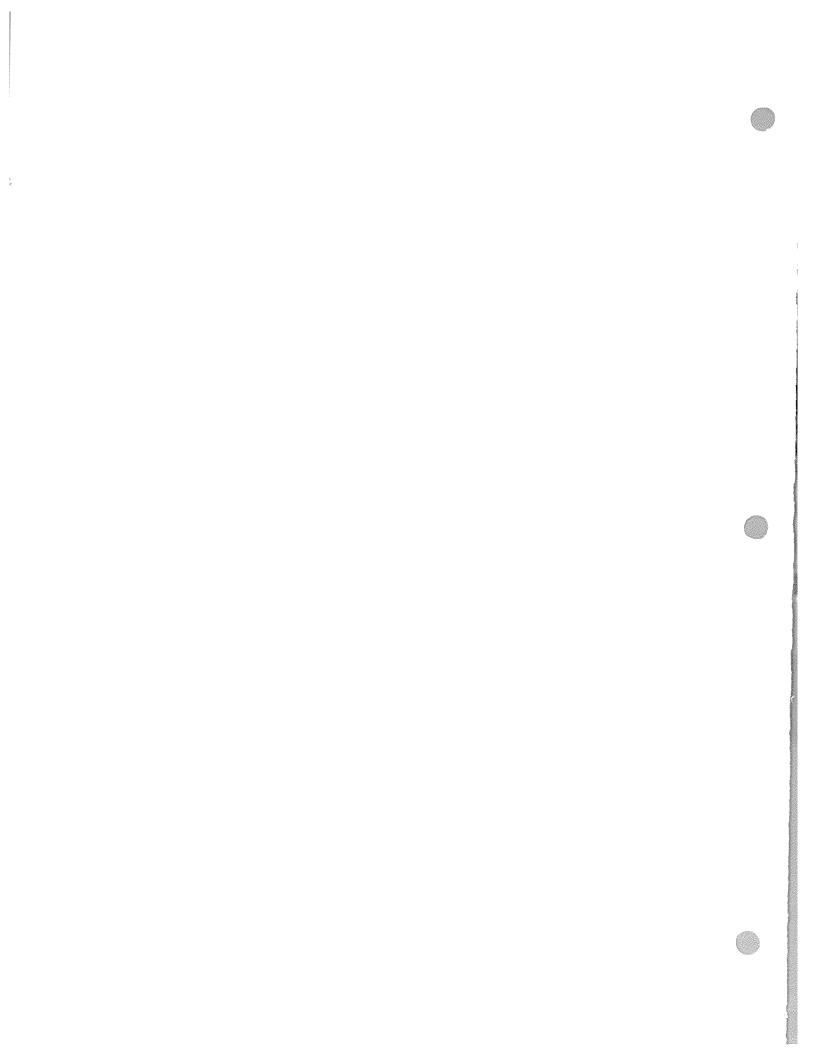
1984 WASHINGTON MILL SURVEY

WOOD CONSUMPTION AND MILL CHARACTERISTICS

SERIES REPORT NO. 9 1986

by DAVID N. LARSEN DONALD A. BEARDEN





Acknowledgments

We appreciate the support of the major forest industry associations, individual mill owners, operators and exporters who provided data for this survey.

Gratitude is also expressed to the Washington State Department of

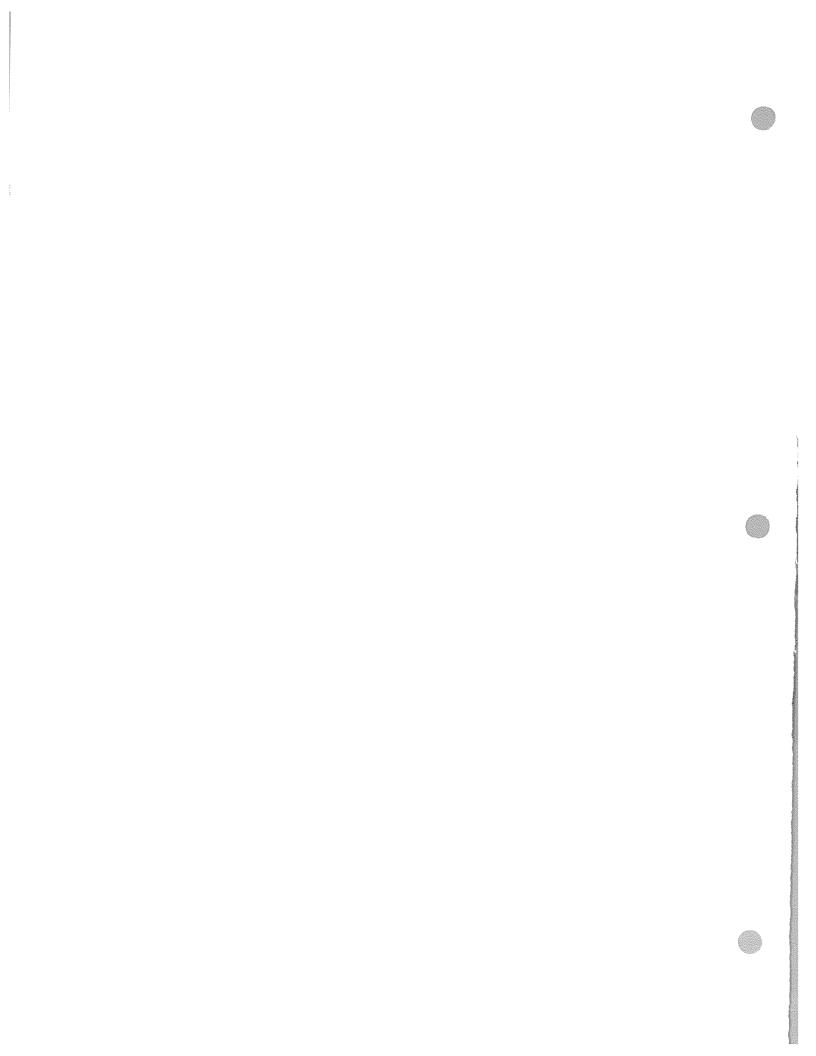
Natural Resources staff who helped make this report possible. Bob Brewer (Technical Consulting Section) greatly aided with computer systems support. Others included John Bergvall, Michael Dickter, Carol Lind, Cathy Rucker, Carolyn Trujillo and Susan Tweit.

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Foreword

This report presents comprehensive statistics on wood consumption and the characteristics of primary wood processing mills operating in Washington during calendar year 1984. It documents the findings of the ninth biennial survey about mill characteristics, wood flows, and the input of raw materials into the state's six wood-using industries:

- o sawmills
- o veneer and plywood mills
- o pulp mills
- o pole, post and piling mills
- o shake and shingle mills
- o log export operations

The 1984 statistics were obtained from a mail survey. Telephone followup was conducted in 1985. Firms contacted were based on an up-to-date mailing list.

Since this survey was a 100 percent canvas, no sampling error is involved.

However, in a few cases data had to be estimated based on extrapolations from previous reports. Log imports to Washington from British Columbia Crown lands are included in the out-of-state national forest category. In total, this report provides the best and most reliable estimate of the status of wood-using industries in Washington as of 1984.

Information about individual mills or companies is confidential. Data that might reveal individual mill identity have been combined with other data to avoid disclosure.

Though not a major objective of this survey, production data were obtained to provide information on wood requirements for given levels of production and to generate residue volumes.

The text highlights some statistics presented in the tables. It also provides a summary of the 1984 timber economy, as well as recent trend information. Residue, commodity production, and wood consumption information can aid in tracking production and consumption trends.

¹Mills that use roundwood or are the original firm to process the raw material.

Abbreviations

bf = board feet

M = thousand

Mbf = thousand board feet

Scribner

= million board feet MMbf

Scribner

sf = square feet

Msf = thousand square feet 3/8-

inch basis

MMsf = million square feet 3/8-inch basis

Square = hundred square feet

M sq. = thousand squares

Report Preface Comparison of Past Years

This section graphically compares data developed from the 1974, 1976, 1978, 1980, 1982 and 1984 surveys.

-						On the last contract of the la	unan manahira mananan arkemininta	a little and a second as a second as a second			
		Number	of	Mills	Included in	the :	Survey	/s*			
					1974	1976	1978	1980	1982	1984	
	Sawmills				187	175	182	208	169	150	
	Veneer and	plywood			37	36			27	28	
	Pulp				25	26	26	23	21	20	
	Shake and s	hingle			205	252	337	267	195	131	
	Pole, post,	and pi	111	ng	23	22	23	21	13	11	
	Log export				90	81	160	134	124	102	
	Totals				567	592	764	687	549	442	

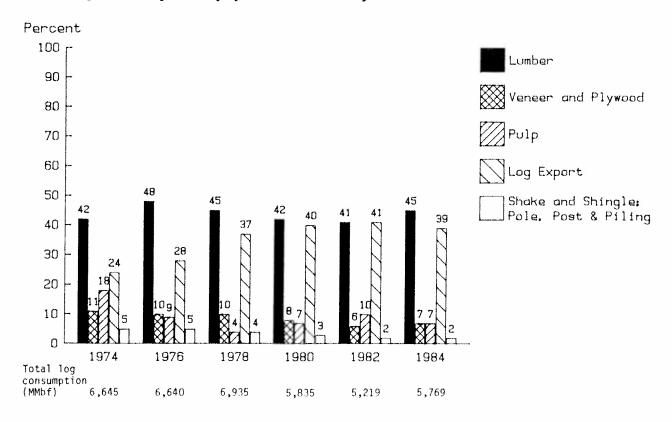
^{*} Only primary wood processing mills that operated during the survey year are included.

Trends

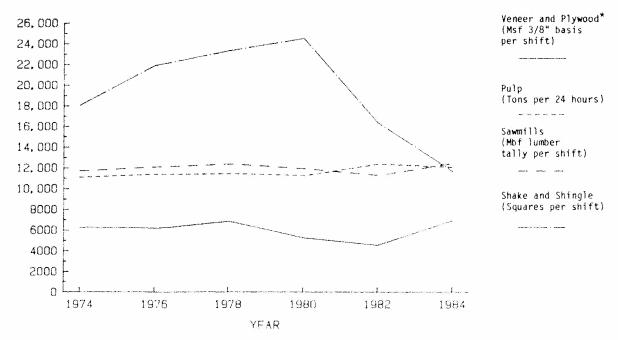
- The total number of operations in the forest products industry decreased 19.5 percent from 1982 to 1984. By percent, the pole, post, and piling sector declined 15.4; shake and shingle decreased 32.8; veneer and plywood increased 3.7; and sawmills decreased 11.2. All sectors declined except veneer and plywood.
- o The lumber sector has shown a marked 22 percent increase in roundwood consumption from 1982 to 1984.
- o The log export sector share of total log consumption declined from 41 percent in 1982 to 39 percent in 1984. However, log export volume increased from 2.1 in 1982 to 2.3 billion board feet Scribner in 1984 (a 9.5 percent increase).
- o Douglas fir accounted for 46 percent of the harvest volume in 1984, the same as in 1982. However, Douglas fir declined as a percent of log export log

- consumption from 56 to 48 percent of the volume exported from 1982 to 1984.
- Those mills more than two-thirds dependent on a single ownership class for log supply decreased from 346 in 1982 to 272 in 1984. Mills more than two-thirds dependent on public ownership decreased 1 percent; private ownership decreased 28 percent. However, the percent of all operating mills more than two-thirds dependent on a single-owner class only declined from 63 percent in 1982 to 62 percent in 1984.
- o The percent of wood and bark residues being used increased and reached 98 percent in 1984. The increase from 1982 was 1 percent. The lumber sector increased use slightly to 98.4 percent. The veneer and plywood sector use level slightly exceeded 99.8 percent. The shake and shingle industry lags substantially with the use of residues at the 59 percent level.

Total log consumption by year and industry



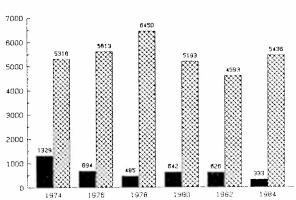
Installed shift capacity



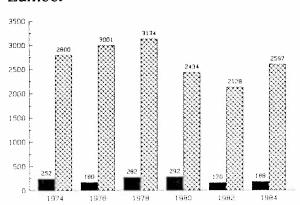
^{*}Capacity includes total capacity for veneer-only and layup-only operations, but for veneer and layup plants it only includes the layup capacity.

Roundwood consumption of sound and utility logs (Million board feet Scribner)

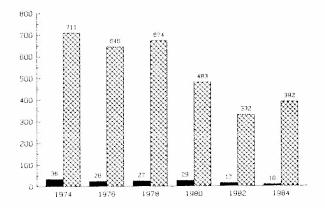
State Total



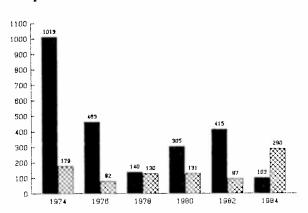
Lumber



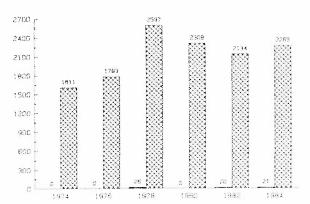
Veneer and Plywood



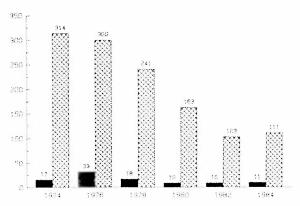
Pulp



Log Export



Shake and Shingle; Pole, Post and Piling



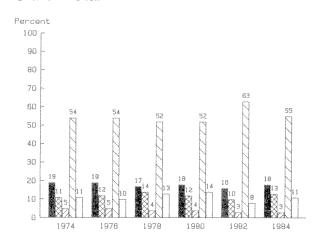
Wiffity Loge

Sound Lags

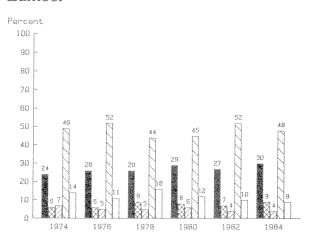
NOTE: Scale for neight of bar is different for each industry. Hence visual comparison among the different industries is not valid.

Log consumption by ownership class

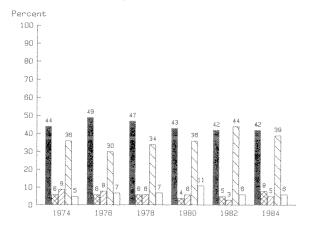
State Total



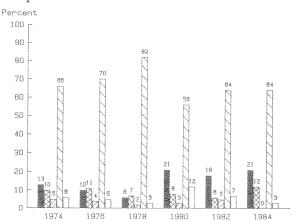
Lumber



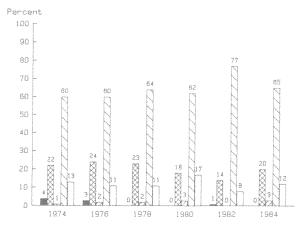
Veneer and Plywood



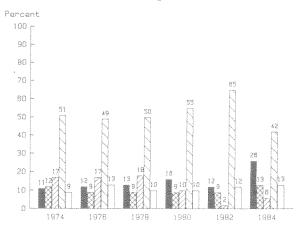
Pulp



Log Export



Shake and Shingle; Pole, Post and Piling







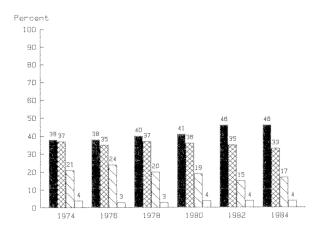
Other Public

Forest Industry

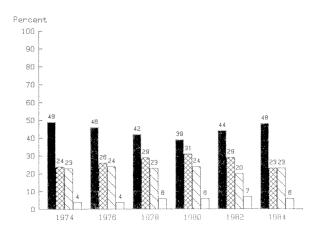
Former and Misc.

Log consumption by species

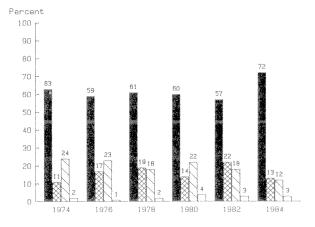
State Total



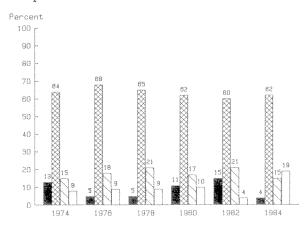
Lumber



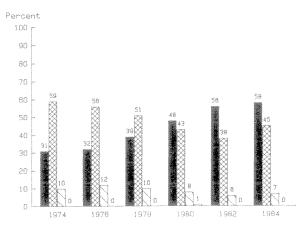
Veneer and Plywood



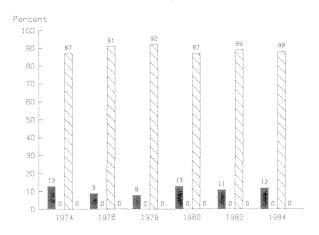
Pulp



Log Export



Shake and Shingle; Pole, Post and Piling





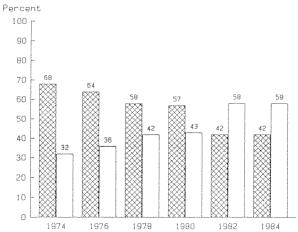


Other Softwoods

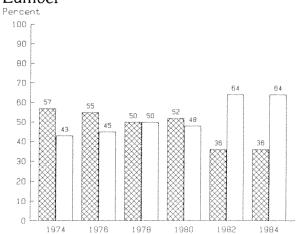
Hardwoods

Log consumption by timber age group

State Total

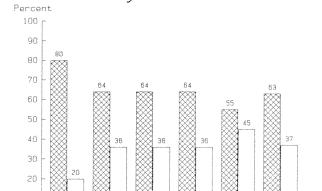


Lumber



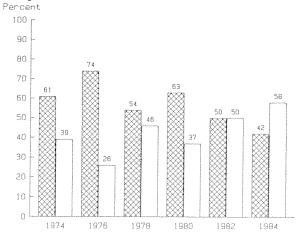
Veneer and Plywood

1976



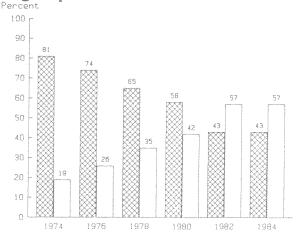
1978

Pulp

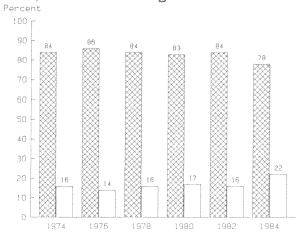


Log Export

10



Shake and Shingle; Pole, Post and Piling



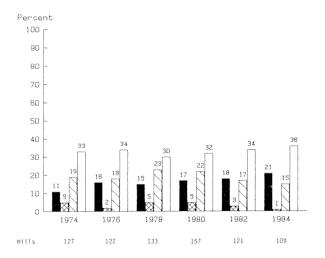


Young Growth (Less than 100 yrs.)

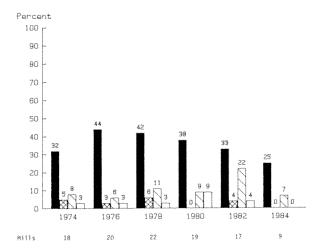
1984

Number of and percent of mills more than two-thirds dependent on a single ownership class for logs

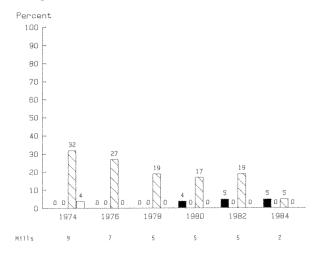
Lumber



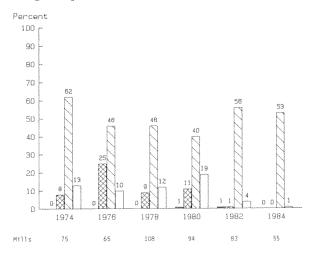
Veneer and Plywood



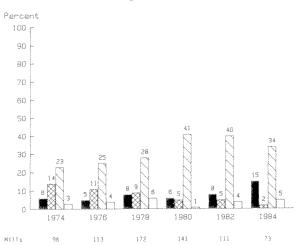
Pulp



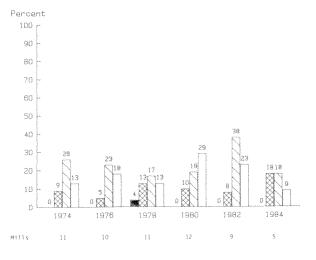
Log Export



Shake and Shingle



Pole, Post and Piling



National Forest

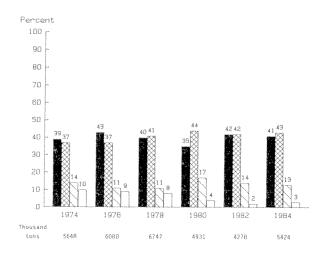
State and Other

Forest Industry

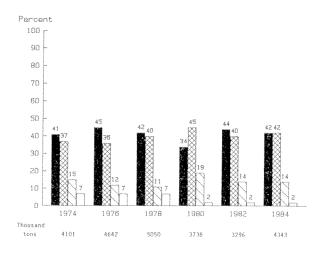
Former and Misc.

Production and disposition of wood and bark residue

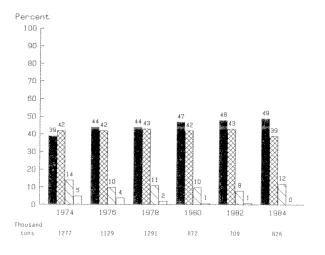
State Total



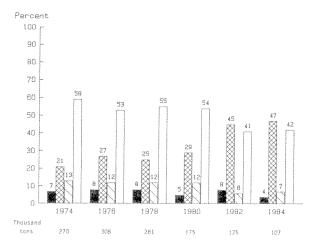
Lumber



Veneer and Plywood



Shake and Shingle





1984 Highlights

Mills operating in Washington in 1984 totaled 442. Analysis of single-shift capacity and number of mills type shows:

442 mills total:

Type of mill	Number of mills	Single shift capacity
Sawmills	150	12.4 MMbf
Veneer & plywood	28	4.5 MMsf
		(3/8" basis)
Pulp	20	12.0 M Tons
		(Daily)
Log Export	102	NA
Shake & Shingle	131	11.6 M Sq.
Pole, Post and Piling	11	34.9 MMbf
		(Peeling-Yearly)

- o Grays Harbor county led with 75 operations.
- o The 45 largest sawmills (Class A) had 72 percent of the total eight-hour shift sawmilling capacity.

Wood Consumption

- o 5.8 billion board feet of roundwood logs were consumed.
- o 37 million board feet (log scale) of peeler cores, cants, blocks, bolts, and miscellaneous peeled products were consumed.
- o 6.8 million tons of chips, sawdust and shavings were consumed by the pulp industry.

Leading counties in roundwood use were:

Gravs Harbor.	Jefferson	and Mason**	1,076 MMbf
Cowlitz			968 MMbf
Pierce			620 MMbf

**Combined to avoid disclosure

Roundwood use by industry:

Sawmills45	ay Ao
Log export39	%
Pulp & board	%
Veneer & plywood	2
Shake & shingle	. K
Pole, post & piling	ar b

- o 91 percent of total wood used by the pulp sector was in the form of chips, sawdust, shavings, and waste paper.
- o 94 percent of all log volume used was from sound timber.
- o 46 percent of roundwood volume was Douglas fir; 33 percent hemlock; and 5 percent western red cedar.
- o 5 percent of all log volume was imported; 87 percent came from Oregon.
- o 55 percent of log volume came from forest-industry timberlands; 18 percent from National Forests; 13 percent from state.
- o 68 percent of national forest log volume statewide came from combined harvests in the Gifford Pinchot, Olympic, and Mt. Baker-Snoqualmie National Forests; 30 percent from the Gifford Pinchot; 18 percent from the Olympic; and 20 percent from the Mt. Baker-Snoqualmie.

Residues

5.4 million tons of wood and bark residues were generated:

Type of mill	Percent	Million tons
		100-000-000-000-000-000-000-000-000-000
Sawmills	80	4.3
Veneer & plywood	15	0.8
Shake & shingle		
& other	5	0.3

o 76 percent of residue was wood; 24 percent was bark. Ninetyeight percent of wood residues

^{*} The term "mill" is used in this report for all types of primary processing plants. It is recognized that some are better described by other terms, such as export operations or facilities, and pole and piling yards.

and 98 percent of the bark were used. Unused were 114,446 tons of wood and bark.

o 54 percent of wood residue went to the pulp sector; 33 percent to fuel; 11 percent other uses; 2 percent was unused.

Table number cross index (Between the nine Washington mill survey reports¹) report year and table number

1984, 1982, 1980, and 1978	1976	1974	1972 and 1970	1968	198 4 and 1982	1980 and 1978	1976	1974	1972 and 1970	1968
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 6 17 18 19 20 1 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40	1 2,26*,76* 3 4 5 5 6 7,61,77* 8,76* 9 10,60 11 12 13 144 15 166 17 18 19 20 21 22 23 24 25 27 28 29 30 31 32 23 33 34 35 36 37 38 39 40 41	1 2,25,74* 3 4 6,47,60,72 7,59,70 8,74*,75 18,44,58,69* 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 28 29 30 31 32 33 34 35 36 37 37 38 39 40	1 2,24,72* 3 4 4 45,58,70 6,57,68 7,72*,72*,73 8 17,42,56,67* 10 11 12 13 14 15 16 17 18 19 20 21 22 23 25 26 28 27 29 31 30 32 25 26 28 27 29 31 30 32 25 26 34 35 36 37 38	1* 2*,23,67* 3* 4 5,42,55,66 19,41,54,64 6*,67* 7 16,39,53,63* 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 24 25 26 27 28 30 31 32 34 35 33	41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 66 67 68 69 70 71 72 68	41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 77 77 77 77 77 77 77 77	42 43 44 45 46 47 48,49 50 51 52 53 54 55 55 56 67 68 69 70 71 72 73 74 75 78 79 80 81 82 7*	41 42 43 44 45 46 48,49* 50 51 52 53 54 55 56 61 62 63,64,67 66 68 71* 78 79 80 81 64,67 65* 66 68 71* 78 79 80 67 71 78 79 80 81 81 81 81 81 81 81 81 81 81 81 81 81	39 40 41 42 43 44 46,47* 48 49 50 51 52 53 54 55* 60 61,62,65 63* 64 66 69* 76 77 78 78 79 61,62,65 64 64 67 77 78 79 61 62,65 63* 71 79 66* 64 77 78 80	36 37 38 39 40 41 43,44* 45 46 47 48 49 50* 51 52* 56 57,58,61 59* 60 62 65* 69 70 71 57,61 60 59* 60 62 65* 69 70 71 60 62 65* 69 70 71 71 60 60 62 65* 69 70 71 71 72 60 60 60 60 60 60 60 60 60 60

¹Base year 1984

^{*}Contains part of same information

Table of Contents

																									P	age
Acknowle	edgments .		* *					•	•	•	•				•	*	٠		٠		•		•		•	ii
Foreword	1					* 1		÷		•	•	•	٠	•	٠	*		•					•		٠	111
Abbrevia	itions	* * *	* *		· w			•		•	•	٠						•			*	*		*	*	iv
Report P	reface .		* *		ě	* *		*				•	٠			à		*	*	*	*		*	*	*	V
	Comparise																									
Table Nu	mber Cross (Between			lash	ing	ton	M	i 1 1	1 5	Sun	^ V (∋у	Re	epo	ori	ts)) .	•		•	•	•	*	•	•	xiv
Industry	Overview	* * *	* *		*		*	*	80	*	۰	*	*	e			٠		*	*			*			1
	The Timbe Industry Wood Cons Residues	Charac Sumptic	cteri on .	sti	cs ·		*	•	*	*			*			0	8	*					۰	*		3 6 7 8
Summary (of 1984 Su																									
	Lumber Ir	Mill Wood Produ	Char Cons	acte ump	eris tion	sti	CS •	*		*					0	*	b &	8	*			*		•	*	13 13 14 16
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		Mill Wood Produ	Cons	umpt	ior			a	÷			a					g	*		8	4					18 18 20
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		Mill Wood																								21 21

Table of Contents (Continued)

		rage
	Shake and Shingle Industry	23
	Mill Characteristics	23 23 24
	Pole, Post and Piling Industry	25
	Industry Characteristics	25 25
	Log Export Industry	26
	Industry Characteristics	26 26
	Hardwood Industry	27
	Industry Characteristics	27 27 28 28 28
Appendix	A Measurement Units	1
Appendix	B Mill Residues	-1
Appendix	C Computer Program Used for this Report	; - 1
Appendix	D Report Data	1-1
	Summary)-17)-45)-53)-57)-69
Appendix	E Questionnaire Forms	<u> </u>

List of Figures

Fig	gure	Page
1	Output of major timber products for Washington	5
2	Washington wood use by major forest industries	5
3	The five economic areas encompassing the 39 counties	6
4	Log consumption by type of industry	7
5	Relative and absolute residue volume	9
6	Percent of sawmills by size-class	13
7	Sawmill log consumption by mill size-class	14
8	Sawmill log consumption by species and area	16
9	Type and disposition of sawmill residues	17
10	Veneer and plywood log consumption by economic area	19
11	Plywood production by economic area	20
12	Percent of roundwood consumed by economic area	
13	Shake and shingle roundwood consumption by economic area	21
14	Pole, post and piling wood consumption by economic area	23
15		25
LJ	Log export by economic area	26

List of Tables

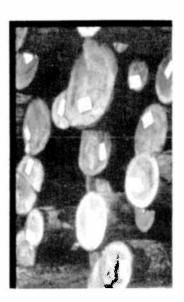
Tab	l e	Page
WAS	HINGTON SUMMARY	
1	Number of mills by timber industry	. D−3
2	Primary wood consumption	• D-4
3	Log use by industry and origin	• D-5
4	Log consumption by county and harvest origin by county \dots	• D-6
5	Log use from National Forests	• D-10
6	Number of mills dependent upon ownerships	. D-11
7	Log consumption by ownership	• D-12
8	Log consumption by species	. D-13
9	Production and disposition of wood and bark residues \dots	. D−14
10	Log consumption by timber age	. D-15
C 41 11	MTV 1 G	
	MILLS	n 17
11	Number of sawmills by mill size-class	
12	Installed eight-hour single-shift capacity	
13	Number of sawmills with selected equipment by mill size-class	
14	Number of sawmills with selected equipment by county	
15	Number of sawmills by headrig type and size	
16	Number of sawmills by tenure of present ownership by site occupancy	
17	Average number of operating days	
18	Type of wood consumed	
19	Age of logs consumed	
20	Log consumption by timber age	
21	Log inventory changes, log consumption, and apparent log receipts .	
22	Ownership origin of logs by mill size-class	
23	Ownership origin of logs consumed by county	
24	Number of mills dependent upon ownerships	
25	Log consumption by species, by mill size-class	
26	Log consumption by species, by county	. D-32
27	Production and disposition of wood and bark residues by mill size-class	. D-33
28	Production and disposition of wood residues by \mbox{mill} size-class	• D−34
29	Production and disposition of bark residues by mill size-class	. D-36
30	Production and disposition of wood and bark residues by county	D-37
31	Production and disposition of wood residues by county	D-38
32	Production and disposition of bark residues by county	D-40
33	Degree of lumber manufacture	D-41

List of Tables (Continued)

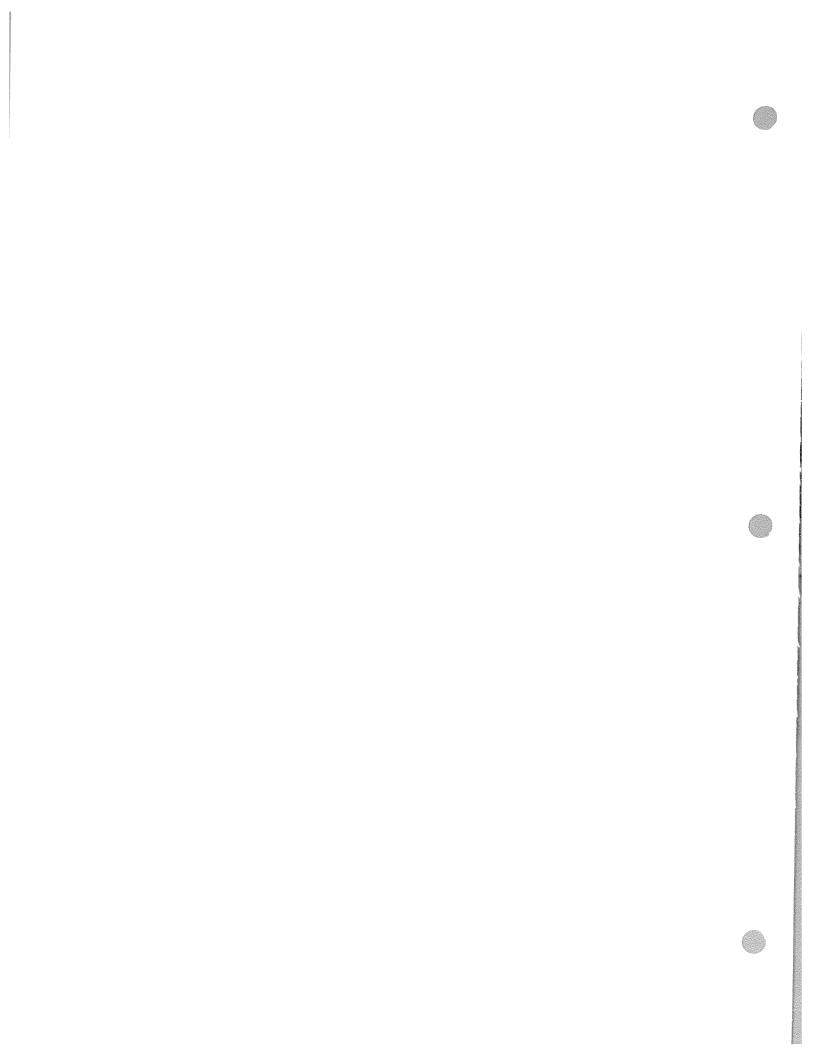
Tab	le le		Page
34	Lumber production by headrig type, by mill size-class	*	D-42
35	Lumber production by headrig type, by county		D-43
VEN	EER AND PLYWOOD MILLS		D / 5
36	Number of veneer and plywood mills		D-45
37	Installed eight-hour single—shift capacity	٠	D-40
38	Number of mills by lathe log diameter limit		
39	Number of mills by minimum core size produced		
40	Number of mills having selected equipment		
41	Number of mills by tenure of present ownership		
42	Average number of operating days		
43	Log inventory changes, log consumption and apparent log receipts		
44	Production and disposition of wood residues		
45	Veneer and plywood production	*	D-52
PIII	P AND BOARD MILLS		
46	Number of pulp mills	8	D-53
47	Installed capacity by type of mill		
48	Number of mills by tenure of present ownership		
49	Average number of operating days		
50	Mill production by product and operation		
51	Type of wood consumed		
52	Roundwood and chip consumption		
53	Pacidue and off-site roundwood thin consumntion by state		
	or province		D-58
SHAI	KE AND SHINGLE MILLS		
54	Number of shake and shingle mills and their operating		
	characteristics	6	D-59
55	Number of shake and shingle mills with selected equipment	÷	D-60
56	Number of shake and shingle mills by tenure of present ownership and site occupancy		D-61
57	Type of wood consumed		
58	Ownership origin of logs consumed		
59	Production and disposition of wood and bark residues		
60	Production and disposition of wood residues		
61	Production and disposition of bark residues		
62	Mill production by product type		
~ K	till broampoin ny broampo pype a a a a a a a a a a a a a a a a a a a	**	ALC 16-2

List of Tables (Continued)

Tab	le	Page
POL	E, POST AND PILING MILLS	
63	Number of pole, post and piling mills and their operating characteristics	D-69
64	Number of pole, post and piling mills by tenure of present ownership and site occupancy	D-69
65	Number of pole, post and piling mills with selected equipment	D-70
66	Log consumption by timber age	D-71
67	Mill production	D-71
LOG	EXPORT OPERATIONS	
68	Number of export operations and type of logs exported	D-73
69	Number of export operations by years of port use	D-73
70	Log flows to ports	D-74
71	Log consumption	D-75
72	Ownership origin of logs consumed	D-75



Industry Overview



The Timber Economy

The Washington timber economy continued to adapt to challenging ecoduring 1984. conditions nomic Unexpected lower inflation rates and lower product demands affected Also, the stumpage contracts. U.S. dollar was relatively strong internationally, resulting higher levels of forest product imports. Yet, the state remained one of the leading timber industry states, producing 12.7 percent of the nation's softwood lumber, 7 percent of the nation's softwood plywood, and providing 68 percent of the nation's softwood log exports.

Housing starts are often used as an indicator of the timber industry's general health. In 1984 there were 1.7 million housing starts nationally, compared to 1.1 million in 1982. Although this was a respectable number, there were difficultties in the Washington timber industry. Many companies were faced with disposing stumpage purchased during the double-digit inflation period of 1979-80. It was not profitable to harvest high-priced stumpage in the 1984 market environ-While negotiations resolve the issues were place between the public managers and stumpage contract owners, bankruptcies resulted for some contract owners.

