORROW AND UMATILLA ^a	143,828	--	--	--	--	--	--	--	--	--	--
UNION ^c	156,415	--	--	--	--	--	--	--	--	--	--
TOTAL	667,692	--	--	--	--	--	--	--	--	--	--
ALL AREAS	8,798,410	296,962	199,402	162,835	61,763	181,296	29,362	163,183	249,167	109,047	193,556

See footnotes at end of table.

Table 4—Log flows by resource area, county of use, and county and out-of-State origin, Oregon, 1988 (continued)

RESOURCE AREA AND COUNTY OF USE	WEST-CENTRAL				SOUTHWEST					CENTRAL		
	BENTON	LANE	LINCOLN	LINN	COOS	CURRY	DOUGLAS	JACKSON	JOSEPHINE	CROOK	DESCHUTES	JEFFERSON
THOUSAND BOARD FEET, SCRIBNER LOG RULE												
NORTHWEST:												
CLACKAMAS	--	2,700	--	10,800	--	--	--	--	--	--	--	--
CLATSOP	--	--	--	256	--	--	--	--	--	--	--	--
COLUMBIA	--	--	--	--	--	--	--	--	--	--	--	--
HOOD RIVER AND MULTNOMAH ^a	13,418	20,887	--	1,933	40	80	--	--	--	--	--	--
MARION AND POLK ^a	11,798	30,459	77,963	67,560	--	--	--	--	--	--	8,200	--
TILLAMOOK	--	--	14,203	--	--	--	--	--	--	--	--	--
WASHINGTON	--	--	3,000	--	--	--	--	--	--	--	102	--
YAMHILL	7,209	--	63,676	--	--	--	--	--	--	--	--	--
TOTAL	32,425	54,046	158,842	80,549	40	80	--	--	--	--	8,302	--
WEST-CENTRAL:												
BENTON	113,833	83,836	76,260	7,788	--	--	--	--	--	--	--	--
LANE ^b	58,550	1,162,390	8,978	67,835	35,446	--	135,763	--	39	--	--	--
LINCOLN	17,750	17,191	36,767	15,000	--	--	--	--	--	--	--	--
LINN	28,179	116,147	18,179	176,692	--	--	--	--	--	--	750	--
TOTAL	218,312	1,379,564	140,184	267,315	35,446	--	135,763	--	39	--	750	--
SOUTHWEST:												
COOS AND CURRY ^a	--	29,960	--	--	386,997	167,112	129,220	5,636	2,840	--	--	--
DOUGLAS	--	30,122	--	1,250	116,069	650	805,453	59,176	74,287	--	14,261	--
JACKSON	--	--	--	--	--	7,764	16,466	390,123	48,604	--	--	--
JOSEPHINE ^b	--	--	--	--	--	7,062	2,285	41,033	73,162	--	--	--
TOTAL	--	60,082	--	1,250	503,066	182,588	953,424	495,968	198,893	--	14,261	--
CENTRAL:												
CROOK	--	--	--	--	--	--	--	--	--	54,974	21,403	5,632
DESCHUTES	--	--	--	--	--	--	--	--	--	--	--	--
JEFFERSON ^{a c}	--	--	--	--	--	--	--	--	--	12,684	21,911	23,825
KLAMATH	--	--	--	--	--	--	--	15,592	--	--	5,642	--
LAKE	--	--	--	--	--	--	--	--	--	--	--	--
WASCO	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL	--	--	--	--	--	--	--	15,592	--	67,658	48,956	29,457
BLUE MOUNTAIN:												
BAKER AND WALLOWA ^a	--	--	--	--	--	--	--	--	--	--	--	--
GRANT AND HARNEY ^a	--	--	--	--	--	--	--	--	--	--	50	--
MORROW AND UMATILLA ^a	--	--	--	--	--	--	--	--	--	--	--	--
UNION ^c	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL	--	--	--	--	--	--	--	--	--	--	50	--
ALL AREAS	250,737	1,493,692	299,026	349,114	538,552	182,668	1,089,187	511,560	198,932	67,658	72,319	29,457

See footnotes at end of table.

All Industries, Oregon

Table 4—Log flows by resource area, county of use, and county, and out-of-State origin, Oregon, 1988 (continued)

RESOURCE AREAS AND COUNTY OF USE	CENTRAL (CONTINUED)				BLUE MOUNTAIN								OUT-OF- STATE
	KLAMATH	LAKE	WASCO	WHEELER	BAKER	GRANT	HARNEY	MALHEUR	MORROW	UMATILLA	UNION	WALLOWA	
THOUSAND BOARD FEET, SCRIBNER LOG RULE													
NORTHWEST:													
CLACKAMAS	--	--	15,131	--	--	--	--	--	--	--	--	--	78,475
CLATSOP	--	--	2,679	--	--	--	--	--	--	--	--	--	73,801
COLUMBIA	--	--	--	--	--	--	--	--	--	--	--	--	44,318
HOOD RIVER AND MULTNOMAH ^a	--	--	7,500	--	--	--	--	--	--	--	--	--	49,252
MARION AND POLK ^a	--	--	--	--	5,179	--	--	--	--	--	--	--	60
TILLAMOOK	--	--	--	--	--	--	--	--	--	--	--	--	700
WASHINGTON	10	--	--	--	--	--	--	--	--	--	--	--	19,238
YAMHILL	--	--	--	--	--	--	--	--	--	--	--	--	1,630
TOTAL	10	--	25,310	--	5,179	--	--	--	--	--	--	--	267,474
WEST-CENTRAL:													
BENTON	--	--	--	--	--	--	--	--	--	--	--	--	1,200
LANE ^b	--	--	--	--	--	--	--	--	--	--	--	--	--
LINCOLN	--	--	--	--	--	--	--	--	--	--	--	--	1,070
LINN	--	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL	--	--	--	--	--	--	--	--	--	--	--	--	2,270
SOUTHWEST:													
COOS AND CURRY ^a	3,382	--	--	--	--	--	--	--	--	--	--	--	38,558
DOUGLAS	27,500	--	--	--	--	--	--	--	--	--	--	--	28,006
JACKSON	84,813	--	--	--	--	--	--	--	--	--	--	--	172,393
JOSEPHINE ^b	--	--	--	--	--	--	--	--	--	--	--	--	13,096
TOTAL	115,695	--	--	--	--	--	--	--	--	--	--	--	252,051
CENTRAL:													
CROOK	2,580	3,789	--	9,558	--	9,363	14,307	--	--	--	--	--	1,106
DESCHUTES AND JEFFERSON ^{a c}	6,907	4,558	44,675	--	--	--	--	--	--	10,717	17,147	15,003	--
KLAMATH	336,170	65,541	--	--	--	--	--	--	--	--	--	--	50,149
LAKE	--	65,075	--	--	--	--	--	--	--	--	--	--	10,400
WASCO	--	--	58,296	--	--	--	--	--	--	--	--	--	7,963
TOTAL	345,657	138,963	102,971	9,558	--	9,363	14,307	--	--	10,717	17,147	15,003	69,618
BLUE MOUNTAIN:													
BAKER AND WALLOWA ^a	--	--	--	--	45,000	15,000	--	--	--	--	24,251	66,581	--
GRANT AND HARNEY ^a	--	--	--	700	7,505	153,456	53,378	--	--	382	1,146	--	--
MORROW AND UMATILLA ^a	--	--	--	10,293	425	30,009	--	--	36,007	53,497	8,083	2,969	2,545
UNION ^c	--	--	--	--	45,817	436	--	14,498	--	--	63,788	28,576	3,300
TOTAL	--	--	--	10,993	98,747	198,901	53,378	14,498	36,007	53,879	97,268	98,126	5,845
ALL AREAS	461,362	138,963	128,281	20,551	103,926	208,264	67,685	14,498	36,007	64,596	114,415	113,129	597,258

^a Combined to avoid disclosure.

^b Lane County includes two post, pole, and piling operations from Josephine County, combined to avoid disclosure.

^c Deschutes and Jefferson Counties include 1 veneer and plywood mill from Union County, combined to avoid disclosure.

TABLE 5—Log flows to mills from National Forests, by resource area and county of use, Oregon, 1988

RESOURCE AREA AND COUNTY OF USE	DESCHUTES	FREMONT	MALHEUR	MOUNT HOOD	OCHOCO	ROGUE RIVER	SISKIYOU	SIUSLAU	UMATILLA	UMPQUA	WALLOWA- WHITMAN	WILLAMETTE	WINEMA	OUT-OF-STATE FORESTS	ALL FORESTS
THOUSAND BOARD FEET, SCRIBNER LOG RULE															
NORTHWEST:															
CLACKAMAS	--	--	--	166,435	--	--	--	1,447	--	--	--	10,767	--	73,394	252,043
CLATSOP	--	--	--	5,714	--	--	--	6,500	--	--	--	--	--	1,429	13,643
COLUMBIA	--	--	--	8,100	--	--	--	--	--	--	--	--	--	22,150	30,250
HOOD RIVER AND MULTNOMAH ^a	--	--	--	50,100	--	--	240	--	--	--	--	--	--	15,350	65,690
MARION AND POLK ^a	4,886	--	--	12,066	--	--	--	79,216	--	--	--	114,522	--	--	210,690
TILLAMOOK	--	--	--	--	--	--	--	21,126	--	--	--	--	--	--	21,126
WASHINGTON	--	--	--	--	--	--	--	3,600	--	--	--	--	--	9,600	13,200
YAMHILL	--	--	--	--	--	--	--	64,572	--	--	--	1,272	--	--	65,844
TOTAL	4,886	--	--	242,415	--	--	240	176,461	--	--	--	126,561	--	121,923	672,486
WEST-CENTRAL:															
BENTON	--	--	--	--	--	--	--	100,738	--	--	--	7,800	--	--	108,538
LANE ^b	--	--	--	--	--	--	1,879	88,712	--	56,913	--	545,486	--	--	692,990
LINCOLN	--	--	--	--	--	--	--	16,740	--	--	--	--	--	--	16,740
LINN	--	--	--	11,927	--	--	--	1,500	--	--	--	144,582	--	--	158,009
TOTAL	--	--	--	11,927	--	--	1,879	207,690	--	56,913	--	697,868	--	--	976,277
SOUTHWEST:															
COOS AND CURRY ^a	--	--	--	--	--	--	138,102	14,877	--	--	--	--	--	22,363	175,342
DOUGLAS	24,016	319	--	--	--	29,734	26,849	3,241	--	467,139	--	22,640	14,212	--	588,150
JACKSON	20,422	--	--	--	--	167,471	15,213	--	--	26,908	--	--	95,030	31,958	357,002
JOSEPHINE ^b	--	--	--	--	--	42,021	55,840	--	--	--	--	--	--	10,589	108,450
TOTAL	44,438	319	--	--	--	239,226	236,004	18,118	--	494,047	--	22,640	109,242	64,910	1,228,944
CENTRAL:															
CROOK	16,464	122	1,574	--	65,973	--	--	--	--	--	--	--	2,193	--	86,326
DESCHUTES AND JEFFERSON ^{a c}	15,922	1,695	236	--	13,530	--	--	--	8,723	--	14,618	--	5,153	--	59,877
KLAMATH	16,603	72,660	--	--	--	--	--	--	--	--	--	--	103,831	46,935	240,029
LAKE	--	61,975	--	--	--	--	--	--	--	--	--	--	--	--	61,975
WASCO	--	--	--	47,285	--	--	--	--	--	--	--	--	--	--	47,285
TOTAL	48,989	136,452	1,810	47,285	79,503	--	--	--	8,723	--	14,618	--	111,177	46,935	495,492
BLUE MOUNTAIN:															
BAKER AND WALLOWA ^a	--	--	12,681	--	--	--	--	--	13,494	--	85,544	--	--	--	111,719
GRANT AND HARNEY ^a	--	--	182,132	--	14,438	--	--	--	1,039	--	9,481	--	--	--	207,090
MORROW AND UMATILLA ^a	--	--	21,278	--	--	--	--	--	50,952	--	5,361	--	--	--	77,591
UNION ^c	--	--	4,399	--	--	--	--	--	29,102	--	54,925	--	--	--	88,426
TOTAL	--	--	220,490	--	14,438	--	--	--	94,587	--	155,311	--	--	--	484,826
ALL AREAS	98,313	136,771	222,300	301,627	93,941	239,226	238,123	402,269	103,310	550,960	169,929	847,069	220,419	233,768	3,858,025

^a Combined to avoid disclosure.^b Lane County includes two post, pole, and piling operations from Josephine County, combined to avoid disclosure.^c Deschutes and Jefferson Counties include 1 veneer and plywood mill from Union County, combined to avoid disclosure.

Table 6—Log flows to mills from National Forests, by resource area and industry, Oregon, 1988

RESOURCE AREA AND INDUSTRY	DESCHUTES	FREMONT	MALHEUR	MOUNT HOOD	OCHOCO	ROGUE RIVER	SISKIYOU	SIUSLAU	UMATILLA	UMPQUA	WALLOWA- WHITMAN	WILLAMETTE	WINEMA	OUT-OF-STATE FORESTS	ALL FORESTS
THOUSAND BOARD FEET, SCRIBNER LOG RULE															
NORTHWEST:															
LUMBER	3,136	--	--	200,319	--	--	--	158,467	--	--	--	88,571	--	97,524	548,017
VENEER AND PLYWOOD	1,750	--	--	33,064	--	--	--	17,467	--	--	--	37,990	--	24,079	114,350
PULP AND BOARD	--	--	--	7,200	--	--	--	--	--	--	--	--	--	--	7,200
SHAKE AND SHINGLE	--	--	--	1,832	--	--	--	527	--	--	--	--	--	320	2,679
EXPORT	--	--	--	--	--	--	240	--	--	--	--	--	--	--	240
POST, POLE, AND PILING	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL	4,886	--	--	242,415	--	--	240	176,461	--	--	--	126,561	--	121,923	672,486
WEST-CENTRAL:															
LUMBER	--	--	--	5,587	--	--	1,875	179,684	--	25,779	--	369,754	--	--	582,679
VENEER AND PLYWOOD	--	--	--	5,738	--	--	--	27,766	--	31,062	--	322,877	--	--	387,443
PULP AND BOARD	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--
SHAKE AND SHINGLE	--	--	--	602	--	--	--	240	--	--	--	4,127	--	--	4,969
EXPORT	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
POST, POLE, AND PILING ^a	--	--	--	--	--	--	4	--	--	72	--	1,110	--	--	1,186
TOTAL	--	--	--	11,927	--	--	1,879	207,690	--	56,913	--	697,868	--	--	976,277
SOUTHWEST:															
LUMBER	34,535	319	--	--	--	86,755	118,867	9,041	--	234,433	--	10,735	69,384	51,127	615,196
VENEER AND PLYWOOD	9,903	--	--	--	--	152,471	103,221	8,400	--	259,614	--	11,905	39,858	13,214	598,586
PULP AND BOARD	--	--	--	--	--	--	8,110	427	--	--	--	--	--	--	8,537
SHAKE AND SHINGLE	--	--	--	--	--	--	--	250	--	--	--	--	--	--	250
EXPORT	--	--	--	--	--	--	5,806	--	--	--	--	--	--	569	6,375
POST, POLE, AND PILING ^a	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL	44,438	319	--	--	--	239,226	236,004	18,118	--	494,047	--	22,640	109,242	64,910	1,228,944
CENTRAL:															
LUMBER	34,683	128,503	1,574	47,285	67,605	--	--	--	--	--	--	--	73,457	20,602	373,709
VENEER AND PLYWOOD ^b	11,898	7,945	236	--	11,898	--	--	--	8,723	--	14,618	--	36,146	26,333	117,797
PULP AND BOARD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
POST, POLE, AND PILING ^b	2,408	4	--	--	--	--	--	--	187	--	188	--	1,574	--	4,361
TOTAL	48,989	136,452	1,810	47,285	79,503	--	--	--	8,910	--	14,806	--	111,177	46,935	495,867
BLUE MOUNTAIN:															
LUMBER	--	--	220,490	--	14,438	--	--	--	94,400	--	155,123	--	--	--	484,451
VENEER AND PLYWOOD ^b	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
POST, POLE, AND PILING ^b	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL	--	--	220,490	--	14,438	--	--	--	94,400	--	155,123	--	--	--	484,451
ALL AREAS:															
LUMBER	72,354	128,822	222,064	253,191	82,043	86,755	120,742	347,192	94,400	260,212	155,123	469,060	142,841	169,253	2,604,052
VENEER AND PLYWOOD	23,551	7,945	236	38,802	11,898	152,471	103,221	53,633	8,723	290,676	14,618	372,772	76,004	63,626	1,218,176
PULP AND BOARD	--	--	--	7,200	--	--	8,110	427	--	--	--	--	--	--	15,737
SHAKE AND SHINGLE	--	--	--	2,434	--	--	--	1,017	--	--	--	4,127	--	320	7,898
EXPORT	--	--	--	--	--	--	6,046	--	--	--	--	--	--	569	6,615
POST, POLE, AND PILING	2,408	4	--	--	--	--	4	--	187	72	188	1,110	1,574	--	5,547
TOTAL	98,313	136,771	222,300	301,627	93,941	239,226	238,123	402,269	103,310	550,960	169,929	847,069	220,419	233,768	3,858,025

^a West-Central and Southwest combined to avoid disclosure.^b Central and Blue Mountain combined to avoid disclosure.

Table 7—Log consumption by mills, by resource area, industry, and owner, Oregon, 1988

RESOURCE AREA AND INDUSTRY	STATE	NATIONAL FOREST	BUREAU OF LAND MANAGEMENT	OTHER PUBLIC	FOREST INDUSTRY			
					OWN WOOD SUPPLY	OTHER WOOD SUPPLY	OTHER PRIVATE	ALL OWNERS
THOUSAND BOARD FEET, SCRIBNER LOG RULE								
NORTHWEST:								
LUMBER	92,115	548,017	173,614	28,635	166,963	280,620	145,910	1,435,874
VENEER AND PLYWOOD	17,440	114,350	29,299	2,686	91,020	18,065	50,054	322,914
PULP AND BOARD	--	7,200	--	--	31,500	12,600	21,700	73,000
SHAKE AND SHINGLE	500	2,679	71	51	--	938	--	4,239
EXPORT	20,610	240	--	4,229	4,160	184,396	25,257	238,892
POST, POLE, AND PILING	2,125	--	2,125	--	570	9,666	3,947	18,433
TOTAL	132,790	672,486	205,109	35,601	294,213	506,285	246,868	2,093,352
WEST-CENTRAL:								
LUMBER	44,337	582,679	236,991	1,700	258,495	185,961	132,072	1,442,235
VENEER AND PLYWOOD	2,250	387,443	131,908	500	76,196	129,723	54,893	782,913
PULP AND BOARD	--	--	--	--	--	--	--	--
SHAKE AND SHINGLE	--	4,969	916	--	516	1,403	461	8,265
EXPORT	500	--	500	--	--	103,423	16,320	120,743
POST, POLE, AND PILING ^a	--	1,186	943	--	--	1,054	894	4,077
TOTAL	47,087	976,277	371,258	2,200	335,207	421,564	204,640	2,358,233
SOUTHWEST:								
LUMBER	6,631	615,196	346,372	--	104,096	71,980	101,712	1,245,987
VENEER AND PLYWOOD	24,590	598,586	265,755	--	143,421	97,872	58,057	1,188,281
PULP AND BOARD	2,846	8,537	2,846	--	1,423	11,383	1,423	28,458
SHAKE AND SHINGLE	125	250	375	--	--	2,453	17	3,220
EXPORT	6,225	6,375	5,913	--	17,000	256,635	21,809	313,957
POST, POLE, AND PILING ^a	--	--	--	--	--	--	--	--
TOTAL	40,417	1,228,944	621,261	--	265,940	440,323	183,018	2,779,903
CENTRAL:								
LUMBER	3,263	373,709	3,732	42,782	124,568	69,021	39,134	656,209
VENEER AND PLYWOOD ^b	2,100	117,797	4,092	33,500	40,903	21,780	15,308	235,480
PULP AND BOARD	--	--	--	--	--	--	--	--
POST, POLE, AND PILING ^b	--	4,361	371	--	--	2,759	550	8,041
TOTAL	5,363	495,867	8,195	76,282	165,471	93,560	54,992	899,730
BLUE MOUNTAIN:								
LUMBER	--	484,451	600	2,120	63,708	4,492	111,821	667,192
VENEER AND PLYWOOD ^b	--	--	--	--	--	--	--	--
POST, POLE, AND PILING ^b	--	--	--	--	--	--	--	--
TOTAL	--	484,451	600	2,120	63,708	4,492	111,821	667,192
ALL AREAS:								
LUMBER	146,346	2,604,052	761,309	75,237	717,830	612,074	530,649	5,447,497
VENEER AND PLYWOOD	46,380	1,218,176	431,054	36,686	351,540	267,440	178,312	2,529,588
PULP AND BOARD	2,846	15,737	2,846	--	32,923	23,983	23,123	101,458
SHAKE AND SHINGLE	625	7,898	1,362	51	516	4,794	478	15,724
EXPORT	27,335	6,615	6,413	4,229	21,160	544,454	63,386	673,592
POST, POLE, AND PILING	2,125	5,547	3,439	--	570	13,479	5,391	30,551
TOTAL	225,657	3,858,025	1,206,423	116,203	1,124,539	1,466,224	801,339	8,798,410

^a West-Central and Southwest combined to avoid disclosure.^b Central and Blue Mountain combined to avoid disclosure.

