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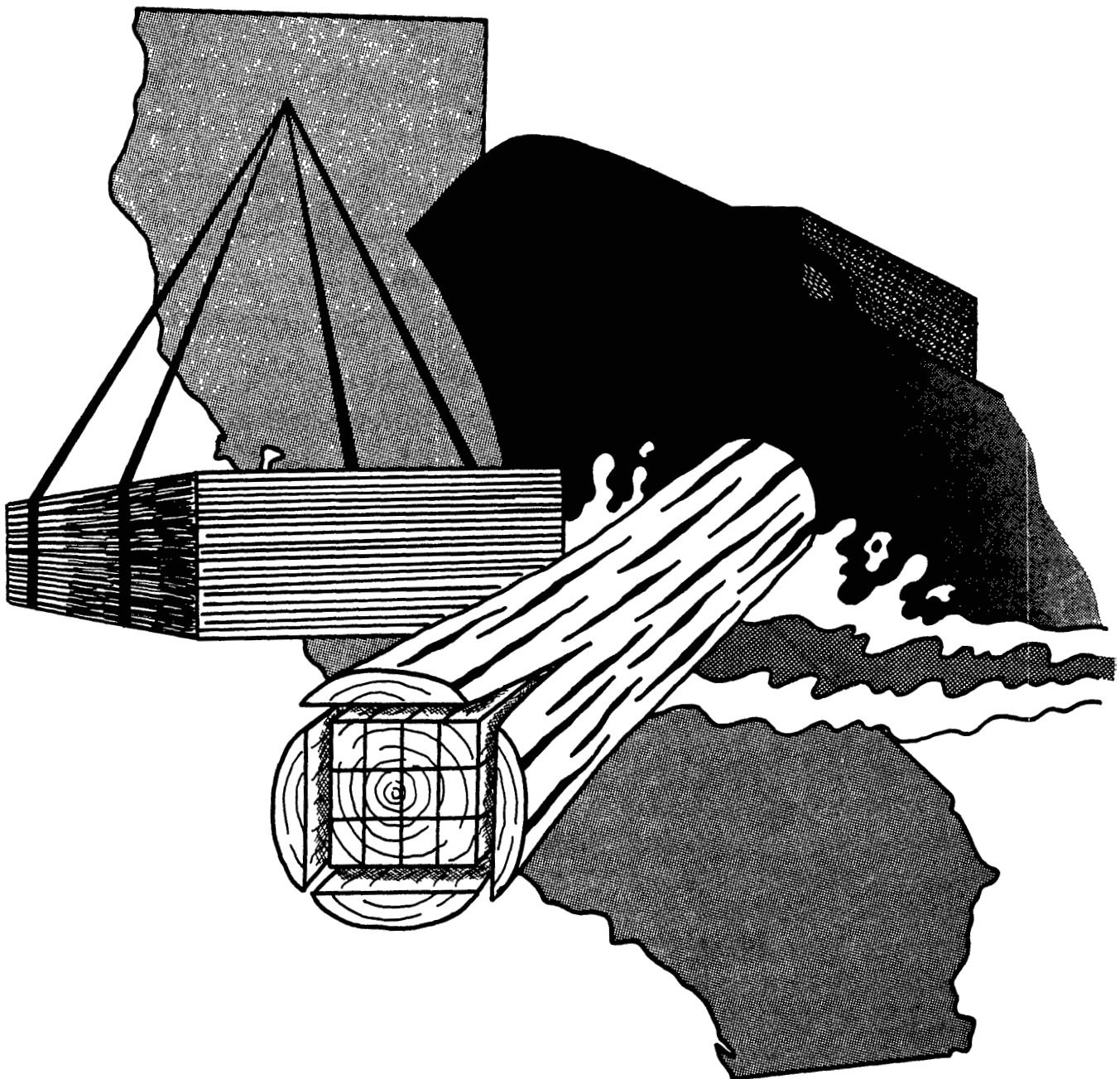
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California's Forest Products Industry: 1988

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ABSTRACT

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This report presents the findings of a survey of all primary forest products industries in California 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, California.

SUMMARY

This report presents the results of a survey of the primary wood-processing industry in California for 1988. Data for the surveys 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 California Department of Forestry, 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 California State Department of Forestry; and by the Pacific Northwest Forest and Range Experiment Station in 1972, 1976, 1982, and 1985. This survey identifies 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; post, pole, and piling; and export.

The survey identifies 124 separate operations that used a total of about 4.1 billion board feet of logs in 1988. The lumber (92 percent) and veneer and plywood (5 percent) sectors were the major users. In addition, the pulp and board industry used about 2.2 million tons of wood fiber, 99 percent of it in the form of mill residues. The industry as a whole generated about 7.3 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 **124**:

Type of mill	Number
Sawmills	93
Veneer and plywood	6
Pulp	4
Board	7
Shake and shingle	4
Log export	5
Post, pole, and piling	5

Humboldt County led all others with **24** mills, or **19** percent of the total for the State.

The **54** largest sawmills had **82** percent of total sawmill capacity.

Only **two** burners operated in the State in **1988**.

Wood Consumption

A total of **4,142** million board feet of logs was consumed.

Pulp and board industry consumed about **2.1** million tons of mill residues and offsite roundwood chips.

Leading counties in roundwood consumption were:

County	Million board feet
Humboldt	891
Mendocino	466
Shasta	447
Siskiyou	201
Trinity	175

About 53 percent of the logs were from trees younger than 100 years.

Private lands were the source for 57 percent of the log consumption; forest industry provided the largest share of total consumption, 45 percent; 41 percent was from National Forests.

Log consumption by industry was:

Industry	Percent
Sawmills	92.5
Veneer and plywood	4.7
Log export	1.4
Pulp and board	1.1
Post, pole, and piling	.3
Shake and shingle	<.1

Mill Residues

A total of almost **7.3** million tons of residues was generated:

Type of mill	Tons (dry weight) of residue
Sawmills	6,920,189
Veneer and plywood	344,634
Shake and shingle	686

Seventy-eight percent of the residue was wood, **22** percent was bark.

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

About **44** percent of wood residue went to pulp and board industries; 51 percent was used for fuel.

About **81** percent of bark was used for fuel; **17** percent was used for miscellaneous purposes.

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INTRODUCTION

The forest products industry of California has been a major factor in the supply of wood products for the State and the Nation. Nationally, the industry ranks second in lumber output, thereby accounting for **15** percent of softwood lumber production (Western Wood Products Association **1989**). The forest products industry also produced significant quantities of plywood, particle board, and hardboard.

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 outside of the service industry.

In **1988**, employment in the forest products industry was reported at **116,000** people (Western Wood Products Association **1989**). This figure is considerably higher than the **1982** and **1985** reports (73,000 and **95,000**, respectively). Between **1985** and **1988**, the number of mills operating in the State increased about **3** percent (**120** to **124**). The mills that continue to operate tend to be larger; for example, the average 8-hour-shift capacity of operating sawmills in **1988** was about **20** percent greater than those operating in **1985**.

Changes continue to occur in the forest products industry in California, much as they have over the past four decades. Fewer but more diversified mills result in more efficient and complete use of the timber resource. For this reason, up-to-date information on the forest industry is vital. Decisionmakers and planner, 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 and an in-depth look at the forest products industry in California during **1988**. Coupled with similar reports for **1968** (Barrette and others **1968**), **1972** (Howard **1974**), **1976** (Hiserote and Howard **1978**), **1982** (Howard **1984**), and **1985** (Howard and Ward **1986**), this information provides a basis for examining significant trends in industry characteristics and timber use.

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).

California has been divided into two timber-producing regions—coastal and interior (fig. 1). The coastal region consists of the counties west of the crest of the Coast Range, from Monterey County to the Oregon border. This region contains all the coastal redwood (*Sequoia sempervirens* (D. Don) Endl.) forests and extensive stands of Douglas-fir (*Pseudotsugamenziesii* (Mirb.) Franco). Within this region are **two** resource areas, defined by the nature of their timber resource and timber-trading patterns. The North Coast accounts for the greatest volume of log consumption in the State, and is the center for redwood and Douglas-fir processing (fig. 2). The forest industry of the Central Coast is not nearly as significant, having limited timber resources.

The interior region is divided into four resource areas that cover a wide diversity of forest types including pines (*Pinus* spp.), incense-cedar (*Libocedrus decurrens* Torr.), Douglas-fir, true firs (*Abies* spp.), and a mixed-conifer type. The importance of the forest industry and resource decreases from north to south. The Northern Interior, Sacramento, and San Joaquin areas are major timber producers and support a significant industry. Size of the forest industry in the southern California areas is very limited and supported by a small timber resource base. Only two mills were reported to be operating in southern California in **1988**.

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

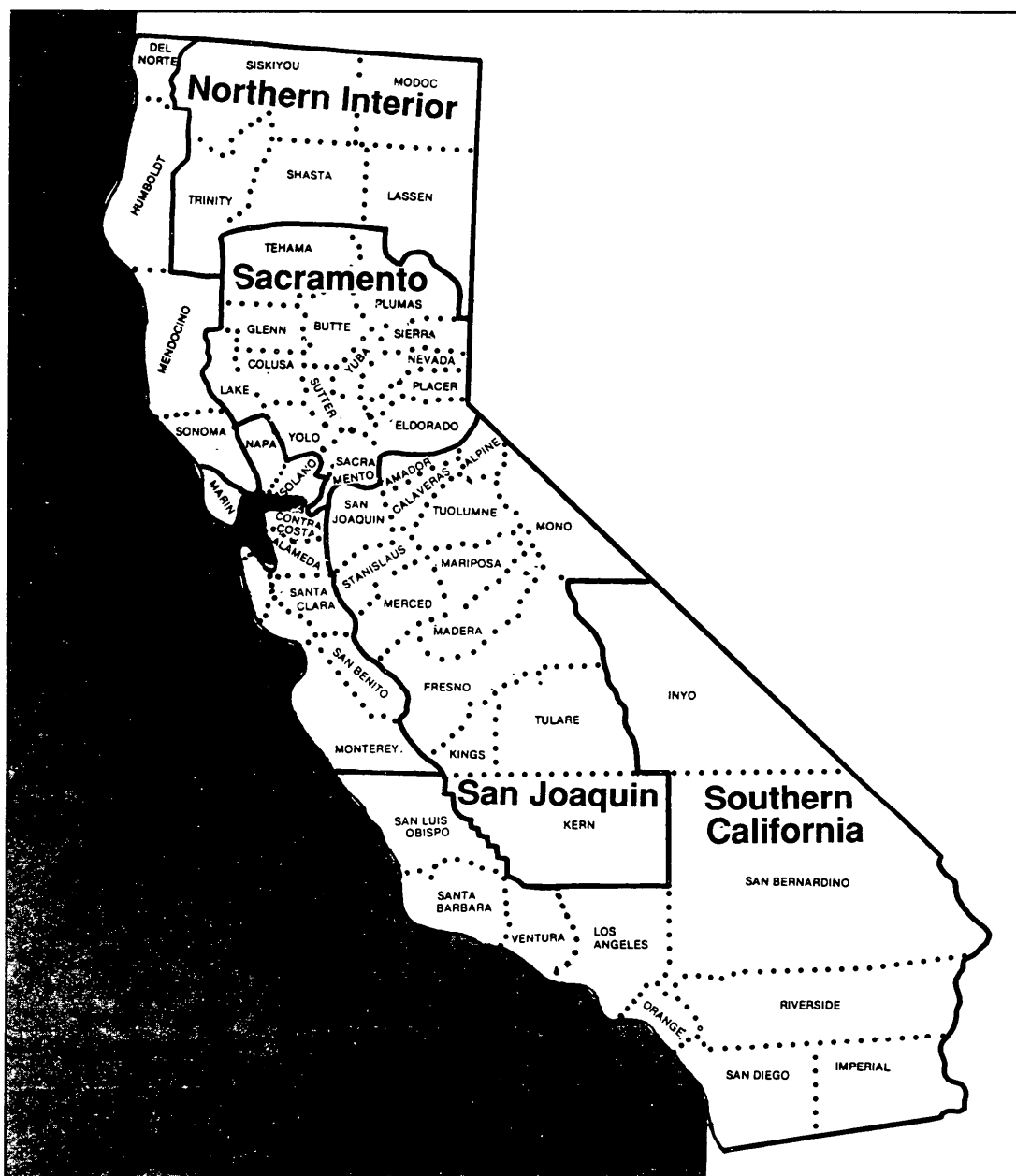


Figure 1—Resource areas for 1988 California forest products industry survey.

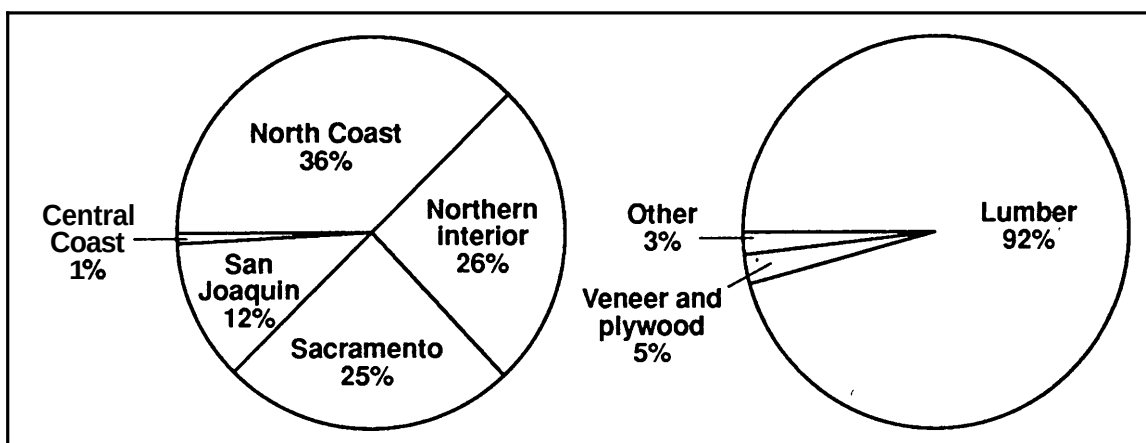


Figure 2—Distribution of log consumption by resource areas and industry, California 1988.

COMPARISON WITH PREVIOUS SURVEYS

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

Number of mills by year

<u>Industry</u>	<u>1968</u>	<u>1972</u>	<u>1976</u>	<u>1982</u>	<u>1985</u>	<u>1988</u>
Sawmills	216	176	142	101	89	93
Veneer and plywood	26	25	21	10	6	6
Pulp and board	17	18	17	10	11	11
Shake and shingle	3	7	7	4	3	4
Post, pile, and piling	2	6	6	5	6	5
Log export	<u>13</u>	<u>5</u>	<u>7</u>	<u>4</u>	<u>5</u>	<u>5</u>
Total	275	238	200	134	120	124

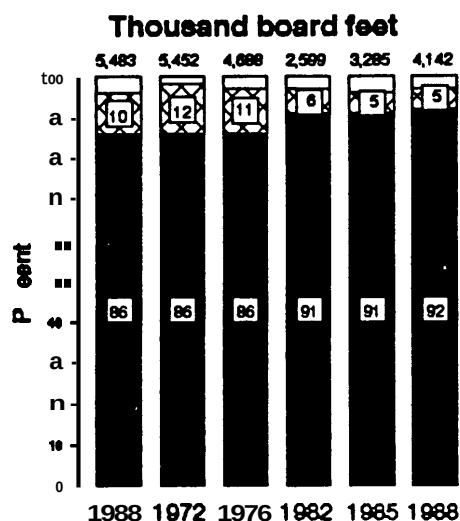


Figure 3—Log consumption by industry.

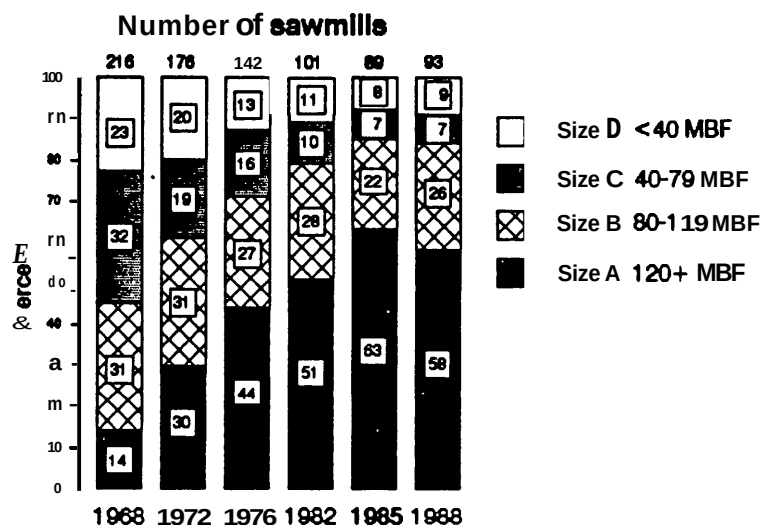


Figure 4—Sawmills by size class.

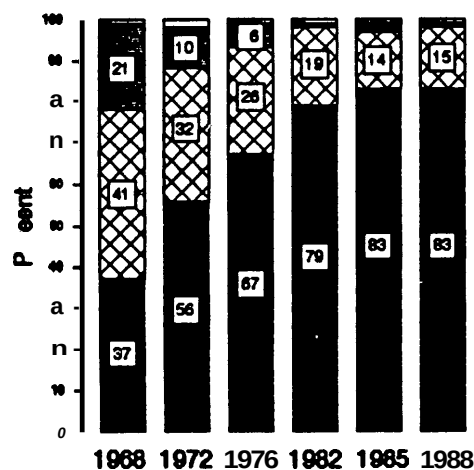


Figure 5—Log consumption by size class.

² The post, pole, and piling category was not included in the 1968 survey.

