

# Washington Mill Survey — 1986

Series Report No. 10

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Forest Regulation  
& Assistance

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## FOREWORD

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This report presents comprehensive statistics on wood consumption and the characteristics of primary wood processing mills operating in Washington during calendar year 1986. It documents the findings of the tenth biennial survey about mill characteristics, wood flows, and the input of raw materials into the state's six wood-using industries:

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

The 1986 statistics were compiled through a mail survey. Telephone follow-up was conducted in 1987. 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 1986.

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

Although 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 recent trend information for the period 1976 through 1986. Information about the hardwood industry is provided in the text since this industry is not considered separately in the appendix tables. Residue, commodity production, and wood consumption information is included in the report since this helps in tracking production and consumption trends.

## ABBREVIATIONS

bf = board feet

M = thousand

Mbf = thousand board feet, Scribner

MMbf = million board feet, 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

S.W.E. = Solid wood equivalent

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**Report Review  
Comparison of Past Years**



# Report Review

## Comparison of Past Years

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This section of the report reviews the Washington wood products industry during the past ten years. First the number of milling operations is reported by year for the six surveys conducted. This is followed by a brief discussion of the 1984-86 period. Then a ten-year review is provided.

**Table 1**  
**Number of Operations**  
**Included in the Surveys\***

	1976	1978	1980	1982	1984	1986
Sawmills	175	182	208	169	150	117
Veneer and plywood	36	36	34	27	28	26
Pulp	26	26	23	21	20	20
Shake and shingle	252	337	267	195	131	117
Post, pole and piling	22	23	21	13	11	13
Log export	<u>81</u>	<u>160</u>	<u>134</u>	<u>124</u>	<u>102</u>	<u>101</u>
Totals	592	764	687	549	442	394

\* Only primary wood processing mills and log export operations that operated during the survey year are included.

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### 1984-1986 IN REVIEW

The total number of operations in the forest products industry decreased 11 percent from 1984 to 1986. By percent, the post, pole and piling sector increased 18; shake and shingle dropped 10; veneer and plywood decreased 7; and sawmills decreased 22. All sectors declined except post, pole and piling.

The lumber sector has shown a 5 percent increase in roundwood consumption from 1984 to 1986. Lumber production increased 4 percent.

The log export sector share of total log consumption declined from 39 percent in 1984 to 37 percent in 1986. Log export volume decreased from 2.3 billion in 1984 to 2.2 billion board feet Scribner in 1986 (a 4.3 percent decrease).

Douglas fir accounted for 46 percent of the harvest volume in 1986, the same percent as in 1984. Douglas fir increased as a percent of log export log consumption from 48 to 52 percent of the volume exported from 1984 to 1986.

Those mills more than two-thirds dependent on a single ownership class for log supply decreased from 272 in 1984 to 216 in 1986. The percent of all operating mills more than two-thirds dependent on a single owner class, however, declined only from 62 percent in 1984 to 55 percent in 1986. Mills more than two-thirds dependent on public ownership increased 12 percent; private ownership decreased 35 percent.

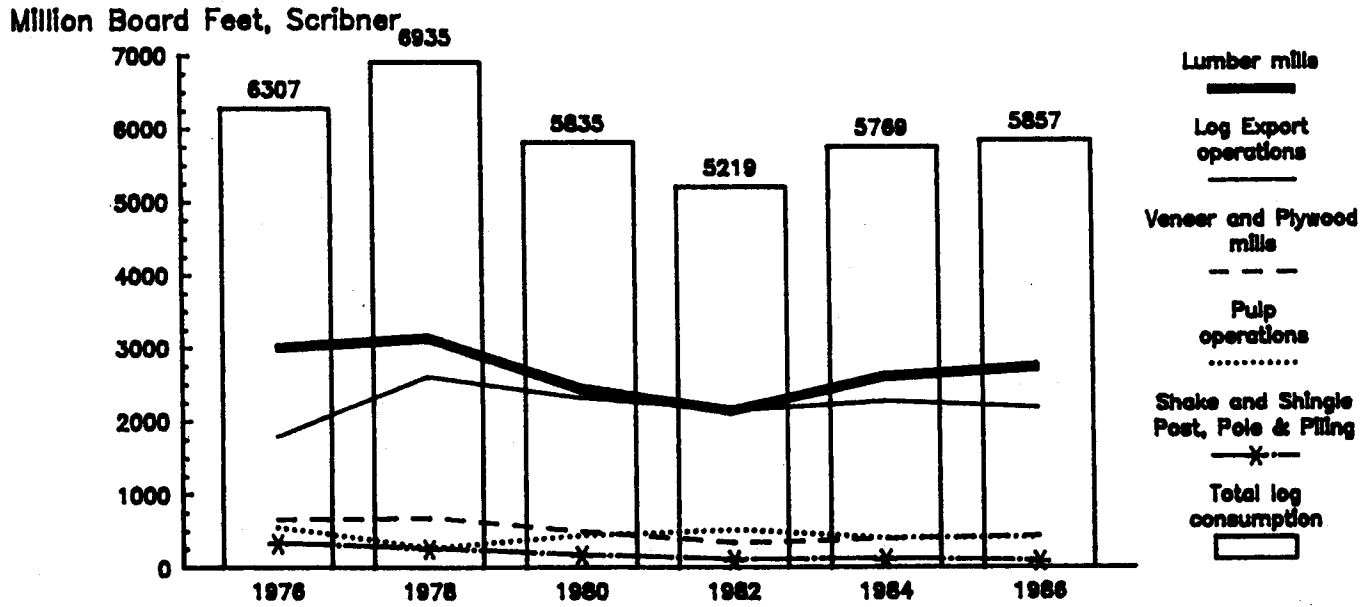
Total residue volume increased from 5.4 million tons in 1984 to 5.7 million tons in 1986. Residue use also increased, going from 5.3 million tons in 1984 to 5.6 million tons in 1986. The percent of wood and bark residues being used remained the same in 1986 as in 1984 at 98 percent. The lumber sector decreased use slightly to 98.2 percent. The veneer and plywood sector use level slightly exceeded 99.6 percent. The shake and shingle industry continues to lag substantially behind with the use of residues at 55 percent.

#### 1976-1986 IN REVIEW

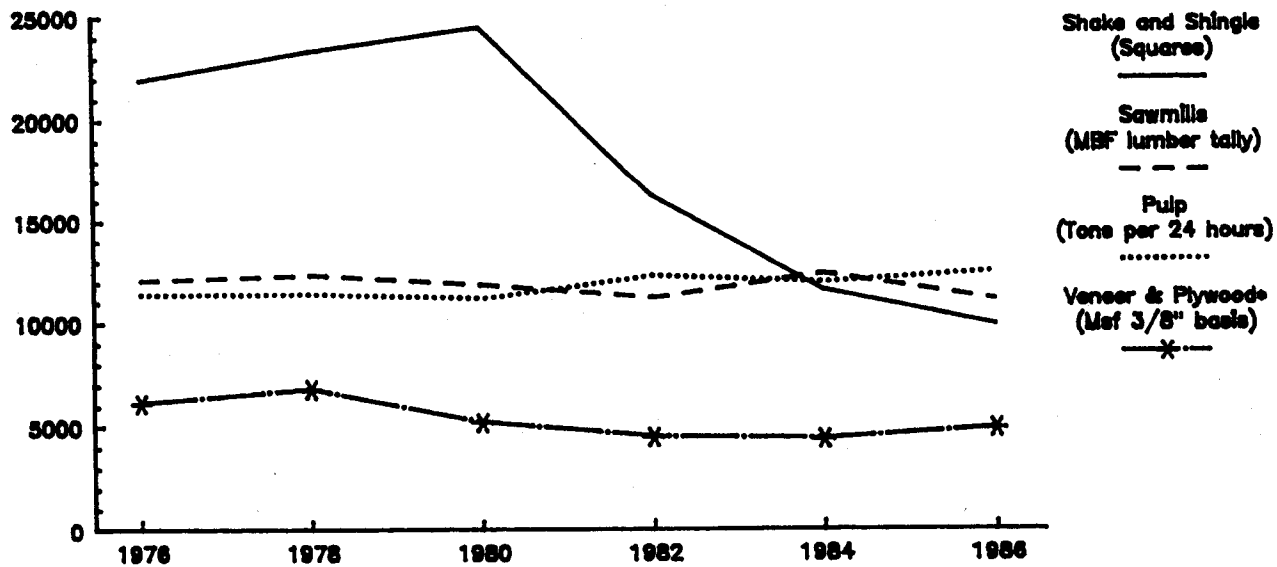
This section compares data developed from the 1976, 1978, 1980, 1982, 1984 and 1986 surveys. During this period the forest industry has undergone substantial change. Consumption peaked at 6.9 billion board feet in 1978 and was at its low at 5.2 billion board feet in 1982. The lumber industry has followed the same cycle and is the primary consumer of logs, although slightly exceeded by log export during the 1982 recession. The sawmilling and log export sectors together have accounted for over four-fifths of the log consumption for the years 1978, 1980, 1982, 1984 and 1986. In 1976 they accounted for over three-fourths.

Installed shift capacity has fluctuated over time. For the lumber sector it peaked at 12.4 thousand board feet per eight-hour shift in 1984 and has declined 10 percent to 11.2 thousand in 1986. The pulp industry has reached a new high for 24-hour capacity at 12,558 bone dry tons. For the veneer and plywood industry, the ten-year capacity high was in 1978 at 6.8 million square feet (3/8" basis) eight-hour shift capacity and for 1986 it is 5.0 million square feet, a one-fourth drop in capacity. The shake and shingle industry has sustained a major decline in capacity. In 1980 the capacity was at 24.5 thousand squares. It has declined to 9.9 thousand squares as of 1986, a capacity decline of over half. This is an industry which greatly depends on the use of old growth western redcedar and is expected to continue to decline because of this.

## Total Log Consumption by Year and Industry



## Installed Shift Capacity



\*Capacity includes total capacity for veneer-only and layup-only operations, but only the veneer in the veneer and layup plants.

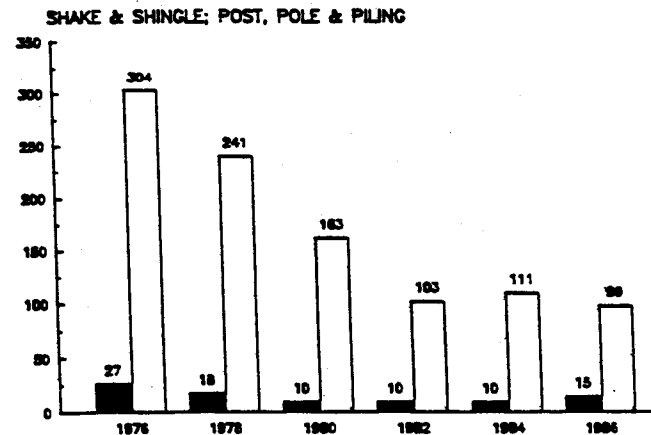
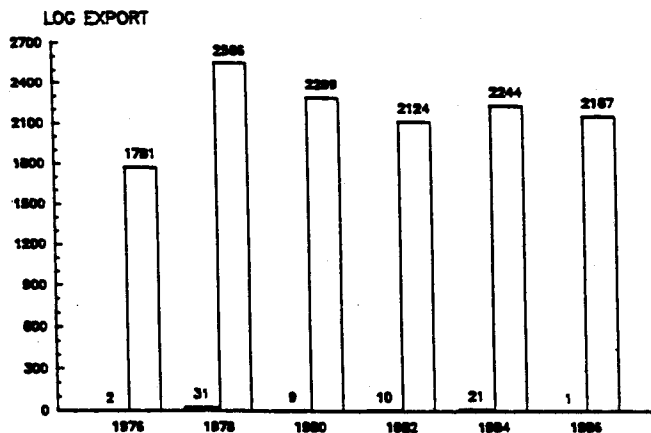
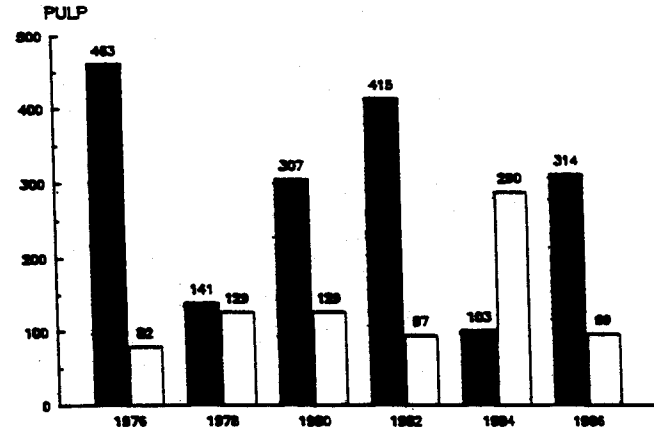
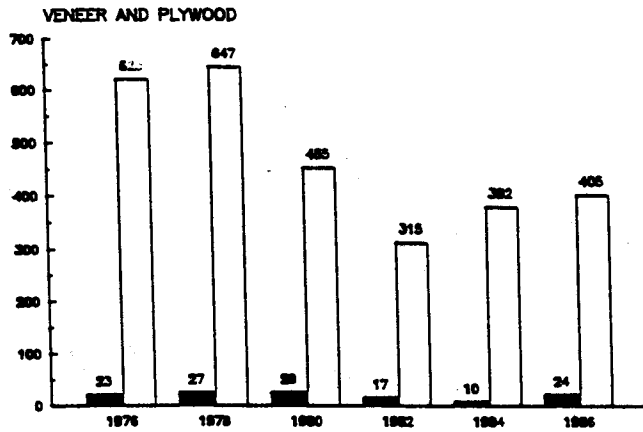
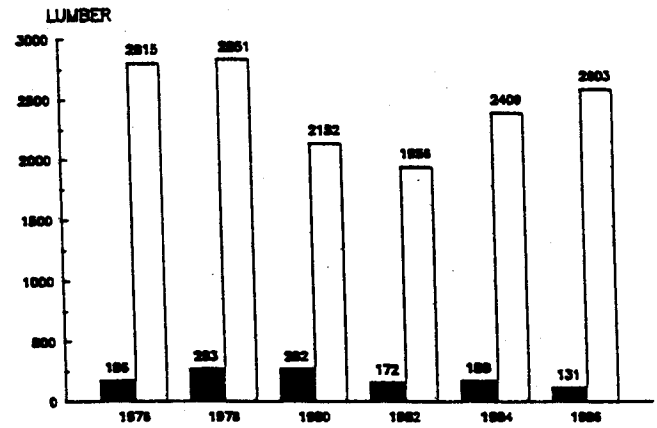
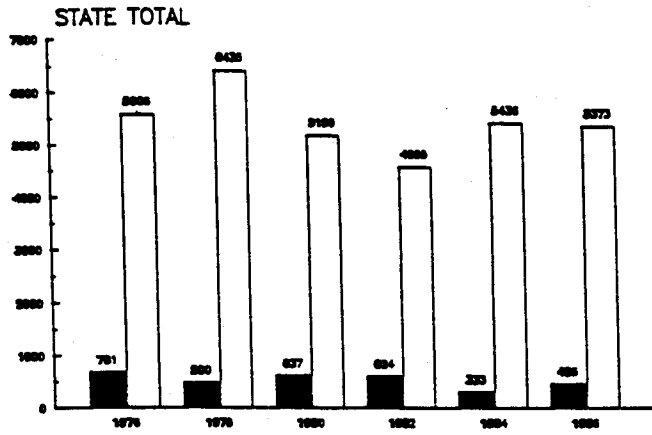
## **Note**

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Roundwood consumption comparing sound and utility grades are shown in total and by sector. The pulp industry is the primary utility log user. Very little utility grade is exported.