Table 8--Log consumption by mills, by resource area, industry, and species, Oregon, 1988

RESOURCE AREA AND INDUSTRY	DOUGLAS-FIR	HEMLOCK	TRUE FIRS	SPRUCE	PONDEROSA PINE	LODGEPOLE PINE	WESTERN RED CEDAR	OTHER SOFTWOODS	RED ALDER	OTHER HARDWOODS	ALL SPECIES
THOUSAND BOARD FEET, SCRIBNER LOG RULE											
NORTHWEST:											
LUMBER	1,046,186	299,149	30,406	1	14	--	39,900	--	17,893	2,325	1,435,874
VENEER AND PLYWOOD	234,631	35,713	--	38,541	--	--	1,350	5,786	6,893	--	322,914
PULP AND BOARD	--	52,180	--	20,820	--	--	--	--	--	--	73,000
SHAKE AND SHINGLE	--	--	--	--	--	--	4,239	--	--	--	4,239
EXPORT	125,890	93,801	4,910	8,370	--	573	3,924	721	703	--	238,892
POST, POLE, AND PILING	18,306	--	--	--	23	104	--	--	--	--	18,433
TOTAL	1,425,013	480,843	35,316	67,732	37	677	49,413	6,507	25,489	2,325	2,093,352
WEST-CENTRAL:											
LUMBER	1,162,973	174,495	2,700	3,040	--	--	37,628	399	54,400	6,600	1,442,235
VENEER AND PLYWOOD	713,580	62,965	1,545	725	630	--	--	2,104	955	409	782,913
PULP AND BOARD	--	--	--	--	--	--	--	--	--	--	--
SHAKE AND SHINGLE	--	--	--	--	--	--	8,265	--	--	--	8,265
EXPORT	89,435	23,144	2,500	5,664	--	--	--	--	--	--	120,743
POST, POLE, AND PILING ^a	4,022	--	7	--	--	--	48	--	--	--	4,077
TOTAL	1,970,010	260,604	6,752	9,429	630	--	45,941	2,503	55,355	7,009	2,358,233
SOUTHWEST:											
LUMBER	774,223	79,125	61,440	21,105	178,769	17,750	44,463	67,712	1,250	150	1,245,987
VENEER AND PLYWOOD	890,012	110,094	110,971	3,210	13,557	6,486	2,517	37,542	13,892	--	1,188,281
PULP AND BOARD	--	--	--	--	--	--	--	--	18,213	10,245	28,458
SHAKE AND SHINGLE	--	--	--	--	--	--	3,220	--	--	--	3,220
EXPORT	251,049	25,176	8,545	7,100	--	--	--	22,087	--	--	313,957
POST, POLE, AND PILING ^a	--	--	--	--	--	--	--	--	--	--	--
TOTAL	1,915,284	214,395	180,956	31,415	192,326	24,236	50,200	127,341	33,355	10,395	2,779,903
CENTRAL:											
LUMBER	50,235	23,513	61,137	2,776	477,841	32,187	2,337	6,183	--	--	656,209
VENEER AND PLYWOOD ^b	73,876	18,962	129,012	3,429	--	4,200	--	6,001	--	--	235,480
PULP AND BOARD	--	--	--	--	--	--	--	--	--	--	--
POST, POLE, AND PILING ^b	--	--	--	--	151	7,890	--	--	--	--	8,041
TOTAL	124,111	42,475	190,149	6,205	477,992	44,277	2,337	12,184	--	--	899,730
BLUE MOUNTAIN:											
LUMBER	147,872	48,404	61,364	37,242	316,710	18,724	--	36,876	--	--	667,192
VENEER AND PLYWOOD ^b	--	--	--	--	--	--	--	--	--	--	--
POST, POLE, AND PILING ^b	--	--	--	--	--	--	--	--	--	--	--
TOTAL	147,872	48,404	61,364	37,242	316,710	18,724	--	36,876	--	--	667,192
ALL AREAS:											
LUMBER	3,181,489	624,686	217,047	64,164	973,334	68,661	124,328	111,170	73,543	9,075	5,447,497
VENEER AND PLYWOOD	1,912,099	227,734	241,528	45,905	14,187	10,686	3,867	51,433	21,740	409	2,529,588
PULP AND BOARD	--	52,180	--	20,820	--	--	--	--	18,213	10,245	101,458
SHAKE AND SHINGLE	--	--	--	--	--	--	15,724	--	--	--	15,724
EXPORT	466,374	142,121	15,955	21,134	--	573	3,924	22,808	703	--	673,592
POST, POLE, AND PILING	22,328	--	7	--	174	7,994	48	--	--	--	30,551
TOTAL	5,582,290	1,046,721	474,537	152,023	987,695	87,914	147,891	185,411	114,199	19,729	8,798,410

^a West-Central and Southwest combined to avoid disclosure.^b Central and Blue Mountain combined to avoid disclosure.

Table 9—Production and disposition of wood and bark residue by mills, by resource area, industry, and use, Oregon, 1988

RESOURCE AREA AND INDUSTRY	WOOD RESIDUE					
	USED ^a				UNUSED	ALL WOOD
	PULP AND BOARD	FUEL	MISCELLANEOUS	TOTAL		
TONS, DRY WEIGHT						
NORTHWEST:						
LUMBER	1,713,189	450,292	91,321	2,254,802	7	2,254,809
VENEER AND PLYWOOD	384,262	83,434	49,767	517,463	--	517,463
SHAKE AND SHINGLE	--	2,204	933	3,137	464	3,601
TOTAL	2,097,451	535,930	142,021	2,775,402	471	2,775,873
WEST-CENTRAL:						
LUMBER	1,490,317	610,001	79,788	2,180,106	--	2,180,106
VENEER AND PLYWOOD	821,348	305,760	120,261	1,247,369	--	1,247,369
SHAKE AND SHINGLE	955	3,695	1,136	5,786	1,660	7,446
TOTAL	2,312,620	919,456	201,185	3,433,261	1,660	3,434,921
SOUTHWEST:						
LUMBER	1,251,094	583,059	18,983	1,853,136	2,296	1,855,432
VENEER AND PLYWOOD	1,607,075	370,630	248,404	2,226,109	--	2,226,109
SHAKE AND SHINGLE	--	1,330	--	1,330	--	1,330
TOTAL	2,858,169	955,019	267,387	4,080,575	2,296	4,082,871
CENTRAL:						
LUMBER	418,902	287,860	25,517	732,279	14,169	746,448
VENEER AND PLYWOOD ^b	289,130	16,750	39,069	344,949	--	344,949
TOTAL	708,032	304,610	64,586	1,077,228	14,169	1,091,397
BLUE MOUNTAIN:						
LUMBER	488,064	346,147	28,828	863,039	1,529	864,568
VENEER AND PLYWOOD ^b	--	--	--	--	--	--
TOTAL	488,064	346,147	28,828	863,039	1,529	864,568
ALL AREAS:						
LUMBER	5,361,566	2,277,359	244,437	7,883,362	18,001	7,901,363
VENEER AND PLYWOOD	3,101,815	776,574	457,501	4,335,890	--	4,335,890
SHAKE AND SHINGLE	955	7,229	2,069	10,253	2,124	12,377
TOTAL	8,464,336	3,061,162	704,007	12,229,505	20,125	12,249,630

See footnotes at end of table.

Table 9--Production and disposition of wood and bark residue by mills, by resource area, industry and use, Oregon, 1988 (continued)

RESOURCE AREA AND INDUSTRY	BARK RESIDUE						
	USED ^a				UNUSED	ALL BARK	ALL RESIDUE
	PULP AND BOARD	FUEL	MISCELLANEOUS	TOTAL			
TONS, DRY WEIGHT							
NORTHWEST:							
LUMBER	29,501	350,151	242,776	622,428	1	622,429	2,877,238
VENEER AND PLYWOOD	--	134,931	12,256	147,187	--	147,187	664,650
SHAKE AND SHINGLE	--	1,289	69	1,358	147	1,505	5,106
TOTAL	29,501	486,371	255,101	770,973	148	771,121	3,546,994
WEST-CENTRAL:							
LUMBER	--	537,405	40,906	578,311	--	578,311	2,758,417
VENEER AND PLYWOOD	--	320,144	5,721	325,865	119	325,984	1,573,353
SHAKE AND SHINGLE	289	2,126	70	2,485	160	2,645	10,091
TOTAL	289	859,675	46,697	906,661	279	906,940	4,341,861
SOUTHWEST:							
LUMBER	19,256	472,591	11,443	503,290	--	503,290	2,358,722
VENEER AND PLYWOOD	--	537,488	31,482	568,970	--	568,970	2,795,079
SHAKE AND SHINGLE	--	790	--	790	--	790	2,120
TOTAL	19,256	1,010,869	42,925	1,073,050	--	1,073,050	5,155,921
CENTRAL:							
LUMBER	806	159,428	15,130	175,364	4,104	179,468	925,916
VENEER AND PLYWOOD ^b	--	91,416	--	91,416	--	91,416	436,365
TOTAL	809	250,844	15,130	266,780	4,104	270,884	1,362,271
BLUE MOUNTAIN:							
LUMBER	--	189,490	15,595	205,085	2,253	207,338	1,071,906
VENEER AND PLYWOOD ^b	--	--	--	--	--	--	--
TOTAL	--	189,490	15,595	205,085	2,253	207,338	1,071,906
ALL AREAS:							
LUMBER	49,563	1,709,065	325,850	2,084,478	6,358	2,090,836	9,992,199
VENEER AND PLYWOOD	--	1,083,979	49,459	1,133,438	119	1,133,557	5,469,447
SHAKE AND SHINGLE	289	4,205	139	4,633	307	4,940	17,317
TOTAL	49,852	2,797,249	375,448	3,222,549	6,784	3,229,333	15,478,963

^a Residues are not necessarily used in the area in which they are produced; includes residues exported from Oregon.

^b Central and Blue Mountain combined to avoid disclosure.

Table 10--Number of sawmills by resource area, county, and mill-size class, Oregon, 1988

RESOURCE AREA AND COUNTY	MILL-SIZE CLASS ^a				ALL CLASSES
	D	C	B	A	
NORTHWEST:					
CLACKAMAS	5	1	2	5	13
CLATSOP	1	--	--	1	2
COLUMBIA	2	--	--	4	6
HOOD RIVER	--	--	--	2	2
MARION	--	1	2	2	5
MULTNOMAH	--	--	--	2	2
POLK	3	--	--	4	7
TILLAMOOK	--	1	--	1	2
WASHINGTON	1	--	--	3	4
YAMHILL	1	--	--	2	3
TOTAL	13	3	4	26	46
WEST-CENTRAL:					
BENTON	--	--	2	5	7
LANE	2	1	4	14	21
LINCOLN	--	--	--	1	1
LINN	2	--	3	5	10
TOTAL	4	1	9	25	39
SOUTHWEST:					
COOS	3	1	2	2	8
CURRY	2	--	--	1	3
DOUGLAS	--	--	2	13	15
JACKSON	--	1	2	5	8
JOSEPHINE	1	--	--	3	4
TOTAL	6	2	6	24	38
CENTRAL:					
CROOK	--	--	2	2	4
DESCHUTES	1	1	--	--	2
JEFFERSON	--	--	1	--	1
KLAMATH	1	1	1	5	8
LAKE	--	--	3	1	4
WASCO	--	--	--	3	3
TOTAL	2	2	7	11	22
BLUE MOUNTAIN:					
BAKER	--	--	--	1	1
GRANT	1	1	2	2	6
HARNEY	--	--	--	1	1
MORROW	--	--	--	1	1
UMATILLA	--	1	--	2	3
UNION	--	--	1	4	5
WALLOWA	--	1	1	1	3
TOTAL	1	3	4	12	20
ALL AREAS	26	11	30	98	165

^a Class D mills = less than 40,000 board-foot capacity per 8-hour shift;
C = 40,000-79,999; B = 80,000-119,999; A = 120,000 or more.

Table 11--Installed 8-hour capacity of sawmills by resource area, county, and mill-size class, Oregon, 1988

RESOURCE AREA AND COUNTY	MILL-SIZE CLASS ^a				ALL CLASSES
	D	C	B	A	
<u>THOUSAND BOARD FEET, LUMBER TALLY</u>					
NORTHWEST:					
CLACKAMAS	57	60	180	1,230	1,527
CLATSOP	10	--	--	300	310
COLUMBIA	7	--	--	730	737
HOOD RIVER	--	--	--	405	405
MARION	--	40	190	475	705
MULTNOMAH	--	--	--	314	314
POLK	44	--	--	808	852
TILLAMOOK	--	50	--	290	340
WASHINGTON	18	--	--	660	678
YAMHILL	10	--	--	750	760
TOTAL	146	150	370	5,962	6,628
WEST-CENTRAL:					
BENTON	--	--	180	1,051	1,231
LANE	18	65	375	3,317	3,775
LINCOLN	--	--	--	170	170
LINN	52	--	270	795	1,117
TOTAL	70	65	825	5,333	6,293
SOUTHWEST:					
COOS	19	50	213	474	756
CURRY	28	--	--	200	228
DOUGLAS	--	--	200	2,845	3,045
JACKSON	--	75	168	1,250	1,493
JOSEPHINE	1	--	--	600	601
TOTAL	48	125	581	5,369	6,123
CENTRAL:					
CROOK	--	--	200	338	538
DESCHUTES	20	40	--	--	60
KLAMATH	25	75	100	1,210	1,410
LAKE	--	--	310	140	450
WASCO	--	--	--	557	557
TOTAL	45	115	710	2,245	3,115
BLUE MOUNTAIN:					
BAKER	--	--	--	290	290
GRANT	8	65	200	245	518
HARNEY	--	--	--	350	350
MORROW	--	--	--	250	250
UMATILLA	--	60	--	260	320
UNION	--	--	95	570	665
WALLOWA	--	75	80	140	295
TOTAL	8	200	375	2,105	2,688
ALL AREAS	317	655	2,861	21,014	24,847

^a Class D mills = less than 40,000 board-foot capacity per 8-hour shift;
C = 40,000-79,999; B = 80,000-119,999; A = 120,000 or more.

Table 12--Number of sawmills by resource area, selected equipment, and mill-size class, Oregon, 1988

RESOURCE AREA AND SELECTED EQUIPMENT	MILL-SIZE CLASS ^a				ALL CLASSES
	D	C	B	A	
NORTHWEST:					
BARKER	2	2	3	25	32
CHIPPER	4	3	4	25	36
PLANER	6	3	4	24	37
BURNER	--	--	--	--	--
KILN	1	2	1	12	16
WEST-CENTRAL:					
BARKER	1	1	8	24	34
CHIPPER	--	1	9	25	35
PLANER	2	1	9	25	37
BURNER	--	--	--	--	--
KILN	--	1	3	13	17
SOUTHWEST:					
BARKER	1	1	6	24	32
CHIPPER	2	1	5	23	31
PLANER	2	1	6	24	33
BURNER	--	--	--	2	2
KILN	2	1	4	16	23
CENTRAL:					
BARKER	--	2	6	11	19
CHIPPER	--	2	6	11	19
PLANER	--	2	6	10	18
BURNER	--	--	1	--	1
KILN	--	1	6	8	15
BLUE MOUNTAIN:					
BARKER	--	3	3	12	18
CHIPPER	--	3	4	11	18
PLANER	--	2	4	12	18
BURNER	--	--	--	--	--
KILN	--	1	2	10	13
ALL AREAS:					
BARKER	4	9	26	96	135
CHIPPER	6	10	28	95	139
PLANER	10	9	29	95	143
BURNER	--	--	1	2	3
KILN	3	6	16	59	84

^a Class D mills = less than 40,000 board-foot capacity per 8-hour shift;
 C = 40,000-79,999; B = 80,000-119,999; A = 120,000 or more.

Table 13—Number of sawmills by resource area, county, and selected equipment, Oregon, 1988

RESOURCE AREA AND COUNTY	BARKER	CHIPPER	PLANER	BURNER	KILN
NORTHWEST:					
CLACKAMAS	8	8	10	--	4
CLATSOP	1	1	1	--	1
COLUMBIA	4	3	3	--	--
HOOD RIVER	2	2	2	--	2
MARION	3	5	5	--	3
MULTNOMAH	1	2	2	--	--
POLK	5	7	5	--	2
TILLAMOOK	2	2	2	--	2
WASHINGTON	4	4	4	--	1
YAMHILL	2	2	3	--	1
TOTAL	32	36	37	--	16
WEST-CENTRAL:					
BENTON	7	7	7	--	4
LANE	18	19	20	--	9
LINCOLN	1	1	1	--	--
LINN	8	8	9	--	4
TOTAL	34	35	37	--	17
SOUTHWEST:					
COOS	4	4	5	--	4
CURRY	2	2	2	--	--
DOUGLAS	15	14	15	1	9
JACKSON	8	8	8	1	7
JOSEPHINE	3	3	3	--	3
TOTAL	32	31	33	2	23
CENTRAL:					
CROOK	4	4	4	--	4
DESCHUTES	1	1	1	--	--
JEFFERSON	1	1	1	--	1
KLAMATH	7	7	6	--	6
LAKE	3	3	3	1	3
WASCO	3	3	3	--	1
TOTAL	19	19	18	1	15
BLUE MOUNTAIN:					
BAKER	1	1	1	--	1
GRANT	4	4	5	--	4
HARNEY	1	1	1	--	1
MORROW	1	1	1	--	1
UMATILLA	3	3	3	--	2
UNION	5	5	5	--	3
WALLOWA	3	3	2	--	1
TOTAL	18	18	18	--	13
ALL AREAS	135	139	143	3	84

Table 14—Number of sawmills by resource area, mill-size class, and type and size of headrig,^a Oregon, 1988

RESOURCE AREAS AND MILL-SIZE CLASS ^b	CIRCULAR SAW					BAND SAW					GANG SAW			CHIPPING SAW			SCRAGG DOUBLE-CUT SAW		
	2 ft	4 ft	6 ft	8 ft	10+ ft	2 ft	4 ft	6 ft	8 ft	10+ ft	2 ft	3 ft	4 ft	2 ft	3 ft	4 ft	2 ft	3 ft	4 ft
NORTHWEST:																			
D	1	9	2	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
C	--	1	1	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--
B	--	--	--	--	--	--	--	4	--	--	--	--	--	--	--	--	--	--	--
A	--	--	--	--	--	1	10	12	1	--	--	--	--	2	1	--	4	--	--
TOTAL	1	10	3	1	--	1	11	16	1	--	--	--	--	2	1	--	4	--	--
WEST-CENTRAL:																			
D	--	--	1	1	--	--	--	--	--	--	1	--	--	1	--	--	--	--	--
C	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--
B	--	--	--	--	--	--	3	5	--	--	--	--	--	--	--	--	1	--	--
A	--	1	--	--	--	1	3	14	3	--	2	1	--	3	--	1	4	--	--
TOTAL	--	1	1	1	--	1	7	19	3	--	3	1	--	4	--	1	5	--	--
SOUTHWEST:																			
D	--	4	--	--	--	--	1	1	--	--	--	--	--	--	--	--	--	--	--
C	--	--	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
B	--	--	1	--	--	--	--	5	--	--	--	--	--	--	--	--	--	--	--
A	--	2	--	--	--	3	3	12	4	--	--	--	--	2	--	--	1	--	--
TOTAL	--	6	1	1	--	3	4	18	5	--	--	--	--	2	--	--	1	--	--
CENTRAL:																			
D	--	--	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
C	--	--	--	--	--	--	1	--	--	--	--	--	--	1	--	--	--	--	--
B	--	--	--	--	--	--	1	6	--	--	--	--	--	1	--	--	--	--	--
A	--	--	--	--	--	--	4	6	--	--	1	--	--	1	--	--	--	1	--
TOTAL	--	--	2	--	--	--	6	12	--	--	1	--	--	3	--	--	--	1	--
BLUE MOUNTAIN:																			
D	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
C	--	--	--	--	--	--	1	1	--	--	--	--	--	--	--	--	1	--	--
B	--	--	--	--	--	1	1	2	--	--	--	--	--	--	--	--	--	--	--
A	1	1	--	--	--	1	5	5	--	--	--	--	--	2	--	--	--	--	--
TOTAL	1	1	1	--	--	2	7	8	--	--	--	--	--	2	--	--	1	--	--
ALL AREAS:																			
D	1	13	6	2	--	--	1	1	--	--	1	--	--	1	--	--	--	--	--
C	--	1	1	1	--	--	4	1	1	--	--	--	--	1	--	--	1	--	--
B	--	--	1	--	--	1	5	22	--	--	--	--	--	1	--	--	1	--	--
A	1	4	--	--	--	6	25	49	8	--	3	1	--	10	1	1	9	1	--
TOTAL	2	18	8	3	--	7	35	73	9	--	4	1	--	13	1	1	11	1	--

^a Headrig sizes are upper limits; for example, the 6-foot size-class includes 49 through 72 inches.

^b Class D mills = less than 40,000 board-foot capacity per 8-hour shift; C = 40,000-79,999; B = 80,000-119,999; A = 120,000 or more.