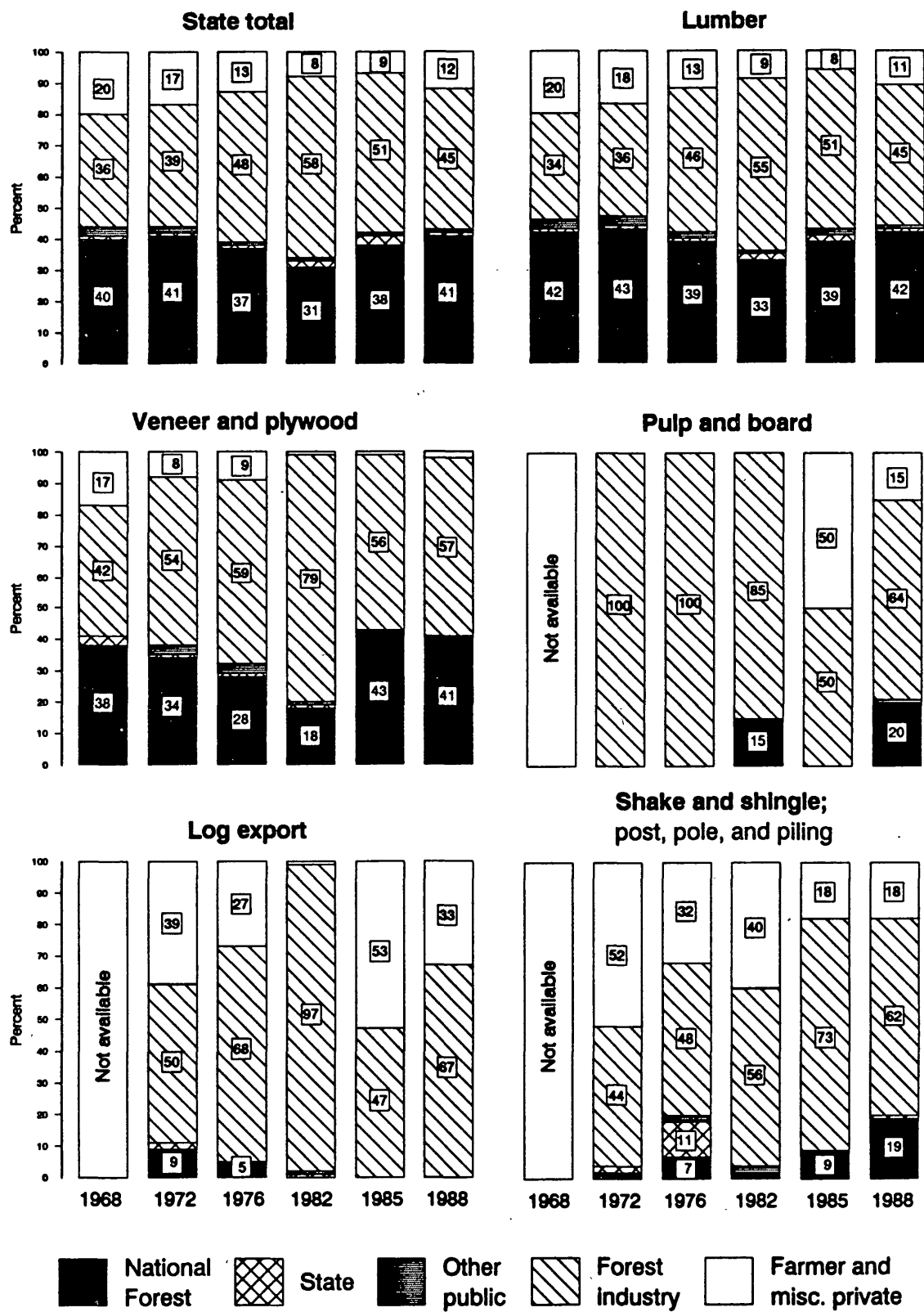


Figure 6—Log consumption by ownership class and industry.

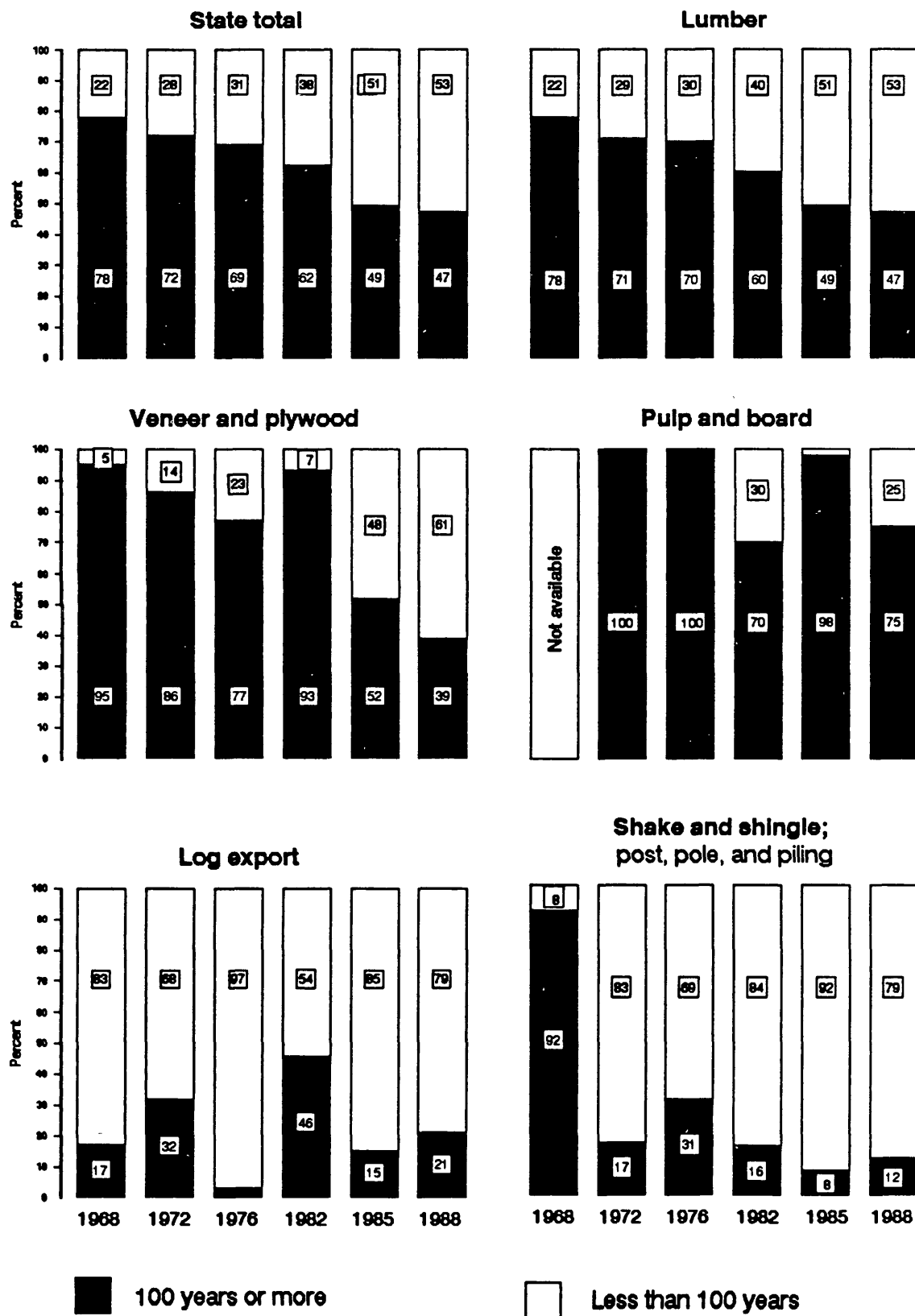


Figure 7—Log consumption by timber age group and industry.

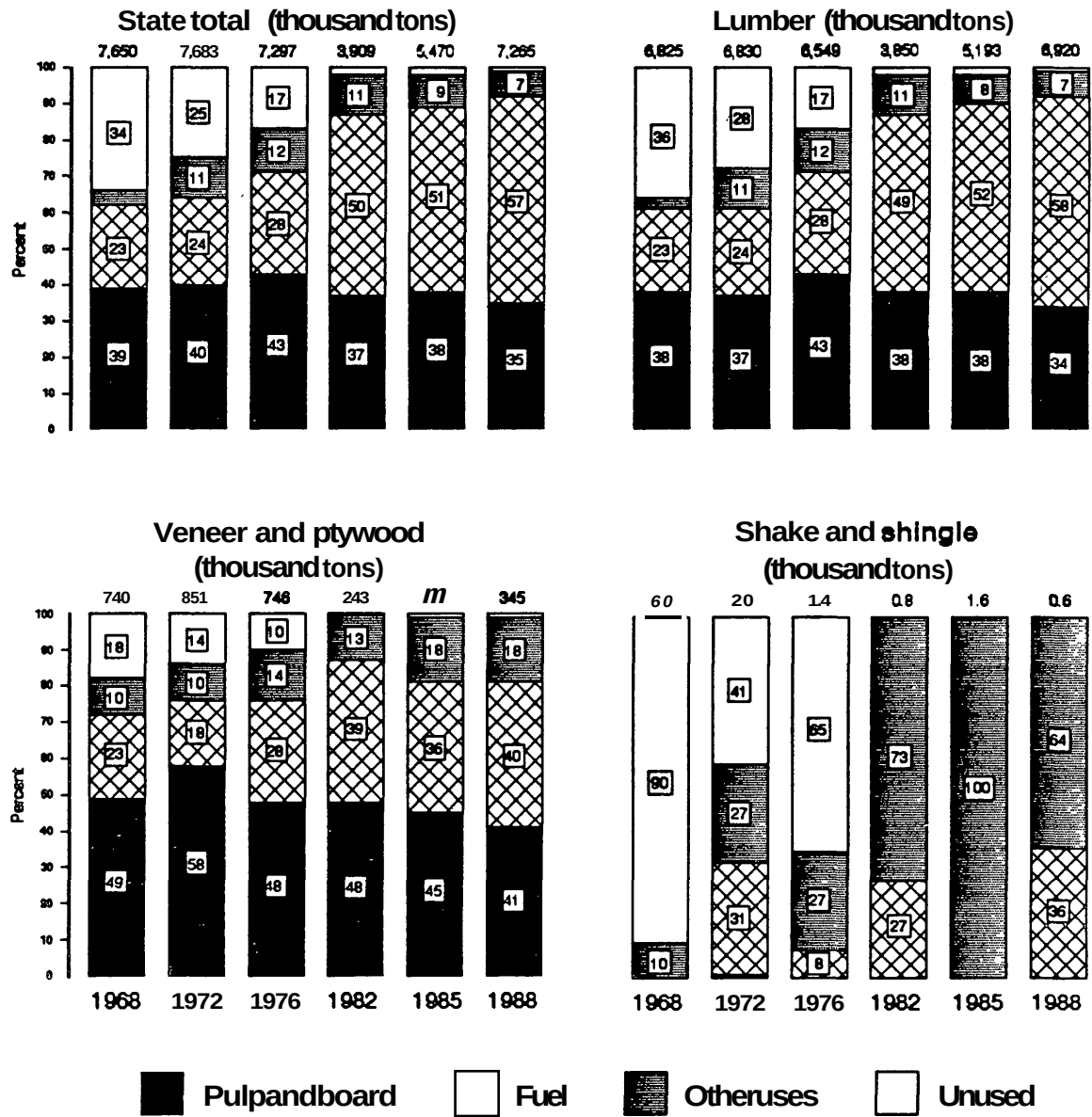


Figure 8—Production and disposition of wood and bark residue by use and industry.

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 California, Department of Forestry, 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) consumed by plywood mills and mill residues (tons, dry weight) consumed by pulpmills and board mills. All board-foot log volumes are reported in local scale. No attempt was made to account for variations in scaling standards or to convert to a common scale. 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 were therefore 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, white woods—Average quantity of residues developed from producing 1,000 board feet of **lumber**:³

<u>Item</u>	<u>Dry weight</u>
	Tons
Wood residue:	
Slabs, edgings, sawmill trim	0.508
Planer trim	.038
Sawdust	.279
Planer shavings	.203
Total	1.028
Bark	.285
All residue	1.313

³ Based on data from Oregon mills compiled by Oregon State University, School of Forestry, in 1967. Dry weights adjusted for different species mix used in California, primarily ponderosa pine and Douglas-fir.

Softwood sawmill residue, redwood and Incensecedar—Average quantity of residues developed from producing 1,000 board feet of **lumber**:⁴

Item	Dry weight
	Tons
Wood residue:	
Slabs, edgings, sawmill trim	0.711
Sawdust	.225
Planer shavings	.154
Total	1.090
Bark	.300
All residue	1.390

Softwood plywood residue—Average quantity of residue developed in producing the equivalent of 1,000 square feet of **3/8-inch** plywood (rough **basis**):⁵

Type of output	Solid volume ⁶	Dry weight
	Cubic feet	Tons
Wood residue:		
Logtrim	3.4	0.046
Core	3.7	.050
Veneer clip, roundup, and spur trim	18.5	.250
Dry trim and layup loss	6.5	.088
Sander dust	1.6	.022
Total	33.7	.456
Bark	8.8	.132
Total	42.5	.588

⁴ Based on data from California mills from mill-scale studies made by the USDA Forest Service.

⁵ Based on data compiled by Oregon State University, School of Forestry, from Oregon mills in 1967. Because of the similarity of species used and mills, no adjustment was made in applying these data to California.

⁶ Based on equivalent green volume.

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 MBF ⁸
	Cubic feet	Percent	Tons
Shingles:			
Coarse	23	13.7	0.22
Fine	78	46.8	.75
Bark	19	11.5	.28
Shakes:			
Coarse	23	13.7	.22
Fine	24	14.5	.23
Bark	19	11.5	.28
Shingle and shake:			
Coarse	23	13.7	.22
Fine	51	30.6	.49
Bark	19	11.5	.28

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.

Sound log—Number **3** and better grade saw logs with the following minimum specifications: 6-inch diameter, **12-foot** length, 50-board-foot net scale.

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

⁷ From information provided by the Red Cedar Shingle Bureau, Bellevue, WA.

⁸ MBF = thousand feet board measure.

Appendix 2

All Industries (Tables 1–9)

Table 1—Number of mills by resource area and type of industry, California, 1988

RESOURCE AREA	LUMBER	VENEER AND PLYWOOD	PULP AND BOARD ^a	OTHER INDUSTRIES			ALL INDUSTRIES
				SHAKE AND SHINGLE	EXPORT ^b	POST, POLE, AND PILING	
NORTH COAST	35	1	5	4	3	--	48
CENTRAL COAST	3	--	1	--	1	--	5
NORTH INTERIOR	20	2	1	--	--	2	25
SACRAMENTO	24	2	3	--	1	1	31
SAN JOAQUIN	10	1	1	--	--	1	13
SOUTHERN	1	--	--	--	--	1	2
ALL AREAS	93	6	11	4	5	5	124

^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, California, 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
NORTH COAST:					
LUMBER	1,371,499	12,906	1,384,405	--	--
PULP AND BOARD'	--	46,899	46 ,899	--	1 ,309,907
SHAKE AND SHINGLE	1,279	107	1.386	122	--
TOTAL	1,372,778	59,912	1,432,690	122	1,309,907
CENTRAL COAST:					
LUMBER	31,455	325	31,780	--	--
PULP AND BOARD ^d	--	--	--	--	--
TOTAL	31,455	325	31,780	--	--
NORTH INTERIOR:					
LUMBER	907 ,043	26,717	933 ,760	--	--
PULP AND BOARD ^c	--	--	--	--	--
TOTAL	907,043	26,717	933 ,760	--	--
SACRAMENTO:					
LUMBER	963 ,344	29 ,987	993,331	--	--
PULP AND BOARD ^d	--	--	--	--	795 ,575
TOTAL	963 ,344	29 ,987	993,331	--	795 ,575
SAN JOAQUIN:					
LUMBER ^e	423 ,729	63 ,704	487 ,433	--	--
PULP AND BOARD ^d	--	--	--	--	--
TOTAL	423 ,729	63 ,704	487 ,433	--	--
SOUTHERN :					
LUMBER ^e					
TOTAL	--	--	--	--	--
ALL AREAS:					
LUMBER	3,697,070	133,639	3,830 ,709	--	--
VENEER AND PLYWOOD ^f	185 ,712	10,044	195 ,756	--	--
PULP AND BOARD	--	46 ,899	46 ,899	--	2,105,482
SHAKE AND SHINGLE	1,279	107	1,386	122	--
EXPORT ^f	46 ,265	10,627	56 ,892	--	--
POST , POLE, AND PILING ^f	10,849	--	10,849	--	--
TOTAL	3,941 ,175	201,316	4,142,491	122	2 ,105,482

^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 North Coast and Northern Interior combined to avoid disclosure.

^d Central Coast, Sacramento, and San Joaquin combined to avoid disclosure.

^e Southern and San Joaquin combined to avoid disclosure.

^f All resource areas combined to avoid disclosure.

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

RESOURCE AREA AND INDUSTRY	CALIFORNIA	OREGON	WASHINGTON	OTHER	ALL STATES
<u>THOUSAND BOARD FEET, SCRIBNER LOG RULE</u>					
NORTH COAST:					
LUMBER	1,382,708	1,697	--	--	1,384,405
PULP AND BOARD ^a	46,899	--	--	--	46,899
SHAKE AND SHINGLE	1,386	--	--	--	1,386
TOTAL	1,430,993	1,697	--	--	1,432,690
CENTRAL COAST:					
LUMBER	31,780	--	--	--	31,780
PULP AND BOARD ^b	--	--	--	--	--
TOTAL	31,780	--	--	--	31,780
NORTHERN INTERIOR:					
LUMBER	928,760	5,000	--	--	933,760
PULP AND BOARD ^a	--	--	--	--	--
TOTAL	928,760	5,000	--	--	933,760
SACRAMENTO:					
LUMBER	993,331	--	--	--	993,331
PULP AND BOARD ^b	--	--	--	--	--
TOTAL	993,331	--	--	--	993,331
SAN JOAQUIN:					
LUMBER	487,433	--	--	--	487,433
PULP AND BOARD ^b	--	--	--	--	--
TOTAL	487,433	--	--	--	487,433
SOUTHERN:					
LUMBER ^c	--	--	--	--	--
TOTAL	--	--	--	--	--
ALL AREAS:					
LUMBER	3,824,012	6,697	--	--	3,830,709
VENEER AND PLYWOOD ^d	193,006	2,750	--	--	195,756
PULP AND BOARD	46,899	--	--	--	46,899
SHAKE AND SHINGLE	1,386	--	--	--	1,386
EXPORT ^d	56,892	--	--	--	56,892
POST, POLE, AND PILING ^d	6,496	2,278	1,418	657	10,849
TOTAL	4,128,691	11,725	1,418	657	4,142,491

^a North Coast and Northern Interior combined to avoid disclosure.^b Central Coast, Sacramento, and San Joaquin combined to avoid disclosure.^c Southern and San Joaquin combined to avoid disclosure.^d All resource areas combined to avoid disclosure.