To illustrate the change, the average stumpage price of timber sold on publicly owned or managed lands in Western Washington plummeted from \$238 per thousand board feet in 1980 to \$79 in 1984. Most firms lowered manufacturing costs. In some instances, wage rates were renegotiated to

¹USDA Forest Service Resource Bulletin PNW-127, October 1985. Production, Prices, Employment, and Trade In Northwest Forest Industries, Second Quarter 1985. Table 49.

lower levels. Others used profitsharing to increase output per unit of input. Plant modernization and product market specialization were other strategies used to remain profitable in the competitive environment of 1984. To survive meant innovation.

Imports of lumber from Canada to the United States increased substantially over the past decade, going from 5.5 billion board feet in 1975 to 11.6 billion board feet in 1983 and to a record high of 12.9 billion board feet in 1984.2 The strength of the U.S. dollar relative to the Canadian dollar has been a contributing factor to the changing competitive environment in recent years.

There have been substantial changes in Washington forest products production from 1982 to 1984.

- o Plywood production up 32 percent to 1.54 billion square feet, 3/8inch basis.
- o Softwood lumber production up 29 percent to 3.93 billion board feet.
- o Log export shipments up 7 percent cent to 2.31 billion board feet.
- o Chip export shipments down 35 percent to 0.25 million cords.
- o Pulpwood consumption up 23 percent to 6.24 million cords.

Consider 1984 production levels relative to production high levels experienced during the past ten years:

²Washington State Department of Natural Resources. A Review of Washington Forest Industries 1984.

³Production figures beyond this tabulation are based on survey results and not adjusted to Bureau of Census data.

- o Plywood production was 26 percent below 1978 output.
- o Softwood lumber production was 5.2 percent below the 1978 banner year production of 4.15 billion board feet.
- o Wood chip exports were about onethird of the volume exported in 1976.
- Pulpwood consumption was 1 percent below the 1980 consumption volume.

Despite increased product production during the 1982-84 period, employment4 in the lumber and wood products sector (SIC 24) only increased 2.5 percent, going from 39.4 to 40.4 thousand employees. Employment in the pulp and paper industry (SIC 26) was relatively static, declining slightly from 16.1 to thousand. Total employment in the Washington forest products industry has been trending downward, going from 71.7 thousand in 1977 to 56.4 thousand in 1984. This is approximately a 20 percent decline during this seven-year period. Nationally, Washington accounted for percent of the forest products employment in 1977 but only 4.1 percent in 1984. This is reflection of the interregional adjustments that are occurring as product mix and productivity adjustments are made.

Washington's total timber harvest (Figure 1) for 1984 was 5.8 billion board feet, down 4.7 percent from

the 1983 level, but 14 percent higher than the 1982 harvest level. 5 However, this harvest level is still considerably below the peak timber harvest of 7.8 billion board feet which occurred in 1973.

Total wood use by Washington mills is shown in Figure 2. In developing this graph, final units of production were converted to log equivalents, Scribner scale. pulp residue volume consumed does not represent additional timber harvest but is the use of byproducts primarily from the lumber and veneer and plywood sectors. The pole, post, and piling sector is not shown due to graphics limitations. This sector only consumed 20 million board feet (a fraction of 1 percent of all roundwood consumed). However, it is a sector which produces high value cialty products and is an important part of the Washington forest products industry.

⁴Employment and wage data reported to the Employment Security Department on quarterly tax reports by employers subject to the Washington Employment Security Act. Timber industry employment (SIC 24 and 26) does not include some segments, such as longshore workers or truckers, not entirely attributable to the timber industry.

⁵Washington State Department of Natural Resources. 1984 Timber Harvest Report.

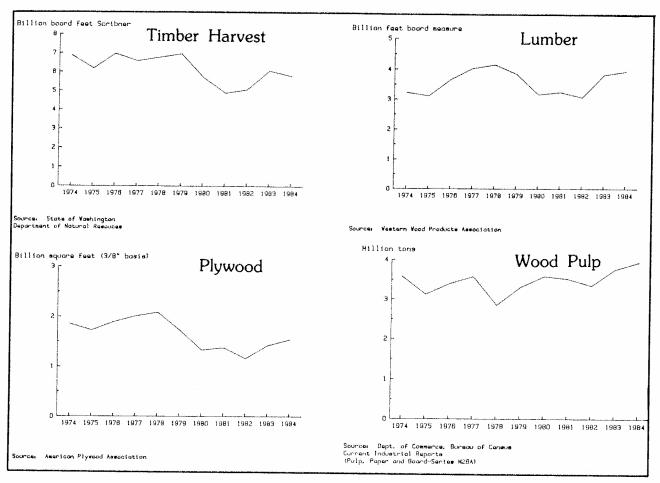
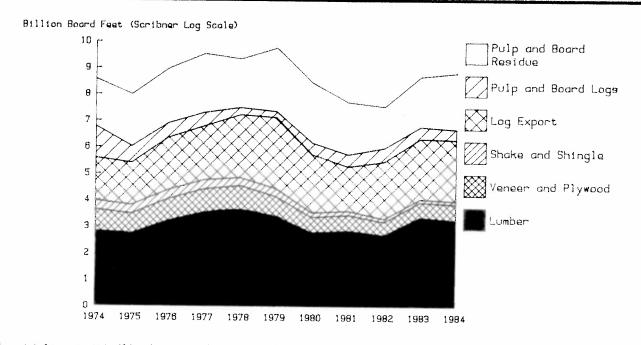
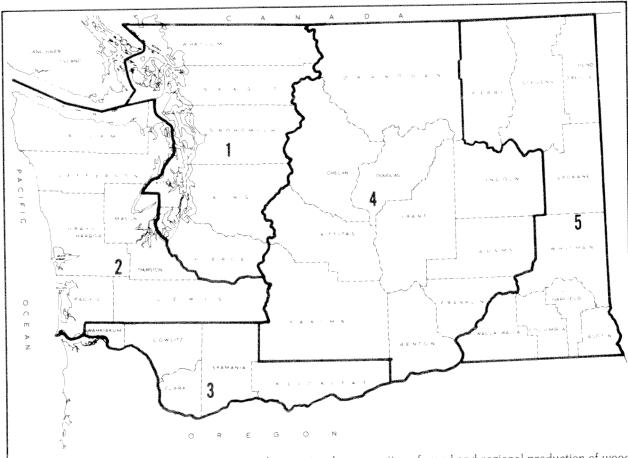


Figure 1 Output of major timber products for Washington



^{*} Pole, post and piling industry volume is not shown because it is less than 100 million board feet

Figure 2 Washington wood use by major forest industries (Converted to log equivalent of final product)



The five Economic Areas used in this report to show regional consumption of wood and regional production of wood products are: (1) Puget Sound, (2) Olympic Peninsula, (3) Lower Columbia, (4) Central Washington and (5) Inland Empire.

Figure 3 The five Economic Areas encompassing 39 counties

Industry Characteristics

The industry is divided into six segments in this report: lumber; veneer and plywood⁶; pulp; log export; shake and shingle; and pole, post and piling. Each sector is unique in its raw material requirements, production methods, and marketing procedures. Efforts have been made to present data for each industry sector independently

where data was sufficient to avoid disclosure of confidential information from individual operations. Counties which had fewer than three with combined operations were Economic areas are illustrated in Figure 3. In all cases data were grouped to maximize the geographic origin. identity of possible, these groupings Where have remained the same as those used in previous surveys to allow between Comparisons comparison. areas economic sectors and quickly be obtained by using Tables 1-10.

⁶The veneer and plywood industry consists mainly of mills producing softwood veneer and plywood. A few of these mills do use relatively small volumes of local hardwoods.

Wood Consumption

During 1984, Washington's primary forest products industries consumed about, 5.8 billion board feet of logs, 37 million board feet of other wood and 6.8 million tons of chips and wood residue. Sound logs comprised 94 percent of the total roundwood. Export accounted for 41 percent of sound log use; sawmills Utility and consumed 44 percent. cull logs accounted for 6 percent of total roundwood with the sawmill industry consuming 57 percent of these materials. Figure 4 illustrates the total log consumption by industry sector.

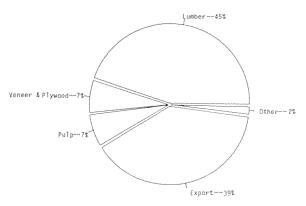


Figure 4 Log consumption by type of industry

The 6.8 million tons of chips and residues consumed by the pulp industry consisted of mill residues and material from roundwood chipping plants as well as other fiber residues. This volume is equivalent to 3.4 billion board feet of roundwood logs. Total wood consumption by the forest products industry can be expressed as the equivalent of 9.2 billion board feet (Scribner) for

1984. Most of the chips were byproducts of manufacturing operations.

The forest products industries relied on several ownerships for log supplies. Yet, over 55 percent of industry consumption (including log export) was met from forest industry lands. This, despite, the forest industry owning 26 percent of commercial forest lands in the It reflects, in part, the bidding for stumpage on public lands in 1979 and 1980. Owners of high bid sales found that it was not economical to log these sales Some sales defaulted because harvest was not profitable.

Ownership	Log suppl y
1940SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS	(Percent)
State	13
National Forest	18
Bureau of Land Management Other public	3
Total Public	34
Forest Own wood supply	24
Industry Other wood supply	31
Forest Own wood supply Other wood supply Farmer & Misc. private	Special Control of Con
Total private	66
All owners	100

^{*} Less than 0.5 percent.

Log flows measured from national forests:

National Forest	National Forest log flow
And Control Co	(Percent)
Gifford Pinchot	30
Mt. Baker-Snoqualmie	20
01ympic	18
Wenatchee	12
Colville	9
Other	of the state of th
All National Forests	100

⁷Scribner log rule was used to express board foot volume of logs. In some cases, it has been used to provide a board foot equivalent for chips, cordwood and other materials commonly measured in units, tons, pieces, etc.

Dependence for timber supply by ownership class is expressed by summing individual mills that obtain more than two-thirds of their logs from a single ownership class. Percents are taken as a share of 442 mills in the state.

Ownership	Mills two-thirds	
State	(Number)	(Percent)
National Forest	58	13.1
Bureau of Land Management	1	0.2
Other public	4	0.9
Total public	82	18.5
Forest Own wood supply	20	4.5
Industry Other wood supply	107	24.2
Farmer & Misc. private	63	14.3
Total private	190	43.0
All owners	272	61.5

At the state level, Douglas fir (46 percent) and hemlock (33 percent) were the dominant species consumed by the industry during 1984. In western Washington the three major species (in order of importance) were Douglas fir, hemlock and western red cedar. Douglas fir and ponderosa pine were the major species in eastern Washington.

Most segments of the industry use several species. However, four sectors tend to be species-specific. The pole, post and piling industry and the veneer and plywood industry are both 72 percent dependent on Douglas fir, the pulp industry's consumption of roundwood is 62 percent dependent on hemlock. The shake and shingle industry is almost exclusively dependent on western red cedar.

Washington supplied 95 percent of the industry's log consumption. Oregon contributed 4.2 percent, with most (83 percent of this volume) consumed in the Lower Columbia area. 9

⁸Western hemlock and mountain hemlock have been combined under the generic designation of hemlock in this report.

⁹Although Klickitat county lies east of the Cascades, it was included in the Lower Columbia area and is considered part of western Washington for report purposes.

Residues

Production

The sawmill; veneer and plywood; shake and shingle; pole, post and piling; and export segments of the industry generated 5.4 million tons of wood and bark residues in 1984. Of this amount, the sawmill, and veneer and plywood sectors provided 95 percent of the total. Of their share, 99 percent was used.

Of all residues produced, 98 percent were used. The pulp industry took 2.2 million tons (41 percent) while fuel use accounted for nearly 2.4 million tons (43 percent) of all residues.

Use

A significant achievement of the forest products industry is the relatively high use of wood residues. Use increased from 1982 to 1984 with 2 percent unused in 1984. This is an extremely impressive achievement considering the total volume of residues was more than 25 percent higher in 1984.

Wood residue disposition	Percent
Pulp & board Fuel	54 33
Other uses	11
Unused	2
877 and the first state of the	And and the Control of the Control o
All wood residue	100

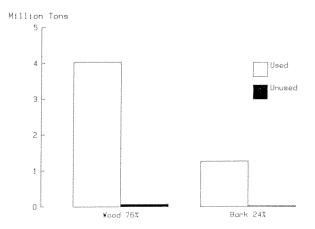
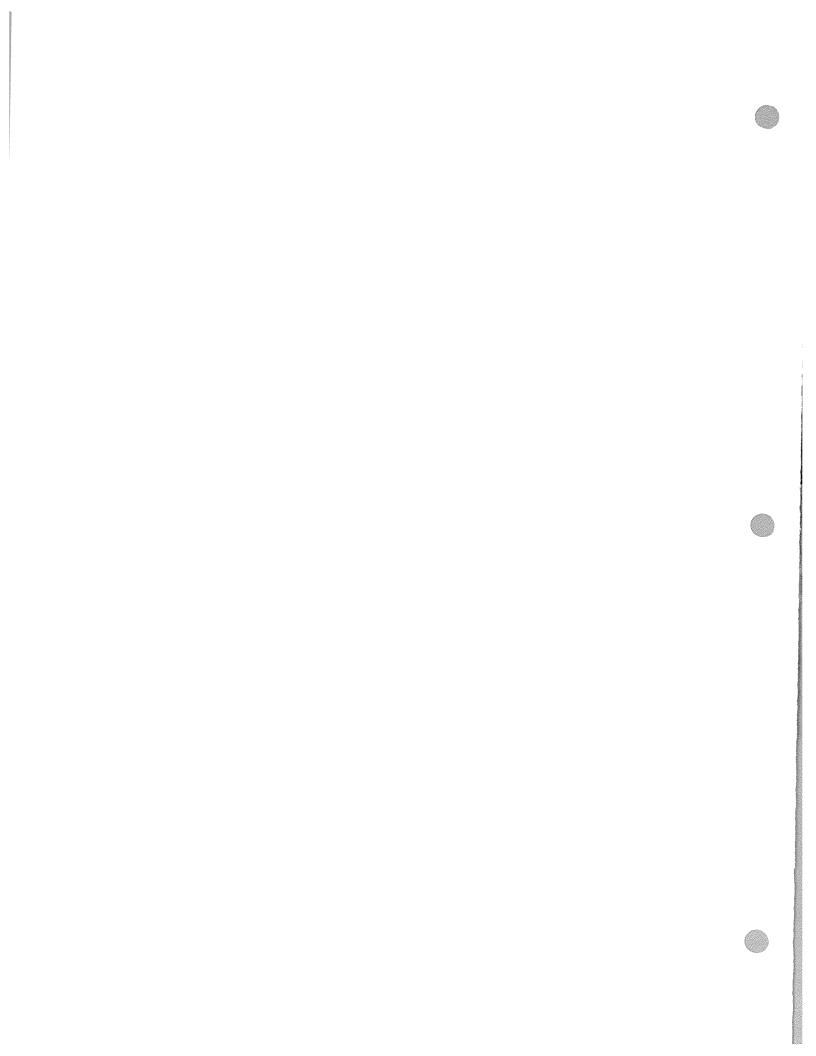


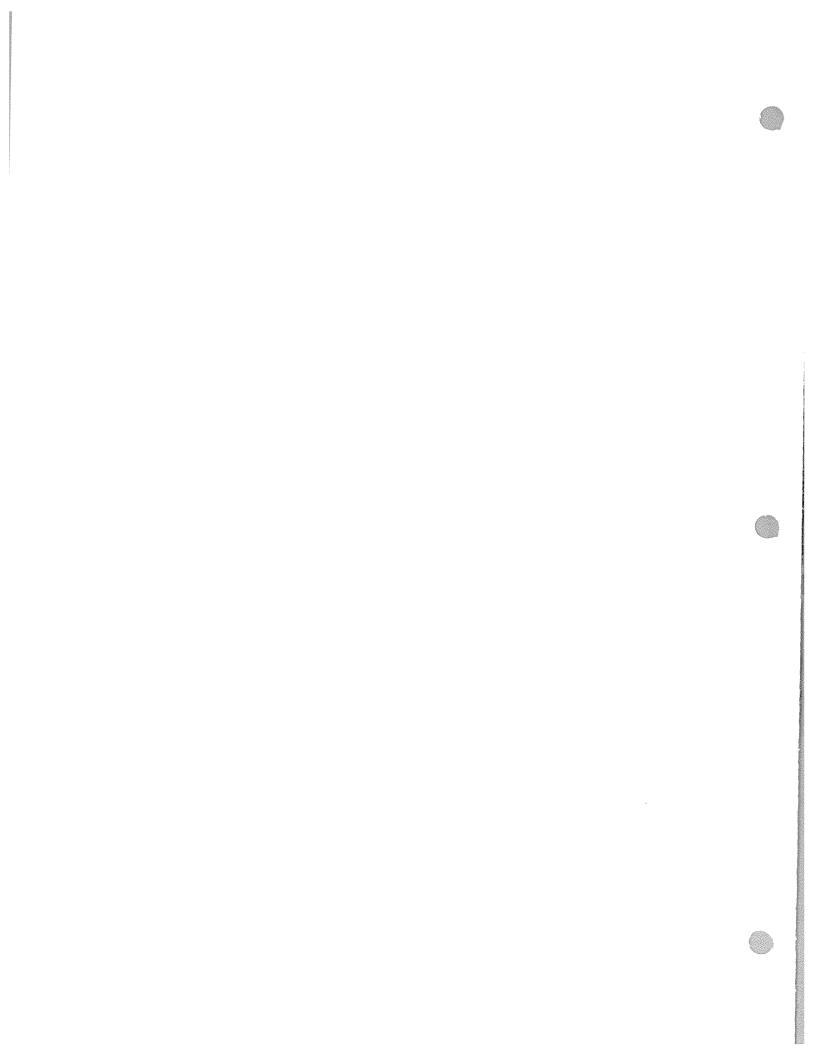
Figure 5 Relative and absolute residue volume

Wood residues are important to the pulp industry; wood volume increasing by nearly one-fourth from 1982 to 1984. This occurred despite a slight decline (56 to 54 percent) in wood residues going to the pulp industry.





Summary of 1984 Survey Results



Lumber Industry

Mill Characteristics

Primary Operation

Only sawmills that were primary processors of roundwood were included in this survey. However, data on nonroundwood consumed by these mills (peeler cores and cants) were also gathered and included (Table 18). 10

Size-Class

Sawmills are classified by sizeclass based on the maximum production for a single eight-hour shift.

Mill	Capacity per single	
size-class	8-hour shift	
enteriorinario mono anticologia de para de la compansión	(Mbf Lumber Tally) 120+	
B	80-119	
C	40-79	
D	less than 40	

The 150 sawmills operating in 1984 are 19 fewer than the mills reported in 1982. The distribution of all mills by economic area, and mill size-class county provided in Table 11. Since 1970, Snohomish county has had the most mills and continues to dominate with 18 mills. Stevens county Among the five follows with 14. economic areas, the Puget area leads with 47 mills. Olympic Peninsula is second with 44 Although the statewide number of mills has decreased since 1982, single-shift capacity risen to 12,445 million board feet representing an 11 percent crease.

Production Capacity

The number of class D capacity mills decreased by 17; mill capacity declined by 21 percent since 1982. Class C mills lost five mills, 18 percent decline; while capacity decreased 14 percent. Class B mills stayed the same: mill capacity declined 3 percent. Class A mills did not follow the trends of the smaller production capacity mills. Class A mills increased by 3 to 45 mills; mill capacity increased substantially by 26 percent. Class A mills account for nearly three-fourths of the single-shift production capaci-

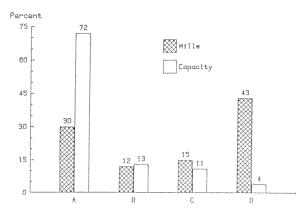


Figure 6 Percent of sawmills by size-

Equipment

Barkers and chippers were used by about 60 percent of the sawmills during 1984 (Table 13). The number of mills with planers actually increased since the 1982 survey. Nearly 70 percent of the mills had planner capacity in 1984. There were 56 mills with kilns, that is 37 percent of all mills. However, over 80 percent of the class A and class B mills have kilns. a concentration of exists in the mill classes having the bulk of the lumber production. Seven mills still have burners and tend to be lower-capacity mills. Only one class A mill still has a burner. The percent of mills

 $^{^{10}}$ Tables cited in this section are in Appendix D, Report Data.

having varied equipment is shown below:

			Mi	ll size-	class
Equipment	A	В	С	D	All
			rcent)		
Planer	89	83	91	41	68
Chipper	96	100	100	13	61
Barker	100	89	100	8	59
Kiln	60	72	43	9	37
Burner	2	0	17	3	5

Information on size and type of headrig is presented in Table 15 of Appendix D. Band saws are the most numerous with 80. These saws account for 77 percent of lumber produced by type of headrig (Table 35). Next were 14 chipping saws with 10 percent, followed by Scragg saws with 6 percent and circular saws with 5 percent. Band saws accounted for 76 percent of class A production, 81 percent of class B, 87 percent of class D (Table 34).

Site and Ownership Tenure

Site and ownership tenure by mill size-class are cross-tabulated in Table 16. The data shows that size-class D mills have shorter site occupancy than larger mills. This is partially because some size-class D mills, being portable, are moved from site to site. However, nearly 60 percent of the class D mills have been at the same location for over 10 years. This compares with the A, B and C class mills which have had at least 80 percent of the mills at the same location for over ten years.

Over 10 Years

Mill size-class	Under present ownership	At present site	
	(Percent)		
A	71	80	
8	61	83	
C	52	83	
D	55	59	
All mills	60	72	

Operating Days

The normal five-day work week provides about 250 operating days per year. In 1984, the statewide average was 167 days. However, the operating days ranged from a low of 66 days for size-class D mills in the Inland Empire to a high of 246 days for size-class A in the Inland Empire area (Table 17). Statewide, the A and B class mills operated an average of 210 days.

Mill size-class	Average days of operation 1984	Percent change from 1982
	210	+13
В	210	+ 7
C	203	+10
D	112	- 1 - 1
All mills	167	+ 9

Wood Consumption

Raw Materials

This survey only includes mills that consume roundwood logs. Resaw and planing mills were not included. However, 19.6 million board feet of wood consumed by the mills surveyed were not in log form but were either from peeler cores or cants. Of the logs consumed, 93 percent were sound and 7 percent were utility grade (Table 18).

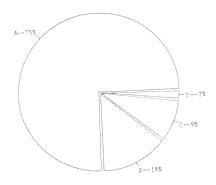


Figure 7 Sawmill log consumption by mill size-class

Class A mills have increased considerably in importance since 1982 (Figure 7). From 1982 to 1984 the percentage of roundwood volume consumed by class A mills has increased from 50 to nearly 75 percent.

Roundwood Age

Nearly two-thirds of log volume consumed by sawmills during 1984 were classified young growth timber (less than 100 years old). This is a continuation of the young growth trend which was interrupted in 1980 because of timber salvage after the volcanic eruption of Mount St. Helens. In 1984, only the central Washington ecomomic area had more old growth volume harvested than young growth.

Mill size-class*

Economic Area	Α	B&C	D	All mills
Deviliabilities of the manufacture of the following and the service of the servic	(You	ng grov		rcent)
Puget Sound	73	67	97	73
Olympic Peninsula	61	76	71	64
Lower Columbia	68	55	34	66
Central Washington	50	46*	18*	48
Inland Empire	67	43	70	53
Total state	66	58*	70*	64

^{*}refer to Table 19 for size-class combinations.

Consumption by timber age, economic area, county and mill size-class is provided in Tables 19 and 20.

Ownership

Sawmills relied on public timberlands for 43 percent of their log volume (Table 22).

Ownership	Log supply
State National Forest Bureau of Land Management Other public	(Percent) 9 30 * 4
Total public Forest Own wood supply Industry Other wood supply Farmer & Misc. private	43 33 14 10
Total private	**************************************
All owners	100

^{*} Less than 0.5 percent

A breakdown of ownership sources by mill size-class shows size-class B mills depended on public timber acquiring over half their log volume from public lands. Class D mills acquired half their log volume from farmer and miscellaneous private ownerships.

	Forest i	ndustry	
Mill size-class*	Own wood supply	Other wood supply	All public
Microsoft Address (Microsoft Microsoft Microsoft American Microsoft Anni Anthropology (Microsoft Microsoft	***************************************	(Percent	***************************************
A	38	15	42
В	19	13	51
C	20	11	41
D	<.5	28	23
All mills	33	14	43

^{*}Refer to Table 22 for size-class combinations.

Public timberlands supplied Central Washington, Inland Empire and Olympic Peninsula area sawmills with 72, 51 and 47 percent of their log volumes respectively (Table 22). Comparable figures for Puget Sound and Lower Columbia area mills are 39 and 23 percent.

Eighty-seven percent of sawmills more than two-thirds dependent on farmer and miscellaneous private ownerships are size-class D mills. Dependency data are useful in evaluating the effects of timber supply policies on the industry (Table 24).

Ownership	Mills more than two-thirds dependent on a single type of ownership		
militaranim-reprodupta komunika noj-mujuh inkonskus sokoobo esi		(Perce	nt)
State		1	
National Forest		21	
Bureau of Land Management		day side	
Other public		Power	
Total public			23
Forest Own wood		6	
Industry Other woo		9	
Farmer & Misc. private		36	
Total private	64-4-4		51
All owners		- Chronic de Balleria (Chronic Chronic	74

Species

In 1984, sawmills used 48 percent Douglas fir and 23 percent hemlock logs (Table 25). Figure 8 illustrates species variation by economic area.

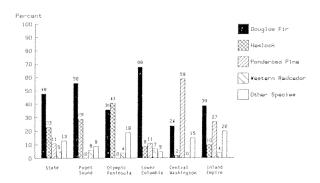


Figure 8 Sawmill log consumption by species and area

The two leading species consumed in each economic area were:

Puget Sound - Douglas fir, hemlock

Olympic - hemlock, Douglas fir Lower Columbia - Douglas fir, ponderosa pine

Central Washington - ponderosa pine, Douglas fir

Inland Empire - Douglas fir,
 ponderosa pine

Minimum Log Diameter

Connerio Area

One-third of the mills in the state accepted small diameter logs under six inches in 1984. A slight decline occurred after 1982. The Olympic Peninsula was the only economic area to increase the percentage of mills accepting small diameter logs.

Mills accepting logs with small-end diameters under 6 inches

ECONOMIC Area	O HIGHES
ABM Physical and an all and a company and a	(Percent)
Puget Sound	30
Olympic Peninsula	36
Lower Columbia	18
Central Washington	36
Inland Empire	42
Total state	33

Imports

Washington timberlands supplied over 95 percent of the logs consumed; slightly over 4 percent came from Oregon. The remainder came mainly from British Columbia and Idaho (Table 3).

Production

Lumber

Sawmills in Washington produced 3.7 billion board feet of lumber during 1984. This was a 30 percent increase over the 1982 production level. Lumber produced by the 150 primary sawmills surveyed was 22 percent rough and 53 percent green (Table 33).

Economic Area	Lumber production
400-months in the contract of	(Percent)
Puget Sound Olympic Peninsula Lower Columbia Central Washington Inland Empire	30 27 21 9
Total state	100

Residues

Lumber production of 3.7 billion board feet resulted in 4.3 million tons of residue (Table 30). Bark accounted for 22 percent of the total while wood was the balance. Wood residues are classified in three categories: coarse (slabs, edgings, trim and spur ends); medium (shavings); and fine (sawdust) shown in Table 28. These wood residues made up 3.4 million tons of the total, or 0.9 tons for every 1,000 board feet of lumber produced.

Residue uses include raw material for the pulp industry, fuel for industry and community, animal bedding, gardening, landscaping and mulch. These and other uses consumed 98 percent of all residues produced by sawmills (Figure 9).

Unused residue was generally burned (but not as a source of fuel), left in the woods (by portable mills), or dumped near the mill site.

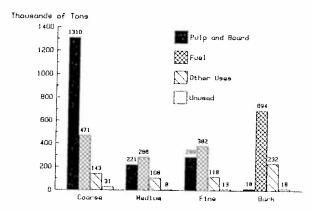


Figure 9 Type and disposition of sawmill residues

	Wood residue use			
Mill size-class	Pulp & board	Fuel	Other uses	Unused
		(Per	cent)	
A	59	32	8	1
В	33	44	23	<.5
C*	44	39	15	2
D*	22	21	35	21
All mills	54	34	11	2

^{*}Class D includes Class C for Central Washington

	Ba	rk resi	due use	
Mill size-class	Pulp & board	Fuel	Other uses	Unused
		(Per	cent)	
A	2	76	20	2
В		59	41	<.5
C*	4	66	28	2
D*	8	31	30	31
All mills	2	72	24	2

^{*}Class D includes Class C for Central Washington

Veneer and Plywood Industry

Mill Characteristics

Facilities

The 28 veneer and plywood mills surveyed were distributed throughout the five economic areas and in 18 of the 39 counties. All but five mills were located in western Washington (Table 36). Grays Harbor county had a total of four mills. The Olympic Peninsula led with 12 mills.

Production Capacity

Table 37 shows the production capacity per shift for each type of mill by county. Compared with 1982 data. total eight-hour shift capacity for the industry declined about 2 percent. However, layup capacity 1 percent was about higher.

Mill type	Average shift capacity per mill* Msf 3/8" basis
Puget Sound	165
Olympic Peninsula	163
Lower Columbia	144
Central Washington and Inland Empire ¹	147
Total state	158

^{*}Excludes veneer capacity within veneer and layup plants, but includes capacities from veneer-only and lay-up only operations.

Veneer-only mills had a lower average shift capacity than other types of mills.

Mill type	Average shift capacity Msf 3/8" basis	Number of mills
Veneer & layup*	135	13
Veneer-only	109	8
Layup-only	258	7
All types	158	28

^{*}Excludes veneer capacity within a veneer and layup plant

Equipment

Tables 38 and 39 present statistics on log use relative to lathe diameter limits and size of cores produced. About one-third of the mills could handle logs 60 inches or larger in diameter. One mill could peel to a 5-inch core diameter while 5 mills produced cores that fell in the 11+ inches category. The other 15 mills with peeling operations are in the 6- to 10-inch core diameter range.

Nearly 40 percent of the core material was used as a source of chips for the pulp industry and most of the remainder for other purposes such as lumber, fuel and posts. Nineteen of the mills used veneer chippers during 1984 while only two mills used a burner (Table 40).

Site and Ownership Tenure

All but one mill have been at their present site and 82 percent under the same ownership for more than ten years (Table 41).

Operating Days

Veneer-only mills operated 151 days on the average followed by veneer and layup operating 241 days and layup-only averaging 255 days. Averages for each mill type by area are shown in Table 42.

Wood Consumption

Raw Material

The veneer and plywood industry consumed 392 million board feet of logs during 1984. Over one-third of consumption was in eastern Washington. Utility-grade logs accounted for 2 percent of the statewide log volume (Table 2). Utility log consumption by area varied from none in the Puget Sound area to 5 percent in the lower Columbia area.

¹Combined to avoid disclosure

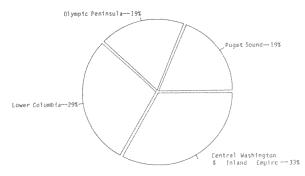


Figure 10 Veneer and plywood log consumption by economic area

Roundwood Age

Timber older than 100 years comprised nearly 63 percent of logs used. Use of old growth varied from 73 percent in the Puget Sound area to 46 percent in the Olympic Peninsula area (Table 10).

Ownership

Public lands were the source of 55 percent of logs consumed by the industry. National forest lands were the greatest single source with 42 percent (Table 7). The forest industry lands contributed nearly 39 percent of wood consumed. These two sources provided over 80 percent of the volume consumed by this sector.

Ownership	Logs supplied
MATERIAL AND PROMETA AND PROMETA AND PROMETA AND AND AND AND AND AND AND AND AND AN	(Percent)
State National Forest Bureau of Land Management Other public	8 42 <.5 5
Total public Forest Own wood supply Industry Other wood supply Farmer & Misc. private	55 37 2 6
Total private	45
All owners	100

The national forests provided over 56 percent of the volume consumed in the Lower Columbia area. In eastern

Washington, forest industry provided 37 percent; national forests provvided 35 percent.

	Source of logs		
Economic Area	National forest lands	Forest industry own wood supply	
. Задабов в в в в в в в в в в в в в в в в в в	(Percent)		
Puget Sound	38	45	
Olympic Peninsula	35	28	
Lower Columbia Central Washington	57	38	
& Inland Empire	35	37	
Total state	42	37	

Table 6 shows dependency of individual mills on each ownership class. Seven mills were at least two-thirds dependent on national forest lands; two mills were similarly dependent on private lands.

Species

Seventy-two percent of logs used by the industry were Douglas fir (Table 8). Second was hemlock with 13 percent. The Lower Columbia area used 72 percent Douglas fir and 20 percent hemlock. In eastern Washington, Douglas fir was the most widely used species accounting for 83 percent of consumption. True firs followed with 12 percent. The Olympic Peninsula was the only area to use western red cedar (9 percent consumption).

Imports

Two economic areas acquired logs from outside the state, accounting for 1.6 percent of the industry's log consumption. The Lower Columbia area imported the greater volume, accounting for 5 percent of its log consumption (Table 3).

Veneer

In addition to logs, the industry consumed 335,734,000 square feet of 3/8-inch veneer more than it pro-

duced for sale or transfer during 1984. Converted to Scribner log scale (at 2.5 square feet per board foot), this equals about 129 million board feet or 33 percent of the industry's total wood consumption. This veneer originated from inventory reductions or was imported from out-of-state.

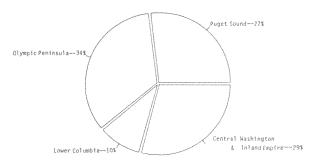


Figure 11 Plywood production by economic area

Production

Veneer and Plywood

During 1984, individual mills produced 1,561,727,000 square feet (3/8-inch basis) of plywood (Table 45). They produced 334,788,000 square feet (3/8-inch basis) of veneer sold or transferred to other mills.

Residues

Residues that come from the manufacture of veneer and plywood amounted to 0.83 million tons; 99.8 percent of this volume was productively used (Table 9).

Wood residue accounted for 80 percent of all residues; bark the remaining 20 percent. Three classifications of wood residues were identified: coarse (log trim, cores, round-up, veneer clip, spurtrim); medium (panel trim, reject veneer); and fine (sander dust) (Table 44).

Residue use

Residue type	Pulp & board	Fuel	Other uses	Unused
	ntermone (All other) William All William (William and All other)	(Perce	nt)	
Cores Coarse & medium	41	<.5	59	out the
(less cores)	65	28	7	<.5
Fine	750A *GRE	93	7	instructiv
All wood	60	30	10	<.5
Bark	noy was	75	25	<.5
All residue	49	39	12	<.5

Production and disposition of residues by economic area is presented in Tables 9 and 44.

Pulp Industry

Mill Characteristics

Facilities

Each operation at a multiple plant facility is considered a separate mill. Identified were 20 mills: 5 sulfite, 7 sulfate, 4 groundwood and 4 semichemical. No board mills operated in 1984. Operations were located in ten counties. Cowlitz county lead with 5 mills. The leading area was the Lower Columbia with 7 mills, followed by Puget Sound with 6 mills (Table 46).

Production Capacity

Daily pulp production capacity was 12,019 tons, 3 percent below the 1982 daily capacity. Of the 20 pulp mills, 12 were either sulfite or sulfate (60 percent). They accounted for 74 percent of the daily capacity (Table 47). Over half the daily pulping capacity is located in the Lower Columbia economic area.

Economic Area	Percent of pulp capacity
Puget Sound	tinationinatiististiinimekaaneteihiteinemekaanineteihiteinemekaanineteihiteinemekaanineteihiteinemekaanineteih
Olympic Peninsula	18
Lower Columbia Inland Empire	52 10
Till Gild Cittle C	T.C.
Total state	100

Site and Ownership Tenure

Site occupancy by 19 of the 20 mills has been for over ten years. For 18 mills it was longer than 20 years (Table 48). Eighteen mills were in present ownership for over ten years, and 14 of the mills have been held by a single owner for over 20 years.

Operating Days

The average number of operating days per year for pulp mills increased between 1982 and 1984 from 314 to 347 (Table 49).