Table 15--Number of sawmills by mill-size class, years at present site, and tenure of present owner, Oregon, 1988

MILL-SIZE CLASS ^a AND YEARS AT PRESENT SITE	TENURE OF PRESENT OWNER (YEARS)					ALL MILLS
	0-2	3-5	6-10	11-20	21 PLUS	
D:						
0-2	1	--	1	--	--	2
3-5	--	3	--	--	--	3
6-10	1	1	4	--	--	6
11-20	--	--	--	5	--	5
21 PLUS	2	--	1	1	6	10
TOTAL	4	4	6	6	6	26
C:						
0-2	1	--	--	--	--	1
3-5	--	--	--	--	--	--
6-10	--	1	--	--	--	1
11-20	--	--	--	1	--	1
21 PLUS	--	1	--	4	3	8
TOTAL	1	2	--	5	3	11
B:						
0-2	2	--	--	--	--	2
3-5	--	3	--	--	--	3
6-10	1	1	--	--	--	2
11-20	--	--	1	--	--	1
21 PLUS	2	3	--	4	13	22
TOTAL	5	7	1	4	13	30
A:						
0-2	--	--	--	--	--	--
3-5	--	4	--	--	--	4
6-10	1	1	2	--	--	4
11-20	3	1	3	8	--	15
21 PLUS	6	7	9	8	45	75
TOTAL	10	13	14	16	45	98
ALL CLASSES						
0-2	4	--	1	--	--	5
3-5	--	10	--	--	--	10
6-10	3	4	6	--	--	13
11-20	3	1	4	14	--	22
21 PLUS	10	11	10	17	67	115
TOTAL	20	26	21	31	67	165

^a Class D mills = less than 40,000 board-foot capacity per 8-hour shift;
C = 40,000-79,999; B = 80,000-119,999; A = 120,000 or more.

Table 16--Average number of operating days per year and average number of shifts per day by sawmills, by resource area and mill-size class, Oregon, 1988

RESOURCE AREA	MILL-SIZE CLASS ^a				ALL CLASSES
	D	C	B	A	
<u>DAYS PER YEAR</u>					
NORTHWEST	144	250	198	244	212
WEST-CENTRAL	174	252	237	245	236
SOUTHWEST	174	286	234	246	235
CENTRAL	268	211	235	233	235
BLUE MOUNTAIN	240	229	245	234	236
ALL AREAS ^b	169	244	232	242	229
<u>SHIFTS PER DAY</u>					
NORTHWEST	1.00	1.70	1.75	1.69	1.50
WEST-CENTRAL	1.00	1.00	1.44	1.68	1.54
SOUTHWEST	1.17	1.00	2.00	1.67	1.61
CENTRAL	1.00	2.50	1.43	1.36	1.45
BLUE MOUNTAIN	1.00	1.67	1.75	2.00	1.85
ALL AREAS ^b	1.04	1.64	1.63	1.68	1.57

^a Class D mills = less than 40,000 board-foot capacity per 8-hour shift; C = 40,000-79,999; B = 80,000-119,999; A = 120,000 or more.

^b Average of all mills within each mill-size class.

Table 17--Wood consumption by sawmills, by resource area, mill-size class, and type of material, Oregon, 1988

RESOURCE AREAS AND MILL-SIZE CLASS ^a	ROUNDWOOD			OTHER WOOD		
	SOUND LOGS	UTILITY LOGS	ALL ROUNDWOOD	PEELER CORES	CANTS	ALL WOOD
THOUSAND BOARD FEET, SCRIBNER LOG RULE						
NORTHWEST:						
D	10,104	144	10,248	--	147	10,395
C	29,918	--	29,918	--	--	29,918
B	36,432	37,499	73,931	--	--	73,931
A	1,305,515	16,262	1,321,777	38,211	--	1,359,988
TOTAL	1,381,969	53,905	1,435,874	38,211	147	1,474,232
WEST-CENTRAL:						
C AND D ^b	35,800	160	35,960	2,700	100	38,760
B	125,661	9,960	135,621	56,659	--	192,280
A	1,199,211	71,443	1,270,654	49,015	--	1,319,669
TOTAL	1,360,672	81,563	1,442,235	108,374	100	1,550,709
SOUTHWEST:						
D	5,018	735	5,753	--	--	5,753
C	20,380	200	20,580	--	--	20,580
B	141,970	3,294	145,264	5,000	--	150,264
A	1,037,978	36,412	1,074,390	22,815	3,500	1,100,705
TOTAL	1,205,346	40,641	1,245,987	27,815	3,500	1,277,302
CENTRAL:						
D	3,750	--	3,750	--	--	3,750
C	33,491	510	34,001	3,392	--	37,393
B	138,509	15,870	154,379	--	--	154,379
A	456,007	8,072	464,079	--	--	464,079
TOTAL	631,757	24,452	656,209	3,392	--	659,601
BLUE MOUNTAIN:						
C AND D ^b	60,643	2,450	63,093	--	--	63,093
B	88,145	1,452	89,597	--	--	89,597
A	439,179	75,323	514,502	--	--	514,502
TOTAL	587,967	79,225	667,192	--	--	667,192
ALL AREAS:						
D	54,672	1,039	55,711	2,700	247	58,658
C	144,432	3,160	147,592	3,392	--	150,984
B	530,717	68,075	598,792	61,659	--	660,451
A	4,437,890	207,512	4,645,402	110,041	3,500	4,758,943
TOTAL	5,167,711	279,786	5,447,497	177,792	3,747	5,629,036

^a Class D mills = less than 40,000 board-foot capacity per 8-hour shift;
C = 40,000-79,999; B = 80,000-119,999; A = 120,000 or more.

^b Combined to avoid disclosure.

Table 18—Log consumption by sawmills, by resource area, mill-size class, and age group of timber, Oregon, 1988

RESOURCE AREA AND MILL-SIZE CLASS ^a	100 YEARS AND OLDER	LESS THAN 100 YEARS	ALL AGE GROUPS
<u>THOUSAND BOARD FEET, SCRIBNER LOG RULE</u>			
NORTHWEST:			
D	569	9,679	10,248
C	15,287	14,631	29,918
B	67,452	6,479	73,931
A	527,687	794,090	1,321,777
TOTAL	610,995	824,879	1,435,874
WEST-CENTRAL:			
C AND D ^b	1,900	34,060	35,960
B	98,309	37,312	135,621
A	549,335	721,319	1,270,654
TOTAL	649,544	792,691	1,442,235
SOUTHWEST:			
D	2,893	2,860	5,753
C	20,464	116	20,580
B	134,415	10,849	145,264
A	759,472	314,918	1,074,390
TOTAL	917,244	328,743	1,245,987
CENTRAL:			
D	1,688	2,062	3,750
C	14,450	19,551	34,001
B	85,258	69,121	154,379
A	355,926	108,153	464,079
TOTAL	457,322	198,887	656,209
BLUE MOUNTAIN:			
C AND D ^b	52,459	10,634	63,093
B	58,649	30,948	89,597
A	286,992	227,510	514,502
TOTAL	398,100	269,092	667,192
ALL AREAS:			
D	7,050	48,661	55,711
C	102,660	44,932	147,592
B	444,083	154,709	598,792
A	2,479,412	2,165,990	4,645,402
TOTAL	3,033,205	2,414,292	5,447,497

^a Class D mills = less than 40,000 board-foot capacity per 8-hour shift;
C = 40,000-79,999; B = 80,000-119,999; A = 120,000 or more.

^b Combined to avoid disclosure.

Table 19--Log consumption by sawmills, by resource area, county of use, and age group of timber, Oregon, 1988

RESOURCE AREA AND COUNTY OF USE	(100 YEARS AND OLDER)	(LESS THAN 100 YEARS)	ALL AGE GROUPS
<u>THOUSAND BOARD FEET, SCRIBNER LOG RULE</u>			
NORTHWEST:			
CLACKAMAS	270,374	142,528	412,902
CLATSOP AND TILLAMOOK ^a	49,000	99,088	148,088
COLUMBIA	7,500	176,603	184,103
HOOD RIVER AND MULTNOMAH ^a	33,836	50,526	84,362
MARION	73,180	49,020	122,200
POLK	71,765	94,104	165,869
WASHINGTON	2,400	134,350	136,750
YAMHILL	102,940	78,660	181
TOTAL	610,995	824,879	1,435,874
WEST-CENTRAL:			
BENTON AND LINCOLN ^a	79,450	234,330	313,780
LANE	437,152	471,746	908,898
LINN	132,942	86,615	219,557
TOTAL	649,544	792,691	1,442,235
SOUTHWEST:			
COOS	83,539	16,720	100,259
CURRY	50,357	21,989	72,346
DOUGLAS	444,031	179,742	623,773
JACKSON	223,198	104,175	327,373
JOSEPHINE	116,119	6,117	122,236
TOTAL	917,244	328,743	1,245,987
CENTRAL:			
CROOK	95,860	26,852	122,712
DESCHUTES AND JEFFERSON ^a	11,500	29,601	41,101
KLAMATH	240,212	106,187	346,399
LAKE	41,376	34,099	75,475
WASCO	68,374	2,148	70,522
TOTAL	457,322	198,887	656,209
BLUE MOUNTAIN:			
BAKER AND WALLOWA ^a	59,453	91,379	150,832
GRANT AND HARNEY ^a	205,025	11,592	216,617
MORROW AND UMATILLA ^a	26,628	116,700	143,328
UNION	106,994	49,421	156,415
TOTAL	398,100	269,092	667,192
ALL AREAS	3,033,205	2,414,292	5,447,497

^a Combined to avoid disclosure.

Table 20--Log consumption by sawmills, by resource area, mill-size class, and owner, Oregon, 1988

RESOURCE AREAS AND MILL-SIZE CLASS ^a	STATE	NATIONAL FOREST	BUREAU OF LAND MANAGEMENT	OTHER PUBLIC	FOREST INDUSTRY			
					OWN WOOD SUPPLY	OTHER WOOD SUPPLY	OTHER PRIVATE	ALL OWNERS
THOUSAND BOARD FEET, SCRIBNER LOG RULE								
NORTHWEST:								
D	726	908	1,079	316	375	3,694	3,150	10,248
C	120	12,471	120	3,157	--	158	29,918	13,892
B	598	59,272	599	--	--	5,490	7,972	73,931
A	90,671	475,366	171,816	134,630	1,321,777	25,162	166,588	257,544
TOTAL	92,115	548,017	173,614	28,635	166,963	280,620	145,910	1,435,874
WEST-CENTRAL:								
C AND D ^b	5,300	5,160	1,700	1,700	13,600	1,700	6,800	35,960
B	--	66,393	31,457	--	7,150	15,632	14,989	135,621
A	39,037	511,126	203,834	--	237,745	168,629	110,283	1,270,654
TOTAL	44,337	582,679	236,991	1,700	258,495	185,961	132,072	1,442,235
SOUTHWEST:								
D	330	668	543	--	--	2,804	1,408	5,753
C	--	13,000	2,580	--	--	5,000	--	20,580
B	1,625	62,869	47,896	--	4,579	--	28,295	145,264
A	4,676	538,659	295,353	--	99,517	64,176	72,009	1,074,390
TOTAL	6,631	615,196	346,372	--	104,096	71,980	101,712	1,245,987
CENTRAL:								
D	138	1,524	238	--	--	825	1,025	3,750
C	--	25,756	--	--	--	7,990	255	34,001
B	--	88,193	--	35,000	--	7,037	24,149	154,379
A	3,125	258,236	3,494	7,782	124,568	53,169	13,705	464,079
TOTAL	3,263	373,709	3,732	42,782	124,568	69,021	39,134	656,209
BLUE MOUNTAIN:								
C AND D ^b	--	47,451	--	--	7,847	1,875	5,920	63,093
B	--	75,803	--	--	--	--	13,794	89,597
A	--	361,197	600	2,120	55,861	2,617	92,107	514,502
TOTAL	--	484,451	600	2,120	63,708	4,492	111,821	667,192
ALL AREAS:								
D	6,494	8,260	3,560	2,016	13,975	9,023	12,383	55,711
C	120	98,678	2,700	3,157	7,847	28,757	6,333	147,592
B	2,223	352,530	79,952	35,000	11,729	28,159	89,199	598,792
A	137,509	2,144,584	675,097	35,064	684,279	546,135	422,734	4,645,402
TOTAL	146,346	2,604,052	761,309	75,237	717,830	612,074	530,649	5,447,497

^a Class D mills = less than 40,000 board-foot capacity per 8-hour shift; C = 40,000-79,999; B = 80,000-119,999; A = 120,000 or more.

^b Combined to avoid disclosure.

Table 21—Log consumption by sawmills, by resource area, county of use, and owner, Oregon, 1988

RESOURCE AREA AND COUNTY OF USE	STATE	NATIONAL FOREST	BUREAU OF LAND MANAGENMT	OTHER PUBLIC	FOREST INDUSTRY		OTHER PRIVATE	ALL OWNERS
					OWN WOOD SUPPLY	OTHER WOOD SUPPLY		
					THOUSAND BOARD FEET, SCRIBNER LOG RULE			
NORTHWEST:								
CLACKAMAS	12,598	242,643	25,499	18,161	59,373	26,740	27,888	412,902
CLATSOP AND TILLAMOOK ^a	14,900	27,500	21,000	3,500	27,900	49,088	4,200	148,088
COLUMBIA	10,101	10,000	2,500	--	1,252	137,000	23,250	184,103
HOOD RIVER AND MULTNOMAH ^a	6,851	44,450	--	2,672	500	27,971	1,918	84,362
MARION	440	78,160	21,320	--	--	1,280	21,000	122,200
POLK	9,725	77,764	38,795	312	15,038	3,173	21,062	165,869
WASHINGTON	17,000	13,200	12,600	--	49,600	16,750	27,600	136,75
YAMHILL	20,500	54,300	51,900	3,990	13,300	18,618	18,992	181,600
TOTAL	92,115	548,017	173,614	28,635	166,963	280,620	145,910	1,435,874
WEST-CENTRAL:								
BENTON AND LINCOLN ^a	34,678	124,678	55,850	--	14,362	40,350	43,862	313,780
LANE	6,460	398,827	149,834	1,700	203,244	88,551	60,282	908,898
LINN	3,199	59,174	31,307	--	40,889	57,060	27,928	219,557
TOTAL	44,337	582,679	236,991	1,700	258,495	185,961	132,072	1,442,235
SOUTHWEST:								
COOS	5,509	7,111	17,456	--	58,084	1,649	10,450	100,259
CURRY	330	60,271	3,086	--	2,067	5,289	1,303	72,346
DOUGLAS	650	289,184	220,109	--	18,991	31,325	63,514	623,773
JACKSON	--	160,260	88,936	--	23,167	29,930	25,080	327,373
JOSEPHINE	142	98,370	16,785	--	1,787	3,787	1,365	122,236
TOTAL	6,631	615,196	346,372	--	104,096	71,980	101,712	1,245,987
CENTRAL:								
CROOK	--	86,326	369	1,474	8,917	14,807	10,819	122,712
DESCHUTES JEFFERSON ^a	--	4,231	100	35,000	--	765	1,005	41,101
KLAMATH	3,263	173,892	3,263	--	106,025	49,481	10,475	346,399
LAKE	--	61,975	--	--	250	--	13,250	75,475
WASCO	--	47,285	--	6,308	9,376	3,968	3,585	70,522
TOTAL	3,263	373,709	3,732	42,782	124,568	69,021	39,134	656,209
BLUE MOUNTAIN:								
BAKER AND WALLOWA ^a	--	111,719	600	--	7,422	--	31,091	150,832
GRANT AND HARNEY ^a	--	207,090	--	--	--	2,073	7,454	216,617
MORROW AND UMATILLA ^a	--	77,216	--	2,120	27,889	2,419	33,684	143,328
UNION	--	88,426	--	--	28,397	--	39,592	156,415
TOTAL	--	484,451	600	2,120	63,708	4,492	111,821	667,192
ALL AREAS	146,346	2,604,052	761,309	75,237	717,830	612,074	530,649	5,447,497

^a Combined to avoid disclosure.

Table 22—Dependency (%) of sawmills on timber by resource area, mill-size class, and owner, Oregon, 1988

RESOURCE AREA AND MILL-SIZE CLASS ^a	NATIONAL FOREST				STATE				BUREAU OF LAND MANAGEMENT			
	0%	1-32%	33-66%	67-100%	0%	1-32%	33-66%	67-100%	0%	1-32%	33-66%	67-100%
<u>NUMBER OF MILLS</u>												
NORTHWEST:												
D	12	--	1	--	10	2	--	1	11	2	--	--
C	2	--	--	1	2	1	--	--	2	1	--	--
B	--	--	1	3	3	1	--	--	2	2	--	--
A	5	10	5	5	11	12	2	--	11	12	2	--
TOTAL	19	10	7	9	26	16	2	1	26	17	2	--
WEST-CENTRAL:												
D	2	--	--	1	3	--	--	--	3	--	--	--
C	--	1	--	--	--	1	--	--	--	1	--	--
B	2	2	--	4	8	--	--	--	3	3	1	1
A	2	9	8	5	17	7	--	--	8	12	4	--
TOTAL	6	12	8	10	28	8	--	--	14	16	5	1
SOUTHWEST:												
D	2	3	--	1	5	1	--	--	3	3	--	--
C	1	--	1	--	2	--	--	--	--	1	--	1
B	1	1	2	2	5	1	--	--	--	4	2	--
A	1	6	11	6	20	4	--	--	3	9	11	1
TOTAL	5	10	14	9	32	6	--	--	6	17	13	2
CENTRAL:												
D	--	1	1	--	1	1	--	--	--	2	--	--
C	--	--	--	2	2	--	--	--	2	--	--	--
B	1	--	2	4	7	--	--	--	7	--	--	--
A	--	1	5	5	10	1	--	--	9	2	--	--
TOTAL	1	2	8	11	20	2	--	--	18	4	--	--
BLUE MOUNTAIN:												
D	--	--	1	--	1	--	--	--	1	--	--	--
C	--	--	1	2	3	--	--	--	3	--	--	--
B	--	--	1	3	4	--	--	--	4	--	--	--
A	--	--	6	6	12	--	--	--	11	1	--	--
TOTAL	--	--	9	11	20	--	--	--	19	1	--	--
ALL AREAS:												
D	16	4	3	2	20	4	--	1	18	7	--	--
C	3	1	2	5	9	2	--	--	7	3	--	1
B	4	3	6	16	27	2	--	--	16	9	3	1
A	8	26	35	27	70	24	2	--	42	36	17	1
TOTAL	31	34	46	50	126	32	2	1	83	55	20	3

See footnote at end of table.

Table 22--Dependency (%) of sawmills on timber by resource area, mill-size class, and owner, Oregon, 1988 (continued)

RESOURCE AREA AND MILL-SIZE CLASS ^a	FOREST INDUSTRY															
	OTHER PUBLIC				OWN WOOD SUPPLY				OTHER WOOD SUPPLY				OTHER PRIVATE			
	0%	1-32%	33-66%	67-100%	0%	1-32%	33-66%	67-100%	0%	1-32%	33-66%	67-100%	0%	1-32%	33-66%	67-100%
	NUMBER OF MILLS															
NORTHWEST:																
D	11	2	--	--	10	2	--	1	7	--	2	4	6	1	2	4
C	2	1	--	--	3	--	--	--	1	--	--	2	2	1	--	--
B	4	--	--	--	4	--	--	--	2	2	--	--	3	--	1	--
A	19	6	--	--	15	6	4	--	7	13	2	3	8	15	2	--
TOTAL	36	9	--	--	32	8	4	1	17	15	4	9	19	17	5	4
WEST-CENTRAL:																
D	3	--	--	--	3	--	--	--	2	--	--	1	3	--	--	--
C	--	1	--	--	--	--	1	--	1	--	--	--	--	1	--	--
B	8	--	--	--	5	2	1	--	4	3	--	1	4	3	1	--
A	24	--	--	--	12	7	4	1	6	15	1	2	13	10	1	--
TOTAL	35	1	--	--	20	9	6	1	13	18	1	4	20	14	2	--
SOUTHWEST:																
D	6	--	--	--	6	--	--	--	3	--	2	1	1	2	1	2
C	2	--	--	--	2	--	--	--	1	1	--	--	2	--	--	--
B	6	--	--	--	4	1	1	--	6	--	--	--	1	4	1	--
A	24	--	--	--	15	7	1	1	12	10	2	--	15	7	2	--
TOTAL	38	--	--	--	27	8	2	1	22	11	4	1	19	13	4	2
CENTRAL:																
D	2	--	--	--	2	--	--	--	1	1	--	--	--	1	--	1
C	2	--	--	--	2	--	--	--	--	2	--	--	1	1	--	--
B	6	--	--	1	7	--	--	--	6	1	--	--	4	2	1	--
A	8	3	--	--	2	7	2	--	6	5	--	--	5	5	1	--
TOTAL	18	3	--	1	13	7	2	--	13	9	--	--	10	9	2	1
BLUE MOUNTAIN:																
D	1	--	--	--	1	--	--	--	--	--	1	--	1	--	--	--
C	3	--	--	--	1	2	--	--	2	1	--	--	--	3	--	--
B	4	--	--	--	4	--	--	--	4	--	--	--	--	3	1	--
A	11	1	--	--	6	5	1	--	10	2	--	--	1	9	2	--
TOTAL	19	1	--	--	12	7	1	--	16	3	1	--	2	15	3	--
ALL AREAS:																
D	23	2	--	--	22	2	--	1	13	1	5	6	11	4	3	7
C	9	2	--	--	8	2	1	--	5	4	--	2	5	6	--	--
B	28	--	--	1	24	3	2	--	22	6	--	1	12	12	5	--
A	86	10	--	--	50	32	12	2	41	45	5	5	42	46	8	--
TOTAL	146	14	--	1	104	39	15	3	81	56	10	14	70	68	16	7

^a Class D mills = less than 40,000 board-foot capacity per 8-hour shift; C = 40,000-79,999; B = 80,000-119,999; A = 120,000 or more.