Table 4--Log flows by resource area, county of use, and county and out-of-state origin, California, 1988

RESOURCE AREA AND COUNTY OF USE	NORTH COAST					CENTRAL COAST			NORTHERN INTERIOR				
	TOTAL	DEL NORTE	HUMBOLDT	HENDOCINO	SONOMA	SAN MATEO	SANTA CLARA	SANTA CRUZ	LASSEN	MODOC	SHASTA	SISKIYOU	TRINITY
	THOUSAND BOARD FEET, SCRIBNER LOG RULE												
NORTH COAST:													
DEL NORTE	58,064	52,191	3,093	--	--	--	--	--	--	--	--	--	--
HUMBOLDT	890,899	65,547	739,561	18,512	--	--	--	--	--	--	12,000	932	52,680
MENDOCINO	465,665	--	670	419,029	12,522	--	--	--	--	--	--	--	670
SONOMA	62,449	--	--	31,435	22,433	--	--	5,625	--	--	--	--	--
TOTAL	1,477,077	117,738	743,324	468,976	34,955	--	--	5,625	--	--	12,000	932	53,350
CENTRAL COAST: ^{a b}	35,974	--	1,003	1,002	--	9,375	2,211	20,194	--	--	438	109	876
TOTAL	35,974	--	1,003	1,002	--	9,375	2,211	20,194	--	--	438	109	876
NORTHERN INTERIOR:													
LASSEN AND MODOC ^c	174,710	--	--	--	--	--	--	--	85,863	48,804	5,087	420	--
SHASTA	446,790	--	68	18,089	--	--	--	--	73,253	27,897	152,125	108,716	21,032
SISKIYOU ^d	280,605	--	5	--	--	--	--	--	10,193	10,750	39,403	179,082	29,661
TRINITY	175,446	--	24,635	--	--	--	--	--	--	--	--	6,196	144,615
TOTAL	1,077,551	--	24,708	18,089	--	--	--	--	169,309	87,451	196,615	294,414	195,308
SACRAMENTO:													
BUTTE	86,640	--	--	42	--	--	--	--	--	--	1,582	163	--
EL DORADO, PLACER, AND SACRAMENTO ^e	308,787	--	--	--	--	--	--	--	--	--	--	--	--
NEVADA	92,434	--	--	--	--	--	--	--	--	--	--	--	--
PLUMAS AND SIERRA ^c	266,980	--	--	--	--	--	--	--	1,108	--	--	--	--
TEHAMA ^d	161,072	--	--	7,640	--	--	--	--	--	--	6,701	--	22,595
YUBA AND GLENN ^e	119,998	--	--	3,400	--	--	--	--	--	--	--	--	--
TOTAL	1,035,911	--	--	11,082	--	--	--	--	1,108	--	8,283	163	22,595
SAN JOAQUIN:													
FRESNO AND MADERA ^c	133,936	--	--	--	--	--	--	--	--	--	--	--	--
TULARE ^e	96,198	--	--	--	--	--	--	--	--	--	--	--	--
TUOLUMNE, AMADOR, AND SAN JOAQUIN ^c	285,844	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL	515,978	--	--	--	--	--	--	--	--	--	--	--	--
SOUTHERN:													
LOS ANGELES ^b	--	--	--	--	--	--	--	--	--	--	--	--	--
SAN BERNARDINO ^e	--	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL	--	--	--	--	--	--	--	--	--	--	--	--	--
ALL AREAS	4,142,491	117,738	769,035	499,149	34,955	9,375	2,211	25,819	170,417	87,451	217,336	295,618	272,129

See footnotes at end of table.

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

RESOURCE AREA AND COUNTY OF USE	SACRAMENTO											
	BUTTE	COLUSA	EL DORADO	GLENN	LAKE	NEVADA	PLACER	PLUMAS	SACRAMENTO	SIERRA	TEHAMA	YUBA
THOUSAND BOARD FEET. SCRIBNER LOG RULE												
NORTH COAST:												
DEL NORTE	--	--	--	--	--	--	--	--	--	--	--	--
HUMBOLDT	--	--	--	--	--	--	--	--	--	--	--	--
MENDOCINO	--	--	--	--	32,774	--	--	--	--	--	--	--
SONOMA	--	--	--	--	2,956	--	--	--	--	--	--	--
TOTAL	--	--	--	--	35,730	--	--	--	--	--	--	--
CENTRAL COAST: ^{a b}	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL	--	--	--	--	--	--	--	--	--	--	--	--
NORTHERN INTERIOR:												
LASSEN AND MOODOC ^c	1,458	--	--	--	--	--	--	33,078	--	--	--	--
SHASTA	18,797	--	--	--	--	--	2,500	4,207	--	5,980	13,854	--
SIERRA ^d	3,193	--	--	--	--	--	--	--	--	--	3,193	--
TRINITY	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL	23,448	--	--	--	--	--	2,500	37,285	--	5,980	17,047	--
SACRAMENTO:												
BUTTE	50,043	15	--	12,664	4,493	358	--	17,157	--	--	--	123
EL DORADO, PLACER, AND SACRAMENTO ^c	3,800	--	193,253	--	--	22,943	49,262	17,250	--	1,150	--	--
NEVADA	--	--	28,600	--	--	15,480	12,323	--	--	36,031	--	--
PLUMAS AND SIERRA	8,519	--	--	--	--	--	--	178,598	--	78,755	--	--
TEHAMA	57,432	--	--	--	404	--	--	2,500	--	--	63,800	23,230
YUBA AND GLENN ^c	360	20,400	14,126	480	1,981	14,703	3,375	18,750	--	19,193	--	--
TOTAL	120,154	20,415	235,979	13,144	6,878	53,484	64,960	234,255	--	135,129	63,800	23,353
SAN JOAQUIN:												
FRESNO AND MADERA ^c	--	--	--	--	--	--	--	--	--	--	--	--
TULARE ^e	--	--	--	--	--	--	--	--	--	--	--	--
TUOLUMNE, AHADOR, AND SAN JOAQUIN ^c	355	--	11,145	--	--	--	--	--	--	--	--	--
TOTAL	355	--	11,145	--	--	--	--	--	--	--	--	--
SOUTHERN:												
LOS ANGELES ^b	--	--	--	--	--	--	--	--	--	--	--	--
SAN BERNARDINO ^e	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL	--	--	--	--	--	--	--	--	--	--	--	--
ALL AREAS	143,957	20,415	247,124	13,144	42,608	53,484	67,460	271,540	--	141,109	80,847	23,353

See footnotes at end of table.

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

SAN JOAQUIN													OUT-OF-
RESOURCE AREA AND COUNTY OF USE	ALPINE	AMADOR	CALAVERAS	FRESNO	KERN	MADERA	MARIPOSA	STANISLAUS	TULARE	TUOLUMNE	SAN BERNARDINO	STATE	
THOUSAND BOARD FEET. SCRIBNER LOG RULE													
NORTH COAST:													
DEL NORTE	--	--	--	--	--	--	--	--	--	--	--	2,780	
HUMBOLDT	--	--	--	--	--	--	--	--	--	--	--	1,667	
MENDOCINO	--	--	--	--	--	--	--	--	--	--	--	--	
SONOMA	--	--	--	--	--	--	--	--	--	--	--	--	
TOTAL	--	--	--	--	--	--	--	--	--	--	--	4,447	
CENTRAL COAST: ^{a b}	--	--	--	--	--	--	--	--	--	--	--	766	
TOTAL	--	--	--	--	--	--	--	--	--	--	--	766	
NORTHERN INTERIOR:													
LASSEN AND MODOC ^c	--	--	--	--	--	--	--	--	--	--	--	--	
SHASTA	--	--	--	--	--	--	--	--	--	--	--	272	
SISKIYOU ^d	--	--	--	--	--	--	--	--	--	--	--	5,125	
TRINITY	--	--	--	--	--	--	--	--	--	--	--	--	
TOTAL	--	--	--	--	--	--	--	--	--	--	--	5,397	
SACRAMENTO:													
BUTTE	--	--	--	--	--	--	--	--	--	--	--	--	
ELDORADO, PLACER, AND SACRAMENTO ^c	--	8,750	--	--	--	--	--	12,379	--	--	--	--	
NEVADA	--	--	--	--	--	--	--	--	--	--	--	--	
PLUMAS AND SIERRA ^c	--	--	--	--	--	--	--	--	--	--	--	--	
TEHAMA ^d	--	--	--	--	--	--	--	--	--	--	--	--	
YUBA AND GLENN ^c	--	--	--	--	--	--	--	--	--	--	--	--	
TOTAL	--	8,750	--	--	--	--	--	12,379	--	--	--	--	
SAN JOAQUIN:													
FRESNO AND MADERA ^c	--	--	--	60,301	--	67,557	6,078	--	--	--	--	--	
TULARE ^e	--	--	--	30,744	12,107	--	--	--	51,459	--	1,888	--	
TUOLUMNE, AMADOR AND SAN JOAQUIN ^c	3,000	43,930	68,314	--	--	--	28,920	--	--	126,990	--	3,190	
TOTAL	3,000	43,930	68,314	91,045	12,107	67,557	34,998	--	51,459	126,990	1,888	3,190	
SOUTHERN:													
LOS ANGELES ^b	--	--	--	--	--	--	--	--	--	--	--	--	
SAN BERNADINO ^e	--	--	--	--	--	--	--	--	--	--	--	--	
TOTAL	--	--	--	--	--	--	--	--	--	--	--	--	
ALL AREAS	3,000	52,680	68,314	91,045	12,107	67,557	34,998	12,379	51,459	126,990	1,888	13,800	

^a Alameda, Contra Costa, Monterey, and Santa Cruz Counties combined to avoid disclosure.

^b Central Coast includes 1 post, pole, and piling operation from Los Angeles County, combined to avoid disclosure.

^c Combined to avoid disclosure.

^d Siskiyou County includes 1 veneer and plywood mill from Tehama County, combined to avoid disclosure.

^e Tulare County includes 1 sawmill from San Bernardino County, combined to avoid disclosure.

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

RESOURCE AREA AND COUNTY OF USE	EL DORADO	KLAMATH	LASSEN	MENDOCINO	MODOC	PLUMAS	SAN BERNARDINO
THOUSAND BOARD FEET, SCRIBNER LOG RULE							
NORTH COAST:							
DEL NORTE	--	--	--	--	--	--	--
HUMBOLDT	--	6,117	--	188	--	--	--
MENDOCINO	--	--	--	61,082	--	--	--
SONOMA	--	--	--	3,547	--	--	--
TOTAL	--	6,117	--	64,817	--	--	--
CENTRAL COAST: ^{a b}							
TOTAL	--	--	--	--	--	--	--
NORTHERN INTERIOR:							
LASSEN AND MODOC ^c	--	--	68,378	--	37,465	27,994	--
SHASTA	--	8,002	50,295	15,982	8,302	7,475	--
SIERRA ^d	--	120,760	2,229	958	10,825	--	--
TRINITY	--	5,117	--	--	--	--	--
TOTAL	--	133,879	120,902	16,940	56,592	35,469	--
SACRAMENTO:							
BUTTE	--	--	--	4,354	--	25,662	--
EL DORADO, PLACER AND SACRAMENTO ^c	81,048	--	--	--	--	13,685	--
NEVADA	14,300	--	--	--	--	--	--
PLUMAS AND SIERRA ^c	--	--	1,391	--	--	93,529	--
TEHAMA	--	--	5,696	3,934	--	4,068	--
YUBA AND GLENN ^c	13,610	--	--	4,141	--	29,147	--
TOTAL	108,958	--	7,087	12,429	--	166,091	--
SAN JOAQUIN:							
FRESNO AND MADERA ^c	--	--	--	--	--	--	--
TULARE	--	--	--	--	--	--	1,419
TUOLUMNE, AMADOR, AND SAN JOAQUIN ^c	35,658	--	--	--	--	23	--
TOTAL	35,658	--	--	--	--	23	1,419
SOUTHERN :							
LOS ANGELES ^b	--	--	--	--	--	--	--
SAN BERNARDINO ^e	--	--	--	--	--	--	--
TOTAL	--	--	--	--	--	--	--
ALL AREAS	144,616	139,996	127,989	94,186	56,592	201,583	1,419

See footnotes at end of table.

Table 5—Log flows to mills from National Forests, by resource area and county of use, California, 1988 (continued)

RESOURCE AREA AND COUNTY OF USE	SEQUOIA	SHASTA- TRINITY	SIERRA	SIX RIVERS	STANISLAUS	TAHOE	OUT-OF-STATE FORESTS	ALL FORESTS
THOUSAND BOARD FEET, SCRIBNER LOG RULE								
NORTH COAST:								
DEL NORTE	--	--	--	4,098	--	--	2,770	6,868
HUMBOLDT	--	11,266	--	106,012	--	--	950	124,533
MENDOCINO	--	938	--	--	--	--	--	62,020
SONOMA	--	--	--	--	--	--	--	3,547
TOTAL	--	12,204	--	110,110	--	--	3,720	196,968
CENTRAL COAST: ^{a b}	--	219	--	--	--	--	--	219
TOTAL	--	219	--	--	--	--	--	219
NORTHERN INTERIOR:								
LASSEN AND MODOC ^c	--	7,560	--	--	--	--	--	141,397
SHASTA	--	83,916	--	--	--	5,322	--	179,294
SISKIYOU ^d	--	17,915	--	--	--	--	--	152,687
TRINITY	--	112,817	--	12,604	--	--	--	130,538
TOTAL	--	222,208	--	12,604	--	5,322	--	603,916
SACRAMENTO:								
BUTTE	--	--	--	--	--	7,277	--	37,293
EL DORADO, PLACER, AND SACRAMENTO ^c	--	--	--	--	13,660	28,068	--	136,461
NEVADA	--	--	--	--	--	25,712	--	40,012
PLUMAS AND SIERRA ^c	--	--	--	--	--	65,148	--	160,068
TEHAMA ^d	--	12,663	--	--	--	--	--	26,361
YUBA AND GELNN ^c	--	--	--	--	--	43,695	--	90,593
TOTAL	--	12,663	--	--	13,660	169,900	--	490,788
SAN JOAQUIN:								
FRESNO AND MADERA ^c	--	--	123,075	--	1,732	--	--	124,807
TULARE ^e	60,136	--	28,899	--	--	--	--	90,454
TUOLUMNE, AMADOR, AND SAN JOAQUIN ^c	--	--	--	--	168,886	2,400	1,147	208,114
TOTAL	60,136	--	151,974	--	170,618	2,400	1,147	423,375
SOUTHERN:								
LOS ANGELES ^b	--	--	--	--	--	--	--	--
SAN BERNADINO ^e	--	--	--	--	--	--	--	--
TOTAL	--	--	--	--	--	--	--	--
ALL AREAS	60,136	247,294	151,974	122,714	184,278	177,622	4,867	1,715,266

^a Alameda, Contra Costa, Monterey, and Santa Cruz Counties combined to avoid disclosure.^b Central Coast includes 1 post, pole, and piling operation from Los Angeles County, combined to avoid disclosure.^c Combined to avoid disclosure.^d Siskiyou County includes 1 veneer and plywood mill from Tehama County, combined to avoid disclosure.^e Tulare county includes 1 sawmill from San Bernardino County, combined to avoid disclosure.

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

RESOURCE AREA	EL DORADO	KLAMATH	LASSEN	MENDOCINO	MODOC	PLUMAS	SAN BERNARDINO
THOUSAND BOARD FEET, SCRIBNER LOG RULE							
NORTH COAST:							
LUMBER	--	5,648	--	64,629	--	--	--
PULP AND BOARD	--	469	--	188	--	--	--
SHAKE AND SHINGLE	--	--	--	--	--	--	--
TOTAL	--	6,117	--	64,817	--	--	--
CENTRAL COAST:							
LUMBER	--	--	--	--	--	--	--
PULP AND BOARD ^b	--	--	--	--	--	--	--
TOTAL	--	--	--	--	--	--	--
NORTHERN INTERIOR:							
LUMBER	--	98,879	120,423	15,982	49,592	35,469	--
PULP AND BOARD ^a	--	--	--	--	--	--	--
TOTAL	--	98,879	120,423	15,982	49,592	35,469	--
SACRAMENTO:							
LUMBER	107,634	--	7,087	11,755	--	166,016	--
PULP AND BOARD ^b	--	--	--	--	--	--	--
TOTAL	107,634	--	7,087	11,755	--	166,016	--
SAN JOAQUIN:							
LUMBER ^c	35,658	--	--	--	--	--	1,419
PULP AND BOARD ^b	--	--	--	--	--	--	--
TOTAL	35,658	--	--	--	--	--	1,419
SOUTHERN:							
LUMBER ^c	--	--	--	--	--	--	--
TOTAL	--	--	--	--	--	--	--
ALL AREAS:							
LUMBER	143,292	104,527	127,510	92,366	49,592	201,485	1,419
VENEER AND PLYWOOD ^d	1,324	35,000	479	958	7,000	--	--
PULP AND BOARD	--	469	--	188	--	--	--
SHAKE AND SHINGLE	--	--	--	--	--	--	--
EXPORT	--	--	--	--	--	--	--
POST, POLE, AND PILING ^d	--	--	--	674	--	98	--
TOTAL	144,616	139,996	127,989	94,186	56,592	201,583	1,419

See footnotes at end of table.

Table 6—Log flows to mills from National Forests, by resource area and industry, California, 1988 (continued)

RESOURCE AREA	SEQUOIA	SHASTA- TRINITY	SIERRA	SIX RIVERS	STANISLAUS	TAHOE	OUT-OF-STATE FORESTS	ALL FORESTS
THOUSAND BOARD FEET, SCRIBNER LOG RULE								
NORTH COAST:								
LUMBER	--	11,454	--	102,137	--	--	970	184,838
PULP AND BOARD ^a	--	750	--	7,973	--	--	--	9,380
SHAKE AND SHINGLE	--	--	--	--	--	--	--	--
TOTAL	--	12,204	--	110,110	--	--	970	194,218
CENTRAL COAST:								
LUMBER	--	--	--	--	--	--	--	--
PULP AND BOARD ^b	--	--	--	--	--	--	--	--
TOTAL	--	--	--	--	--	--	--	--
NORTHERN INTERIOR:								
LUMBER	--	210,669	--	12,604	--	5,322	--	548,940
PULP AND BOARD ^c	--	--	--	--	--	--	--	--
TOTAL	--	210,669	--	12,604	--	5,322	--	548,940
SACRAMENTO:								
LUMBER	--	12,663	--	--	13,660	169,900	--	488,715
PULP AND BOARD ^b	--	--	--	--	--	--	--	--
TOTAL	--	12,663	--	--	13,660	169,900	--	488,715
SAN JOAQUIN:								
LUMBER ^c	60,136	--	151,974	--	148,618	2,400	--	400,205
PULP AND BOARD ^b	--	--	--	--	--	--	--	--
TOTAL	60,136	--	151,974	--	148,618	2,400	--	400,205
SOUTHERN:								
LUMBER ^c	--	--	--	--	--	--	--	--
TOTAL	--	--	--	--	--	--	--	--
ALL AREAS:								
LUMBER	60,136	234,786	151,974	114,741	162,278	177,622	970	1,622,698
VENEER AND PLYWOOD ^d	--	11,353	--	--	22,000	--	2,750	80,864
PULP AND BOARD	--	750	--	7,973	--	--	--	9,380
SHAKE AND SHINGLE	--	--	--	--	--	--	--	--
EXPORT	--	--	--	--	--	--	--	--
POST, POLE, AND PILING ^d	--	405	--	--	--	--	1,147	2,324
TOTAL	60,136	247,294	151,974	122,714	184,278	177,622	4,867	1,715,266

^a North Coast and Northern Interior combined to avoid disclosure.^b Central Coast, Sacramento, and San Joaquin combined to avoid disclosure.^c Southern and San Joaquin combined to avoid disclosure.^d ALL resource areas combined to avoid disclosure.