Economic Area	Average number of operating days
Addition of the resident and the control of the con	Pulp
Puget Sound	344
Olympic Peninsula	340
Lower Columbia	352
Inland Empire	349
Total state	347

Wood Consumption

Raw Material

The industry consumed 393 million board feet of roundwood and 6.8 million bone dry tons of chips, sawshavings and waste paper (Table 51). In total, this equals approximately 7.6 million bone dry tons of wood. Figure 12 shows percent roundwood consumption by economic area. Ninety percent of the material consumed by industry was in the form of chips and other residues with the balance roundwood. The percent consumption in each area was:

Economic Area	Chips from mill residue	Round- wood
49-60 linnau drywnig Aret (CO) de CO lidda an hennen annwy efedd ei de fedd ei dde ei	(Pe	rcent)
Puget Sound	44	8
Olympic Peninsula	28	28
Lower Columbia &		
Inland Empire*	58	4
	*PERMITTAL INCIDENCE	***************************************
Total state	48	10
Million bone		
dry tons	3.6	0.8
4.3 301.3	3.0	0.0

^{*}Combined to avoid disclosure

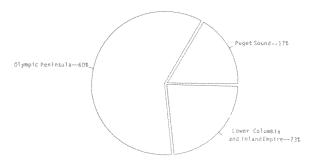


Figure 12 Percent of roundwood consumed by economic area

The pulp industry became the second largest user of utility grade (cull) logs, accounting for slightly over 30 percent of all utility log volume consumed in 1984 (Table 2). Within this industry, utility logs accounted for 26 percent of roundwood consumed (Table 51). This is a substantial change from 1982 when utility logs accounted for over 80 percent of roundwood consumed.

Roundwood Age

Table 10 shows roundwood consumption by age class for each economic area. For the pulp industry statewide, old growth timber accounted for 42 percent of the roundwood consumed, declining from 50 percent in 1982. This is a continuation of the trend to switching to young growth as an input to the pulp industry. This is 8 percent lower than in 1982.

Ownership

Ownership	Log supply
WWW.SIMMUSSMontesalmined like.	(Percent)
State National Forest Bureau of Land Management Other Public	12 21 0 0
Total public Forest Own wood supply Industry Other wood supply Farmer & Misc. private	33 36 29 2
Total private	67
All Owners	100

Private timber holdings supplied two-thirds of the total roundwood consumed (Table 7). Slightly over one-third of roundwood came from company-owned lands for their own pulp mills.

One mill was more than two-thirds dependent on public timberlands, and one mill was more than two-thirds dependent on private timberlands for logs they used (Table 6).

Species

Hemlock accounted for 62 percent of the industry's roundwood log consumption. The greatest volume of hemlock was harvested in the Olympic Peninsula area (Table 52).

Roundwood species consumed	Percent
SEEVERAL Annumentation from contract and company company company of information and informatio	62
Heml ock	O L
Hardwoods	20
True firs	10
Douglas fir	4
Spruce	1
Other softwoods	3
disinfunction defined and defining a particular property and a particular p	
Total	100

Origin

Ninety-one percent of roundwood consumed by the pulp industry came from within the state. The remainder was imported with 8 percent from Oregon and 1 percent from British Columbia. Mills in the Lower Columbia area imported 35 percent of their logs from Oregon (Table 3).

Residues

Chips constituted the major sources of raw material for the industry (Table 51). Chips accounted for 85 percent of the wood consumption with roundwood chipping mills providing 37 percent of the wood input.

Residue type	Total volume
\$69966400A00A00A00H000aua0Courachause.courachause.	(Percent)
Chips	
Residue	48
Roundwood	38
Sawdust & shavings	4
Wastepaper	<.5
All types	90
Logs	10
Total	100

Shake and Shingle Industry

Mill Characteristics

During 1984, 131 shake, shingle, and hip and ridge mills operated; a decline of 33 percent from 1982. Of the total, 60 percent (79) were located in the Olympic Peninsula. Of these, nearly 42 percent were in Grays Harbor county (Table 54).

The single-shift capacity of shake and shingle industry mills operating in 1984 was 11,639 squares, or nearly 1.2 million board feet Scribner log scale; a single shift capacity decline of nearly 30 percent.

Forty-seven mills used burners to dispose of wood residues. In contrast, 15 mills used chippers (Table 55).

Nine percent of the mills have been operating at their present site for five years or less, while 21 percent have been under present ownership for five years or less. Sixty percent of the mills operating in 1984 have been in their present location more than ten years, but only 47 percent have been under present ownership for more than ten years (Table 56).

The number of mill-operation days averaged 166 during 1984 (Table 54), a 15 percent increase from the average 144 days in 1982.

Wood Consumption

Industry consumption during 1984 totaled 118 million board feet. including logs and the equivalent of 17 million board feet in blocks, bolts and other material (Table Figure 13 shows roundwood consumption by economic Figure 13 shows roundwood consumption by economic area. Of the total volume, sound logs accounted for 78 percent; utility grade (cull logs) accounted for 7 percent and other materials accounted for 15 percent.

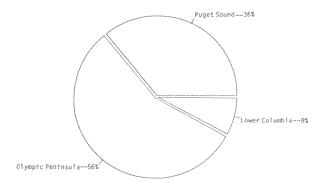


Figure 13 Shake and shingle roundwood consumption by economic area

Western red cedar is the most important species in Washington suitable for manufactured shakes and shingles. In the 1984 survey, western red cedar was used exclusively (Table 8). Product specifications further limit consumption. Ninetyfour percent of the materials used were old growth (Table 10).

Because of the species dependency, the industry obtained its log supply from many ownership classes (Table 58). Although old growth is relatively limited on forest industry lands, these lands were the source of 40 percent of the timber.

Ownership	Log supply
	(Percent)
State National Forest Bureau of Land Management Other public	14 30 <.5 5
Total public Forest Own wood supply Industry Other wood supply Farmer & Misc. private	3 37 11
Total private	51
All owners	100

During 1984, about 63 percent of the individual mills obtained more than two-thirds of their log supply from a single ownership class: 30 mills from public sources, 52 from private sources (Table 6).

Ninety-seven percent of the industry's log consumption came from Washington. Over 50 percent of the rest came from Idaho, over 40 percent from British Columbia and nominal volumes from Oregon and other sources (Table 3).

Production and Residues

Production amounted to 1,301,098 squares: 67 percent were shakes, 29 percent were shingles and 4 percent were hip, ridge, shims and others (Table 62). This production resulted in 107,199 bone dry tons of residues, composed of 73 percent wood and 27 percent bark (Table 59). When use of residues is considered, only 59 percent was used: 60 percent of wood residues and 59 percent of bark. The Lower Columbia area mills are a notable exception to the state average with 99 percent of residues being used.

Wood residues are divided into two size classes. Coarse materials ac-

counted for 37 percent of the total and fine materials accounted for 63 percent (Table 60). However, 58 percent of coarse wood residues and 60 percent of the fine wood residues were used.

For many mills it is not economical to recover residues. Low product volume of the mill operation probably is the major factor. Also, some residues produced by this sector are left in the woods rather than produced at mill sites. This occurs when mills use blocks, bolts or boards as a raw material, instead of logs.

Use	Coarse	ype & distr Fine	' Bark
- Commence of the Commence of		(Percent)	
Pulp & board	5	5	3
Fuel	44	47	52
Other	9	9	4
Unused	42	39	41
	MANUFACTURE PROPERTY.		***************************************
A11	100	100	100

Pole, Post and Piling Industry

Industry Characteristics

The smallest segment of the forest products industry (11 mills) had 73 percent of its operations located in western Washington.

The reported annual peeling capacity for 1984 was 35 million board feet, coupled with 39 million board feet treatment capacity (Table 63). This industry rarely uses the board foot unit of measure. However, data for this report have been converted to board foot units for comparison.

Ten of 11 operations had a peeler for preparing products (Table 65). Of the 11 mills, 8 had facilities for treating wood. Mills used pentachlorophenol, cresote, CCA or Osmose K-33.

From 1982 to 1984 the pole, post and piling industry declined by two operations. This 15 percent decline resulted in a 35 percent decrease in peeling capacity. Of the 1984 mills, 91 percent of the operations have been under the same ownership more than ten years (Table 64).

The industry averaged 142 days of peeling operation. Treatment facilities operated an average of 187 days(Table 63).

Wood Consumption

Total wood consumption during 1984 was 20,389,000 board feet. Figure 14 shows wood consumption by economic area. Sound logs accounted for 91 percent of all log consumption (Table 2). Post volume has been classified as utility logs and accounted for 9 percent of total volume.

The pole, post and piling sector is oriented primarily to young growth timber. In 1984, 99 percent of logs consumed were classified as young growth (Table 10).

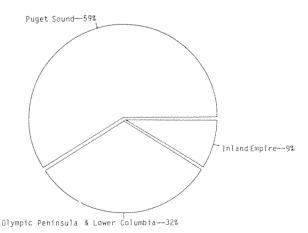


Figure 14 Pole, post and piling wood consumption by economic area

Five of 11 mills were over twothirds dependent on a single-owner class for log supplies (Table 6). This included two operations depending on public timber, two operations depending on forest industry timber and one operation depending on other private timber.

Ownership	Log supply
(Metallical Provincials of Control Con	(Percent)
State National Forest Other public	9 6 7
Total public Forest Own wood supply Industry Other wood supply Farmer & Misc. private	18 31 29
Total private	78
All owners	100

Douglas fir and western red cedar, used principally for poles and piling, accounted for 91 percent of the total log consumption (Table 8). These two species are well suited for pole and piling uses because of their strength and durability.

Washington timberlands supplied 87 percent of the industry's needs with nearly 12 percent coming from Oregon. The remaining volume came from British Columbia and "other" origin categories (Table 3).

Log Export Industry

Industry Characteristics

The 102 log export operations reported in this survey represent trading companies, log brokers or other firms that ship logs from nine public port areas in the state. Each port used by a firm is considered a separate operation. Fifty operations were located in the Olympic Peninsula area followed by the Puget Sound area with 36 (Table 68).

Sixty-two percent of the operations have used the present site for over five years (Table 69).

Ports handle a variety of materials. Because of this, the average days of operation and production capacity are not meaningful statistics when evaluating the log export industry.

Log Consumption

Following sawmills, export shipments totaled 2.3 billion board feet in 1984, making the export industry the second largest log consumer in Washington (Table 3). The export industry's log consumption is considered equal to log export shipments for the year 1984. Figure 15 shows log exports by economic area.

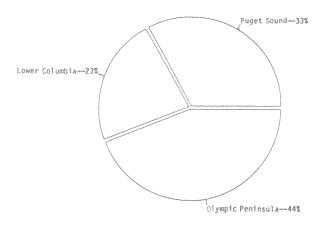


Figure 15 Log export by economic area

Most logs exported were sound. Less than 1 percent of export volume was utility grade logs (Table 2).

Ownership	Log supply
Millifed Bird Fills American Ada physiolet Magazine Magazine Magazine American Ameri	(Percent)
State National Forest	20 *
Other public	3
Total public	23
Forest Industry	64 _{6.2.}
Farmer & Misc. private	13
Total private	77
All owners	100

Sixty-one percent of the operations were more than two-thirds dependent for supplies on a single ownership class. Fifty-four of the 102 operations were more than two-thirds dependent on forest industry lands and one on other private lands (Table 6).

Log export operations consumed more hemlock and spruce than any other industry (Table 8). Of logs exported, Douglas fir ranked first with over 48 percent of the volume, followed by hemlock with nearly 45 percent. Western red cedar was third with nearly 3 percent of the export volume.

Species	Log supply
-dim-delicitati di distributa delica ne accesso accusto accesso que de consequence de consequenc	(Percent)
Douglas fir Hemlock True firs Western redcedar Spruce All others	48 45 2 2 2 1
Total all species	100

Washington timberlands supplied 95 percent of logs exported from the state (Table 3). Those logs originating in Oregon and British Columbia were primarily moved through the Lower Columbia and Puget Sound areas, respectively.

Hardwood Industry

NOTE: The following was extracted from the data in previous sections and is included here for your convenience.

Hardwood processing is another segment of the Washington wood products industry. Many different species including alder, maple and cottonwood are processed by sawmills, veneer and plywood mills, and pulp mills. Finished products are shipped throughout the United States for use in furniture, other specialty products and pulp. The market for hardwood chips is also growing in Washington as well as abroad.

Industry Characteristics

In 1984, there were 11 sawmills, one veneer and plywood operation, and one pulp mill using hardwoods for over 90 percent of their log or chip consumption. Mills using hardwood were located in the following counties:

	Sawm	ills	Venee Plyw		Pul	p
			Number o			
County	Under 90%	90%	Under 90%	90% +	Under 90%	90%
Clark	1	56 50	967 -995 D00000000000000000000000000000000000	= ~		MARKATER TO THE TOTAL THE TOTAL TO THE TOTAL TOTAL TO THE
Cowlitz	1	atur mar	40 44	***	1	1
Grays Harbor	40-44	1	40.00	100 444	and the same of th	100' 120"
King	que sen	***	1	ion an	age and	66 -00
Lewis	46.40	3	445 444	not not	AND MADE	40.40
Mason	207 -005	1	W6 444	***	44.44	160° 400
Pacific	1	1	***	***	MF 100.	40.40
Pierce	1	Mile sale	100 000	see an	4	200 min
Skagit	40-40-	1	100.000	W 20"	GAN ASA	49' 44
Snohomish	100 MA	3	** ***	1	1	***
Walla Walla	464 - 464	1	100 HM	No. 100	462 444-	
Whatcom	1	alle site	10	Adje 16A	this see	466 1407
Total	5	11	2	1	4	1

Wood Consumption

Hardwood log consumption by mills in 1984 was 243,483,000 board feet

Scribner (Table 8). This is a 33 percent increase in volume from 1982. In addition, 293,540 bone dry tons of hardwood chips from roundwood were consumed by the pulp industry. This was an increase in chip volume of nearly four times from 1982 to 1984.

Industry	Hardwood log consumption
Girmon contacts com dat alpha population, p. s. girmon.	(Percent)
Sawmills Veneer & Plywood	63 4
Pulp Post, Pole & Piling Export	31 2
Total industry	100

In 1984, 153,372,000 board feet of hardwoods were consumed by sawmills. This was almost 6 percent of their all-species consumption and was a slight volume increase over 1982. Of this amount, 98 percent of hardwood volume consumed was by those sawmills more than two-thirds dependent on hardwoods. Nearly 55 percent of these mills were size-class D mills. However, size-class B mills consumed 64 percent of the hardwood volume (Table 25).

The veneer and plywood industry consumed 9,970,000 board feet of western hardwoods or 2.5 percent of their total log consumption (Table 8). This was 10 percent more hardwood volume than consumed in 1982.

The pulp industry used 76,433,000 board feet of hardwood logs in 1984 (nearly 20 percent of their allspecies log consumption). This was a three-fold increase from their 1982 hardwood log consumption. In addition, this industry consumed 2.8 million bone dry tons of chips from hardwood roundwood (Table 52). This chip consumption represented a doubling of roundwood chipping plant consumption since 1982. Apparently the pulp industry is buying chips in the open market or by transfer from another corporate division rather than buying logs and then chipping them as part of the pulp mill operation.

Hardwood Supply

Snohomish, Lewis and Cowlitz counties accounted for over half the hardwood supplied to sawmills 90 percent-plus dependent upon hardwoods in 1984. Of the 149,922,000 board feet consumed by these mills in 1984, the following counties (based on a proportional distribution) supplied:

County of origin	Percent
the second secon	**************************************
Snohomish	21
Lewis	19
Cowlitz	13
Skagit	10
Grays Harbor	9
Pacific	8
Thurston	4
King	4
Clallam	1
Total	100

Ownership

The hardwood consumed by sawmills 90 percent-plus dependent on hardwoods came largely from private ownerships. Data show that hardwood mills tend to be very specialized. This is reflected by the fact that 31 percent of the volume came from other forest industry wood supply and 27 percent from farmer and miscellaneous private ownerships.

Sawmill hardwood log consumption mills 90%+ dependent on hardwoods

Ownership	Volume MBF	Log supply
etterheteriorium feler dem generale felerheteriorium annimus pa	(Scribner)	(Percent)
State	36,382	24
National Forest	21	<.5
Other public	4,732	3
Total public	41,135	27
Forest Own wood supply	22,204	15
Industry Other wood supply	46,255	31
Farmer & Misc. private	40,328	27
Total private	108,787	73
All owners	149,922	100

Hardwood Harvest

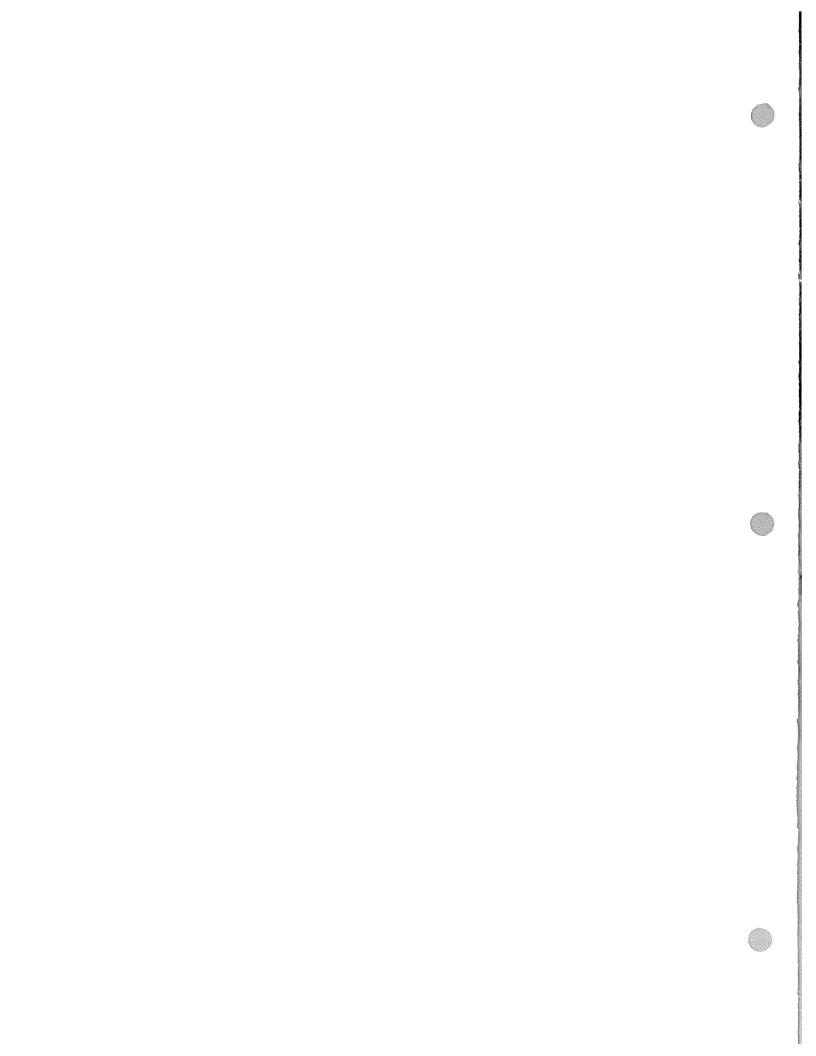
The Department of Natural Resources "Timber Harvest Report" lists the following hardwood harvest information for 1984.

Species	1984 Harvest	
With Clark all more and the forth to the property of the Clark and the C	Mbf, Scribner	(Percent)
Red Alder Other species Cull & utility	131,632 67,246 105,707	43 22 35
Total	304,585	100

Of the above total, 592,000 board feet were harvested in eastern Washington. This is less than 0.1 percent of the statewide hardwood harvest.



Appendix A



Measurement Units

Scribner is the only board foot scale used in this report, but some mills use more than one scale. Others use cubic scale, although there appears to be no strong shift to using cubic measure.

Lumber, veneer and plywood mills relied almost entirely on Scribner scale. Pulp and board mills used tons, cords and cubic measure as well as board foot scale. Although the export; shake and shingle; and pole, post and piling mills made extensive use of Scribner scale, they also reported a variety of other measurement units: cords, bolts, pieces, shake blocks, squares, lineal feet, etc.

Board foot is the unit of measure used in this report for all wood consumption. An exception is allowed for purchased or transferred veneer consumed by plywood mills (square feet, 3/8-inch basis) and chips and

other residue consumed by pulp mills (bone dry tons).

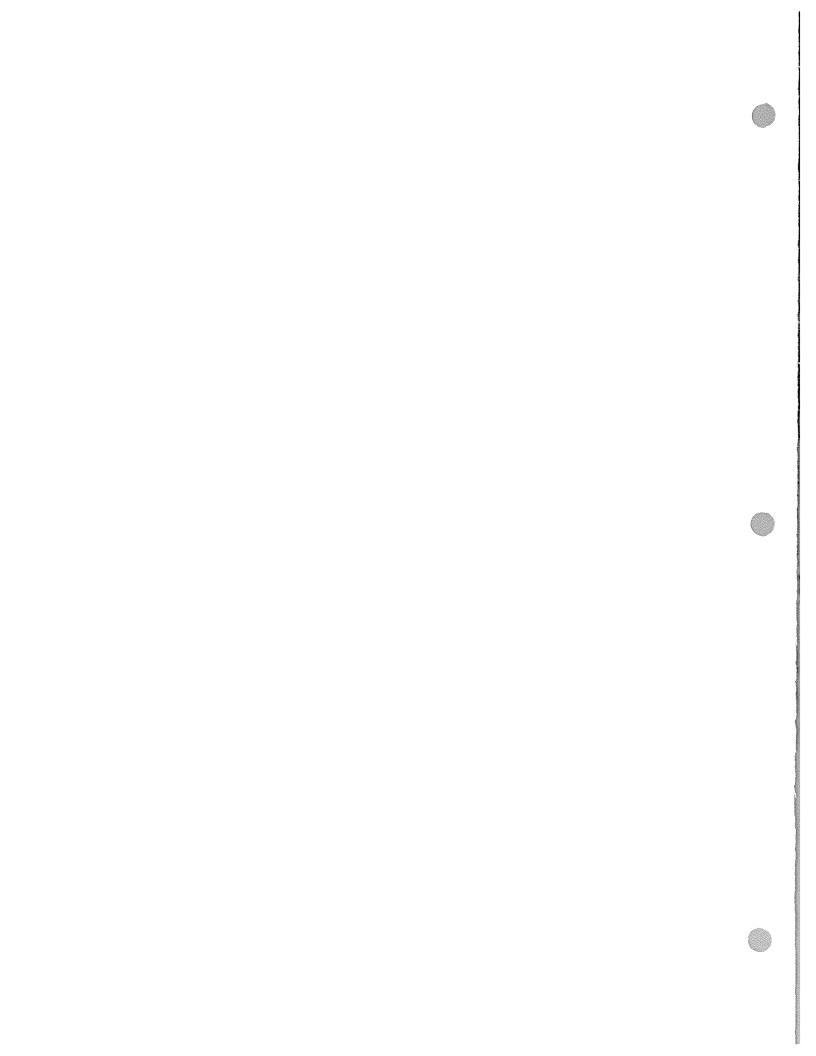
The following measurement units were used:

- o Board foot lumber tally is used for lumber production.
- o Square feet 3/8-inch basis is used for plywood and veneer production.
- o Square (10' x 10' area coverage) is used for shake and shingle production.
- o Board foot Scribner is used for log export ship-ments and for pole, post and piling production.

Bolts, pieces and shake blocks were generally converted to Scribner scale by the operator. Measurement equivalencies are shown below.

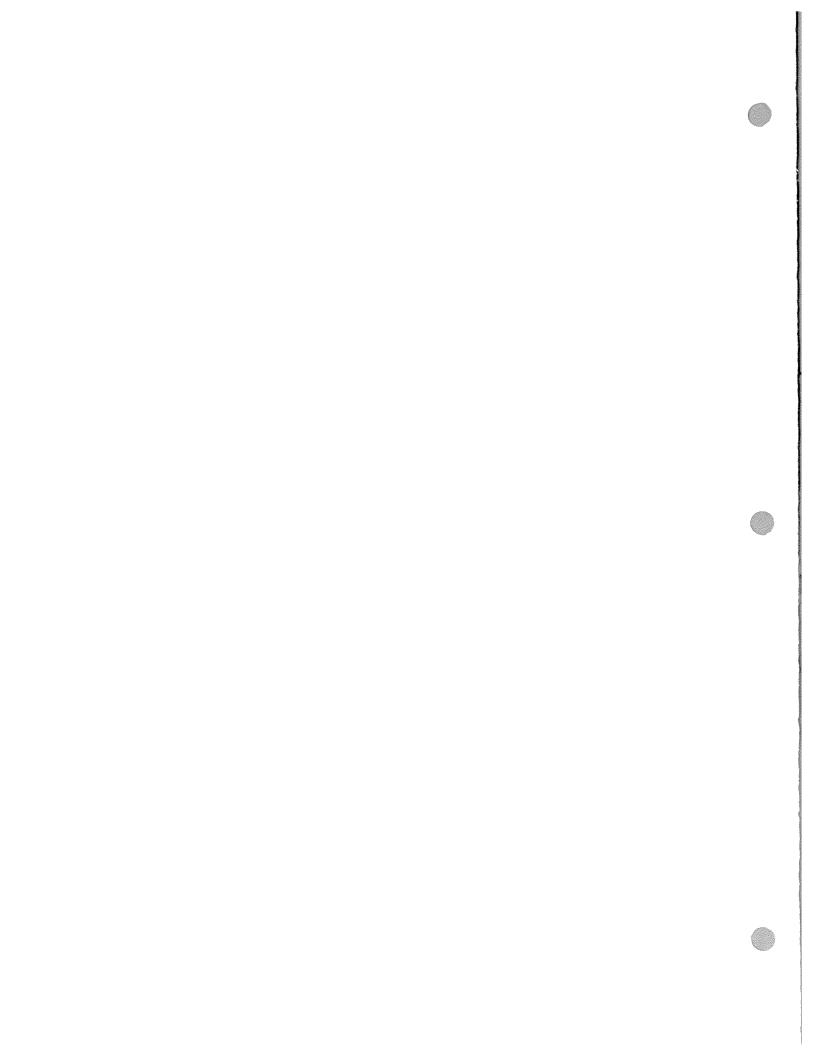
Unit conversion used in this report:

```
Lumber Industry
1.3 board feet
                    = 1 board foot, Scribner (Approximately)
  lumber tally
Veneer and Plywood (3/8-inch basis)
                    = 1 board foot, Scribner
2.5 square feet
1 square foot
                    = 0.885 square meters
1,130 square feet
                    = 1 cubic meter
Pulp and Board
1 cord
                    = 500 board feet
                                        = 2.41 cubic meters(S.W.E.)*
1 short ton
                    = 500 board feet
                                         = 0.907 metric tons
200 cubic foot units = 1 bone dry ton
                                         = 0.907 metric tons
1 bone dry unit
                  = 1.2 bone dry tons = 1.088 metric tons
Shake and Shingle
10 squares**
                    = 1.000 board feet = 4.7 cubic meters(S.W.E.)*
Pole, Post and Piling
1 cubic foot
                    = 6 board feet
All Industries
211.9 board feet = 1 cubic meter
*(S.W.E.) = solid wood equivalent
**One square covers 100 square feet
```





Appendix B



Mill Residues

Residue production figures in this report are calculated, not reported values. The mills were asked merely to indicate on a percent basis the uses made of their various residues. These percents were applied to residue estimates developed using the following residue factors:

Softwood Sawmill Residues†

Average quantity of residues developed from producing 1,000 board feet of lumber.

<u>Item</u>	Solic	i volumett	Dry weight	Residue type
	(Cubic f	eet) (Percent)	(Tons)	
Wood residue				
Slabs, edgings, sawmill trim	36	24.8	0.486	Coarse
Planer trim	3	2.1	0.041 }	
Sawdust	16	11.0	0.216	Fine
Planer shavings	<u>16</u>	11.0	0.216	Medium
Total wood residue	71	48.9	0.959	
Bark	17	11.7	0.258	Bark
Lumber	<u>57</u>	39.4	0.864	
Whole log	145	100.0	2.081	

[†]Based on data from Oregon mills compiled by Oregon State University, School of Forestry, in 1967, and adjusted for changes in lumber standards by James O. Howard, Resource Analyst, Pacific Northwest Forest and Range Experiment Station. Dry weights adjusted for different species mix utilized in Washington.

Softwood Plywood Residues†

Average quantity of residue developed in producing the equivalent of 1,000 square feet of %-inch plywood (rough basis).

Plywood residue	So	lid volume	Dry weight	Residue type
	(Cul	bic feet††)	(Tons)	(Percent)
Wood residue				
Log trim	3.4	0.048	4.2	
Cores	6.3	0.088	7.8	Coarse
Veneer clippings, roundup				Joanse
& spur trim	19.3	0.270	23.7	
Dry trim & layup loss	6.3	0.088	7.8	Medium
Sander dust	1.6	0.022	1.9	Fine
Total wood residue	36.9	0.516	45.4	
Bark	_8.8	0.132	11.6	Bark
All residue	45.7	0.648	57.0	
Plywood	34.9	0.489	43.0	
	MANAGEMENT PROJECT	- Annother Control of the Control of		
Whole log	80.6	1.137	100.0	

[†]All residue factors except sander dust and bark from data collected via various mill studies by the Characterization and Utilization of Western Softwoods and Forest Residues Project, Pacific Northwest Forest and Range Experiment Station, and compiled by James O. Howard, Resource Analyst. Sander dust and bark factors based on data from Oregon mills compiled in 1967 by Oregon State University, School of Forestry. Because of the similarity of mills and species used, no adjustment was made in applying these data to Washington.

ttGreen Volume.

^{††}Green Volume.

Shingle Mill Residues†

Average quantity of residue developed in utilizing 1,000 board feet of logs, Scribner scale, or in producing the equivalent volume of 10 squares.

Shake and shingle residue	Solid v	Dry weight	
	(Cubic Feet)	(Percent)	(Tons)
Shingles:			
Coarse	23	13.7	0.22
Fine	78	46.8	0.75
Bark	19	11.5	0.28
Shakes:			
Coarse	23	13.7	0.22
Fine	24	14.5	0.23
Bark	19	11.5	0.28

†From information provided by the Red Cedar Shingle Bureau

Hardwood Sawmill Residues†

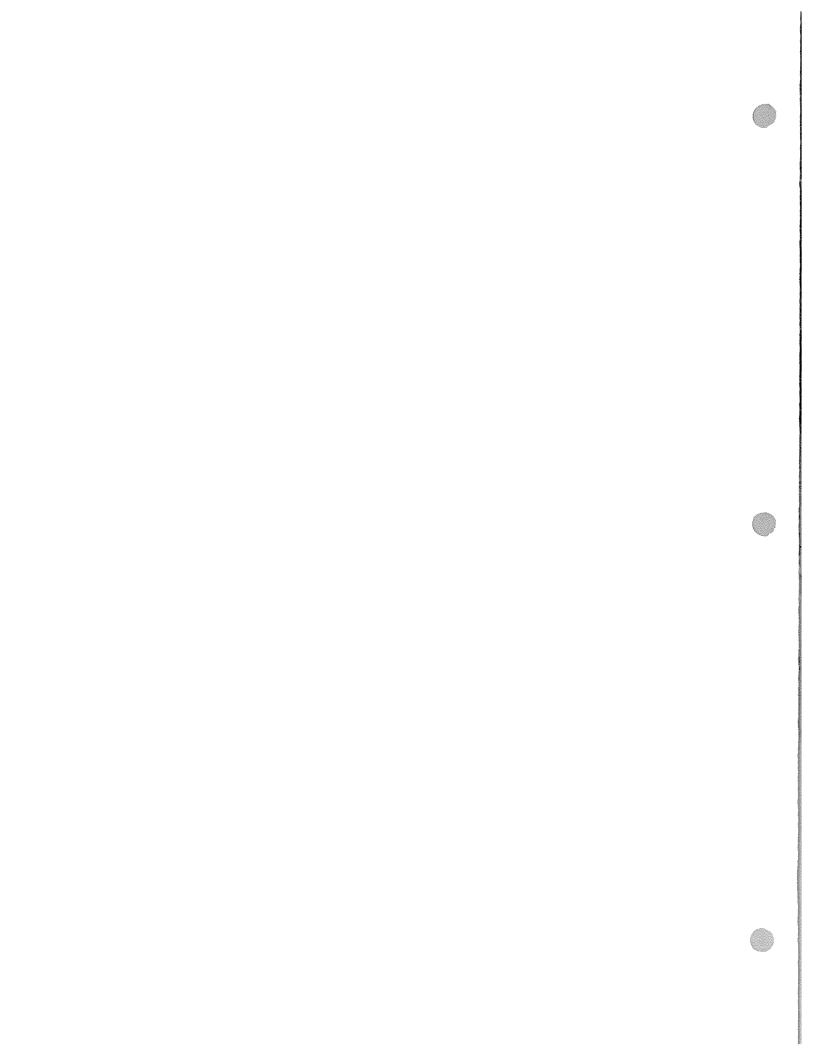
Average residue developed from producing 1,000 board feet of lumber using a narrow kerf bandsaw.

<u>Item</u>	200 cu. ft. (Units)	Dry weight (Tons)	Residue type
Wood residue Slabs, edgings, sawmill			
Trim & planer trim	0.71	0.60	Coarse
Planer shavings	0.26	0.22	Medium
Sawdust	0.27	0.23	Fine
Bark	0.40	0.34	Bark

†Based on information furnished by Northwest Hardwoods, Inc.



Appendix C



Computer Program Used for this Report

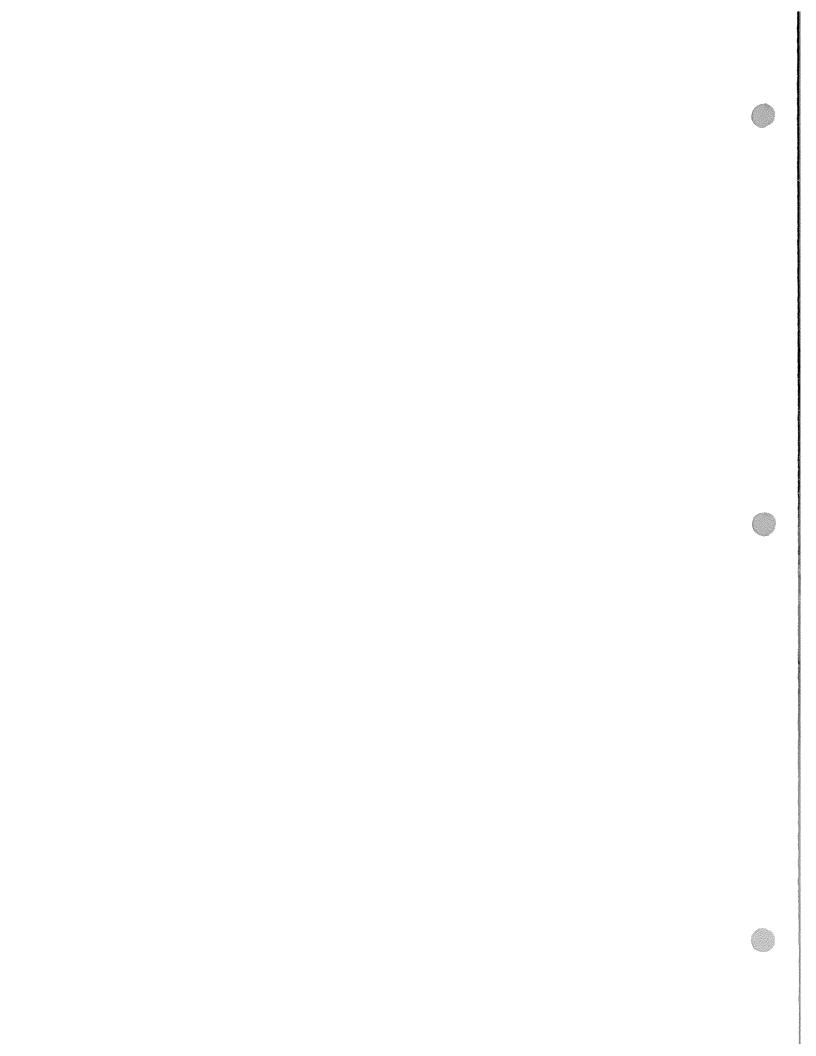
The automated Mill Survey System was developed on an IBM 370/158 MVS computer at the Washington Data Processing Service Center, Olympia, Washington.

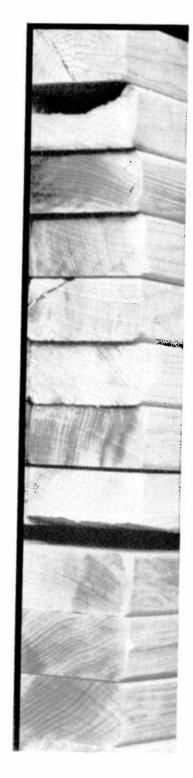
The master file was built and edited by programs written in ANSI COBOL. Each mill type has its own independent edit program and was designed so that data changes could be made by Department of Natural Resources staff using on-line terminals. The calculations for the various tables and summaries were produced by separate ANSI COBOL programs. There are two programs for each table. One selects the data from the master file; the other program summarizes and formats the table.

The program package was designed to handle other states' data with minor modifications.