Table 23—Log consumption by sawmills, by resource area, mill-size class, and species, Oregon, 1988

RESOURCE AREA AND MILL-SIZE CLASS ^a	DOUGLAS-FIR	HEMLOCK	TRUE FIRS	SPRUCE	PONDEROSA PINE	LOGGEPOLE PINE	WESTERN REDCEDAR	OTHER SOFTWOODS	RED ALDER	OTHER HARDWOODS	ALL SPECIES
THOUSAND BOARD FEET, SCRIBNER LOG RULE											
NORTHWEST:											
D	1,003	8	9	1	14	--	3,127	--	4,841	1,245	10,248
C	3,157	11,840	789	--	--	--	--	--	13,052	1,080	29,918
B	24,230	33,748	100	--	--	--	15,853	--	--	--	73,931
A	1,017,796	253,553	29,508	--	--	--	20,920	--	--	--	1,321,777
TOTAL	1,046,186	299,149	30,406	1	14	--	39,900	--	17,893	2,325	1,435,874
WEST-CENTRAL:											
C AND D ^b	260	--	--	--	--	--	1,700	--	28,900	5,100	35,960
B	106,357	28,064	1,200	--	--	--	--	--	--	--	135,621
A	1,056,356	146,431	1,500	3,040	--	--	35,928	399	25,500	1,500	1,270,654
TOTAL	1,162,973	174,495	2,700	3,040	--	--	37,628	399	54,400	6,600	1,442,235
SOUTHWEST:											
D	635	330	495	495	--	--	1,028	1,370	1,250	150	5,753
C	580	--	--	--	--	16,000	--	4,000	--	--	20,580
B	40,927	--	--	--	80,823	--	9,267	14,247	--	--	145,264
A	732,081	78,795	60,945	20,610	97,946	1,750	34,168	48,095	--	--	1,074,390
TOTAL	774,223	79,125	61,440	21,105	178,769	17,750	44,463	67,712	1,250	150	1,245,987
CENTRAL:											
D	--	--	--	--	980	20	2,337	413	--	--	3,750
C	5,287	2,704	--	--	24,565	--	--	1,445	--	--	34,001
B	5,899	4,060	19,435	--	121,574	2,961	--	450	--	--	154,379
A	39,049	16,749	41,702	2,776	330,722	29,206	--	3,875	--	--	464,079
TOTAL	50,235	23,513	61,137	2,776	477,841	32,187	2,337	6,183	--	--	656,209
BLUE MOUNTAIN:											
C AND D ^b	4,841	1,280	3,750	4,602	47,470	1,050	--	100	--	--	63,093
B	28,095	6,419	5,187	430	44,623	3,209	--	1,634	--	--	89,597
A	114,936	40,705	52,427	32,210	224,617	14,465	--	35,142	--	--	514,502
TOTAL	147,872	48,404	61,364	37,242	316,710	18,724	--	36,876	--	--	667,192
ALL AREAS:											
D	1,898	338	504	496	994	20	8,192	1,783	34,991	6,495	55,711
C	13,865	15,824	4,539	4,602	72,035	17,050	--	5,545	13,052	1,080	147,592
B	205,508	72,291	25,922	430	247,020	6,170	25,120	16,331	--	--	598,792
A	2,960,218	536,233	186,082	58,636	653,285	45,421	91,016	87,511	25,500	1,500	4,645,402
TOTAL	3,181,489	624,686	217,047	64,164	973,334	68,661	124,328	111,170	73,543	9,075	5,447,497

^a Class D mills = less than 40,000 board-foot capacity per 8-hour shift; C = 40,000-79,999; B = 80,000-119,999; A = 120,000 or more.

^b Combined to avoid disclosure.

Table 24—Log consumption by sawmills, by resource area, county of use, and species, Oregon, 1988

RESOURCE AREA AND COUNTY OF USE	DOUGLAS-FIR	HEMLOCK	TRUE FIRS	SPRUCE	PONDEROSA PINE	LODGEPOLE PINE	WESTERN REDCEDAR	OTHER SOFTWOODS	RED ALDER	OTHER HARDWOODS	ALL SPECIES
THOUSAND BOARD FEET, SCRIBNER LOG RULE											
NORTHWEST:											
CLACKAMAS	292,714	83,588	17,838	1	14	--	18,717	--	10	20	412,902
CLATSOP AND TILLAMOOK ^a	54,750	80,250	--	--	--	--	94	--	12,994	--	148,088
COLUMBIA	159,402	5,600	--	--	--	--	19,101	--	--	--	184,103
HOOD RIVER											
MULTNOMAH ^a	49,600	27,654	7,108	--	--	--	--	--	--	--	84,362
MARION	76,300	44,600	100	--	--	--	--	--	120	1,080	122,200
POLK	131,196	29,219	--	--	--	--	60	--	4,769	625	165,869
WASHINGTON	105,214	24,248	5,360	--	--	--	1,928	--	--	--	136,750
YAMHILL	177,010	3,990	--	--	--	--	--	--	--	600	181,600
TOTAL	1,046,186	299,149	30,406	1	14	--	39,900	--	17,893	2,325	1,435,874
WEST-CENTRAL:											
BENTON AND LINCOLN ^a	271,560	1,720	1,500	--	--	--	12,000	--	25,500	1,500	313,780
LANE	770,269	77,262	--	3,040	--	--	23,928	399	28,900	5,100	908,898
LINN	121,144	95,513	1,200	--	--	--	1,700	--	--	--	219,557
TOTAL	1,162,973	174,495	2,700	3,040	--	--	37,628	399	54,400	6,600	1,442,235
SOUTHWEST:											
COOS	90,346	--	--	--	--	--	7,953	710	1,250	--	100,259
CURRY	69,226	330	495	495	--	--	990	660	--	150	72,346
DOUGLAS	421,066	73,289	10,050	20,610	48,240	1,750	34,168	14,600	--	--	623,773
JACKSON	104,461	4,794	50,895	--	123,729	16,000	1,352	26,142	--	--	327,373
JOSEPHINE	89,124	712	--	--	6,800	--	--	25,600	--	--	122,236
TOTAL	774,223	79,125	61,440	21,105	178,769	17,750	44,463	67,712	1,250	150	1,245,987
CENTRAL:											
CROOK	9,476	4,060	3,267	--	102,606	3,303	--	--	--	--	122,712
DESCHUTES AND JEFFERSON ^a	4,147	2,704	--	--	34,230	20	--	--	--	--	41,101
KLAMATH	10,415	--	30,671	2,500	267,619	27,874	2,337	4,983	--	--	346,399
LAKE	--	--	24,993	--	48,292	990	--	1,200	--	--	75,475
WASCO	26,197	16,749	2,206	276	25,094	--	--	--	--	--	70,522
TOTAL	50,235	23,513	61,137	2,776	477,841	32,187	2,337	6,183	--	--	656,209
BLUE MOUNTAIN:											
BAKER AND WALLOWA ^a	33,355	12,776	14,009	26,214	61,269	3,209	--	--	--	--	150,832
GRANT AND HARNEY ^a	21,863	18,234	917	--	173,800	1,703	--	100	--	--	216,617
MORROW AND UMATILLA ^a	54,634	2,544	30,460	5,019	48,059	2,612	--	--	--	--	143,328
UNION	38,020	14,850	15,978	6,009	33,582	11,200	--	36,776	--	--	156,415
TOTAL	147,872	48,404	61,364	37,242	316,710	18,724	--	36,876	--	--	667,192
ALL AREAS	3,181,489	624,686	217,047	64,164	973,334	68,661	124,328	111,170	73,543	9,075	5,447,497

^a Combined to avoid disclosure.

Table 25—Production and disposition of wood and bark residue by sawmills, by resource area and mill-size class, Oregon, 1988

RESOURCE AREAS AND MILL-SIZE CLASS ^a	WOOD RESIDUE			BARK RESIDUE			ALL RESIDUE		
	USED ^b	UNUSED	TOTAL	USED ^b	UNUSED	TOTAL	USED ^b	UNUSED	TOTAL
TONS, DRY WEIGHT									
NORTHWEST:									
D	18,425	7	18,432	7,536	1	7,537	25,961	8	25,969
C	32,377	--	32,377	11,483	--	11,483	43,860	--	43,860
B	85,073	--	85,073	24,046	--	24,046	109,119	--	109,119
A	2,118,927	--	2,118,927	579,363	--	579,363	2,698,290	--	2,698,290
TOTAL	2,254,802	7	2,254,809	622,428	1	622,429	2,877,230	8	2,877,238
WEST-CENTRAL:									
C AND D ^c	26,880	--	26,880	5,997	--	5,997	32,877	--	32,877
B	233,134	--	233,134	47,222	--	47,222	280,356	--	280,356
A	1,920,092	--	1,920,092	525,092	--	525,092	2,445,184	--	2,445,184
TOTAL	2,180,106	--	2,180,106	578,311	--	578,311	2,758,417	--	2,758,417
SOUTHWEST:									
D	5,573	460	6,033	2,092	--	2,092	7,665	460	8,125
C	19,552	--	19,552	5,289	--	5,289	24,841	--	24,841
B	215,394	--	215,394	57,740	--	57,740	273,134	--	273,134
A	1,612,617	1,836	1,614,453	438,169	--	438,169	2,050,786	1,836	2,052,622
TOTAL	1,853,136	2,296	1,855,432	503,290	--	503,290	2,356,426	2,296	2,358,722
CENTRAL:									
D	3,866	129	3,995	1,168	--	1,168	5,034	129	5,163
C	37,001	--	37,001	8,692	--	8,692	45,693	--	45,693
B	158,287	14,040	172,327	37,403	4,104	41,507	195,690	18,144	213,834
A	533,125	--	533,125	128,101	--	128,101	661,226	--	661,226
TOTAL	732,279	14,169	746,448	175,364	4,104	179,468	907,643	18,273	925,916
BLUE MOUNTAIN:									
C AND D ^c	70,689	--	70,689	18,053	--	18,053	88,742	--	88,742
B	102,471	--	102,471	26,041	--	26,041	128,512	--	128,512
A	689,879	1,529	691,408	160,991	2,253	163,244	850,870	3,782	854,652
TOTAL	863,039	1,529	864,568	205,085	2,253	207,338	1,068,124	3,782	1,071,906
ALL AREAS:									
D	54,744	596	55,340	16,793	1	16,794	71,537	597	72,134
C	159,619	--	159,619	43,517	--	43,517	203,136	--	203,136
B	794,359	14,040	808,399	192,452	4,104	196,556	986,811	18,144	1,004,955
A	6,874,640	3,365	6,878,005	1,831,716	2,253	1,833,969	8,706,356	5,618	8,711,974
TOTAL	7,883,362	18,001	7,901,363	2,084,478	6,358	2,090,836	9,967,840	24,359	9,992,199

^a Class D mills = less than 40,000 board-foot capacity per 8-hour shift; C = 40,000-79,999; B = 80,000-119,999; A = 120,000 or more.

^b Residues are not necessarily used in the area in which they are produced.

^c Combined to avoid disclosure.

Table 26--Production and disposition of wood residue by sawmills, by resource area, mill-size class, type of residue, and use, Oregon, 1988

COARSE RESIDUE ^b							
RESOURCE AREA AND MILL-SIZE CLASS ^a	USED ^c					UNUSED	TOTAL
	PULP	BOARD	FUEL	MISCELLANEOUS	TOTAL		
	TONS, DRY WEIGHT						
NORTHWEST:							
D	3,612	--	7,316	1,173	12,101	2	12,103
C	21,623	--	--	--	21,623	--	21,623
B	49,117	--	--	--	49,117	--	49,117
A	1,174,295	--	45,758	--	1,220,053	--	1,220,053
TOTAL	1,248,647	--	53,074	1,173	1,302,894	2	1,302,896
WEST-CENTRAL:							
C AND D ^d	13,743	--	1,723	32	15,498	--	15,498
B	103,857	--	31,093	531	135,481	--	135,481
A	944,595	--	150,693	1,007	1,096,295	--	1,096,295
TOTAL	1,062,195	--	183,509	1,570	1,247,274	--	1,247,274
SOUTHWEST:							
D	3,206	--	3	860	4,069	--	4,069
C	10,540	--	264	--	10,804	--	10,804
B	69,061	--	42,687	10,540	122,288	--	122,288
A	696,566	36,041	188,308	629	921,544	--	921,544
TOTAL	779,373	36,041	231,262	12,029	1,058,705	--	1,058,705
CENTRAL:							
D	--	--	2,514	--	2,514	129	2,643
C	20,295	--	--	--	20,295	--	20,295
B	60,263	--	24,386	--	84,649	9,288	93,937
A	209,185	5,547	65,868	9,312	289,912	--	289,912
TOTAL	289,743	5,547	92,768	9,312	397,370	9,417	406,787
BLUE MOUNTAIN:							
C AND D ^d	32,508	--	8,349	--	40,857	--	40,857
B	40,158	--	--	18,777	58,935	--	58,935
A	303,346	18,628	47,472	--	369,446	--	369,446
TOTAL	376,012	18,628	55,821	18,777	469,238	--	469,238
ALL AREAS:							
D	20,561	--	11,556	2,065	34,182	131	34,313
C	84,966	--	8,613	--	93,579	--	93,579
B	322,456	--	98,166	29,848	450,470	9,288	459,758
A	3,327,987	60,216	498,099	10,948	3,897,250	--	3,897,250
TOTAL	3,755,970	60,216	616,434	42,861	4,475,481	9,419	4,484,900

See footnotes at end of table.

Table 26—Production and disposition of wood residue by sawmills, by resource area, mill-size class, type of residue, and use, Oregon, 1988 (continued)

SHAVINGS						
USED ^c					UNUSED	TOTAL
PULP	BOARD	FUEL	MISCELLANEOUS	TOTAL		
TONS, DRY WEIGHT						
--	--	1,102	359	1,461	--	1,461
--	--	108	2,092	2,200	--	2,200
6,977	6,238	1,304	1,305	15,824	--	15,824
127,917	100,539	106,800	63,558	398,814	--	398,814
134,894	106,777	109,314	67,314	418,299	--	418,299
--	5,244	3	--	5,247	--	5,247
4,320	17,993	19,810	--	42,123	--	42,123
--	245,121	82,669	47,245	375,035	--	375,035
4,320	268,358	102,482	47,245	422,405	--	422,405
--	--	274	56	330	--	330
4,320	--	--	--	4,320	--	4,320
--	13,241	29,743	--	42,984	--	42,984
4,925	263,925	45,592	--	314,442	--	314,442
9,245	277,166	75,609	56	362,076	--	362,076
--	--	--	--	--	--	--
--	4,915	211	1,197	6,323	--	6,323
--	22,311	8,018	--	30,329	--	30,329
--	62,651	19,477	12,758	94,886	--	94,886
--	89,877	27,706	13,955	131,538	--	131,538
--	--	8,928	--	8,928	--	8,928
--	8,625	4,758	--	13,383	--	13,383
--	77,618	54,721	--	132,339	605	132,944
--	86,243	68,407	--	154,650	605	155,255
--	5,244	1,379	415	7,038	--	7,038
4,320	4,915	9,247	3,289	21,771	--	21,771
11,297	68,408	63,633	1,305	144,643	--	144,643
132,842	749,854	309,259	123,561	1,315,516	605	1,316,121
148,459	828,421	383,518	128,570	1,488,968	605	1,489,573

Table 26--Production and disposition of wood residue by sawmills, by resource area, mill-size class, type of residue, and use, Oregon, 1988 (continued)

RESOURCE AREA AND MILL-SIZE CLASS ^a	SAWDUST						
	USED ^c					UNUSED	TOTAL
	PULP	BOARD	FUEL	MISCELLANEOUS	TOTAL		
TONS, DRY WEIGHT							
NORTHWEST:							
D	1,428	--	2,333	1,102	4,863	5	4,868
C	--	--	4,365	4,189	8,554	--	8,554
B	5,940	216	10,714	3,262	20,132	--	20,132
A	188,633	26,654	270,492	14,281	500,060	--	500,060
TOTAL	196,001	26,870	287,904	22,834	533,609	5	533,614
WEST-CENTRAL:							
C AND D ^d	486	972	4,610	67	6,135	--	6,135
B	10,152	14,170	31,208	--	55,530	--	55,530
A	64,722	64,942	288,192	30,906	448,762	--	448,762
TOTAL	75,360	80,084	324,010	30,973	510,427	--	510,427
SOUTHWEST:							
D	--	--	--	1,174	1,174	460	1,634
C	4,320	--	--	108	4,428	--	4,428
B	--	--	50,122	--	50,122	--	50,12
A	--	144,949	226,066	5,616	376,631	1,836	378,467
TOTAL	4,320	144,949	276,188	6,898	432,355	2,296	434,651
CENTRAL:							
D	--	--	--	1,352	1,352	--	1,352
C	--	8,448	1,935	--	10,383	--	10,383
B	--	8,407	34,902	--	43,309	4,752	48,061
A	14,359	2,521	130,549	898	148,327	--	148,327
TOTAL	14,359	19,376	167,386	2,250	203,371	4,752	208,123
BLUE MOUNTAIN:							
C AND D ^d	1,637	--	18,823	444	20,904	--	20,904
B	--	--	20,546	9,607	30,153	--	30,153
A	5,544	--	182,550	--	188,094	924	189,018
TOTAL	7,181	--	221,919	10,051	239,151	924	240,075
ALL AREAS:							
D	1,914	972	6,943	3,695	13,524	465	13,989
C	5,957	8,448	25,123	4,741	44,269	--	44,269
B	16,092	22,793	147,492	12,869	199,246	4,752	203,998
A	273,258	239,066	1,097,849	51,701	1,661,874	2,760	1,664,634
TOTAL	297,221	271,279	1,277,407	73,006	1,918,913	7,977	1,926,890

^a Class D mills = less than 40,000 board-foot capacity per 8-hour shift; C = 40,000-79,999; B = 80,000-119,999; A = 120,000 or more.

^b Includes slabs, edgings, trim, and spur ends.

^c Residues are not necessarily used in the area in which they are produced.

^d Combined to avoid disclosure.

Table 26--Production and disposition of wood residue by sawmills, by resource area, mill-size class, type of residue, and use, Oregon, 1988 (continued)

ALL TYPES OF WOOD RESIDUE						
USED ^c						
PULP	BOARD	FUEL	MISCELLANEOUS	TOTAL	UNUSED	TOTAL
TONS, DRY WEIGHT						
5,040	--	10,751	2,634	18,425	7	18,432
21,623	--	4,473	6,281	32,377	--	32,377
62,034	6,454	12,018	4,567	85,073	--	85,073
1,490,845	127,193	423,050	77,839	2,118,927	--	2,118,927
1,579,542	133,647	450,292	91,321	2,254,802	7	2,254,809
14,229	6,216	6,336	99	26,880	--	26,880
118,329	32,163	82,111	531	233,134	--	233,134
1,009,317	310,063	521,554	79,158	1,920,092	--	1,920,092
1,141,875	348,442	610,001	79,788	2,180,106	--	2,180,106
3,206	--	277	2,090	5,573	460	6,033
19,180	--	264	108	19,552	--	19,552
69,061	13,241	122,552	10,540	215,394	--	215,394
701,491	444,915	459,966	6,245	1,612,617	1,836	1,614,453
792,938	458,156	583,059	18,983	1,853,136	2,296	1,855,432
--	--	2,514	1,352	3,866	129	3,995
20,295	13,363	2,146	1,197	37,001	--	37,001
60,263	30,718	67,306	--	158,287	14,040	172,327
223,544	70,719	215,894	22,968	533,125	--	533,125
304,102	114,800	287,860	25,517	732,279	14,169	746,448
34,145	--	36,100	444	70,689	--	70,689
40,158	8,625	25,304	28,384	102,471	--	102,471
308,890	96,246	284,743	--	689,879	1,529	691,408
383,193	104,871	346,147	28,828	863,039	1,529	864,568
22,475	6,216	19,878	6,175	54,744	596	55,340
95,243	13,363	42,983	8,030	159,619	--	159,619
349,845	91,201	309,291	44,022	794,359	14,040	808,399
3,734,087	1,049,136	1,905,207	186,210	6,874,640	3,365	6,878,005
4,201,650	1,159,916	2,277,359	244,437	7,883,362	18,001	7,901,363

Table 27--Production and disposition of bark residue by sawmills, by resource area, mill-size class, and use, Oregon, 1988

RESOURCE AREA AND MILL-SIZE CLASS ^a	USED ^b					UNUSED	ALL BARK
	PULP	BOARD	FUEL	MISCELLANEOUS	TOTAL		
TONS, DRY WEIGHT							
NORTHWEST:							
D	--	--	3,717	3,819	7,536	1	7,537
C	476	--	6,120	4,887	11,483	--	11,483
B	--	--	16,667	7,379	24,046	--	24,046
A	29,025	--	323,647	226,691	579,363	--	579,363
TOTAL	29,501	--	350,151	242,776	622,428	1	622,429
WEST-CENTRAL:							
C AND D ^c	--	--	5,982	15	5,997	--	5,997
B	--	--	46,577	645	47,222	--	47,222
A	--	--	484,846	40,246	525,092	--	525,092
TOTAL	--	--	537,405	40,906	578,311	--	578,311
SOUTHWEST:							
D	680	--	1,091	321	2,092	--	2,092
C	--	5,160	--	129	5,289	--	5,289
B	--	--	57,740	--	57,740	--	57,740
A	--	13,416	413,760	10,993	438,169	--	438,169
TOTAL	680	18,576	472,591	11,443	503,290	--	503,290
CENTRAL:							
D	--	--	1,168	--	1,168	--	1,168
C	--	--	8,692	--	8,692	--	8,692
B	403	403	36,597	--	37,403	4,104	41,507
A	--	--	112,971	15,130	128,101	--	128,101
TOTAL	403	403	159,428	15,130	175,364	4,104	179,468
BLUE MOUNTAIN:							
C AND D ^c	--	--	18,053	--	18,053	--	18,053
B	--	--	26,041	--	26,041	--	26,041
A	--	--	145,396	15,595	160,991	2,253	163,244
TOTAL	--	--	189,490	15,595	205,085	2,253	207,338
ALL AREAS:							
D	680	--	11,958	4,155	16,793	1	16,794
C	476	5,160	32,865	5,016	43,517	--	43,517
B	403	403	183,622	8,024	192,452	4,104	196,556
A	29,025	13,416	1,480,620	308,655	1,831,716	2,253	1,833,969
TOTAL	30,584	18,979	1,709,065	325,850	2,084,478	6,358	2,090,836

^a Class D mills = less than 40,000 board-foot capacity per 8-hour shift; C = 40,000-79,999; B = 80,000-119,999; A = 120,000 or more.