Table 7--Log consumption by mills, by resource area, industry, and owner, California, 1988

RESOURCE AREA AND INDUSTRY	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								
NORTH COAST:								
LUMBER	22,077	184,838	7,328	--	858,858	140,843	170,461	1,384,405
PULP AND BOARD	--	9,380	--	469	14,070	15,945	7,035	46,899
SHAKE AND SHINGLE	--	--	--	--	--	1,159	227	1,386
TOTAL	22,077	194,218	7,328	469	872,928	157,947	177,723	1,432,690
CENTRAL COAST:								
LUMBER	--	--	--	--	8,052	3,328	20,400	31,780
PULP AND BOARD ^b	--	--	--	--	--	--	--	--
TOTAL	--	--	--	--	8,052	3,328	20,400	31,780
NORTH INTERIOR:								
LUMBER	7,573	548,940	10,525	--	191,706	101,085	73,931	933,760
PULP AND BOARD ^a	--	--	--	--	--	--	--	--
TOTAL	7,573	548,940	10,525	--	191,706	101,085	73,931	933,760
SACRAMENTO:								
LUMBER	--	488,715	2,872	13,387	237,302	101,644	149,411	993,331
PULP AND BOARD ^b	--	--	--	--	--	--	--	--
TOTAL	--	488,715	2,872	13,387	237,302	101,644	149,411	993,331
SAN JOAQUIN:								
LUMBER ^c	3,776	400,205	3,315	--	46,559	13,700	19,878	487,433
PULP AND BOARD ^b	--	--	--	--	--	--	--	--
TOTAL	3,776	400,205	3,315	--	46,559	13,700	19,878	487,433
SOUTHERN:								
LUMBER ^c	--	--	--	--	--	--	--	--
TOTAL	--	--	--	--	--	--	--	--
ALL AREAS:								
LUMBER	33,426	1,622,698	24,040	13,387	1,342,477	360,600	434,081	3,830,709
VENEER AND PLYWOOD ^d	--	80,864	--	--	52,967	58,875	3,050	195,756
PULP AND BOARD	--	9,380	--	469	14,070	15,945	7,035	46,899
SHAKE AND SHINGLE	--	--	--	--	--	1,159	227	1,386
EXPORT	--	--	--	--	2,005	16,887	38,000	56,892
POST, POLE, AND PILING ^d	130	2,324	--	--	406	6,025	1,964	10,849
TOTAL	33,556	1,715,266	24,040	13,856	1,411,925	459,491	484,357	4,142,491

^a North Coast and Northern Interior combined to avoid disclosure.^b Central Coast, Sacramento, and San Joaquin combined to avoid disclosure.^c Southern and San Joaquin combined to avoid disclosure.^d All resource areas combined to avoid disclosure.

Table 8—Log consumption by mills, by resource area, industry, and species, California, 1988

RESOURCE AREA AND INDUSTRY	DOUGLAS-FIR	REDWOOD	TRUE FIRS	SUGAR PINE	PONDEROSA PINE	LOOCEPOLE PINE	INCENSE- CEDAR	OTHER SOFTWOODS	HARDWOODS	ALL SPECIES
THOUSAND BOARD FEET, SCRIENER LOG RULE										
NORTH COAST:										
LUHEER	574,888	719,908	46,935	8,621	24,265	--	3,963	5,619	206	1,384,405
PULP AND BOARD ^a	17,353	--	--	1,407	938	--	--	5,159	22,042	46,899
SHAKE AND SHINGLE	--	--	--	--	--	--	29	1,357	--	1,386
TOTAL	592,241	719,908	46,935	10,028	25,203	--	3,992	12,135	22,248	1,432,690
CENTRAL COAST:										
LUHEER	2,748	29,032	--	--	--	--	--	--	--	31,780
PULP AND BOARD ^b	--	--	--	--	--	--	--	--	--	--
TOTAL	2,748	29,032	--	--	--	--	--	--	--	31,780
NORTH INTERIOR:										
LUMBER	274,173	--	178,956	81,621	319,447	1,646	71,197	6,720	--	933,760
PULP AND BOARD ^a	--	--	--	--	--	--	--	--	--	--
TOTAL	274,173	--	178,956	81,621	319,447	1,646	71,197	6,720	--	933,760
SACRAMENTO:										
LUMBER	145,085	--	373,067	119,731	299,103	13,600	31,740	10,623	382	993,331
WLP AND BOARD ^b	--	--	--	--	--	--	--	--	--	--
TOTAL	145,085	--	373,067	119,731	299,103	13,600	31,740	10,623	382	993,331
SAN JOAQUIN:										
LUMBER ^c	9,790	--	180,044	61,320	191,568	388	44,323	--	--	487,433
PULP AND BOARD ^b	--	--	--	--	--	--	--	--	--	--
TOTAL	9,790	--	180,044	61,320	191,568	388	44,323	--	--	487,433
SOUTHERN:										
LUMBER ^c	--	--	--	--	--	--	--	--	--	--
TOTAL	--	--	--	--	--	--	--	--	--	--
ALL AREAS:										
LUHEER	1,006,684	748,940	779,002	271,293	834,383	15,634	151,223	22,962	588	3,830,709
VENEER AND PLYWOOD ^d	48,400	3,300	139,182	--	1,324	3,000	--	550	--	195,756
PULP AND BOARD	17,353	--	--	1,407	938	--	--	5,159	22,042	46,899
SHAKE AND SHINGLE	--	--	--	--	--	--	29	1,357	--	1,386
EXPORT ^c	18,623	--	33,656	--	--	--	380	4,233	--	56,892
POST, POLE, AND PILING ^c	7,457	--	--	--	3,321	--	--	71	--	10,849
TOTAL	1,098,517	752,240	951,840	272,700	839,966	18,634	151,632	34,332	22,630	4,142,491

^a North Coast and Northern Interior combined to avoid disclosure.

^b Central Coast, Sacramento, and San Joaquin combined to avoid disclosure.

^c Southern and San Joaquin combined to avoid disclosure.

^d All resource areas combined to avoid disclosure.

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

RESOURCE AREA AND INDUSTRY	WOOD RESIDUE					
	USED ^a				UNUSED	ALL WOOD
	PULP AND BOARD	FUEL	MISCELLANEOUS	TOTAL		
TONS, DRY WEIGHT						
NORTH COAST: LUMBER	1,248,785	845,765	97,338	2,191,888	22,214	2,214,102
SHAKE AND SHINGLE	--	53	419	472	--	472
TOTAL	1,248,785	845,818	97,757	2,192,360	22,214	2,214,574
CENTRAL COAST: LUMBER	--	10,586	35,348	45,934	--	45,934
TOTAL	--	10,586	35,348	45,934	--	45,934
NORTH INTERIOR: LUMBER	506,174	733,792	10,862	1,250,828	--	1,250,828
TOTAL	506,174	733,792	10,862	1,250,828	--	1,250,828
SACRAMENTO: LUMBER	370,382	851,613	23,773	1,245,768	12,553	1,258,321
TOTAL	370,382	851,613	23,773	1,245,768	12,553	1,258,321
SAN JOAQUIN: LUMBER ^b	226,868	328,712	45,733	601,313	--	601,313
TOTAL	226,868	328,712	45,733	601,313	--	601,313
SOUTHERN: LUMBER ^b	--	--	--	--	--	--
TOTAL	--	--	--	--	--	--
ALL AREAS: LUMBER	2,352,209	2,770,468	213,054	5,335,731	34,767	5,370,498
VENEER AND PLYWOOD ^c	141,902	79,674	43,684	265,260	312	265,572
SHAKE AND SHINGLE	--	53	419	472	--	472
TOTAL	2,494,111	2,850,195	257,157	5,601,463	35,079	5,636,542

See footnotes at end of table.

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

RESOURCE AREA AND INDUSTRY	BARK RESIDUE						
	USED ^a				UNUSED	ALL BARK	ALL RESIDUE
	PULP AND BOARD	FUEL	MISCELLANEOUS	TOTAL			
NORTH COAST:							
LUMBER	--	542,331	69,659	611,990	27,280	639,270	2,853,372
SHAKE AND SHINGLE	--	195	19	214	--	214	686
TOTAL	--	542,526	69,678	612,204	27,280	639,484	2,854,058
CENTRAL COAST:							
LUMBER	--	--	13,886	13,886	--	13,886	59,820
TOTAL	--	--	13,886	13,886	--	13,886	59,820
NORTH INTERIOR:							
LUMBER	2,062	349,473	5,117	356,652	--	356,652	1,607,480
TOTAL	2,062	349,473	5,117	356,652	--	356,652	1,607,480
SACRAMENTO:							
LUMBER	2,531	310,994	48,174	361,699	--	361,699	1,620,020
TOTAL	2,531	310,994	48,174	361,699	--	361,699	1,620,020
SAN JOAQUIN:							
LUMBER ^b	--	60,181	118,003	178,184	--	178,184	779,497
TOTAL	--	60,181	118,003	178,184	--	178,184	779,497
SOUTHERN:							
LUMBER ^b	--	--	--	--	--	--	--
TOTAL							
ALL AREAS:							
LUMBER	4,593	1,262,979	254,839	1,522,411	27,280	1,549,691	6,920,189
VENEER AND PLYWOOD ^c	--	59,262	19,800	79,062	--	79,062	344,634
SHAKE AND SHINGLE	--	195	19	214	--	214	686
TOTAL	4,593	1,322,436	274,658	1,601,687	27,280	1,628,967	7,265,509

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

^b Southern and San Joaquin combined to avoid disclosure.

^c All areas combined to avoid disclosure.

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

RESOURCE AREA AND COUNTY	MILL-SIZE CLASS ^a				ALL CLASSES
	D	C	B	A	
NORTH COAST:					
DEL NORTE	1	--	1	1	3
HUMBOLDT	1	--	4	11	16
MENDOCINO	--	1	1	8	10
SONOMA	--	3	2	1	6
TOTAL	2	4	8	21	35
CENTRAL COAST:					
MONTEREY	--	--	1	--	1
SANTA CRUZ	--	1	--	1	2
TOTAL	--	1	1	1	3
NORTH INTERIOR:					
LASSEN	--	1	2	1	4
MODOC	--	--	--	1	1
SHASTA	--	--	2	6	8
SISKIYOU	--	--	--	4	4
TRINITY	--	--	--	3	3
TOTAL	--	1	4	15	20
SACRAMENTO:					
BUTTE	3	--	--	1	4
EL DORADO	--	--	2	1	3
GLENN	1	--	--	--	1
NEVADA	1	--	2	--	3
PLACER	--	--	--	2	2
PLUMAS	--	--	2	2	4
SIERRA	--	--	--	1	1
TEHAMA	--	--	1	2	3
YUBA	--	--	2	1	3
TOTAL	5	--	9	10	24
SAN JOAQUIN:					
AMADOR	--	--	--	2	2
FRESNO	--	--	--	1	1
MADERA	--	--	1	1	2
TULARE	--	--	--	2	2
TUOLUME	--	1	1	1	3
TOTAL	--	1	2	7	10
SOUTHERN :					
SAN BERNARDINO	1	--	--	--	1
TOTAL	1	--	--	--	1
ALL AREAS	8	7	24	54	93

^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, California, 1988

RESOURCE AREA AND COUNTY	MILL-SIZE CLASS ^a				ALL CLASSES
	D	C	B	A	
<u>THOUSAND BOARD FEET, LUMBER TALLY</u>					
NORTH COAST:					
DEL NORTE	4	--	90	260	354
HUMBOLDT	10	--	390	3,205	3,605
MENDOCINO	--	40	105	1,939	2,084
SONOMA	--	145	180	229	554
TOTAL	14	185	765	5,633	6,597
CENTRAL COAST:					
MONTEREY	--	--	85	--	85
SANTA CRUZ	--	50	--	120	170
TOTAL	--	50	85	120	255
NORTH INTERIOR:					
LASSEN	--	50	210	220	480
MODOC	--	--	--	125	125
SHASTA	--	--	175	1,570	1,745
SISKIYOU	--	--	--	691	691
TRINITY	--	--	--	578	578
TOTAL	--	50	385	3,184	3,619
SACRAMENTO:					
BUTTE	28	--	--	250	278
EL DORADO	--	--	200	500	700
GLENN	10	--	--	--	10
NEVADA	2	--	225	--	227
PLACER	--	--	--	375	375
PLUMAS	--	--	195	433	628
SIERRA	--	--	--	200	200
TEHAMA	--	--	115	620	735
YUBA	--	--	190	150	340
TOTAL	40	--	925	2,528	3,493
SAN JOAQUIN:					
AMADOR	--	--	--	460	460
FRESNO	--	--	--	200	200
MADERA	--	--	110	200	310
TULARE	--	--	--	425	425
TUOLUME	--	72	100	160	332
TOTAL	--	72	210	1,445	1,727
SOUTHERN:					
SAN BERNARDINO	25	--	--	--	25
TOTAL	25	--	--	--	25
ALL AREAS	79	357	2,370	12,910	15,716

^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, California, 1988

RESOURCE AREA AND SELECTED EQUIPMENT	MILL-SIZE CLASS ^a				ALL CLASSES
	D	C	B	A	
NORTH COAST:					
BARKER	--	4	7	20	31
CHIPPER	--	3	6	21	30
PLANER	2	3	5	19	29
BURNER	--	--	1	--	1
KILN	1	--	3	13	17
CENTRAL COAST:					
BARKER	--	1	1	--	2
CHIPPER	--	--	1	1	2
PLANER	--	1	1	1	3
BURNER	--	--	--	--	--
KILN	--	--	--	--	--
NORTH INTERIOR:					
BARKER	--	1	4	14	19
CHIPPER	--	1	4	14	19
PLANER	--	--	3	13	16
BURNER	--	--	--	--	--
KILN	--	--	2	13	15
SACRAMENTO:					
BARKER	--	--	9	10	19
CHIPPER	1	--	8	8	17
PLANER	3	--	8	10	21
BURNER	--	--	--	1	1
KILN	--	--	7	10	17
SAN JOAQUIN:					
BARKER	--	--	2	7	9
CHIPPER	--	--	2	7	9
PLANER	--	--	1	6	7
BURNER	--	--	--	--	--
KILN	--	1	1	6	8
SOUTHERN :					
BARKER	--	--	--	--	--
CHIPPER	--	--	--	--	--
PLANER	--	--	--	--	--
BURNER	--	--	--	--	--
KILN	--	--	--	--	--
ALL AREAS:					
BARKER	--	6	23	51	80
CHIPPER	1	4	21	51	77
PLANER	5	4	18	49	76
BURNER	--	--	1	1	2
KILN	1	1	13	42	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.

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

RESOURCE AREA AND COUNTY	BARKER	CHIPPER	PLANER	BURNER	KILN
NORTH COAST:					
DEL NORTE	1	2	2	1	2
HUMBOLDT	15	14	14	--	8
MENDOCINO	10	9	8	--	5
SONOMA	5	5	5	--	2
TOTAL	31	30	29	1	17
CENTRAL COAST:					
MONTEREY	1	1	1	--	--
SANTA CRUZ	1	1	2	--	--
TOTAL	2	2	3	--	--
NORTH INTERIOR:					
LASSEN	4	4	3	--	3
MODOC	--	--	1	--	1
SHASTA	8	8	6	--	6
SISKIYOU	4	4	3	--	3
TRINITY	3	3	3	--	2
TOTAL	19	19	16	--	15
SACRAMENTO:					
BUTTE	1	1	4	--	1
EL DORADO	3	2	3	1	3
GLENN	--	1	--	--	--
NEVADA	2	2	1	--	1
PLACER	2	2	2	--	2
PLUMAS	4	2	4	--	3
SIERRA	1	1	1	--	1
TEHAMA	3	3	3	--	3
YUBA	3	3	3	--	3
TOTAL	19	17	21	1	17
SAN JOAQUIN:					
AMADOR	2	2	1	--	1
FRESNO	1	1	1	--	1
MADERA	2	2	2	--	2
TULARE	2	2	2	--	2
TUOLUME	2	2	1	--	2
TOTAL	9	9	7	--	8
SOUTHERN :					
SAN BERNARDINO	--	--	--	--	--
TOTAL	--	--	--	--	--
ALL AREAS	80	77	76	2	57

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

RESOURCE AREA 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
NORTH COAST:																			
D	--	1	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
C	--	--	--	--	--	--	1	3	--	--	--	--	--	--	--	--	--	--	--
B	--	--	1	--	--	--	2	5	--	--	--	--	--	--	--	--	--	--	--
A	--	--	--	--	--	--	8	9	4	--	--	--	--	1	--	--	1	--	--
TOTAL	--	1	1	1	--	--	11	17	4	--	--	--	--	1	--	--	1	--	--
CENTRAL COAST:																			
D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
C	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--
B	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--
A	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--
TOTAL	--	--	--	--	--	--	1	2	--	--	--	--	--	--	--	--	--	--	--
NORTH INTERIOR:																			
D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
C	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B	--	1	--	--	--	--	--	3	--	--	--	--	--	--	--	--	1	--	--
A	--	--	--	--	--	--	3	10	2	--	--	1	--	--	1	--	1	--	--
TOTAL	--	2	--	--	--	--	3	13	2	--	--	1	--	--	1	--	2	--	--
SACRAMENTO:																			
D	--	2	1	--	1	--	--	1	--	--	--	--	--	--	--	--	--	--	--
C	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B	--	--	--	--	--	--	--	8	1	--	--	--	--	--	--	--	--	--	--
A	--	--	--	--	--	1	--	8	1	--	1	1	--	--	--	--	--	--	--
TOTAL	--	2	1	--	1	1	--	17	2	--	1	1	--	--	--	--	--	--	--
SAN JOAQUIN:																			
D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
C	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--
B	--	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	--	--
A	--	--	1	--	--	--	--	5	1	--	--	--	--	--	--	--	--	1	--
TOTAL	--	--	1	--	--	--	--	8	1	--	--	--	--	--	--	--	--	1	--
SOUTHERN:																			
D	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
C	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ALL AREAS:																			
D	--	3	1	2	1	--	--	1	--	--	--	--	--	--	--	--	--	--	--
C	--	1	--	--	--	--	1	5	--	--	--	--	--	--	--	--	--	--	--
B	--	1	1	--	--	--	3	18	1	--	--	--	--	--	--	--	1	--	--
A	--	--	1	--	--	1	11	33	8	--	1	2	--	1	1	--	2	1	--
TOTAL	--	5	3	2	1	1	15	57	9	--	1	2	--	1	1	--	3	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, California, 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
3-5	1	--	--	--	--	1
11-20	--	--	--	4	1	5
21 PLUS	1	--	--	--	--	1
TOTAL	3	--	--	4	1	8
C:						
3-5	--	1	--	1	--	2
6-10	--	--	2	--	--	2
21 PLUS	1	--	--	--	2	3
TOTAL	1	1	2	1	2	7
B:						
0-2	1	--	--	--	--	1
3-5	1	1	--	--	--	2
6-10	--	--	1	--	--	1
11-20	2	--	1	3	--	6
21 PLUS	--	2	4	3	5	14
TOTAL	4	3	6	6	5	24
A:						
0-2	1	--	--	--	--	1
6-10	--	--	2	--	--	2
11-20	--	--	1	5	--	6
21 PLUS	8	5	3	16	13	45
TOTAL	9	5	6	21	13	54
ALL CLASSES:						
0-2	3	--	--	--	--	3
3-5	2	2	--	1	--	5
6-10	--	--	5	--	--	5
11-20	2	--	2	12	1	17
21 PLUS	10	7	7	19	20	63
TOTAL	17	9	14	32	21	93