# Roundwood Consumption of Sound and Utility Logs (Million board feet, Scribner)



Utility logs

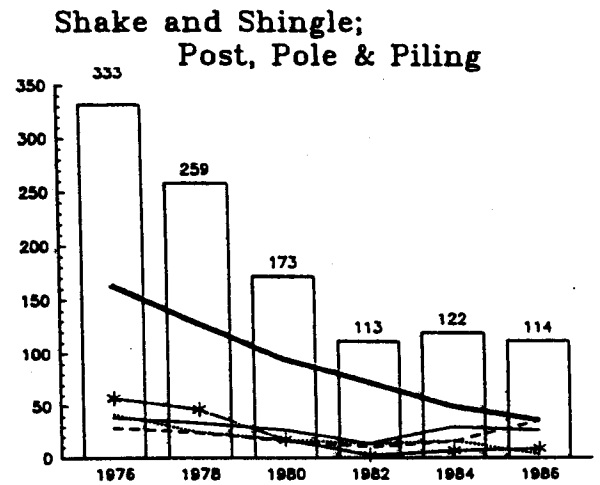
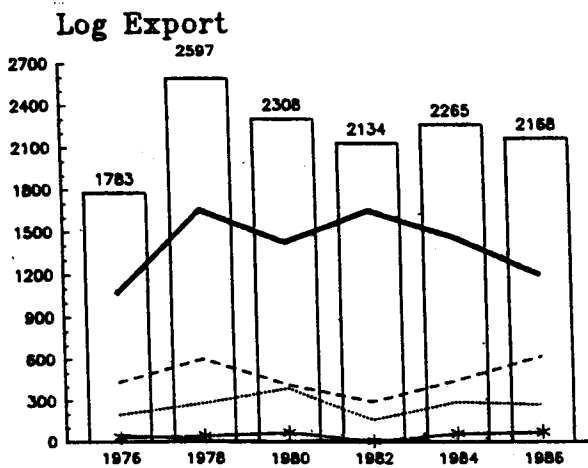
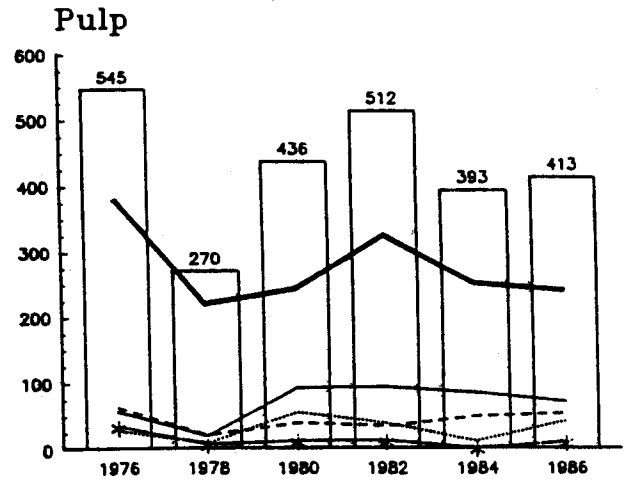
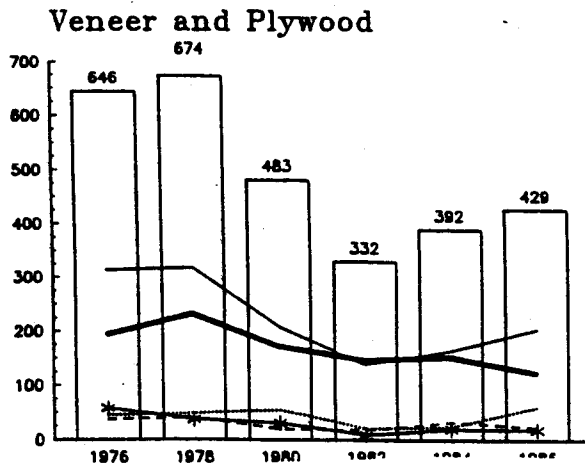
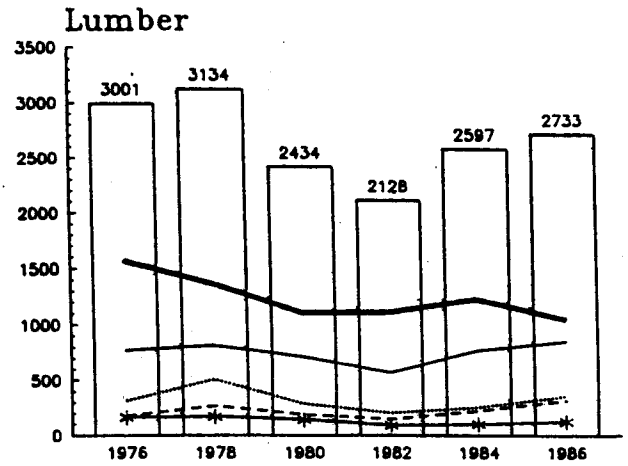
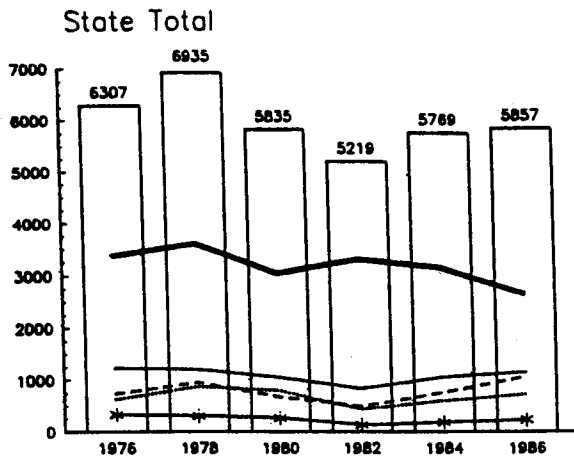
Sound logs

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

## Note

Log consumption by owner class shows that forest industry is the single most important owner class in total. Forest industry's contribution peaked in 1978 at 3.6 billion board feet Scribner and has since declined to 2.7 billion board feet, a decline of one-fourth. The national forests are an important source of logs for the veneer and plywood industry. In 1986 nearly half of this industry's consumption came from the national forests.

# Log Consumption by Ownership Class (Million board feet, Scribner)



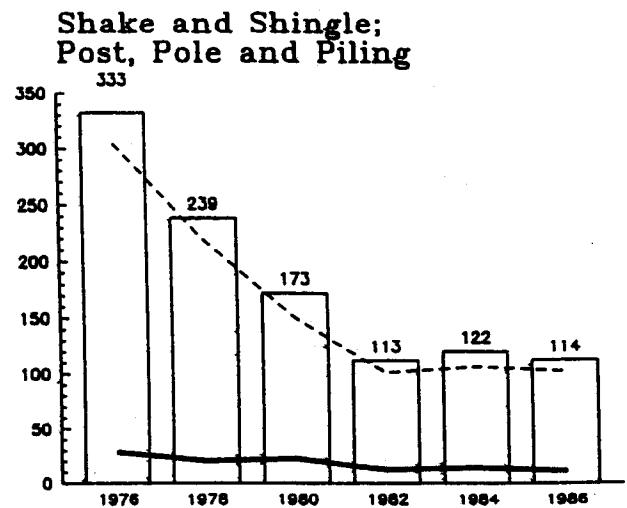
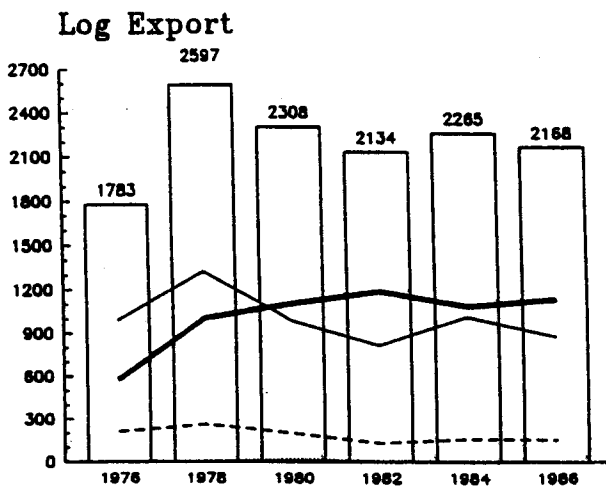
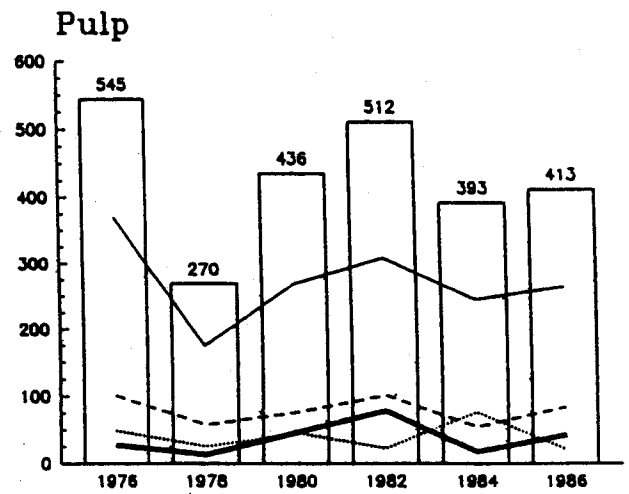
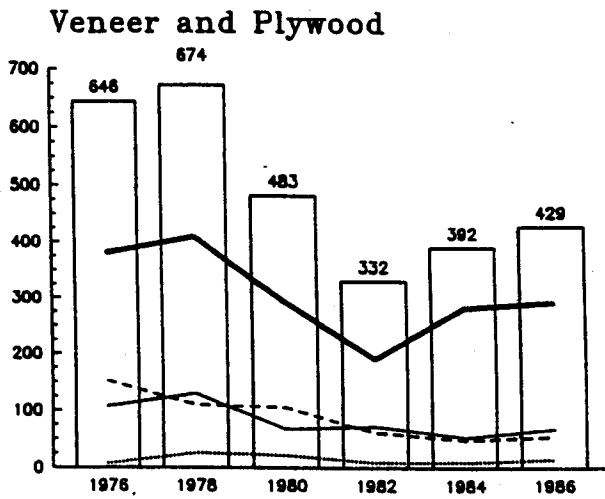
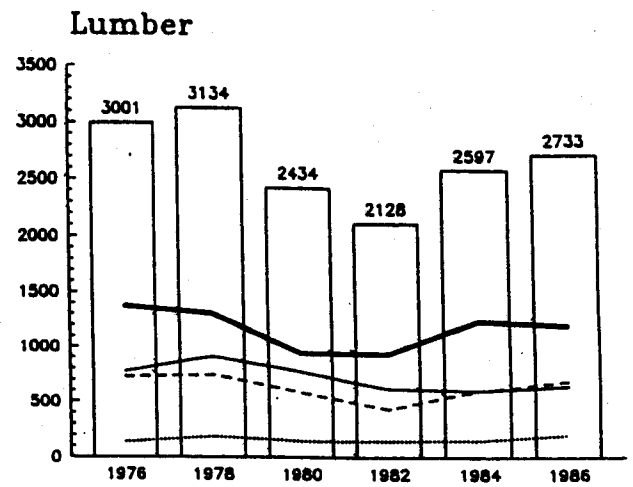
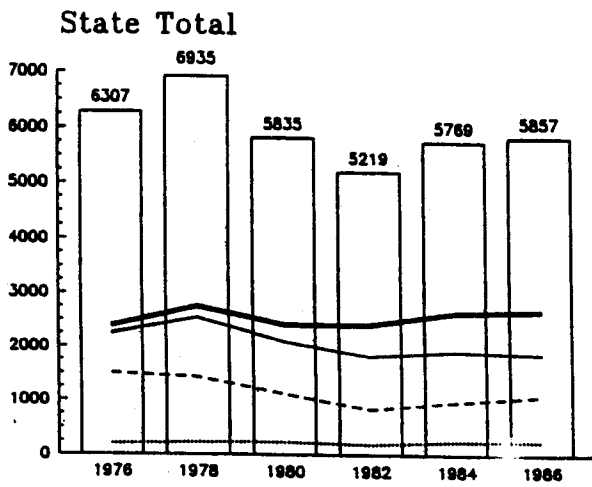
Forest Industry
National Forest
State
Farmer & misc. private
Other public
Total log consumption

## **Note**

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Douglas fir was the most important single species throughout the 10-year period. Hemlock has been a strong second place species. Douglas fir has been the dominant species for the lumber and the veneer and plywood industries. Hemlock has dominated the pulp industry. Western redcedar has been the primary species for the shake and shingle industry. For the log export market, hemlock was first in the 1970s, but Douglas fir has been first since 1980.

# Log Consumption by Species (Million board feet, Scribner)



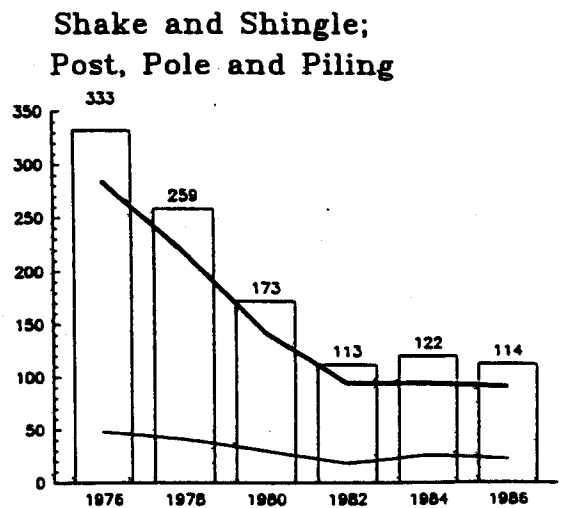
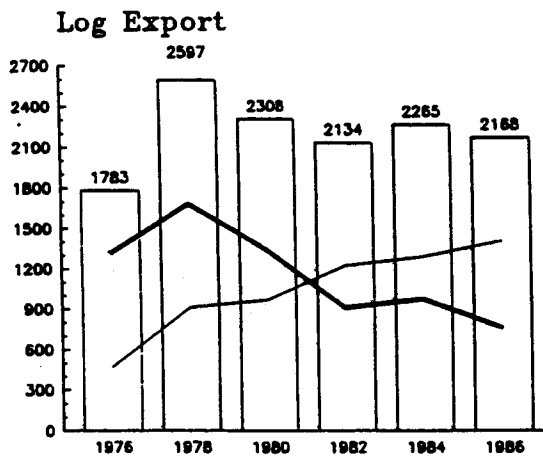
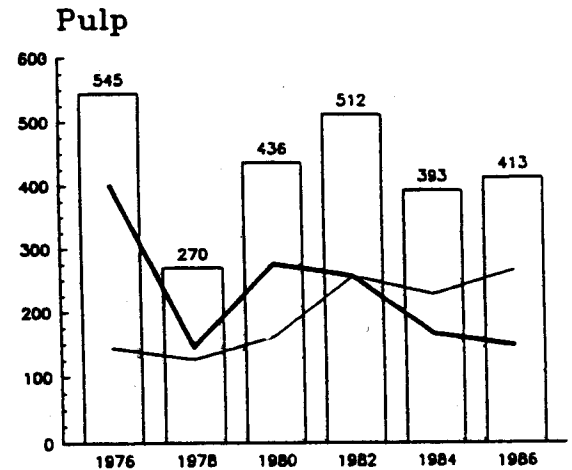
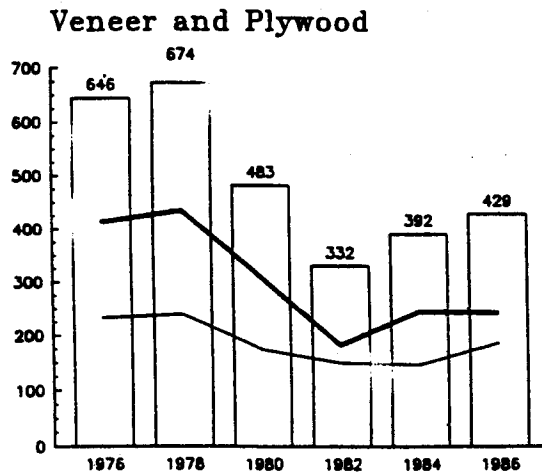
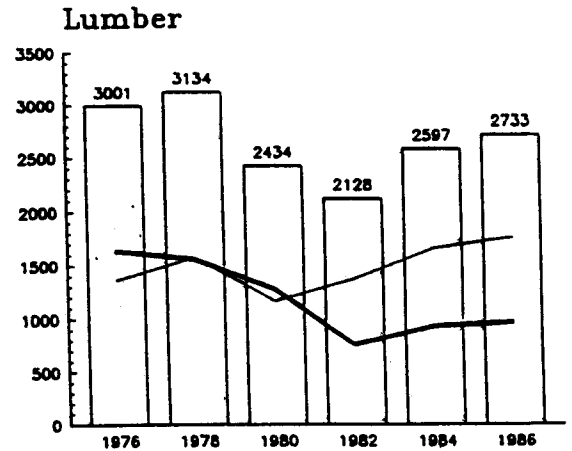
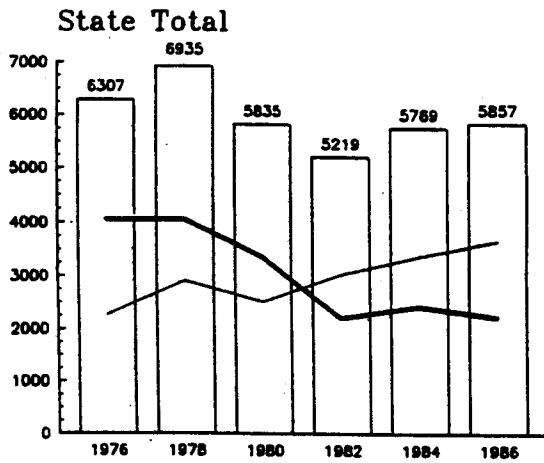
Douglas fir    Hemlock    Other softwoods    Hardwoods    Total log consumption  
 —————    —————    - - - - -    .....    □

## **Note**

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Timber over 100 years of age was the dominant age class through 1980. With the old growth timber a declining resource, young growth timber has become more important. This is a trend which will continue because of current forest management silvicultural practices. Timber stand rotations are usually much shorter than 100 years.