^b Residues are not necessarily used in the area in which they are produced.

^c Combined to avoid disclosure.

Table 28—Production and disposition of wood and bark residue by sawmills, by resource area and county, Oregon, 1988

RESOURCE AREA AND COUNTY	WOOD RESIDUE			BARK RESIDUE			ALL RESIDUE		
	USED ^a	UNUSED	TOTAL	USED ^a	UNUSED	TOTAL	USED ^a	UNUSED	TOTAL
TONS, DRY WEIGHT									
NORTHWEST:									
CLACKAMAS	555,837	--	555,837	160,323	--	160,323	716,160	--	716,160
CLATSOP AND TILLAMOOK ^b	252,616	--	252,616	71,194	--	71,194	323,810	--	323,810
COLUMBIA	235,955	2	235,957	70,331	1	70,332	306,286	3	306,289
HOOD RIVER, AND MULTNOMAH ^b	189,686	--	189,686	42,395	--	42,395	232,081	--	232,081
MARION	152,799	--	152,799	41,498	--	41,498	194,297	--	194,297
POLK	281,716	5	281,721	76,816	--	76,816	358,532	5	358,537
WASHINGTON	263,091	--	263,091	71,621	--	71,621	334,712	--	334,712
YAMHILL	323,102	--	323,102	88,250	--	88,250	411,352	--	411,352
TOTAL	2,254,802	7	2,254,809	622,428	1	622,429	2,877,230	8	2,877,238
WEST-CENTRAL:									
BENTON AND LINCOLN ^b	484,587	--	484,587	136,080	--	136,080	620,667	--	620,667
LANE	1,346,463	--	1,346,463	366,790	--	366,790	1,713,253	--	1,713,253
LINN	349,056	--	349,056	75,441	--	75,441	424,497	--	424,497
TOTAL	2,180,106	--	2,180,106	578,311	--	578,311	2,758,417	--	2,758,417
SOUTHWEST:									
COOS	164,336	460	164,796	45,508	--	45,508	209,844	460	210,304
CURRY	86,499	--	86,499	27,802	--	27,802	114,301	--	114,301
DOUGLAS	938,296	--	938,296	262,748	--	262,748	1,201,044	--	1,201,044
JACKSON	517,400	--	517,400	125,729	--	125,729	643,129	--	643,129
JOSEPHINE	146,605	1,836	148,441	41,503	--	41,503	188,108	1,836	189,944
TOTAL	1,853,136	2,296	1,855,432	503,290	--	503,290	2,356,426	2,296	2,358,722
CENTRAL:									
CROOK	140,617	--	140,617	33,335	--	33,335	173,952	--	173,952
DESCHUTES AND JEFFERSON ^b	43,925	129	44,054	10,103	--	10,103	54,028	129	54,157
KLAMATH	388,111	--	388,111	92,634	--	92,634	480,745	--	480,745
LAKE	71,369	14,040	85,409	16,981	4,104	21,085	88,350	18,144	106,494
WASCO	88,257	--	88,257	22,311	--	22,311	110,568	--	110,568
TOTAL	732,279	14,169	746,448	175,364	4,104	179,468	907,643	18,273	925,916
BLUE MOUNTAIN:									
BAKER AND WALLOWA ^b	182,212	--	182,212	46,145	--	46,145	228,357	--	228,357
GRANT AND HARNEY ^b	270,612	--	270,612	64,206	--	64,206	334,818	--	334,818
MORROW AND UMATILLA ^b	208,645	--	208,645	47,652	1,455	49,107	256,297	1,455	257,752
UNION	201,570	1,529	203,099	47,082	798	47,880	248,652	2,327	250,979
TOTAL	863,039	1,529	864,568	205,085	2,253	207,338	1,068,124	3,782	1,071,906
ALL AREAS	7,883,362	18,001	7,901,363	2,084,478	6,358	2,090,836	9,967,840	24,359	9,992,199

^a Residues are not necessarily used in the area or county in which they are produced.

^b Combined to avoid disclosure.

Table 29--Production and disposition of wood residue by sawmills, by resource area, county, type of residue, and use, Oregon, 1988

RESOURCE AREA AND COUNTY	COARSE ^a						
	USED ^b					UNUSED	TOTAL
	PULP	BOARD	FUEL	MISCELLANEOUS	TOTAL		
TONS, DRY WEIGHT							
CLACKAMAS	276,224	--	50,193	1,062	327,479	--	327,479
CLATSOP AND TILLAMOOK ^c	143,604	--	--	111	143,715	--	143,715
COLUMBIA	153,884	--	53	--	153,937	2	153,939
HOOD RIVER AND MULTNOMAH ^c	104,382	--	501	--	104,883	--	104,883
MARION	84,633	--	--	--	84,633	--	84,633
POLK	159,918	--	1,847	--	161,765	--	161,765
WASHINGTON	146,295	--	--	--	146,295	--	146,295
YAMHILL	179,707	--	480	--	180,187	--	180,187
TOTAL	1,248,647	--	53,074	1,173	1,302,894	2	1,302,896
WEST-CENTRAL: BENTON AND LINCOLN ^c	250,852	--	23,708	--	274,560	--	274,560
LANE	650,710	--	126,537	1,570	778,817	--	778,817
LINN	160,633	--	33,264	--	193,897	--	193,897
TOTAL	1,062,195	--	183,509	1,570	1,247,274	--	1,247,274
SOUTHWEST: COOS	43,621	--	52,939	553	97,113	--	97,113
CURRY	2,006	--	48,313	307	50,626	--	50,626
DOUGLAS	522,541	--	3,617	10,540	536,698	--	536,698
JACKSON	127,692	36,041	125,761	--	289,494	--	289,494
JOSEPHINE	83,513	--	632	629	84,774	--	84,774
TOTAL	779,373	36,041	231,262	12,029	1,058,705	--	1,058,705
CENTRAL: CROOK	63,477	5,547	4,122	2,296	75,442	--	75,442
DESCHUTES AND JEFFERSON ^c	20,095	--	3,265	--	23,360	129	23,489
KLAMATH	127,710	--	75,227	6,708	209,645	--	209,645
LAKE	28,276	--	10,154	--	38,430	9,288	47,718
WASCO	50,185	--	--	308	50,493	--	50,493
TOTAL	289,743	5,547	92,768	9,312	397,370	9,417	406,787
BLUE MOUNTAIN: BAKER AND WALLOWA ^c	85,656	--	--	18,777	104,433	--	104,433
GRANT AND HARNEY ^c	78,342	18,628	48,339	--	145,309	--	145,309
MORROW AND UMATILLA ^c	103,654	--	7,482	--	111,136	--	111,136
UNION	108,360	--	--	--	108,360	--	108,360
TOTAL	376,012	18,628	55,821	18,777	469,238	--	469,238
ALL AREAS	3,755,970	60,216	616,434	42,861	4,475,481	9,419	4,484,900

See footnotes at end of table.

Table 29--Production and disposition of wood residue by sawmills, by resource area, county, type of residue, and use, Oregon, 1988 (continued)

SHAVINGS						
USED ^b					UNUSED	TOTAL
PULP	BOARD	FUEL	MISCELLANEOUS	TOTAL		
TONS, DRY WEIGHT						
15,142	36,420	30,949	11,624	94,135	--	94,135
4,700	7,050	38,535	--	50,285	--	50,285
18,921	--	--	2	18,923	--	18,923
30,647	4,104	7,064	--	41,815	--	41,815
8,748	6,238	18,468	46	33,500	--	33,500
3,758	35,685	14,289	--	53,732	--	53,732
52,978	3,510	--	346	56,834	--	56,834
--	13,770	9	55,296	69,075	--	69,075
134,894	106,777	109,314	67,314	418,299	--	418,299
4,320	75,081	9,054	9,612	98,067	--	98,067
--	153,704	74,595	20,353	248,652	--	248,652
--	39,573	18,833	17,280	75,686	--	75,686
4,320	268,358	102,482	47,245	422,405	--	422,405
--	26,527	1,328	56	27,911	--	27,911
--	--	15,125	--	15,125	--	15,125
4,925	176,478	220	--	181,623	--	181,623
4,320	45,240	58,936	--	108,496	--	108,496
--	28,921	--	--	28,921	--	28,921
9,245	277,166	75,609	56	362,076	--	362,076
--	18,500	3,618	4,459	26,577	--	26,577
--	--	7,351	1,197	8,548	--	--
--	51,675	11,232	8,299	71,206	--	71,206
--	8,116	5,161	--	13,277	--	13,277
--	11,586	344	--	11,930	--	11,930
--	89,877	27,706	13,955	131,538	--	131,538
--	13,133	11,215	--	24,348	--	24,348
--	30,708	20,251	--	50,959	--	50,959
--	22,242	18,407	--	40,649	--	40,649
--	20,160	18,534	--	38,694	605	39,299
--	86,243	68,407	--	154,650	605	155,255
148,459	828,421	383,518	128,570	1,488,968	605	1,489,573

Table 29--Production and disposition of wood residue by sawmills, by resource area, county, type of residue, and use, Oregon, 1988 (continued)

RESOURCE AREA AND COUNTY	SAWDUST						
	USED ^b					UNUSED	TOTAL
	PULP	BOARD	FUEL	MISCELLANEOUS	TOTAL		
TONS, DRY WEIGHT							
NORTHWEST:							
CLACKAMAS	36,720	18,360	65,243	13,900	134,223	--	134,223
CLATSOP AND TILLAMOOK ^c	5,530	8,294	44,748	44	58,616	--	58,616
COLUMBIA	56,160	--	6,934	1	63,095	--	63,095
HOOD RIVER AND MULTNOMAH ^c	35,575	--	3,309	4,104	42,988	--	42,988
MARION	15,660	216	18,693	97	34,666	--	34,666
POLK	14,388	--	47,544	4,287	66,219	5	66,224
WASHINGTON	17,280	--	42,336	346	59,962	--	59,962
YAMHILL	14,688	--	59,097	55	73,840	--	73,840
TOTAL	196,001	26,870	287,904	22,834	533,609	5	533,614
WEST-CENTRAL:							
BENTON AND LINCOLN ^c	19,008	4,320	83,232	5,400	111,960	--	111,960
LANE	38,617	72,200	184,391	23,786	318,994	--	318,994
LINN	17,735	3,564	56,387	1,787	79,473	--	79,473
TOTAL	75,360	80,084	324,010	30,973	510,427	--	510,427
SOUTHWEST:							
COOS	--	12,960	26,017	335	39,312	460	39,772
CURRY	--	--	19,802	946	20,748	--	20,748
DOUGLAS	--	80,602	139,373	--	219,975	--	219,975
JACKSON	4,320	46,492	68,598	--	119,410	--	119,410
JOSEPHINE	--	4,895	22,398	5,617	32,910	1,836	34,746
TOTAL	4,320	144,949	276,188	6,898	432,355	2,296	434,651
CENTRAL:							
CROOK	--	8,407	30,191	--	38,598	--	38,598
DESCHUTES AND JEFFERSON ^c	--	--	11,753	264	12,017	--	12,017
KLAMATH	--	10,969	95,203	1,088	107,260	--	107,260
LAKE	--	--	19,662	--	19,662	4,752	24,414
WASCO	14,359	--	10,577	898	25,834	--	25,834
TOTAL	14,359	19,376	167,386	2,250	203,371	4,752	208,123
BLUE MOUNTAIN:							
BAKER AND WALLOWA ^c	1,637	--	42,187	9,607	53,431	--	53,431
GRANT AND HARNEY ^c	--	--	73,900	444	74,344	--	74,344
MORROW AND UMATILLA ^c	--	--	56,860	--	56,860	--	56,860
UNION	5,544	--	48,972	--	54,516	924	55,440
TOTAL	7,181	--	221,919	10,051	239,151	924	240,075
ALL AREAS	297,221	271,279	1,277,407	73,006	1,918,913	7,977	1,926,890

^a Coarse residue includes slabs, edgings, trim, and spur ends.

^b Residues are not necessarily used in the area or county in which they are produced.

^c Combined to avoid disclosure.

Table 29--Production and disposition of wood residue by sawmills, by resource area, county, type of residue, and use, Oregon, 1988 (continued)

ALL TYPES OF WOOD RESIDUE						
USED ^b					UNUSED	TOTAL
PULP	BOARD	FUEL	MISCELLANEOUS	TOTAL		
TONS, DRY WEIGHT						
328,086	54,780	146,385	26,586	555,837	--	555,837
153,834	15,344	83,283	155	252,616	--	252,616
228,965	--	6,987	3	235,955	2	235,957
170,604	4,104	10,874	4,104	189,686	--	189,686
109,041	6,454	37,161	143	152,799	--	152,799
178,064	35,685	63,680	4,287	281,716	5	281,721
216,553	3,510	42,336	692	263,091	--	263,091
194,395	13,770	59,586	55,351	323,102	--	323,102
1,579,542	133,647	450,292	91,321	2,254,802	7	2,254,809
274,180	79,401	115,994	15,012	484,587	--	484,587
689,327	225,904	385,523	45,709	1,346,463	--	1,346,463
178,368	43,137	108,484	19,067	349,056	--	349,056
1,141,875	348,442	610,001	79,788	2,180,106	--	2,180,106
43,621	39,487	80,284	944	164,336	460	164,796
2,006	--	83,240	1,253	86,499	--	86,499
527,466	257,080	143,210	10,540	938,296	--	938,296
136,332	127,773	253,295	--	517,400	--	517,400
83,513	33,816	23,030	6,246	146,605	1,836	148,441
792,938	458,156	583,059	18,983	1,853,136	2,296	1,855,432
63,477	32,454	37,931	6,755	140,617	--	140,617
20,095	--	22,369	1,461	43,925	129	44,054
127,710	62,644	181,662	16,095	388,111	--	388,111
28,276	8,116	34,977	--	71,369	14,040	85,409
64,544	11,586	10,921	1,206	88,257	--	88,257
304,102	114,800	287,860	25,517	732,279	14,169	746,448
87,293	13,133	53,402	28,384	182,212	--	182,212
78,342	49,336	142,490	444	270,612	--	270,612
103,654	22,242	82,749	--	208,645	--	208,645
113,904	20,160	67,506	--	201,570	1,529	203,099
383,193	104,871	346,147	28,828	863,039	1,529	864,568
4,201,650	1,159,916	2,277,359	244,437	7,883,362	18,001	7,901,363

Table 30—Production and disposition of bark residue by sawmills, by resource area, county, and use, Oregon, 1988

RESOURCE AREA AND COUNTY	USED ^a					UNUSED	ALL BARK
	PULP	BOARD	FUEL	MISCELLANEOUS	TOTAL		
	TONS, DRY WEIGHT						
NORTHWEST:							
CLACKAMAS	--	--	64,868	95,455	160,323	--	160,323
CLATSOP AND TILLAMOOK ^b	--	--	71,136	58	71,194	--	71,194
COLUMBIA	13,545	--	56,786	--	70,331	1	70,332
HOOD RIVER AND MULTNOMAH ^b	--	--	15,692	26,703	42,395	--	42,395
MARION	476	--	37,539	3,483	41,498	--	41,498
POLK	--	--	54,580	22,236	76,816	--	76,816
WASHINGTON	15,480	--	49,278	6,863	71,621	--	71,621
YAMHILL	--	--	272	87,978	88,250	--	88,250
TOTAL	29,501	--	350,151	242,776	622,428	1	622,429
WEST-CENTRAL:							
BENTON AND LINCOLN ^b	--	--	135,435	645	136,080	--	136,080
LANE	--	--	330,239	36,551	366,790	--	366,790
LINN	--	--	71,731	3,710	75,441	--	75,441
TOTAL	--	--	537,405	40,906	578,311	--	578,311
SOUTHWEST:							
COOS	680	--	44,428	400	45,508	--	45,508
CURRY	--	--	27,754	48	27,802	--	27,802
DOUGLAS	--	--	262,748	--	262,748	--	262,748
JACKSON	--	5,160	115,731	4,838	125,729	--	125,729
JOSEPHINE	--	13,416	21,930	6,157	41,503	--	41,503
TOTAL	680	18,576	472,591	11,443	503,290	--	503,290
CENTRAL:							
CROOK	403	403	32,529	--	33,335	--	33,335
DESCHUTES AND JEFFERSON ^b	--	--	10,103	--	10,103	--	10,103
KLAMATH	--	--	77,814	14,820	92,634	--	92,634
LAKE	--	--	16,981	--	16,981	4,104	21,085
WASCO	--	--	22,001	310	22,311	--	22,311
TOTAL	403	403	159,428	15,130	175,364	4,104	179,468
BLUE MOUNTAIN:							
BAKER AND WALLOWA ^b	--	--	30,550	15,595	46,145	--	46,145
GRANT AND HARNEY ^b	--	--	64,206	--	64,206	--	64,206
MORROW AND UMATILLA ^b	--	--	47,652	--	47,652	1,455	49,107
UNION	--	--	47,082	--	47,082	798	47,880
TOTAL	--	--	189,490	15,595	205,085	2,253	207,338
ALL AREAS	30,584	18,979	1,709,065	325,850	2,084,478	6,358	2,090,836

^a Residues are not necessarily used in the area or county in which they are produced.^b Combined to avoid disclosure.

Table 31--Lumber production by sawmills, by resource area, mill-size class, and degree of manufacture, Oregon, 1988

RESOURCE AREA AND MILL-SIZE CLASS ^a	GREEN	KILN-DRIED	AIR-DRIED	TOTAL ^b	ROUGH	SURFACED
THOUSAND BOARD FEET, LUMBER TALLY						
NORTHWEST:						
D	21,899	40	83	22,022	15,262	6,760
C	19,116	19,227	--	38,343	28,171	10,172
B	79,702	13,500	--	93,202	19,941	73,261
A	1,848,294	466,799	--	2,315,093	468,724	1,846,369
TOTAL	1,969,011	499,566	83	2,468,660	532,098	1,936,562
WEST-CENTRAL:						
C AND D ^c	12,430	15,000	--	27,430	3,417	24,013
B	240,110	16,970	--	257,080	62,068	195,012
A	1,547,537	498,408	29,325	2,075,270	339,670	1,735,600
TOTAL	1,800,077	530,378	29,325	2,359,780	405,155	1,954,625
SOUTHWEST:						
D	4,977	2,449	--	7,426	5,894	1,532
C	500	20,000	--	20,500	500	20,000
B	92,417	139,630	--	232,047	33,047	199,000
A	1,013,688	709,169	29,300	1,752,157	296,405	1,455,752
TOTAL	1,111,582	871,248	29,300	2,012,130	335,846	1,676,284
CENTRAL:						
D	4,122	--	1,000	5,122	5,122	--
C	13,731	25,600	--	39,331	6,400	32,931
B	22,497	158,650	900	182,047	24,083	157,964
A	62,000	498,143	1,700	561,843	67,649	494,194
TOTAL	102,350	682,393	3,600	788,343	103,254	685,089
BLUE MOUNTAIN:						
C AND D ^c	36,694	32,000	10,486	79,180	32,680	46,500
B	28,188	84,728	1,300	114,216	44,516	69,700
A	129,150	532,631	54,200	715,981	23,566	692,415
TOTAL	194,032	649,359	65,986	909,377	100,762	808,615
ALL AREAS:						
D	43,428	17,489	1,083	62,000	29,695	32,305
C	70,041	96,827	10,486	177,354	67,751	109,603
B	462,914	413,478	2,200	878,592	183,655	694,937
A	4,600,669	2,705,150	114,525	7,420,344	1,196,014	6,224,330
TOTAL	5,177,052	3,232,944	128,294	8,538,290	1,477,115	7,061,175

^a Class D mills = less than 40,000 board-foot capacity per 8-hour shift; C = 40,000-79,999; B = 80,000-119,999; A = 120,000 or more.

^b Total of "Green," "Kiln-dried," and "Air-dried"; also, total of "Rough" and "Surfaced."

^c Combined to avoid disclosure.