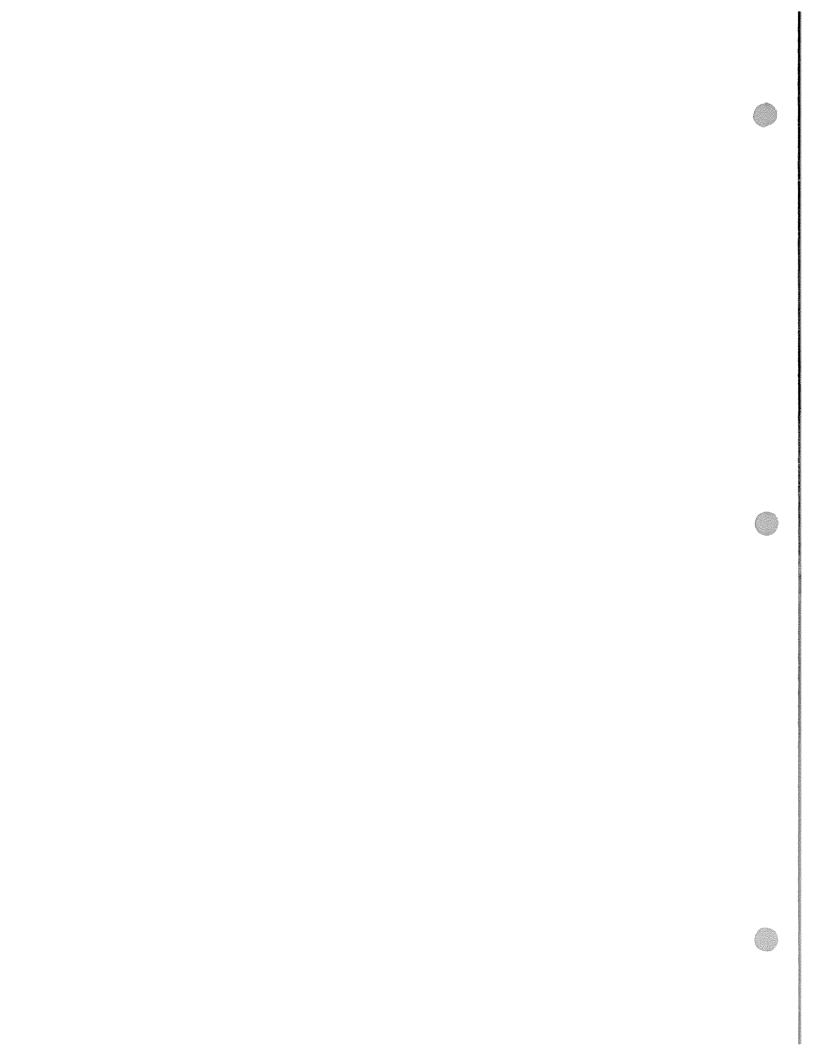
A complete documentation package for this system consists of:

- O Warnier Diagram for each program
- o Sample input documents
- o Keypunch instructions
- o File descriptions for each file
- Data description including edit criteria for each field
- Reasonableness edits for each input file
- Edit error message tables for each input file
- O Report layouts of each Output report
- o Sample Output reports
- o Source program listings
- Job Control Language listings for execution of system





Appendix D



Report Data

Table 1 Number of mills by timber industry

	Industry						
Economic area	-delegation in a		Veneer		Shake		
and county	All industries	Lumber	and plywood	Pulp1	and shingle	Export ²	Pole, post and piling
Puget Sound							n Vertreichen und Zweisen aus der Gestelle der Gestelle Gestelle Gestelle Gestelle Gestelle Gestelle Gestelle G
Island	1	1		900 AM	No. 444	Nin top	100 MIN
King	12	8	2	***	2	m	And sink
Kitsap Pierce	2 31	2 8	2	2	2	16	*
San Juan	1	1	۷	۷	۷	10	1
Skagit	24	5	1	ni we	15	3	
Snohom1sh	51	18	1	1	13	17	1
Whatcom	12	44	1	22	4		
Total	134	47	7	5	36	36	3
Olympic Peninsul	à						
Clallam	61	9	2	2	30	17	1
Grays Harbor Jefferson	75 6	9 3	4	2	33	27	AND MICH
Lewis	22	10	2	1	2 10	100 MH	salay daga 1900-1900
Mason	7	5	1	40.10		400 000	1
Pacific	8	5	sex sex	No. 44	3	mir mir	
Thurston	15	3	3		1	6	2
Total -	194	44	12	5	79	50	4
Lower Columbia							
Clark	12	6	1	2	3		May one
Cowlitz	37	8	1	5	6	16	1
Klickitat Skamania	6 3	5 2	1		WM July	404 Mar	÷ ∞
Wahkiakum	3 4	1	1		3	see selv See saa	salar ridge salar salar
Total	62	22	4	7	12	16	1
Central Washingto)n						
Adams			where were	not see	Mar dag	-	wing ages
Benton	ware rader	200 400	and one	Mar mar	***	-07 -000	Se 90
Chelan	3	2	AND NO.	6e xx	1	age sup-	100 100.
Douglas Franklin	20 M	all de	NAME AND	ting map	** ·**	100 side	man again
Grant	ven silv		Acr All	90 40	44 444	this and	** ***
Kittitas	1	the me	1	No660	***		ne spe
Lincoln		nor one	an no	alan any	NOT 1000	***	MAL ship
Okanogan Yakima	7 5	5 4	2	one age	No. obj	Mr ess	Mile with
Total	16	11	4	witer faller	1		та жант Сан со
- Inland Empire					Q-Q-V-Lig-glass hall high a common accommon monomorphism of	and decrease and an experience of the control of th	ah maanan ah aasa sa aa sa aa agaa kii maga agga agga ag paga paga agaa agaa a
Asotin	2	2	NOT 480	MA- Mar		200 GH	esi esi
Columbia	1	ì			Nor day	air an	and and
Ferry	2	2	who little	sion was	900 viles	***	the win
Garfield	~ ~	~~	nor out	ine ser	*	w. w.	Mir 440
Pend Oreille Spokane	3 4	2 3	400 Mar.	1	1	***	494, 500
Stevens	20	14	1	1	2	No. 100 400 300	3
Walla Walla	4	2	der and	2	\$		J
Whitman _				Not the			***
Total	36	26	1	3	3	see dip	3
Total, State	442	150	28	20	131	102	\$ ¥

 $^{^{1}\}mathrm{Each}$ pulping process at a mutiplant location is counted as an individual mill

 $^{^{2}}$ Represents the number of identifiable operations involved in the export trade

Table 2 Primary wood consumption

	***************************************	Roundwood		Describeration -	
Economic area and industry	All roundwood	Sound logs	Utility logs	Other ¹	Residue ²
	Thous	and board feet,	Scribner 1	og rule	Bone dry tons
Puget Sound					
Lumber	764,811	704,123	60,688	137	são say
Veneer & plywood Pulp	54,649 65,611	54,649 57,713	7,898	who sides	1,536,561
Shake & shingle	38,491	34.720	3,771	3,682	1,330,301
Export	736,398	34,720 735,225	1,173	***	io ed
Pole, post & piling _	11,981	11,946	35		
Total	1,671,941	1,598,376	73,565	3,819	1,536,561
llympic Peninsula					
Lumber	729,459	658,299	71,160	12,136	win data
Veneer & plywood Pulp	74,528	71,522	3,006	ethe date	1 225 207
Shake & shingle	237,375 53,795	206,874 51,855	30,501 1,940	12,461	1,225,307
Export	1,002,418	982,586	19,832	12,401	40 GW
Shake & shingle Export Pole, post & piling ³ Total	6,624	6,559	65	он ак	
Total	2,104,199	1,977,695	126,504	24,597	1,225,307
ower Columbia		nciae militridencia i militriori candria con casa con revi i marcini ca ca ca antici i casti co g			e California (Alemania — Antonio de Alemania (Alemania Alemania Alemania Alemania Alemania Alemania Alemania A
Lumber	530,021		32,355	vol- an	nder das
Veneer & plywood	115,173	108,929	6,244	way and	
Pulp ⁴ Shaka & chinala	89,956	25,656 5,578	64,300 3,052	764	4,038,164
Export	526.625	526,209	416	/04	one sub-
Shake & shingle Export Pole, post & piling ³			**	en 108	N4 44
Total		1,164,038	106,367	764	4,038,164
entral Washington					reliance in the control of the contr
Lumber Veneer & plywood ⁵	241,498	217,689	23,809	7,345	59° 400
Veneer & plywood" Pulp	147,692	147,304	388	take dala Sala dala	SH 60r
Shake & shingle ⁵	210	122	88	389	100 100
Export		20 No. 100	~~	**	the same
Pole, post & piling _		40 -46	40 49 .	* **	00 40
Total	389,400	365,115	24,285	7,734	40 m²
nland Empire	in de em gibbre en la restilipcia de la la comulta de la color de encuencia del encuencia de la color de encuencia del encuencia de la color de encuencia del encuencia de encuencia del encuencia de encuencia de encuencia de enc	lik dan hili Pahimus (ipam biyarin wakin ipid daiqaan ilayaid) hili yyyy ayddiy <u>assassan a</u> yyad ga		OPOCIO HETTO PER ESPERITIVO DE LE LIBERTA LA CONTRACA CONTRACA CONTRACA CONTRACA CONTRACA CONTRACA CONTRACA CO	Etholistickinistics ald Esimphonideleli innocensivishiyyyyyye opyyvetyishiyonyyye tagan isa etholistic and Al
lumher	331,308	330,952	356	One has	40 00
Veneer & plywood ⁵	der with	86-469	Size viter	dia seli	with near
Pulp ⁴ Shake & shingle ⁵	540 mm	em em	***	****	into side
Export	90- 400 100- 400	ent des		***	MATE AND
Pole, post & piling	1,784	6	1,778		
Total	333,092	330,958	2,134	data dalay	une son
otal, State	anka viridenka ahalem-tanda umatasah-tanda usuliiraliisid tankii uluku usukuu	MACA Billiother window work place (sign memorial discrepancy open property property property)	ommenten en e	ooodigaaliin oo	
Lumber	2,597,097	2.408.729	188,368	19,618	Open lapp
Veneer & plywood	392,042	382,404	9,638	13,010	inter sine
Pulp	392,942	290,243	102,699		6,800,032
Shake & shingle	101,126	92,275	8,851	17,296	With Good
Export Pole, post & piling	2,265,441 20,389	2,244,020 18,511	21,421 1,878		utati ada. uda uga.
declara	aa gaariigiaa fiile hiikakii maal mirkuu moid diili kuun maa mahanii mysiid yila gaayaga, pumaga				
Total	5,769,037	5,436,182	332,855	36,914	6,800,032

Includes peeler cores, lumber and cants used by sawmills (converted to log scale assuming 30 percent overrun), blocks, boards, bolts used by shake and shingle mills, and miscellaneous peeled products used by pole, post, and piling mills

 $^{^2\,\}rm Includes$ residues from the sawmill, veneer and plywood, and shake and shingle industries plus chips from roundwood chipping plants, and wastepaper

 $^{^3\}mathrm{Olympic}$ Peninsula and Lower Columbia combined to avoid disclosure

⁴Lower Columbia and Inland Empire combined to avoid disclosure

 $^{^{5}}$ Inland Empire and Central Washington combined to avoid disclosure

Table 3 Log use by industry and origin (Thousand board feet, Scribner log rule)

			Origin			
Economic area and industry	₩ pro-	Washingto	n Oregon	Idaho	British Columbia	Other
Puget Sound						
Lumber	764,811	759,466	***	No. co	5,345	***
Veneer & plywood	54,649		main too	with age	J,343	** **
Pulp	65,611		Non-main	~ =	MF ME	***
Shake & shingle Export	38,491		20 40	46.50	995	46
Pole, post & pilir	736,398		***	and the	7,955	****
pose a pilli	.a 11,301	9,377	2,288		145	171
Total	1,671,941	1,654,996	2,288	new wide	14,440	217
Olympic Peninsula	displacement in the forest of respectations and receive	Ministration between the management of the second contract and the second second contract and the seco	rind Missoulation In the Contract States and American principles and the Contract American		en de la companya de	Novel comment control control and an incomment
Lumber	729,459	722,291	5,100		960	1 100
Veneer & plywood	74,528	74,528	***	w m	700	1,108
Pulp Shaka & shinala	237,375	235,189		1997 Julies	2,186	
Shake & shingle Export	53,795	53,760	94c min	We see	35	***
Export Pole, post & pilin	1,002,418	991,998	***	No sile	10,420	41 44
, o.e. post a pitti	9 0,024	6,481	143			** **
Total	2,104,199	2,084,247	5,243	40- vo	13,601	1,108
Lower Columbia					and the second of the second o	
Lumber	530,021	459,136	70,885	Vet and		
Veneer & plywood	115,173	108,906	6,267	MN No		98 Mg
Pulp ²	89,956	50,355	31,601	the see	***	98 Mg
Shake & shingle Export	8,630	7,163	117	1,350	Circ Jan	***
Export Pole, post & piling	1 520,625	429,174	95,099	tel: san-	~-	2,352
Total	1,270,405	1,062,734	202 060			TO 100
	**************************************	1,000,734	203,969	1,350	Aller Aging	2,352
entral Washington Lumber	041 400					A Contractive Contractive Contractive (preparation
Veneer & plywood ³	241,498	241,498	WA 100	665 and	WH NO	
Pulp	147,692	147,612	-	165 166	80	44.46
Shake & shingle3	210	210	707 445	the size	NOT Jay	***
Export	*** ***	570	~~		the and	No view
Pole, post & piling	No tan	No ear	00 ata	- Min - Mar	200 - pag	Mir edu
Tabal						100 aug
Total	389,400	389,320	Mijk velye	me no.	80	
land Empire			The second secon	nterior de de victor aguilland y mais amendo a productivo accidente para pier.		
Lumber Veneer & plywood ³	331,308	294,594	33,181	3,533	We am	
Pulp ²	29-92	50 mg	955.000		100 Miles	****
Shake & shingle3	tion day	100 Ade	***	20 100	100 mm	nor the
Export		tales etts Alter men	MM -Mps	who day	Not the	461 303
Pole, post & piling	1,784	1,784	em said:	Mar sale		
Total	333,092	296,378	33,181	3 833	46	We say
	ed Characteristics constitution of the property of	**************************************	~~ \$ 2 U L	3,533		,54 ags
tal, State						
Lumber	2,597,097	2,476,985	109,166	3,533	6,305	1 100
/eneer & plywood	392,042	385,695	6,267	~ mm	80	1,108
Pulp Shake & shingle	392,942	359,155	31,601	MO alla	2,186	
The second secon	101,126	98,583	117	1,350	1,030	46
ole, post & piling	2,265,441 20,389	2,149,615	95,099	AM 86-	18,375	2,352
*	769.037	17,642	2,431		145	171
	· g / U J _{\$} U J /	5,487,675	244,681	4,883	28,121	3,677
		The state of the s	Park Company of the C	Territorio de la companya del companya del companya de la companya		

¹Olympic Peninsula combined with Lower Columbia to avoid disclosure

 $^{^2\,\}mathrm{Inland}$ Empire combined with Lower Columbia to avoid disclosure

 $^{^3}$ Inland Empire combined with Central Washington to avoid disclosure

Table 4 Log consumption by county and harvest origin by county (Thousand board feet, Scribner log rule)

		Economic area and county of origin									
		Puget Sound									
conomic area and county of use	Total	Island and San Juan ¹	King	Kitsap	Pierce	Skagit	Snohomish	Whatcom			
uget Sound				39.264		ns ns	***	No de			
Island/San Juan/Kitsap ¹	144,228	4,164	75,815	39,204	34,006	***	9,575				
King	143,223	***	89,881	23,305	153,208		30,791	**			
Pierce Skagit	619,647 53,190	150	617			35,439	6,541	8,455			
Snohomish	614.534	934	43,597	171	18,231	172,190	188,995	58,123 40,965			
Whatcom	97,119	av av	1,156	**		34,093	5,788	40,900			
Total	1,671,941	5,248	211,066	62,740	205,445	241,722	241,690	107,543			

)lympic Peninsula			0.445	m m	**	255	SN -WC	***			
Clallam	352,024		2,445	NA -00		~~		ine will			
Grays Harbor/Jefferson1	462,753	237	2,550	3,281	13,532		468	40 MA			
Lewis/Mason¹ Pacific	75,723	E 07)	.,	***		Apr 100	2,290				
Thurston	137,450				18,280	5,136	3,852	3,852			
Total	2,103,720	237	4,999	3,281	31,812	5,391	6,610	3,852			
ower Columbia Clark Cowlitz Klickitat/Skamania/	126,441 967,851	ecinciales com coppesations com hibs after development and hibbands. 40 Ind. 30 Ind.	and annual airth Spirit Annual sea ann am Spirit Annual Spirit Annual Spirit Annual Spirit Annual Spirit Annua William Addin.	nana papah papa kansasa kansilari da kaharapan pengalah papama 28 Bib. Hub. Salik Hub.	ante autorior prime in prime in manerica de la fact de la media en el mente en el mente en el mente en el ment dels altri	ga popigija u savoja kan kristički konstrukturi su slovenski simbolini i svojedini kristički kristički kristič Gara 1940. Salo 1840.	agraciones e e e e e e e e e e e e e e e e e e	yang dan dan pengangan pengangan pengangan pengangan pengangan pengangan pengangan pengangan pengangan pengang Sahar dan pengangan pengangan pengangan pengangan pengangan pengangan pengangan pengangan pengangan pengangan Sahar dan pengangan			
Wahkiakum ¹	176,592										
Total	1,270,884	***		90° 400	air no	dis dis-	600 mint	wit en			
Central Washington Chelan/Lincoln/ Okanogan/Yakima ¹	342,545										
Total	342,545	van tild	del tala	est esti-	all da	ener man	neo-edit	A66 400			
Inland Empire .	AND CONTRACTOR OF THE PROPERTY	apatan 1990 at the state of the					ng jeng mga pada pada kanalasa da	والمناوات في المناول والمناول المناول			
Asotin/Walla Walla	54,867	565 AND	** =	Will wide	***	non- selv	lade visit				
Columbia/Ferry	47,631	alt 144	** ***	200 100	MAP ANT	opp spar		ac 20			
Pend Oreille	24,000	ad 40		~ ~	96A 904	eth ran	ngi ami				
Spokane	30,132	pm 140.	44 W	***		an an	***	4-14			
Stevens	223,317	49 98	e 19								
Total	379,947	10%-14%	mb 164	spin desir	any sao	HP 401	ma - do-	100 000			
		5.485	216,061	66,021	237,257	247.113	248,300	111,39			

¹Combined to avoid disclosure

Table 4 (Continued) Log consumption by county and harvest origin by county (Thousand board feet, Scribner log rule)

			01 ym	pic Penins	ula		Lower Columbia					
Clallam	Grays H	arbor Jeffer	son Lewis	Mason	Pacific	Thurston	Clark	Cowlitz	Cition and the control of the contro	Skamania	Wahkfakun	
				TO THE PARTY OF TH	***************************************				Proposition of the second	Philippinesia minerapramenta para para para para para para para pa		
9,800	400 may 200 may	63,000 5,600	15 607	28,000		Wit day	**	***	iái dip	No. 100	wile too.	
7,652	554	3,301	15,687 194,019	540 49, 653	00 to	24,551	***	der sign das sign	the side	***	in on	
6,146 11,515	1,952	3,493 3,457	62,107	3,555	3,427	11,268	943	771	55	342	nas dan dal Ala tal dan	
37,113	2,506	78,851	271,813	81,748	3,427	35,819	943	771	55	342		
229,450	8,290	102,915		2,483	ngile en de region de la company de la compa	PP Medical Artifecturing and a production of the second and a				Makalahahahahan di kecamatan dalah d	440-Mennison di Cilippi dalah dari-di Shikalanaya mengupunga	
32,504	735,106 53,987	125,226 4,039	17,155 143,565	8,289 118,383	150,181 6,475	4,411	mi ná	ath size	New Yorks		2,863	
	21,044 144	40 AP	372	PP 400	49,917	11,035		19,809	ann who	61,224	2,100	
	[44		21,972	17,170	***	59,603		1,021		* 14		
61,954	818,571	232,180	183,064	146,325	206,573	75,049	oper No.	20,830	Nor-via	61,224	4,963	
and with	141	ine sis	2 4, 600 87,869	en de deserviciones expressiones que en processo de la massa d en la companya de la massa	3,748 550	1,427	7,298 31,195	5,747 560,854	153 707	33,242 91,995	6,603 34,549	
69	156			nie esi	381	***	der opp	400	75,863	79,454	781	
69	297	an ou	112,469	ater-dag	4,679	1,427	38,493	567,001	76,723	204,691	41,933	
in the	Middliff in der gebruik ver der gestelle der gebruik ver der gebruik ver der gebruik ver der gebruik ver der g Mehr der gebruik		ini financia de la composition della composition de la composition della composition	kidekkin kali ini kidekin kali kidekin kali kali kali kali kali kali kali kali	managani makan kalendari kalendari da kalendari da kalendari da kalendari da kalendari da kalendari da kalenda Mare maka			terik erikken (in de liste die de liste de list Este de liste de l	32,208	angermen proposition (escape calatitiva instinction) escape indicate instinction (escape calatitiva instinction) escape calatitiva instinction (escape calatitiva instinction) escape cala	er fill the decrea of the formula and associated contact conta	
TO AN	Minimization of the Community of the Com	MARKAN MA	minangan akina matambala kumangan kapunan pemengan pengangan pengangan pengangan pengangan pengangan pengangan Malamatan	Miller (Miller) (Mill	AMPERIA PERSONAL AND	und die der der der der der der der der der de	000-000 (100 (100 (100 (100 (100 (100 (1	DPV CONTACT And CONTACT AND	32,208	All mental from the continue of the contract o	ammofernaamme parti popumoja, et	
AN DE				dert eine annat eine a An te	en de		ment ever ether amarical appropriate agent. 99° 50°					
600 also	~ ~	de se		din mai	No. 100	WF 466	MR Gar			the sec	200 Mar. All: Apr	
*** iss			46. 540	M 200	40	ma que	Alle Mar Alle dar	No sec	566 - 626 500 - 660-	200 top	man non-	
Mhir said	elek kan	etin eşir	which dights	diff. who	44Y 2011	Marganda Antoniculus Cilina in cicil Antonicum margan segle Margan in cicil Antonicum Natio mar-	*) *N	150 del	The Page	** 40	Permission Charles (Permission Charles	
9,136	821,374	311,031	567,346	228,073	214,679	112,295	39,436	588,602	108,986	266,257	46,896	

Table 4 (Continued) Log consumption by county and harvest origin by county (Thousand board feet, Scribner log rule)

	Economic area and county of origin								
			Central Washi	Ington					
Economic area and county of use	Chelan	Kittitas	Lincoln	Okanogan	Yakima				
uget Sound ,	gyan goryapa, aprilia analiin kasi distindi dhamaki datti datti		ilago, a sinin u, a shey a siste finish and a sinin a man a ma						
Inland/San Juan/Kitsap ¹	4-4-	400 940	ner ner	ate dan					
King Pierce	3,764	35,421	46 AP	der Ma					
Skaqit	3,704	33,461	**	635	***				
Snohomish	9,730	16,604	Mr. 10	₩ #8	** **				
Whatcom	AND THE	44.44	in an						
Total	13,494	52,025	que que	635	etr est				
llympic Peninsula	valuement value and in the field and the child of the chi								
Clallam	***	No. and	MA - ME	like win	***				
Grays Harbor/Jefferson ¹	00 to	~ ~	w w	ay as	17,000				
Lewis/Mason Pacific	ale san	No. 160 No. 464	We will		17,000				
Thurston	No. 144			40 MA					
Total	We 40'		407 MH.	air co.	17,000				
(Ota)			*		27,000				
ower Columbia				engenetasa generā en accentration tien tien tien tien tien tien tien tie					
ower columbia Clark	we 100	noi nin	***	***	-0.00				
Cowlitz		are 100	* *		the true				
Klickitat/Skamania/									
Wahkfakum ¹				60 PE	15,288				
Total	Jär ons	doc solo		AM IND	15,288				
entral Washington Chelan/Lincoln/ Okanogan/Yakima ¹	35,779	42,424		123,302	108,752				
Total	35,779	42,424	70× 400	123,302	108,752				
nland Empfre ,									
Asotin/Walla Walla ¹	***	805-106	also man	4 7 4 9	46.46				
Columbia/Ferry¹ Pend Oreille	AN 100 100 AN	99° 64.		4,742	MA 49.				
Spokane	***	pp 400	11,896	60 Mc	N 44				
Stevens			11,070		=				
Total	an se	stan, were	11,896	4,742	MAY NAME				
Total, State	49,273	94,449	11,896	128,679	141,040				

 $^{^{1}}$ Combined to avoid disclosure

Summary

Table 4 (Continued) Log consumption by county and harvest origin by county (Thousand board feet, Scribner log rule)

WWW.		Ec	onomic area and	county of origin	1	***************************************		***************************************	
			Inland	Empire	· Character and the second of the second		والمراور ومرود والموارد والمنافذ والمناور والمنا		
Asotin	Columbia	Ferry	Garffeld	Pend Oreflle	Spokane	Stevens	Walla Walla	Whitman	Out-of-State origin
	- Marie Marie	Since Alex	400.400	***	₩ ₩				
	dat da.		w. se			00 00 00 00	no uso	W 100	200 Apr
**	air sair Sair sair	this was	w. w	**	***		No. ob		3,547
**		**			100 MI	760 464		## va.	1,353
	w		in us		**	100 to 100	mail tour	40 M2 40 M4	11,900 145
**	ide str	ide vale	jiir sar	4-4-					16,945
·····								Madisian lajang pagagan paganan satu satu s	
20 an	**	enc our	***	all of	MI 40.	****	We do		6,186
***	ينيه مند مند مند	non-son-	the ele-	min. digr date min.		nor no		90 min	35
		100 106	***	er on		Min sale	AND TOP	40 10.	7,168
**	***	és se	No. 100			***			per sal
		en de				w	**	94	6,420
paid adde	No ser	984 AM	dio sas	ing mile	an 194	Mr. vaja	tien vigo	dan nga	19,809
Marineron so emissione, escusione, escusione		ellekturken (social) Sammer (social) erre ellekturken en promonen Laute (social) sisse en en este ellekturken			Militario de Santono de La composição de			idd ddiddian a mae'n a arwyn y gan y chog gan gan g	
		tope anno.	and topic	and man	DV dax		All High	W6 194	43,623
				we de	Whit sight	No no	New York	*** ***	159,991
***	* *				er sa	NF -44	etic suit		4,200
All Mar	au ais		~~	ii ii	40 100	***	State view	and any	207,814
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46 46		40 III	BO 56-	560 Auto	****	No- fad	Wa 100	**	80
6,484	2,804	60-36	6,564	en gelek salah dan	ilija sen	militaki di mininga da kata maka maka maka maka maka maka mak	2,598		27. 44.4
aler saler	200	42,689	ian nye	100 also	***		£ * 220	NA 161	36,417
***	00 00 00 00	ele de-	AND MAN	21,600	600	1,800	** ***	***	~ ~
	- Wije - Seas-	61,321	50 to	1,599 45,473	12,179	1,486 116,523	more eye.	2,675	297
5,484	3,004	104,010	6,564		12,779	119,809	2,598	2,675	36,714
5,484	3,004	104,010	6,564	68,672	12,779	119,809	2,598	2,675	281,362

Summary

Table 5 Log use from National Forests (Thousand board feet, Scribner log rule)

Economic area ¹	All National Forests	Mount Baker Snoqualmie	Colville ²	Gifford Pinchot	0kanogan	01ymp1c	Wenatchee	Umatilla	Out-of-Stat National Forests
Puget Sound Olympic Peninsula Lower Columbia Central Washington Inland Empire	267,014 324,716 194,895 146,569 122,914	206,539 5,482 1,183	 3 89,904	11,524 144,698 161,028	317 47,799 16,555	32,828 158,836	15,806 15,700 98,767	16,455	32,684
Total	1,056,108	213,204	89,907	317,250	64,671	191,664	130,273	16,455	32,684
Industry								ngagggagging nga Chataland Navilla (na Chataland Navilla (na Chataland Navilla (na Chataland Navilla (na Chataland Na	garagyapha garan kan jirahka sari 160 750 keli kelikhi ka
Lumber Veneer å plywood Pulp Shake å shingle Export Pole, post å piling	777,960 163,935 83,041 29,852 173 1,147	165,519 16,976 5,557 24,844 173 135	86,217 3,279 411	221,614 61,825 32,604 606 	41,924 22,747	136,935 29,549 20,988 4,192	104,704 25,359 210	16,455	4,592 4,200 23,892
Total, All Industries	1,056,108	213,204	89,907	317,250	64,671	191,664	130,273	16,455	32,684

 $¹_{\mbox{Note:}}$ Combinations made in Table 7 are also used here to avoid disclosure

 $^{^2}$ Log harvests reported from the portion of the Kaniksu National Forest located in Washington State are included with the Colville National Forest harvest

Number of mills dependent upon ownerships Table 6

		egis-an-con-consum-	Mation	Wattonal Forest	**		35	State	And the second second second second	-	Eureau of Land Management	gement	Terreserva a relienta da contra de la contra del la contra de la contra del	The state of the s	Other Public	blfc	,	e.	9004	Fores	Forest Industry	Other	MODIC	Alddus.	Farme	2 m 5 m 5 m 5 m 5 m 5 m 5 m 5 m 5 m 5 m	Farmer & miscellaneous private	\$P
1	Economic area		ent emerchant de	Vetrosthomoneproprom	Nine proposeption by the business continues	www.commission.com	Value and the other desired to	brotesoussessessessessessesses	the state of the s	eception and the control of the cont	edistinostrumada que assego.	executation in the second section.	1aQ	endenc)	, percent		da 400 Adjuntation and a second		The state of the s	PANAGO PA	ed hill haden common page	deray de la constante de la co	The state of the s		and the second second	THE REAL PROPERTY CONTRACTOR OF THE PERSON NAMED IN CONTRACTOR OF THE PERS	-	description
1	and industry	G	1-33		67-100	1	I	2.9		-												1-34	34-66	67-100	0	1-33	34-66	67-100
Fig. 10 13 13 13 13 13 13 13	Puget Sound Lomber Hayerer & plywood Pulp Sake & shingle Export Bost & piling	244281	0 ~ 0 % ~ 0		201211	30 4 4 5 5 4 4	ES one are less set son								ha ganara da	er e	F 88		C. 3 and 1 and 1	\$15 pine } pine pine	23 78		91112	#9 1 1 m #2	15 28 10	11 412	41110	Z I I E I
1 1 1 1 1 1 1 1 1 1	Total	986	202		12	77	49		* Commission of the Commission		The state of the s	and the second	¥			4-9	115		*	9	7.1		02	82	58	39	- 01	1 2
14 17 10 14 10 54 19 19 19 19 19 19 19 1	Olympic Perinsula Lomber Vehrer & Plywood Pulp Enske & shingle Esport Pole, poxt & piling ³	25 00 4 00 4	2000	da d	0.02 1.11	27 92 27 8	a man m		On the second		WWW.	eveninana de esperante de la proposición dela proposición de la proposición de la proposición dela proposición dela proposición dela proposición de la proposición de la proposición dela proposición de la proposición de la proposición del proposición dela proposición del	- Ann and a second a second and		. 4 4 5 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5	2 E 3 and 2 and	¥ 20 11 15 4 4	TOTAL PAGE	range	~	05 54 54 55 54 55 55 55 55 55 55 55 55 55	a law i	w 45	30117	824624	\$ mer \$ 5	7:170	= 1 1 * 1
1	Tatal	- 22 - 25 - 45 - 45 - 45 - 45 - 45 - 45 - 45 - 4	2.7	10			5.8				Control of the Contro	***	16		3	63	172	-	6	60	101	15	1.9	09	116	4 88	13	181
1 6 2 1 2 4 6 1 1 1 1 1 1 1 1 1	Lower Colombia Luncer Verger L plywood Enjet shingle Export Pole, post & piling ³ Total	X	Sens & E was \$ 8		were the second of the second	11 2 12 22 23 23 23 23 23 23 23 23 23 23 23 23	13222			District Control of the Control of t	Province Annual Control of the Contr			and the same of th		A S S S S S S S S S S S S S S S S S S S	1101011 4	and the second	** are wet 1 are 1	40° 1 1 1 2 1	A A A A A A A A A A A A A A A A A A A		Organization of the state of th		@404 }	* 1111		P 1 1 1 0 1 1
1		AND PROPERTY OF THE PERSONS IN COLUMN SERVICE AND PERSONS IN COLUM	***************************************	viveredo de de companyo,	A SANTANIAN PROPERTY OF THE PARTY OF THE PAR	Aprillable control desirence	REPAIR VANCERO de handelandos	efectstatistatistatismatuuduu,	Wildelinderserferencescope	edalasi misenji je brivanje	ulani de la constitución de la c	And the Contract of the Contra	-	members						5	ñ	n	n	žn ~<	Z,	22	ŧ	8 \$
Figure 1	cral weshington creer & Diywoog ² hake & stringle ² toort ole, toot & piling Total	and the ball of the state of th	Audens in desired	venous ex-services	which have mad if it is adding		and the state of t	D-wycerenida	Manufacture in constant and and	To the state of th				* * * * *	The second section of the section of th	epening-analysis of the second	and the second second	a b millionascens	me col p i c i	# 0	100	The state of the s	Activity (4.1) Activity (4.1)	Terminate Autoritation Autoritation States of the States o	6.2 7/2 2 46. 1 1 2.77	*::::	21111	
77 31 11 31 92 53 3 2 148 2 125 22 2 1 114 11 16 9 111 15 10 14 46 40 10 12 4 5 7 1 6 9 2 7 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	inland Empire Lumber & Diywood? Verker & Diywood? Volge Export Vole, post & piling Total	Mark () 1 3 cont LC	100 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1	OVIDARA LA	40 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 +		TO A STREET AND ADDRESS OF THE STREET AND AD				Addition of the second	al-branch and a series of the				ex 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	52 1 1 52 44	S a 5 5 4 valorimenden		2 1 2 1 2 mg	225	Grand Control of the	7 5 5 8 7 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	prominents in the second of the second	with a promise	40 } ; ; ; or		
	nl, State muner for plywood jo a plywood sate & shingle see, post & pling fotal	123	American and a strong of the s		THE COMMENT OF THE COMME			The state of the s	4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				12.2.2.2.2.2.3.3.3.3.3.3.3.3.3.3.3.3.3.3		p4 1 1 10 1 1 10 10		400046	- Andrews	and and an analysis of the second sec	w.s. ! s.o. > €	111 288 133 134 6 6	a inact i	0404	4: ~ 5	\$27.77 \$2.77 \$2.77	40	21172-	5111

Intend Empire combined with tower Columbia to avoid disclosure

 2 inland Empire combined with Central Mashington to avoid disclosure $^3{\rm Lower}$. Enumbia combined with Dlympic Peninsula to avoid disclosure

Summary

Table 7 Log consumption by ownership (Thousand board feet, Scribner log rule)