## Log Consumption by Timber Age Group (Million board feet, Scribner)



Old Growth (100+ years)
Young growth (less than 100 yrs.)
Total log consumption

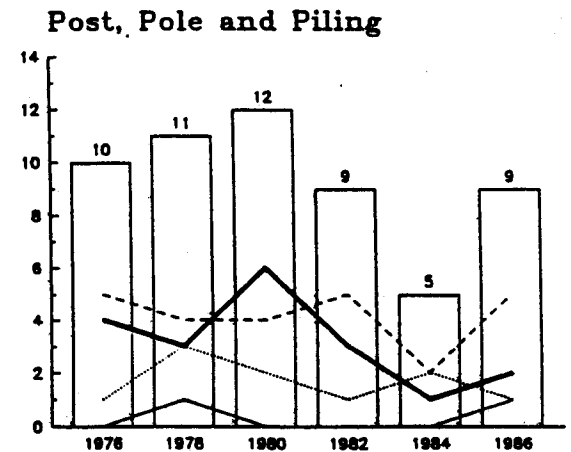
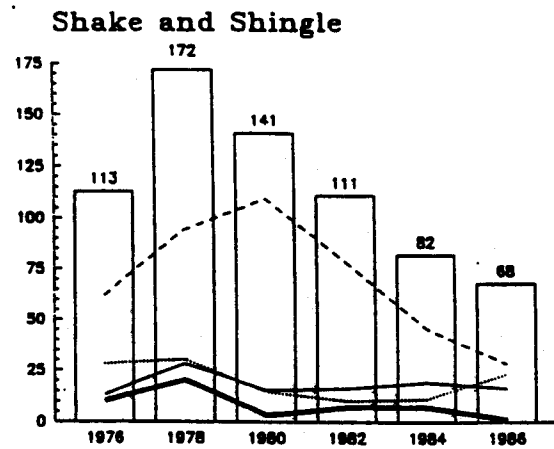
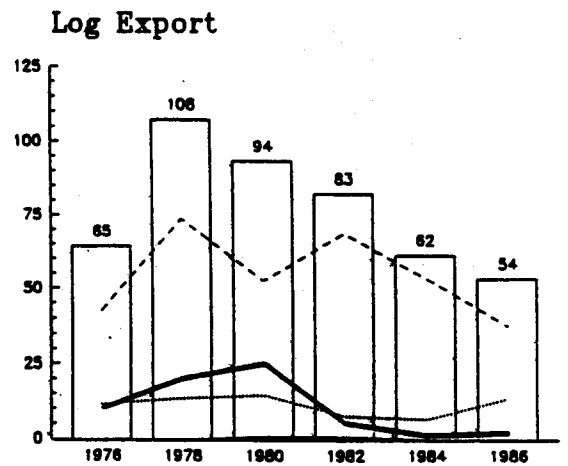
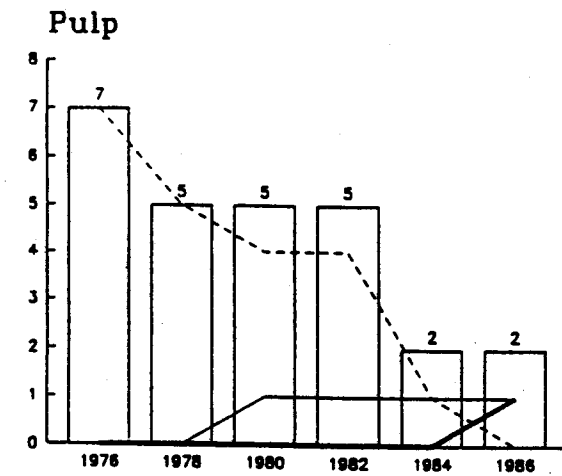
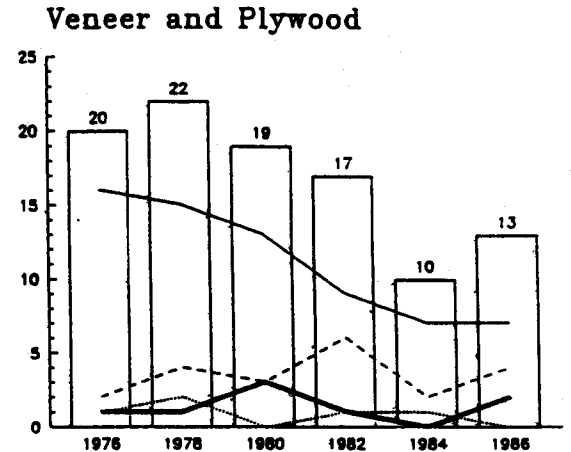
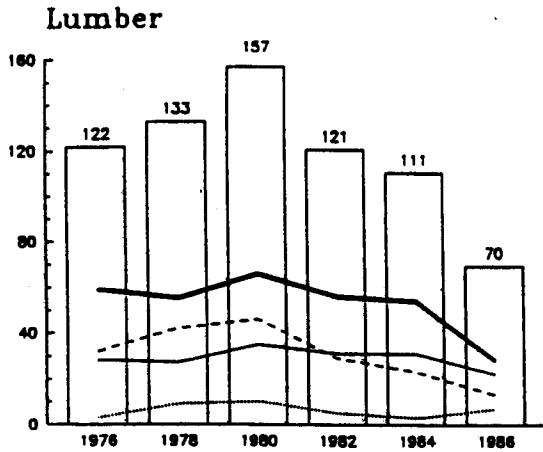
## **Note**

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Mill dependency is shown by graphing mills more than two-thirds dependent on a single ownership. Surprisingly the farmer and miscellaneous private, with 13 percent of the harvest, is the most important owner class for the lumber industry. The veneer and plywood industry depends more on national forest timber than any other ownership. Log export is dominated by the forest industry as the primary source of logs.



## Number of Mills More Than Two-Thirds Dependent on a Single Ownership For Logs (Million board feet, Scribner)



Former and misc. private
National Forest
Forest Industry
State and other public
Total mills

## **Note**

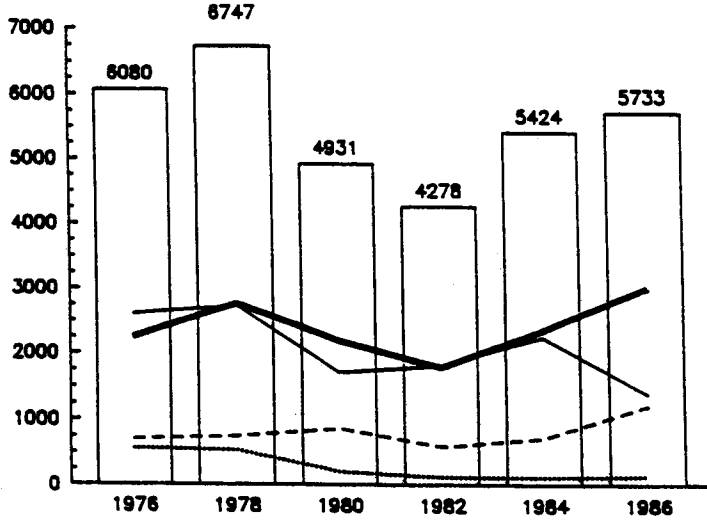
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Residue production has fluctuated from a high of 6.7 million tons in 1978 to a low of 4.3 million tons in 1982.

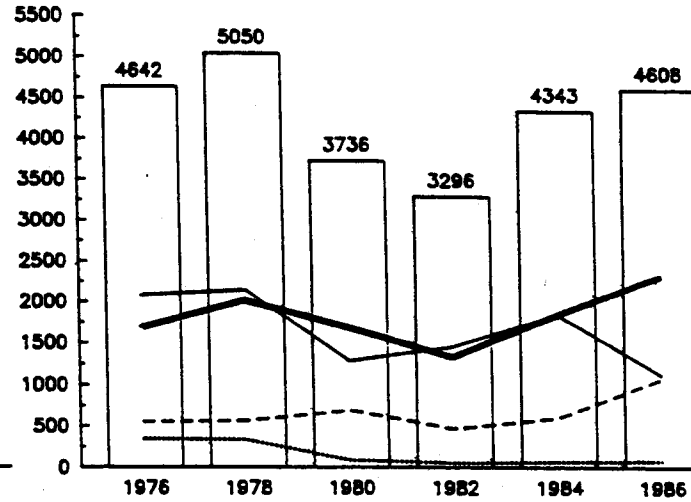
Lumber is the primary source of residues with over 80 percent of the residues produced. Fuel use has been over half the total; pulp has been second with about one-fourth of total residues.

# Production and Disposition of Wood and Bark Residue (Million board feet, Scribner)

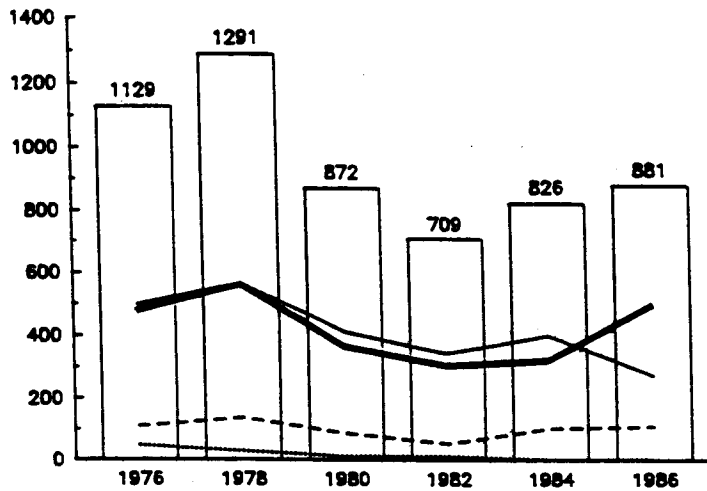
### State Total



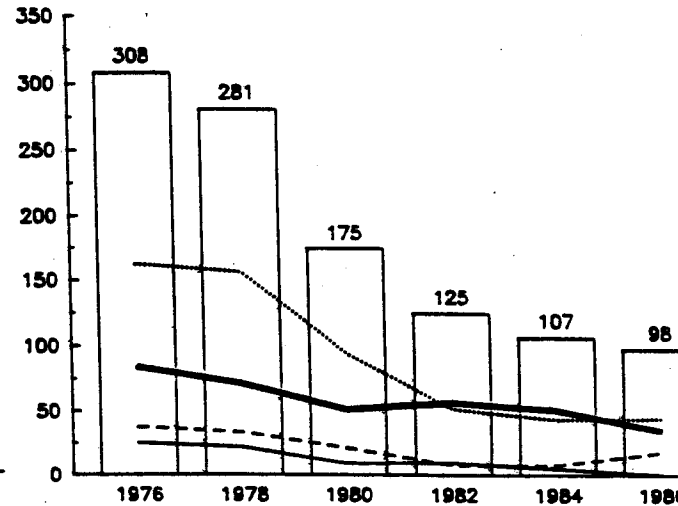
### Lumber



### Veneer and Plywood



### Shake and Shingle



Total residue  
  Unused  
  Other uses  
  Pulp and board  
  Fuel

**Table 2**  
**Table Number Cross Index**  
 (Between the ten Washington mill survey reports<sup>1)</sup>  
 report year and table number

1978 thru 1986	1976	1974	1970 and 1972	1968
1	1	1	1	1*
2	2,26*,76*	2,25,74*	2,24,72*	2*,23,67*
3	3	3	3	3*
4	4	4	4	4
5	5	5	81	--
6	6	6,47,60,72	4,45,58,70	5,42,55,66
7	7,61,77*	7,59,70	6,57,68	19,41,54,64
8	8,76*	8,74*,75	7,72*,73	6*,67*
9	9	9	8	7
10	10,60	18,44,58,69*	17,42,56,67*	16,39,53,63*
11	11	10	9	8
12	12	11	10	9
13	13	12	11	10
14	14	13	12	11
15	15	14	13	12
16	16	15	14	12
17	17	16	15	13
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27	28	27	26	25
28	29	28	27	26
29	30	29	27	27
30	31	30	29	28
31	32	31	31	29
32	33	32	30	30
33	34	33	32	--
34	35	34	--	--
35	36	35	--	--
36	37	36	34	31
37	38	37	35	32
38	39	38	36	34
39	40	39	37	35
40	41	40	38	33

**Table 2 (continued)**  
**Table Number Cross Index**  
 (Between the ten Washington mill survey reports<sup>1</sup>)  
 report year and table number

1982 thru 1986	1978 and 1980	1976	1974	1970 and 1972	1968
41	41	42	41	39	36
42	42	43	42	40	37
--	43	44	43	41	38
--	44	45	44	42	39
43	45	46	45	43	40
--	46	47	46	44	41
--	47	48, 49	48, 49*	46, 47*	43, 44*
--	48	50	50	48	45
44	49	51	51	49	46
--	50	52	52	50	47
45	51	53	--	--	--
46	52	54	53	51	48
47	53	55	54	52	49
48	54	56	55	53	50*
49	55	57	56	54	51
50	56	58	--	--	--
51	57	59	57	55*	52*
52	58	62	61	59	56
53	59	63	62	60	--
54	60	64	63, 64, 67	61, 62, 65	57, 58, 61
55	61	65	65*	63*	59*
56	62	66	66	64	60
57	63	67	68	66	62
58	64	68	71*	69*	65*
59	65	69	78	76	69
60	66	70	79	77	70
61	67	71	80	78	71
62	68	72	81*	79*	--
63	69	73	63, 64, 67	61, 62, 65	57, 61
64	70	74	66	64	60
65	71	75	65*	63*	59*
66	--	--	--	--	--
67	72	78	81	79	--
68	73	79	68*	66*	62*
69	74	80	66	64	60
70	75	81	--	--	--
71	76	82	73*	71*	68*
72	77	7*	70*	68*	64*
--	--	--	76	74	--
--	--	--	77	75	--
--	--	--	82	80	72

<sup>1</sup>Base year 1986

\*Contains part of same information



# Industry Overview





## 1986 HIGHLIGHTS

Mills operating in Washington in 1986 totaled 394. Analysis of single-shift capacity and number of mills by type shows:

**Table 3**  
**Mills by Type**  
**and Single Shift Capacity**

<u>Type of mill</u>	<u>Number of mills</u>	<u>Single shift capacity</u>
Sawmills	117	11.2 MMbf
Log export	101	not applicable
Veneer & plywood	26	5.0 MMsf (3/8 " basis)
Pulp	20	12.6 m tons (daily)
Shake & shingle	117	9.9 m sq.
Post, pole & piling	13	40.1 MMbf (peeling-yearly)
Total		394

Clallam County led with 61 operations.

The 41 largest sawmills (Class A) had 75 percent of the total eight-hour shift sawmilling capacity. During 1986 the Class A sawmills consumed 74 percent of the logs processed and produced 76 percent of the lumber manufactured.

### Wood Consumption

0 5.9 billion board feet of roundwood logs were consumed by the industry. Sawmills accounted for nearly half the volume. Log export took over one-third. These two sectors account for 84 percent of the consumption.

0 18 million board feet (log scale) of peeler cores, cants, blocks, bolts and miscellaneous peeled products were consumed.

0 7.1 million tons of chips, sawdust and shavings were consumed by the pulp industry.

**Table 4**  
**Roundwood Use by Industry**

<u>Industry</u>	<u>Volume</u> (MMbf)	<u>Percent</u>
Sawmills	2,733	47
Log export	2,168	37
Veneer & plywood	429	7
Pulp	413	7
Shake & shingle	93	2
Post, pole & piling	<u>21</u>	<u>&lt;.5</u>
Total	5,857	100

Leading counties in roundwood use were:

Grays Harbor/Jefferson/Pacific* . .	882 MMbf
Cowlitz . . . . .	825 MMbf
Snohomish . . . . .	651 MMbf
Pierce . . . . .	628 MMbf

\*Combined to avoid disclosure.

- 90 percent of total wood used by the pulp sector was in the form of chips, sawdust, shavings, and waste paper.
- 92 percent of all log volume used was from sound logs.
- 46 percent of roundwood volume was Douglas fir; 32 percent hemlock; 6 percent ponderosa pine and 6 percent western redcedar.
- 3.2 percent of all log volume consumed was imported; 84 percent of this volume came from Oregon.
- 45 percent of log volume came from forest industry timberlands; 20 percent from national forests; 18 percent from state-managed lands.
- 68 percent of national forest log volume statewide came from combined harvests on the Gifford Pinchot, Mt. Baker-Snoqualmie, and Olympic National Forests; 31 percent from Gifford Pinchot; 22 percent from Mt. Baker-Snoqualmie, and 14 percent from Olympic.

## Residues

□ 5.7 million tons of wood and bark residues were generated. The sources by sector are shown below. Sawmills are the primary source.

**Table 5**  
**Wood and Bark**  
**Residue Production by Mill**  
**Type**

<u>Type of mill</u>	<u>Million tons</u>	<u>Percent</u>
Sawmills	4.6	81
Veneer & plywood	0.9	15
Shake & shingle	0.1	2
Other*	<u>0.1</u>	<u>2</u>
Total	5.7	100

\* Other includes log export and post, pole and piling.

□ 76 percent of residue was wood; 24 percent was bark. 98 percent of wood residues and 97 percent of the bark were used. Unused were 133,612 tons of wood and bark.

□ 47 percent of wood residue went for fuel; 31 percent to the pulp sector; 20 percent other uses; 2 percent was unused.

## THE TIMBER ECONOMY

The Washington timber economy continues to adapt to a changing economic climate. Although the number of processing operations has declined by about 10 percent from 1984 to 1986, log consumption is up 2 percent. Washington still remains one of the leading timber industry states, producing 11 percent of the nation's softwood lumber, 7 percent of the nation's softwood plywood, and providing 62 percent of the nation's softwood log exports.

The forest industry has become more efficient in terms of labor input. While log consumption rose, total employment in the forest industry (SIC 24 and 26) declined from 56.7 thousand in 1984 to 54.4 thousand in 1986. In the forest industry, however, the pulp and paper industry (SIC 26) increased employment from 16.1 thousand in 1984 to 16.8 thousand in 1986.

Washington's total timber harvest for 1986 was 6.5 billion board feet<sup>2</sup> (Figure 1). This is up 9 percent from 1985 and up 12 percent from 1984. The mill survey for 1986 shows log consumption at 5.9 billion board feet. This is about 10 percent lower than the harvest. This difference may be attributed to several factors. Nearly 2 million tons of chips went from roundwood chipping mills to the pulp mills. This volume was not included as roundwood in the mill survey. It converts to about one billion board feet Scribner. Other plausible contributing factors: logs being exported to other states and not being included in the survey process (only final consumers are surveyed), some mills were possibly missed in the survey, and possibly reported log consumption was lower than actual consumption.

The lumber, plywood and pulp information in Figure 1 is from the Washington Mill Survey series. Information for a ten-year period is shown.

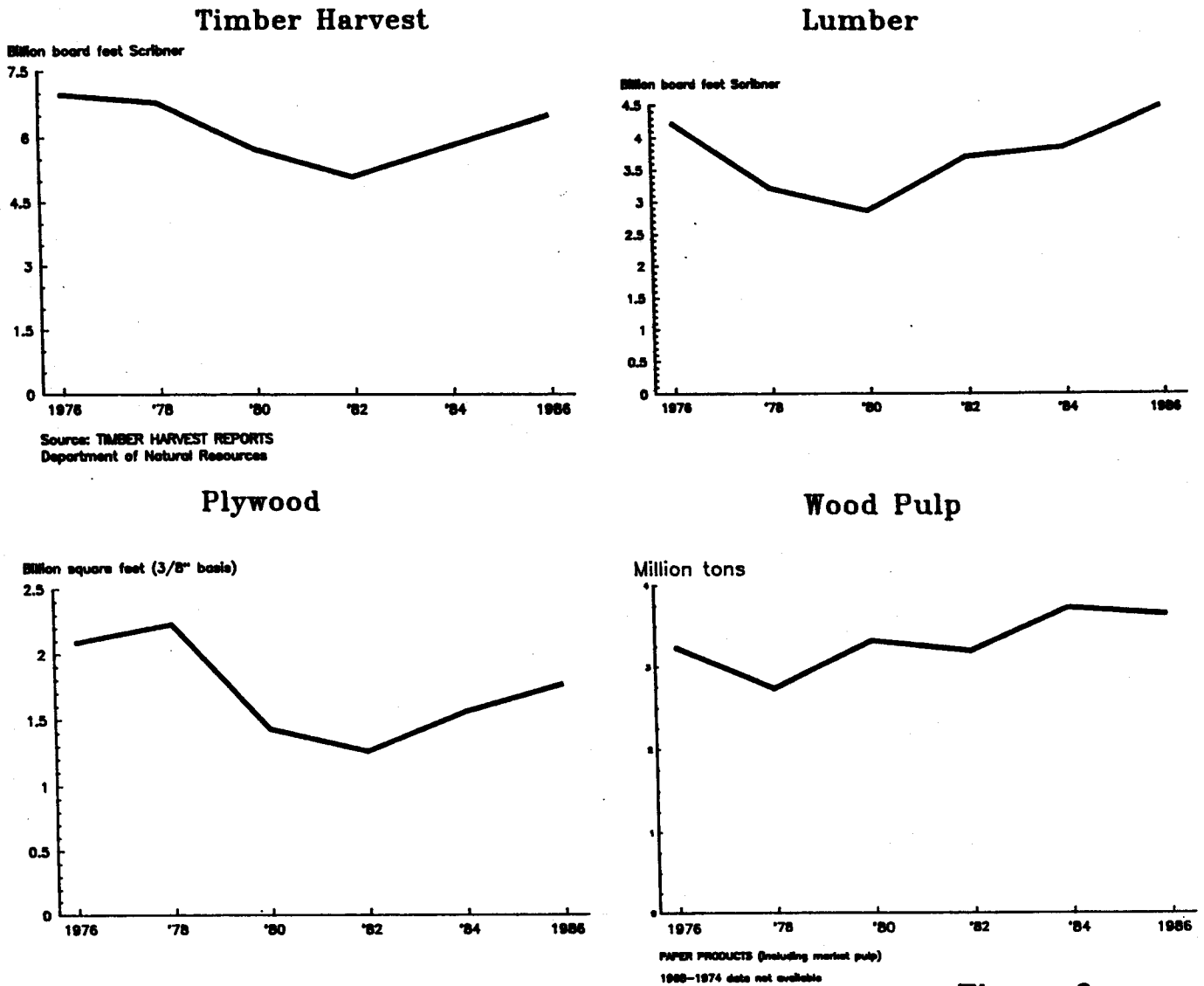
Total wood use by Washington forest industry sectors is shown in Figure 2. This information is from the Washington Mill Survey series and shows log consumption for five of the six sectors. The post, pole and piling sector is not shown due to graphics limitations. This sector only consumes about 20 million board feet (a fraction of 1 percent of all roundwood consumed). It is, however, a sector which produces high value specialty products and is a valuable part of the Washington forest products industry.