Table 32—Lumber production by sawmills, by resource area, mill-size class, and type of headrig, Oregon, 1988

RESOURCE AREA AND MILL-SIZE CLASS ^a	CIRCULAR SAW	BAND SAW	GANG SAW	CHIPPING SAW	SCRAGG DOUBLE-CUT SAW	ALL TYPES
THOUSAND BOARD FEET, LUMBER TALLY						
NORTHWEST:						
D	22,022	--	--	--	--	22,022
C	19,400	18,943	--	--	--	38,343
B	--	93,202	--	--	--	93,202
A	--	2,064,118	--	173,529	77,446	2,315,093
TOTAL	41,422	2,176,263	--	173,529	77,446	2,468,660
WEST-CENTRAL:						
C AND D ^b	310	15,000	3,120	9,000	--	27,430
B	--	224,600	--	--	32,480	257,080
A	16,000	1,540,732	68,574	227,944	222,020	2,075,270
TOTAL	16,310	1,780,332	71,694	236,944	254,500	2,359,780
SOUTHWEST:						
D	1,196	6,230	--	--	--	7,426
C	500	20,000	--	--	--	20,500
B	18,000	214,047	--	--	--	232,047
A	65,150	1,601,650	--	82,057	3,300	1,752,157
TOTAL	84,846	1,841,927	--	82,057	3,300	2,012,130
CENTRAL:						
D	5,122	--	--	--	--	5,122
C	--	32,000	--	7,331	--	39,331
B	--	177,114	--	4,933	--	182,047
A	--	521,923	18,620	12,800	8,500	561,843
TOTAL	5,122	731,037	18,620	25,064	8,500	788,343
BLUE MOUNTAIN:						
C AND D ^b	1,680	63,000	--	--	14,500	79,180
B	--	114,216	--	--	--	114,216
A	81,800	608,501	--	25,680	--	715,981
TOTAL	83,480	785,717	--	25,680	14,500	909,377
ALL AREAS:						
D	28,650	21,230	3,120	9,000	--	62,000
C	21,580	133,943	--	7,331	14,500	177,354
B	18,000	823,179	--	4,933	32,480	878,592
A	162,950	6,336,924	87,194	522,010	311,266	7,420,344
TOTAL	231,180	7,315,276	90,314	543,274	358,246	8,538,290

^a Class D mills = less than 40,000 board-foot capacity per 8-hour shift; C = 40,000-79,999; B = 80,000-119,999; A = 120,000 or more.

^b Combined to avoid disclosure.

Table 33—Lumber production by sawmills, by resource area, county, and type of headrig, Oregon, 1988

RESOURCE AREA AND COUNTY	CIRCULAR SAW	BAND SAW	GANG SAW	CHIPPING SAW	SCRAGG DOUBLE-CUT SAW	ALL TYPES
THOUSAND BOARD FEET, LUMBER TALLY						
NORTHWEST:						
CLACKAMAS	12,255	466,845	--	142,300	--	621,400
CLATSOP AND TILLAMOOK ^a	18,200	252,000	--	--	--	270,200
COLUMBIA	103	241,600	--	--	50,400	292,103
HOOD RIVER AND MULTNOMAH ^a	--	145,321	--	31,229	22,470	199,020
MARION	1,400	159,000	--	--	--	160,400
POLK	7,064	294,497	--	--	4,576	306,137
WASHINGTON	1,600	276,000	--	--	--	277,600
YAMHILL	800	341,000	--	--	--	341,800
TOTAL	41,422	2,176,263	--	173,529	77,446	2,468,660
WEST-CENTRAL:						
BENTON AND LINCOLN ^a	16,000	419,000	12,000	--	69,000	516,000
LANE	310	1,187,020	12,574	210,400	65,549	1,475,853
LINN	--	174,312	47,120	26,544	119,951	367,927
TOTAL	16,310	1,780,332	71,694	236,944	254,500	2,359,780
SOUTHWEST:						
COOS	79,550	104,448	--	--	--	183,998
CURRY	140	95,905	--	--	--	96,045
DOUGLAS	--	933,044	--	82,057	3,300	1,018,401
JACKSON	5,150	547,674	--	--	--	552,824
JOSEPHINE	6	160,856	--	--	--	160,862
TOTAL	84,846	1,841,927	--	82,057	3,300	2,012,130
CENTRAL:						
CROOK	--	146,205	--	--	--	146,205
DESCHUTES AND JEFFERSON ^a	1,000	37,189	--	7,331	--	45,520
KLAMATH	4,122	357,314	18,620	17,733	8,500	406,289
LAKE	--	92,476	--	--	--	92,476
WASCO	--	97,853	--	--	--	97,853
TOTAL	5,122	731,037	18,620	25,064	8,500	788,343
BLUE MOUNTAIN:						
BAKER AND WALLOWA ^a	81,800	120,590	--	--	--	202,390
GRANT AND HARNEY ^a	1,680	276,246	--	3,680	--	281,606
MORROW AND UMATILLA ^a	--	200,881	--	--	14,500	215,381
UNION	--	188,000	--	22,000	--	210,000
TOTAL	83,480	785,717	--	25,680	14,500	909,377
ALL AREAS	231,180	7,315,276	90,314	543,274	358,246	8,538,290

^a Combined to avoid disclosure.

**Table 34—Number of veneer and plywood mills by resource area,
county, and type of mill, Oregon, 1988**

RESOURCE AREA AND COUNTY	VENEER MILL	LAYUP MILL	VENEER AND LAYUP MILL	ALL TYPES
NORTHWEST:				
CLATSOP	--	--	1	1
COLUMBIA	1	--	1	2
MARION	1	--	--	1
MULTNOMAH	--	--	1	1
POLK	2	--	1	3
YAMHILL	2	1	--	3
TOTAL	6	1	4	11
WEST-CENTRAL:				
BENTON	--	1	--	1
LANE	9	4	6	19
LINCOLN	1	--	--	1
LINN	5	3	4	12
TOTAL	15	8	10	33
SOUTHWEST:				
COOS	3	1	2	6
CURRY	--	--	2	2
DOUGLAS	4	2	6	12
JACKSON	4	4	3	11
JOSEPHINE	--	5	1	6
TOTAL	11	12	14	37
CENTRAL:				
DESCHUTES	--	--	1	1
JEFFERSON	--	--	1	1
KLAMATH	1	--	2	3
TOTAL	1	--	4	5
BLUE MOUNTAIN:				
UNION	--	--	1	1
TOTAL	--	--	1	1
ALL AREAS	33	21	33	87

Table 35—Installed 8-hour capacity of veneer and plywood mills by resource area, county, and type of mill, Oregon, 1988

RESOURCE AREA AND COUNTY	VENEER AND LAYUP MILL			
	VENEER MILL	LAYUP MILL	VENEER	LAYUP
THOUSAND SQUARE FEET, 3/8-INCH BASIS				
NORTHWEST:				
CLATSOP	--	--	150	133
COLUMBIA	250	--	200	200
MARION	400	--	--	--
MULTNOMAH	--	--	200	220
POLK	271	--	245	350
YAMHILL	740	250	--	--
TOTAL	1,661	250	795	903
WEST-CENTRAL:				
BENTON	--	204	--	--
LANE	2,495	650	1,447	1,147
LINCOLN	85	--	--	--
LINN	1,555	625	860	700
TOTAL	4,135	1,479	2,307	1,847
SOUTHWEST:				
COOS	460	250	1,000	670
CURRY	--	--	470	403
DOUGLAS	745	345	1,998	1,848
JACKSON	1,535	1,021	1,218	1,023
JOSEPHINE	--	846	150	155
TOTAL	2,740	2,462	4,836	4,099
CENTRAL:				
DESCHUTES	--	--	256	270
JEFFERSON	--	--	300	250
KLAMATH	300	--	700	810
TOTAL	300	--	1,256	1,330
BLUE MOUNTAIN:				
UNION	--	--	--	205
TOTAL	--	--	--	205
ALL AREAS	8,836	4,191	9,194	8,384

Table 36--Number of veneer and plywood mills by resource area and diameter limit of lathe, Oregon, 1988

RESOURCE AREA	LAYUP ONLY	DIAMETER LIMIT OF LATHE (INCHES)						
		20-29	30-39	40-49	50-59	60-69	70-79	80 PLUS
NORTHWEST	1	--	2	1	--	3	1	3
WEST-CENTRAL	7	1	1	2	2	4	7	9
SOUTHWEST	12	--	1	1	6	5	6	6
CENTRAL	--	--	1	--	1	3	--	--
BLUE MOUNTAIN	--	--	1	--	--	--	--	--
ALL AREAS	20	1	6	4	9	15	14	18

Table 37--Number of veneer and plywood mills by resource area and diameter of core produced, Oregon, 1988

RESOURCE AREA	DIAMETER OF CORES (INCHES)						NO LATHE OR CORE
	3	4	5	6	7	8	
NORTHWEST	1	2	5	2	--	--	1
WEST-CENTRAL	--	6	4	8	7	--	8
SOUTHWEST	--	6	11	2	4	1	13
CENTRAL	--	--	4	1	--	--	--
BLUE MOUNTAIN	1	--	--	--	--	--	--
ALL AREAS	2	14	24	13	11	1	22

Table 38--Number of veneer and plywood mills by resource area, county, and selected equipment, Oregon, 1988

RESOURCE AREA AND COUNTY	4-FOOT LATHE	8-FOOT LATHE	SLICER	VENEER CHIPPER	CORE CHIPPER	COLD PRESS	HOT PRESS	BURNER
NORTHWEST:								
CLATSOP	1	1	--	1	1	--	1	--
COLUMBIA	--	2	--	1	1	1	1	--
MARION	--	1	--	1	--	--	--	--
MULTNOMAH	1	1	--	1	1	--	1	1
POLK	1	3	--	3	1	--	1	1
YAMHILL	1	2	--	1	--	--	1	--
TOTAL	4	10	--	8	4	1	5	2
WEST-CENTRAL:								
BENTON	--	--	--	1	--	--	1	--
LANE	5	14	--	11	8	--	10	2
LINCOLN	1	--	--	--	--	--	--	--
LINN	5	9	1	8	2	--	7	5
TOTAL	11	23	1	20	10	--	18	7
SOUTHWEST:								
COOS	5	3	--	4	3	--	3	--
CURRY	1	2	--	1	1	--	2	--
DOUGLAS	5	10	--	9	7	--	7	--
JACKSON	5	6	--	6	4	2	7	1
JOSEPHINE	--	1	2	1	--	1	6	--
TOTAL	16	22	2	21	15	3	25	1
CENTRAL:								
DESCHUTES	1	1	--	1	1	--	1	--
GILLIAM	--	--	--	--	--	--	--	--
JEFFERSON	--	1	--	1	1	--	1	--
KLAMATH	1	3	--	3	2	1	2	--
TOTAL	2	5	--	5	4	1	4	--
BLUE MOUNTAIN:								
UNION	1	1	--	1	--	--	1	--
TOTAL	1	1	--	1	--	--	1	--
ALL AREAS	34	61	3	55	33	5	53	10

Table 39--Number of veneer and plywood mills by resource area, years at present site, and tenure of present owner, Oregon, 1988

RESOURCE AREA AND YEARS AT PRESENT SITE	TENURE OF PRESENT OWNER (YEARS)					ALL MILLS
	0-2	3-5	6-10	11-20	21 PLUS	
NORTHWEST:						
6-10	--	--	1	--	--	1
11-20	--	--	--	2	--	2
21 PLUS	--	1	1	1	5	8
TOTAL	--	1	2	3	5	11
WEST-CENTRAL:						
3-5	1	1	--	--	--	2
6-10	--	--	1	--	1	2
11-20	--	--	1	--	--	1
21 PLUS	5	3	3	3	14	28
TOTAL	6	4	5	3	15	33
SOUTHWEST:						
3-5	--	1	--	--	--	1
6-10	1	--	1	--	--	2
11-20	--	--	1	--	--	1
21 PLUS	2	7	2	8	14	33
TOTAL	3	8	4	8	14	37
CENTRAL:						
11-20	--	--	--	1	--	1
21 PLUS	--	1	1	1	1	4
TOTAL	--	1	1	2	1	5
BLUE MOUNTAIN:						
21 PLUS	--	--	--	--	1	1
TOTAL	--	--	--	--	1	1
ALL AREAS:						
0-2	--	--	--	--	--	--
3-5	1	2	--	--	--	3
6-10	1	--	3	--	1	5
11-20	--	--	2	3	--	5
21 PLUS	7	12	7	13	35	74
TOTAL	9	14	12	16	36	87

Table 40--Average number of operating days per year of veneer and plywood mills by resource area and type of mill, Oregon, 1988

RESOURCE AREA	veneer MILL	LAYUP MILL	veneer AND LAYUP MILL
NORTHWEST	236	248	264
WEST-CENTRAL	236	273	236
SOUTHWEST	263	275	282
CENTRAL	345	--	242
BLUE MOUNTAIN	--	--	222
ALL AREAS ^a	248	273	259

^a Average of all mills within each mill type.

**Table 41—Log consumption by veneer and plywood mills,
by resource area, county, and type of material, Oregon, 1988**

RESOURCE AREA AND COUNTY	SOUND LOGS	UTILITY LOGS	ALL TYPES
<u>THOUSAND BOARD FEET, SCRIBNER LOG RULE</u>			
NORTHWEST:			
CLATSOP, COLUMBIA, AND MULTNOMAH ^a	95,146	5,815	100,961
MARION AND POLK ^a	111,626	16,739	128,365
YAMHILL	92,952	636	93,588
TOTAL	299,724	23,190	322,914
WEST-CENTRAL:			
BENTON, LANE AND LINCOLN ^a	435,800	134,464	570,264
LINN	186,078	26,571	212,649
TOTAL	621,878	161,035	782,913
SOUTHWEST:			
COOS AND CURRY ^a	213,972	31,493	245,465
DOUGLAS	462,105	70,896	533,001
JACKSON	361,731	33,684	395,415
JOSEPHINE	13,680	720	14,400
TOTAL	1,051,488	136,793	1,188,281
CENTRAL:			
DESCHUTES, JEFFERSON, AND UNION ^{a b}	109,830	3,718	113,548
KLAMATH	121,932	--	121,932
TOTAL	231,762	3,718	235,480
BLUE MOUNTAIN:			
UNION ^b	--	--	--
TOTAL	--	--	--
ALL AREAS	2,204,852	324,736	2,529,588

^a Combined to avoid disclosure.

^b Union County combined with Deschutes and Jefferson Counties to avoid disclosure.

Table 42—Log consumption by veneer and plywood mills, by resource area, county, and age group of timber, Oregon, 1988

RESOURCE AREA AND COUNTY	100 YEARS AND OLDER	LESS THAN 100 YEARS	ALL AGE GROUPS
<u>THOUSAND BOARD FEET, SCRIBNER LOG RULE</u>			
NORTHWEST:			
CLATSOP, COLUMBIA, AND MULTNOMAH ^a	65,234	35,727	100,961
MARION AND POLK ^a	76,671	51,694	128,365
YAMHILL	21,000	72,588	93,588
TOTAL	162,905	160,009	322,914
WEST-CENTRAL:			
BENTON, LANE, AND LINCOLN ^a	397,282	172,982	570,264
LINN	176,837	35,812	212,649
TOTAL	574,119	208,794	782,913
SOUTHWEST:			
COOS AND CURRY ^a	101,209	144,256	245,465
DOUGLAS	413,703	119,298	533,001
JACKSON	366,915	28,500	395,415
JOSEPHINE	14,400	--	14,400
TOTAL	896,227	292,054	1,188,281
CENTRAL:			
DESCHUTES, JEFFERSON, AND UNION ^{a b}	70,957	42,591	113,548
KLAMATH	94,957	26,975	121,932
TOTAL	165,914	69,566	235,480
BLUE MOUNTAIN:			
UNION ^b	--	--	--
TOTAL	--	--	--
ALL AREAS	1,799,165	730,423	2,529,588

^a Combined to avoid disclosure.^b Union County combined with Deschutes and Jefferson Counties to avoid disclosure.

Veneer and Plywood, Oregon

Table 43--Log consumption by veneer and plywood mills, by resource area, county, and owner, Oregon, 1988

RESOURCE AREA AND COUNTY	STATE	NATIONAL FOREST	BUREAU OF LAND MANAGEMENT	OTHER PUBLIC	FOREST INDUSTRY		OTHER PRIVATE	ALL OWNERS
					OWN WOOD SUPPLY	OTHER WOOD SUPPLY		
THOUSAND BOARD FEET, SCRIBNER LOG RULE								
NORTHWEST:								
CLATSOP, COLUMBIA, AND MULTNOMAH ^a	9,140	48,393	--	1,786	9,658	15,526	16,458	100,961
MARION AND POLK ^a	5,300	54,413	17,120	--	30,671	1,639	19,222	128,365
YAMHILL	3,000	11,544	12,179	900	50,691	900	14,374	93,588
TOTAL	17,440	114,350	29,299	2,686	91,020	18,065	50,054	322,914
WEST-CENTRAL:								
BENTON, LANE, AND LINCOLN ^a	2,250	292,737	90,459	--	33,743	127,219	23,856	570,264
LINN	--	94,706	41,449	500	42,453	2,504	31,037	212,649
TOTAL	2,250	387,443	131,908	500	76,196	129,723	54,893	782,913
SOUTHWEST:								
COOS AND CURRY ^a	24,124	92,798	54,660	--	22,202	26,252	25,429	245,465
DOUGLAS	466	298,966	145,001	--	52,259	23,620	12,689	533,001
JACKSON	--	196,742	61,774	--	68,960	48,000	19,939	395,415
JOSEPHINE	--	10,080	4,320	--	--	--	--	14,400
TOTAL	24,590	598,586	265,755	--	143,421	97,872	58,057	1,188,281
CENTRAL:								
DESCHUTES, JEFFERSON AND UNION ^{a b}	--	53,322	--	33,500	12,431	5,577	8,718	113,548
KLAMATH	2,100	64,475	4,092	--	28,472	16,203	6,590	121,932
TOTAL	2,100	117,797	4,092	33,500	40,903	21,780	15,308	235,480
BLUE MOUNTAIN:								
UNION ^b	--	--	--	--	--	--	--	--
TOTAL	--	--	--	--	--	--	--	--
ALL AREAS	46,380	1,218,176	431,054	36,686	351,540	267,440	178,312	2,529,588

^a Combined to avoid disclosure.

^b Union County combined with Deschutes and Jefferson Counties to avoid disclosure.

Table 44—Dependency (%) of veneer and plywood mills on timber by resource area and owner, Oregon, 1988

RESOURCE AREA	NATIONAL FOREST				STATE				BUREAU OF LAND MANAGEMENT							
	0%	1-32%	33-66%	67-100%	0%	1-32%	33-66%	67-100%	0%	1-32%	33-66%	67-100%				
	NUMBER OF MILLS															
NORTHWEST	1	4	2	3	4	6	--	--	5	5	--	--				
WEST-CENTRAL	1	10	6	8	23	2	--	--	7	12	6	--				
SOUTHWEST	1	5	13	6	19	6	--	--	4	16	5	--				
CENTRAL	1	1	--	3	4	1	--	--	3	2	--	--				
BLUE MOUNTAIN	--	--	1	--	1	--	--	--	1	--	--	--				
ALL AREAS	4	20	22	20	51	15	--	--	20	35	11	--				
FOREST INDUSTRY																
	OTHER PUBLIC				OWN WOOD SUPPLY				OTHER WOOD SUPPLY				OTHER PRIVATE			
	0%	1-32%	33-66%	67-100%	0%	1-32%	33-66%	67-100%	0%	1-32%	33-66%	67-100%	0%	1-32%	33-66%	67-100%
	NUMBER OF MILLS															
NORTHWEST	8	2	--	--	5	1	3	1	5	5	--	--	2	7	1	--
WEST-CENTRAL	24	1	--	--	14	6	5	--	9	13	--	3	13	11	1	--
SOUTHWEST	25	--	--	--	12	10	3	--	15	7	3	--	15	9	1	--
CENTRAL	4	--	--	1	4	--	--	1	1	4	--	--	2	3	--	--
BLUE MOUNTAIN	1	--	--	--	--	1	--	--	1	--	--	--	--	1	--	--
ALL AREAS	62	3	--	1	35	18	11	2	31	29	3	3	32	31	3	--

Table 45--Log consumption by veneer and plywood mills, by resource area, county, and species, Oregon, 1988

RESOURCE AREA AND COUNTY	DOUGLAS-FIR	HEMLOCK	TRUE FIRS	SPRUCE	PONDEROSA PINE	LODGEPOLE PINE	WESTERN REDCEDAR	OTHER SOFTWOODS	RED ALDER	OTHER HARDWOODS	ALL SPECIES
THOUSAND BOARD FEET, SCRIBNER LOG RULE											
NORTHWEST:											
CLATSOP, COLUMBIA, AND MULTNOMAH ^a	64,055	13,080	--	19,797	--	--	1,350	1,786	893	--	100,961
MARION AND POLK ^a	103,290	14,367	--	708	--	--	--	4,000	6,000	--	128,365
YAMHILL	67,286	8,266	--	18,036	--	--	--	--	--	--	93,588
TOTAL	234,631	35,713	--	38,541	--	--	1,350	5,786	6,893	--	322,914
WEST-CENTRAL:											
BENTON, LANE, AND LINCOLN ^a	512,165	51,731	1,545	725	630	--	--	2,104	955	409	570,264
LINN	201,415	11,234	--	--	--	--	--	--	--	--	212,649
TOTAL	713,580	62,965	1,545	725	630	--	--	2,104	955	409	782,913
SOUTHWEST:											
COOS AND CURRY ^a	179,624	34,807	12,132	3,210	--	--	1,800	--	13,892	--	245,465
DOUGLAS	451,046	72,662	2,090	--	--	6,486	717	--	--	--	533,001
JACKSON	244,942	2,625	96,749	--	13,557	--	--	37,542	--	--	395,415
JOSEPHINE	14,400	--	--	--	--	--	--	--	--	--	14,400
TOTAL	890,012	110,094	110,971	3,210	13,557	6,486	2,517	37,542	13,892	--	1,188,281
CENTRAL:											
DESCHUTES, JEFFERSON, AND UNION ^{a b}	65,056	18,962	20,100	3,429	--	--	--	6,001	--	--	113,548
KLAMATH	8,820	--	108,912	--	--	4,200	--	--	--	--	121,932
TOTAL	73,876	18,962	129,012	3,429	--	4,200	--	6,001	--	--	235,480
BLUE MOUNTAIN:											
UNION ^b	--	--	--	--	--	--	--	--	--	--	--
TOTAL	--	--	--	--	--	--	--	--	--	--	--
ALL AREAS	1,912,099	227,734	241,528	45,905	14,187	10,686	3,867	51,433	21,740	409	2,529,588

^a Combined to avoid disclosure.^b Union County combined with Deschutes and Jefferson Counties to avoid disclosure.