				Darmonic of		Forest	Industry	Farmer &
Economic area and industry	All owners	State	National ¹ Forest	Bureau of Land Management	Other public	Own wood supply	Other wood supply	miscellaneous private
Puget Sound		age mangan georgius plumpi un den met georgius dimentralis in del 1990 (1990).	reviet are seat over the commerce and a state of the seat constitute of the foreign constitution of the seat constitution	likusanan kalimayan disekilipaki ipumb midali kilikiliki makku ilikilikili		AURILIA EL LA LACOPICIO CON CATALONO MONTO CONTRACA MANTA		
Lumber	764,811	81,822	211,053		6,859	256,023	146,254	62,800
Veneer & plywood	54,649	1,363 11.840	20,971	100 atri	40 MV	24,525 30,810	4,015 7,757	3,775 5,763
Pulp Shake & shingle	65,611 38,491	1,996	9,441 24,810	00 es		2,795	2,517	6,373
Export	736,398	111,443	173	no w	10,923	50,625	460,987	102.247
Pole, post & piling	11,981	343	566			1,318	4,902	4,852
Total	1,671,941	208,807	267,014	NA NA	17,782	366,096	626,432	185,810
Olympic Peninsula		onconstitutation etanomina de accidentation de la constitutation de la c		ng pangain kipin mataman pagi membana kahik diben-uka salam kim diberi d				
Lumber	729,459	61,199	277,086	me dec	4,400	205,425	126,505	54,844
Veneer & plywood	74,528	11,576	26,114	nin yan	174	20,825	4,866	10,973
Pulp Chaka & abdeala	237,375	27,240	17,104	250	5,285	92,558 668	99,599 26,652	874 4,247
Shake & shingle	53,795	12,451	4,242	250	47,237	161,957	422,857	110,740
Export Pole, post & piling ²	1,002,418 6,624	259,627 1,023	170	360 - 1600 1001 - 1004	699	2,400	1,424	908
Total	2,104,199	373,116	324,716	250	57,795	483,833	681,903	182,586
Lower Columbia	entermination de décimination de la constitution de		ngga kata nga siyang at ining secesti di bersetiki di an adamati di talah ga dapat dapat d					
Lumber	530,021	41,770	72,344	40 100	7,091	285,446	92,080	31,290
Venegr & plywood	115,173	2.642	65,465	and size	260	43,529	***	3,277
Pulp ³	89,956	8,348	56,496	me has		16,737	4,915	3,460
Shake & shingle	8,630	72	590	*** ***	ANY SALE	100 100	7,828	140
Export Pole, post & piling ²	526,625	78,893	600 SSP	and the same	100 MO 200 MA	23,800	343,185	80,747
Total	1,270,405	131,725	194,895	an se	7,351	369,512	448,008	118,914
Central Washington	electrical telecomologic probabilitamento registra recentra de registra recentral	anjigagi jihadi iniki fara maraitan kunyaka ya mayarajiyile ji kiromaki m						
Lumber	241,498	18,983	98,253	44 mi	56,867	36,111	3,928	27,356
Veneer & plywood ⁴	147,692	16,470	51,385	468	18,721	54,745	250	5,653
Pulp Shake & shingle ⁴	210	40 AV	210	MA 400	Der Sale	and was	== === ===============================	Sec ess
Export	210		210	44			10° 10°	No. 400
Pole, post & piling		***	wa w	MA MA	No. 40.		an an	
Total	389,400	35,453	149,848	468	75,588	90,856	4,178	33,009
Inland Empire					······································			
Lumber	331,308	21,214	119,224	654	26,280	76,976	5,000	81,960
Veneer & plywood4		49.49	vite too	en tol	the sile	Mar and		** **
Pulp ³ Shake & shingle ⁴	no no	-00 MA	***	Mr ess	*** ***		***	10- 00-
Export	No.	and mak	***	94 -94 44 54	***			and age
Pole, post & piling	1,784	403	411	VOID Dell	750		00 de	220
Total	333,092	21,617	119,635	654	27,030	76,976	5,000	82,180
Total State						rymmen militia ar ini efizicum menenancum militarum menenancum militarum menenancum meningan menenancum menena		
Lumber	2,597,097	224,988	777,960	654	101,497	859,981	373,767	258,250
Veneer & plywood	392,042	32,051	163,935	468	19,155	143,624	9,131	23,678
Pulp	392,942	47,428	83,041	etc es	w. 20	140,105	112,271	10,097
Shake & shingle	101,126	14,519	29,852	250	5,285	3,463	36,997	10,760
Export	2,265,441	449,963	173		58,160	236,382	1,227,029	293,734
Pole, post & piling Total	20,389	1,769 770,718	1,147	1,372	1,449 185,546	3,718 1,387,273	6,326	5,980

 $[\]mathbf{1}_{\text{Wational}}$ Forest includes Canadian federal and British Columbia provincial forests

 $^{^2\}mathrm{Olympic}$ Peninsula combined with Lower Columbia to avoid disclosure

 $^{^3}$ Inland Empire combined with Lower Columbia to avoid disclosure

⁴Inland Empire combined with Central Washington to avoid disclosure

Table 8 Log consumption by species (Thousand board feet, Scribner log rule)

Economic area and industry	All species	Dougla: fir	Hemlock	True firs	Spruce	Ponderosa pine	Lodgepole pine	Western redcedar	Other softwoods	Hardwoods
Puget Sound Lumber Veneer & plywood Pulp Shake & shngle Export	764,811 54,649 65,611 38,491 736,398	425,458 21,806 577 439,555	220,697 20,301 28,816 254,108	11,932 2,300 28,240 24,658	215 272 1,886	 945	000 000 000 000 000 000 000 000 000 00	45,329 38,491 8,965	75 2,578	61,105 9,970 7,978 3,569
Pole, post & piling Total	11,981	8,068 895,464	523,922	67,130	2,373	945	134	3,913 96,698	2,653	82,622
						COLUMN TO THE COMPANY OF THE COLUMN TO THE C			CARELANI AND	ing a second the last Market Label to make LL Colories in
Olympic Peninsula Lumber Veneer & plywood Pulp Shake & shingle	729,459 74,528 237,375	265,301 55,791	296,063 9,245 158,136	29,334 123 10,494	3,031 3,487	este este data part mai may stata data	2,102	29,567 6,480 53,795	11,808 2,889 12,200	92,253 53,058
Export Pole, post & piling ³	53,795 1,002,418 6,624	256,528 6,552	640,174	17,420	41,270		end mile dels son out 400 hanningstilledgreiterschafte	45,955 72	932	139
Total	2,104,199	584,172	1,103,618	57,371	47,788	Great death	2,102	135,869	27,829	145,450
Lower Columbia Lumber Veneer & plywood Pulp ¹ Shake & shingle Export Pole, post & piling ³	530,021 115,173 89,956 8,630 526,625	361,710 82,536 17,041 389,128	47,024 22,823 57,518 121,307	27,422 9,814 11,658	320 245	56,483	nder Angle Stephen (1995) annung men seben men den Angle Angle Stephen (1995) annung men seben (1995) annung m Men Stephen (1995) annung men seben (19	36,319 8,630 4,287	739	15,397
Total	1,270,405	850,415	248,672	48,894	565	56,483	MAP AND	49,236	739	15,401
Central Washington Lumber Veneer & plywood ² Pulp Shake & shingle ² Export	241,498 147,692 210	58,999 121,970	4,041	23,651	3,779 1,734	141,435 1,876	2.057	530	7,006 1,137	
Pole, post & piling Total	389,400	180,969	4,041	41,515	-5,513	143,311	5,168	740	8,143	
Inland Empire Lumber Veneer & plywood ² Pulp ¹ Shake & shingle ² Export	331,308	129,754	31,633	6,297	10,478	89,616	38,952	13,558	11,010	10
Pole, post & piling Total	1,784 333,092	129,754	31,633	6,297	10,478	89,616	1,784	13,558	11,010	10
Total, State Lumber Veneer & plywood Pulp Shake & shingle Export Pole, post & piling	2,597,097 392,042 392,942 101,126 2,265,441 20,389	1,241,222 282,103 17,618 1,085,211 14,620	599,458 52,369 244,470 1,015,589	98,636 30,101 38,734 53,736	17,823 2,006 3,487 43,401	287,534 1,876	43,111 3,111 134 1,784	125,303 6,480 101,126 59,207 3,985	30,638 4,026 12,200 3,510	153,372 9,970 76,433 3,708
Total	WWW.initiating.http://www.initiating.com/	2,640,774		221,207	66,717	290,355	48,140	296,101	50,374	243,483

 $^{1 \ \}mathrm{In}$ line and Empire has been combined with Lower Columbia to avoid disclosure

 $^{^2\}mbox{Inland}$ Empire has been combined with Central Washington to avoid disclosure

 $^{^{3}}$ Lower Columbia has been combined with Olympic Peninsula to avoid disclosure

Production and disposition of wood and bark residues (Tons, dry weight) Table 9

1,10,10,10, 1,10,10,10,10,10, 1,10,10,10,10,10,10,10,10,10,10,10,10,10	ereck remere en resemplede del men en extende de 00000000000000000000000000000000	erferencement or management described	exactor from successibility in the contribution by when the		Wood Res	Residue			Propried and state of the supplementary of the state of t	валими и менти полити п	Bark residue	908		
180 180			1		Usedl				1		Used ¹	New American Property of the Control	e Villege (Andréa de Andréa de Antres y Agrico) de Agrico de Antres y Agrico (Antres Antres A	
13, 13, 13, 13, 13, 13, 13, 13, 13, 13,	Companic area and residue-producing industry	residues	A11 wood	Total	Pulp and board	fact	Other	pasnug	A11 bark	Fotal	Pulp and board	Fue	Other	Unused
1,572,134 1,175,354 1,175,254 1,175,124 1,50,	uget Saund Lumber Veneer & plywood Shake & shingle Other?	1,303,327 169,506 31,308 47,943	1,014,918	978,137	385,383	443,860 67,228 9,713	148,894 6,464 2,968	36,781	288,409 30,939 8,798 47,943	276,855 30,939 4,683 47,943	13,859	151,156 19,528 4,095 45,312	111,830 11,411 2,631	
1, 49, 105 1, 14, 136 1, 14, 136 1, 14, 136 1, 14, 136 1, 14, 136 1, 14, 136 1, 14, 136 1, 14, 138 1,	-T-	1,552,084	1,175,995	1,128,235	449,108	520,801	158,326	47,760	376,089	350,420	13,869	220,091	126,460	15,669
1,49,604 1,141,734 1,109,804 134,545 121,522 101,739 31,332 357,871 346,516 350, 350 351,456 54,700 31,324 31,	ympic Peninsula Lumber Veneer & plywood Shakej& Shingle Other?	1,168,105 226,314 64,797 40,393	910,356 184,250 47,132	899,920 184,250 25,63 <i>6</i>	626,109 107,701 735	190,615 61,226 21,681	83,196 15,323 3,220	10,436	257,749 42,064 17,665 40,393	254,177 42,064 9,882 40,393	350	216,832 24,706 9,535 40,393	36,995 17,358	5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5
146,844 101,164 116,166 116,16	Total	1,499,609	1,141,738		734,545	273,522	101 s 239	31,932	357,872	346,516		291,466	54,700	11,355
1,127,222 827,611 827,611 507,554 255,610 64,447 299,621 299,628 4,601 240,148 54,709 54,709 51,529 52,659 52,259 52	wer Eglumbia Lumber Splywood Shake,&shingle Stherf	908,354 148,886 10,764 59,218	703,432	703,432 116,166 8,013	421,684	245,613 5,791 4,206	35,935 27,891 621	Control of the Contro	204,932 32,720 2,751 59,218	204,881 32,720 2,639 59,218	3,715	157,434 21,896 1,600 59,218	43,732 10,824 153	# 63 # 17 17 1
416.834 325.692 325.692 150.541 176.767 48.345 3.329 67.857 65.009	lotal	1,127,232	827,611		507,554	255,610	64,447	-б» чр	299,621	299,458	4.501	240,148	54,709	163
698.767 552.899 549.244 207.175 190.693 61.376 3.655 145.363 142,480 118.310 24.170 1	ntral washington Umber Shaker & plywqod Shake and shingle Other ²	416,834 281,098 330	328.982	325,653 223,552	186,541	126,767	48 12,945 948 348	3,329	87,852 57,451 60	85,009 57,411 60	Commission	61,603 56,707	23,406	2,843
\$\frac{1}{1948}\$ \text{546.474} \$\text{422.533} \$\text{422.896} \$\text{236.378} \$\text{1.32.473} \$\text{54.045} \$\text{645} \$\text{645} \$\text{647} \$\text{647.891} \$\text{122.732} \$	Total	292,868	552,899		297,175	190,693	61,376	3,655	145,363	142,480	- in-	118,310	24,170	2,883
46,977 423,533 422,896 236,376 132,473 54,045 637 123,444 123,052 107,225 15,827 15,827 15,827 15,827 15,827 15,827 15,827 15,828 123,038 1,820,295 1,339,228 370,415 51,183 961,833 942,654 17,934 694,001 231,719 40,297 10,139 77,254 19,134 62,670 1,323,099 439,933 83,984 1,302,388 1,221,926 18,920 977,240 275,866	hland Empire Lumder Veneer 1 plywoog? Shake 5 shingle? Other?	548,	And the second s		236,378	23.2 p. 4.73	54,045	Paris i	112,891	122,732		106,976	15,256	159
4,343.054 3.381,221 3,330,038 1,820,295 1,339,228 370,415 51,183 961,833 943,654 17,934 694,001 231,719 (25,884 625,53) 661,385 406,544 198,171 62,670 1,245 163,174 162,134 - 172,837 40,297 40,297 107,139 17,264 886 15,230 1,148 16,107 1.994 1,302,388 1,221,926 16,920 977,240 275,866	Total	546,977	423,533		236,378	132,473	54,045	637	123,444	123,052	To a de	107,725	15,827	392
5,474,164 4,121,776 4,037,792 2,224,760 1,373,099 439,933 83,984 1,302,388 1,271,926 18,820 977,240 275,866	otal, State Vender & Dlywood ³ Shake, & shingle Stake?	4,343,054 625,804 107,199 148,107	3,381,281 562,630 77,925	3,330,038 661,385 46,369	1,820,295 400,544 3,921	1,139,128	370,415 62,670 6,848	3 1 1 1 8 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1	961,833 163,174 29,274 148,107	943 163,134 17,264 147,874	17,934	694,001 172,837 15,236 145,172	231,719 40,297 1,148 2,702	18,179 40 12,010 233
	Total	5,274,164	4,121,776	4,037,792	2,224,760	1,373,099	439,933	83,984	1,302,388	1,271,926	18,820	977,240	275,866	30,462

Used residues were not necessarily consumed in the economic area in which they were produced

Pincludes log export, and pole, post and pilling operations

 3 inland Empire combined with Central Washington to avoid disclosure

Table 10 Log consumption by timber age (Thousand board feet, Scribner log rule)

Economic area and industry	All age groups	01d growth (100+ years)	Young growth
		· · · · · · · · · · · · · · · · · · ·	(Less than 100 year
Puget Sound			
Lumber	764 044		
Veneer & plywood	764,811 54,649	209,678	FFF 132
Pulp Shake & shingle	65,611	40,083	555,133 14,566
Export	38,491	59,051	6,560
Pole, post & piling	736,398	35,232	3,259
5	11,981	366,722 29	369,676
Total	1,671,941	710,795	11,952
7		, 10, 733	961,146
Olympic Peninsula Lumber			
Veneer & plywood	729,459		
Pulp	74,528	260,959	468,500
Shake & shingle	237,375	34,154	40,374
Export ¹	53,795	34,671 50,961	202,704
Pole, post & piling	1,002,418	305,519	2,834
•	6,624	193	696,899
Total	2,104,199		6,431
	2,104,139	686,457	1,417,742
Lower Columbia			<u>ur.</u> .
Lumber	F4		
Veneer & plywood	530,021	183,366	
Pulp ²	115,173 89,956	73,681	346,655
Shake å shingle Export	8,630	71,922	41,492 18,034
Pole, post & piling1	526,625	8,346	284
. Pose a pring.		304,856	221,769
Total	1,270,405		A 6-
	1,270,405	642,171	628,234
Central Washington			-
Lumber	241 400		
Veneer & plywood ³	241,498 147,692	126,308	115 400
Pulp Shake & shingle ³	147,092	97,608	115,190 50,084
Export	210	57	50,084
Pole, post & piling		147	63
•	***	60 Mar. 87 Mar.	****
Total	389,400	224,063	
•		1,000	165,337
nland Empire Lumber			
Veneer & plywood3	331,308	164 007	
Veneer & plywood ³ Pulp ²	~~	154,927	176,381
Shake & shinale3		***	
Export		40-44	
Pole, post & piling	1,784		
Total		75	1,709
	333,092	155,002	178,090
	-		110,090
tal, State Jumber			M
eneer & plywood	2,597,097		
ulp prywood	392,042	935,238	1,661,859
hake & shingle	392,942	245,526	146,516
xport	101,126	165,644 94,686	227,298
ole, post & piling	2,265,441	94,686 977,097	6,440
•	20,389	297	1,288,344
Total	5,769,037		20,092
		2,418,488	3,350,549

 $^{^{1}}$ Olympic Peninsula combined with Lower Columbia to avoid disclosure

 $^{^2}$ Inland Empire combined with Lower Columbia to avoid disclosure

 $^{^{3}}$ Inland Empire combined with Central Washington to avoid disclosure



Table 11 Number of sawmills by mill size-class

Economic area					
and county	All classes	D	C	В	A
Puget Sound					
Island	1		1	~ ~	
King	8	3	ī	1	3
Kitsap	2	1			1
Pierce	8	1	1	2	4
San Juan	1	1	200.000		
Skagit	5	3	1	MV. No.	1
Snohomish	18	7	3	3	5
Whatcom	4	3	1	** **	***
Total	47	19	8	6	14
Olympic Peninsula	**************************************				Mark Mark Control of the Control of
Clallam	9	8	Per 100	No nie	1
Grays Harbor	9	4	1	1	3
Jefferson	3	2	444-440-	1	46 M
Lewis	10	2	2	1	5
Mason	5	1	MK No	der van	4
Pacific	5	3	1		, 1
Thurston	3	2			1
Total	44	22	4	3	15
ower Columbia	to the delimination of the second contract of	Characteristic between the contract of the state of the s	*********************		
Clark	6	4	1	1	
Cowlitz	8	2	1	100 360	5
Klickitat	5	1	1	2	1
Skamania	2	***	mis and	***	2
Wahkiakum	1	1	***	***	***
Total	22	8	3	3	8
Central Washington		Profitibilitation of the second secon	-	***************************************	***************************************
Chelan	2	so- esc	445 160	1	1
Okanogan	5	2	1	1	1
Yakima	4			1	3
Total	11	2	1	3	5
nland Empire	$\label{eq:continuous} Whiteholder pulse and pulse and the property of the pr$				
Asotin	2	1	-00° total	No.	***
Columbia	1	1	49 Ma	***	Apr. 474
Ferry	2	1		100 40.	1
Pend Oreille	2	100 100	2	400 1001	984 SEP
Spokane	3	2	1	MM AND	
Stevens	14	7	3	2	2
Walla Walla	2	1	1	**	
Total	26	13	7	3	3
, 0 5 4 7					

 $^{^1}$ Mill size-classes identified as follows: Class D mills = less than 40,000 board feet of capacity per 8-hour shift; C = 40,000 - 79,999; B = 80,000 - 119,999; A = 120,000 +

Table 12 Installed eight-hour single-shift capacity (Thousand board feet, lumber tally)

Faces and a super	Total		Mill size	-class ¹	
Economic area and county	capacity	D	C	8	A
Puget Sound	e gygyppegild felyd y gyn y glynna a a a llifnwy o an a llifn an a llifn a a llifn a llifn a llifn a llifn a l		philitique y Taphii 1990 yagilique ya 222 yeary y que que de differentique e galering en Escienciae	kirina 1990) kampun pengalanian pengalikingan pengapan kiringan diberah pananganda dipe	
Island	40		40	NA 500	***
King	954	24	40	100	790
Kitsap	402	2	alle view	40 44	400
Pierce	1,062	6	60	201	795
San Juan	5	5	We have	40° 100°	-00 WW
Skagit	183	18	40	and any	125
Snohomish	1,582	94	160	258	1,070
Whatcom	69	9	60	£30	1,070
whateom		J	00		
Total	4,297	158	400	559	3,180
Olympic Peninsula					
Clallam	218	68	etr see	mar nor	150
Grays Harbor	848	58	40	100	650
Jefferson	121	31	***	90	0.50
Lewis	1,219	9	130	88	992
Mason	833	30	130	00	
Mason Pacific	833 251	3U 13	70		803 168
				the star	
Thurston	144	4	200 344	200. 200	140
Total	3,634	213	240	278	2,903
torrain Callinabile	Si pinki liik keskiliine kunnakati keski Silisti medi dilikitak iyuunnya byaladin kemai pepunna.			n, marandi n, do di di di Markinda kadi di Sili sa da alah kalaman da da di Markingan masa di kadi di kana da	all fills from more little til til til til skale mann med klamma med mel pasmar år flast av til
Lower Columbia	100	00	70	100	
Clark	198	28	70	100	
Cowlitz	1,323	14	60		1,249
Klickitat	410	15	65	190	140
Skamania	305	***	the trie	ser sec	305
Wahkiakum	7	7	MO TON	VAN ARM	40 40
Total	2,243	64	195	290	1,694
Central Washington				**************************************	
Chelan	220	904 tak	~ ~	100	120
Okanogan	319	4	55	80	180
Yakima	525	Mile with		100	425
Total	1,064	4	55	280	725
Inland Empire					######################################
Asotin	94	4	90 No.	90	Nich Andre
Columbia	8	8	NO NO	30	NO 100
Ferry	155	10			145
Pend Oreille	142	10	142		145
Spokane	83	8	75		
				5 29 67	270
Stevens Walla Walla	651 74	56 2	140 72	176	279
Total	1,207	88	429	266	424
Total, State	12,445	527	1,319	1,673	8,926

 $[\]frac{1}{M}$ Mill size-classes identified as follows: Class D mills = less than 40,000 board feet of capacity per 8-hour shift; C = 40,000 - 79,999; B = 80,000 - 119,999; A = 120,000 +

Table 13 Number of sawmills with selected equipment by $mill\ size\text{-}class^1$

Economic area and mill size- class	Barker	Chipper	Planer	Burner	Kiln	
Puget Sound				فران پا کانت دارنده میکند افران بین در نهای در این این این این این این در این میکند این این این این در این در		
D	2	4	9	~~	2	
Č	8	8	7	1	3	
B A	5 14	6 14	5 12	der en	4 9	
Total	29	32	33	1	18	No. of Society of
,	\$4. P				* ·	
Olympic Peninsula						
D	2	4	9	1	3	
C	4	4	3	wine this	3 2 3	
В	.3	3	.3	96- 160°	3	
A	15	15	14	1	6	pigna inipapa
Total	24	26	29	2	14	
Lower Columbia	erroresson annulare entrepresson augustus annulares annular					***********
0	***	wit one	2	on war	1	
Č	3	3	3	av 24	ĩ	
8	3	3	2	MA with	1	
A	8	6	6		4	
Total	14	12	13	66 on	7	
Central Washington			an matana mandri di kacama del minima del minima del mandri del mandri del mandri del mandri del mandri del ma	inter no comentario maniferencimente menero e en encontrato de entre encontrato de entre encontrato de entre encontrato de entre en	tana alla diinemenisien kan selemena santai keen mendaan salemi saan yale salemaan	***************************************
D	164.166	107 SHI	500 and	900° 900	400 May	
č	1	1	1	1	44.64	
В	3	3	3		3	
A	5	5	5	** **	5	
Total	9	9	9	1	8	-
	minima de describación de la composição					resource faith
nland Empire				•		
D C	1 7	7	6 7	1 2		
8	2	7 3	2	۷	4 2	
A	3	3	3	No too	3	
Total	13	13	18	3	9	-
otal, State	<u></u>		0.0			
0	5	8	26	2	6	
C 8	23	23	21 15	4	10	
A.	16 45	18 43	40	1	13 27	
						tell (removate
Total	89	92	102	7	56	

 $^{^1}$ Mill size-classes identified as follows: Class D mills = less than 40,000 board feet of capacity per 8-hour shift; C = 40,000 - 79,999; B = 80,000 - 119,999; A = 120,000 +

Table 14 Number of sawmills with selected equipment by county

Economic area and county	Barker	Chipper	Planer	Burner	Kfin
Puget Sound	rusta ati iyo da data makka iiid atida da da daga mida danga ni ya da miyin iyo iyo iyo iyo iyo iyo iyo iyo ga				Manufacturi de la companya de la com
Island	1	1	1	1	
King	5	5	6		3
Kitsap	ī	1	2	49.40	
Pierce	7	ż	6	04 100	4
San Juan	/ ************************************	/ ar-m	1		
Skagit	2			ner ad-	100 mgs
Snohomish		.2	.2	Mile Sales	2
Whatcom	12	15	13	600 1000	8
	1	1	2	No. 10	1
Total	29	32	33	1	18
Olympic Peninsula	etteridesselvidensscansscansscansscans		Mikala kerindir. Banda di Alah perdak kerinan bersara yang bersara anasas	он Пайонной вый вы выной умерящих премя рыбный экспроприя определя доставления	TO AND AND THE CONTRACT OF THE
Clallam	1	2	3	2	1
Grays Harbor	Ĝ.	6	5	E- 200 100	3
Jefferson	ĭ	ĭ	1		1
Lewis	8	ĝ	10	****	6
Mason	5	5	5	***	1
Pacific	2	2	2	100 MI	2
Thurston	1	1			
			3		
Total	24	26	29	2	14
Lower Columbia	Antonia de Caración de Caració				
Clark	2	2	4	40.50	1
Cowlitz	6	4	4	40 VIII-	i
Klickitat	4	4	3	der seg	3
Skamania	2	ż	ž	***	2
Wahkiakum	4- M	900 D00	K., ola van	***	E.
Total				-	
10141	14	12	13	the min	7
Central Washington					
Chelan	2	2	2	w a	2
Okanogan	3	3	3	1	2
Yakima	4	4	4	We as	4
Total	9	9	9	1	8
nland Empire				in de mission en desir in transcer en disconer en de la decembra de la messa de la decembra del la decembra de	
Asotin	1	1	1		1
Columbia	1	£ to we	T.	- TOTAL TOTA	
ferry	1	1		404 400	mt
Pend Orefile	2		1	40-100	1
Spokane	2	2	2	400 000	1
Stevens	7	1	2	Area Area Area Area Area Area Area Area	1
Stevens Walla Walla	1	7	10	2	4
Total	13	1 13	2 18	3	1 9
	**		\$ \J	J	3
otal, State	89	92	102	7	56

Table 15 Number of sawmills by headrig type and size

Economic area		Circul	ar saw		Ba	ınd saw		G	ang saw		Chi	pping s	aw	Scra	gg
size class ¹	2 ft.	4 ft.	6 ft.	8+ ft.	4 ft.	6 ft.	8 ft.	? ft.	3 ft.	4 ft.	2 ft.	3 ft.	4 ft.	2 ft.	3 ft.
Puget Sound	inier (consumenter la référénce prot		ad de representación de la Selecta (1984)			المراجعة والمراجعة و					anny gang gang political palari from from	assiya marana di kanina fini da		<u></u>	
Ď C	1	14	1	2	1 6	2		****	Silver Solds.	MR 400	1	000 San 104 S00	***	tale also	***
В		1	1		3	1	00 au			***	2	***		1	
Ā	day Wills	-		***	7	5	1	ar ==	es: av	War late.	2	** **	del sell	2	***
Total	1	15	2	2	17	8	ă.	***			5		de su	3	*****
)lympic Peninsula	gyglad gywygdydd o gallon dynwy gydd yr	kegy nalyerianski telefundi pyndi pyys i yfirendennal	ingsi e kilokhila je mian i eriji a i erili lii ili ili il		riaestinaaesta rinaiarin finite			The control of the co		000000000000000000000000000000000000000	***COLEGATION PURCHASIONS				
D	2	8	5	6	3	2	NR TO	~~	***		***	No. and	***	1	er co
C B	1	***	66 VC	1	2	1	** **		40 40 Mr. 40	400 Aug	1	900 May 100	900 Add	50 Hz	ev -es.
Å	1	494 GK	44 404	***	8	5	200 100	1	** **	der son	4	Min. squ	600 7000	2	nu .n
Total	4	8	5	7	14	8 4		1			5	45 104		3	02 Mg
Lower Columbia D C B A	# E COM AND COMPAND.	## ***********************************	2	100 mm mm	3	3 3 3	2	delle color anni color gg del anni	2	Note dada dada mida elek dada dada dasa		Min allo Min Ada Min Ada Min Ada	Wild with white man with that with war	200 Au	56 No. 100 No.
Total	1	4	2	1	3	9	2	1	2	200	1	**************************************	or 15	1	Six dis
entral Washington			toktiki obludu tidili kilo kaled			Kamin den de en de e					AND THE STATE OF T			- AM-M-V-MOT-downer-F-Resolu	
D		1	1	40 40	our ean.	96 60	40 KW	eter toks	400 160	100 100	** ***	99 au	der test	the size	400 400
C B	1	sie en	40° 441	00 00 01 00	1	2	NAT AND	~ ~	** **	40° 400	1	00 ca	No. 100		
Å	ar on	INT Yes	W 60	de av	~	3	400 400	40.00	***	***	2	10% 100	92 ED		Me Mar
Total	1	ermanenni rismretuo niinoriumni V	1	aministratura estatura estatu Estatura estatura e	2	5		in an	dik sm	итосковточнае спосования. Мо-гр	3	nocennos e o manuel de concentración de concentración de concentración de concentración de concentración de co		Ministration of the second of	adam and the field of the field of the analysis
nland Empire				inghida ngama na mulin melanggi ini maguyi											
D C	2	8	2	800 MM	1	500 AH	***		~ ~	AR 404	No. Sale	90 M	100 106 100 108	1	
8		~~			3					**	***				
A	NO 40	201 00	NV 420	MIX MAP	3	Nº 10	=	HK 100	200 MA	-		mir sim	agur talle		No. 444
Total	2	11	2	40° 140°	11	Mex and	M VIS	200	N/ w/	40 64	W 19	alir va		1	
otal, State	emanamenaneanea	and the Commission of the Comm												**************************************	
D C	6 1	35 3	Prof.	9	5 12	7				ann 400	2			1	
8	1	1	1	1	9	7		 1			3		***	1	2+ 40 10- 20
Å	i				21	16	3	1	2	No. 100	9			. 5	50- Sal
Total	9	39	12	10	47	30	3	2	2	elim Jerimellielerikkeiskiristiske	14		40. 30	8	0. 10

 $\frac{1}{M}$ Mill size-classes identified as follows: Class D mills = less than 40,000 board feet of capacity per 8-hour shift; C = 40,000 - 79,999; B = 80,000 - 119,999; A = 120,000 +

Note: Sizes of headrigs are upper limits. Thus, the 6-foot size class includes saws 49 through 72 inches

Table 16 Number of sawmills by tenure of present ownership by site occupancy

				Tenure	of present m	ill ownership	(years)	
	resent ze-class ¹	Site occupancy (years)	All mills	0-2	3 5	6-10	11-20	214
D		0-2 3-5 6-10 11-20 21+	2 9 15 17 21	1	8	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	16 3	1 15
	Total		64	4	8	17	19	16
С		0-2 3-5 6-10 11-20 21+	2 2 2 4 15	2	2	2 1 4	2 3	
	Total		23	2	2	7	5	7
В		0-2 3-5 6-10 11-20 21+	2 1 3 12	ne de se se se se se se se se	2	 1 1	 3 2	
	Total		18	1	4	2	5	6
A		0-2 3-5 6-10 11-20 21+	1 1 7 9 27	1	100 min	7 3	 8 6	 1 17
	Total		45	2	of the state of th	10	14	18
Total	State	0-2 3-5 6-10 11-20 21+	3 14 25 33 75	2	13	1 1 24 2 8	 29 14	 1 2 44
	Total		150	9	15	36	43	47

 $^{^1}$ Mill size-classes identified as follows: Class D mills = less than 40,000 board feet of capacity per 8-hour shift; C = 40,000 - 79,999; B = 80,000 - 119,999; A = 120,000 +

Table 17 Average number of operating days

Economic area and mill size- class!	Average number of operating days per year	Economic area and mill size- class ¹	Average number of operating days per year
Puget Sound	den darken kontrologia daran terrebangan dari kengan dari berbana kenandaran dan penjagah kenangan pendalangan	Central Washington	
D C	147 190	D ² B	185 178
B A	183 196	А	232
Average	174	Average	204
Olympic Peninsula		Inland Empire	
D	110	Ď	66
C	178 233	C B	228 243
B A	201	Å	246
Average	156	Average	153
ower Columbia.		Toţal, State	
D	92	D	112
C	197	C	203
C B A	239 228	8 A	210 210
Average	176	Average	167

 $^{^1}$ Mill size-classes identified as follows: Class D mills = less than 40,000 board feet of capacity per 8-hour shift; C = 40,000 - 79,999; B = 80,000 - 119,999; A = 120,000 +

 $^{^2}$ Size-class D includes size-class C for Central Washington

Table 18 Type of wood consumed (Thousand board feet)

		Roundwood		0t)	ner
Economic area and mill size- class1	All roundwood	Sound logs	Utility logs	Peeler cores	Cants
	Sc	ribner log ru	1e	Lumber 1	tally
Puget Sound				# #	
D	15,487	14,787	700		13
C B	46,237 96,205	45,389 86,969	848 9,236		13
A	606,882	556,978	49,904		
Total	764,811	704,123	60,688		13
Olympic Peninsula	squid des formandes helps on processor communicative destroys and de	ned popie il plateage ned hage e sia en sia esti blevo piur y opi a dibelogique pade empleo siate			54-1-47-1200-C-1-44-4651-71-1-1-1
D	21,111	20,425	686		1,39
C	39,553	39,153	400	***	Mp 100
8	92,520	72,960	19,560	10 742	
A	576,275	525,761	50,514	10,743	411 sqs
Total	729,459	658,299	71,160	10,743	1,39
ower Columbia	Decision-Management (Management (Managemen				
D	1,335	1,305	30		min upo
C B	37,555	37,240	315	46.56	40. sin
A	66,975 424,156	66,037 393,084	938 31,072	ander spijer	
Total	530,021	497,666	32,355		
Central Washington			**************************************		
D and C ²	7,983	7,933	50	one since	-
В	48,597	42,418	6,179	86 89	16. 66
A	184,918	167,338	17,580	1,978	5,36
Total	241,498	217,689	23,809	1,978	5,36
inland Empire			3 4		
D	1,696	1,555	141		nic on
C B	113,258	113,258	215	80 60	100 to
A	73,256 143,098	73,041 143,098	215	spin son	40° NO
Total	331,308	330,952	356		
			1 1	**************************************	**************************************
otal, State	47 616	** **	1		
D ₃	47,612	46,005	1,607		1,39
C B ⁴	236,603 377,553	235,040 341,425	1,563 36,128	with med time state	13
Å	1,935,329	1,786,259	149,070	12,721	5,36
Total	2,597,097	2,408,729	188,368	12,721	6,89

 $^{^{1}\}text{Mill}$ size-classes identified as follows: Class D mills = less than 40,000 board feet of capacity per 8-hour shift; C = 40,000 - 79,999; B = 80,000 - 119,999; A = 120,000 + 2Combined to avoid disclosure

 $^{^{3}}$ Total for Class D includes Class C for Central Washington

Sawmills

Table 19 Age of logs consumed (Thousand board feet, Scribner log rule)

Economic area and mill size- class1	All age groups	Old growth (100 + years)	Youth growth (less than 100 years)
Puget Sound	officers state from the consistency of the first parameters are transported as the consistency of the consis		АННОСТИВНОСТВИКАТИ СО СТИТЕНТИ В СТИТЕНТИ В СТИТЕНТИ В СТИТЕНТИ В
D	15,487	463	15.004
C	46,237	20,188	15,024
В	96,205	26,443	26,049
A	606,882	162,584	69,762 444,298
Total	764,811	209,678	555,133
Olympic Peninsula	laphymint and environmental and a recipil incurred in physical association of the second and ass		
D	21,111	6,045	15 055
C	39,553	3,800	15,066
В	92,520	28,416	35,753
A	576,275	222,698	64,104 353,577
Total	729,459	260,959	468,500
ower Columbia		Memory and a state of the second department of the second and the	3.2.5 dealah delekiringnya gengsi delakan Aperican Addisensi delekiringnya kenyang digilak delekiring delekiri
f)	1,335	879	
č	37,555		456
8	66,975	7,530 39,591	30,025
A	424,156	135,366	27,384
	ACA B TOO	100,000	288,790
Total	530,021	183,366	346,655
entral Washington	38 Gardina Admini Angajaja ping Admini sacajah un gapan pengangan pengan pengangan pengangan pengangan pengangan pengangan pengangan pengangan pengangan pen		kirin dalambahan mada hija yang saman cana zizipizi dalamban mengangan saman dalam ili bawah dan pendangan dalambah dalambah mengan bawah saman saman bawah saman sama
D and C ^c	7,983	6,556	1,427
В	48,597	26,449	22,148
A	184,918	93,303	91,615
Total	241,498	126,308	115,190
nland Empire	Jahlandellandischen der Ander der Bedeutschen der der der Gestelle der der der der der der der der der de		de the second profession of the Control of the Cont
D	1,696	516	
C	113,258	52,594	1,180
В	73,256	54,292	60,664
A	143,098	47,525	18,964 95,573
Total	331,308	154,927	176,381
tal. State	willengen Angligh Association (Association) des la distribution de la marchian (Association) de la marc		
ital, State	47,612	14 850	w
č	236,603	14,459	33,153
8	377,553	84,112	152,491
A	1,935,329	175,191 661,476	202,362 1,273,853
Total	2,597,097	935,238	1,661,859

 $^{^1\}rm Mill$ size-classes identified as follows: Class D mills = less than 40,000 board feet of capacity per 8-hour shift; C = 40,000 - 79,999; B = 80,000 - 119,000; A = 120,000 +

 $^{^{2}}$ Combined to avoid disclosure

 $^{^3\}mathrm{Total}$ for Class D includes Class C for Central Washington

Sawmills

Table 20 Log consumption by timber age (Thousand board feet, Scribner log rule)