^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, California, 1988

RESOURCE AREA	HILL-SIZE CLASS ^a				ALL CLASSES
	D	C	B	A	
<u>DAYS PER YEAR</u>					
NORTH COAST	200	233	226	242	235
CENTRAL COAST	--	230	200	220	217
NORTH INTERIOR	--	150	245	259	251
SACRAMENTO	138		253	236	222
SAN JOAQUIN	--	235	240	233	235
SOUTHERN	60	--	--	--	60
ALL AREAS ^b	144	221	240	244	233
<u>SHIFTS PER DAY</u>					
NORTH COAST	1.00	1.00	1.50	1.80	1.57
CENTRAL COAST	--	1.00	1.00	1.00	1.00
NORTH INTERIOR	--	1.00	1.75	1.6	1.60
SACRAMENTO	1.20	--	1.56	1.90	1.63
SAN JOAQUIN	--	2.00	1.50	1.86	1.80
SOUTHERN	1.00	--	--	--	1.00
ALL AREAS ^b	1.13	1.14	1.54	1.74	1.59

^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, California, 1988

RESOURCE AREA AND MILL-SIZE CLASS ^a	ROUNDWOOD			OTHER WOOD		ALL WOOD
	SOUND LOGS	UTILITY LOGS	ALL ROUNDWOOD	PEELER CORES	CANTS	
THOUSAND BOARD FEET. SCRIBNER LOG RULE						
NORTH COAST:						
C AND D ^b	21,409	318	21,727	--	--	21,727
B	139,453	2,870	142,323	--	--	142,323
A	1,210,637	9,718	1,220,355	--	--	1,220,355
TOTAL	1,371,499	12,906	1,384,405	--	--	1,384,405
CENTRAL COAST:						
A, B, AND C ^b	31,455	325	31,780	--	--	31,780
TOTAL	31,455	325	31,780	--	--	31,780
NORTH INTERIOR:						
B AND C	111,216	420	111,636	--	--	111,636
A	795,827	26,297	822,124	--	--	822,124
TOTAL	907,043	26,717	933,760	--	--	933,760
SACRAMENTO:						
D	2,292	--	2,292	--	--	2,292
B	251,085	5,742	256,827	--	--	256,827
A	709,967	24,245	734,212	--	--	734,212
TOTAL	963,344	29,987	993,331	--	--	993,331
SAN JOAQUIN:						
B, C, AND D ^{b c}	52,489	35,754	88,243	--	--	88,243
A	371,240	27,950	399,190	--	--	399,190
TOTAL	423,729	63,704	487,433	--	--	487,433
SOUTHERN ^c	--	--	--	--	--	--
ALL AREAS:						
D	2,292	--	2,292	--	--	2,292
C	52,864	643	53,507	--	--	53,507
B	554,243	44,786	599,029	--	--	599,029
A	3,087,671	88,210	3,175,881	--	--	3,175,881
TOTAL	3,697,070	133,639	3,830,709	--	--	3,830,709

^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.

^c Southern combined with San Joaquin to avoid disclosure.

Table 18—Log consumption by sawmills, by resource area, mill-size class, and age group of timber, California, 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>			
NORTH COAST: C AND D ^b	769	20,958	21,727
B	61,753	80,570	142,323
A	420,696	799,659	1,220,355
TOTAL	483,218	901,187	1,384,405
CENTRAL COAST: A, B, AND C ^b	8,431	23,349	31,780
TOTAL	8,431	23,349	31,780
NORTH INTERIOR: B AND C	79,028	32,608	111,636
A	482,496	339,628	822,124
TOTAL	561,524	372,236	933,760
SACRAMENTO: D	577	1,715	2,292
B	164,934	91,893	256,827
A	313,085	421,127	734,212
TOTAL	478,596	514,735	993,331
SAN JOAQUIN: B, C, AND D ^{b c}	25,486	62,757	88,243
A	252,879	146,311	399,190
TOTAL	278,365	209,068	487,433
SOUTHERN ^c	--	--	--
ALL AREAS: D	577	1,715	2,292
C	769	20,958	21,727
B	331,201	267,828	599,029
A	1,477,587	1,730,074	3,207,661
TOTAL	1,810,134	2,020,575	3,830,709

^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.

^c Southern combined with San Joaquin to avoid disclosure.

Table 19—Log consumption by sawmills, by resource area, county of use, and age group of timber, California, 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>			
NORTH COAST:			
DEL NORTE	29,915	649	30,564
HUMBOLDT	359,008	466,974	825,982
HENDOCINO	91,406	374,004	465,410
SONOMA	2,889	59,560	62,449
TOTAL	483,218	901,187	1,384,405
CENTRAL COAST:			
MONTEREY AND SANTA CRUZ ^a	8,431	23,349	31,780
TOTAL	8,431	23,349	31,780
NORTH INTERIOR:			
LASSEN AND MODOC ^a	124,900	49,810	174,710
SHASTA	230,343	215,086	445,429
SISKIYOU	84,007	54,168	138,175
TRINITY	122,274	53,172	175,446
TOTAL	561,524	372,236	933,760
SACRAMENTO:			
BUTTE	16,835	66,549	83,384
EL DORADO AND PLACER'	89,143	180,320	269,463
GLENN AND YUBA ^a	89,039	30,959	119,998
NEVADA	71,665	20,769	92,434
PLUMAS AND SIERRA ^a	111,269	155,711	266,980
TEHAMA	100,645	60,427	161,072
TOTAL	478,596	514,735	993,331
SAM JOAQUIN:			
AMADOR AND TOLUENE ^a	119,045	138,254	257,299
FRESNO AND MADERA ^a	87,451	46,485	133,936
TULARE ^b	71,869	24,329	96,198
TOTAL	278,365	209,068	487,433
SOUTHERN:			
SAN BERNARDINO ^b	--	--	--
TOTAL	--	--	--
ALL AREAS	1,810,134	2,020,575	3,830,709

^a Combined to avoid disclosure.^b San Bernardino County combined with Tulare County to avoid disclosure.

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

RESOURCE AREA AND MILL-SIZE CLASS ^a	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								
NORTH COAST: C AND D ^b	--	100	--	--	--	70	21,557	21,727
E	--	5,280	--	--	26,049	69,358	41,636	142,323
A	22,077	179,458	7,328	--	832,809	71,415	107,268	1,220,355
TOTAL	22,077	184,838	7,328	--	858,858	140,843	170,461	1,384,405
CENTRAL COAST: A, E, AND C ^b	--	--	--	--	8,052	3,328	20,400	31,780
TOTAL	--	--	--	--	8,052	3,328	20,400	31,780
NORTH INTERIOR: E AND C ^b	287	93,097	--	--	--	11,118	7,134	111,636
A	7,286	455,843	10,525	--	191,706	89,967	66,797	822,124
TOTAL	7,573	548,940	10,525	--	191,706	101,085	73,931	933,760
SACRAMENTO: D	--	280	--	--	--	1,945	67	2,292
E	--	160,482	--	887	37,020	40,995	17,443	256,827
A	--	327,953	2,872	12,500	200,282	58,704	131,901	734,212
TOTAL	--	488,715	2,872	13,387	237,302	101,644	149,411	993,331
SAN JOAQUIN: E, C AND D ^b C	--	80,460	3,315	--	--	3,200	1,268	88,243
A	3,776	319,745	--	--	46,559	10,500	18,610	399,190
TOTAL	3,776	400,205	3,315	--	46,559	13,700	19,878	487,433
SOUTHERN ^c	--	--	--	--	--	--	--	--
ALL AREAS: D	--	280	--	--	--	1,945	67	2,292
C	--	100	--	--	8,052	3,398	41,957	53,507
B	287	339,319	3,315	887	63,069	124,671	67,481	599,029
A	33,139	1,282,999	20,725	12,500	1,271,356	230,586	324,576	3,175,881
TOTAL	33,426	1,622,698	24,040	13,387	1,342,477	360,600	434,081	3,830,709

^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.

^c Southern and San Joaquin combined to avoid disclosure.

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

RESOURCE AREA AND COUNTY OF USE	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								
NORTH COAST:								
DEL NORTE	--	4,118	--	--	25,248	911	287	30,564
HUMBOLDT	--	115,153	--	--	482,124	128,287	100,418	825,982
MENDOCINO	22,077	62,020	7,328	--	325,471	3,689	44,825	465,410
SONOMA	--	3,547	--	--	26,015	7,956	24,931	62,449
TOTAL	22,077	184,838	7,328	--	858,858	140,843	170,461	1,384,405
CENTRAL COAST: MONTEREY AND SANTA CRUZ ^a	--	--	--	--	8,052	3,328	20,400	31,780
TOTAL	--	--	--	--	8,052	3,328	20,400	31,780
NORTH INTERIOR:								
LASSEN AND MODOC ^a	--	141,397	--	--	16,054	9,683	7,576	174,710
SHASTA	6,323	179,158	6,525	--	156,919	52,312	44,192	445,429
SISKIYOU	1,250	97,847	1,250	--	--	25,340	12,488	138,175
TRINITY	--	130,538	2,750	--	18,433	13,750	9,675	175,446
TOTAL	7,573	548,940	10,525	--	191,706	101,085	73,931	933,760
SACRAMENTO:								
BUTTE	--	36,544	--	--	24,808	1,292	20,740	83,384
EL DORADO AND PLACER ^a	--	135,137	--	12,500	96,875	8,721	16,230	269,463
GLENN AND YUBA ^a	--	90,593	--	--	--	28,280	1,125	119,998
NEVADA	--	40,012	--	--	37,020	1,960	13,442	92,434
PLUMAS AND SIERRA ^a	--	160,068	--	887	62,863	21,865	21,297	266,980
TEHAMA	--	26,361	2,872	--	15,736	39,526	76,577	161,072
TOTAL	--	488,715	2,872	13,387	237,302	101,644	149,411	993,331
SAN JOAQUIN:								
AMADOR AND TULUMNE ^a	3,000	184,944	3,315	--	46,000	13,700	6,340	257,299
FRESNO AND MADERA ^a	--	124,807	--	--	--	--	9,129	133,936
TULARE ^b	776	90,454	--	--	559	--	4,409	96,198
TOTAL	3,776	400,205	3,315	--	46,559	13,700	19,878	487,433
SOUTHERN : SAN BERNARDINO ^b	--	--	--	--	--	--	--	--
TOTAL	--	--	--	--	--	--	--	--
ALL AREAS	33,426	1,622,698	24,040	13,387	1,342,477	360,600	434,081	3,830,709

^a Combined to avoid disclosure.^b San Bernardino County combined with Tulare County to avoid disclosure.

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

RESOURCE AREA AND MILL-SIZE CLASS ¹	NATIONAL FOREST				STATE				BUREAU OF LAND MANAGEMENT				OTHER WBLIC			
	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 HILLS																
NORTH COAST:																
D	1	--	--	1	2	--	--	2	--	--	--	2	--	--	--	--
C	4	--	--	--	4	--	--	--	4	--	--	--	4	--	--	--
B	6	2	--	--	8	--	--	--	8	--	--	--	8	--	--	--
A	9	6	6	--	18	3	--	--	18	3	--	--	21	--	--	--
TOTAL	20	8	6	1	32	3	--	--	32	3	--	--	35	--	--	--
CENTRAL COAST:																
C	1	--	--	--	1	--	--	--	1	--	--	--	1	--	--	--
B	1	--	--	--	1	--	--	--	1	--	--	--	1	--	--	--
A	1	--	--	--	1	--	--	--	1	--	--	--	1	--	--	--
TOTAL	3	--	--	--	3	--	--	--	3	--	--	--	3	--	--	--
NORTH INTERIOR:																
C	1	--	--	--	1	--	--	--	1	--	--	--	1	--	--	--
B	--	--	--	4	3	1	--	--	4	--	--	--	4	--	--	--
A	--	2	7	6	11	4	--	--	10	5	--	--	15	--	--	--
TOTAL	1	2	7	10	15	5	--	--	15	5	--	--	20	--	--	--
SACRAMENTO:																
D	3	1	1	--	5	--	--	--	5	--	--	--	5	--	--	--
B	1	--	3	5	9	--	--	--	9	--	--	--	8	1	--	--
A	--	3	6	1	10	--	--	--	9	1	--	--	9	1	--	--
TOTAL	4	4	10	6	24	--	--	--	23	1	--	--	22	2	--	--
SAN JOAQUIN:																
C	--	--	--	1	1	--	--	--	--	1	--	--	1	--	--	--
B	--	--	--	2	2	--	--	--	1	1	--	--	2	--	--	--
A	--	--	2	5	5	2	--	--	7	--	--	--	7	--	--	--
TOTAL	--	--	2	8	8	2	--	--	8	2	--	--	10	--	--	--
SOUTHERN :																
D	--	--	--	1	1	--	--	--	1	--	--	--	1	--	--	--
TOTAL	--	--	--	1	1	--	--	--	1	--	--	--	1	--	--	--
ALL AREAS:																
D	4	1	1	2	8	--	--	--	8	--	--	--	8	--	--	--
C	6	--	--	1	7	--	--	--	6	1	--	--	7	--	--	--
B	8	2	3	11	23	1	--	--	23	1	--	--	23	1	--	--
A	10	11	21	12	45	9	--	--	45	9	--	--	53	1	--	--
TOTAL	28	14	25	26	83	10	--	--	82	11	--	--	91	2	--	--

See footnote at end of table.

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

RESOURCE AREA AND MILL-SIZE CLASS ^a	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											
NORTH COAST:												
D	2	--	--	--	--	1	1	--	1	--	--	1
C	4	--	--	--	4	--	--	--	--	--	--	4
B	5	2	--	1	--	3	1	4	2	3	--	3
A	P	3	2	14	16	4	1	--	13	6	2	--
TOTAL	13	5	2	15	20	8	3	4	16	9	2	8
CENTRAL COAST:												
C	1	--	--	--	1	--	--	--	--	--	--	1
B	--	--	--	1	--	1	--	--	--	1	--	--
A	--	1	--	--	--	1	--	--	--	--	--	1
TOTAL	1	1	--	1	1	2	--	--	--	1	--	2
NORTH INTERIOR:												
C	1	--	--	--	--	--	--	1	1	--	--	--
B	4	--	--	--	1	3	--	--	1	3	--	--
A	7	5	2	1	7	5	3	--	1	13	1	--
TOTAL	12	5	2	1	8	8	3	1	3	16	1	--
SACRAMENTO:												
D	5	--	--	--	--	1	1	3	3	1	--	1
B	7	1	1	--	5	2	1	1	5	4	--	--
A	3	2	5	--	4	4	2	--	6	3	--	1
TOTAL	15	3	6	--	9	7	4	4	14	8	--	2
SAN JOAQUIN:												
C	1	--	--	--	--	1	--	--	1	--	--	--
B	2	--	--	--	2	--	--	--	1	1	--	--
A	4	2	1	--	6	--	1	--	1	6	--	--
TOTAL	7	2	1	--	8	1	1	--	3	7	--	--
SOUTHERN :												
D	1	--	--	--	1	--	--	--	--	1	--	--
TOTAL	1	--	--	--	1	--	--	--	--	1	--	--
ALL AREAS:												
D	8	--	--	--	1	2	2	3	4	2	--	2
C	7	--	--	--	5	1	--	1	2	--	--	5
B	18	3	1	2	8	9	2	5	9	12	--	3
A	16	13	10	15	33	14	7	--	21	28	3	2
TOTAL	49	16	11	17	47	26	11	9	36	42	3	12

^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, California, 1988

RESOURCE AREA AND MILL-SIZE CLASS ^a	DOUGLAS-FIR	REDWOOD	TRUE FIRS	SUGAR PINE	PONDEROSA PINE	LOOSEPOLE PINE	INCENSE- CEDAR	OTHER SOFTWOODS	HARDWOODS	ALL SPECIES
THOUSAND BOARD FEET, SCRIBNER LOG RULE										
NORTH COAST: C AND D ^b	6,980	14,419	318	--	--	--	--	--	10	21,727
8	10,493	124,819	--	--	389	--	2,191	4,431	--	142,323
A	557,415	580,670	46,617	8,621	23,876	--	1,772	1,188	196	1,220,355
TOTAL	574,888	719,908	46,935	8,621	24,265	--	3,963	5,619	206	1,384,405
CENTRAL COAST: A, B, AND C ^b	2,748	29,032	--	--	--	--	--	--	--	31,780
TOTAL	2,748	29,032	--	--	--	--	--	--	--	31,780
NORTH INTERIOR: 8 AND C ^b	3,500	--	28,227	10,674	68,469	766	--	--	--	111,636
A	270,673	--	150,729	70,947	250,978	880	71,197	6,720	--	822,124
TOTAL	274,173	--	178,956	81,621	319,447	1,646	71,197	6,720	--	933,760
SACRAMENTO: D	318	--	600	20	358	--	554	60	382	2,292
B	28,687	--	94,843	27,429	80,845	--	20,423	4,600	--	256,827
A	116,080	--	277,624	92,282	217,900	13,600	10,763	5,963	--	734,212
TOTAL	145,085	--	373,067	119,731	299,103	13,600	31,740	10,623	382	993,331
SAN JOAQUIN: 8, C, AND D ^{b c}	1,280	--	35,211	12,950	38,772	--	30	--	--	88,243
A	8,510	--	144,833	48,370	152,796	388	44,293	--	--	399,190
TOTAL	9,790	--	180,044	61,320	191,568	388	44,323	--	--	487,433
SOUTHERN ^c										
ALL AREAS: D	318	--	600	20	358	--	554	60	382	2,292
C	9,728	43,451	318	--	--	--	--	--	10	53,507
B	43,960	124,819	158,281	51,053	188,475	766	22,644	--	--	599,029
A	952,678	580,670	619,803	220,220	645,550	14,868	128,025	13,871	196	3,175,881
TOTAL	1,006,684	748,940	779,002	271,293	834,383	15,634	151,223	22,962	588	3,830,709

^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.