Table 46--Production and disposition of wood and bark residue by veneer and plywood mills, by resource area and county, Oregon, 1988

RESOURCE AREA AND COUNTY	WOOD RESIDUE			BARK RESIDUE			ALL RESIDUE		
	USED ^a	UNUSED	TOTAL	USED ^a	UNUSED	TOTAL	USED ^a	UNUSED	TOTAL
TONS, DRY WEIGHT									
NORTHWEST:									
CLATSOP, COLUMBIA, AND MULTNOMAH ^b	180,315	--	180,315	46,429	--	46,429	226,744	--	226,744
MARION AND POLK ^b	182,914	--	182,914	54,690	--	54,690	237,604	--	237,604
YAMHILL	154,234	--	154,234	46,068	--	46,068	200,302	--	200,302
TOTAL	517,463	--	517,463	147,187	--	147,187	664,650	--	664,650
WEST-CENTRAL:									
BENTON, LANE, AND LINCOLN ^b	900,935	--	900,935	242,296	119	242,415	1,143,231	119	1,143,350
LINN	346,434	--	346,434	83,569	--	83,569	430,003	--	430,003
TOTAL	1,247,369	--	1,247,369	325,865	119	325,984	1,573,234	119	1,573,353
SOUTHWEST:									
COOS AND CURRY ^b	439,938	--	439,938	118,121	--	118,121	558,059	--	558,059
DOUGLAS	968,569	--	968,569	253,180	--	253,180	1,221,749	--	1,221,749
JACKSON	728,418	--	728,418	191,201	--	191,201	919,619	--	919,619
JOSEPHINE	89,184	--	89,184	6,468	--	6,468	95,652	--	95,652
TOTAL	2,226,109	--	2,226,109	568,970	--	568,970	2,795,079	--	2,795,079
CENTRAL:									
DESCHUTES, JEFFERSON AND UNION ^{b c}	165,497	--	165,497	42,181	--	42,181	207,678	--	207,678
KLAMATH	179,452	--	179,452	49,235	--	49,235	228,687	--	228,687
TOTAL	344,949	--	344,949	91,416	--	91,416	436,365	--	436,365
BLUE MOUNTAIN: UNION ^c	--	--	--	--	--	--	--	--	--
TOTAL	--	--	--	--	--	--	--	--	--
ALL AREAS	4,335,890	--	4,335,890	1,133,438	119	1,133,557	5,469,328	119	5,469,447

^a Residues are not necessarily used in the area or county in which they are produced.^b Combined to avoid disclosure.^c Union County combined with Deschutes and Jefferson Counties to avoid disclosure.

Table 47--Production and disposition of wood residue by veneer and plywood mills, by resource area, county, type of residue, and use, Oregon, 1988

RESOURCE AREA AND COUNTY	COARSE RESIDUE ^a						
	USED ^b					UNUSED	TOTAL
	PULP	BOARD	FUEL	MISCELLANEOUS	TOTAL		
<u>TONS, DRY WEIGHT</u>							
NORTHWEST:							
CLATSOP, COLUMBIA, AND MULTNOMAH ^d	75,493	24,164	59,275	13,880	172,812	--	172,812
MARION AND POLK ^d	132,328	10,583	1,176	35,887	179,974	--	179,974
YAMHILL	110,982	30,712	10,032	--	151,726	--	151,726
TOTAL	318,803	65,459	70,483	49,767	504,512	--	504,512
WEST-CENTRAL:							
BENTON, LANE AND LINCOLN ^d	464,060	81,960	239,451	84,398	869,869	--	869,869
LINN	201,326	62,333	29,033	35,863	328,555	--	328,555
TOTAL	665,386	144,293	268,484	120,261	1,198,424	--	1,198,424
SOUTHWEST:							
COOS AND CURRY ^d	299,428	63,683	23,500	38,002	424,613	--	424,613
DOUGLAS	571,791	142,357	133,181	83,270	930,599	--	930,599
JACKSON	483,873	18,480	77,779	120,220	700,352	--	700,352
JOSEPHINE	15,583	10,560	44,872	4,312	75,327	--	75,327
TOTAL	1,370,675	235,080	279,332	245,804	2,130,891	--	2,130,891
CENTRAL:							
DESCHUTES, JEFFERSON, AND UNION ^{d e}	122,214	15,480	1,404	19,247	158,345	--	158,345
KLAMATH	129,719	21,717	2,591	19,822	173,849	--	173,849
TOTAL	251,933	37,197	3,995	39,069	332,194	--	332,194
BLUE MOUNTAIN:							
UNION ^e	--	--	--	--	--	--	--
TOTAL	--	--	--	--	--	--	--
ALL AREAS	2,606,797	482,029	622,294	454,901	4,166,021	--	4,166,021

See footnotes at end of table.

Table 47—Production and disposition of wood residue by veneer and plywood mills, by resource area, county, type of residue, and use, Oregon, 1988 (continued)

RESOURCE AREA AND COUNTY	FINE RESIDUE ^c						
	USED ^b					UNUSED	TOTAL
	PULP	BOARD	FUEL	MISCELLANEOUS	TOTAL		
	TONS, DRY WEIGHT						
NORTHWEST:							
CLATSOP, COLUMBIA, AND MULTNOMAH ^d	--	--	7,503	--	7,503	--	7,503
MARION AND POLK ^d	--	--	2,940	--	2,940	--	2,940
YAMHILL	--	--	2,508	--	2,508	--	2,508
TOTAL	--	--	12,951	--	12,951	--	12,951
WEST-CENTRAL:							
BENTON, LANE AND LINCOLN ^d	--	5,648	25,418	--	31,066	--	31,066
LINN	--	6,021	11,858	--	17,879	--	17,879
TOTAL	--	11,669	37,276	--	48,945	--	48,945
SOUTHWEST:							
COOS AND CURRY ^d	--	--	15,325	--	15,325	--	15,325
DOUGLAS	--	--	37,970	--	37,970	--	37,970
JACKSON	--	1,320	26,746	--	28,066	--	28,066
JOSEPHINE	--	--	11,257	2,600	13,857	--	13,857
TOTAL	--	1,320	91,298	2,600	95,218	--	95,218
CENTRAL:							
DESCHUTES, JEFFERSON, AND UNION ^{d e}	--	--	7,152	--	7,152	--	7,152
KLAMATH	--	--	5,603	--	5,603	--	5,603
TOTAL	--	--	12,755	--	12,755	--	12,755
BLUE MOUNTAIN:							
UNION ^e	--	--	--	--	--	--	--
TOTAL	--	--	--	--	--	--	--
ALL AREAS	--	12,989	154,280	2,600	169,869	--	169,869

Table 47—Production and disposition of wood residue by veneer and plywood mills, by resource area, county, type of residue, and use, Oregon, 1988 (continued)

RESOURCE AREA AND COUNTY	ALL TYPES OF WOOD RESIDUE						
	USED ^b					UNUSED	TOTAL
	PULP	BOARD	FUEL	MISCELLANEOUS	TOTAL		
TONS, DRY WEIGHT							
NORTHWEST:							
CLATSOP, COLUMBIA, AND MULTNOMAH ^d	75,493	24,164	66,778	13,880	180,315	--	180,315
MARION AND POLK ^d	132,328	10,583	4,116	35,887	182,914	--	182,914
YAMHILL	110,982	30,712	12,540	--	154,234	--	154,234
TOTAL	318,803	65,459	83,434	49,767	517,463	--	517,463
WEST-CENTRAL:							
BENTON, LANE AND LINCOLN ^a	464,060	87,608	264,869	84,398	900,935	--	900,935
LINN	201,326	68,354	40,891	35,863	346,434	--	346,434
TOTAL	665,386	155,962	305,760	120,261	1,247,369	--	1,247,369
SOUTHWEST:							
COOS AND CURRY ^d	299,428	63,683	38,825	38,002	439,938	--	439,938
DOUGLAS	571,791	142,357	171,151	83,270	968,569	--	968,569
JACKSON	483,873	19,800	104,525	120,220	728,418	--	728,418
JOSEPHINE	15,583	10,560	56,129	6,912	89,184	--	89,184
TOTAL	1,370,675	236,400	370,630	248,404	2,226,109	--	2,226,109
CENTRAL:							
DESCHUTES, JEFFERSON, AND UNION ^{d e}	122,214	15,480	8,556	19,247	165,497	--	165,497
KLAMATH	129,719	21,717	8,194	19,822	179,452	--	179,452
TOTAL	251,933	37,197	16,750	39,069	344,949	--	344,949
BLUE MOUNTAIN:							
UNION ^a	--	--	--	--	--	--	--
TOTAL	--	--	--	--	--	--	--
ALL AREAS	2,606,797	495,018	776,574	457,501	4,335,890	--	4,335,890

^a Coarse residue includes log trim, cores, veneer clippings, rejected veneer, roundup, and spur trim.^b Residues are not necessarily used in the area or county in which they are produced.^c Fine residue includes sawdust and sander dust.^d Combined to avoid disclosure.^e Union County combined with Deschutes and Jefferson Counties to avoid disclosure.

Table 48--Production and disposition of bark residue by veneer and plywood mills, by resource area, county, and use, Oregon, 1988

RESOURCE AREA AND COUNTY	USED ^a					UNUSED	ALL BARK
	PULP	BOARD	FUEL	MISCELLANEOUS	TOTAL		
<u>TONS, DRY WEIGHT</u>							
NORTHWEST:							
CLATSOP, COLUMBIA, AND MULTNOMAH ^b	--	--	34,173	12,256	46,429	--	46,429
MARION AND POLK ^b	--	--	54,690	--	54,690	--	54,690
YAMHILL	--	--	46,068	--	46,068	--	46,068
TOTAL	--	--	134,931	12,256	147,187	--	147,187
WEST-CENTRAL:							
BENTON, LANE, AND LINCOLN ^b	--	--	241,063	1,233	242,296	119	242,415
LINN	--	--	79,081	4,488	83,569	--	83,569
TOTAL	--	--	320,144	5,721	325,865	119	325,984
SOUTHWEST:							
COOS AND CURRY ^b	--	--	118,121	--	118,121	--	118,121
DOUGLAS	--	--	253,180	--	253,180	--	253,180
JACKSON	--	--	159,719	31,482	191,201	--	191,201
JOSEPHINE	--	--	6,468	--	6,468	--	6,468
TOTAL	--	--	537,488	31,482	568,970	--	568,970
CENTRAL:							
DESCHUTES, JEFFERSON, AND UNION ^{b c}	--	--	42,181	--	42,181	--	42,181
KLAMATH	--	--	49,235	--	49,235	--	49,235
TOTAL	--	--	91,416	--	91,416	--	91,416
BLUE MOUNTAIN:							
UNION ^c	--	--	--	--	--	--	--
TOTAL	--	--	--	--	--	--	--
ALL AREAS	--	--	1,083,979	49,459	1,133,438	119	1,133,557

^a Residues are not necessarily used in the area or county in which they are produced.

^b Combined to avoid disclosure.

^c Union County combined with Deschutes and Jefferson Counties to avoid disclosure.

Table 49—Number of pulpmills and board mills by resource area, county, and type of operation, Oregon, 1988

RESOURCE AREA AND COUNTY	PULPMILL				BOARD MILL			ALL MILLS
	SULFITE	SULFATE	GROUNDWOOD	SEMICHEMICAL	HARDBOARD	PARTICLE BOARD	INSULATION BOARD	
NORTHWEST:								
CLACKAMAS	--	--	2	--	--	--	--	2
CLATSOP	--	1	1	--	--	--	--	2
COLUMBIA	--	1	--	--	--	--	--	1
HOOD RIVER	--	--	--	--	1	--	--	1
WASHINGTON	--	--	--	--	1	--	--	1
YAMHILL	--	--	1	--	--	--	--	1
TOTAL	--	2	4	--	2	--	--	8
WEST-CENTRAL:								
BENTON	--	--	--	--	1	1	--	2
LANE	--	1	--	--	--	2	--	3
LINCOLN	--	1	--	1	--	--	--	2
LINN	--	2	--	--	1	3	--	6
TOTAL	--	4	--	1	2	6	--	13
SOUTHWEST:								
COOS	1	--	--	--	--	--	--	1
DOUGLAS	--	1	--	--	--	1	--	2
JACKSON	--	--	--	--	--	2	--	2
TOTAL	1	1	--	--	--	3	--	5
CENTRAL:								
DESCHUTES	--	--	--	--	--	1	--	1
KLAMATH	--	--	--	--	2	1	--	3
TOTAL	--	--	--	--	2	2	--	4
BLUE MOUNTAIN:								
UMATILLA	--	--	--	--	--	1	1	2
UNION	--	--	--	--	--	1	--	1
TOTAL	--	--	--	--	--	2	1	3
ALL AREAS	1	7	4	1	6	13	1	33

Table 50--Installed capacity of pulpmills and board mills by resource area, county, and type of operation, Oregon, 1988

RESOURCE AREA AND COUNTY	PULPMILL				BOARD MILL		
	SULFITE	SULFATE	GROUNDWOOD	SEMICHEMICAL	HARDBOARD	PARTICLE BOARD	INSULATION BOARD
	- - - - - 24-HOUR CAPACITY (TONS) - - - - -				ANNUAL CAPACITY (MILLION SQUARE FEET)		
					1/8-INCH BASIS	1/4-INCH BASIS	1/2-INCH BASIS
NORTHWEST:							
CLACKAMAS	--	--	353	--	--	--	--
CLATSOP	--	970	340	--	--	--	--
COLUMBIA	--	896	--	--	--	--	--
HOOD RIVER	--	--	--	--	72	--	--
WASHINGTON	--	--	--	--	126	--	--
YAMHILL	--	--	660	--	--	--	--
TOTAL	--	1,866	1,353	--	198	--	--
WEST-CENTRAL:							
BENTON	--	--	--	--	135	24	--
LANE	--	61	--	--	--	175	--
LINCOLN	--	1,240	--	300	--	--	--
LINN	--	1,593	--	--	115	257	--
TOTAL	--	2,894	--	300	250	456	--
SOUTHWEST:							
COOS	230	--	--	--	--	--	--
DOUGLAS	--	800	--	--	--	360	--
JACKSON	--	--	--	--	--	190	--
TOTAL	230	800	--	--	--	550	--
CENTRAL:							
DESCHUTES	--	--	--	--	--	192	--
KLAMATH	--	--	--	--	200	100	--
TOTAL	--	--	--	--	200	292	--
BLUE MOUNTAIN:							
UMATILLA	--	--	--	--	--	77	103
UNION	--	--	--	--	--	181	--
TOTAL	--	--	--	--	--	258	103
ALL AREAS	230	5,560	1,353	300	648	1,556	103

Table 51—Number of pulpmills and board mills by type of mill, years at present site, and tenure of present owner, Oregon, 1988

TYPE OF MILL AND YEARS AT PRESENT SITE	TENURE OF PRESENT OWNER (YEARS)					ALL MILLS
	0-2	3-5	6-10	11-20	21 PLUS	
SULFITE:						
21 PLUS	--	--	1	--	--	1
TOTAL	--	--	1	--	--	1
SULFATE:						
21 PLUS	--	--	1	--	6	7
TOTAL	--	--	1	--	6	7
GROUNDWOOD:						
21 PLUS	--	2	--	--	3	5
TOTAL	--	2	--	--	3	5
HARDWOOD:						
11-20	--	--	--	1	--	1
21 PLUS	3	--	--	--	2	5
TOTAL	3	--	--	1	2	6
PARTICLEBOARD:						
11-20	--	1	--	3	--	4
21 PLUS	--	--	1	1	7	9
TOTAL	--	1	1	4	7	13
INSULATION BOARD:						
21 PLUS	--	--	--	--	1	1
TOTAL	--	--	--	--	1	1
ALL TYPES	3	3	3	5	19	33

Table 52--Average number of operating days per year of pulpmills and board mills by resource area, Oregon, 1988

RESOURCE AREA	PULPMILL	BOARD MILL
NORTHWEST	361	239
WEST-CENTRAL	359	312
SOUTHWEST	350	317
CENTRAL	--	344
BLUE MOUNTAIN	--	295
ALL AREAS ^a	358	309

^a Average of all mills within each type.

Table 53--Wood consumption by pulpmills and board mills, by resource area and type of material, Oregon, 1988

RESOURCE AREA	ROUNDWOOD			OTHER WOOD					
	SOUND LOGS	UTILITY LOGS	TOTAL	CHIPS		SAWDUST	SHAVINGS	BARK	TOTAL
				FROM MILL RESIDUE	FROM ROUNDWOOD CHIPPING MILL				
<u>THOUSAND BOARD FEET, SCRIBNER LOG RULE</u>			<u>- TONS, DRY WEIGHT -</u>						
NORTHWEST	28,900	44,100	73,000	962,481	158,500	361,039	6,281	--	1,488,301
WEST-CENTRAL	--	--	--	1,690,297	820,000	189,993	439,847	--	3,140,137
SOUTHWEST	28,458	--	28,458	760,000	121,529	212,046	312,352	--	1,405,927
CENTRAL	--	--	--	51,269	11,491	9,385	419,068	--	491,213
BLUE MOUNTAIN	--	--	--	23,000	54,000	--	213,834	--	290,834
ALL AREAS	57,358	44,100	101,458	3,487,047	1,165,520	772,463	1,391,382	--	6,816,412

Table 54--Log consumption by pulpmills and board mills, by resource area and age group of timber, Oregon, 1988

RESOURCE AREA	100 YEARS AND OLDER	LESS THAN 100 YEARS	ALL AGE GROUPS
<u>THOUSAND BOARD FEET, SCRIBNER LOG RULE</u>			
NORTHWEST	2,400	70,600	73,000
WEST-CENTRAL	--	--	--
SOUTHWEST	2,846	25,612	28,458
CENTRAL	--	--	--
BLUE MOUNTAIN	--	--	--
ALL AREAS	5,246	96,212	101,458

Table 55—Log consumption by pulpmills and board mills, by resource area and owner, Oregon, 1988

RESOURCE AREA	STATE	NATIONAL FOREST	BUREAU OF LAND MANAGEMENT	OTHER PUBLIC	FOREST INDUSTRY			ALL OWNERS
					OWN WOOD SUPPLY	OTHER WOOD SUPPLY	OTHER PRIVATE	
THOUSAND BOARD FEET, SCRIBNER LOG RULE								
NORTHWEST	--	7,200	--	--	31,500	12,600	21,700	73,000
WEST-CENTRAL	--	--	--	--	--	--	--	--
SOUTHWEST	2,846	8,537	2,846	--	1,423	11,383	1,423	28,458
CENTRAL	--	--	--	--	--	--	--	--
BLUE MOUNTAIN	--	--	--	--	--	--	--	--
ALL AREAS	2,846	15,737	2,846	--	32,923	23,983	23,123	101,458

Table 56—Pulpmill and board mill consumption of mill residue and chips from other sources, by resource area, type of material, and State of origin, Oregon, 1988

RESOURCE AREA AND TYPE OF MATERIAL	OREGON	WASHINGTON	CALIFORNIA	IDAHO	OTHER	TOTAL
<u>TONS, DRY WEIGHT</u>						
NORTHWEST:						
CHIP RESIDUE	709,557	143,165	--	66,810	42,949	962,481
CHIPS, OTHER SOURCES	158,500	--	--	--	--	158,500
SAWDUST AND SHAVINGS	318,830	48,490	--	--	--	367,320
TOTAL	1,186,887	191,655	--	66,810	42,949	1,488,301
WEST-CENTRAL:						
CHIP RESIDUE	1,690,297	--	--	--	--	1,690,297
CHIPS, OTHER SOURCES	820,000	--	--	--	--	820,000
SAWDUST AND SHAVINGS	629,840	--	--	--	--	629,840
TOTAL	3,140,137	--	--	--	--	3,140,137
SOUTHWEST:						
CHIP RESIDUE	760,000	--	--	--	--	760,000
CHIPS, OTHER SOURCES	121,529	--	--	--	--	121,529
SAWDUST AND SHAVINGS	524,398	--	--	--	--	524,398
TOTAL	1,405,927	--	--	--	--	1,405,927
CENTRAL:						
CHIP RESIDUE	43,452	--	7,817	--	--	51,269
CHIPS, OTHER SOURCES	11,491	--	--	--	--	11,491
SAWDUST AND SHAVINGS	394,763	--	33,690	--	--	428,453
TOTAL	449,706	--	41,507	--	--	491,213
BLUE MOUNTAIN:						
CHIP RESIDUE	13,800	4,600	--	4,600	--	23,000
CHIPS, OTHER SOURCES	54,000	--	--	--	--	54,000
SAWDUST AND SHAVINGS	128,300	42,767	--	42,767	--	213,834
TOTAL	196,100	47,367	--	47,367	--	290,834
ALL AREAS:						
CHIP RESIDUE	3,217,106	147,765	7,817	71,410	42,949	3,487,047
CHIPS, OTHER SOURCES	1,165,520	--	--	--	--	1,165,520
SAWDUST AND SHAVINGS	1,996,131	91,257	33,690	42,767	--	2,163,845
TOTAL	6,378,757	239,022	41,507	114,177	42,949	6,816,412

Table 57—Number of "other industry" mills by resource area, county, and type of industry, Oregon, 1988