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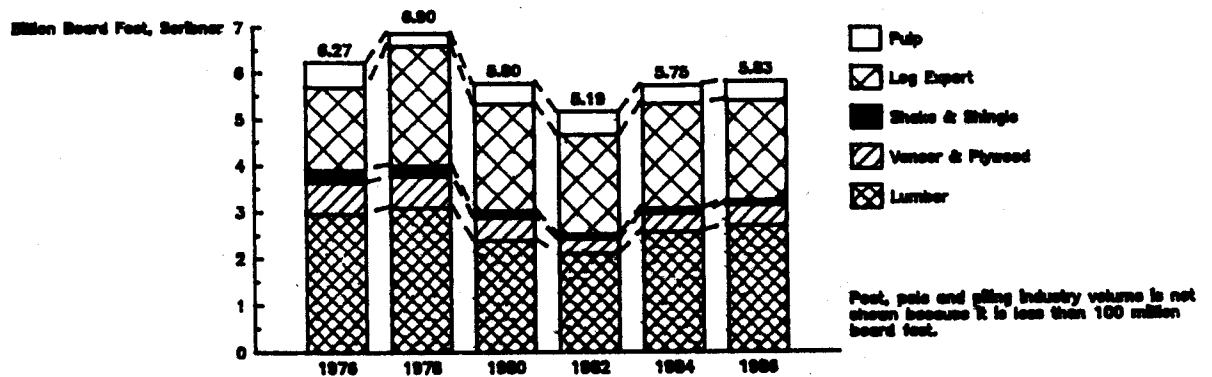
<sup>1</sup>Employment data is reported to the Employment Security Department on quarterly tax reports by employers subject to the Washington Employment Security Act. Timber industry employment (SIC 24 and 26) does not include some segments, such as longshore workers and truckers, not entirely attributable to the timber industry.

<sup>2</sup>Source: 1986 Washington timber harvest. Dept. of Nat. Res. Olympia, Wash.

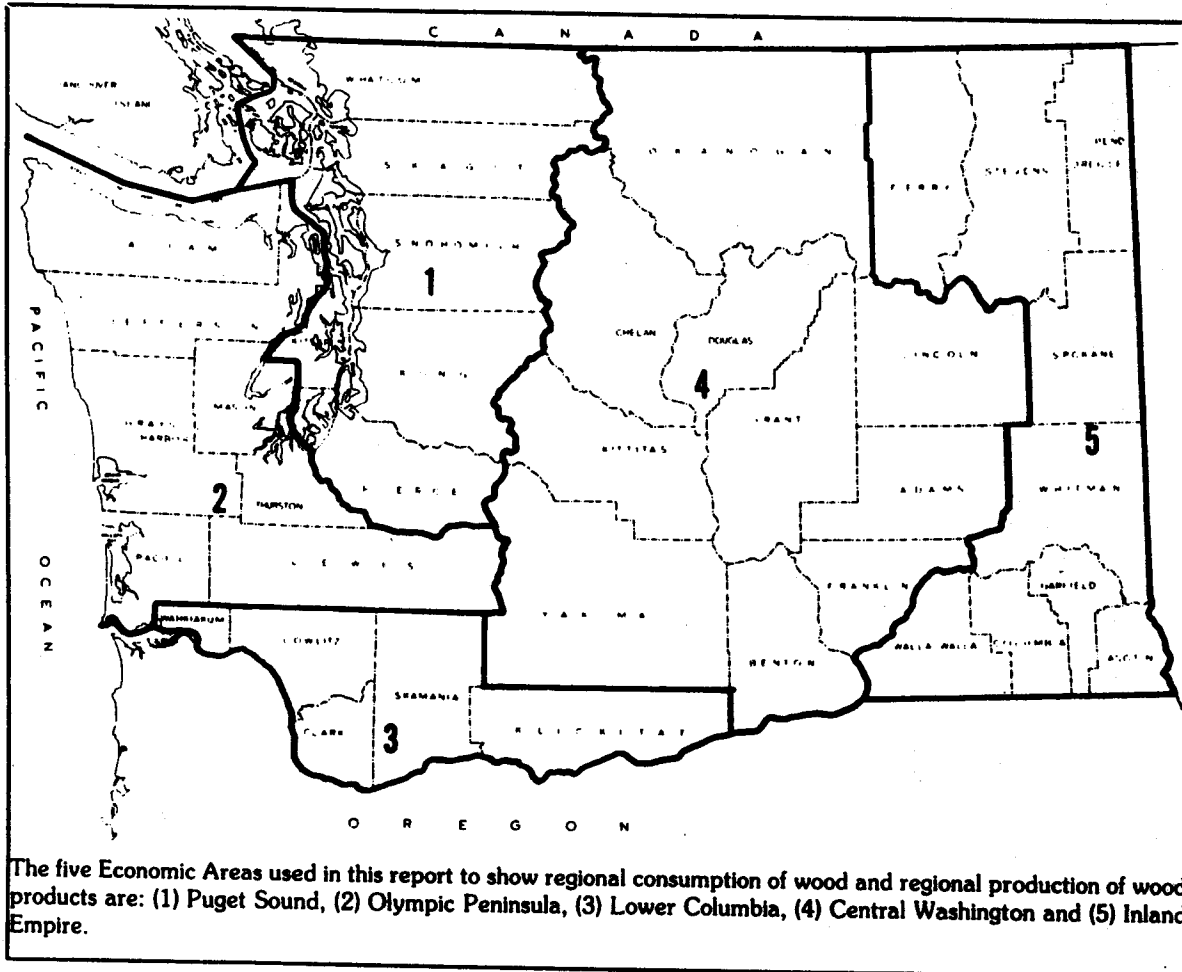
**Figure 1**  
**Output of Major Timber Products for Washington**



**Figure 2**  
**Washington Log Consumption**  
**by Major Industries**



**Figure 3**  
**The Five Economic Areas**  
**Encompassing 39 Counties**



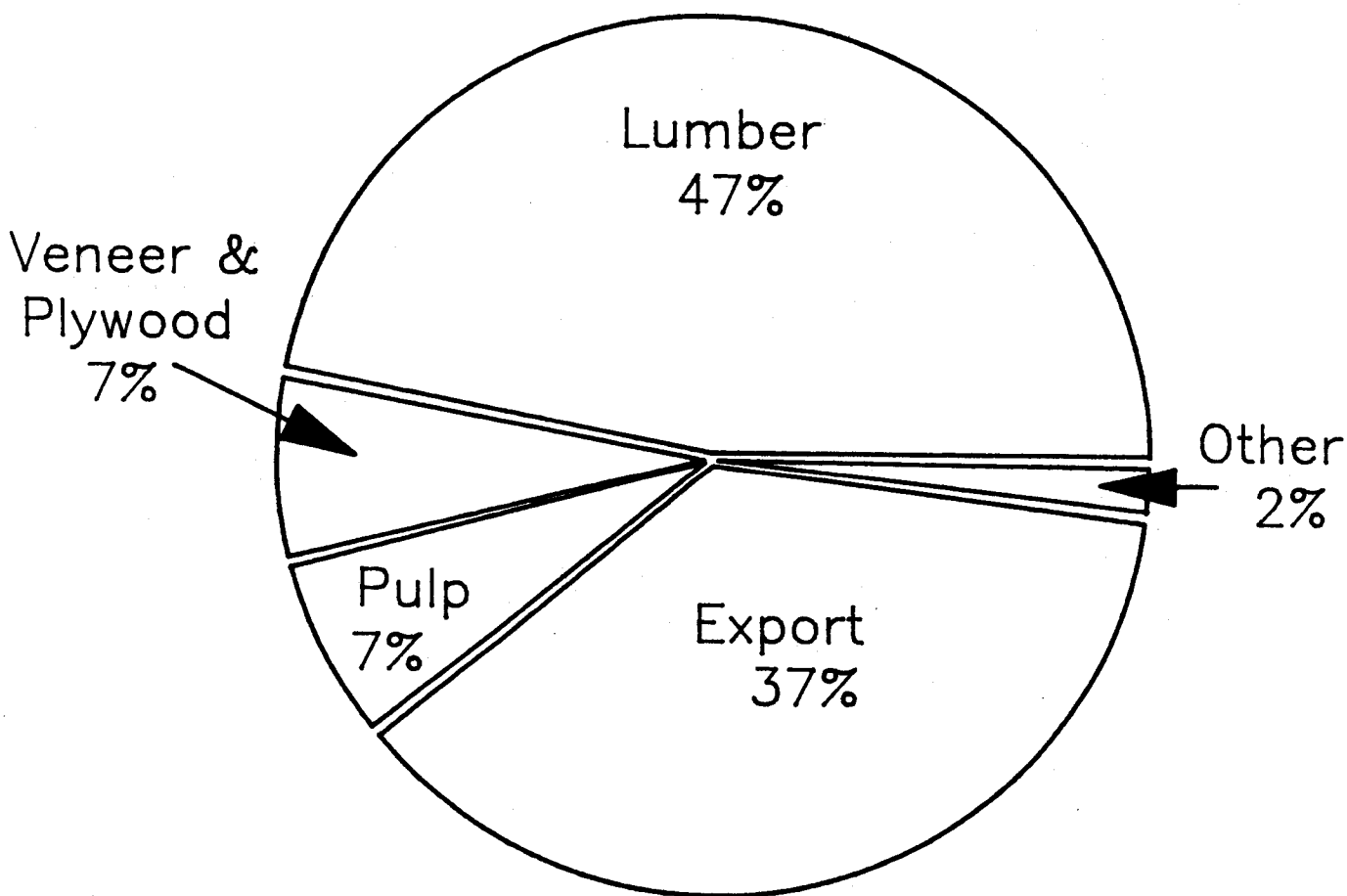
**INDUSTRY CHARACTERISTICS**

The industry is divided into six segments in this report: lumber; veneer and plywood; pulp; log export; shake and shingle; and post, pole 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 operations were combined with others. Economic areas are illustrated in Figure 3. In all cases data were grouped to maximize the identity of geographic origin. Where possible, these groupings have remained the same as those used in previous surveys to allow comparison. Comparisons between sectors and economic areas can be obtained by using Tables D-1 to D-10 in Appendix D.

### Wood Consumption

During 1986, Washington's primary forest products industries consumed 5.9 billion board feet of logs, 18 million board feet of other wood and 7 million tons of chips and wood residue. Sound logs comprised 92 percent of the total roundwood: sawmills consumed 48 percent; log export accounted for 40 percent. Utility and cull logs accounted for 8 percent of total roundwood with the pulp industry consuming 65 percent of these materials. Figure 4 illustrates the total log consumption by industry sector.

**Figure 4**  
**Log Consumption by Type of Industry**



The 7 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 about 3.5 billion board feet of roundwood logs. Most of the chips were by-products of manufacturing operations. The forest products industries relied on several ownerships for log supplies. Yet over 45 percent of industry consumption (including log export) was met from a forest industry owning 26 percent of the commercial forest lands in the state. Industry in 1984 provided 55 percent of the consumption volume.

**Table 6**  
**Log Supply by Owner Source**

<u>Ownership</u>	<u>Log supply</u> (percent)
State	18
National forest	20
Bureau of Land Management	*
Other public	4
<hr/>	<hr/>
Total Public	42
Forest industry:	
Own wood supply	18
Other wood supply	27
Farmer & misc. private	13
<hr/>	<hr/>
Total private	58
<hr/>	<hr/>
All owners	100

\*Less than 0.5 percent

**Table 7**  
**Log Flows Measured From National Forests:**

<u>National Forest</u>	<u>Log flow</u> (Percent)
Gifford Pinchot	31
Mt. Baker-Snoqualmie	23
Olympic	14
Wenatchee	11
Colville	8
Other	13
<hr/>	<hr/>
All National Forests	100



Dependence for timber supply by ownership class is determined by totaling individual mills obtaining more than two-thirds of their logs from a single ownership class. Percents are taken as a share of 394 mills in the state.

**Table 8**  
**Dependence For Timber Supply**

<u>Ownership</u>	<u>Mills over</u> <u>two-thirds dependent</u>	
	<u>(number)</u>	<u>(percent)</u>
State	40	10.2
National forest	47	11.9
Bureau of Land Management	--	--
Other public	5	1.3
<hr/>	<hr/>	<hr/>
Total public	92	23.4
Forest industry:		
Own wood supply	17	4.3
Other wood supply	71	18.0
Farmer & misc. private	36	9.1
<hr/>	<hr/>	<hr/>
Total private	124	31.4
<hr/>	<hr/>	<hr/>
All owners	216	54.8

At the state level, Douglas fir (44 percent) and hemlock<sup>3</sup> (32 percent) were the dominate species consumed by the industry during 1986. In Western Washington the three major species (in order of importance) were Douglas fir, hemlock and western redcedar. 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 post, pole and piling industry is 54 percent dependent and the veneer and plywood industry is 68 percent dependent on Douglas fir, the pulp industry's consumption of roundwood is 64 percent dependent on hemlock. The shake and shingle industry is almost exclusively dependent on western redcedar.

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<sup>3</sup>Western hemlock and mountain hemlock have been combined under the generic designation of hemlock in this report.

Washington supplied 97 percent of the industry's log consumption. Oregon contributed 2.7 percent, with most (88 percent of this volume) consumed in the Lower Columbia area.<sup>4</sup>

## RESIDUES

### Production

The sawmill; veneer and plywood; shake and shingle; post, pole and piling; and export segments of the industry generated 5.7 million tons of wood and bark residues in 1986. Of this amount, the sawmill, and veneer and plywood sectors provided 96 percent of the total. Of their share, 98 percent was used.

Of all residues produced, 98 percent were used. Fuel use accounted for nearly 2.8 million tons (52 percent) of all residues while the pulp industry took 1.4 million tons (24 percent) of all residues.

### Use

A significant achievement of the forest products industry is the relatively high use of wood residues.

Volume use increased from 1984 to 1986.

**Table 9**  
**Wood Residue Use by Industry**

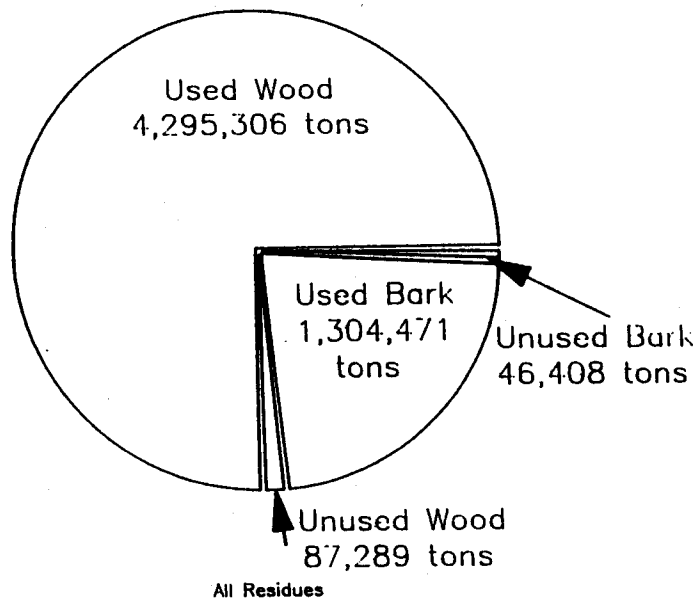
<u>Wood residue use</u>	<u>Volume (Thousand tons)</u>	<u>Percent</u>
Pulp & board	1,384	24
Fuel	3,008	53
Other uses	1,208	21
Unused	134	2
<hr/>	<hr/>	<hr/>
All wood residue	5,734	100

The relationship between wood and bark residues and the use relationship is shown graphically in Figure 5.

<sup>4</sup> Although Klickitat County lies east of the Cascades, it is included in the Lower Columbia Economic Area and is considered part of Western Washington in this report.

**Figure 5**  
**Relative and Absolute Residue Volume**

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**HARDWOOD INDUSTRY**

Hardwood processing is another segment of the Washington wood products industry. It accounts for 4 percent of total log consumption. The hardwood species used by this industry include red alder, bigleaf maple and black cottonwood. These species are used by sawmills, veneer and plywood mills, and pulp mills. The finished products are shipped throughout the United States for use in furniture, other specialty products and pulp.

**MILLS USING HARDWOOD**

In 1986, 16 sawmills, 4 veneer and plywood operations, and 5 pulp mills used hardwoods. Only nine sawmills and one veneer and plywood mill used hardwoods for 90 percent-plus of their log consumption. Mills using hardwoods, with one exception, were located in Western Washington.