^c Southern combined with San Joaquin to avoid disclosure.

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

RESOURCE AREA AND COUNTY OF USE	DOUGLAS-FIR	REDWOOD	TRUE FIRS	SUGAR PINE	PONDEROSA PINE	LODGEPOLE PINE	INCENSE- CEDAR	OTHER SOFTWOODS	HARDWOODS	ALL SPECIES
THOUSAND BOARD FEET. SCRIBNER LOG RULE										
NORTH COAST:										
DEL NORTE	574	29,416	--	--	--	--	--	574	--	30,564
HUMBOLDT	350,819	427,579	30,413	4,733	5,409	--	2,191	4,632	206	825,982
MENDOCINO	205,202	221,440	13,839	3,888	18,856	--	1,772	413	--	465,410
SONOMA	18,293	41,473	2,683	--	--	--	--	--	--	62,449
TOTAL	574,888	719,908	46,935	8,621	24,265	--	3,963	5,619	206	1,384,405
CENTRAL COAST:										
HONTEREY AND SANTA CRUZ ^a	2,748	29,032	--	--	--	--	--	--	--	31,780
TOTAL	2,748	29,032	--	--	--	--	--	--	--	31,780
NORTH INTERIOR:										
LASSEN AND MOOOC ^a	5,093	--	59,241	7,462	102,914	--	--	--	--	174,710
SHASTA	111,117	--	107,456	36,294	163,469	1,646	25,447	--	--	445,429
SIKIYOU	46,984	--	--	20,217	25,224	--	45,750	--	--	138,175
TRINITY	110,979	--	12,259	17,648	27,840	--	--	6,720	--	175,446
TOTAL	274,173	--	178,956	81,621	319,447	1,646	71,197	6,720	--	933,760
SACRAMENTO:										
BUTTE	22,345	--	27,288	13,231	15,729	--	4,409	--	382	83,384
EL DORADO AND PLACER ^a	35,989	--	113,758	33,934	73,226	--	7,956	4,600	--	269,463
GLENN AND YUBA ^a	21,163	--	52,100	9,050	23,965	13,600	120	--	--	119,998
NEVADA	7,340	--	47,066	12,702	24,066	--	1,200	60	--	92,434
PLUMAS AND SIERRA ^a	16,262	--	125,245	14,763	87,096	--	17,651	5,963	--	266,980
TEHAMA	41,986	--	7,610	36,051	1,021	--	404	--	--	161,072
TOTAL	145,085	--	373,067	119,731	299,103	13,600	31,740	10,623	382	993,331
SAN JOAQUIN:										
AMADOR AND TOLUMLNE ^a	9,790	--	50,449	37,718	123,822	--	35,520	--	--	257,299
FRESNO AND MADERA ^a	--	--	84,437	18,688	30,811	--	--	--	--	133,936
TULARE ^b	--	--	45,158	4,914	36,935	388	8,803	--	--	96,198
TOTAL	9,790	--	180,044	61,320	191,568	388	44,323	--	--	487,433
SOUTHERN:										
SAN BERNARDINO ^b	--	--	--	--	--	--	--	--	--	--
TOTAL	--	--	--	--	--	--	--	--	--	--
ALL AREAS	1,006,684	748,940	779,002	271,293	834,383	15,634	151,223	22,962	588	3,830,709

^a Combined to avoid disclosure.^b San Bernardino County combined with Tulare County to avoid disclosure.

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

RESOURCE AREA AND MILL-SIZE CLASS ^a	WOOD RESIDUE			BARK RESIDUE			ALL RESIDUE		
	USED ^b	UNUSED	TOTAL	USED ^b	UNUSED	TOTAL	USED ^b	UNUSED	TOTAL
TOWS. DRY EIGHT									
NORTH COAST: C AND D ^c	34,777	61	34,838	10,260	..	10,260	45,037	61	45,098
B	247,484	87	247,571	70,115	4,580	74,695	317,599	4,667	322,266
A	1,909,627	22,066	1,931,693	531,615	22,700	554,315	2,441,242	44,766	2,486,008
TOTAL	2,191,888	22,214	2,214,102	611,990	27,280	639,270	2,803,878	49,494	2,853,372
CENTRAL COAST: A, B, AND C ^c	45,934	..	45,934	13,886	..	13,886	59,820	..	59,820
TOTAL	45,934	..	45,934	13,886	..	13,886	59,820	..	59,820
NORTH INTERIOR: B AND C ^c	119,038	..	119,038	36,292	..	36,292	155,330	..	155,330
A	1,131,790	..	1,131,790	320,360	..	320,360	1,452,150	..	1,452,150
TOTAL	1,250,828	..	1,250,828	356,652	..	356,652	1,607,480	..	1,607,480
SACRAMENTO: D	2,000	..	2,000	682	..	682	2,682	..	2,682
B	317,259	12,553	329,812	97,772	..	97,772	415,031	12,553	427,584
A	926,509	..	926,509	263,245	..	263,245	1,189,754	..	1,189,754
TOTAL	1,245,768	12,553	1,258,321	361,699	..	361,699	1,607,467	12,553	1,620,020
SAN JOAQUIN: B, C AND D ^{c d}	88,824	..	88,824	29,548	..	29,548	118,372	..	118,372
A	512,489	..	512,489	148,636	..	148,636	661,125	..	661,125
TOTAL	601,313	..	601,313	178,184	..	178,184	779,497	..	779,497
SOUTHERN ^d	..	..	..	..	..	..	..	..	..
ALL AREAS: D	2,000	..	2,000	682	..	682	2,682	..	2,682
C	80,711	61	80,772	24,146	..	24,146	104,857	61	104,918
B	772,605	12,640	785,245	233,727	4,580	238,307	1,006,332	17,220	1,023,552
A	4,480,415	22,066	4,502,481	1,263,856	22,700	1,286,556	5,744,271	44,766	5,789,037
TOTAL	5,335,731	34,767	5,370,498	1,522,411	27,280	1,549,691	6,858,142	62,047	6,920,189

^a Class D mills = less than 40,000 board-foot capacity per 8-hour shift; C = 40,000-79,999; B = 80,000-119,959; A = 120,000 or more.

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

^c Combined to avoid disclosure.

^d Southern combined with San Joaquin to avoid disclosure.

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

RESOURCE AREA AND MILL-SIZE CLASS ^a	COARSE ^c						
	USED ^b					UNUSED	TOTAL
	PULP	BOARD	FUEL	MISCELLANEOUS	TOTAL		
TONS, DRY WEIGHT							
NORTH COAST: C AND D ^d	3,980	8,799	5,546	4,415	22,740	61	22,801
B	114,002	21,328	33,524	5,320	174,174	--	174,174
A	538,334	212,995	411,212	1,377	1,163,918	19,910	1,183,828
TOTAL	656,316	243,122	450,282	11,112	1,360,832	19,971	1,380,803
CENTRAL COAST: A, B, AND C ^d	--	--	10,399	21,981	32,380	--	32,380
TOTAL	--	--	10,399	21,981	32,380	--	32,380
NORTH INTSRIOR: B AND C	18,386	--	49,857	1,283	69,526	--	69,526
A	410,807	--	208,974	6,934	626,715	--	626,715
TOTAL	429,193	--	258,831	8,217	696,241	--	696,241
SACRAMENTO: D	--	--	1,048	316	1,364	--	1,364
B	65,910	--	125,430	--	191,340	--	191,340
A	245,418	--	245,643	15,256	506,317	--	506,317
TOTAL	311,328	--	372,121	15,572	699,021	--	699,021
SAN JOAQUIN: B, C, AND D ^{d e}	56,060	--	--	549	56,609	--	56,609
A	125,869	--	166,196	--	292,065	--	292,065
TOTAL	181,929	--	166,196	549	348,674	--	348,674
SOUTHERN ^e	--	--	--	--	--	--	--
ALL AREAS: D	--	--	1,048	316	1,364	--	1,364
C	3,980	8,799	15,945	26,396	55,120	61	55,181
B	254,358	21,328	208,811	7,152	491,649	--	491,649
A	1,320,428	212,995	1,032,025	23,567	2,589,015	19,910	2,608,925
TOTAL	1,578,766	243,122	1,257,829	57,431	3,137,148	19,971	3,157,119

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, California, 1988 (continued)

RESOURCE AREA AND MILL-SIZE CLASS ^a	SHAVINGS						
	USED ^b					UNUSED	TOTAL
	PULP	BOARD	FUEL	MISCELLANEOUS	TOTAL		
TONS, DRY WEIGHT							
NORTH COAST: C AND D ^d	--	--	--	3,578	3,578	--	3,578
B	--	1,299	10,122	4,515	15,936	--	15,936
A	19,347	114,712	101,604	30,307	265,970	712	266,682
TOTAL	19,347	116,011	111,726	38,400	285,484	712	286,196
CENTRAL COAST: A, B, AND C ^d	--	--	--	2,874	2,874	--	2,874
TOTAL	--	--	--	2,874	2,874	--	2,874
NORTH INTSRIOR: B AND C	1,908	--	11,694	382	13,984	--	13,984
A	--	53,904	143,839	255	197,998	--	197,998
TOTAL	1,908	53,904	155,533	637	211,982	--	211,982
SACRAMENTO: D	--	--	44	2	46	--	46
B	--	8,996	32,908	2,888	44,792	--	44,792
A	11,759	35,821	115,914	--	163,494	--	163,494
TOTAL	11,759	44,817	148,866	2,890	208,332	--	208,332
SAN JOAQUIN: B, C AND D ^{d e}	--	--	--	3,290	3,290	--	3,290
A	--	33,988	28,174	16,439	78,601	--	78,601
TOTAL	--	33,988	28,174	19,729	81,891	--	81,891
SOUTHERN ^e	--	--	--	--	--	--	--
ALL AREAS: D	--	--	44	2	46	--	46
C	--	--	--	6,452	6,452	--	6,452
B	1,908	10,295	54,724	11,075	78,002	--	78,002
A	31,106	238,425	389,531	47,001	706,063	712	706,775
TOTAL	33,014	248,720	444,299	64,530	790,563	712	791,275

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, California, 1988 (continued)

RESOURCE AREA AND MILL-SIZE CLASS ^a	SAUDUST						
	USED ^b					UNUSED	TOTAL
	PULP	BOARD	FUEL	MISCELLANEOUS	TOTAL		
TONS, DRY WEIGHT							
NORTH COAST:							
C AND D	--	--	1,755	6,704	8,459	--	8,459
B	--	7,212	48,470	1,692	57,374	87	57,461
A	21,708	185,069	233,532	39,430	479,739	1,444	481,183
TOTAL	21,708	192,281	283,757	47,826	545,572	1,531	547,103
CENTRAL COAST:							
A, B, AND C ^d	--	--	187	10,493	10,680	--	10,680
TOTAL	--	--	187	10,493	10,680	--	10,680
NORTH INTERIOR:							
B AND C	5,297	--	29,575	656	35,528	--	35,528
A	--	15,872	289,853	1,352	307,077	--	307,077
TOTAL	5,297	15,872	319,428	2,008	342,605	--	342,605
SACRAMENTO:							
D	--	--	472	118	590	--	590
B	--	--	75,934	5,193	81,127	12,553	93,680
A	2,478	--	254,220	--	256,698	--	256,698
TOTAL	2,478	--	330,626	5,311	338,415	12,553	350,968
SAN JOAQUIN:							
B, C, AND D ^{d e}	--	10,951	11,088	6,886	28,925	--	28,925
A	--	--	123,254	18,569	141,823	--	141,823
TOTAL	--	10,951	134,342	25,455	170,748	--	170,748
SOUTHERN ^e	--	--	--	--	--	--	--
ALL AREAS:							
D	--	--	472	118	590	--	590
C	--	--	1,942	17,197	19,139	--	19,139
B	5,297	18,163	165,067	14,427	202,954	12,640	215,594
A	24,186	200,941	900,859	59,351	1,185,337	1,444	1,186,781
TOTAL	29,483	219,104	1,068,340	91,093	1,408,020	14,084	1,422,104

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, California, 1988 (continued)

ALL TYPES OF WOOD RESIDUE							
RESOURCE AREA AND MILL-SIZE CLASS ^a	USED ^b					UNUSED	TOTAL
	PULP	BOARD	FUEL	MISCELLANEOUS	TOTAL		
TONS, DRY WEIGHT							
NORTH COAST: C AND D ^d	3,980	8,799	7,301	14,697	34,777	61	34,838
B	114,002	29,839	92,116	11,527	247,484	87	247,571
A	579,389	512,776	746,348	71,114	1,909,627	22,066	1,931,693
TOTAL	697,371	551,414	845,765	97,338	2,191,888	22,214	2,214,102
CENTRAL COAST: A, B, AND C ^d	--	--	10,586	35,348	45,934	--	45,934
TOTAL	--	--	10,586	35,348	45,934	--	45,934
NORTH INTERIOR: B AND C ^d	25,591	--	91,126	2,321	119,038	--	119,038
A	410,807	69,776	642,666	8,541	1,131,790	--	1,131,790
TOTAL	436,398	69,776	733,792	10,862	1,250,828	--	1,250,828
SACRAMENTO: D	--	--	1,564	436	2,000	--	2,000
B	65,910	8,996	234,272	8,081	317,259	12,553	329,812
A	259,655	35,821	615,777	15,256	926,509	--	926,509
TOTAL	325,565	44,817	851,613	23,773	1,245,768	12,553	1,258,321
SAN JOAQUIN: ^e B AND C ^d	56,060	10,951	11,088	10,725	88,824	--	88,824
A	125,869	33,988	317,624	35,008	512,489	--	512,489
TOTAL	181,929	44,939	328,712	45,733	601,313	--	601,313
SOUTHERN ^e	--	--	--	--	--	--	--
ALL AREAS: D	--	--	1,564	436	2,000	--	2,000
C	3,980	8,799	17,887	50,045	80,711	61	80,772
B	261,563	49,786	428,602	32,654	772,605	12,640	785,245
A	1,375,720	652,361	2,322,415	129,919	4,480,415	22,066	4,502,481
TOTAL	1,641,263	710,946	2,770,448	213,054	5,335,731	34,767	5,370,498

^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 Includes stabs, edgings, trim, and spur ends.

^d Combined to avoid disclosure.

^e Southern combined with San Joaquin to avoid disclosure.

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

RESOURCE AREA AND MILL-SIZE CLASS ^a	USED ^b					UNUSED	ALL BARK
	PULP	BOARD	FUEL	MISCELLANEOUS	TOTAL		
TONS, DRY WEIGHT							
NORTH COAST: C AND D ^c	--	--	4,387	5,873	10,260	--	10,260
B	--	--	57,386	12,729	70,115	4,580	74,695
A	--	--	480,558	51,057	531,615	22,700	554,315
TOTAL	--	--	542,331	69,659	611,990	27,280	639,270
CENTRAL COAST: A, B, AND C ^c	--	--	--	13,886	13,886	--	13,886
TOTAL	--	--	--	13,886	13,886	--	13,886
NORTH INTERIOR: B AND C ^c	2,062	--	34,230	--	36,292	--	36,292
A	--	--	315,243	5,117	320,360	--	320,360
TOTAL	2,062	--	349,473	5,117	356,652	--	356,652
SACRAMENTO: D	--	--	484	198	682	--	682
B	--	--	83,991	13,781	97,772	--	97,772
A	2,531	--	226,519	34,195	263,245	--	263,245
TOTAL	2,531	--	310,994	48,174	361,699	--	361,699
SAN JOAQUIN: B, C, AND D ^{c d}	--	--	22,443	7,105	29,548	--	29,548
A	--	--	37,738	110,898	148,636	--	148,636
TOTAL	--	--	60,181	118,003	178,184	--	178,184
SOUTHERN ^d							
ALL AREAS: D	--	--	484	198	682	--	682
C	--	--	4,387	19,759	24,146	--	24,146
B	2,062	--	198,050	33,615	233,727	4,580	238,307
A	2,531	--	1,060,058	201,267	1,263,856	22,700	1,286,556
TOTAL	4,593	--	1,262,979	254,839	1,522,411	27,280	1,549,691

^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.

^d Southern and San Joaquin combined to avoid disclosure.

Table 28—Production and disposition of wood and bark residue by sawmills, by resource area and county, California, 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									
NORTH COAST:									
DEL NORTE	39,398	87	39,485	7,514	4,580	12,094	46,912	4,667	51,579
HUMBOLDT	1,256,019	61	1,256,080	367,334	..	367,334	1,623,353	61	1,623,414
MENDOCINO	789,236	22,066	811,302	207,344	21,953	229,297	996,580	44,019	1,040,599
SONOMA	107,235	..	107,235	29,798	747	30,545	137,033	747	137,780
TOTAL	2,191,888	22,214	2,214,102	611,990	27,280	639,270	2,803,878	49,494	2,853,372
CENTRAL COAST:									
CONTEREY AND SANTA CRUZ ^b	45,934	..	45,934	13,886	..	13,886	59,820	..	59,820
TOTAL	45,934	..	45,934	13,886	..	13,886	59,820	..	59,820
NORTH INTERIOR:									
LASSEN AND MODOC ^b	206,727	..	206,727	59,945	..	59,945	266,672	..	266,672
SHASTA	604,255	..	604,255	171,955	..	171,955	776,210	..	776,210
SISKIYOU	187,342	..	187,342	54,165	..	54,165	241,507	..	241,507
TRINITY	252,504	..	252,504	70,587	..	70,587	323,091	..	323,091
TOTAL	1,250,828	..	1,250,828	356,652	..	356,652	1,607,480	..	1,607,480
SACRAMENTO:									
BUTTE	113,067	..	113,067	31,683	..	31,683	144,750	..	144,750
EL DORADO AND PLACER ^b	348,323	..	348,323	98,788	..	98,788	447,111	..	447,111
GLENN AND YUBA	140,591	12,553	153,144	44,802	..	44,802	185,393	12,553	197,946
NEVADA	98,303	..	98,303	30,657	..	30,657	128,960	..	128,960
PLUMAS AND SIERRA ^b	346,971	..	346,971	100,038	..	100,038	447,009	..	447,009
TEHAMA	198,513	..	198,513	55,731	..	55,731	254,244	..	254,244
TOTAL	1,245,768	12,553	1,258,321	361,699	..	361,699	1,607,467	12,553	1,620,020
SAN JOAQUIN:									
AMADOR AND TULUMNE ^b	286,389	..	286,389	86,216	..	86,216	372,605	..	372,605
FRESNO AND MADERA ^b	177,205	..	177,205	53,353	..	53,353	230,558	..	230,558
TULARE ^c	137,719	..	137,719	38,615	..	38,615	176,334	..	176,334
TOTAL	601,313	..	601,313	178,184	..	178,184	779,497	..	779,497
SOUTHERN:									
SAN BERNARDINO ^c	..	..	..	..	..	..	..	..	..
TOTAL	..	..	..	..	..	..	..	..	..
ALL AREAS	5,335,731	34,767	5,370,498	1,522,411	27,280	1,549,691	6,858,142	62,047	6,920,189

^a Residues are not necessarily used in the area or county in which they are produced.^b Combined to avoid disclosure.^c San Bernardino County combined with Tulare County to avoid disclosure.