Economic area and county	All age groups	01d growth (100 + years)	Young growth (less than 100 years)
Puget Sound	maka apampilisan (.g., a dan titrapiya peramin negirin niya ya pedininin, ya inin kabali dan bada tita dali da		en de la compressión de la com
Island/Kitsap/			
San Juan ¹	144,228	State Sear	144,228
King	114,764	63,352	51,412
Pierce	159,861	27,861	132,000
Skagit	19,985	2,312	17,673
Snohomish	318,298	112,140	206.158
Whatcom	7,675	4,013	3,662
Total	764,811	209,678	555,133
Olympic Peninsula	10 000	5,244	7,988
Clallam	13,232	5,244 34,646	140,214
Grays Harbor	174,860		7,997
Jefferson	31,626	23,629	147,673
Lewis	275,446	127,773	
Mason	139,593	69,652	69,941
Pacific	72,684	15	72,669
Thurston	22,018		22,018
Total	729,459	260,959	468,500
Lower Columbia		na a saarahun, akusa muuda ah makka koosi oo sii koosakkeesta saaraka saaraka saaraka saaraka saaraka saarakka	
Clark	25,665	13,020	12,645
Cowlitz	369,751	109,587	260,164
Klickitat .	92,273	36,938	55,335
Skamania/Wahkiakum ¹	42,332	23,821	18,511
Total	530,021	183,366	346,655
Central Washington	00 017	co rea	20 250
Chelan/Okanogan ¹	98,917	68,567	30,350
Yakima	142,581	57,741	84,840
Total	241,498	126,308	115,190
Inland Empire	un matematica de la constante		makan digan nga disangga da Sandan da Sandan da Sandan nga pangan nga makan hang makan da sandan
Asotin/Walla Walla 1	54.867	16,293	38,574
Columbia/Ferry .	47,631	4,762	42,869
Pend Oreille/Spokane		26,266	27,866
Stevens	174,678	107,606	67,072
Total	331,308	154,927	176,381
Total. State	2,597,097	935,238	1,661,859

 $^{^{1}}$ Combined to avoid disclosure

Table 21 Log inventory changes, log consumption, and apparent log receipts (Thousand board feet, Scribner log rule)

	word	og inventory			
Economic area	January 1, 1984	December 31, 1984	Net change	1984 Log consumption	Apparent 1984 log receipts
Puget Sound	120,662	67,724	-52,938	764,811	711,873
Olympic Peninsula	86,168	71,945	-14,223	729,459	715,236
Lower Columbia	62,467	61,818	- 649	530,021	529,372
Central Washington	53,378	49,264	- 4,114	241,498	237,384
Inland Empire	67,213	46,859	-20,354	331,308	310,954
Total, State	389,888	297,610	-92,278	2,597,097	2,504,819

Table 22 Ownership origin of logs consumed by mill size (Thousand board feet, Scribner log rule)

						Forest	industry	
Economic area and mill size- class ¹	All owners	State	National Forest	Bureau of Land Management	Other public	Own wood supply	Other wood supply	Farmer and miscellaneous private
Puget Sound			P. D. dt		de et es	Comprised Control of the Control of		
D C	15,487 45,237	426 5,038	509 25,700	164 - 464	262 1,306	2,413	1,352 5,033	12,938 6,747
В	96,205	19,223	28,160	260-446	4,832	6,750	29,080	8,160
A	606,882	57,135	156,684		459	246,860	110,789	34,955
Total	764,811	81,822	211,053	400 400	6,859	256,023	146,254	62,800
Olympic Peninsula			ette a fysioneestid had tireen, een er ûnd de stûd termidel ûngdûneel pen	And Constituted Anniel Annies, a segrection and published the Annies and Section (Constitution and Section Ann			fall and fall could grow file large for much agree plane and many consideration of the fall could be supplied to the fall coul	
Ď	21,111	1,494	1,183	with stip	₩ 40	5	11,125	7.304
C B	39,553 92,520	4,400 34,416	3,000 14,628	200 100	ear ca-	15,300	7,003 21,600	25,150 6,576
Ä	576,275	20,889	258,275	w w	4,400	190,120	86,777	15,814
Total	729,459	61,199	277,086	50% 199b	4,400	205,425	126,505	54,844
Lower Columbia	N24/2006cidBaladdishipind; and advance a distinct of contract	phinoideada nideilleann sha pipulan manain sapandhill	a purmigri prijarima jemnijem pi prija iprima na inipropej po nijem u diprija.	el-assimishmanusviaasmana senas muon-usmaisvusmiasva				
D	1,335	5	5	24 40	44 day	data data	800	525
C	37,555	7,027	15 555	44- AN	2,341	18,107	10,080	* **
B A	66,975 424,156	16,023 18,715	15,829 56,510	966 MB	4,410 340	22,725 244,614	81,200	7,988 22,777
								naponisistania) magaya musikii kininki kihika musku makininini kaniya uginisian
Total	530,021	41,770	72,344		7,091	285,446	92,080	31,290
Central Washington	7 600		u wywysa.					
D and C ²	7,983 48,597	4,727 90	1,773	Sales reduce	18,004	00° 00°	wat note	1,483 19,739
A	184,918	14,166	85,716	W. 100	38,863	36,111	3,928	6,134
Total	241,498	18,983	98,253	ope was	56,867	36,111	3,928	27,356
Inland Empire		***************************************	inn ach linner aile an mach Ceadain in an an Cealain in bhaile an de mac	inan kidaman kerija sa se a maja kapan panga kapan panga		Philocometonocometonocalizationshipsucati		1860-tal Politiciani della indica della Palata della Palata della Constituta della Constituta della Constituta
D	1,696	30.00	256	TOP AND	100	day non	900 000	1,340
C	113,258	1,200	44,182	0.50	2,974	26,291	5,000	33,611
B A	73,256 143,098	7,240 12,774	10,338 64,448	268 386	6,659 16,547	27,297 23,388	where redistri	21,454 25,555
	ALL COMPANIES AND		*					
Total	331,308	21,214	119,224	654	26,280	76,976	5,000	81,960
Total, State	MANAGEMENT							
D'	47,612	6,652	3,726	Acc -00	362	5	13,277	23,590
C B	236,603 377,553	17,665 76,992	72,882 79,719	268	6,621 33,905	46,811 72,072	27,116 50,680	65,508 63,917
Å	1,935,329	123,679	621,633	386	60,609	741,093	282,694	105,235
Total	2,597,097	224,988	777,960	654	101,497	859,981	373,767	258,250

 $^{^1\}mathrm{Mill}$ size-classes identified as follows: Class D mills = less than 40,000 board feet of capacity per 8-hour shift; C = 40,000 - 79,999, B = 80,000 - 119,999; A = 120,000 +

²Combined to avoid disclosure

 $^{^3\}mathrm{Total}$ for Class D includes Class C for Central Washington

Sawmills

Table 23 Ownership origin of logs consumed by county (Thousand board feet, Scribner log rule)

Tanana ta						Forest	industry	
Economic area and mill size- class	All Owners	State	National Forest	Bureau of Land Management	Other public	Own wood supply	Other wood supply	Farmer and miscellaneous private
Puget Sound		ADDRONO OLIVER COMMUNICATION C	overfective that in the high process and an extension of the particular pro-		Walded any about the contract and the co			
Island/Kitsap/								
Juan ¹	144,228	42,000		MF 40.	ex an	44 000	F7 F0F	
King	114,764	1,900		66 Me		44,259 87,300	57,505	464
Pierce ^l Skagit	159,861	5,040	41,062	the sec	791	40,440	8,398 44.095	580
Snohomish	19,985	7,191	1,208	trie tet.	381	154	3,153	28,433 7,898
Whatcom	318,298	24,966		***	4,962	83,870	32,378	24,275
so in Property	7,675	725	4,350	400 100+	725	** vis	725	1,150
Total	764,811	81,822	211,053	de salam de la decimiente de la comunicación de la comunicación de la comunicación de la comunicación de la co Vider sucio	6,859	256,023	146,254	62,800
Olympic Peninsula				Howard Constitution of the			Martin Control of the	
Clallam	13,232	79.04.76	9 500					
Grays Harbor	174,860	727 2,100	2,364	No. 40	MIC GEL	976	4,038	5,127
Jefferson	31,626	23,825	37,998	min tops	49 40	91,973	41,168	1,621
Lewis	275,446	27,947	4,428 164,518	this and	Mr. Jak	NA Seg	1,872	1,501
Mason	139,593	£1,5741	67,778	de que	He co.	21,364	28,261	33,356
Pacific	72,684	No say	07,770	der oop. der ope	this age	52,766	18,588	461
Thurston	22,018	6,600	99 M	ner sile.	4,400	38,346	32,563 15	1,775 11,003
Total	729,459	61,199	277,086	gamellovossocionistane en esti substantane en esti substantane en esti substantane en esti substantane en est Noto 1861	A 400	15 15 17 18 18 18 18		
Lower Columbia	White the second control of the second contr	,	21. 4000		4,400	205,425	126,505	54,844
Clark	nr cce	*						
Cowlitz	25,665	766	11,482	the sail	say age	rice real	10.080	3,337
Klickitat	369,751	16,170	11,605	4M 400	** 25	239,681	81,200	21,095
Skamania/Wahkiakum ¹	92,273 42,332	24,664	12,167	** **	7,091	42,725	in no	5,626
	76,332	170	37,090	All side	404 ata	3,040	800	1,232
Total	530,021	41,770	72,344		7,091	285,446	92,080	31,290
Central Washington	WWW.halland.com.com	**************************************	***************************************		- Inches de la companya de la compa	Palaininina (Maraya Panainina ay sayak (Maraya Calcula Sandanina		
Chelan/Okanogan ¹	98,917	13,554	36,866	100 444	12 001			
Yakima	142,581	5,429	61,387	to to	13,951 42,916	10,463 25,648	3,928	20,155 7,201
Total	241,498	18,983	98,253		56,867	25 111		
		***************************************			30,607	36,111	3,928	27,356
Inland Emptre								
Asotin/Walla Walla ¹	54,867	vite Min	16 AEE					
Columbia/Ferry ¹	47,631	sir on	16,455 35,559	lings again	0 400	23,291	ete sau	15,121
Pend Oreille/Spokanel	54,132	1,200	19,200	Mary Aller	9,482	ent tap	No see	2,590
Stevens	174,678	20,014	48,010	654	2,974 13,824	53,685	5,000	30,758 33,491
Total	731 300	**************************************						- p
	331,308	21,214	119,224	654	26,280	76,976	5,000	81,960
otal, State	2,597,097	224,988	777,960	654	101,497	859,981	373,767	258,250

¹Combined to avoid disclosure

Table 24 Number of mills dependent upon ownerships

1 1 1 1 1 1 1 1 1 1	When the second	Yo harmon de proposado de la constanta de la c	4ations	National Forest	Date of the state	added described and a second district of	Sti	State		Lan	Bureau of Land Management	of yement		0.0	Other Public	2	ı	ð	ns paom umo	Forest Industry supply 0	Indust	y Other *	y Other wood supply	113	F & rme	or & my	Farmer & Miscellaneous private	8 0 0 0
1	onomic area	ал му далана протого		7,000	AND parameter Williams	Commence of the Commence of th		market property and a prophosometric property of the control of th	unassayayahmalifa jayayah		Table de La Company de la Comp	VI DANGER CONTRACTOR C	Oppose a management of the original of	Depend	tency per	rcent									Section of the section of		encymiqueniapoliminida	
23 10 1 10 10 15 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	d mill-size-class.		1-33	34-56	67-100	0	1-33	34-66	67-100	0	1-33	34-66	67-100			1		1-33	34-66	67-100			-	67-100	0	1-33	34-66	67-100
15 1 13 10 15 2 1 14 15 1 15 1 1 15 1 1 15 1 1	get Sound D C E B A	2000	45 mm mm 45	The second secon	4 4 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	5440	mm-8		4 + + + 1 1 1	01 00 04 14	£ 3 \$ 5 £ 1 2 2	9 E 2 3 2 4 5 9	2 5 5 T 5 5 8 T						1 1	: ! ! ! !!	26	one that the left	ين مينو الريز يبنو الريز	arred & Prince among		1 45 67 70	C 1 1 C	- + + + + + + + + + + + + + + + + + + +
1	Total	23	0.1	and a	1.3	30	3.5	2	da de	47	agrand digit contributes common and season of the season o	de la constante de la constant	AND			9,000,000,000,000		197	3	e .	82	10	9	Local manufacturity depoise made	15	11	*	17
1	ympic Peninsula D C B A	10 mm in	5 : 2	more in the statement of the statement o	Come me Co	28 29	2000	+ 1 4 1 ± 1 i 1	prof \$ 000 \$	52 4 m st	4 8 E E E E	2 F 8 F 6	g I 8 6 g g g g						~ ; ! **	\$ 1 £	ē w ⊣ di	and to see the	a in the second	ACO	w i me	maan	es ; ; = -	12 11
1	Total	2.5	9	and a suppression of the suppres	6	23	1.5	No. oz	2	44		No. of the last of	90 +					ゼ	53	p====	38	4	ers delande	7	18	89	4	14
14 3 2 3 10 12	Wer Columbia DC BB A	har head most head		1 5 mm hung	\$ 1 mm Chr	- 2 - 1	~~~	10 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		60 m m 60	1 1 1 1 1 2 2 4	3	é s s č ž š s s					111"	ا سن وري مند	E and E strip	rano)	\$ 7 \$ \$ \$ \$ \$ \$	ي مدو يسي غ		1100	8 8 8 8 8 8 5 8	r-
1 6 3 1 4 6 1 10 1 10 1 1	t est	***	Contract of the Contract of th	2	T. C.	10	1.2	1	X + +	2.2	8	ar me	to	-					₩ 1000000000000000000000000000000000000	*	0E)		P P P P P P P P	4	9	ō,	1	e.
1 6 3 1 4 6 1 11 6 3 2 8 2 1 10 1 12 1 11 11 1 13 1 13 10 1 2 1 2 1 2 1 1 2 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 2 1 3 1 2 1 3 1 3 1 3 1 3 1	ntral Washington D and C ⁴ B	owner I II	898	1 04		2 2 2 -	1 460		10 E 5 9 20	mmu	\$ 8 8 \$ 8	4 8 1	8 k ±						\$ 9 end 3 \$	2 8 8 6 8 8	en en est	16	3	\$ \$ £	3 6 67%		s of the second	24 1 1
12	total		9	Community of the contract of t	general general statements and the statement of the state	42	9	1	an or	11	* P	4 -			Ca. Security	ngadinenski project				Pa es	10	p-4		diamento de la companya del companya del companya de la companya d	m	9	2	2
14 6 1 5 21 5 24 2 19 6 1 21 1 3 1 25 25 2 1 25 2 1 25 2 15 2 15 2 2 2 15 2 2 2 2 2 2 2 2 15 2 2 2 15 2 2 12 3 3 2 144 1 15 2 2 2 1 12 3 3 2 148 2 125 22 2 1 114 11 16 9 11 15 3 111 15	Jand Empire C S B	128	Si constanti di Co	\$ 3 8 Proof.			The second secon	S 9 5 1 5 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	\$ \$ 1 F	m ~ 20 Cd				I	especial and colors as	de constant de la con		1		2 E E	13	E P P P	2 years 4 3 5 7 7	St.		-000	E I I I I I I I I I I I I I I I I I I I	2001
51 10 1 3 54 9 1 1 65 1 62 2 164 1 64 1 65 2 15 2 15 2 15 15 10 10 3 13 54 9 11 1 17 11 11 15 11 11 15 11 11 15 12 11 11 15 11 11 15 11 11 15 11 11 15 11 11	Total	427		And the second s	S. S	2.1		The state of the s	dr 30	24	2	an an annual description of the second	***************************************	1.9	v) page page and a second	4 14	-		3	pad	52	30 A		40 - 40	4	600	li d	14
77 31 11 31 92 53 3 2 148 2 125 22 2 1 114 11 16 9 111 15	රුදුම්, State ගි A	511	Section 1	and had for	PO 10 40 40 40 40 40 40 40 40 40 40 40 40 40	14		grow growp g g	group } served f	22 17 44		\$ 3 F & E E S E	5 % 9 kg g g T 8	351742	NW 50	Table Committee			e column de la col	107 100	55 115 29	2000		p. 60 m 42	2455988	5 8 17 17	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	5211
	Total	77		11	3.1	26		*	53	148		1	1		22	~			16	ō.	111	15	10	14	46	40	0.1	54

 $^{1}\rm Hill$ size-classes identified as follows: Class B mills " less than 40,000 board feet of capacity per B-hour shift; C * 40,000 - 79,999; B * 80,000 - 119,999; A * 120,000 +

²Combined to avoid disclosure

Stockal for Class D includes Class C for Central Washington

Sawmills

Table 25 Log consumption by species, by mill size-class¹ (Thousand board feet, Scribner log rule)

Economic area and mill-size-class	All Specie	Douglas es fir	Hem1oc	True k Firs	Spruce	Ponderosa pine	Lodgepole pine	Western redcedar	Other softwoods	Hardwood
Puget Sound				etter Allentin et volk ett in die der Einstein ein der eine der	Lang-ka-anna no manda na ma	ikishi di jelaki daliki kishi kishinan ke a dipana dipapanan pagapanan ngapaya ang	et element en	and the state of t	all districts (Signer) i form de Alembaron de Les Signers y contempo y y y compression y com	
D	15,487	4,491	378	in m	WA 200	***	90.00	5,602	75	4,941
Č	46,237	16,815	10,552	3,320	***		Min Nor	6,160	Mr Mg	9,390
B A	96,205	3,167	22,073	3,572	***	** **	***	20,619	No. No.	46,774
٨	606,882	400,985	187,694	5,040	215	AN OR		12,948		
Total	764,811	425,458	220,697	11,932	215		** **	45,329	75	61,105
Olympic Peninsula					in de liver and the suite region and region and an extension of		THE PERSON AND THE PERSON ASSESSMENT ASSESSM	Tright Colonic Calabi destion tils a vision extinuit piece a minimus paga proposado que cope	and the second s	
D	21,111	1,856	30	1	96	W 141	3	10,625	NOT MA	8,500
Ç	39,553	2,240	2,560	2,000	***	Set see	44.50	***	Oliv dans	32,753
B A	92,520	600	27,312	**	1,800	00 100	AR MIT	the saw	11,808	51,000
A	576,275	260,605	266,161	27,333	1,135	e in	2,099	18,942	ndr eq	***
Total	729,459	265,301	296,063	29,334	3,031	nde ana	2,102	29,567	11,808	92,253
Lower Columbia	rinnorid-niddroyunnansilusi-bossanauvoos	Orden Carlos (Carlos Carlos Ca	DOS CONTRACTOR DOS CONTRACTOR SELECTIVA CARRA	Photograph and Anniel State State and Constitution of the State of the	Million Control of the Control of the Control of Contro	THE CONTRACT OF THE PARTY OF TH				ini
Đ	1,335	775	29. Str.	47	320	95	00-10-	94	** **	4
C	37,555	17,340	×- w	4,449	40° 700	11,709		4,057	90 No.	-
В	66,975	18,145	94 au	6,615	n= 40	42,215	∞ ∞	*****	dia min	the rules
A	424,156	325,450	47,024	16,311	to es	2,464		32,168	739	
Total	530,021	361,710	47,024	27,422 `	320	56,483	** **	36,319	739	4
Central Washington	econol-resolvativenum esse samera e	iller - Construenten mineriore en	-					District Marketinia Consistencia de Consistencia de Australia de Consistencia	Trive Columnia International August Columnia International August Agency (August Agency (August Agency (August Agency (Agency	
D and C ²	7,983	6,683	***	mini salau	792	90	391	No 26	27	
8	48,597	12,436	3,089	830	411	30,803	***	411	617	
A	184,918	39,880	952	22,821	2,576	110,542	1,666	119	6,362	***
Total	241,498	58,999	4,041	23,651	3,779	141,435	2,057	530	7,006	Bild with
Inland Empire	CHARLES AND ACTUAL PROPERTY OF THE PARTY OF				- Company of the Comp		interioristic control and the control of the contro			
D	1,696	808	3	66		286	191	12	320	10
C	113,258	39,300	13,194	3,283	891	30,904	8,197	7,939	9,550	10
В	73,256	21,582	2,373	2,948	3,883	36,388	3,327	2,755	~~	84.40
A	143,098	68,064	16,063	***	5,704	22,038	27,237	2,852	1,140	n- 10-
Total	331,308	129,754	31,633	6,297	10,478	89,616	38,952	13,558	11,010	10
[otal, State	Verballin illimisis mattorijat opsisosopologopologopologo		A THE RESIDENCE OF THE PARTY OF	ti till skill					***************************************	
03	47,612	14,613	411	114	1,208	471	585	16,333	422	13,455
C	236,603	75,695	26,306	13,052	891	42,613	8.197	18,156	9,550	42,143
8	377,553	55,930	54,847	13,965	6,094	109,406	3,327	23,785	12,425	97,774
A	1,935,329	1,094,984	517,894	71,505	9,630	135,044	31,002	67,029	8,241	
Total	2,597,097	1,241,222	599,458	98,636	17,823	287,534	43,111	125,303	30,638	153,372

 $^{^1\}rm Mill$ size-classes identified as follows: Class D mills = less than 40,000 board feet capacity per 8-hour shift; C = 40,000 - 79,999; B = 80,000 - 119,999; A = 120,000 +

 $^{^{2}\}mathrm{Combined}$ to avoid disclosure

 $^{^3\}mathrm{Total}$ for Class D includes Class C for Central Washington

Table 26 Log consumption by species, by county (Thousand board feet, Scribner log rule)

Economic area and industry	All species	Douglas fir	Hemlock	True . Firs	Spruce	Ponderosa pine	Lodgepole pine	Western redcedar	Other softwoods	Hardwoods
Puget Sound	nici kini mini mini kangangangan kangang di dalam sepiraka	ui (più injulei ne in engant mal 100 ahri ant ilian) an faun làith àiri à bea				AND AND THE PROPERTY OF THE PR	ANTHALO PROPERTY AND POTO CONTRACTOR CONTRAC		acedination authorized the control of the control o	
Island/Kitsap/ San Juan ^l	144 000	140 270	755	607-606	20.00			32	63	
King King	144,228 114,764	143,378 57,692	49.504	4,572		AL 10.	20 20	2,986	10	
Pierce	159,861	77,588	67,853	4 4 3 / 5	215	~ ~		12,431	10	1,774
Skaqit	19.985	4,261	3.502	***		40 -46	as- 400	4,499	44.39	7.723
Snohom1sh	318,298	141,759	97,633	5,040	***	#0 V0	No. 104	23,923	2	49,941
Whatcom	7,675	780	1,450	2,320	inter tito International publications philosophic			1,458		1,667
Total	764,811	425,458	220,697	11,932	215	nio de	400. 400	45,329	75	61,105
Olympic Peninsula	vivedelikamentinamidumimiuvinniskerimi									
Clallam	13,232	1,734	2,363	1	983	44.56	all are	8,151	200 400	
Grays Harbor	174,860	66,670	89,235	6,980	1,818	100 000	3	3,154	96.96	7,000
Jefferson	31,626	3	17,712			ole ski	96.49	2,103	11,808	
Lewis	275,446	71,358	106,329	16,224	224	HIS. 180	224	5,053	W0. HO	76,034
Mason	139,593	84,352	35,688	6,129	www.miss	80×10×	1,875	11,088	*** ***	461
Pacific	72,684	19,181	44,736	see sile	6	to set	hit de	3	400 min	8,758
Thurston	22,018	22,003	ne en					15		***
Total	729,459	265,301	296,063	29,334	3,031	44.49	2,102	29,567	11,808	92,253
Lower Columbia										
Clark	25,665	25,585		de de	site ser	tie oat	46 40	78	NEC 166	2 2
Cowlitz	369,751	292,408	38,035	3,233	MI ME	MD 188	1007 -000	36,073	No. Alle	2
Klickitat	92,273	21,703		16,551	***	54,019	NG ANY		**	***
Skamania/Wahkiakum ¹	42,332	22,014	8,989	7,638	320	2,464		168	739	to ex
Total	530,021	361,710	47,024	27,422	320	56,483	due and	36,319	739	4
Central Washington					**************************************		raadangs aagoogga aageargh lasjonaaan ay erffin jaar oo		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	**************************************
Chelan/Okanogan	98,917	24,054	4,041	3,095	3,779	59,555	2,057	530	1.806	401 000
Yakima	142,581	34,945	20- 40 NATIONAL CONTRACTOR	20,556	***	81,880		** ***	5,200	***
Total	241,498	58,999	4,041	23,651	3,779	141,435	2,057	530	7,006	** ***
Inland Empire			munaumovouros es quadrio en como mo							
Asotin/Walla Walla 1	54,867	18,068	12,687	-in- no	3,883	14,582	647	eter dat.	4,990	10
Columbia/Ferry ¹	47,631	25,289		40		6,637	15,645	***	20	
Pend Oreille/Spokane		13,556	2,883	1,783	891	22,781	***	7,678	4,560	No. 160
Stevens	174,678	72,841	16,063	4,474	5,704	45,616	22,660	5,880	1,440	W As
Total	331,308	129,754	31,633	6,297	10,478	89,616	38,952	13,558	11,010	10
Total, State	2,597,097	1,241,222	599,458	98,636	17,823	287,534	43,111	125,303	30,638	153,372

 $^{^{1}}$ Combined to avoid disclosure

Table 27 Production and disposition of wood and bark residues by mill size-class¹ (Tons, dry weight)

Economic area and mill size-	A11	residue		Woo	d residue	and the same	Bark	residue	
class	Total	Used ²	Unused	Total	Used ²	Unused	Total	Used ²	Unused
Puget Sound	-								alakaki marindi masa adi masa masa ay, aaga a
D	20,227	17,893	2,334	15,137	13,404	1,733	5,090	4,489	601
C B	77,969	77,780	189	60,154	60,006	148	17,815	17,774	41
A A	148,591 1,056,540	148,591 1,010,728	45,812	112,690 826,937	112,690 792,037	34,900	35,901 229,603	35,901 218,691	10,912
Total	1,303,327	1,254,992	48,335	1,014,918	978,137	36,781	288,409	276,855	11,554
Olympic Peninsula		and the region is the community of the second and t	Millioninino s <mark>uom</mark> illionin ysikaano valin valantus siin v	titeratiilaa miji alammajalaga myo <u>nga myonga aagaalima</u> a					
D	30,864	23,302	7,562	23,402	17,349	6,053	7,462	5,953	1,509
C	52,401	46,599	5,802	39,401	35,018	4,383	13,000	11,581	1,419
В	138,365	138,365		105,126	105,126	Mr vivo	33,239	33,239	
A	946,475	945,831	644	742,427	742,427		204,048	203,404	644
Total	1,168,105	1,154,097	14,008	910,356	899,920	10,436	257,749	254,177	3,572
Lower Columbia	909-90-9000000000000000000000000000000						**************************************	h de glacia (n. 1646). Es since en manument man es en en anno	
0	1,485	1,434	51	1,109	1,109	SW Har	376	325	51
C	56,028	56,028	plat and	43,442	42,442	No. an	12,586	12,586	
8 A	103,814 747.037	103,814	46.00	80,909	80,909	no es	22,905	22,905	***
	***************************************	747,037		577,972	577,972		169,065	169,065	
Total	908,364	908,313	51	703,432	703,432	46.76	204,932	204,881	51
Central Washington						Terricolor (1995)	The second control of		(tal nell differel et en regionalité bissessement au se
D and C ³	12,944	7,589	5,355	10,153	7,538	2,615	2,791	51	2,740
В	82,182	81,365	817	64,567	63,853	714	17,615	17,512	103
A	321,708	321,708		254,262	254,262	the say	67,446	67,446	
Total	416,834	410,662	6,172	328,982	325,653	3,329	87,852	85,009	2,843
Inland Empire							OFF PRODUCTION AND AND AND AND AND AND AND AND AND AN		***************************************
D	2,116	1,320	796	1,606	969	637	510	351	159
C B	181,111	181,111		139,515	139,515	***	41,596	41,596	* *
A	109,913 253,284	109,913 253,284	top not	84,802 197,610	84,802 197,610	the sax	25,111 55,674	25,111 55,674	
Total	546,424	545,628	796	423,533	422,896	637	122,891	122,732	159
Total, State									***************************************
D ⁴	67,636	51,538	16,098	51,407	40,369	11.038	16,229	11 160	5 050
C	367,509	361,518	5,991	282,512	277,981	4,531	10,229 84,997	11,169 83,537	5,060 1,460
8	582,865	582,048	817	448,094	447,380	714	134.771	134,668	103
A	3,325,044	3,278,588	46,456	2,599,208	2,564,308	34,900	725,836	714,280	11,556
Total	4,343,054	4,273,692	69,362	3,381,221	3,330,038	51,183	961,833	943,654	18,179

 $^{^1}$ Mill size-classes identified as follows: Class D mills = less than 40,000 board feet capacity per 8-hour shift; C = 40,000 - 79,999; B = 80,000 - 119,999; A = 120,000 +

 $^{^2\}text{Used}$ residues were not necessarily consumed in the economic area in which they were produced

 $^{^{3}}$ Combined to avoid disclosure

⁴Total for Class D includes Class C for Central Washington

Table 28 Production and disposition of wood residues by mill size-class¹ (Tons, dry weight)

		***************************************	EIGHH		All type	; c		g gygging gyggyg dawn mil aw mae'n broek mahili b			Coar	se ^{3,8}		
Economic and mill classs		Tota	Total, I used	ny grantenny majany a jako dipendenny. A polisik di distributi di distributi di distributi di distributi di di	Board		Other	Unused	i Total	Total used ²		Fuel	Other	Unused
Puget Sou D C B A	1! 6(11)	5,137 0,154 2,690 5,937	13,404 60,006 112,690 792,037	3,731 19,950 17,265 344,437	makana unakana kakana katan kata Mari dahi Mari dahi Mari dahi Mari dahi	1,965 14,595 55,306 371,994	7,708 25,461 40,119 75,606	1,733 148 34,900	35,444 69,207	8,695 35,360 69,207 446,707	3,076 19,950 17,265 296,654	925 4,351 24,150 132,747	4,694 11,059 27,792 17,306	1,229 84 22,291
Total	1,014	4,918	978,137	385,383	ngga garangan kananan kananan Kapar kanan	443,860	148,894	36,781	583,573	559,969	336,945	162,173	60,851	23,604
Olympic P D C B A	23 39 105	1a 3,402 9,401 5,126 2,427	17,349 35,018 105,126 742,427	310 4,089 20,602 601,108		7,483 29,477 41,766 111,889	9,556 1,452 42,758 29,430	6,053 4,383	14,438 23,499 63,172 422,465	10,890 20,994 63,172 422,465	310 4,089 17,362 351,898	4,498 16,905 15,810 52,122	6,082 30,000 18,445	3,548 2,505
Total	910	356	899,920	626,109	gygrangining malaring pamelahidi 1824 - Me	190,615	83,196	10,436	523,574	517,521	373,659	89,335	54,527	6,053
Lower Col O C B A	4: 4:	1,109 3,442 3,909 7,972	1,109 43,442 80,909 577,972	22,200 26,162 361,349	4,570 7,603	818 16,672 54,747 173,376	291 35,644	gar gar gar gar gar gar	771 25,711 46,788 345,341	771 25,711 46,788 345,341	17,535 22,836 256,129	611 8,176 23,952 89,212	160	
Total	703	3,432	703,432	409,711	12,173	245,613	35,935	***	418,611	418,611	296,500	121,951	160	20" 40"
Central W D and C B A	b 10	ton 0,153 1,567 1,262	7,538 63,853 254,262		12,570 26,405	260 20,558 105,949	11,102 37,243	2,615 714	5,704 35,979 138,814	5,586 35,329 138,814	5,481 19,623 83,901	105 4,728 37,897	10,978 17,016	118 650
Total	328	3,982	325,653	111,566	38,975	126,767	48,345	3,329	180,497	179,729	109,005	42,730	27,994	768
Inland Em D C B A	139 139 84	1,606 9,515 1,802 7,610	969 139,515 84,802 197,610	73,976 51,298 103,895	7,209	365 49,565 26,183 56,360	604 15,974 7,321 30,146	637	1,051 84,966 51,298 113,725	568 84,966 51,298 113,725	69,792 51,298 73,749	363 15,174 39,976	205	483
Total	423	3,533	422,896	229,169	7,209	132,473	54,045	637	251,040	250,557	194,839	55,513	205	483
Total. St D C B A	5) 282 448	1,407 2,512 3,094 9,208	40,369 277,981 447,380 2,564,308	11,319 120,215 134,950 1,495,454			18,159 42,887 101,300 208,069	4,531 714	31,888 169,620 266,444 1,489,343	26,510 167,031 265,794 1,467,052	8,867 111,366 128,384 1,062,331	6,502 44,606 68,640 351,954	11,141 11,059 68,770 52,767	5,378 2,589 650 22,291
Total	3,381	1,221	3,330,038	1,761,938	58,357	1,139,328	370,415	51,183	1,957,295	1,926,387	1,310,948	471,702	143,737	30,908

 $[\]frac{1}{1}$ Mill size-classes identified as follows: Class 0 mills = less than 40,000 board feet capacity per 8-hour shift; C = $\frac{40,000}{1}$, 999; B = $\frac{80,000}{1}$, A = $\frac{120,000}{1}$ +

 $^{^2}$ Used residues were not necessarily consumed in the economic area in which they were produced

 $^{^3\}mathrm{Slabs}$, edgings, trim and spur ends

⁴Shavings

⁵ Sawdust

⁶Combined to avoid disclosure

 $⁷_{\sf Total}$ for Class D includes Class C for Central Washington

 $⁸_{\mbox{\scriptsize The Board column in the "Coarse" section had no figures and was therefore deleted$

Table 28 (Continued) Production and disposition of wood residues by mill size-class (Tons, dry weight)

	inapassinas arabanis and a		(lor	is, ar	<u>v we</u>	ignt)	orana and divina a same	-		an and the state of the state o		
Marie Management Control		Mediu	ım ⁴					***************************************		og parameter and timeless	Fine	,5	
Total	Total used	2 _{Pul}	p Boar	d Fuel	Other	Unuse	d Total	Total used ²	Pulp	Boar	d Fuel	Other	Unused
1,233 10,315 15,814 165,713	10,285	20,956	and spin star star star star star star	500 3,142 13,810 121,576	7,143 2,004	30	3,980 14,395 27,669 192,226	14,361 27,669	100. 400 100. 100		540 7,102 17,346 117,671	7,259 10,323	504 34 9,007
193,075	189,443	20,956		139,028	29,459	3,632	238,270	228,725	27,482		142,659	58,584	9,545
2,888 6,786 16,858 146,810	1,858 5,868 16,858 146,810	117,684	unige states and states who william	312 5,142 15,079 24,081	1,546 726 1,779 5,045	1.030	9,116 25,096	4,601 8,156 25,096 173,152	3,240 131,526		2,673 7,430 10,877 35,686	726 10,979	960
173,342	171,394	117,684		44,614	9,096	1,948	213,440	211,005	134,766	ALL NA	56,666	19,573	2,435
26 7,193 14,945 91,090	26 7,193 14,945 91,090	1,555 9,405	100 100	1,068 14,945 38,438	26 35,644	200 300 500 300 500 500 500 500		312 10,538 19,176 141,541	3,110 3,326 95,815	disc sales	207 7,428 15,850 45,726	m	State And All dans All sides All that
113,254	113,254	10,960	12,173	54,451	35,670		171,567	171,567	102,251	***	69,211	105	44. 544
2,112 13,843 57,394	13,800 57,394	ng ale an mi	8,052 26,405	5,624 21,868	124 9,121	2,112 43	2,337 14,745 58,054	1,952 14,724 58,054	1,797 764		155 10,206 46,184		385 21
73,349	71,194	300 000	34,457	27,492	9,245	2,155	75,136	74,730	2,561	4,518	56,545	11,106	406
129 19,725 12,480 37,277	104 19,725 12,480 37,277	2,092 15,034	7,209	15,303 5,159	104 2,330 7,321 15,034	25	426 34,824 21,024 46,608	297 34,824 21,024 46,608	2,092 15,112	ent said ent said son son	2 19,088 21,024 16,384	13,644	129
69,611	69,586	17,126	7,209	20,462	24,789	25	102,882	102,753	17,204		56,498	29,051	129
6,388 44,019 73,940 498,284	3,221 43,071 73,897 494,682			54,617	10,199	43	13,131 68,873 107,710 611,581	107,689		4,518	3,577 41,048 75,303 261,651	4,609 21,629 21,302 70,879	2,493 994 21 9,007
622,631	614,871	166,726	53,839	286,047	108,259	7,760	801,295	788,780	284,264	4,518	381,579	118,419	12,515

Table 29 Production and disposition of bark residues by mill size-class¹ (Tons, dry weight)