**Table 10**  
**Number of Mills and**  
**Dependency on Hardwood**

County	Sawmills		Veneer & Plywood		Pulp	
	Under 90%	90% +	Under 90%	90% +	Under 90%	90% +
Clallam	1	--	--	--	--	--
Clark	1	--	--	--	1	--
Cowlitz	--	2	--	--	2	--
Grays Harbor	--	--	--	--	1	--
King	1	--	--	--	--	--
Lewis	1	2	--	--	--	--
Mason	--	1	--	--	--	--
Okanogan	--	--	1	--	--	--
Pierce	1	--	1	--	1	--
Skagit	--	1	--	--	--	--
Snohomish	1	2	--	1	1	--
Walla Walla	--	1	--	--	--	--
Whatcom	1	--	1	--	--	--
<b>Total</b>	<b>7</b>	<b>9</b>	<b>3</b>	<b>1</b>	<b>5</b>	<b>--</b>

**WOOD CONSUMPTION**

Total hardwood log consumption was 240 million board feet in 1986 (Table D-8). Of this volume, 238 million board feet were used in milling operations; 2 million board feet went for log export. Total hardwood consumption in 1986 is slightly below 1984 consumption. In addition, 185,356 bone dry tons of hardwood chips from roundwood chipping plants were consumed by the pulp industry.

Sawmills were the primary consumer using 202 million board feet of hardwoods in 1986. This was over 7 percent of sawmills all-species consumption and was a 32 percent increase over 1984. Of this amount, 91 percent of hardwood volume consumed was by those sawmills 90 percent-plus dependent on hardwoods. Seven of these nine mills were size-class D mills. These size-class D mills consumed about 60 percent of the hardwood volume (Table D-25).

The veneer and plywood industry consumed 14.8 million board feet of hardwoods or 3.5 percent of their total log consumption (Table D-8). This was nearly 50 percent more hardwood volume than consumed in 1984.

The pulp industry used 21 million board feet of hardwood logs in 1986 (nearly 5 percent of their all-species log consumption). In addition, this industry consumed 185,355 bone dry tons of hardwood chips from roundwood chipping plants (Table D-52).

**Table 11**  
**Hardwood Consumption**

<u>Industry</u>	<u>Volume</u> (MMbf)	<u>Hardwood</u> <u>consumption</u> (Percent)
Sawmills	202 **	84
Pulp	21	9
Veneer & plywood	15	6
<u>Export</u>	<u>2</u>	<u>1</u>
Total industry	240	100

## HARDWOOD SUPPLY

Lewis, Snohomish and Cowlitz counties accounted for nearly half the hardwood log volume supplied to sawmills 90 percent-plus dependent upon hardwoods in 1986. These mills consumed 185 million board feet in 1986. The hardwood volume is provided primarily in Western Washington counties; over 10 percent comes from out of state.

**Table 12**  
**Hardwood Volume by County**

<u>County of origin</u>	<u>Volume</u> (MMbf)	<u>Percent</u>
Lewis	39.2	21
Snohomish	25.7	14
Cowlitz	23.1	13
Skagit	20.9	11
Pacific	20.1	11
King	9.1	5
Skamania	7.2	4
Wahkiakum	4.7	3
Clark	4.2	2
Clallam	3.2	2
Whatcom	1.4	1
Others	2.2	1
Out of state	<u>23.7</u>	<u>13</u>
Total	184.7	100

## OWNERSHIP

The hardwoods consumed by sawmills 90 percent-plus dependent on hardwoods came largely from private ownerships. Forest industry lands were the source for over two-thirds of the roundwood volume used.

**Table 13**  
**Sawmill Hardwood Log Consumption:**  
**Mills 90%+ Dependent on Hardwoods**

<u>Ownership</u>	<u>Volume</u> <u>MMbf</u> (Scribner)	<u>Log</u> <u>supply</u> (Percent)
State	24.2	13
National forest	--	--
<u>Other public</u>	<u>2.5</u>	<u>1</u>
Total public	26.7	14
Forest industry		
Own wood supply	25.0	14
Other wood supply	106.5	58
<u>Farmer &amp; misc. private</u>	<u>26.5</u>	<u>14</u>
Total private	<u>158.0</u>	<u>86</u>
All owners	184.7	100





# 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 post, pole 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:

Board foot lumber tally is used for lumber production.

Square feet 3/8-inch basis is used for plywood and veneer production.

Square (10' x 10') area coverage is used for shake and shingle production.

Board foot Scribner is used for log export shipments and for post, pole and piling production.

Bolt, 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)**

2.5 square feet = 1 board foot, Scribner  
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.)\*

**Post, Pole and Piling**

1 cubic foot = 6 board feet

**All Industries**

211.9 board feet = 1 cubic meter

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\*(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<sup>†</sup>

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

<u>Plywood residue</u>	<u>Solid volume</u>		<u>Dry weight</u>	<u>Residue type</u>
	(Cubic feet††)		(Tons)	(Percent)
<b>Wood residue</b>				
Log trim	3.4	0.048	4.2	} Coarse
Cores	6.3	0.088	7.8	
Veneer clippings, roundup & spur trim	19.3	0.270	23.7	
Dry trim & layup loss	6.3	0.088	7.8	} Medium
Sander dust	<u>1.6</u>	<u>0.022</u>	<u>1.9</u>	} Fine
<b>Total wood residue</b>	<u>36.9</u>	<u>0.516</u>	<u>45.4</u>	
Bark	<u>8.8</u>	<u>0.132</u>	<u>11.6</u>	} Bark
<b>All residue</b>	<u>45.7</u>	<u>0.648</u>	<u>57.0</u>	
<b>Plywood</b>	<u>34.9</u>	<u>0.489</u>	<u>43.0</u>	
<b>Whole log</b>	<u>80.6</u>	<u>1.137</u>	<u>100.0</u>	

†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.

††Green Volume.

### Softwood Plywood Residues<sup>†</sup>

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

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

†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.

††Green Volume.

## Shingle Mill Residues<sup>†</sup>

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

	<u>Solid volume</u>		<u>Dry weight</u>
	(Cubic Feet)	(Percent)	(Tons)
<b>Shingles:</b>			
Coarse	23	13.7	0.22
Fine	78	46.8	0.75
Bark	19	11.5	0.28
<b>Shakes:</b>			
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<sup>†</sup>

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

<u>Item</u>	<u>200 cu. ft.</u> (Units)	<u>Dry weight</u> (Tons)	<u>Residue type</u>
<b>Wood residue</b>			
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 and SAS programs. There are two ANSI COBOL programs for each ANSI COBOL table. One selects the data from the master file; the other program summarized 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:

Warnier Diagram for each ANSI COBOL program

Sample input documents

Keypunch instructions

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

Report layouts of each output report

Sample output reports

Source Program listings

Job Control Language listings for execution of system



# Appendix D



**Table D-1**  
**Number of Mills by Timber Industry**

Economic area and county	Industry						
	All industries	Lumber	Veneer and plywood	Pulp <sup>1</sup>	Shake and shingle	Export <sup>2</sup>	Post, pole and piling
<b>Puget Sound</b>							
Island	1	1	--	--	--	--	--
King	10	8	1	--	--	--	1
Kitsap	1	1	--	--	--	--	--
Pierce	28	5	3	2	3	14	1
San Juan	1	1	--	--	--	--	--
Skagit	20	3	1	--	14	2	--
Snohomish	52	18	1	1	12	19	1
Whatcom	9	3	1	2	2	--	1
<b>Total</b>	<b>122</b>	<b>40</b>	<b>7</b>	<b>5</b>	<b>31</b>	<b>35</b>	<b>4</b>
<b>Olympic Peninsula</b>							
Clallam	61	8	2	2	30	18	1
Grays Harbor	60	7	2	2	29	20	--
Jefferson	4	2	--	1	1	--	--
Lewis	21	8	2	--	10	--	1
Mason	6	4	1	--	--	--	1
Pacific	4	1	--	--	3	--	--
Thurston	18	3	3	--	--	10	2
<b>Total</b>	<b>174</b>	<b>33</b>	<b>10</b>	<b>5</b>	<b>73</b>	<b>48</b>	<b>5</b>
<b>Lower Columbia</b>							
Clark	11	4	1	2	3	--	1
Cowlitz	35	5	1	5	6	18	--
Klickitat	5	4	1	--	--	--	--
Skamania	2	1	1	--	--	--	--
Wahkiakum	3	--	--	--	3	--	--
<b>Total</b>	<b>56</b>	<b>14</b>	<b>4</b>	<b>7</b>	<b>12</b>	<b>18</b>	<b>1</b>
<b>Central Washington</b>							
Adams	--	--	--	--	--	--	--
Benton	--	--	--	--	--	--	--
Chelan	1	1	--	--	--	--	--
Douglas	--	--	--	--	--	--	--
Franklin	--	--	--	--	--	--	--
Grant	--	--	--	--	--	--	--
Kittitas	1	--	1	--	--	--	--
Lincoln	--	--	--	--	--	--	--
Okanogan	6	4	2	--	--	--	--
Yakima	5	4	1	--	--	--	--
<b>Total</b>	<b>13</b>	<b>9</b>	<b>4</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>
<b>Inland Empire</b>							
Asotin	2	2	--	--	--	--	--
Columbia	--	--	--	--	--	--	--
Ferry	3	3	--	--	--	--	--
Garfield	--	--	--	--	--	--	--
Pend Oreille	--	--	--	--	--	--	--
Spokane	3	2	--	1	--	--	--
Stevens	17	12	1	--	1	--	3
Walla Walla	4	2	--	2	--	--	--
Whitman	--	--	--	--	--	--	--
<b>Total</b>	<b>29</b>	<b>21</b>	<b>1</b>	<b>3</b>	<b>1</b>	<b>--</b>	<b>3</b>
<b>Total, State</b>	<b>394</b>	<b>117</b>	<b>26</b>	<b>20</b>	<b>117</b>	<b>101</b>	<b>13</b>

<sup>1</sup>Each pulping process at a mulitplant location is counted as an individual mill.

<sup>2</sup>Represents the number of identifiable operations involved in the export trade.

## Table D-2 Primary Wood Consumption

Economic area and industry	Roundwood				
	All roundwood	Sound logs	Utility logs	Other <sup>1</sup>	Residue <sup>2</sup>
	--Thousand board feet, Scribner log rule--				Bone dry tons
<b>Puget Sound</b>					
Lumber	860,579	856,905	3,674	2,098	--
Veneer & plywood	77,935	70,002	7,933	--	--
Pulp	76,941	712	76,229	--	1,529,976
Shake & shingle	26,707	22,757	3,950	3,568	--
Export	690,025	690,025	--	--	--
Post, pole & piling	1,646	1,642	4	--	--
<b>Total</b>	<b>1,733,833</b>	<b>1,642,043</b>	<b>91,790</b>	<b>5,666</b>	<b>1,529,976</b>
<b>Olympic Peninsula</b>					
Lumber	814,599	711,576	103,023	--	--
Veneer & plywood	83,246	74,803	8,443	--	--
Pulp	247,111	74,031	173,080	--	1,205,945
Shake & shingle	57,661	56,858	803	11,481	--
Export	928,755	927,788	967	--	--
Post, pole & piling <sup>3</sup>	10,417	10,417	--	--	--
<b>Total</b>	<b>2,141,789</b>	<b>1,855,493</b>	<b>286,316</b>	<b>11,481</b>	<b>1,205,945</b>
<b>Lower Columbia</b>					
Lumber	396,011	381,828	14,183	--	--
Veneer & plywood	75,502	67,614	7,888	--	--
Pulp <sup>4</sup>	88,636	24,336	64,300	--	4,324,178
Shake & shingle <sup>4</sup>	8,870	7,167	1,703	859	--
Export	549,156	549,156	--	--	--
Post, pole & piling <sup>3</sup>	--	--	--	--	--
<b>Total</b>	<b>1,118,175</b>	<b>1,030,101</b>	<b>88,074</b>	<b>859</b>	<b>4,324,178</b>
<b>Central Washington</b>					
Lumber	295,018	290,216	4,802	--	--
Veneer & plywood <sup>5</sup>	192,767	142,808	--	--	--
Pulp	--	--	--	--	--
Shake & shingle	--	--	--	--	--
Export	--	--	--	--	--
Post, pole & piling	--	--	--	--	--
<b>Total</b>	<b>487,785</b>	<b>433,024</b>	<b>4,802</b>	<b>--</b>	<b>--</b>
<b>Inland Empire</b>					
Lumber	367,167	362,073	5,094	--	--
Veneer & plywood <sup>5</sup>	--	--	--	--	--
Pulp <sup>4</sup>	--	--	--	--	--
Shake & shingle <sup>4</sup>	--	--	--	--	--
Export	--	--	--	--	--
Post, pole & piling	8,700	260	8,440	--	--
<b>Total</b>	<b>375,867</b>	<b>362,333</b>	<b>13,534</b>	<b>--</b>	<b>--</b>
<b>Total, State</b>					
Lumber	2,733,374	2,602,598	130,776	2,098	--
Veneer & plywood	429,450	405,186	24,264	--	--
Pulp	412,688	99,079	313,609	--	7,060,099
Shake & shingle	93,238	86,782	6,456	15,908	--
Export	2,167,936	2,166,969	967	--	--
Post, pole & piling	20,763	12,319	8,444	--	--
<b>Total</b>	<b>5,857,449</b>	<b>5,372,933</b>	<b>484,516</b>	<b>18,006</b>	<b>7,060,099</b>

<sup>1</sup>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 post, pole and piling mills.

<sup>2</sup>Includes residues from the sawmill, veneer and plywood, and shake and shingle industries plus chips from roundwood chipping plants, and wastepaper.

<sup>3</sup>Olympic Peninsula and Lower Columbia combined to avoid disclosure.

<sup>4</sup>Lower Columbia and Inland Empire combined to avoid disclosure.

<sup>5</sup>Central Washington and Inland Empire combined to avoid disclosure.



**Table D-3**  
**Log Use by Industry and Origin**  
**(Thousand Board Feet, Scribner Log Rule)**

Economic area and industry	Origin					
	All	Washington	Oregon	Idaho	British Columbia	Other
<b>Puget Sound</b>						
Lumber	860,579	858,046	--	--	2,533	--
Veneer & plywood	77,935	77,935	--	--	--	--
Pulp	76,941	74,097	--	--	2,844	--
Shake & shingle	26,707	26,530	--	--	177	--
Export	690,025	683,655	--	--	6,370	--
Post, pole & piling	1,646	1,630	--	--	16	--
<b>Total</b>	<b>1,733,833</b>	<b>1,721,893</b>	<b>--</b>	<b>--</b>	<b>11,940</b>	<b>--</b>
<b>Olympic Peninsula</b>						
Lumber	814,599	814,599	--	--	--	--
Veneer & plywood	83,246	82,217	1,029	--	--	--
Pulp	247,111	245,967	1,144	--	--	--
Shake & shingle	57,661	57,661	--	--	--	--
Export	928,755	928,755	--	--	--	--
Post, pole & piling <sup>1</sup>	10,417	9,407	1,005	--	5	--
<b>Total</b>	<b>2,141,789</b>	<b>2,138,606</b>	<b>3,178</b>	<b>--</b>	<b>5</b>	<b>--</b>
<b>Lower Columbia</b>						
Lumber	396,011	356,898	39,113	--	--	--
Veneer & plywood	75,502	57,025	17,527	950	--	--
Pulp <sup>2</sup>	88,636	57,101	31,535	--	--	--
Shake & shingle <sup>2</sup>	8,870	7,870	640	360	--	--
Export	549,156	497,736	51,260	160	--	--
Post, pole & piling <sup>1</sup>	--	--	--	--	--	--
<b>Total</b>	<b>1,118,175</b>	<b>976,630</b>	<b>140,075</b>	<b>1,470</b>	<b>--</b>	<b>--</b>
<b>Central Washington</b>						
Lumber	295,018	294,921	--	--	97	--
Veneer & plywood <sup>3</sup>	192,767	191,267	--	--	1,500	--
Pulp	--	--	--	--	--	--
Shake & shingle	--	--	--	--	--	--
Export	--	--	--	--	--	--
Post, pole & piling	--	--	--	--	--	--
<b>Total</b>	<b>487,785</b>	<b>486,188</b>	<b>--</b>	<b>--</b>	<b>1,597</b>	<b>--</b>
<b>Inland Empire</b>						
Lumber	367,167	337,465	15,351	9,700	4,651	--
Veneer & plywood <sup>3</sup>	--	--	--	--	--	--
Pulp <sup>2</sup>	--	--	--	--	--	--
Shake & shingle <sup>2</sup>	--	--	--	--	--	--
Export	--	--	--	--	--	--
Post, pole & piling	8,700	8,676	--	--	24	--
<b>Total</b>	<b>375,867</b>	<b>346,141</b>	<b>15,351</b>	<b>9,700</b>	<b>4,675</b>	<b>--</b>
<b>Total, State</b>						
Lumber	2,733,374	2,661,929	54,464	9,700	7,281	--
Veneer & plywood	429,450	408,444	18,556	950	1,500	--
Pulp	412,688	377,165	32,679	--	2,844	--
Shake & shingle	93,238	92,061	640	360	177	--
Export	2,167,936	2,110,146	51,260	160	6,370	--
Post, pole & piling	20,763	19,713	1,005	--	45	--
<b>Total</b>	<b>5,857,449</b>	<b>5,669,458</b>	<b>158,604</b>	<b>11,170</b>	<b>18,217</b>	<b>--</b>

<sup>1</sup>Olympic Peninsula and Lower Columbia combined to avoid disclosure.

<sup>2</sup>Lower Columbia and Inland Empire combined to avoid disclosure.

<sup>3</sup>Central Washington and Inland Empire combined to avoid disclosure.