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

RESOURCE AREA AND COUNTY	COARSE ^a						
	USED ^b					UNUSED	TOTAL
	PULP	BOARD	FUEL	MISCELLANEOUS	TOTAL		
TONS, DRY WEIGHT							
NORTH COAST:							
DEL NORTE	26,936	--	1,422	107	28,465	--	28,465
HUMBOLDT	335,619	81,345	376,441	400	793,805	61	793,866
MENDOCINO	258,830	139,515	72,419	--	470,764	19,910	490,674
SONOMA	34,931	22,262	--	10,605	67,798	--	67,798
TOTAL	656,316	243,122	450,282	11,112	1,360,832	19,971	1,380,803
CENTRAL COAST:							
MONTEREY AND SANTA CRUZ'	--	--	10,399	21,981	32,380	--	32,380
TOTAL	--	--	10,399	21,981	32,380	--	32,380
NORTH INTERIOR:							
LASSEN AND MODOC'	6,416	--	107,142	1,283	114,841	--	114,841
SHASTA	237,729	--	88,923	6,934	333,586	--	333,586
SISKIYOU	107,148	--	5,436	--	112,584	--	112,584
TRINITY	77,900	--	57,330	--	135,230	--	135,230
TOTAL	429,193	--	258,831	8,217	696,241	--	696,241
SACRAMENTO:							
BUTTE	36,613	--	9,526	15,327	61,466	--	61,466
EL DORADO AND PLACER'	66,236	--	124,430	--	190,666	--	190,666
GLENN AND YUBA ^c	60,606	--	25,242	--	85,848	--	85,848
NEVADA	51,714	--	6,954	245	58,913	--	58,913
PLUMAS AND SIERRA ^c	4,848	--	190,438	--	195,286	--	195,286
TEHAMA	91,311	--	15,531	--	106,842	--	106,842
TOTAL	311,328	--	372,121	15,572	699,021	--	699,021
SAN JOAQUIN:							
AMADOR AND TUOLUMNE ^c	168,317	--	2,560	--	170,877	--	170,877
FRESNO AND MADERA ^c	13,612	--	88,601	--	102,213	--	102,213
TULARE ^d	--	--	75,035	549	75,584	--	75,584
TOTAL	181,929	--	166,196	549	348,674	--	348,674
SOUTHERN : SAN BERNARDINO ^d	--	--	--	--	--	--	--
TOTAL	--	--	--	--	--	--	--
ALL AREAS	1,578,766	243,122	1,257,829	57,431	3,137,148	19,971	3,157,119

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, California, 1988 (continued)

RESOURCE AREA AND COUNTY	SHAVINGS						
	USED ^b					UNUSED	TOTAL
	PULP	BOARD	FUEL	MISCELLANEOUS	TOTAL		
TONS, DRY WEIGHT							
NORTH COAST:							
DEL NORTE	--	--	1,849	--	1,849	--	1,849
HUMBOLDT	1,595	49,981	84,908	11,589	148,073	--	148,073
MENDOCINO	17,752	65,629	23,810	14,160	121,351	712	122,063
SONOMA	--	401	1,159	12,651	14,211	--	14,211
TOTAL	19,347	116,011	111,726	38,400	285,484	712	286,196
CENTRAL COAST:							
MONTEREY AND SANTA CRUZ	--	--	--	2,874	2,874	--	2,874
TOTAL	--	--	--	2,874	2,874	--	2,874
NORTH INTERIOR:							
LASSEN AND MODOC ^c	1,908	--	30,913	382	33,203	--	33,203
SHASTA	--	25,059	79,114	255	104,428	--	104,428
SISKIYOU	--	19,008	7,170	--	26,178	--	26,178
TRINITY	--	9,837	38,336	--	48,173	--	48,173
TOTAL	1,908	53,904	155,533	637	211,982	--	211,982
SACRAMENTO:							
BUTTE	--	19,927	1,093	2	21,022	--	21,022
EL DORADO AND PLACER	--	15,894	42,879	2,888	61,661	--	61,661
GLENN AND YUBA ^c	10,353	--	13,093	--	23,446	--	23,446
NEVADA	--	8,996	473	--	9,469	--	9,469
PLUMAS AND SIERRA ^c	1,406	--	54,179	--	55,585	--	55,585
TEHAMA	--	--	37,149	--	37,149	--	37,149
TOTAL	11,759	44,817	148,866	2,890	208,332	--	208,332
SAN JOAQUIN:							
AMADOR AND TUOLUMNE ^c	--	33,988	--	--	33,988	--	33,988
FRESNO AND MADERA ^c	--	--	12,867	9,894	22,761	--	22,761
TULARE ^d	--	--	15,307	9,835	25,142	--	25,142
TOTAL	--	33,988	28,174	19,729	81,891	--	81,891
SOUTHERN:							
SAN BERNARDINO ^d	--	--	--	--	--	--	--
TOTAL	--	--	--	--	--	--	--
ALL AREAS	33,014	248,720	444,299	64,530	790,563	712	791,275

See footnotes at end of page.

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

RESOURCE AREA AND COUNTY	SAWUST						
	USED ^b					UNUSED	TOTAL
	PULP	BOARD	FUEL	MISCELLANEOUS	TOTAL		
TONS, DRY WEIGHT							
NORTH COAST:							
DEL NORTE	--	--	9,050	34	9,084	87	9,171
HUMBOLDT	21,708	87,051	205,361	21	314,141	--	314,141
MENDOCINO	--	100,348	69,346	27,427	197,121	1,444	198,565
SONOMA	--	4,882	--	20,344	25,226	--	25,226
TOTAL	21,708	192,281	283,757	47,826	545,572	1,531	547,103
CENTRAL COAST:							
MONTEREY AND SANTA CRUZ ^e	--	--	187	10,493	10,680	--	10,680
TOTAL	--	--	187	10,493	10,680	--	10,680
NORTH INTERIOR:							
LASSEN AND MODOC ^c	3,278	--	54,749	656	58,683	--	58,683
SHASTA	2,019	--	163,547	675	166,241	--	166,241
SIKSIYOU	--	15,872	32,031	677	48,580	--	48,580
TRINITY	--	--	69,101	--	69,101	--	69,101
TOTAL	5,297	15,872	319,428	2,008	342,605	--	342,605
SACRAMENTO:							
BUTTE	--	--	30,564	15	30,579	--	30,579
EL DORADO AND PLACER ^e	--	--	90,803	5,193	95,996	--	95,996
GLENN AND YUBA ^c	--	--	31,297	--	31,297	12,553	43,850
NEVADA	--	--	29,818	103	29,921	--	29,921
PLUMAS AND SIERRA ^c	2,478	--	93,622	--	96,100	--	96,100
TEHAMA	--	--	54,522	--	54,522	--	54,522
TOTAL	2,478	--	330,626	5,311	338,415	12,553	350,968
SAN JOAQUIN:							
AMADOR AND TUOLUMNE ^c	--	10,951	68,143	2,430	81,524	--	81,524
FRESNO AND MADERA ^c	--	--	45,623	6,608	52,231	--	52,231
TULARE ^d	--	--	20,576	16,417	36,993	--	36,993
TOTAL	--	10,951	134,342	25,455	170,748	--	170,748
SOUTHERN:							
SAN BERNARDINO ^d	--	--	--	--	--	--	--
TOTAL	--	--	--	--	--	--	--
ALL AREAS	29,483	219,104	1,068,340	91,093	1,408,020	14,084	1,422,104

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, California, 1988 (continued)

ALL TYPES OF WOOD RESIDUE							
RESOURCE AREA AND COUNTY	USED ^b					UNUSED	TOTAL
	PULP	BOARD	FUEL	MISCELLANEOUS	TOTAL		
	TONS, DRY WEIGHT						
NORTH COAST:							
DEL NORTE	26,936	--	12,321	141	39,398	87	39,485
HUMBOLDT	358,922	218,377	666,710	12,010	1,256,019	61	1,256,080
MENDOCINO	276,582	305,492	165,575	41,587	789,236	22,066	811,302
SONOMA	34,931	27,545	1,159	43,600	107,235	--	107,235
TOTAL	697,371	551,414	845,765	97,338	2,191,888	22,214	2,214,102
CENTRAL COAST:							
MONTEREY AND SANTA CRUZ ^c	--	--	10,586	35,348	45,934	--	45,934
TOTAL	--	--	10,586	35,348	45,934	--	45,934
NORTH INTERIOR:							
LASSEN AND MODOC ^c	11,602	--	192,804	2,321	206,727	--	206,727
SHASTA	239,748	25,059	331,584	7,864	604,255	--	604,255
SISKIYOU	107,148	34,880	44,637	677	187,342	--	187,342
TRINITY	77,900	9,837	164,767	--	252,504	--	252,504
TOTAL	436,398	69,776	733,792	10,862	1,250,828	--	1,250,828
SACRAMENTO:							
BUTTE	36,613	19,927	41,183	15,344	113,067	--	113,067
EL DORADO AND PLACER ^c	66,236	15,894	258,112	8,081	348,323	--	348,323
GLENN AND YUBA ^c	70,959	--	69,632	--	140,591	12,553	153,144
NEVADA	51,714	8,996	37,245	348	98,303	--	98,303
PLUMAS AND SIERRA ^c	8,732	--	338,239	--	346,971	--	346,971
TEHAMA	91,311	--	107,202	--	198,513	--	198,513
TOTAL	325,565	44,817	851,613	23,773	1,245,768	12,553	1,258,321
SAN JOAQUIN:							
AMADOR AND TUOLUMNE ^c	168,317	44,939	70,703	2,430	286,389	--	286,389
FRESNO AND MADERA ^c	13,612	--	147,091	16,502	177,205	--	177,205
TULARE ^d	--	--	110,918	26,801	137,719	--	137,719
TOTAL	181,929	44,939	328,712	45,733	601,313	--	601,313
SOUTHERN:							
SAN BERNARDINO ^d	--	--	--	--	--	--	--
TOTAL	--	--	--	--	--	--	--
ALL AREAS	1,641,263	710,946	2,770,468	213,054	5,335,731	34,767	5,370,498

^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.^d San Bernardino combined with Tulare to avoid disclosure

Table SO-Production and disposition of bark residue by sawmills, by resource area, county, and use, California, 1988

RESOURCE AREA AND COUNTY	USED ^a					UNUSED	ALL BARK
	PULP	BOARD	FUEL	MISCELLANEOUS	TOTAL		
TONS, DRY WEIGHT							
NORTH COAST: DEL NORTE	--	--	7,469	45	7,514	4,580	12,094
HUMBOLDT	--	--	342,038	25,296	367,334	--	367,334
MENDOCINO	--	--	185,271	22,073	207,344	21,953	229,297
SONOMA	--	--	7,553	22,245	29,798	747	30,545
TOTAL	--	--	542,331	69,659	611,990	27,280	639,270
CENTRAL COAST: MONTEREY AN& SANTA CRUZ	--	--	--	13,886	13,886	--	13,886
TOTAL	--	--	--	13,886	13,886	--	13,886
NORTH INTERIOR: LASSEN AND MODOC ^b	--	--	59,945	--	59,945	--	59,945
SHASTA	2,062	--	168,631	1,262	171,955	--	171,955
SIERRA ^b	--	--	50,310	3,855	54,165	--	54,165
TRINITY	--	--	70,587	--	70,587	--	70,587
TOTAL	2,062	--	349,473	5,117	356,652	--	356,652
SACRAMENTO: BUTTE	--	--	30,028	1,655	31,683	--	31,683
EL DORADO AND PLACER ^b	--	--	77,616	21,172	98,788	--	98,788
GLENN AND YUBA	--	--	27,845	16,957	44,802	--	44,802
NEVADA	--	--	22,267	8,390	30,657	--	30,657
PLUMAS AND SIERRA ^b	2,531	--	97,507	--	100,038	--	100,038
TEHAMA	--	--	55,731	--	55,731	--	55,731
TOTAL	2,531	--	310,994	48,174	361,699	--	361,699
SAN JOAQUIN: AMADOR AND TUOLUMNE ^b	--	--	59,896	26,320	86,216	--	86,216
FRESNO AND MADERA ^b	--	--	--	53,353	53,353	--	53,353
TULARE ^c	--	--	285	38,330	38,615	--	38,615
TOTAL	--	--	60,181	118,003	178,184	--	178,184
SOUTHERN : SAN BERNARDINO ^c	--	--	--	--	--	--	--
TOTAL	--	--	--	--	--	--	--
ALL AREAS	4,593	--	1,262,979	254,839	1,522,411	27,280	1,549,691

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

^b Combined to avoid disclosure.

^c San Bernardino County combined with Tulare County to avoid disclosure.

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

RESOURCE AREA AND MILL-SIZE CLASS ^a	GREEN	KILN-DRIED	AIR-DRIED	TOTAL ^b	ROUGH	SURFACED
THOUSAND BOARD FEET, LUMBER TALLY						
NORTH COAST: C AND D ^c	34,716	--	81	34,797	14,220	20,577
B	221,047	25,508	3,532	250,087	149,299	100,788
A	1,235,653	421,097	241,405	1,898,155	414,363	1,483,792
TOTAL	1,491,416	446,605	245,018	2,183,039	577,882	1,605,157
CENTRAL COAST: A, B, AND C ^c	43,189	--	3,300	46,489	28,114	18,375
TOTAL	43,189	--	3,300	46,489	28,114	18,375
NORTH INTERIOR: B AND C ^c	45,900	78,030	3,407	127,337	58,450	68,887
A	393,979	627,327	97,754	1,119,060	136,400	982,660
TOTAL	439,879	705,357	101,161	1,246,397	194,850	1,051,547
SACRAMENTO: D	2,280	--	12	2,292	2,060	232
B	92,189	177,744	71,569	341,502	119,965	221,537
A	166,116	721,210	35,571	922,897	114,191	808,706
TOTAL	260,585	898,954	107,152	1,266,691	236,216	1,030,475
SAN JOAQUIN: B, C, AND D ^{c d}	54,899	32,210	16,566	103,675	87,470	16,205
A	206,292	276,505	35,910	518,707	127,512	391,195
TOTAL	261,191	308,715	52,476	622,382	214,982	407,400
SOUTHERN ^d	--	--	--	--	--	--
ALL AREAS: D	2,280	--	12	2,292	2,060	232
C	77,905	--	3,381	81,286	42,334	38,952
B	414,035	313,492	95,074	822,601	415,184	407,417
A	2,002,040	2,046,139	410,640	4,458,819	792,466	3,666,353
TOTAL	2,496,260	2,359,631	509,107	5,364,998	1,252,044	4,112,954

^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.

^d Southern combined with San Joaquin to avoid disclosure.

Table 32—Lumber production by sawmills, by resource area, mill-size class, and type of headrig, California, 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						
NORTH COAST:						
C AND D	250	34,547	--	--	--	34,797
B	7,500	242,587	--	--	--	250,087
A	--	1,736,213	--	120,600	41,342	1,898,155
TOTAL	7,750	2,013,347	--	120,600	41,342	2,183,039
CENTRAL COAST: A, B, AND C ^b	--	46,489	--	--	--	46,489
TOTAL	--	46,489	--	--	--	46,489
NORTH INTERIOR:						
B AND C	13,225	105,300	--	--	8,812	127,337
A	--	1,082,560	13,500	15,500	7,500	1,119,060
TOTAL	13,225	1,187,860	13,500	15,500	16,312	1,246,397
SACRAMENTO:						
D	1,910	382	--	--	--	2,292
B	--	341,502	--	--	--	341,502
A	--	841,802	81,095	--	--	922,897
TOTAL	1,910	1,183,686	81,095	--	--	1,266,691
SAN JOAQUIN: B, C, AND D ^{b c}	1,000	102,675	--	--	--	103,675
A	32,400	482,707	--	--	3,600	518,707
TOTAL	33,400	585,382	--	--	3,600	622,382
SOUTHERN ^c	--	--	--	--	--	--
ALL AREAS:						
D	1,910	382	--	--	--	2,292
C	250	81,036	--	--	--	81,286
B	21,725	792,064	--	--	8,812	822,601
A	32,400	4,143,282	94,595	136,100	52,442	4,458,813
TOTAL	56,285	5,016,764	94,595	136,100	61,254	5,364,998

^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; P = 120,000 or more.

^b Combined to avoid disclosure.

^c Southern combined with San Joaquin to avoid disclosure.

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

RESOURCE AREA AND COUNTY	CIRCULAR SAW	BAND SAW	GANG SAU	CHIPPING SAW	SCRAGG DOUBLE-CUT SAW	ALL TYPES
THOUSAND BOARD FEET, LUMBER TALLY						
NORTH COAST:						
DEL NORTE	150	40,240	--	--	--	40,390
HUMBOLDT	100	1,133,657	--	120,600	--	1,254,357
MENDOCINO	--	743,355	--	--	41,342	784,697
SONOMA	7,500	96,095	--	--	--	103,595
TOTAL	7,750	2,013,347	--	120,600	41,342	2,183,039
CENTRAL COAST:						
MONTEREY AND SANTA CRUZ ^a	--	--	--	--	--	--
	--	46,489	--	--	--	46,489
TOTAL	--	46,489	--	--	--	46,489
NORTH INTERIOR:						
LASSEN AND MODOC ^a	7,350	202,982	--	--	--	210,332
SHASTA	5,875	587,059	--	--	8,812	601,746
SIERRA	--	150,145	13,500	15,500	7,500	186,645
TRINITY	--	247,674	--	--	--	247,674
TOTAL	13,225	1,187,860	13,500	15,500	16,312	1,246,397
SACRAMENTO:						
BUTTE	310	110,481	--	--	--	110,791
EL DORADO AND PLACER ^a	--	264,980	81,095	--	--	346,075
GLENN AND YUBA ^a	1,200	155,994	--	--	--	157,194
NEVADA	400	107,101	--	--	--	107,501
PLUMAS AND SIERRA ^a	--	349,609	--	--	--	349,609
TEHAMA	--	195,521	--	--	--	195,521
TOTAL	1,910	1,183,686	81,095	--	--	1,266,691
SAN JOAQUIN:						
AMADOR AND TUOLUMNE ^a	32,400	264,306	--	--	3,600	300,306
FRESNO AND MADERA ^a	--	187,204	--	--	--	187,204
TULARE ^b	1,000	133,872	--	--	--	134,872
TOTAL	33,400	585,382	--	--	3,600	622,382
SOUTHERN:						
SAN BERNARDINO ^b	--	--	--	--	--	--
TOTAL	--	--	--	--	--	--
ALL AREAS	56,285	5,016,764	94,595	136,100	61,254	5,364,998

^a Combined to avoid disclosure.^b San Bernardino County combined with Tulare County to avoid disclosure.