				Used ²	an California de Audentifica de La serva de La California de Artes de Artes de Artes de Artes de Artes de Arte California de Artes d		2 2 4 4
Economic area and mill size- class	All bark	Total	Pulp	Board	Fuel	Other	Unused
Puget Sound							
D C	5,090 17,815	4,489 17,774	969	and and	1,352 9,683	2,168 8,091	601
В	35,901	35,901	nes est	air air	17,343	18,558	41
Ā	229,603	218,691		12,900	122,778	83,013	10,912
Total	288,409	276,855	969	12,900	151,156	111,830	11,554
Nympic Peninsula		relikterisk de sil anderdelikter mellijkting profijekting in de soaite en jelen mer b	ng, gaya gay 4.466 da lini gili da digina digina magan yang ina da washan ya nagiya iyo	garlennikas popius gasas popius, parad poiumilitiis as in compressioni	regionissis perilei (fictorida) indicatorial inside relativo condition anni lette pe	ана такуу шар атура жанар шайуш шарын ай касуы ушау, шарык аңый түшт	inami penegana penegana penegana pelanglian mpagapana (pp. p. p. p. p.
Ď	7,462	5,953	350	man wife	2,972	2,631	1,509
C	13,000	11,581	100 100	304-385	10,714	867	1,419
8 A	33,239	33,239	van oler	***	7,740	25,499	644
	204,048	203,404		40 14 	195,406	7,998	***************************************
Total	257,749	254,177	350	an an	216,832	36,995	3,572
ower Columbia							
D	376	325	eter near	100 400	268	57	51
C	12,586	12,586	3,715	disk rate	8,871	w -a	**
8 A	22,905 169,065	22,905 169,065	AND HOLE	200 AM	22,905 125,390	43,675	nai yak
Total	204,932	204,881	3,715		157,434	43,732	51
,		201,002	0,,10		10,,	10,702	
entral Washington							
D and C ³ B	2,791	51	that again	No res	51	0.710	2,740
A	17,615 67,446	17,512 67,446	new video		7,797 53,755	9,715 13,691	103
Total	87,852	85,009			61,603	23,406	2,843
nland Empire			ti del del adal de la				
D	510	351	***		314	37	159
C	41,596	41,596	***	***	26,927	14,669	-00 spe
8	25,111	25,111	main time	also said.	24,061	1,050	466 466
A	55,674	55,674		10 VE	55,674	***************************************	
Total	122,891	122,732	HER WISH	ned step	106,976	15,756	159
otal, State			interhilmen dien bereitrigt gesett in den beschen den den bejen verst geschen sowe		manuscus de la companya de la compa		
	16,229	11,169	1,319	40 40	4,957	4,893	5,060
C	84,997	83,537	3,715		56,195	23,627	1,460
8 A	134,771	134,668	All HN	12 000	79,846	54,822	103
	725,836	714,280		12,900	553,003	148,377	11,556
Total	961,833	943,654	5,034	12,900	694,001	231,719	18,179

 $^{^1\}rm Mill$ size-classes identified as follows: Class D mills = less than 40,000 board feet per 8-hour shift; C = 40,000 - 79,999; B = 80,000 - 119,999; A = 120,000 +

 $^{^{2}}$ Used residues were not necessarily consumed in the economic area in which they were produced

 $^{^{3}}$ Combined to avoid disclosure

⁴Total for Class D includes Class C for Central Washington

Table 30 Production and disposition of wood and bark residues by county (Tons, dry weight)

Economic area	A11	residues		Wo	od residues		Bar	k residues	
and county	Total	Used ¹	Unused	Total	Used ¹	Unused	Total	Used ¹	Unused
Puget Sound		and the transfer of the first and a street make the paper of the street makes and the street		**************************************	en en direction de la companyation de la companyati	en in de la companya	\$	er and a superior of the super	
Island/Kitsap/ San Juan ²									
King	247,78 218,88		170	195,25		134	52,537	52,501	31
Pierce	286.58		19	171,96		14	46,926	46,921	
Skagit	31,65		2,251	222,61		1 (2)	64,070	64,070	
Snohomish	502,27		45,812	388,30		1,671 34,900	7,354	6,774	580
Whatcom	16,03	2 15,949	83	12,48		62	113,975 3,547	103,063	10,912 21
Total	1,303,32	7 1,254,992	48,335	1,014,918	3 978,137	36,781	288,409	276,855	11,554
Olympic Peninsula	elidelitäisimpiimpiinpiinpiinpiinpiinpiinpiinpiinpi								-
Clallam	20,63	13,958	6,676	15 001	10.000	F ***			
Grays Harbor	249,335	249,294	41	15,801 193,609		5,180	4,833	3,337	1,496
Jefferson	42,777	42,777	***	33,664		31	55,726	55,716	10
Lewis	432,493	431,660	833	336,605		833	9,113	9,113	46 10
Mason	288,357		644	225,992		653	95,888 62,365	95,888 61,721	
Pacific	95,659		5,811	74,873		4,390	20,786	19,365	644
Thurston	38,850	38,847	3	29,812		2	9,038	9,037	1,421
Total	1,168,105	1,154,097	14,008	910,356	899,920	10,436	257,749	254,177	3,572
ower Columbia				**************************************					
Clark	49,419	49,419	ner 40	38,411	20 411				
Cowlitz	628,729			485,566	38,411 485,566	80 100 20 100	11,008	11,008	N+ 40
Klickitat	147,481	147,430	51	115,012	115,012	MY Sec	143,163	143,163	
Skamania/				,	*******		32,469	32,418	51
Wahklakum ²	82,735	82,735		64,443	64,443		18,292	18,292	461 464
Total	908,364	908,313	51	703,432	703,432		204,932	204,881	51
entral Washington			AND THE PERSON NAMED IN COLUMN TO TH	and the second s	and the second of the second o	***************************************			CONTRACTOR
Chelan/Okanogan ²	177,010	171,278	5,732	139,437	136,548	2 000	27 672		
Yakima	239,824	239,384	440	189,545	189,105	2,889 440	37,573 50,279	34,730 50,279	2,843
Total	416,834	410,662	6,172	328,982	325,653	3,329	87,852	85,009	2,843
nland Empire						Maid-management on the Control of th			
Asotin/Walla Walla ²	85,461	05 450							
Columbia/Ferry ²	88,779	85,460 88,762	1 7	64,946	64,945	1	20,515	20,515	** **
Pend Oreille/Spokane2	96.012	96,012	17	69,912	69,895	17	18,867	18,867	per 440.
Stevens	276,172	275,394	778	75,575 213,100	75,575 212,481	610	20,437	20,437	AN IN
Total	546,424		-		***************************************	619	63,072	62,913	159
	J7U; 46.4	545,628	796	423,533	422,896	637	122,891	122,732	159
tal, State	4,343,054	4,273,692	69,362	3,381,221	3,330,038	51,183	961,833	943,654	18,179

 $[{]m I}_{ ext{Used}}$ residues were not necessarily consumed in the area or county in which they were produced

²Combined to avoid disclosure

Table 31 Production and disposition of wood residues by county (Tons, dry weight)

		all de la company de la co	All Typ	es				[] !		Coa	rse ^{1,6}		
Economic area and county	Total	Total used ⁴	Pulp	Board	Fuel	Other	Unused	Total	Total used ⁴	Pulp	Fuel	Other	Unused
uget Sound Island/Kitsap/ San Juan ⁵ King Pierce Skagit Snohomish	195,252 171,963 222,618 24,298 388,302	195,118 171,949 222,618 22,627 353,402 12,423	94,438 95,578 3,705 184,903 6,759	core deservices and control of the c	187,964 68,356 115,028 7,786 62,535 2,191	7,154 9,155 12,012 11,136 105,964 3,473	134 14 1,671 34,900 62	107,315 95,859 130,716 14,294 228,359 7,030	107,241 95,849 130,716 13,109 206,068 6,986	94,438 95,578 3,705 136,465 6,759	103,292 345 32,546 5,192 20,754 44	3,949 1,066 2,592 4,212 48,849 183	74 10 1,185 22,291 44
Whatcom Total	12,485 1,014,918	978,137	385,383	openseden der til en	443,860	148,894	36,781	583,573	559,969	336,945	162,173	60,851	23,604
Olympic Peninsul Clallam Grays Harbor Jefferson Lewis Mason Pacific Thurston	a 15,801 193,609 33,664 336,605 225,992 74,873 29,812	10,621 193,578 33,664 335,772 225,992 70,483 29,810	2,213 155,774 17,362 233,184 197,751 19,825		6,636 30,153 12,723 60,853 22,798 50,648 6,804	1,772 7,651 3,579 41,735 5,443 10 23,006	5,180 31 833 4,390 2	9,874 113,170 18,617 193,877 127,901 41,673 18,462	6,976 113,148 18,617 193,256 127,901 39,163 18,460	2,213 92,925 17,362 122,801 127,364 10,994	3,184 15,810 1,240 40,401 537 28,163	1,579 4,413 15 30,054 6 18,460	621 2,510
Total	910,356	899,920	626,109		190,615	83,196	10,436	523,574	517,521	373,659	89,335	54,527	6,05
Lower Columbia Clark Cowlitz Klickitat	38,411 485,566 115,012	38,411 485,566 115,012	26,974 277,195 52,439	4,570	11,241 172,675 57,960	196 35,696 43	war sid. Alle side alle side	22,488 292,433 66,326	22,488 292,433 66,326	22,309 203,183 34,093	32,233	122 38	
Skamania/ Wahkiakum ⁵	64,443	64,443	53,103	7,603	3,737	40 die	AL 46	37,364	37,364	36,915	449	W da	
Total	703,432	703,432	409,711	12,173	245,613	35,935		418,611	418,611	296,500	121,951	160)
Central Washing Chelan/ Okanogan ⁵ Yakima	ton 139,437 189,545 328,982	136,548 189,105		38,975	54,447 72,320 126,767	30,469	440	76,751 103,746 180,497	76,423 103,306 179,729	61,664 47,341 109,005	2,849 39,881 42,730	11,910 16,084 27,994	4 44
Inland Empire Asotin/Walla Walla	64,946	64,945	41,897		11,033	12,015	1	41,908	41,908	41,897	4 1		All I
Columbia/	69,912	69,895	54,041		142	15,712	17	38,541	38,529	38,387	142	w =	
Ferry ⁵ Pend Oreille, Spokane ⁵ Stevens		75,575 212,481	45,697 87,534	7,209	25,513 95,785			41,750 128,841	41,750 128,370	41,513 73,042			6 4
Total	423,533	422,896	229,169	7,209	132,473	54,045	637	251,040	250,557	194,835	55,513	20	5 4
Total, State		3,330,038	1 761 039) EO 3E7	1 130 326	370 415	51.183	1,957,295	1,926,387	1,310,94	3 471,702	143,73	7 30,9

 $[\]ensuremath{^{1}\text{Coarse}}$ residue includes slabs, edgings, sawmill trim, and planer trim

^{2&}lt;sub>Medium</sub> residue is planer shavings

³Fine residue is sawdust

 $^{^4}$ Used residues were not necessarily consumed in the economic area in which they were produced

⁵Combined to avoid disclosure

 $[\]mathfrak{o}_{\mathsf{The}}$ Board column under "Coarse" has been deleted because no figures were reported

Sawmills

Table 31 (Continued) Production and disposition of wood residues by county (Tons, dry weight)

**************	-	~~~~~~~			<i>3/</i>	***********							
			Medium	?			i				Ff	ne ³	
Total	Tota Use		p Board	1 Fuel	Other	Unuse	d Tota	Total Used	4 _{Pu1}	p Boar	d Fue	1 Other	• Unused
43,942 36,817 38,353 4,269 67,101 2,593	36,817 38,353 4,269 63,499	20,956	000 data 000 data data mili 200 data (000 data (000 data (000 data (000 data (000 data (000 data (000 data (000 data (000 data)	42,33 32,59 34,26 16 28,63 1,02	8 4,219 4 4,089 9 4,100 2 13,911	3,602	43,999 39,287 53,549 5,738 92,842 2,862	39,28 53,54 5,24 83,83	3 9 9 5 27,48:	our tak our tak usb our air air air air	42,33 35,41 48,21 2,42 13,14 1,11	3 3,870 8 5,331 5 2,824 9 43,204	486 9,007
193,075	189,443	20,956)	139,028	3 29,459	3,632	238,270	228,72	5 27,48	2 ***	142,659		
1,882 34,168 7,116 64,460 45,678 16,254 3,784	34,168 7,116 64,460 45,678 15,336	27,914 51,154 34,291	our sta-	852 4,713 5,337 11,573 11,128 11,011	1,541 1,779 1,733 1,733	918	4,045 46,271 7,931 78,268 52,413 16,946 7,566	46,262 7,931 78,056 52,413 15,984	34,935 59,229 36,096 4,506		2,600 9,630 6,146 8,879 11,133 11,474 6,804	1,697 1,785 9,948 5,184	1,252 9 212 962
173,342	171,394	117,684		44,614	9,096	1,948	213,440	211,005	134,766	27 18	56,666		2,435
6,709 73,277 21,502 11,766	6,709 73,277 21,502 11,766	1,555 7,115 2,290	4,570	5,128 37,633 9,817 1,873	35,644	SSA ASIA	27,184 15,313	9,214 119,856 27,184 15,313	74,012 11,231	to op op on the state of the st	6,056 45,830 15,910 1,415	14 43	SS- ob-
	210 j E 3 4	10 § 300	** * * * * * * * * * * * * * * * * * *	37,731	00,070		1/1,50/	1/1,30/	102,231	Add has	69,211	105	
31,231 42,118	29,076 42,118	40 00 Ver 100	34,457	25,976 1,516	3,100 6,145	2,155	31,455 43,681	31,049 43,681	2,561	4,518	25,622 30,923	2,866 8,240	406
73,349	71,194	10-14	34,457	27,492	9,245	2,155	75,136	74,730	2,561	4,518	56,545	11,106	406
5,863 15,576	5,863 15,576	7,788	70 de PP 00	5,159	704 7,788	56 vid Mer van	17,175 15,795	17,174 15,790	7,866	ddir mir War ing	5,863	11,311	1
16,715 31,457	16,715 31,432	2,092 7,246	7,209	12,525	2,098 14,199	25	17,110 52,802	17,110 52,679	2,092	W 12	12,830 37,805	2,188 7,628	123
69,611	69,586	17,126	7,209	20,462	24,789	25	102,882		17,204		56,498	29,051	129
22,631	614,871	166,726	53,839	286,047	108,259	7,760	801,295	788,780	284,264	4,518	381,579	118,419	12,515

Table 32 Production and disposition of bark residues by county (Tons, dry weight)

			U	sed ^l			i -	
Economic area and county	All bark	Total	Pulp	Board	Fuel	Other	Unused	
Puget Sound	and the second s					gas a gas agus chea cus con	august regardes de l'agrecation de moderne de mandre de l'agrecation de l'agrecation de l'agrecation de l'agrec	
İsland/Kitşap					ro c31	1 000	36	
San Juan ²	52,537	52,501	No. 164	10 000	50,671 26,742	1,830 7,279	3E	
King	46,926	46,921	1907 AUG	12,900	57,900	6,170		
Pierce	64,070	64,070 6,774	w as	-00 AM	1.352	5,422	580	
Skagit	7,354 113,975	103,063	969		12,395	89,699	10,912	
Snohomish Whatcom	3,547	3,526	303	per 100	2.096	1,430	21	
		and the second second	969	12,900	151,156	111,830	11,554	
Total	288,409	276,855	303	12,500	101,100	111,000	11,500-	
Nympic Peninsula								
Clallam	4,833	3,337	40.40	ally was	3,106	231	1,496	
Grays Harbor	55,726	55,716	***		53,335	2,381	10	
Jefferson	9,113	9,113		49 100	607	8,506	400 100	
Lewis	95,888	95,888	350		77,671	17,867		
Mason	62,365	61,721	ner me		55,529	6,192	644	
Pacific	20,786	19,365	40.46	Nor 104	19,360	5	1,421	
Thurston	9,038	9,037			7,224	1,813	1	
Total	257,749	254,177	350	NOV 449-	216,832	36,995	3,572	
ower Columbia	Watermak Intel Schmidterführtesschenderteiter		•					
.ower Columbia Clark	11,008	11,008	3,715	ale sea	7,249	44	765 M	
Cowlitz	143,163	143,163	39/13	100 000	99,475	43,688	ant. 100	
Klickitat .	32,469	32,418			32,418	70,000	51	
Skamania/Wahkiakum ²	18,292	18,292	AR 100		18,292	No. 46		
Total	204,932	204,881	3,715	100.00	157,434	43,732	51	
Central Washington	cardenesses associated association and the second				rigin on de grande primi passe ingresse par en my insumer medit de berende			
Chelan/Okanogan ²	37,573	34,730	an m	Mile Mile	30,394	4,336	2,843	
Yakima	50,279	50,279		40 VIII	31,209	19,070	** **	
Tota1	87,852	85,009	MAX 4444	sizes And-	61,603	23,406	2,843	
Inland Empire	Anguntumanyu dilendiki midikinin midililedililedi.							
Asotin/Walla Walla ²	20,515	20,515		***	5,954	14,561	-	
Columbia/Ferry ²	18.867	18,867	387 494		18,867		w =	
Pend Oreille/Spokane ²	20,437	20,437	may make	allo and	20,436	1		
Stevens	63,072	62,913			61,719	1,194	159	
Total	122,891	122,732	***	View Self-	106,976	15,756	159	
otal State	961,833	943,654	5,034	12,900	694,001	231,719	18,179	

 $¹_{\mbox{Used}}$ residues were not necessarily consumed in the economic area in which they were produced

 $^{^{2}\}mathrm{Combined}$ to avoid disclosure

Sawmills

Table 33 Degree of lumber manufacture (Thousand board feet, lumber tally)

Economic area and mil] size- class	Green	Kiln-dried	Air-dried	Total	Rough	Surfaced
Puget Sound		iniminate and an enterconnection of the literature and consistency of the literature and consistency and consi				
Ď	15,429	2,560	150	18,139	12,456	5,683
C	46,357	19,655	say say	66,012	18,425	47,587
8	71,968	53,312	340 see	125,280	52,555	72,725
A	487,373	402,578		889,951	122,729	767,222
Total	621,127	478,105	150	1,099,382	206,165	893,217
Olympic Peninsula	OPEN CONTROL OF THE C	indelit til til til det mind til til med til som påde sakat som fråm av som også syndamen.	OFFICE AND	ika iki digambah menerakan dina sebagai dan dina sebagai dan dina sebagai dan dina sebagai dan dina sebagai da	aktoria mentaan salah dipenantikan semenya kerengan pertamban semengan kerengan pertamban semengan pertamban s	
D	11,555	8,617	7,440	27,612	14,375	13,237
C	11,050	29,064	100 00k	40,114	9,200	30,914
8 A	68,445 419,248	44,500	0.3	112,945	35,500	77,445
n.	413,540	382,309	93	801,650	121,939	679,711
Total	510,298	464,490	7,533	982,321	181,014	801,307
Lower Columbia	Valende and distributed in marille Copy on a grown proper and copy of a gro					
D	1,360	55	55	1,470	1,345	125
C B	29,044	19,747	Side value	48,791	15,488	33,303
A A	43,334	45,451	10.040	88,785	19,590	69,195
^	529,538	115,516	10,248	655,302	233,582	421,720
Total	603,276	180,769	10,303	794,348	270,005	524,343
Central Washington	**************************************	familiadrija vajako kimi ir mustadi visilika tardi visilika tardi visilika tardi sa ka da da sa sa ka da sa ka	o Control and the Control of the Co		BOOMOONINGCOD VIIII III SAAAAAAAAAAAAAAAAAAAAAAAAAAAA	
D and C ²	8,546	stile non	2,280	10,826	1,048	9,778
8	11,304	56,915	60	68,279	4,183	64,096
A	28,412	236,829	3,538	268,779	3,052	265,727
Total	48,262	293,744	5,878	347,884	8,283	339,601
nland Empire	etin viitti etitää keitää kirin kunjun jun yläja ja on on on muutuu kun		t teritori in tille et till til et missi til vett tre kommunisk tristler frysser en såretjeren er oppgyr gryn e		ikkennek-essentalaisisteksisteksisteksisteksisteksisteksisteksisteksisteksisteksisteksisteksisteksisteksisteks	
D	1,822	W/ who	184	2,006	1,393	613
C	46,321	104,101	10,810	161,232	69,897	91,335
В	44,171	39,600	13,572	97,343	39,555	57,788
A	75,857	139,942		215,799	43,207	172,592
Total	168,171	283,643	24,566	476,380	154,052	322,328
otal, State		APPALLIS SCOOKING REPORT SERVICE PROPERTY OF THE PROPERTY OF T				
D^3	38,936	11,232	10,309	60,477	31,041	29,436
C	132,548	172,567	10,610	315,725	112,586	203,139
8	239,222	239,778	13,632	492,632	151,383	341,249
A	1,540,428	1,277,174	13,879	2,831,481	524,509	2,306,972
Total	1,951,134	1,700,751	48,430	3,700,315	819,519	2,880,796

 $^{^1}$ Mill size-classes identified as follows: Class D mills = less than 40,000 board feet per 8-hour shift; C= 40,000 - 79,999; B = 80,000 - 119,999; A = 120,000 +

²Combined to avoid disclosure

 $^{^3\}mathrm{Size}\text{-class}$ D includes size-class C for Central Washington

Table 34 Lumber production by headrig type, by mill size-class¹ (Thousand board feet, lumber tally)

Economic area and mill size- class	All types	Circular saw	Band saw	Gang saw	Chipping saw	Scragg double cut saw
Puget Sound		gadinnigaatakkastanoon saltanoo kassassa ee				
Ď	18,139	15,864	2,275	** **	See who	date state
C	66,012	were seen	64,212	in on	1,800	90° 40°
В	125,280	37,196	59,745	w	21,700	6,639
A	889,951	der den	692,949	ngin ngin	47,652	149,350
Total	1,099,382	53,060	819,181	idagagagagagagagagagagagagagagagagagagag	71,152	155,989
)lympic Peninsula	palakanan 1700 (kananan Aren 1888-1800 (Aren 1888-1800)	autoriana anterioria de la composito de la comp	geen opgever gegen gegen om geen om gelang van diel militaan opgeverkiel omde versplack het de versche		na kanangan ngan ngan salima ini masaka na sain lisia na ambaila	
D	27,612	17,653	7,742	gain again	are are	2,217
Č	40,114	8,352	31,762	m+ m+	Mr ser	£ \$ £ £ ?
В	112,945	3,000	92,445		17,500	ian ten
A	801,650	69,540	467,075	49,605	156,366	59,064
Total	982,321	98,545	599,024	49,605	173,866	61,281
_ower Columbia	адамузана организмического положения под восторина по			aniplima padrim na sasan masa ndishiri medi		em en
D	1,470	1,470	· 44	and and	del est	904 str
C	48,791	server.	48,791	May 1894	were space	diel onle
8	88,785	agin gan	79,695	9,090	der ege	Ar 40
A	655,302	ugh side	566,401	32,912	40,251	15,738
Total	794,348	1,470	694,887	42,002	40,251	15,738
Central Washington	given elektrologica del anticom clandica anticom applicata relacion	ander genagspringsprogen av enne genitente en en inne folk de kinkigen verbendellich d	alaran di perdamban di mahali di Organi dadah dah dah dan merlam seri Delimbina da Dipeli da D			
D and C ²	10,826	424	9,362	ger une	1,040	W ² Aut
8	68,279	300	67,979		44.44	Size dan
Ā	268,779	APP NEF	199,468	air air	69,311	ngin au-
Total	347,884	724	276,809	annong dismanasan pononsand distribution dis	70,351	
Inland Empire						
D	2,006	1,706	300	an ga	ser seri	pin apri
Č	161,232	23,860	131,132	a- a-	No. No.	6,240
8	97,343	20,000	97,343	ar se	An- 40*	
Ā	215,799	16× 16×	215,799	50° 40°	Acc des	ger ser
Total	476,380	25,566	444,574			6,240
Intal State						
fotal, State	60,053	37,117	19,679	pr 40*	1,040	2,217
C	316,149	32,212	275,897	N 4"	1,800	6,240
В	492,632	32,212 40,496	397,207	9,090	39,200	6,639
A	2,831,481	69,540	2,141,692	82,517	313,580	224,152
Totai	3,700,315	179,365	2,834,475	91,607	355,620	239,248

 $^{^1}$ Mill size-class identified as follows: Class D mills = less than 40,000 board feet per 8-hour shift; C = 40,000 - 79,999; B = 80,000 - 119,999; A = 120,000 +

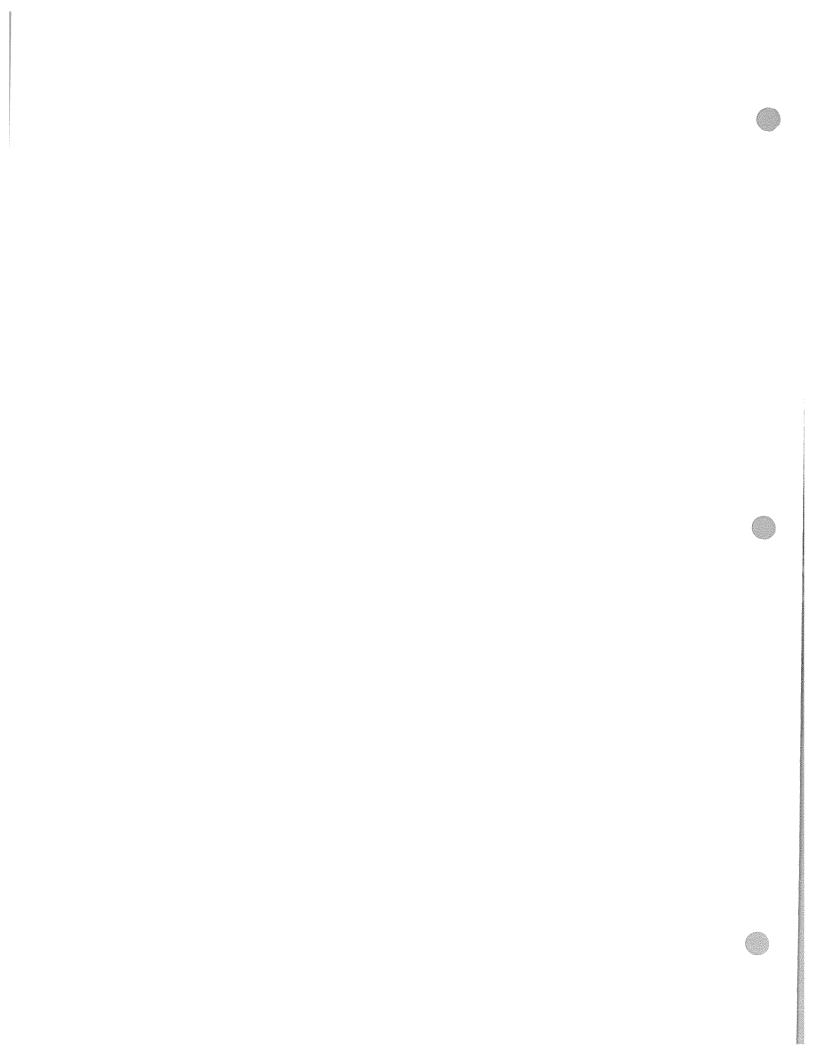
 $^{^{2}}$ Combined to avoid disclosure

 $^{^3}$ Total for Class D includes Class C for Central Washington

Table 35 Lumber production by headrig type, by county (Thousand board feet, lumber tally)

Economic area						Scragg
and mill size-	A11	Circular	Band	Gang	Chipping	double cut
class ¹	types	saw	saw	saw	saw	saw
**************************************				and the second of the second o		
uget Sound						
Island/Kitsap/San	500 501	401	201 400	w4 ee-	1.800	900 April
Juan ¹	203,691	491 699	201,400 181,200	***	1,000	
King	181,899	16,356	132,119		48,300	51,039
Pierce	247,814 26,062	2,460	17,250	30 M	6,352	
Skagit Snohomish	426,804	32,534	274,620	two size	14,700	104,950
Whatcom	13,112	520	12,592		30 AR	Gast dear
Wild CCOM	10,111	J L V				
Total	1,099,382	53,060	819,181	link opi.	71,152	155,989
			nga penggapang ngahangan makan dahilak			
)lympic Peninsula	10 744	11 600	4,939	ion was		2,217
Clallam	18,744 213,778	11,588 3,448	108,825	49,605	51,900	£ g £ £ 1
Grays Harbor	213,778 36,721	3,448	32,945	43,000	51,900	95 No.
Jefferson	36,721 357,492	1,261	279,667		17,500	59,064
Lewis Mason	242,628	517	172,645	407.44	69,466	33,004
Pacific	77,924	77,924	172,043		00,4100	***
Thurston	35,034	31	3	we me	35,000	and ladge
Total	982,321	98,545	599,024	49,605	173,866	61,281
(Oca)	70£ § 5 £. 1			13 \$ 0 0 0	2.04000	
ower Columbia						
Clark	42,678	344	42,334	the ext		nek sam
Cowlitz	554,907	73	514,583		40,251	
Klickitat ,	125,861	200	100,833	9,090	** ***	15,738
Skamania/Wahkiakum ¹	70,902	853	37,137	32,912	uar ua.	400, 500
Total	794,348	1,470	694,887	42,002	40,251	15,738
'antus' Wachinatan						
Central Washington Chelan/Okanogan ^l	145,646	724	126,190	an an	18,732	
Yakima	202,238	W- NO	150,619	247 048	51,619	Marin Marin
2 miles 2 73750	~ \$ ~ ~ ~					
Total	347,884	724	276,809		70,351	Albo saled
nland Empire .						Announce and Announce and and it is in a facilities and an APA APA of all APA APA PARTICULAR STATES OF APA APA
Asotin/Walla Walla ¹	79,522	20	79,502	nay san	-04 Apr	566 566
Columbia/Ferry	73,135	294	72,841		-to two	and hear
Pend Oreille/Spokane ¹	79,225	150	79,075	No. 166	an ap	who was
Stevens	244,498	25,102	213,156	object widely.		6,240
Total	476,380	25,566	444,574	30 NF	Re day	6,240
				·		239,248

 $^{^{\}mathrm{I}}$ Combined to avoid disclosure



Veneer and Plywood Mills

Table 36 Number of veneer and plywood mills

Economic area and county	All types	Veneer only	Layup only	Veneer and layup
Puget Sound				
King	2			
Pierce	2	***	2	2
Skagit	1	***	1	nik ng.
Snohomish	1	700. 440	1	*
Whatcom	1	Mar and		1
Total	7	385 - 160	3	4
Olympic Peninsula		elikakan kerantulah dia melalaman periodok sebahasan ilangkan periodok di kecama planggan dan periodok di kecam Sebahasan kerantulah di kemangkan periodok sebahasan ilangkan periodok di kecama pelanggan pelanggan berantul		
Clallam	2			
Grays Harbor	4	1	MR MG-	1
Lewis	2	1	2	1
Mason	1	2	and two	tile sep.
Thurston	3	ane une	100 mag	1
		1	2	
Total	12	5	. 4	3
ower Columbia		menyan ranga da C.B. Mala da kana kana Mahada C. Ang di apaman da hada da kana da da kana persaman kang		Millioninina on a september of the septe
Clark	1	est via		
Cowlitz	î	1	*** ***	9
Klickitat	î	1	No way	760- ton
Skamania	i	No. 40	No ide	1
Total		1		3
entral Washington	-49700000 minimized Learning and the highest contravers to be the second			
Kittitas	•			
Okanogan	1 2	1	on me	20 AL
Yakima	1	1	make app	1
-	-			1
Total	4	2	Het sees	2
land Empire	MH-MILLIAN TERROR ATTENDED FROM A CONTINUE OF CONTINUE			
Stevens	1			
	£	east Apac	900-das	1
Total	antitula halippy program open diproci cital circle and in a mem megatita specimina personal anticita and a second and cital and a second and cital and a second and cital and ci	et allaniaminen austre europianet konstanta kanada kunan kanada kunan kunan kanada kanada kanada kanada kanada Angu-angu		1
	ANNUMBER STREET OF THE STREET			*
tal, State	28	8	7	13

Veneer and Plywood Mills

Table 37 Installed eight-hour single-shift capacity (Thousand square feet, 3/8-inch basis)

		Type of or	eration	
Economic area	Veneer	Layup	Veneer a	nd layup
and county	only	only	Veneer	Layu
Puget Sound				240
King	and read	***	350	340
Pierce		296	AME OWN	ec. 20
Skagit		350	100 de	20
Snohomish	NAV SMY	ndo will	70	30
Whatcom	MS: 166-	<u></u>	180	140
Total	company to construct and the second s	646	600	510
Olympic Peninsula	Commission and on the principle of the commission of the commissio			
Clallam	105	220 - 400	190	180
Grays Harbor	80	470	60	150
Lewis	180	MK 400	en we	
Mason		m -=-	290	45
Thurston	60	690	MAY YORK	MP MA
Total	425	1,160	540	375
Lower Columbia	system de commence construir de la companya de la c	a a de la casa de esperante e que monte de enquiente de la casa de		
Clark	wie wir	***	225	200
Cowlitz	144	00 MP		wa
Klickitat		60.344	250	100
Skamania	Max Ref-	right swill	120	130
Total	144	and and placed and a state of places are are included in the state of	595	430
a				
Central Washington	200	qui de	SMS HARP	~ ~
Kittitas	100	der de	250	100
Okanogan Yakima	100	265, 2267	240	175
Total	300	ustro-conscripting and in the first construction and the design of the construction of	490	275
To be and from days	Administration of the Control of the		Star-Convincence which are produced and dispress of the relationship and distributed as a definition of the design and the star of the sta	
Inland Empire	ann KAN	00 to	256	160
Stevens	ann neg			
Total	venenske fan de fan	and a programme of the character of the section of the character of the ch	256	160
Total, State	869	1,806	2,481	1,750

Table 38 Number of mills by lathe log diameter limit

			Lath	e log diam	eter limit			MINIMPORTATION CONTRACTOR
Economic area	Layup only	20-29	30-39	40-49	50-59	60-69	70-79	80+
Puget Sound	3	inite das	nove the letter and a second and	2	i de de		1	1
Olympic Peninsula	4		2	1	Ĭ	1	1	2
Lower Columbia	100 day	eller state.	No so	1	die ma	eri siir	94 gap	3
Central Washington	100 July	1	teer side	2	1	***	10A 456.	
Inland Empire	wake state	1	one ass	-06° mis	** **	996 esta	opin star	NE 64
Total, State	erica estronomente milioriza e conserva estre estre en e T	2	2	6	2		2	6

Table 39 Number of mills by minimum core size produced

8 1 6		Diameter of cores (inches)						No lathe		
Economic area	3	4	5	6	7	8	9	10	11+	or core
Puget Sound	en- en-	M so	en uk	**************************************	Ser No.		The sage	***************************************	3	3
Olympic Peninsula	400 400	500 Mar	heed	wee 100	Noon' page	3	401 406	2	2	4
Lower Columbia	mer ska	75% NAS.	nd0 406	1	~~~	Wer year	was agin	3	200-404	ANT STILL
Central Washington	00 OM	***	ete 100	1	1	1	WA 106	1	-00° 500-	40 90
inland Empire	Alph Mar	HE WAS		No. 160	main topic	Provid		36 dec	and opposite the same of the s	dest spay.
Total, State	alle seis	ally into	***************************************	2	***************************************	5	Principal description of the second s	7	5	7

Table 40 Number of mills having selected equipment

Economic area and county	4-foot lathe	8-foot lathe	Slicer	Veneer chipper	Core chipper	Cold press	Hot press	Burner
Puget Sound				againg <u>an Calabatan Bertamental an Alberta an A</u>				
King	nor view	2	1	2	2	not not	2	
Pierce	age land	w #*		NO. 404	46 MF	1	2	20 W
		es en	20.00		nui ide	Dec 400	1	
Skagit		in oil	104 166	1	1	1	** **	
Snohomish	1			-	-	***	eer 100	
Whatcom	1	1	esser dant	20 20				
Total	2	3	1	3	3	2	5	
ol	Negograph and his body desired and the desired on the second seco							
Olympic Peninsula		2	504 MM	2	2	** **	1	100 100
Clallam	1			3	i	100 - 100 i	3	404 500
Grays Harbor	georgi g	2	ac es			00 m		40, 100
Lewis	2	and made		2	2			
Mason	100 min	1	and their	1	1	the date	1	new ands
Thurston	1	***	ON 100	laur-son-	w ##	win wat	1	494 946
Total	5	a yanumusta sistesta da da siste sa	agga mta mojomosson obiekiministi kindisti kindisti kindisti kindisti kindisti kindisti kindisti kindisti kind Siko mitr	8	6		6	
Lower Columbia Clark Cowlitz Klickitat		1 1	Agencine (a a de acuta de destructivo con contrata de acuta de acu		1 on oil		1 400 ANA 100 - 400	100 See
Skamania	1	1		1	enije salar		1	1
Total	2	4	are too	3	1		2	2
Central Washington	-9							
Kittitas		1		1	900 VIII	ses one	***	46.10
Okanogan	2	î	400 MP	2	1	an an	1	No. 440
Yakima	1	1	100 46	1	1	nih ete	1	46. 100)
Total	3	3	angus salah di dan kangungan permananan di mendalah di dan kangungan di mendalah di dan kangungan di mendalah Jangan salah	4	2		2	generale accessible all mobiles and delicities of the delicities o
Inland Empire Stevens	gali, algorização de este apresente, tem elemento de e		water water general and and all all all all all all all all all al			yaqqaa qaa qaabada Aaddada ee dhahaa a	1	
Total	ająmumyndastatas riteriariosis ostationininis 000-000	1	att 449			ann an Aire an	1	mic 80h
Total, State	12	16		19	13	2	16	2