# SUMMARY 1986

**Table D-4**  
**Log Consumption by County and Harvest Origin by County**  
**(Thousand Board Feet, Scribner Log Rule)**

Economic area and county of use	Economic area and county of origin							
	Total	Puget Sound						
		Island and San Juan <sup>1</sup>	King	Kitsap	Pierce	Skagit	Snohomish	Whatcom
<b>Puget Sound</b>								
Island/Kitsap/San Juan <sup>1</sup>	90,640	5,640	--	23,800	--	--	--	--
King	156,803	--	150,345	--	3,405	--	1,351	--
Pierce	627,778	--	97,292	40,443	175,274	--	47,881	--
Skagit	83,406	2,518	1,206	--	--	40,042	16,907	19,407
Snohomish	650,990	430	66,510	910	22,266	205,795	233,604	65,824
Whatcom	124,216	715	3,555	--	--	50,155	11,990	48,949
<b>Total</b>	<b>1,733,833</b>	<b>9,303</b>	<b>318,908</b>	<b>65,153</b>	<b>200,945</b>	<b>295,992</b>	<b>311,733</b>	<b>134,180</b>
<b>Olympic Peninsula</b>								
Clallam	594,767	--	3,368	--	--	--	5,048	--
Grays Harbor/Jefferson Pacific <sup>1</sup>	881,591	4,326	--	324	1,100	--	--	--
Lewis/Mason <sup>1</sup>	506,158	--	5,440	273	9,900	--	--	--
Thurston	158,760	--	--	1,519	17,362	173	173	173
<b>Total</b>	<b>2,141,276</b>	<b>4,326</b>	<b>8,808</b>	<b>2,116</b>	<b>28,362</b>	<b>173</b>	<b>5,221</b>	<b>173</b>
<b>Lower Columbia</b>								
Clark	119,288	--	--	--	--	--	--	--
Cowlitz	824,801	--	--	--	--	--	--	--
Klickitat/Skamania <sup>1</sup>	172,399	--	--	--	--	--	--	--
Wahkiakum	2,200	--	--	--	--	--	--	--
<b>Total</b>	<b>1,118,688</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>
<b>Central Washington</b>								
Chelan/Kittitas/ Okanogan <sup>1</sup>	229,548	--	2,550	--	5,100	--	3,825	--
Yakima	208,278	--	--	--	--	--	--	--
<b>Total</b>	<b>437,826</b>	<b>--</b>	<b>2,550</b>	<b>--</b>	<b>5,100</b>	<b>--</b>	<b>3,825</b>	<b>--</b>
<b>Inland Empire</b>								
Asotin/Walla Walla <sup>1</sup>	62,050	--	--	--	--	--	--	--
Ferry	65,320	--	--	--	--	--	--	--
Spokane/Stevens <sup>1</sup>	298,456	--	--	--	--	--	--	--
<b>Total</b>	<b>425,826</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>
<b>Total, State</b>	<b>5,857,449</b>	<b>13,629</b>	<b>330,266</b>	<b>67,269</b>	<b>234,407</b>	<b>296,165</b>	<b>320,779</b>	<b>134,353</b>

<sup>1</sup>Combined to avoid disclosure.

**Table D-4 (Continued)**  
**Log Consumption by County and Harvest Origin by County**  
**(Thousand Board Feet, Scribner Log Rule)**

Economic area and county of origin											
Olympic Peninsula							Lower Columbia				
Clallam	Grays Harbor	Jefferson	Lewis	Mason	Pacific	Thurston	Clark	Cowlitz	Klickitat	Skamania	Wahkiakum
5,950	--	38,250	--	17,000	--	--	--	--	--	--	--
851	--	--	--	--	--	--	--	--	--	--	--
17,136	--	31,520	92,187	36,329	--	59,734	--	--	--	--	--
155	25	310	--	--	--	--	--	--	--	--	--
8,336	--	4,319	1,839	3,425	--	--	--	--	--	--	--
3,147	--	2,861	--	--	--	--	--	--	--	--	--
35,575	25	77,260	94,026	56,754	--	59,734	--	--	--	--	--
431,599	5,135	146,043	200	3,374	--	--	--	--	--	--	--
21,510	543,934	141,140	28,485	5,151	131,982	202	--	1,016	--	--	1,277
1,120	20,853	1,680	295,203	125,823	6,300	3,370	--	6,052	--	29,115	--
10	14,409	900	40,128	10,612	--	70,338	--	2,158	--	--	--
454,239	584,331	289,763	364,016	144,960	138,282	73,910	--	9,226	--	29,115	1,277
--	--	--	26,198	--	3,561	--	10,058	13,465	--	21,279	6,603
--	360	--	115,652	--	8,166	--	49,588	399,574	650	129,417	32,118
--	--	--	--	--	--	--	--	--	65,905	61,832	--
--	--	--	--	--	400	--	--	--	--	--	1,800
--	360	--	141,850	--	12,127	--	59,646	413,039	66,555	212,528	40,521
4,080	--	--	5,610	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	8,846	--	--
4,080	--	--	5,610	--	--	--	--	--	8,846	--	--
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--
493,894	584,716	367,023	605,502	201,714	150,409	133,644	59,646	422,265	75,401	241,643	41,798

**SUMMARY 1986**

**Table D-4 (Continued)  
Log Consumption by County and Harvest Origin by County  
(Thousand Board Feet, Scribner Log Rule)**

Economic area and county of use	Economic area and county of origin									
	Central Washington									
	Adams	Benton	Chelan	Douglas	Franklin	Grant	Kittitas	Lincoln	Okanogan	Yakima
<b>Puget Sound</b>										
Island/Kitsap/San Juan <sup>1</sup>	--	--	--	--	--	--	--	--	--	--
King	--	--	--	--	--	--	851	--	--	--
Pierce	--	--	--	--	--	--	29,464	--	--	--
Skagit	--	--	--	--	--	--	--	--	--	--
Snohomish	--	--	5,450	--	--	--	--	--	2,500	--
Whatcom	--	--	--	--	--	--	24,040	--	--	--
<b>Total</b>	--	--	5,450	--	--	--	54,355	--	2,500	--
<b>Olympic Peninsula</b>										
Clallam	--	--	--	--	--	--	--	--	--	--
Grays Harbor/Jefferson	--	--	--	--	--	--	--	--	--	--
Pacific <sup>1</sup>	--	--	--	--	--	--	--	--	--	--
Lewis/Mason <sup>1</sup>	--	--	--	--	--	--	--	--	--	--
Thurston	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	--	--	--	--	--	--	--	--	--	--
<b>Lower Columbia</b>										
Clark	--	--	--	--	--	--	--	--	--	--
Cowlitz	--	--	--	--	--	--	--	--	--	--
Klickitat/Skamania <sup>1</sup>	--	--	--	--	--	--	--	--	--	--
Wahkiakum	--	--	--	--	--	--	--	--	--	30,312
<b>Total</b>	--	--	--	--	--	--	--	--	--	30,312
<b>Central Washington</b>										
Chelan/Kittitas/ Okanogan <sup>1</sup>	--	--	4,198	--	--	--	29,921	--	159,151	--
Yakima	--	--	--	--	--	--	66,870	--	--	132,562
<b>Total</b>	--	--	4,198	--	--	--	96,791	--	159,151	132,562
<b>Inland Empire</b>										
Asotin/Walla Walla <sup>1</sup>	--	3	--	--	2	--	--	--	--	--
Ferry	--	--	--	--	--	--	--	--	3,490	--
Spokane/Stevens <sup>1</sup>	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	--	3	--	--	2	--	--	--	3,490	--
<b>Total, State</b>	--	3	9,648	--	2	--	151,146	--	165,141	162,874

<sup>1</sup> Combined to avoid disclosure.

**Table D-4 (Continued)**  
**Log Consumption by County and Harvest Origin by County**  
**(Thousand Board Feet, Scribner Log Rule)**

Economic area and county of origin									
Inland Empire									Out-of-state origin
Asotin	Columbia	Ferry	Garfield	Pend Oreille	Spokane	Stevens	Walla Walla	Whitman	
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	518
--	--	--	--	--	--	--	--	--	336
--	--	--	--	--	--	--	--	--	8,242
--	--	--	--	--	--	--	--	--	2,844
--	--	--	--	--	--	--	--	--	11,940
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	1,144
--	--	--	--	--	--	--	--	--	1,029
--	--	--	--	--	--	--	--	--	805
--	--	--	--	--	--	--	--	--	2,978
--	--	--	--	--	--	--	--	--	30,124
--	--	--	--	--	--	--	--	--	89,276
--	--	--	--	--	--	--	--	--	14,350
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	141,750
--	--	13,516	--	--	--	--	--	--	1,597
--	--	--	--	--	--	--	--	--	--
--	--	13,516	--	--	--	--	--	--	1,597
7,590	3,780	--	28,560	--	--	--	14	--	22,101
--	--	55,254	--	--	--	1,925	--	--	4,651
--	--	63,563	--	69,836	6,135	155,948	--	--	2,974
7,590	3,780	118,817	28,560	69,836	6,135	157,873	14	--	29,726
7,590	3,780	132,333	28,560	69,836	6,135	157,873	14	--	187,991

# SUMMARY 1986

**Table D-5  
Log Use From National Forests  
(Thousand Board Feet, Scribner Log Rule)**

Economic area	All National Forests	Mount Baker Snoqualmie	Colville <sup>1</sup>	Gifford Pinchot	Okanogan	Olympic	Wenatchee	Umatilla	Out-of-State National Forests
Puget Sound	366,723	253,711	--	24,481	6,075	59,062	23,394	--	--
Olympic Peninsula	312,428	6,876	--	198,781	--	106,771	--	--	--
Lower Columbia	161,088	--	--	139,185	--	--	--	--	21,903
Central Washington	190,255	--	--	--	90,282	--	99,973	--	--
Inland Empire	129,064	--	94,758	--	12,326	--	--	21,980	--
<b>Total Industry</b>	<b>1,159,558</b>	<b>260,587</b>	<b>94,758</b>	<b>362,447</b>	<b>108,683</b>	<b>165,833</b>	<b>123,367</b>	<b>21,980</b>	<b>21,903</b>
Lumber	858,057	225,369	89,063	275,412	64,921	100,161	77,800	21,980	3,351
Veneer & plywood	204,708	9,252	5,495	50,083	43,762	36,149	45,567	--	14,400
Pulp	69,554	10,738	--	36,398	--	18,266	--	--	4,152
Shake & shingle	26,947	15,224	--	466	--	11,257	--	--	--
Export	--	--	--	--	--	--	--	--	--
Post, pole & piling	292	4	200	88	--	--	--	--	--
<b>Total</b>	<b>1,159,558</b>	<b>260,587</b>	<b>94,758</b>	<b>362,447</b>	<b>108,683</b>	<b>165,833</b>	<b>123,367</b>	<b>21,980</b>	<b>21,903</b>

<sup>1</sup>Log harvests reported from the portion of the Kaniksu National Forest in Washington State are included in the Colville National Forest.

# SUMMARY 1986

## Table D-6 Number of Mills Dependent Upon Ownerships

Economic area and industry	National Forest				State				Bureau of Land Management				Other Public				Percent Industry											
	1-33		34-66		67-100		34-66		67-100		1-33		34-66		67-100		1-33		34-66		67-100		1-33		34-66		67-100	
	0	1-33	34-66	67-100	0	1-33	34-66	67-100	0	1-33	34-66	67-100	0	1-33	34-66	67-100	0	1-33	34-66	67-100	0	1-33	34-66	67-100	0	1-33	34-66	67-100
<b>Project Bound</b>																												
<b>Lumber:</b>																												
Veneer & plywood	20	8	3	9	20	15	3	2	39	1	--	--	31	9	--	--	30	6	1	3	21	10	7	2	16	10	2	12
Pulp	5	--	1	1	6	1	--	--	7	--	--	--	7	--	--	--	6	--	--	--	1	5	2	--	4	1	2	--
Shake & shingle	17	2	2	10	23	6	1	1	31	--	--	--	30	1	--	--	5	--	--	--	3	--	2	--	4	1	--	--
Export	35	--	--	4	17	10	4	35	--	--	--	27	4	--	--	--	30	--	--	--	1	23	1	2	5	30	--	--
Post, pole & piling	3	--	--	1	1	3	--	4	--	--	--	4	--	--	--	--	4	--	--	--	2	--	--	12	11	9	24	1
<b>Total</b>	84	11	6	21	58	43	14	7	121	1	--	--	104	18	--	--	109	6	1	6	60	19	23	20	65	37	6	14
<b>Olympic Peninsula</b>																												
Lumber:																												
Veneer & plywood	14	6	5	8	14	16	--	3	32	1	--	--	27	6	--	--	27	2	1	3	19	5	9	--	9	15	4	5
Pulp	3	2	--	2	3	--	1	--	5	--	--	--	10	--	--	--	9	1	--	--	1	6	--	1	1	8	1	--
Shake & shingle	51	14	4	4	39	7	6	21	73	--	--	--	67	3	2	--	3	--	2	--	2	1	2	--	2	2	--	--
Export	48	--	--	9	26	6	7	48	--	--	--	32	13	2	1	71	1	--	1	55	2	2	2	14	46	6	--	--
Post, pole & piling <sup>1</sup>	4	2	--	--	3	1	2	--	6	--	--	6	--	--	--	4	--	--	--	2	2	9	7	16	16	21	23	4
<b>Total</b>	124	27	10	14	75	54	15	31	173	2	--	--	145	26	2	150	3	7	7	93	15	33	34	100	51	6	8	
<b>Lower Columbia</b>																												
Lumber:																												
Veneer & plywood	8	2	2	2	7	7	--	--	14	--	--	--	12	2	--	--	6	4	3	1	5	5	1	3	5	6	1	1
Pulp	1	--	3	1	3	3	--	--	4	--	--	--	4	--	--	--	2	1	--	--	1	3	1	--	1	3	--	--
Shake & shingle <sup>2</sup>	10	1	1	1	7	3	--	--	10	--	--	--	10	--	--	--	10	--	--	--	7	1	2	--	10	--	--	--
Export	18	--	--	6	6	2	2	18	--	--	--	18	--	1	--	12	--	--	--	1	7	--	2	6	13	--	--	--
Post, pole & piling <sup>1</sup>	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	16	--	2	--	3	2	5	5	8	9	9	--	--
<b>Total</b>	44	4	3	8	31	24	2	2	59	--	--	--	56	2	1	46	5	5	3	25	9	8	17	37	18	1	2	
<b>Central Washington</b>																												
Lumber:																												
Veneer & plywood <sup>3</sup>	1	4	4	--	3	6	--	--	8	1	--	--	3	4	--	2	6	3	--	--	4	4	1	--	5	1	2	1
Pulp	1	1	2	1	2	3	--	--	4	1	--	--	3	2	--	2	2	2	1	--	5	--	--	--	1	3	--	--
Shake & shingle	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Export	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Post, pole & piling	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	2	5	6	1	5	9	--	--	12	2	--	--	6	6	--	8	5	1	--	9	4	1	0	6	4	2	2	
<b>Inland Empire</b>																												
Lumber:																												
Veneer & plywood <sup>3</sup>	9	6	3	3	14	6	1	--	20	1	--	--	16	5	--	16	1	3	1	18	3	--	--	--	9	3	9	
Pulp	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Shake & shingle <sup>2</sup>	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Export	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Post, pole & piling	2	1	--	--	2	1	--	--	3	--	--	--	2	--	--	3	--	--	--	2	1	--	--	--	--	--	--	--
<b>Total</b>	11	7	3	3	16	7	1	--	23	1	--	--	18	5	--	19	1	3	1	20	4	--	--	--	1	10	3	10
<b>Total, State</b>																												
Lumber:																												
Veneer & plywood	32	26	17	22	58	50	4	5	113	4	--	--	89	26	--	85	16	8	8	67	27	18	5	35	41	12	28	
Pulp	11	4	4	7	17	8	1	--	24	2	--	--	24	2	--	18	4	1	3	21	3	1	1	14	8	2	2	
Shake & shingle	78	17	6	16	72	16	7	22	117	--	--	108	2	--	--	108	--	2	--	12	2	6	--	16	3	--	--	
Export	101	--	--	--	19	51	18	13	101	--	--	77	23	4	3	113	--	1	3	85	3	4	25	109	6	1	1	
Post, pole & piling	9	3	--	1	6	5	2	--	13	--	--	12	--	--	1	12	--	1	--	4	1	1	3	5	5	6	2	
<b>Total</b>	265	54	28	67	185	137	32	40	388	6	--	--	329	57	3	340	20	17	17	207	51	65	71	217	120	20	36	

<sup>1</sup>Lower Columbia combined with Olympic Peninsula to avoid disclosure.  
<sup>2</sup>Inland Empire combined with Lower Columbia to avoid disclosure.  
<sup>3</sup>Inland Empire combined with Central Washington to avoid disclosure.