RESOURCE AREA AND COUNTY	SHAKE AND SHINGLE	EXPORT	POST, POLE, AND PILING	ALL TYPES
NORTHWEST:				
CLACKAMAS	3	--	--	3
CLATSOP	2	8	--	10
COLUMBIA	--	--	2	2
MULTNOMAH	--	7	--	7
POLK	1	--	--	1
TILLAMOOK	4	--	--	4
WASHINGTON	--	--	1	1
YAMHILL	--	--	1	1
TOTAL	10	15	4	29
WEST-CENTRAL:				
BENTON	1	--	--	1
LANE	6	--	4	10
LINCOLN	--	4	--	4
LINN	4	--	--	4
TOTAL	11	4	4	19
SOUTHWEST:				
COOS	3	14	--	17
JOSEPHINE	--	--	2	2
TOTAL	3	14	2	19
CENTRAL:				
DESCHUTES	--	--	4	4
KLAMATH	--	--	3	3
TOTAL	--	--	7	7
BLUE MOUNTAIN:				
UMATILLA	--	--	1	1
TOTAL	--	--	1	1
ALL AREAS	24	33	18	75

Table 58--Installed capacity of "other industry" mills by resource area, county, and type of industry, Oregon, 1988

RESOURCE AREA AND COUNTY	SHAKE AND SHINGLE	POST, POLE, AND PILING
	<u>8-HOUR CAPACITY (SQUARES)</u>	<u>ANNUAL CAPACITY (THOUSAND BOARD FEET, SCRIBNER LOG RULE)</u>
NORTHWEST:		
CLACKAMAS	662	--
CLATSOP	48	--
COLUMBIA	--	11,794
MULTNOMAH	--	--
POLK	86	--
TILLAMOOK	596	--
WASHINGTON	--	2,080
YAMHILL	--	22,700
TOTAL	1,392	36,574
WEST-CENTRAL:		
BENTON	35	--
LANE	486	16,862
LINCOLN	--	--
LINN	402	--
TOTAL	923	16,862
SOUTHWEST:		
COOS	181	--
JOSEPHINE	--	513
TOTAL	181	513
CENTRAL:		
DESCHUTES	--	6,097
KLAMATH	--	6,943
TOTAL	--	13,040
BLUE MOUNTAIN:		
UMATILLA	--	5,130
TOTAL	--	5,130
ALL AREAS	2,496	72,119

**Table 59--Number of shake and shingle mills with selected equipment
by resource area and county, Oregon, 1988**

RESOURCE AREA AND COUNTY	CHIPPER	BARKER	BURNER
NORTHWEST:			
CLACKAMAS	1	--	--
POLK	1	--	--
TILLAMOOK	1	--	1
TOTAL	3	--	1
WEST-CENTRAL:			
LANE	1	1	--
LINN	2	1	--
TOTAL	3	2	--
SOUTHWEST:			
COOS	1	--	--
TOTAL	1	--	--
CENTRAL	--	--	--
BLUE MOUNTAIN	--	--	--
ALL AREAS	7	2	1

Table 60—Number of "other industry" mills by type of mill, years at present site, and tenure of present owner, Oregon, 1988

TYPE OF MILL AND YEARS AT PRESENT SITE	TENURE OF PRESENT OWNER (YEARS)					ALL MILLS
	0-2	3-5	6-10	11-20	21 PLUS	
SHAKE AND SHINGLE:						
0-2	1	--	1	--	--	2
6-10	1	1	4	--	--	6
11-20	--	--	--	4	--	4
21 PLUS	1	--	--	2	9	12
TOTAL	3	1	5	6	9	24
POST, POLE, AND PILING:						
0-2	1	--	--	--	--	1
6-10	1	--	2	1	--	4
11-20	--	3	--	4	--	7
21 PLUS	--	1	--	--	5	6
TOTAL	2	4	2	5	5	18

Table 61—Average number of operating days per year of "other industry" mills by resource area and type of mill, Oregon, 1988

RESOURCE AREA	SHAKE AND SHINGLE	POST, POLE, AND PILING
NORTHWEST	168	334
WEST CENTRAL	188	307
SOUTHWEST	199	70
CENTRAL	--	253
BLUE MOUNTAIN	--	60
ALL AREAS ^a	181	252

^a Average of all mills within each type.

Table 62--Wood consumption by "other industry" mills, by resource area, type of mill, and type of material, Oregon, 1988

RESOURCE AREA AND TYPE OF MILL	ROUNDWOOD			OTHER WOOD	ALL WOOD
	SOUND LOGS	UTILITY LOGS	TOTAL ROUNDWOOD		
<u>THOUSAND BOARD FEET, SCRIBNER LOG RULE</u>					
NORTHWEST:					
SHAKE AND SHINGLE	3,175	1,064	4,239	536	4,775
EXPORT	229,396	9,496	238,892	--	238,892
POST,POLE, AND PILING	18,433	--	18,433	--	18,433
TOTAL	251,004	10,560	261,564	536	262,100
WEST-CENTRAL:					
SHAKE AND SHINGLE	7,724	541	8,265	332	8,597
EXPORT	120,743	--	120,743	--	120,743
POST,POLE, AND PILING ^a	4,077	--	4,077	--	4,077
TOTAL	132,544	541	133,085	332	133,417
SOUTHWEST:					
SHAKE AND SHINGLE	2,970	250	3,220	153	3,373
EXPORT	313,582	375	313,957	--	313,957
POST, POLE, AND PILING ^a	--	--	--	--	--
TOTAL	316,552	625	317,177	153	317,330
CENTRAL AND BLUE MOUNTAIN: ^b					
POST,POLE, AND PILING	8,041	--	8,041	--	8,041
TOTAL	8,041	--	8,041	--	8,041
ALL AREAS:					
SHAKE AND SHINGLE	13,869	1,855	15,724	1,021	16,745
EXPORT	663,721	9,871	673,592	--	673,592
POST,POLE, AND PILING	30,551	--	30,551	--	30,551
TOTAL	708,141	11,726	719,867	1,021	720,888

^a Southwest Area combined with West-Central Area to avoid disclosure.

^b Combined to avoid disclosure.

Table 63—Log consumption by "other industry" mills, by resource area, type of mill, and age group of timber, Oregon, 1988

RESOURCE AREA AND TYPE OF MILL	100 YEARS AND OLDER	LESS THAN 100 YEARS	ALL AGE GROUPS
<u>THOUSAND BOARD FEET, SCRIBNER LOG RULE</u>			
NORTHWEST:			
SHAKE AND SHINGLE	4,188	51	4,239
EXPORT	68,000	170,892	238,892
POST, POLE, AND PILING	507	17,926	18,433
TOTAL	72,695	188,869	261,564
WEST-CENTRAL:			
SHAKE AND SHINGLE	4,669	3,596	8,265
EXPORT	99,078	21,665	120,743
POST, POLE, AND PILING ^a	205	3,872	4,077
TOTAL	103,952	29,133	133,085
SOUTHWEST:			
SHAKE AND SHINGLE	1,720	1,500	3,220
EXPORT	140,630	173,327	313,957
POST, POLE, AND PILING ^a	--	--	--
TOTAL	142,350	174,827	317,177
CENTRAL AND BLUE MOUNTAIN: ^b			
POST, POLE, AND PILING	577	7,464	8,041
TOTAL	577	7,464	8,041
ALL AREAS:			
SHAKE AND SHINGLE	10,577	5,147	15,724
EXPORT	307,708	365,884	673,592
POST, POLE, AND PILING	1,289	29,262	30,551
TOTAL	319,574	400,293	719,867

^aSouthwest Area combined with West-Central Area to avoid disclosure.

^b Combined to avoid disclosure.

Table 64—Log consumption by "other industry" mills, by resource area, type of mill, and owner, Oregon, 1988

RESOURCE AREA AND TYPE OF MILL	STATE	NATIONAL FOREST	BUREAU OF LAND MANAGEMENT	OTHER PUBLIC	FOREST INDUSTRY			
					OWN WOOD SUPPLY	OTHER WOOD SUPPLY	OTHER PRIVATE	ALL OWNERS
					THOUSAND BOARD FEET, SCRIBNER LOG RULE			
NORTHWEST:								
SHAKE AND SHINGLE	500	2,679	71	51	--	938	--	4,239
EXPORT	20,610	240	--	4,229	4,160	184,396	25,257	238,892
POST,POLE, AND PILING	2,125	--	2,125	--	570	9,666	3,947	18,433
TOTAL	23,235	2,919	2,196	4,280	4,730	195,000	29,204	261,564
WEST-CENTRAL:								
SHAKE AND SHINGLE	--	4,969	916	--	516	1,403	461	8,265
EXPORT	500	--	500	--	--	103,423	16,320	120,743
POST,POLE, AND PILING	--	1,186	943	--	--	1,054	894	4,077
TOTAL	500	6,155	2,359	--	516	105,880	17,675	133,085
SOUTHWEST:								
SHAKE AND SHINGLE	125	250	375	--	--	2,453	17	3,220
EXPORT	6,225	6,375	5,913	--	17,000	256,635	21,809	313,957
POST,POLE, AND PILING	--	--	--	--	--	--	--	--
TOTAL	6,350	6,625	6,288	--	17,000	259,088	21,826	317,177
CENTRAL AND BLUE MOUNTAIN:								
POST,POLE, AND PILING	--	4,361	371	--	--	2,759	550	8,041
TOTAL	--	4,361	371	--	--	2,759	550	8,041
ALL AREAS:								
SHAKE AND SHINGLE	625	7,898	1,362	51	516	4,794	478	15,724
EXPORT	27,335	6,615	6,413	4,229	21,160	544,454	63,386	673,592
POST,POLE, AND PILING	2,125	5,547	3,439	--	570	13,479	5,391	30,551
TOTAL	30,085	20,060	11,214	4,280	22,246	562,727	69,255	719,867

^a Southwest Area combined with West-Central Area to avoid disclosure.

^b Combined to avoid disclosure.

Table 65--Dependency (%) of "other industry" mills on timber by resource area, type of mill, and owner, Oregon, 1988

RESOURCE AREA AND TYPE OF MILL	NATIONAL FOREST				STATE				BUREAU OF LAND MANAGEMENT				OTHER PUBLIC			
	0%	1-32%	33-66%	67-100%	0%	1-32%	33-66%	67-100%	0%	1-32%	33-66%	67-100%	0%	1-32%	33-66%	67-100%
NUMBER OF MILLS																
NORTHWEST:																
SHAKE AND SHINGLE	3	2	1	2	5	2	--	1	7	1	--	--	7	1	--	--
EXPORT	14	--	1	--	12	2	--	1	15	--	--	--	13	1	--	1
POST, POLE, AND PILING	4	--	--	--	3	1	--	--	3	1	--	--	4	--	--	--
TOTAL	21	2	2	2	20	5	--	2	25	2	--	--	24	2	--	1
WEST-CENTRAL:																
SHAKE AND SHINGLE	2	--	1	8	11	--	--	--	7	3	1	--	11	--	--	--
EXPORT	4	--	--	--	3	1	--	--	3	1	--	--	4	--	--	--
POST, POLE, AND PILING	2	1	1	--	4	--	--	--	3	--	1	--	4	--	--	--
TOTAL	8	1	2	8	18	1	--	--	13	4	2	--	19	--	--	--
SOUTHWEST:																
SHAKE AND SHINGLE	2	1	--	--	2	1	--	--	2	1	--	--	3	--	--	--
EXPORT	11	2	1	--	11	2	--	1	9	5	--	--	14	--	--	--
POST, POLE, AND PILING	1	1	--	--	2	--	--	--	1	--	--	1	2	--	--	--
TOTAL	14	4	1	--	15	3	--	1	12	6	--	1	19	--	--	--
CENTRAL:																
SHAKE AND SHINGLE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EXPORT	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
POST, POLE, AND PILING	1	1	--	5	7	--	--	--	4	3	--	--	7	--	--	--
TOTAL	1	1	--	5	7	--	--	--	4	3	--	--	7	--	--	--
BLUE MOUNTAIN:																
SHAKE AND SHINGLE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EXPORT	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
POST, POLE, AND PILING	--	--	--	1	1	--	--	--	--	1	--	--	1	--	--	--
TOTAL	--	--	--	1	1	--	--	--	--	1	--	--	1	--	--	--
ALL AREAS:																
SHAKE AND SHINGLE	7	3	2	10	18	3	--	1	16	5	1	--	21	1	--	--
EXPORT	29	2	2	--	26	5	--	2	27	6	--	--	31	1	--	1
POST, POLE, AND PILING	8	3	1	6	17	1	--	--	11	5	1	1	18	--	--	--
TOTAL	44	8	5	16	61	9	--	3	54	16	2	1	70	2	--	1

Table 65—Dependency (%) of "other industry" mills on timber by resource area, type of mill, and owner, Oregon, 1988 (continued)

RESOURCE AREA AND TYPE OF MILL	FOREST INDUSTRY											
	OWN WOOD SUPPLY				OTHER WOOD SUPPLY				OTHER PRIVATE			
	0%	1-32%	33-66%	67-100%	0%	1-32%	33-66%	67-100%	0%	1-32%	33-66%	67-100%
	NUMBER OF MILLS											
NORTHWEST:												
SHAKE AND SHINGLE	8	--	--	--	3	1	--	4	8	--	--	--
EXPORT	14	--	--	1	3	--	2	10	12	3	--	--
POST,POLE, AND PILING	3	1	--	--	--	--	2	2	1	2	1	--
TOTAL	25	1	--	1	6	1	4	16	21	5	1	--
WEST-CENTRAL:												
SHAKE AND SHINGLE	9	2	--	--	6	3	1	1	9	1	1	--
EXPORT	4	--	--	--	1	--	--	3	1	2	--	1
POST,POLE, AND PILING	4	--	--	--	3	--	--	1	--	2	--	2
TOTAL	17	2	--	--	10	3	1	5	10	5	1	3
SOUTHWEST:												
SHAKE AND SHINGLE	3	--	--	--	--	--	--	3	2	1	--	--
EXPORT	13	--	--	1	1	2	1	10	12	1	1	--
POST,POLE, AND PILING	2	--	--	--	1	--	--	1	2	--	--	--
TOTAL	18	--	--	1	2	2	1	14	16	2	1	--
CENTRAL:												
SHAKE AND SHINGLE	--	--	--	--	--	--	--	--	--	--	--	--
EXPORT	--	--	--	--	--	--	--	--	--	--	--	--
POST,POLE, AND PILING	7	--	--	--	4	1	--	2	4	3	--	--
TOTAL	7	--	--	--	4	1	--	2	4	3	--	--
BLUE MOUNTAIN:												
SHAKE AND SHINGLE	--	--	--	--	--	--	--	--	--	--	--	--
EXPORT	--	--	--	--	--	--	--	--	--	--	--	--
POST,POLE, AND PILING	1	--	--	--	1	--	--	--	1	--	--	--
TOTAL	1	--	--	--	1	--	--	--	1	--	--	--
ALL AREAS:												
SHAKE AND SHINGLE	20	2	--	--	9	4	1	8	19	2	1	--
EXPORT	31	--	--	2	5	2	3	23	25	6	1	--
POST,POLE, AND PILING	17	1	--	--	9	1	2	6	8	7	1	--
TOTAL	68	3	--	2	23	7	6	37	52	15	3	--

Table 66—Log consumption by "other industry" mills, by resource area, type of mill, and species, Oregon, 1988

RESOURCE AREA AND TYPE OF MILL	DOUGLAS-FIR	HEMLOCK	TRUE FIRS	SPRUCE	PONDEROSA PINE	LOGEPOLE PINE	WESTERN REDCEDAR	OTHER SOFTWOODS	RED ALDER	OTHER HARDWOODS	ALL SPECIES
THOUSAND BOARD FEET, SCRIBNER LOG RULE											
NORTHWEST:											
SHAKE AND SHINGLE	--	--	--	--	--	--	4,239	--	--	--	4,239
EXPORT	125,890	93,801	4,910	8,370	--	573	3,924	721	703	--	238,892
POST,POLE, AND PILING	18,306	--	--	--	23	104	--	--	--	--	18,433
TOTAL	144,196	93,801	4,910	8,370	23	677	8,163	721	703	--	261,564
WEST-CENTRAL:											
SHAKE AND SHINGLE	--	--	--	--	--	--	8,265	--	--	--	8,265
EXPORT	89,435	23,144	2,500	5,664	--	--	--	--	--	--	120,743
POST,POLE, AND PILING ^a	4,022	--	7	--	--	--	48	--	--	--	4,077
TOTAL	93,457	23,144	2,507	5,664	--	--	8,313	--	--	--	133,085
SOUTHWEST:											
SHAKE AND SHINGLE	--	--	--	--	--	--	3,220	--	--	--	3,220
EXPORT	251,049	25,176	8,545	7,100	--	--	--	22,087	--	--	313,957
POST,POLE, AND PILING ^a	--	--	--	--	--	--	--	--	--	--	--
TOTAL	251,049	25,176	8,545	7,100	--	--	3,220	22,087	--	--	317,177
CENTRAL AND BLUE MOUNTAIN: ^b											
POST,POLE, AND PILING	--	--	--	--	151	7,890	--	--	--	--	8,041
TOTAL	--	--	--	--	151	7,890	--	--	--	--	8,041
ALL AREAS:											
SHAKE AND SHINGLE	--	--	--	--	--	--	15,724	--	--	--	15,724
EXPORT	466,374	142,121	15,955	21,134	--	573	3,924	22,808	703	--	673,592
POST,POLE, AND PILING	22,328	--	7	--	174	7,994	48	--	--	--	30,551
TOTAL	488,702	142,121	15,962	21,134	174	8,567	19,696	22,808	703	--	719,867

^a Southwest Area combined with West-Central Area to avoid disclosure.^b Combined to avoid disclosure.

Table 67--Production and disposition of wood and bark residue by shake and shingle mills, by resource area, Oregon, 1988

RESOURCE AREA	WOOD RESIDUE			BARK RESIDUE			ALL RESIDUE		
	USED ^a	UNUSED	TOTAL	USED ^a	UNUSED	TOTAL	USED ^a	UNUSED	TOTAL
<u>TONS, DRY WEIGHT</u>									
NORTHWEST	3,137	464	3,601	1,358	147	1,505	4,495	611	5,106
WEST-CENTRAL	5,786	1,660	7,446	2,485	160	2,645	8,271	1,820	10,091
SOUTHWEST	1,330	--	1,330	790	--	790	2,120	--	2,120
CENTRAL	--	--	--	--	--	--	--	--	--
BLUE MOUNTAIN	--	--	--	--	--	--	--	--	--
ALL AREAS	10,253	2,124	12,377	4,633	307	4,940	14,886	2,431	17,317

^a Residues are not necessarily used in the area in which they are produced.

Table 68--Production and disposition of wood residue by shake and shingle mills, by resource area, use, and type of residue, Oregon, 1988

RESIDUE AND RESOURCE AREA	USED ^a					UNUSED	TOTAL
	PULP	BOARD	FUEL	MISCELLANEOUS	TOTAL		
<u>TONS, DRY WEIGHT</u>							
COARSE RESIDUE: ^b							
NORTHWEST	--	--	743	404	1,147	220	1,367
WEST-CENTRAL	717	--	841	605	2,163	--	2,163
SOUTHWEST	--	--	650	--	650	--	650
CENTRAL	--	--	--	--	--	--	--
BLUE MOUNTAIN	--	--	--	--	--	--	--
ALL AREAS	717	--	2,234	1,009	3,960	220	4,180
FINE RESIDUE: ^c							
NORTHWEST	--	--	1,461	529	1,990	244	2,234
WEST-CENTRAL	238	--	2,854	531	3,623	1,660	5,283
SOUTHWEST	--	--	680	--	680	--	680
CENTRAL	--	--	--	--	--	--	--
BLUE MOUNTAIN	--	--	--	--	--	--	--
ALL AREAS	238	--	4,995	1,060	6,293	1,904	8,197
ALL TYPES OF RESIDUE:							
NORTHWEST	--	--	2,204	933	3,137	464	3,601
WEST-CENTRAL	955	--	3,695	1,136	5,786	1,660	7,446
SOUTHWEST	--	--	1,330	--	1,330	--	1,330
CENTRAL	--	--	--	--	--	--	--
BLUE MOUNTAIN	--	--	--	--	--	--	--
ALL AREAS	955	--	7,229	2,069	10,253	2,124	12,377

^a Residues are not necessarily used in the area or county in which they are produced.

^b Coarse residue includes log trim, cores, veneer clippings, rejected veneer, roundup, spur trim, and end-block trim.

^c Fine residue includes sander dust.

Table 69—Production and disposition of bark residue by shake and shingle mills, by resource area and use, Oregon, 1988

RESOURCE AREA	USED ^a					UNUSED	ALL BARK
	PULP	BOARD	FUEL	MISCELLANEOUS	TOTAL		
	<u>TONS, DRY WEIGHT</u>						
NORTHWEST	--	--	1,289	69	1,358	147	1,505
WEST-CENTRAL	289	--	2,126	70	2,485	160	2,645
SOUTHWEST	--	--	790	--	790	--	790
CENTRAL	--	--	--	--	--	--	--
BLUE MOUNTAIN	--	--	--	--	--	--	--
ALL AREAS	289	--	4,205	139	4,633	307	4,940

^a Residues are not necessarily used in the area in which they are produced.

Howard, James O.; Franklin R. 1991. Oregon's forest products industry: 1988. Resour. Bull. PNW-RB-183. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station. 91 p.

This report presents the findings of a survey of all primary forest products industries in Oregon for 1988. The survey included the following sectors: lumber; veneer and plywood; pulp and board; shake and shingle; export; and post, pole, and piling. Tables, presented by sector and for the industry as a whole, include characteristics of the industry, nature and flow of logs consumed, and disposition of mill residues.

Keywords: Forest products industry, mill surveys, wood utilization, mill residues, Oregon.

The **Forest Service** of the 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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