Table 41 Number of mills by tenure of present ownership

Economic area and site occupancy	1	Tenure	of preser	nt mill own	ership (yea	ırs)
(years)	All mills	0-2	3-5	6-10	11-20	21+
Puget Sound 21+	7	1	Menudakkapatapatapatapatapatapatapatapatapata			6
Total	**************************************	1		eli lidenta applicate anticomente di la come di manuschi appendi delle subst	and the	6
Olympic Peninsula 11-20 21+	2	dada dalam dalam da da mangalam da da mangalam da mangalam da mangalam da mangalam da mangalam da mangalam da da da mangalam br>da da mangalam	The same of the sa		2 2	6
Total	12	international and an experience of the second		1	4	6
Lower Columbia 21+	4	intermental interpretation and the supplementation and		alaka ilikus kalenda k Maran da kalenda kalend	MATTER STATE OF THE STATE OF TH	4
Total	antimientilitäytään elää tiivistä tiivisia kannya ynyysen opuntaisettivaiset. A	ini na	-marine time Website College Selection (see an agree an agree an agree and agree)	60 - W	international and interpretation (see the second section (see the second section)).	4
Central Washington 6-10 11-20 21+	1 2 1	water mar water mar sider mar sider mar	makana di salah dalah da		in and the second secon	History and the state of the st
Total	4		Partin (Minister) (Albert Andrews) (Albe	2	1	1
nland Empire 11-20	1	Addition of Committee and American person propagation and account of the Committee and American		na-mayannikan kawan sinin king king king king king king king	1	
Total	allein vanna deel soone ee gevin deel kaar valla ka deel kala kirk kirk kirk kirk kirk kirk kirk kir	en die	NO SIX	Meta-Maria de Santa d	1	in me
otal, State 6-10 11-20 21+	1 5 22			The state of the s	4 2	17
Total	28	1	1	3	6	17

Table 42 Average number of operating days

Economic area	Veneer only	Layup only	Veneer and layup
Puget Sound	dere dan de	218	230
Olympic Peninsula	175	283	209
Lower Columbia	235		245
Central Washingtion	50		266
Inland Empire	ab Mi		324
Statewide Average	151	255	241

Table 43 Log inventory changes, log consumption and apparent log receipts (Thousand board feet, Scribner log rule)

<u>Salan najde allinopida pratigorio e republica de republica para que a que a que a como en como en como en como</u>		Log inventory		num	
Economic area	January 1, 1984	December 31, 1984	Net change	1984 log consumption	Apparent 1984 log receipts
Puget Sound	16,449	12,100	- 4,349	54,649	50,300
Olympic Peninsula	15,030	16,639	+ 1,609	74,528	76,137
Lower Columbia	30,587	21,912	- 8,675	115,173	106,498
Central Washington/ Inland Empire ¹	35,613	34,093	- 1,520	147,692	146,172
Total, State	97,679	84,744	-12,935	392,042	379,107

 $^{^{1}\}mathrm{Combined}$ to avoid disclosure

Table 44 Production and disposition of wood residues (Tons, dry weight)

				Used		
Economic area	Total	Total Used ¹	Pulp and board	Fuel	Other	Unused
Puget Sound Coarse ² & medium ³ Fine ⁴	129,887 8,680	128,737 8,680	63,725	58,592 8,636	6,420 44	1,150
Total	138,567	137,417	63,725	67,228	6,464	1,150
Nympic Peninsula Coarse ² & medium ³ Fine ⁴	173,277 10,973	173,277 10,973	107,701	50,643 10,583	14,933 390	at talah minin interiori dalah dalah mengalunyak mengalunyak mengalunyak mengalunyak mengalunyak mengalunyak m Mengalunyak mengalunyak mengalunyak mengalunyak mengalunyak mengalunyak mengalunyak mengalunyak mengalunyak me
Total	184,250	184,250	107,701	61,226	15,323	en se
ower Columbia Coarse ² & medium ³ Fine ⁴	113,061 3,105	113,061 3,105	82,484	4,633 1,158	25,944 1,947	
Total	116,166	116,166	82,484	5,791	27,891	Made state
entral Washington/ Inland Empire ⁵ Coarse ² & medium ³ Fine ⁴	214,259 9,388	214,164 9,388	146,634	54,538 9,388	12,992	95
Total	223,647	223,552	146,634	63,926	12,992	95
tal, State Coarse ² & medium ³ Fine ⁴	630,484 32,146	629,239 32,146	400,544	168,406 29,765	60,289 2,381	1,245
Total	662,630	661,385	400,544	198,171	62,670	1,245

 $I_{\mbox{\sc Used}}$ residues were not necessarily consumed in the area in which they were produced

 $^{^{2}\}mathrm{Coarse}$ residue includes log trim, cores, veneer clippings, roundup and spur trim

 $^{^{3}\}mathrm{Medium}$ residue includes reject veneer and panel trim

 $^{^4\}mathrm{Fine}$ residue includes sawdust and sander dust

 $^{^{5}\}mbox{Combined to avoid disclosure}$

Table 45 Veneer and plywood production (Thousand square feet, 3/8-inch basis)

Economic area and county	Veneer	Plywood
Puget Sound King/Pierce/Skagit Snohomish/Whatcom ²	17,905	394,612
Olympic Peninsula Clallam/Grays Harbor/ Lewis/Mason/ Thurston ²	182,487	498,847
Lower Columbia Clark/Cowlitz/Klickitat/ Skamania ²	125,909	241,520
Central Washington/ Inland Empire ² Okanogan/Yakima/Kittitas ²	8,487	426,748
Total, State	334,788	1,561,727

 $^{{\}bf I}_{\mbox{Includes}}$ hardwood and softwood faced plywood

 $^{^{2}}$ Combined to avoid disclosure

Table 46 Number of pulp mills¹

			Type of	pulp mill	
Economic area and county	All mills	Sulfite	Sulfate	Groundwood	Semichemical
Puget Sound					amba wanaan too aa ta'ayaa ah a
Pierce	2	disciple	1	1	note design
Snohomish	1		1	20. ip	
Whatcom	2	1	***	54. SS	1
Total	5		2		1
Olympic Peninsula	-tokentinet til behalt til jalle og generalen en e	meningkuntak singada lan kanalan kanalan singa ngimengapapa sambanas kanas singa sambanas singa sambanas singa			
Clallam	2	1	** ***	1	die van
Grays Harbor	2	2	100 cm	***	No. No.
Jefferson	1	***	1	Mr. Ips.	MA TOO
Total	5	The second secon	energi br>E		Oracido de Astillación inicialista de acusa Debridos expressos pelos especies que presenta como con esta en co en el especie
Lower Columbia	and childhir is a local microin on cost of the second account and cost of the second account a		Magaz di Amerika di Bandania di Sangania peninsa peninsa peninsa di Amerika di Sangan di Sangan di Sangan di S	nick Enimery, symfaminink an air sin Australia (spieler) on en en de enter en de tratain antalia (salaba). Decimen	
Clark	2 5	1	1	V00 elec	day and
Cowlitz	5	100 100	2	1	2
Total	and the state of t	El-deritektionic seemintelijken leine començation statut derbenan angles _{comp} g g g	3		2.
inland Empire	double that the propriation and propries and				
Spokane	1				
Walla Walla	ž		1	t oog	AN 160
	Exc.		1	des es-	1
Total	3	APP - VIII'	1		1
otal, State	20	5	7	4.	4

 $^{^{1}\}mathrm{No}$ board mills have operated in Washington State since 1982

Table 47 Installed capacity by type of mill

			Type of p	oulp mill	
Economic area and county	All mills	Sulfite	Sulfate	Groundwood	Semichemical
	egent de proposition de la company de la com	and the state of t	Bone dry tor	the second secon	enganisassan ministratur separa pengangan penganan penderbendiri diberbendiri diber
Puget Sound			1,000	415	we we
Pierce	1,415		424	413	
Snohomish	424	*00		ton the	54
Whatcom	540	486	No 200	liain side	54
Total	2,379	486	1,424	415	54
Olympic Peninsula	Sold and confidence in the confidence and confidenc	and and construction and the construction of t		aan magaan da ah	
Clallam	1,000	500	WAY YAR	500	ei ec
Grays Harbor	767	767	**	₩ ₩	
Jefferson	430	Main wish	430	adri man	400 400
Total	2,197	1,267	430	500	annes a chaire agus an cuir ann an chaire an chair Aire naibh
Lower Columbia		nder gegen gegen er gegen gegen gegen men en yn yndel de der lleidau ac de			
Clark	1,202	410	792	-0x 0x	360° 1006
Cowlitz	5,009	10 to	3,285	1,244	480
Total	6,211	410	4,077	1,244	480
Inland Empire	uniquiam de les construer a comité de la comité destination de la comité de la comité de la comité de la comité destination de la comité destination des la comité destination destination de la comité destination de la comité d			radicipality entroping in progress of property and in the desired deletions and demonstrate that social	
Inland Empire Spokane	212		000 Dec	212	main mag
Spokane Walla Walla	1,020		752	£. J. €.	268
waila waila	1,020	and and	752		200
Total	1,232	konsuntati kurunging pagunangan nagkan natari kuran salit kinika untuk kalenda da katari natari kalenda da kat Ingay saba	752	212	268
Total, State	12,019	2,163	6,683	2,371	802

^{1&}lt;sub>24</sub> hour capacity

Table 48 Number of mills by tenure of present ownership

Mills type and		Tenure of			
site occupancy (years)	0-2	3-5	6-10	11-20	21+
Sulfite 21+		And the state of t	tes en meteor prominina de de la mana haran manamana manamana antina manamana antina manamana antina manamana a Talah - casar	2	3
Sulfate 21+	1	***	No. 400-	de su	6
Groundwood 3-5 21+	an an	sen dan sen sen	1		2
Semichemical 11-20 21+	der der der der	later solv Vet solo	No. del Wil De	1	3
Total	1	alikum peldapunyah lampunda sederapunan sederak disebuah seda seda jama sedelah seda seda seda seda seda seda s Marji Marji		4	14

Table 49 Average number of operating days

Economic area	Pulp
Puget Sound	344
Olympic Peninsula	340
Lower Columbia	352
Inland Empire	349
Total, State	347

Table 50 Mill production by product and operation (bone dry tons)

		den sile til till til kommin må lyllist som en kommo da kå egyal mån som som		Type of product		
Economic area	All products	Newsprint	Bleached paper	Unbleached paper	Other paper	Market pulp
Puget Sound	829,598	170,168	22,029	225,297	91,444	320,660
Olympic Peninsula	605,969	9,512	101,799		302,946	191,712
Lower Columbia and Inland Empire ¹	2,286,417	496,823	804,468	985,059	67	little dell'
Total, State	3,721,984	676,503	928,296	1,210,356	394,457	512,372
Type of Operation, State	ewide	open garinen in remaining mengember gang pengelahan gang pengenapan dari bisar	a gazaran kapirangga mapa paga ang maganag manan aya maka maka nya maganagan aya maganag maganag mana			
Sulfite	664,040	dat vide	111,159	723	275,977	276,181
Sulfate	2,033,981	an se	715,338	982,266	100,186	236,191
Groundwood	778,302	676,503	,101,799	AAF XID	466 - 1964	w ===
Semfchemical	245,661	die wis	Alle will	227,367	18,294	soli ober
Total, State	3,721,984	676,503	928,296	1,210,356	394,457	512,372

 $^{^{1}\}mathrm{Combined}$ to avoid disclosure

Table 51 Type of wood consumed

42M Scilit St. and mark in his case of his Birtham as a set fund purposes and phase purpose promise propagati	\$ { !	Roundwoo	d			Ot	her	The defeater and the second	on A Company of the C
	j vitendraditiskemskementinen. I d			;		Chips	† † †		
Economic area	Total	Sound logs	Utility logs	Total	From mill residue	From roundwood chipping mill	Sawdust	Shavings	Waste paper
		sand board ibner log		The state of the s	the belt NE ED ED THE L	- Bone dry tons -	* * * * * * *	MAX NO NO NO NO NO NO	
Puget Sound	65,611	57,713	7,898	1,536,561	734,612	801,949	the sale	ma my	not on-
Olympic Peninsula	237,375	206,874	30,501	1,225,307	468,660	714,999	35,669	≪ to	930
Lower Columbia and Inland Empire	89,956	25,656	64,300	4,038,164	2,445,067	1,318,699	249,336	yên din	25,062
Total, State	392,942	290,243	102,699	6,800,032	3,648,339	2,835,647	285,005		25,992

 $^{^{1}\}mathrm{Combined}$ to avoid disclosure

Pulp and Board Mills

Table 52 Roundwood and chip consumption (log consumption: Thousand board feet, Scribner log rule) (chip consumption: bone dry tons)

				Olden and a second	- P	00110 0	y (0110)	
Economic area	All species	Douglas fir	Hemlock	True firs	Spruce	Lodgepole pine	Other softwoods	Hardwoods
Puget Sound Total logs	65,611	577	28,816	28,240	ACOMITATION AND ACOMITATION AND ACOMITATION AND ACOMITATION AND ACOMITATION AND ACOMITATION AND ACOMITATION ACOMITATION AND ACOMITATION ACCORDING AND ACOMITATION ACCORDING ACCO		and the state of t	7,978
Chips Roundwopd Residue ¹	801,949 734,612	274,295	276,495	162,454	oortoommeniik kasta siista kaalinahaa ka qabayaa gagaanaasii Ooli olio Ahrii walii	1,595	22,343	64,767
Total Chips	1,536,561		**************************************	And the second s	de ligen en grid en group de stiere gebruik en de group de ligen en de de		COMPANIAL MARIAN MANAGEMENT AND	Services
Olympic Peninsula Total logs	237,375	Time de character province province contracted and decision in a contract province contract province contract contract province contract p	158,136	10,494	3,487	dalapan oran da salah di sasa silak di sasa da sana da sana da sasa da sana da sana da sana da sana da sana da	12,200	53,058
Chips Roundwood Residue ¹	714,999 468,660	66,163	405,670	34,410	76,959	Andrea - Aller	24,972	106,825
Total Chips	1,183,659	energia mentencia de policida de del de		in 200 may militar (vice popular de Carlo Linea de Carlo Car	ilidala sessa america (politico con con cidida e con politica con politica e con			ilan ilan
Lower Columbia/ Inland Empire ² Total logs	89,956	17,041	57,518	- Announce of the second control and a second contr				15,397
Chips Roundwood Residue ¹	1,318,699 2,445,067	387,450	273,171	151,432	16,520	230,225	121,156	138,745
Total Chips	3,763,766	The state of the s		Open Annie (1900 projekti konstrumente en	AND CONTRACTOR OF THE PROPERTY			iid ah
otal, State Total logs	392,942	17,618	244,470	38,734	3,487		12,200	76,433
Chips Roundwood Residue	2,835,647 3,648,339	727,908	955,336	348,296	93,479	231,820	168,471	310,337
Total Chips	6,483,986				AAA FOOTON AAA TII SII SII SII SII SII SII SII SII SII			

 $^{^{\}mathrm{1}}$ Species breakdown for residue chips is not available

²Combined to avoid disclosure

Table 53 Residue and off-site roundwood chip consumption by state or province (Tons, dry weight)

Economic area and type of material	Total volume	Washington	Oregon	Idaho	British Columbia	Other
Puget Sound Chip residue ¹ Chip roundwood Sawdust and shavings	734,612 801,949	589,766	and a continuous properties of the continuous and c	6,630	202,238	3,315
Total	1,536,561 ³	589,766		6,630	202,238	3,315
Olympic Peninsula Chip residuel Chip roundwood Sawdust and shavings	468,660 714,999 40,718	584,065 7,903		und esca de l'acceptant de l'accepta	130,934 32,815	ann chir ann chir
Total	1,224,377 ³	591,968	asartuma akun minin asartum akun mendilikan dinakan dinakan dinakan dinakan dinakan dinakan dinakan dinakan di Salam salam	<u>anno periode anticipações e que emilitar en u</u> ita mismonte de telefolia ambititat de la compansión de la co	163,749	edin - wije
Lower Columbia/ Inland Empire ² Chip residue ¹ Chip roundwood Sawdust and shavings	2,445,067 1,318,699 249,336	804,106 144,441	326,031 103,939	188,562 956	Silver state Autor state Silver state	
Total	4,013,102 ³	948,547	429,970	189,518	g ga	
Total, State Chip residue ¹ Chip roundwood Sawdust and shavings	3,648,339 2,835,647 290,054	1,977,937 152,344	326,031 103,939	195,192 956	333,172 32,815	3,315
Total	6,774,040 ³	2,130,281	429,970	196,148	365,987	3,315

 $^{^{1}}$ State or province of origin for residue chips is not available

 $^{^{2}}$ Combined to avoid disclosure

 $^{^3}$ Includes chip residue total

Table 54 Number of shake and shingle mills and their operating characteristics

	Number of		Total single shift capaci (Squares)	e ty ¹	Average number of operating days/year
Economic area and county	mills	Shake	Shingle	Other	
Puget Sount King/Pierce ² Skagit Snohomish Whatcom	4 15 13 4	147 1,195 589 60	60 356 710 30	20 39 10 25	155 166 156 150
Total	36	1,991	1,156	94	159
Olympic Peninsula Clallam Grays Harbor Jefferson/Thurston ² Lewis Pacific	30 33 3 10 3	1,929 2,933 95 229 473	857 509 45 80	25 409 4	169 183 198 144 131
Total	79	5,659	1,491	438	171
Lower Columbia Clark Cowlitz Wahkiakum	3 6 3	105 166 105	50 210 52	16 14 	218 139 153
Central Washington/ Inland Empire ² Chelan/Pend Oreille/ Stevens ²	4	69	5	18	133
Total		69	5	18	133
otal, State	131	8,095	2,964	580	166

 $^{^{1}8} ext{-hour}$ shift capacity

 $^{^{2}\}mathsf{Combined}$ to avoid disclosure

Table 55 Number of shake and shingle mills with selected equipment

Economic area and county	Chipper	Barker	Burner
Puget Sound .			
King/Pierce ¹	1	NA NE	1
Skagit	MP SW	an em	9
Snohomish	3	an an	4
Whatcom	iper pin	Marin Mills	1
Total	4		15
Olympic Peninsula	templak kalanci MAC strake Makaban Kemban kan kan kalanci kalanci kan	e en de la companya del companya de la companya del companya de la companya del la companya de la companya	
Clallam	1	we we	17
Grays Harbor	4	Mer die	12
Jefferson/Thurston ¹	der sin	and and	1
Lewis	1	an an	2
Pacifc	ų.	see all	an an
Total	reproduction to the contract of the contract o		32
10001	***************************************	\$	J£
Lower Columbia			
Clark	1	gain spile	ar- ar-
Cowlitz	2	as an	sin sin
Wahkiakum	yen ser-	and star-	er er
Total	3	gliv- glik	opheraldia eta de irane era de della eta era era era era era era era era era er
		ninon and a statement was informative and a single mass a cash knows a statement was a massiving as a vision	
Central Washington/ Inland Empire ¹ Chelan/Pend Oreille			
Stevens,	1	are sur	all vin
Total	villade et die villade et die die villade et die die villade et die villade et die villade die die die die die The villade et die villade et		
Total, State	15		47

 $^{^{1}}$ Combined to avoid disclosure

Table 56 Number of shake and shingle mills by tenure of present ownership and site occupancy

Type of mill and		Tenu	re of pres	ent mill ow	nership (yea	rs)
site occupancy (Years)	All mills	0-2	3-5	6-10	11-20	21+
Shake and shingle 0-2 3-5 6-10 11-20 21+	3 9 41 52 26	1 1 3 2	2 8 3 5 1	34 6 3	1 39 4	** ** ** ** ** **
Tota1	131	8	19	43	44	17

Table 57 Type of wood consumed (Thousand board feet, Scribner log rule)

Economic area and county	All types	Sound logs	Utility logs	Other
Puget Sound ,	~ * * * *	1 060	200	120
King/Pierce ¹	2,180 28,834	1,860 27,314	17	1,503
Skagit Snohomi s h	10,239	5,221	3,554	1,464
Shonomish Whatcom	920	325		595
Wild COM				
Total	42,173	34,720	3,771	3,682
)lympic Peninsula	50000000000000000000000000000000000000			
Clallam	23,143	18,509	690	3,944
Gravs Harbor	37,490	29,902	924	6,664
Jefferson/Thurston ¹	588	312	***	276
Lewis	1,516	378	41	1,097 480
Pacific	3,519	2,754	285	400
Total	66,256	51,855	1,940	12,461
Lower Columbia			and the second s	
Clark	2,855	1,337	1,518	
Cowlitz	5,402	3,254	1,534	614
Wahkfakum	1,137	987	66 46	150
Total	9,394	5,578	3,052	764
Cantus Nachinaton/	nadanadanakon kerenden selapah kelendeki deki kelendeki kelend			
Central Washington/ Inland Empire				
Chelan/Pend Oreille/				gr 10 m
Stevens	599	122	88	389
Total	599	122	88	389
	118,422	92,275	8.851	17,296

 $^{^{1}}$ Combined to avoid disclosure

Table 58 Ownership origin of logs consumed (Thousand board feet, Scribner log rule)

				Bureau of		Forest	Industry	
Economic area and county	All owners	State	National Forest	Land Management	Other public	Own wood supply	Other wood supply	Farmer and miscellaneous private
Puget Sound King/Pierce ¹ Skagit Snohomish Whatcom	2,060 27,331 8,775 325	200 1,706 90	260 18,607 5,733 210	See Here Here Here Here Here Here Here H	Administration and the management of the second seco	2,638 157	1,832 660 25	1,600 4,254 519
Total	38,491	1,996	24,810			2,795	2,517	6,373
Olympic Peninsula Clallam Grays Harbor Jefferson/Thurston ¹ Lewis Pacific	19,199 30,826 312 419 3,039	7,549 2,840 60 2,002	321 3,679 192 50	250	326 4,959	668	10,914 14,272 120 309 1,037	89 4,158
Total	53,795	12,451	4,242	250	5,285	668	26,652	4,247
Lower Columbia Clark Cowlitz Wahkiakum	2,855 4,788 987	72	556 34	namen and a state of the state			2,087 4,754 987	140
Total	8,630	72	590	mittel distribution de de de la companya de la comp unido distribution de la companya del companya de la companya de la companya del companya de la companya del la companya del la companya de la compa	entinellelisteten en sensetten konderekse gelen uitkelegen senset en senset en senset en senset en senset en s	del del de l'acceptant de l'acceptan	7,828	140
Central Washington/ Inland Empire ¹ Chellan/Pend Oreil Stevens ¹	le/ 210	en da	210			e de criticis de la companya de companya d	ONE OLD ONLINE CONTROL OF THE OLD	
Total	210		210				makalan mengalah dilak menampungan pengganggan penggan penggan penggan penggan penggan penggan penggan penggan Sejer Seor	ood aanooliinka good daa oo o
Total, State	101,126	14,519	29,852	250	5,285	3,463	36,997	10,760

 $^{^{1}\}mathrm{Combined}$ to avoid disclosure

Table 59 Production and disposition of wood and bark residues (Tons, dry weight)

		All residu	res	l Wo	ood Resid	lue	Bari	residue	<u> </u>
Economic area and county	Total	Used ¹	Unused	Total	Used ¹	Unused	Total	${\tt Used}^1$	Unused
Puget Sound			COMMERCIAL COMPANIES AND COMPANIES C		***************************************			000000000000000000000000000000000000000	
King/Pierce ²	1,978	1,978		1,388	1,388	46K 20W	590	590	~-
Skagit	20,057	6,945	13,112	14,267	4,983	9,284	5,790	1,962	3,828
Snohomish	8,743	8,196	547	6,448	6,079	369	2,295	2,117	178
Whatcom	530	245	285	407	231	176	123	14	109
Total	31,308	17,364	13,944	22,510	12,681	9,829	8,798	4,683	4,115
)lympic Peninsula	MINISTER MANAGEMENT OF THE PARTY OF THE PART			TO THE PARTY OF TH			determine ett langsat op top et det appelled et determine lan		
Clallam	24.775	5,956	18,819	18,490	4,454	14,036	6,285	1,502	4,783
Gravs Harbor	34,281	26,084	8,197	24,333	18,388	5,945	9,948	7,696	2,252
Jefferson/Thurston ²	507	188	319	400	163	237	107	25	82
Lewis	1,591	1,154	437	1,402	1,101	301	189	53	136
Pacific	3,643	2,136	1,507	2,507	1,530	977	1,136	606	530
Total	64,797	35,518	29,279	47,132	25,636	21,496	17,665	9,882	7,783
ower Columbia					allelen miller frankrik	et deuro, la Vinnelenna di Silva de el decentra del regionisso.			Marana - Albandra - Hallandr - Elicandr
Clark	2,948	2,836	112	2,026	2,026	#0 OH	922	810	112
Cowlitz	5,740	6,740		5,229	5,229		1,511	1.511	***
Wahkiakum	1,076	1,076	***	758	758	Min and	318	318	est can
Total	10,764	10,652	112	8,013	8,013		2,751	2,639	112
entral Washington/ Inland Empire ² Chelan/Pend Oreille/	na de la comissión de la comis	Add of the first of the committee of the		colored to provide the control of th	a en alle del del del del del del del del del	Kickelander (1965) er film film film film film film film film	icolotinini e estabolo estabolo de la vierra per o estabolotica.		ambidish kilosof mel ni barran musik li mel men h
Stevens ²	330	99	231	270	39	231	60	60	em ess
Total	330	99	231	270	39	231	60	60	
otal, State	107,199	63,633	43,566	77,925	46,369	31,556	29,274	17,264	12,010

 $^{^{1}\}text{Used}$ residues were not necessarily consumed in the area in which they were produced

 $^{^{2}}$ Combined to avoid disclosure

Table 60 Production and disposition of wood residues (Tons, dry weight)

	Special of the second s	Merchichebensenterbeite gespositätiske von die best	A 1 1	Ali lypes	A STATE OF THE PARTY OF THE PAR	and a property of the state of				Coarsel			M- 44		6	THE PERSON NAMED IN COLUMN TO PERSON NAMED I	Acceptable Management of American Control of A	a de la company
Economic area and county	Total	Total used3	Pulp and board	- 12 - 13 - 13 - 13 - 13 - 13 - 13 - 13 - 13	Other	Unused	Total	Total used ³	Pulp and board	Fue)	Other	Unused	Total	Total used3	Pulp and	10134	on the first of th	A
Puget Sound King/Pierce ⁴ Skagit Snohomish Whatcom	1,388 14,267 6,448 6,448	1,388 4,983 6,079 237	\$ 0.00 m m m m m m m m m m m m m m m m m		1,638	9,284	526 5,119 2,235 172	526 1,794 1,993	A calc	462 1.128 1.700	64 666 293 86	3,325	862 9,148 4,213	3,189 4,086		Ì	67 972 675	5,959 127
Total	22,510	12,681	Sala ale Temperatura memperpenjakan dalam mengendaran mengendaran	9,713	896*2	9,829	8,052	4,399	(A) (B)	3,290	1,109	3,653	14.458	282	And the second s	4 2 3	145	0.6
Olympic Peninsula Claliam Grays Harbor Jefferson/Thurston ⁴ Lewis Pacific	18,490 24,333 400 1,402 2,507	4,454 18,388 1,101 1,530	700	6,334 16,027 34 309 977	120 1,626 129 792 553	14,036 5,945 237 301	6,219 9,903 1966 634	1,191 7,428 66 532 686	735	1,163 5,964 34 309 416	28 729 32 223 270	5,028 2,475 130 102 416	12,271 14,430 204 768 1,405	3,263 10,960 947 869 869		3,171	8977 899 899 899 899 899 899 899 899 899	9,008 3,470 1099
Total	47,132	25,636	735	21,681	3,220	21,496	18,054	6,903	735	7,886	1,282	8,151	29.078	15.733	10 Mar.	1000	502	199
Lower Columbia Clark Cowlliz	2,026	2,026	201 6	2,020	9	em que	724	724	***	718	9		200	and the state of t		A 45 8 (3 3)	1,300	13,345
желктакит -	758	758	1,100	679	79	3 3 6 5	1,388 282	1,388	772	481 249	335	6 P 3	3,841	1,302 3,841 476	2,414	1,302 1,026 430	401	1 1 1
Total	8,013	8,013	3,186	4,206	621	Marine and the state of the sta	2,394	2,394	772	1,448	174	# 13	5,619	5,619	2.414	2.768	747	
Central Washington/ Inland Empire Chalan/Pend Oreille/				A de la companya de l	mind ferromony and wide white groups are proposed in		demography of the manual of the holds of the state of the	der establishmen franchische f		na Andréw de la manura providan noto populações	e de la composiçõe de l		PROPERTY COMMERCE STREET, CONTRACTOR CONTRAC	MER Francisco (physpotholoxico ex 1974 — million	The contract of the contract o	27,6-8	entervaluation plane en voca de description e	4.0
. suaxans	270	39	Additional annotation of projects or states and physiological discountering a posterior of the states of the state	dr sa	36	231	128	20	ŧ	:	20	108	142	Ø.	į	1	9,1	323
Total	270	39	a in	4	39	231	128	20	And the state of t	4	0.2	108	142	19	And the state of t	4	10	104
Total, State	77,925	46,369	7,921	35,600	6,848	31,556	28,628	16,716	1,507	12,624	2.585	11 912	AC 987	30 653	ellandikatura avuu	Andrews and the second		C 34
A P. C. C. P. S. P. C. P. B. T. S. P. C. P. B. T. S. P. P. S. P. S	elakinstyras) – dandammanssensi asamaja jilmaga ya Amm	**************************************	AND THE RESIDENCE OF THE STREET, AND THE STREE	**************************************	manage (A)	Manuscript of the 14 to Common property was an	h-Phille commissional made production of	ediselamentaleandqueqqq sesses systemaqu			1024	776477	162,89	29,623	2,414	22,976	4,263	19,644

Splints and sawdust

 3 used residues were not necessarily consumed in the economic area in which they were p

ombined to avoid distribution

Table 61 Production and disposition of bark residues (Tons, dry weight)

		and the second seco		Bark		A STATE OF THE PARTY OF THE PAR
Economic area and county	Total	Tota] used	Pulp and board	Fuel	Other	Unused
Puget Sound King/Pierce ² Skagit Snohomish Whatcom	590 5,790 2,295 123	590 1,962 2,117 14	ean only disc tree disc tree disc tree disc tree and the	580 1,435 2,080	10 527 37 14	3,828 178 109
Total	8,798	4,683		4,095	588	4,115
Olympic Peninsula Clallam Grays Harbor Jefferson/Thurston ² Lewis Pacific	6,285 9,948 107 189 1,136	1,502 7,696 25 53 606	up de Ne de Se er Se er Se er Se se	1,502 7,503 530	193 25 53 76	4,783 2,252 82 136 530
Total	17,665	9,882	inner grinden i gring gri den mandelli del si del cinci (cinci (cinci (di del mengen innere)). Sulle della	9,535	347	7,783
Lower Columbia Clark Cowlitz Wahkiakum	922 1,511 318	810 1,511 318	886	810 472 318	153	112
Total	2,751	2,639	886	1,600	153	112
Central Washington Inland Empire ² Chelan/Pend Oreille/ Stevens ²	60	60	an di-	vib. 685	60	
Total	60	60	núr dir	one side	60	
Total, State	29,274	17,264	886	15,230	1,148	12,010

 $¹_{\mbox{Used}}$ residues were not necessarily consumed in the economic area in which they were produced

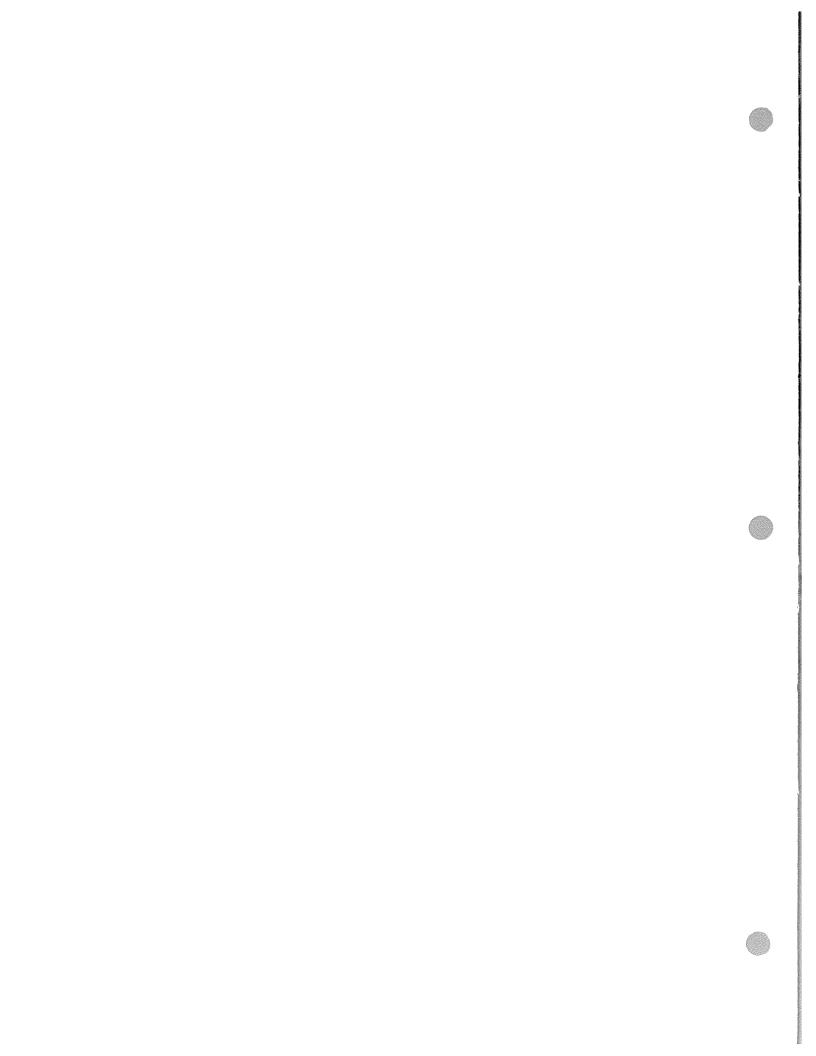
²Combined to avoid disclosure

Table 62 Mill production by product type

Economic area and county	Shakes	Shingles	Other ¹	
		Squares		
Puget Sound		•		
King/Pierce ²	16,405	6,000	1,500	
Skagit	156,677	73,019	2,951	
Snohomish	64,027	36,040	1,556	
Whatcom	4,900	1,080	1,800	
Total	242,009	116,139	7,807	
Olympic Peninsula	400 Minus Month American Lauring Consideration Considerati		000-01-1949-01-1860-01-1860-18-бания в алекто поливания в дестра на продоржува од основного с	
Clallam	171,016	111,000	581	
Grays Harbor	329,801	78,357	41,950	
Jefferson/Thurston ²	8,872	70,337	41,930	
Lewis	26,088	2,020	675	
Pacific	45,297	4,843	0/3	
Total	581,074	196,220	43,206	
ower Columbia				
Clark	20,490	10,473	1,950	
Cowlitz	14,627	45,953	2,505	
Wahkiakum	9,375	3,465	2,505	
Total	44,492	59,891	4,455	
entral Washington and Inland Empire ² Chelan/Pend Oreille/	wheelphological control of the health and the against an except process and process are process and pr		Afficial principal place (All principal place) and a state of the stat	
Stevens ²	5,075	153	577	
Total	5,075	153	577	
otal, State	872,650	372,403	56,045	

 $^{^{\}mathrm{1}}$ Other includes such products as hip and ridge shakes, wedges, etc.

² Combined to avoid disclosure



Pole, Post, and Piling Mills

Table 63 Number of pole, post and piling mills and their operating characteristics

Economic area	Number of mills	Yearly installed capacity, Thousand board feet, Scribner log rule		Average number of operating days in 1984	
		Peeling	Treatment	Peeling	Treatment
Puget Sound	3	13,676	9,855	195 (3)	161 (3)
Olympic Peninsula/ Lower Columbia ²	5	8,153	13,320	140 (4)	303 (2)
Inland Empire	3	13,043	15,830	93 (3)	110 (3)
Total, State	11	34,872	39,005	142 (10)	187 (8)

 $^{^{1}}$ Number of mills is noted by figures in parentheses

Table 64 Number of pole, post and piling mills by tenure of present ownership and site occupancy

Years of site occupancy		Tenure of present mill ownership in years				
	Total	0-2	3-5	6-10	11-20	21+
ole, post and piling						
3-5	and one	ner see	NA 256	we do-	*** ***	***
6-10	not time	MOV SAM	~ ~	444	MT9 AME	***
11-20	2	no 100	***	et 100	2	W 40
21+	9	min wip	***	1	3	5
	Annual and		Mathematica in finite in the debate acceptance of			
Total	11	466. sps	WF No	1	5	5
				+	5	3

 $^{^{2}}$ Combined to avoid disclosure