# SUMMARY 1986

**Table D-7**  
**Log Consumption by Ownership**  
**(Thousand Board Feet, Scribner Log Scale)**

Economic area and industry	All Owners	State	National <sup>1</sup> Forest	Bureau of Land Management	Other public	Forest Industry		
						Own wood supply	Other wood supply	Farmer & misc. private
<b>Puget Sound</b>								
Lumber	860,579	133,476	311,190	170	6,071	161,680	162,966	85,026
Veneer & plywood	77,935	740	34,476	--	--	21,904	7,696	13,119
Pulp	76,941	7,112	5,689	--	--	--	48,718	15,422
Shake & shingle	26,707	5,253	15,364	--	304	500	4,094	1,192
Export	690,025	224,216	--	--	21,908	1,860	305,391	136,650
Post, pole & piling	1,646	437	4	--	--	--	1,038	167
<b>Total</b>	<b>1,733,833</b>	<b>371,234</b>	<b>366,723</b>	<b>170</b>	<b>28,283</b>	<b>185,944</b>	<b>529,903</b>	<b>251,576</b>
<b>Olympic Peninsula</b>								
Lumber	814,599	123,831	257,613	600	6,726	232,108	120,050	73,671
Veneer & plywood	83,246	5,090	19,965	1,029	--	33,537	11,495	12,130
Pulp	247,111	41,544	23,315	0	9,085	120,991	47,154	5,022
Shake & shingle	57,661	26,153	11,447	--	1,179	2,742	15,695	445
Export	928,755	211,652	--	--	46,955	204,799	370,556	94,793
Post, pole & piling <sup>2</sup>	10,417	4,411	88	--	--	455	4,503	960
<b>Total</b>	<b>2,141,789</b>	<b>412,681</b>	<b>312,428</b>	<b>1,629</b>	<b>63,945</b>	<b>594,632</b>	<b>569,453</b>	<b>187,021</b>
<b>Lower Columbia</b>								
Lumber	396,011	30,282	64,959	--	6,729	159,964	89,100	44,977
Veneer & plywood	75,502	6,390	55,443	--	--	9,449	2,816	1,404
Pulp <sup>3</sup>	88,636	3,459	40,550	--	--	--	25,189	19,438
Shake & shingle <sup>3</sup>	8,870	364	136	--	60	200	8,110	--
Export	549,156	186,925	--	--	--	11,562	308,529	42,140
Post, pole & piling <sup>2</sup>	--	--	--	--	--	--	--	--
<b>Total</b>	<b>1,118,175</b>	<b>227,420</b>	<b>161,088</b>	<b>--</b>	<b>6,789</b>	<b>181,175</b>	<b>433,744</b>	<b>107,959</b>
<b>Central Washington</b>								
Lumber	295,018	18,130	100,926	2,102	80,786	27,289	34,682	31,103
Veneer & plywood <sup>4</sup>	192,767	10,812	94,824	2,093	15,313	36,678	--	33,047
Pulp	--	--	--	--	--	--	--	--
Shake & shingle	--	--	--	--	--	--	--	--
Export	--	--	--	--	--	--	--	--
Post, pole & piling	--	--	--	--	--	--	--	--
<b>Total</b>	<b>487,785</b>	<b>28,942</b>	<b>195,750</b>	<b>4,195</b>	<b>96,099</b>	<b>63,967</b>	<b>34,682</b>	<b>64,150</b>
<b>Inland Empire</b>								
Lumber	367,167	27,215	123,369	581	21,679	61,046	5,631	127,646
Veneer & plywood <sup>4</sup>	--	--	--	--	--	--	--	--
Pulp <sup>3</sup>	--	--	--	--	--	--	--	--
Shake & shingle <sup>3</sup>	--	--	--	--	--	--	--	--
Export	--	--	--	--	--	--	--	--
Post, pole & piling	8,700	200	200	--	7,500	--	200	600
<b>Total</b>	<b>375,867</b>	<b>27,415</b>	<b>123,569</b>	<b>581</b>	<b>29,179</b>	<b>61,046</b>	<b>5,831</b>	<b>128,246</b>
<b>Total, State</b>								
Lumber	2,733,374	332,934	858,057	3,453	121,991	642,087	412,429	362,423
Veneer & plywood	429,450	23,032	204,708	3,122	15,313	101,568	22,007	59,700
Pulp	412,688	52,115	69,554	0	9,085	120,991	121,061	39,882
Shake & shingle	93,238	31,770	26,947	0	1,543	3,442	27,899	1,637
Export	2,167,936	622,793	0	0	68,863	218,221	984,476	273,583
Post, pole & piling	20,763	5,048	292	0	7,500	455	5,741	1,727
<b>Total</b>	<b>5,857,449</b>	<b>1,067,692</b>	<b>1,159,558</b>	<b>6,575</b>	<b>224,295</b>	<b>1,086,764</b>	<b>1,573,613</b>	<b>738,952</b>

<sup>1</sup>National Forest includes Canadian and British Columbia provincial forests.

<sup>2</sup>Lower Columbia combined with Olympic Peninsula to avoid disclosure.

<sup>3</sup>Inland Empire combined with Lower Columbia to avoid disclosure.

<sup>4</sup>Inland Empire combined with Central Washington to avoid disclosure.



**Table D-8**  
**Log Consumption by Species**  
**(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
<b>Puget Sound</b>										
Lumber	860,579	413,599	261,392	19,285	100	--	--	90,946	14,423	60,834
Veneer & plywood	77,935	30,033	34,578	--	--	--	--	--	--	13,324
Pulp	76,941	--	35,557	35,556	--	--	--	--	--	5,828
Shake & shingle	26,707	--	--	--	--	--	--	26,087	620	--
Export	690,025	463,960	184,099	26,008	3,384	280	144	6,320	3,776	2,054
Post, pole & piling	1,646	895	--	--	--	--	--	751	--	--
<b>Total</b>	<b>1,733,833</b>	<b>908,487</b>	<b>515,626</b>	<b>80,849</b>	<b>3,484</b>	<b>280</b>	<b>144</b>	<b>124,104</b>	<b>18,819</b>	<b>82,040</b>
<b>Olympic Peninsula</b>										
Lumber	814,599	366,951	308,562	21,121	2,055	--	1,304	55,507	--	59,099
Veneer & plywood	83,246	61,085	12,383	6,184	--	--	--	3,594	--	--
Pulp	247,111	21,624	177,531	43,414	4,542	--	--	--	--	--
Shake & shingle	57,661	--	--	--	--	--	--	57,661	--	--
Export	928,755	215,288	617,662	10,608	25,633	--	141	56,759	2,618	46
Post, pole & piling <sup>1</sup>	10,417	10,272	--	--	--	--	--	115	--	--
<b>Total</b>	<b>2,141,789</b>	<b>675,220</b>	<b>1,116,138</b>	<b>81,327</b>	<b>32,230</b>	<b>--</b>	<b>1,445</b>	<b>173,636</b>	<b>2,618</b>	<b>59,145</b>
<b>Lower Columbia</b>										
Lumber	396,011	215,907	26,499	9,101	--	61,110	--	1,406	--	82,010
Veneer & plywood	75,502	49,976	16,494	9,032	--	--	--	--	--	--
Pulp <sup>2</sup>	88,636	21,373	51,380	--	486	--	--	--	--	15,397
Shake & shingle <sup>2</sup>	8,870	--	--	--	--	--	--	8,870	--	--
Export	549,156	455,429	75,881	10,414	2,989	--	--	3,584	859	--
Post, pole & piling <sup>1</sup>	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>1,118,175</b>	<b>742,685</b>	<b>170,232</b>	<b>28,547</b>	<b>3,475</b>	<b>61,110</b>	<b>--</b>	<b>13,860</b>	<b>859</b>	<b>97,407</b>
<b>Central Washington</b>										
Lumber	295,018	49,571	23,205	23,117	4,888	178,867	4,846	--	10,524	--
Veneer & plywood <sup>3</sup>	192,767	151,642	4,349	17,310	1,221	--	--	--	16,745	1,500
Pulp	--	--	--	--	--	--	--	--	--	--
Shake & shingle	--	--	--	--	--	--	--	--	--	--
Export	--	--	--	--	--	--	--	--	--	--
Post, pole & piling	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>487,785</b>	<b>201,213</b>	<b>27,554</b>	<b>40,427</b>	<b>6,109</b>	<b>178,867</b>	<b>4,846</b>	<b>--</b>	<b>27,269</b>	<b>1,500</b>
<b>Inland Empire</b>										
Lumber	367,167	152,664	24,015	10,272	16,177	99,737	35,578	10,918	17,786	20
Veneer & plywood <sup>3</sup>	--	--	--	--	--	--	--	--	--	--
Pulp <sup>2</sup>	--	--	--	--	--	--	--	--	--	--
Shake & shingle <sup>2</sup>	--	--	--	--	--	--	--	--	--	--
Export	--	--	--	--	--	--	--	--	--	--
Post, pole & piling	8,700	--	--	--	--	--	8,700	--	--	--
<b>Total</b>	<b>375,867</b>	<b>152,664</b>	<b>24,015</b>	<b>10,272</b>	<b>16,177</b>	<b>99,737</b>	<b>44,278</b>	<b>10,918</b>	<b>17,786</b>	<b>20</b>
<b>Total, State</b>										
Lumber	2,733,374	1,198,692	643,651	82,896	23,220	339,714	41,728	158,777	42,733	201,963
Veneer & plywood	429,450	292,736	67,804	32,526	1,221	--	--	3,594	16,745	14,824
Pulp	412,688	42,997	264,468	78,970	5,028	--	--	--	--	21,225
Shake & shingle	93,238	--	--	--	--	--	--	92,618	620	--
Export	2,167,936	1,134,677	877,642	47,030	32,006	280	285	66,663	7,253	2,100
Post, pole & piling	20,763	11,167	--	--	--	--	8,700	896	--	--
<b>Total</b>	<b>5,857,449</b>	<b>2,680,269</b>	<b>1,853,565</b>	<b>241,422</b>	<b>61,475</b>	<b>339,994</b>	<b>50,713</b>	<b>322,548</b>	<b>67,351</b>	<b>240,112</b>

<sup>1</sup>Olympic Peninsula and Lower Columbia combined to avoid disclosure.

<sup>2</sup>Lower Columbia and Inland Empire combined to avoid disclosure.

<sup>3</sup>Central Washington and Inland Empire combined to avoid disclosure.

# SUMMARY 1986

**Table D-9  
Production and Disposition of Wood and Bark Residues  
(Tons, Dry Weight)**

Economic area and residue-producing industry	Wood Residue						
	All residues	All wood	Used <sup>1</sup>				Unused
			Total	Pulp & board	Fuel	Other	
<b>Puget Sound</b>							
Lumber	1,379,524	1,076,231	1,050,786	219,548	576,400	254,838	25,445
Veneer & plywood	169,558	140,172	140,172	30,157	101,493	8,522	--
Shake & shingle	29,338	20,455	11,322	--	6,448	4,874	9,133
Other <sup>2</sup>	38,796	--	--	--	--	--	--
<b>Total</b>	<b>1,617,216</b>	<b>1,236,858</b>	<b>1,202,280</b>	<b>249,705</b>	<b>684,341</b>	<b>268,234</b>	<b>34,578</b>
<b>Olympic Peninsula</b>							
Lumber	1,385,899	1,080,496	1,058,163	386,525	496,359	175,279	22,333
Veneer & plywood	182,696	151,860	151,860	42,096	83,031	26,733	--
Shake & shingle	59,405	42,395	19,638	233	11,305	8,100	22,757
Other <sup>2</sup>	43,499	--	--	--	--	--	--
<b>Total</b>	<b>1,671,499</b>	<b>1,274,751</b>	<b>1,229,661</b>	<b>428,854</b>	<b>590,695</b>	<b>210,112</b>	<b>45,090</b>
<b>Lower Columbia</b>							
Lumber	706,943	550,365	550,365	239,102	311,042	221	--
Veneer & plywood	161,756	130,038	130,038	65,363	44,894	19,781	--
Shake & shingle <sup>3</sup>	9,743	7,233	7,203	--	6,119	1,084	30
Other <sup>2</sup>	61,020	--	--	--	--	--	--
<b>Total</b>	<b>939,462</b>	<b>687,603</b>	<b>687,574</b>	<b>304,465</b>	<b>362,055</b>	<b>21,086</b>	<b>30</b>
<b>Central Washington</b>							
Lumber	494,547	389,316	385,103	153,413	123,273	108,417	4,213
Veneer & plywood <sup>4</sup>	367,110	290,628	288,192	134,416	132,935	20,841	2,436
Shake & shingle	--	--	--	--	--	--	--
Other <sup>2</sup>	--	--	--	--	--	--	--
<b>Total</b>	<b>861,657</b>	<b>679,944</b>	<b>673,295</b>	<b>287,829</b>	<b>256,208</b>	<b>129,258</b>	<b>6,649</b>
<b>Inland Empire</b>							
Lumber	641,032	503,406	502,464	95,078	151,069	256,317	942
Veneer & plywood <sup>4</sup>	--	--	--	--	--	--	--
Shake & shingle <sup>3</sup>	--	--	--	--	--	--	--
Other <sup>2</sup>	2,697	--	--	--	--	--	--
<b>Total</b>	<b>643,729</b>	<b>503,406</b>	<b>502,464</b>	<b>95,078</b>	<b>151,069</b>	<b>256,317</b>	<b>942</b>
<b>Total, State</b>							
Lumber	4,607,945	3,599,814	3,546,881	1,093,666	1,658,143	795,072	52,933
Veneer & plywood	881,120	712,698	710,262	272,032	362,353	75,877	2,436
Shake & shingle	98,486	70,083	38,163	233	23,872	14,058	31,920
Other <sup>2</sup>	145,923	--	--	--	--	--	--
<b>Total</b>	<b>5,733,474</b>	<b>4,382,595</b>	<b>4,295,306</b>	<b>1,365,931</b>	<b>2,044,368</b>	<b>885,007</b>	<b>87,289</b>

<sup>1</sup>Used residues were not necessarily consumed in the economic area in which they were produced.

<sup>2</sup>Other includes log export, and post, pole and piling operations.

<sup>3</sup>Inland Empire combined with Lower Columbia to avoid disclosure.

<sup>4</sup>Inland Empire combined with Central Washington to avoid disclosure.

**Table D-9 (Continued)**  
**Production and Disposition of Wood and Bark Residues**  
**(Thousand Board Feet, Scribner Log Rule)**

Bark Residue					
Used <sup>1</sup>					
All bark	Total	Pulp & board	Fuel	Other	Unused
303,293	289,240	--	181,740	107,500	14,053
29,386	29,386	--	19,639	9,747	0
8,883	4,761	--	4,085	676	4,122
38,796	38,775	--	31,077	7,698	21
380,358	362,162	--	236,541	125,621	18,196
305,403	293,223	--	223,227	69,996	12,180
30,836	30,836	--	16,722	14,114	--
17,010	8,407	101	4,858	3,448	8,603
43,410	43,269	--	43,358	--	141
396,659	375,735	101	288,165	87,558	20,924
156,578	156,578	17,680	138,827	71	--
31,718	31,718	--	31,718	--	--
2,510	2,492	--	2,199	293	18
61,020	61,020	--	60,276	744	--
251,826	251,808	17,680	233,020	1,108	18
105,231	101,540	--	70,405	31,135	3,691
76,482	75,690	--	65,522	10,168	792
--	--	--	--	--	--
--	--	--	--	--	--
181,713	177,230	--	135,927	41,303	4,483
137,626	137,412	--	70,354	67,058	214
--	--	--	--	--	--
--	--	--	--	--	--
2,697	124	--	--	124	2,573
140,323	137,536	--	70,354	67,182	2,787
1,008,131	977,993	17,680	684,553	275,760	30,138
168,422	167,630	--	133,601	34,029	792
28,403	15,660	101	11,142	4,417	12,743
145,923	143,188	--	134,622	8,566	2,735
1,350,879	1,304,471	17,781	963,918	322,772	46,408

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**Table D-10**  
**Log Consumption by Timber Age**  
**(Thousand Board Feet, Scribner Log Scale)**

Economic area and industry	All age groups	Old growth (100+ years)	Young growth (Less than 100 years)
<b>Puget Sound</b>			
Lumber	860,579		
Veneer & plywood	77,935	225,763	634,816
Pulp	76,941	29,918	48,017
Shake & shingle	26,707	32,001	44,940
Export	690,025	26,582	125
Post, pole & piling	1,646	288,749	401,276
		4	1,642
<b>Total</b>	<b>1,733,833</b>	<b>603,017</b>	<b>1,130,816</b>
<b>Olympic Peninsula</b>			
Lumber	814,599		
Veneer & plywood	83,246	278,005	536,594
Pulp	247,111	29,477	53,769
Shake & shingle	57,661	50,818	196,293
Export	928,755	56,231	1,430
Post, pole & piling <sup>1</sup>	10,417	187,759	740,996
		--	10,417
<b>Total</b>	<b>2,141,789</b>	<b>602,290</b>	<b>1,539,499</b>
<b>Lower Columbia</b>			
Lumber	396,011		
Veneer & plywood	75,502	109,773	286,238
Pulp <sup>2</sup>	88,636	52,034	23,468
Shake & shingle <sup>2</sup>	8,870	64,848	23,788
Export	549,156	8,250	620
Post, pole & piling <sup>1</sup>	--	286,384	262,772
		--	--
<b>Total</b>	<b>1,118,175</b>	<b>521,289</b>	<b>597,886</b>
<b>Central Washington</b>			
Lumber	295,018		
Veneer & plywood <sup>3</sup>	192,767	182,194	112,824
Pulp	--	131,251	61,516
Shake & shingle	--	--	--
Export	--	--	--
Post, pole & piling	--	--	--
		--	--
<b>Total</b>	<b>487,785</b>	<b>313,445</b>	<b>174,340</b>
<b>Inland Empire</b>			
Lumber	367,167		
Veneer & plywood <sup>3</sup>	--	174,339	192,828
Pulp <sup>2</sup>	--	--	--
Shake & shingle <sup>2</sup>	--	--	--
Export	--	--	--
Post, pole & piling	8,700	--	--
		400	8,300
<b>Total</b>	<b>375,867</b>	<b>174,739</b>	<b>201,128</b>
<b>Total, State</b>			
Lumber	2,733,374		
Veneer & plywood	429,450	970,074	1,763,300
Pulp	412,688	242,680	186,770
Shake & shingle	93,238	147,667	265,021
Export	2,167,936	91,063	2,175
Post, pole & piling	20,763	762,892	1,405,044
		404	20,359
<b>Total</b>	<b>5,857,449</b>	<b>2,214,780</b>	<b>3,642,669</b>

<sup>1</sup>Lower Columbia combined with Olympic Peninsula to avoid disclosure.

<sup>2</sup>Inland Empire combined with Lower Columbia to avoid disclosure.

<sup>3</sup>Inland Empire combined with Central Washington to avoid disclosure.

## SAWMILLS 1986

Table D-11  
Number of Sawmills by Mill Size-Class

Economic area and county	All classes	Mill size-class <sup>1</sup>			
		D	C	B	A
<b>Puget Sound</b>					
Island	1	--	1	--	--
King	8	4	1	--	3
Kitsap	1	--	--	--	1
Pierce	5	--	--	1	4
San Juan	1	1	--	--	--
Skagit	3	1	1	--	1
Snohomish	18	6	6	1	5
Whatcom	3	2	1	--	--
<b>Total</b>	<b>40</b>	<b>14</b>	<b>10</b>	<b>2</b>	<b>14</b>
<b>Olympic Peninsula</b>					
Clallam	8	7	--	--	1
Grays Harbor	7	2	1	--	4
Jefferson	2	1	1	--	--
Lewis	8	3	1	--	4
Mason	4	1	1	--	2
Pacific	1	--	--	--	1
Thurston	3	1	--	--	2
<b>Total</b>	<b>33</b>	<b>15</b>	<b>4</b>	<b>--</b>	<b>14</b>
<b>Lower Columbia</b>					
Clark	4	3	--	--	1
Cowlitz	5	1	2	--	2
Klickitat	4	--	--	4	--
Skamania	1	--	--	--	1
Wahkiakum	--	--	--	--	--
<b>Total</b>	<b>14</b>	<b>4</b>	<b>2</b>	<b>4</b>	<b>4</b>
<b>Central Washington</b>					
Chelan	1	--	--	1	--
Okanogan	4	1	1	1	1
Yakima	4	--	--	1	3
<b>Total</b>	<b>9</b>	<b>1</b>	<b>1</b>	<b>3</b>	<b>4</b>
<b>Inland Empire</b>					
Asotin	2	1	--	1	--
Columbia	--	--	--	--	--
Ferry	3	1	1	--	1
Pend Oreille	--	--	--	--	--
Spokane	2	2	--	--	--
Stevens	12	4	2	2	4
Walla Walla	2	1	--	1	--
<b>Total</b>	<b>21</b>	<b>9</b>	<b>3</b>	<b>4</b>	<b>5</b>
<b>Total, State</b>	<b>117</b>	<b>43</b>	<b>20</b>	<b>13</b>	<b>41</b>

<sup>1</sup>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+.