Table 34—Number of pulpmills and board mills by resource area, county, and type of operation, California, 1988

RESOURCE AREA AND COUNTY	PULPMILL				BOARD MILL			ALL MILLS
	SULFITE	SULFATE	GROUNDWOOD	SEMICHEMICAL	HARDBOARD	PARTICLE BOARD	INSULATION BOARD	
NORTH COAST:								
DEL NORTE	--	--	--	--	--	1	--	1
HUMBOLDT	--	2	--	--	--	1	--	3
MENDOCINO	--	--	--	--	1	--	--	1
TOTAL	--	2	--	--	1	2	--	5
CENTRAL COAST:								
CONTRA COSTA	--	1	--	--	--	--	--	1
TOTAL	--	1	--	--	--	--	--	1
NORTH INTERIOR:								
SHASTA	--	1	--	--				1
TOTAL	--	1	--	--	--	--	--	1
SACRAMENTO:								
BUTTE	--	--	--	--	1	1	--	2
PLACER	--	--	--	--	--	1	--	1
TOTAL	--	--	--	--	1	2	--	3
SAN JOAQUIN:								
AMADOR								
TOTAL	--	--	--	--	--	1	--	1
SOUTHERN	--	--	--	--	--	--	--	--
ALL AREAS	--	4	--	--	2	5	--	11

Table 35—Installed capacity of pulpmills and board mills by resource area, county, and type of operation, California, 1988

RESOURCE AREA AND COUNTRY	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	3/4-INCH BASIS	1/2-INCH BASIS
NORTH COAST:							
DEL NORTE	--	--	--	--	--	35	--
HUMBOLDT	--	1,283	--	--	--	120	--
MENDOCINO	--	--	--	--	450	--	--
TOTAL	--	1,283	--	--	450	155	--
CENTRAL COAST:							
CONTRA COSTA	--	650	--	--	--	--	--
TOTAL	--	650	--	--	--	--	--
NORTH INTERIOR:							
SHASTA	--	230	--	--	--	--	--
TOTAL	--	230	--	--	--	--	--
SACRAMENTO:							
BUTTE	--	--	--	--	203	42	--
PLACER	--	--	--	--	--	84	--
TOTAL	--	--	--	--	203	126	--
SAN JOAQUIN:							
AMADOR	--	--	--	--	--	133	--
TOTAL	--	--	--	--	--	133	--
SOUTHERN	--	--	--	--	--	--	--
ALL AREAS	--	2,163	--	--	653	414	--

Table 36—Number of pulpmills and board mills by resource area, type of mill, years at present site, and tenure of present owner, California, 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	
SULFATE:						
21 PLUS	1	--	1	2	--	4
TOTAL	1	--	1	2	--	4
HARDWOOD :						
11-20	--	--	--	1	--	1
21 PLUS	--	--	--	--	1	1
TOTAL	--	--	--	1	1	2
PARTICLEBOARD:						
6-10	--	--	1	--	--	1
11-20	--	--	1	1	--	2
21 PLUS	--	1	--	1	--	2
TOTAL	--	1	2	2	--	5
ALL AREAS	1	1	3	5	1	11

Table 37—Average number of operating days per year of pulpmills and board mills by resource area, California, 1988^a

RESOURCE AREA	PULPMILL	BOARD MILL
NORTH COAST	343	330
CENTRAL COAST	360	--
NORTH INTERIOR	344	--
SACRAMENTO	--	351
SAN JOAQUIN	-- ^a	340
SOUTHERN	--	--
ALL AREAS ^a	348	341

^a Average of all mills within each type.

Table 38—Wood consumption by pulpmills and board mills, by resource area and type of material, California, 1988

RESOURCE AREA	ROUNDWOOD			OTHER WOOD					
	SOUND LOGS	UTILITY LOGS	TOTAL	CHIPS		SAWDUST	SHAVINGS	BARK	TOTAL
				FROM HILL RESIDUE	FROM ROUNDWOOD CHIPPING MILL				
- - - THOUSAND BOARD FEET, - - - - - - - - TONS, DRY UEIGHT - - - - - SCRIBNER LOG RULE									
NORTH COAST AND NORTH INTERIOR ^a	--	46,899	46,899	976,828	--	172,654	100,425	60,000	1,309,907
SACRAMENTO, CENTRAL COAST, AND SAN JOAQUIN ^a	--	--	--	442,720	22,974	42,420	287,461	--	795,575
SOUTHERN	--	--	--	--	--	--	--	--	--
ALL AREAS	--	46,899	46,899	1,419,548	22,974	215,074	387,886	60,000	2,105,482

^a Combined to avoid disclosure.

Table 39--Log consumption by pulpmills and board mills, by resource area and age group of timber, California, 1988

RESOURCE AREA	100 YEARS AND OLDER	LESS THAN 100 YEARS	ALL AGE GROUPS
<u>THOUSAND BOARD FEET, SCRIBNER LOG RULE</u>			
NORTH COAST AND NORTHERN INTERIOR ^a	35,174	11,725	46,899
SACRAMENTO, CENTRAL COAST AND SAN JOAQUIN ^a	--		
SOUTHERN	--	--	--
ALL AREAS	35,174	11,725	46,899

^a Combined to avoid disclosure.

Table 40--Log consumption by pulpmills and board mills, by resource area and owner, California, 1988

RESOURCE AREA	STATE	NATIONAL FOREST	LAND MANAGEMENT	OTHER PUBLIC	FOREST INDUSTRY			ALL OWNERS
					OWN WOOD SUPPLY	OTHER WOOD SUPPLY	OTHER PRIVATE	
THOUSAND BOARD FEET, SCRIBNER LOG RULE								
NORTH COAST AND NORTHERN INTERIOR ^a	--	9,380	--	469	14,070	15,945	7,035	46,899
SACRAMENTO, CENTRAL COAST, AND SAN JOAQUIN ^a	--							
SOUTHERN	--	--	--	--	--	--	--	--
ALL AREAS	--	9,380	--	469	14,070	15,945	7,035	46,899

^a Combined to avoid disclosure.

Table 41—Pulpmill and board mill consumption of mill residue and chips from other sources, by resource area, type of material, and State of origin, California, 1988

RESOURCE AREA AND TYPE OF MATERIAL	CALIFORNIA	OREGON	TOTAL
<u>TONS, DRY WEIGHT</u>			
NORTH COAST AND NORTHERN INTERIOR: ^a			
CHIP RESIDUE	976,828	--	976,828
CHIPS, OTHER RESOURCES	--	--	--
SAWDUST AND SHAVINGS	<u>223,579</u>	<u>49,500</u>	<u>273,079</u>
TOTAL	1,200,407	49,500	1,249,907
SACRAMENTO, CENTRAL COAST, AND SAN JOAQUIN: ^a			
CHIP RESIDUE	442,720	--	442,720
CHIPS, OTHER RESOURCES	22,974	--	22,974
SAWDUST AND SHAVINGS	<u>329,881</u>	<u>--</u>	<u>329,881</u>
TOTAL	795,575	--	795,575
SOUTHERN	--	--	--
ALL AREAS:			
CHIP RESIDUE	1,419,548	--	1,419,548
CHIPS, OTHER SOURCES	22,974	--	22,974
SAWDUST AND SHAVINGS	553,460	49,500	602,960
TOTAL	1,995,982	49,500	2,045,482

^a Combined to avoid disclosure.

Other Industries
Tables 42-54

Table 42--Number of "other industry" mills by resource area, county, and type of industry, California, 1988

RESOURCE AREA AND COUNTY	VENEER MILL	LAYUP MILL	VENEER AND LAYUP MILL	SHAKE AND SHINGLE	EXPORT	POST, POLE, AND PILING	ALL TYPES
NORTH COAST:							
DEL NORTE	1	--	--	--	--	--	1
HUMBOLDT	--	--	--	2	3	--	5
MENDOCINO	--	--	--	2	--	--	2
TOTAL	1	--	--	4	3	--	8
CENTRAL COAST:							
ALAMEDA	--	--	--	--	1	--	1
TOTAL	--	--	--	--	1	--	1
NORTH INTERIOR:							
SHASTA	--	--	--	--	--	1	1
SISKIYOU	2	--	--	--	--	1	3
TOTAL	2	--	--	--	--	2	4
SACRAMENTO:							
BUTTE	--	--	--	--	--	1	1
EL DORADO	1	--	--	--	--	--	1
SACRAMENTO	--	--	--	--	1	--	1
TEHAMA	--	--	1	--	--	--	1
TOTAL	1	--	1	--	1	1	4
SAN JOAQUIN:							
SAN JOAQUIN	--	--	--	--	--	1	1
TUOLUMNE	--	--	1	--	--	--	1
TOTAL	--	--	1	--	--	1	2
SOUTHERN:							
LOS ANGELES	--	--	--	--	--	1	1
TOTAL	--	--	--	--	--	1	1
ALL AREAS	4	--	2	4	5	5	20

Table 43—Installed capacity of "other industry" mills by resource area, county, and type of industry, California, 1988

RESOURCE AREA AND COUNTY	VENEER AND LAYUP MILL				SHAKE AND SHINGLE	POLE, POST, AND PILING
	VENEER MILL	LAYUP MILL	VENEER	LAYUP		
	8-HOUR CAPACITY (THOUSAND SQUARE FEET, 3/8-INCH BASIS)				8-HOUR CAPACITY (SQUARES)	ANNUAL CAPACITY (THOUSAND BOARD FEET, SCRIBNER LOG RULE)
NORTH COAST:						
DEL NORTE	350	--	--	--	--	--
HUMBOLDT	--	--	--	--	108	--
MENDOCINO	--	--	--	--	14	--
TOTAL	350	--	--	--	124	--
CENTRAL COAST	--	--	--	--	--	--
NORTH INTERIOR:						
SHASTA	--	--	--	--	--	1,843
SIKUYOU	575	--	--	--	--	3,350
TOTAL	575	--	--	--	--	5,193
SACRAMENTO:						
BUTTE	--	--	--	--	--	12,240
EL DORADO	65	--	--	--	--	--
TEHAMA	--	--	160	174	--	--
TOTAL	65	--	160	174	--	12,240
SAN JOAQUIN:						
SAN JOAQUIN	--	--	--	--	--	3,545
TUOLUME	--	--	165	165	--	--
TOTAL	--	--	165	165	--	3,545
SOUTHERN:						
LOS ANGELES	--	--	--	--	--	2,189
TOTAL	--	--	--	--	--	2,189
ALL AREAS	990	--	325	339	124	23,167

Table 44--Number of veneer and plywood mills by resource area and diameter limit of lathe, California, 1988

RESOURCE AREA	LAYUP ONLY	DIAMETER LIMIT OF LATHE (INCHES)						
		20-29	30-39	40-49	50-59	60-69	70-79	80 PLUS
NORTH COAST	--	--	--	--	--	--	--	1
CENTRAL COAST	--	--	--	--	--	--	--	--
NORTH INTERIOR	--	--	1	--	--	1	--	--
SACRAMENTO	--	1	--	--	--	1	--	--
SAN JOAQUIN	--	--	--	--	--	1	--	--
SOUTHERN	--	--	--	--	--	--	--	--
ALL AREAS	--	1	1	--	--	3	--	1

Table 45--Number of veneer and plywood mills by resource area and diameter of core produced, California, 1988

RESOURCE AREA	DIAMETER OF CORES (INCHES)								NO LATHE OR CORE
	3	4	5	6	7	8	9	10	
NORTH COAST	--	--	--	--	--	--	1	--	--
CENTRAL COAST	--	--	--	--	--	--	--	--	--
NORTH INTERIOR	--	--	2	--	--	--	--	--	--
SACRAMENTO	--	1	--	1	--	--	--	--	--
SAN JOAQUIN	--	--	--	1	--	--	--	--	--
SOUTHERN	--	--	--	--	--	--	--	--	--
ALL AREAS	--	1	2	2	--	--	1	--	--

Table 46--Number of veneer and plywood mills by resource area, county, and selected equipment, California, 1988

RESOURCE AREA AND COUNTY	4-FOOT LATHE	8-FOOT LATHE	SLICER	VENEER CHIPPER	CORE CHIPPER	COLD PRESS	HOT PRESS	BURNER
NORTH COAST: DEL NORTE	--	1	--	1	--	--	--	--
TOTAL	--	1	--	1	--	--	--	--
CENTRAL COAST	--	--	--	--	--	--	--	--
NORTH INTERIOR: SISKIYOU	1	2	--	1	1	--	--	--
TOTAL	1	2	--	1	1	--	--	--
SACRAMENTO: EL DORADO TEHAMA	1 --	-- 1	-- --	1 1	-- 1	-- --	-- 1	-- --
TOTAL	1	1	--	2	1	--	1	--
SAN JOAQUIN: TUOLUMNE	--	1	--	1	1	--	1	--
TOTAL	--	1	--	1	1	--	1	--
SOUTHERN	--	--	--	--	--	--	--	--
ALL AREAS	2	5	--	5	3	--	2	--

Table 47--Number of "other industry" mills by type of industry, years at present site, and tenure of present owner, California, 1988

TYPE OF INDUSTRY AND YEARS AT PRESENT SITE	TENURE OF PRESENT OWNER (YEARS)					ALL MILLS
	0-2	3-5	6-10	11-20	21 PLUS	
VENEER AND PLYWOOD: 21 PLUS	1	--	1	2	2	4
TOTAL	1	--	1	2	2	4
SHAKE AND SHINGLE: 0-2	1	--	--	--	--	1
11-20	1	--	--	--	--	1
21 PLUS	--	--	--	--	2	2
TOTAL	2	--	--	--	2	4
POST, POLE, AND PILING: 21 PLUS	--	--	--	--	5	5
TOTAL	--	--	--	--	5	5

Table 48—Average number of operating days per year of "other industry" mills by resource area and type of industry, California, 1988

RESOURCE AREA	VENEER MILL	LAYUP MILL	VENEER AND LAYUP MILL	SHAKE AND SHINGLE	POST, POLE, AND PILING
NORTH COAST	239	--	--	148	--
CENTRAL COAST	--	--	--	--	--
NORTH INTERIOR	281	--	--	--	210
SACRAMENTO	55	--	250	--	400
SAW JOAQUIN	--	--	252	--	365
SOUTHERN	--	--	--	--	250
ALL AREAS ^a	214	--	251	148	287

^a Average of all mills within each type.

Table 49—Wood consumption by "other industry" mills, by type of industry and type of material, California, 1988

TYPE OF INDUSTRY	ROUNDWOOD			OTHER WOOD	RLL WOOD
	SOUND LOGS	UTILITY LOGS	TOTAL ROUNDWOOD		
THOUSAND BOARD FEET, SCRIBNER LOG RULE					
VENEER AND PLYWOOD	185,712	10,044	195,756	--	195,756
SHAKE AND SHINGLE	1,279	107	1,386	122	1,508
EXPORT	46,265	10,627	56,892	--	56,892
POST, POLE, AND PILING	10,849	--	10,849	--	10,849
TOTAL	244,105	20,778	264,883	122	265,005

Table 50--Log consumption by "other industry" mills, by type of industry and age group of timber, California, 1988

TYPE OF INDUSTRY	100 YEARS AND OLDER	LESS THAN 100 YEARS	ALL AGE GROUPS
<u>THOUSAND BOARD FEET, SCRIBNER LOG RULE</u>			
veneer- and plywood	76,450	119,306	195,756
shake and shingle	1,364	22	1,386
export	12,112	44,780	56,892
post, pole, and piling	71	10,778	10,849
TOTAL	89,997	174,886	264,883

Table 51--Log consumption by "other industry" mills, by type of industry and owner, California, 1988

TYPE OF 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								
veneer and plywood	--	80,864	--	--	52,967	58,875	3,050	195,756
shake and shingle	--	--	--	--	--	1,159	227	1,386
EXPORT	--	--	--	--	2,005	16,887	38,000	56,892
POST, POLE, AND PILING	130	2,324	--	--	406	6,025	1,964	10,849
TOTAL	130	83,188	--	--	55,378	82,946	43,241	264,883

Table 52—Log consumption by "other industry" mills, by type of industry and species, California, 1988

TYPE OF INDUSTRY	DOUGLAS-FIR	REDWOOD	TRUE FIRS	SUGAR PINE	PONDEROSA PINE	LOOGEPOLE PINE	INCENSE- CEDAR	OTHER SOFTWOODS	HARDWOODS	ALL SPECIES
<u>THOUSAND BOARD FEET, SCRIBNER LOG RULE</u>										
veneer and plywood	48,400	3,300	139,182	--	1,324	3,000	--	550	--	195,756
shake and shingle	--	--	--	--	--	--	29	1,357	--	1,386
export	18,623	--	33,656	--	--	--	380	4,233	--	56,892
post, pole, and piling	7,457	--	--	--	3,321	--	--	71	--	10,849
TOTAL	74,480	3,300	172,838	--	4,645	3,000	409	6,211	--	264,883

Table 53—Production and disposition of wood residue by "other industry" mills, by type of industry, type of residue, and use, California, 1988

TYPE OF INDUSTRY AND TYPE OF RESIDUE	USED'					UNUSED	TOTAL
	PULP	BOARD	FUEL	MISCELLANEOUS	TOTAL		
<u>TONS. DRY WEIGHT</u>							
COARSE RESIDUE: ^b							
VENEER AND PLYWOOD	133,818	8,084	75,195	43,684	260,781	312	261,093
SHAKE AND SHINGLE			24	161	185		185
TOTAL	133,010	8,084	75,219	43,845	260,966	312	261,278
FINE RESIDUE: ^c							
VENEER AND PLYWOOD	--	--	4,479	--	4,479	--	4,479
SHAKE AND SHINGLE	--	--	29	258	287	--	287
TOTAL	--	--	4,508	258	4,766	--	4,766
ALL TYPE OF RESIDUE:							
VENEER AND PLYWOOD	133,818	8,084	79,674	43,684	265,260	312	265,572
SHAKE AND SHINGLE	--	--	53	419	472	--	472
TOTAL	133,010	0,084	79,727	44,103	265,732	312	266,044

^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, splints, and sawdust.

Table 54—Production and disposition of bark residue by "other industry" mills, by type of industry and use, California, 1988

TYPE OF INDUSTRY	USED ^a					UNUSED	ALL BARK
	PULP	BOARD	FUEL	MISCELLANEOUS	TOTAL		
TONS. DRY WEIGHT							
VENEER AND PLYWOOD	--	--	59,262	19,800	79,062	--	79,062
SHAKE AND SHINGLE	--	--	195	19	214	--	214
TOTAL	--	--	59,457	19,819	79,276	--	79,276

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

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This report presents the findings of a survey of all primary forest products industries in California 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, California.

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