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**Table D-12**  
**Installed Eight-Hour Single-Shift Capacity, Daily Basis**  
**(Thousand Board Feet, Lumber Tally)**

Economic area and county	Total capacity	Mill size-class <sup>1</sup>			
		D	C	B	A
<b>Puget Sound</b>					
Island	40	--	40	--	--
King	652	22	45	--	585
Kitsap	400	--	--	--	400
Pierce	910	--	--	110	800
San Juan	5	5	--	--	--
Skagit	255	15	40	--	200
Snohomish	1,365	85	355	100	825
Whatcom	78	3	75	--	--
<b>Total</b>	<b>3,705</b>	<b>130</b>	<b>555</b>	<b>210</b>	<b>2,810</b>
<b>Olympic Peninsula</b>					
Clallam	211	71	--	--	140
Grays Harbor	888	18	40	--	830
Jefferson	92	17	75	--	--
Lewis	1,041	21	70	--	950
Mason	605	20	75	--	510
Pacific	210	--	--	--	210
Thurston	293	3	--	--	290
<b>Total</b>	<b>3,340</b>	<b>150</b>	<b>260</b>	<b>--</b>	<b>2,930</b>
<b>Lower Columbia</b>					
Clark	186	26	--	--	160
Cowlitz	981	14	135	--	832
Klickitat	370	--	--	370	--
Skamania	125	--	--	--	125
Wahkiakum	--	--	--	--	--
<b>Total</b>	<b>1,662</b>	<b>40</b>	<b>135</b>	<b>370</b>	<b>1,117</b>
<b>Central Washington</b>					
Chelan	100	--	--	100	--
Okanogan	363	3	60	100	200
Yakima	540	--	--	80	460
<b>Total</b>	<b>1,003</b>	<b>3</b>	<b>60</b>	<b>280</b>	<b>660</b>
<b>Inland Empire</b>					
Asotin	104	4	--	100	--
Columbia	--	--	--	--	--
Ferry	260	10	50	--	200
Pend Oreille	--	--	--	--	--
Spokane	10	10	--	--	--
Stevens	985	56	100	176	653
Walla Walla	109	4	--	105	--
<b>Total</b>	<b>1,468</b>	<b>84</b>	<b>150</b>	<b>381</b>	<b>853</b>
<b>Total, State</b>	<b>11,178</b>	<b>407</b>	<b>1,160</b>	<b>1,241</b>	<b>8,370</b>

<sup>1</sup>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+.

# SAWMILLS 1986

**Table D-13**  
**Number of Sawmills**  
**with Selected Equipment by Mill Size-Class<sup>1</sup>**

Economic area and mill size-class	Barker	Chipper	Planer	Burner	Kiln
<b>Puget Sound</b>					
D	3	2	9	1	1
C	9	8	7	2	3
B	2	2	1	--	1
A	14	14	14	--	7
<b>Total</b>	<b>28</b>	<b>26</b>	<b>31</b>	<b>3</b>	<b>12</b>
<b>Olympic Peninsula</b>					
D	2	4	7	1	3
C	3	4	2	--	1
B	--	--	--	--	--
A	14	14	13	2	8
<b>Total</b>	<b>19</b>	<b>22</b>	<b>22</b>	<b>3</b>	<b>12</b>
<b>Lower Columbia</b>					
D	1	1	3	--	2
C	2	2	2	--	1
B	4	3	3	--	3
A	3	3	2	--	1
<b>Total</b>	<b>10</b>	<b>9</b>	<b>10</b>	<b>--</b>	<b>7</b>
<b>Central Washington</b>					
D	--	--	--	--	--
C	1	1	1	1	--
B	3	3	3	--	3
A	4	4	3	--	3
<b>Total</b>	<b>8</b>	<b>8</b>	<b>7</b>	<b>1</b>	<b>6</b>
<b>Inland Empire</b>					
D	1	--	6	1	1
C	3	3	3	--	1
B	4	4	3	--	3
A	5	5	5	3	5
<b>Total</b>	<b>13</b>	<b>12</b>	<b>17</b>	<b>4</b>	<b>10</b>
<b>Total, State</b>					
D	7	7	25	3	7
C	18	18	15	3	6
B	13	12	10	--	10
A	40	40	37	5	24
<b>Total</b>	<b>78</b>	<b>77</b>	<b>87</b>	<b>11</b>	<b>47</b>

<sup>1</sup>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+.

# SAWMILLS 1986

## Table D-14 Number of Sawmills with Selected Equipment by County

Economic area and county	Barker	Chipper	Planer	Burner	Kiln
<b>Puget Sound</b>					
Island	1	1	1	1	--
King	3	4	5	--	2
Kitsap	1	1	1	--	--
Pierce	5	5	4	--	1
San Juan	--	--	1	--	--
Skagit	2	2	2	1	1
Snohomish	15	12	15	1	7
Whatcom	1	1	2	--	1
<b>Total</b>	<b>28</b>	<b>26</b>	<b>31</b>	<b>3</b>	<b>12</b>
<b>Olympic Peninsula</b>					
Clallam	1	1	4	1	1
Grays Harbor	4	5	4	1	2
Jefferson	1	2	1	--	1
Lewis	6	7	8	1	5
Mason	4	4	2	--	2
Pacific	1	1	1	--	1
Thurston	2	2	2	--	--
<b>Total</b>	<b>19</b>	<b>22</b>	<b>22</b>	<b>3</b>	<b>12</b>
<b>Lower Columbia</b>					
Clark	1	1	3	--	1
Cowlitz	4	4	3	--	2
Klickitat	4	3	3	--	3
Skamania	1	1	1	--	1
Wahkiakum	--	--	--	--	--
<b>Total</b>	<b>11</b>	<b>9</b>	<b>10</b>	<b>--</b>	<b>7</b>
<b>Central Washington</b>					
Chelan	1	1	1	--	1
Okanogan	3	3	3	1	2
Yakima	4	4	3	--	3
<b>Total</b>	<b>8</b>	<b>8</b>	<b>7</b>	<b>1</b>	<b>6</b>
<b>Inland Empire</b>					
Asotin	1	1	1	--	1
Columbia	--	--	--	--	--
Ferry	2	2	3	--	2
Pend Oreille	--	--	--	--	--
Spokane	--	--	1	--	--
Stevens	9	8	10	4	6
Walla Walla	1	1	2	--	1
<b>Total</b>	<b>13</b>	<b>12</b>	<b>17</b>	<b>4</b>	<b>10</b>
<b>Total, State</b>	<b>78</b>	<b>77</b>	<b>87</b>	<b>11</b>	<b>47</b>



**Table D-15**  
**Number of Sawmills by Headrig Type and Size**

Economic area and mill size- class <sup>1</sup>	Circular saw				Band saw				Gang saw	Chipping saw	Scrapp
	2 ft.	4 ft.	6 ft.	8@ ft.	4 ft.	6 ft.	8 ft.	8@ ft.	2 ft.	2 ft.	2 ft.
<b>Puget Sound</b>											
D	--	11	1	1	1	--	--	--	--	--	--
C	--	1	--	--	7	2	--	--	--	--	--
B	--	1	--	--	--	1	--	--	--	1	1
A	--	--	--	--	8	5	1	--	--	3	1
Total	--	13	1	1	16	8	1	--	--	4	2
<b>Olympic Peninsula</b>											
D	--	6	3	5	2	--	--	--	--	1	1
C	--	1	--	--	1	2	--	--	--	--	--
B	--	--	--	--	--	--	--	--	--	--	--
A	--	--	--	--	5	4	1	1	--	5	1
Total	--	7	3	5	8	6	1	1	--	6	2
<b>Lower Columbia</b>											
D	--	3	--	--	--	1	--	--	--	--	--
C	--	--	--	--	1	1	--	--	--	--	--
B	--	--	--	--	2	2	--	--	--	--	1
A	--	--	--	--	2	1	1	--	1	1	--
Total	--	3	--	--	5	5	1	--	1	1	1
<b>Central Washington</b>											
D	--	--	1	--	--	--	--	--	--	--	--
C	--	--	--	--	1	--	--	--	--	--	--
B	--	--	--	--	1	2	--	--	--	--	--
A	--	--	--	--	--	3	--	--	--	1	--
Total	--	--	1	--	2	5	--	--	--	1	--
<b>Inland Empire</b>											
D	1	7	--	--	--	1	--	--	--	--	--
C	--	3	--	--	--	--	--	--	--	--	1
B	--	--	--	--	2	2	--	--	--	--	--
A	--	2	--	--	5	--	--	--	--	--	1
Total	1	12	--	--	7	3	--	--	--	--	2
<b>Total, State</b>											
D	1	27	5	6	3	2	--	--	--	1	1
C	--	5	--	--	10	5	--	--	--	--	1
B	--	1	--	--	5	7	--	--	--	1	2
A	--	2	--	--	20	13	3	1	1	10	3
Total	1	35	5	6	38	27	3	1	1	12	7

<sup>1</sup>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.

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**Table D-16**  
**Number of Sawmills by Tenure**  
**of Present Ownership by Site Occupancy**

Present mill size-class <sup>1</sup>	Site occupancy (years)	All mills	Tenure of present mill ownership (years)				
			0-2	3-5	6-10	11-20	21+
D	0-2	--	--	--	--	--	--
	3-5	1	--	1	--	--	--
	6-10	7	--	--	7	--	--
	11-20	13	--	--	1	12	--
	21+	22	1	3	2	3	13
	<b>Total</b>		<b>43</b>	<b>1</b>	<b>4</b>	<b>10</b>	<b>15</b>
C	0-2	1	1	--	--	--	--
	3-5	1	--	1	--	--	--
	6-10	3	2	--	1	--	--
	11-20	2	--	--	--	1	1
	21+	13	--	1	2	3	7
	<b>Total</b>		<b>20</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>4</b>
B	0-2	1	1	--	--	--	--
	3-5	--	--	--	--	--	--
	6-10	--	--	--	--	--	--
	11-20	2	--	--	--	2	--
	21+	10	1	--	1	4	4
	<b>Total</b>		<b>13</b>	<b>2</b>	<b>--</b>	<b>1</b>	<b>6</b>
A	0-2	--	--	--	--	--	--
	3-5	--	--	--	--	--	--
	6-10	5	--	--	5	--	--
	11-20	8	--	--	1	6	1
	21+	28	4	6	1	--	17
	<b>Total</b>		<b>41</b>	<b>4</b>	<b>6</b>	<b>7</b>	<b>6</b>
<b>Total, State</b>	0-2	2	2	--	--	--	--
	3-5	2	--	2	--	--	--
	6-10	15	2	--	13	--	--
	11-20	25	--	--	2	21	2
	21+	73	6	10	6	10	41
	<b>Total</b>		<b>117</b>	<b>10</b>	<b>12</b>	<b>21</b>	<b>31</b>

<sup>1</sup>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 D-17  
Average Number of Operating Days

Economic area and mill size- class <sup>1</sup>	Average number of operating days per year	Economic area and mill size- class <sup>1</sup>	Average number of operating days per year
<b>Puget Sound</b>		<b>Central Washington</b>	
D	145	D <sup>2</sup>	209
C <sup>3</sup>	231	A	252
A	241		
<hr/>		<hr/>	
Average	203	Average	232
<b>Olympic Peninsula</b>		<b>Inland Empire</b>	
D	186	D	82
C	238	C	233
A	236	B	239
		A	243
<hr/>		<hr/>	
Average	213	Average	172
<b>Lower Columbia</b>		<b>State</b>	
D <sup>4</sup>	145	D	141
B	237	C	231
A	195	B	241
		A	236
<hr/>		<hr/>	
Average	185	Average	201

<sup>1</sup>Mill size-classes are 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+.

<sup>2</sup>Size-class D includes Size-class C and B for Central Washington.

<sup>3</sup>Size-class C includes Size-class B for Puget Sound.

<sup>4</sup>Size-class D included Size-class C for Lower Columbia.

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**Table D-18**  
**Type of Wood Consumed**  
**(Thousand Board Feet)**

Economic area and mill size- class <sup>1</sup>	Roundwood			Other	
	All roundwood	Sound logs	Utility logs	Peeler cores	Cants
-----Scribner log rule-----			---Lumber tally---		
Puget Sound					
D	14,513	14,424	89	--	50
C & B <sup>2</sup>	144,720	143,947	773	--	48
A	701,346	698,534	2,812	--	2,000
Total	860,579	856,905	3,674	--	2,098
Olympic Peninsula					
D	59,512	58,675	837	--	--
C	54,000	40,420	13,580	--	--
A	701,087	612,481	88,606	--	--
Total	814,599	711,576	103,023	--	--
Lower Columbia					
D & C <sup>2</sup>	94,255	94,064	191	--	--
B	107,273	105,994	1,279	--	--
A	194,486	181,770	12,713	--	--
Total	396,011	381,828	14,183	--	--
Central Washington					
D, C & B <sup>2</sup>	94,107	89,305	4,802	--	--
A	200,911	200,911	--	--	--
Total	295,018	290,216	4,802	--	--
Inland Empire					
D	1,151	1,058	93	--	--
C	23,200	22,850	350	--	--
B	116,298	116,298	--	--	--
A	226,518	221,867	4,651	--	--
Total	367,167	362,073	5,094	--	--
Total, State					
D <sup>3,4</sup>	263,538	257,526	6,012	--	50
C <sup>5</sup>	221,920	207,217	14,703	--	48
B	223,571	222,292	1,279	--	--
A	2,024,345	1,915,563	108,782	--	2,000
Total	2,733,374	2,602,598	130,776	0	2,098

<sup>1</sup>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+.

<sup>2</sup>Combined to avoid disclosure.

<sup>3</sup>Total for Class D includes Class C for Lower Columbia.

<sup>4</sup>Total for Class D includes Class C and Class B for Central Washington.

<sup>5</sup>Total for Class C includes Class B for Puget Sound.

**Table D-19**  
**Age of Logs Consumed by Mill Size-Class**  
**(Thousand Board Feet, Scribner Log Rule)**

Economic area and mill size-class <sup>1</sup>	All age groups	Old growth (100+ years)	Young growth (less than 100 years)
<b>Puget Sound</b>			
D	14,513	197	14,316
C & B <sup>2</sup>	144,720	31,036	113,684
A	701,346	194,530	506,816
<b>Total</b>	<b>860,579</b>	<b>225,763</b>	<b>634,816</b>
<b>Olympic Peninsula</b>			
D	59,512	10,375	49,137
C	54,000	35,830	18,170
A	701,087	231,800	469,287
<b>Total</b>	<b>814,599</b>	<b>278,005</b>	<b>536,594</b>
<b>Lower Columbia</b>			
D & C <sup>2</sup>	94,255	5,200	89,055
B	107,273	58,025	49,248
A	194,483	56,548	147,935
<b>Total</b>	<b>396,011</b>	<b>109,773</b>	<b>286,238</b>
<b>Central Washington</b>			
D, C & B <sup>2</sup>	94,107	56,695	37,412
A	200,911	125,499	75,412
<b>Total</b>	<b>295,018</b>	<b>182,194</b>	<b>112,824</b>
<b>Inland Empire</b>			
D	1,151	405	746
C	23,200	4,550	18,650
B	116,298	81,739	34,559
A	226,518	87,645	138,873
<b>Total</b>	<b>367,167</b>	<b>174,339</b>	<b>192,828</b>
<b>Total, State</b>			
D <sup>3,4</sup>	263,538	72,872	153,254
C <sup>5</sup>	221,920	71,416	150,504
B	223,571	139,764	83,807
A	2,024,345	686,022	1,338,323
<b>Total</b>	<b>2,733,374</b>	<b>970,074</b>	<b>1,763,300</b>

<sup>1</sup>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; A = 120,000+.

<sup>2</sup>Combined to avoid disclosure.

<sup>3</sup>Total for Class D includes Class C for Lower Columbia.

<sup>4</sup>Total for Class D includes Class C and Class B for Central Washington.

<sup>5</sup>Total for Class C includes Class B for Puget Sound.

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**Table D-20**  
**Age of Logs Consumed by County**  
**(Thousand Board Feet, Scribner Log Rule)**

Economic area and county	All age groups	Old growth (100+ years)	Young growth (less than 100 years)
<b>Puget Sound</b>			
Island/Kitsap/San Juan <sup>1</sup>	90,640	--	90,640
King	129,419	30,272	99,147
Pierce	235,136	34,715	200,421
Skagit	60,670	12,584	48,086
Snohomish	327,382	146,467	180,915
Whatcom	17,332	1,725	15,607
<b>Total</b>	<b>860,579</b>	<b>225,763</b>	<b>634,816</b>
<b>Olympic Peninsula</b>			
Clallam	42,029	22,205	19,824
Grays Harbor/Jefferson/ Pacific <sup>1</sup>	269,511	77,987	191,524
Lewis	329,550	176,313	153,237
Mason	116,449	--	116,449
Thurston	57,060	1,500	55,560
<b>Total</b>	<b>814,599</b>	<b>278,005</b>	<b>536,594</b>
<b>Lower Columbia</b>			
Clark	35,255	--	35,255
Cowlitz	237,133	50,930	186,203
Klickitat/Skamania <sup>1</sup>	123,623	58,843	64,780
<b>Total</b>	<b>396,011</b>	<b>109,773</b>	<b>286,238</b>
<b>Central Washington</b>			
Chelan/Okanogan <sup>1</sup>	132,188	80,152	52,036
Yakima	162,830	102,042	60,788
<b>Total</b>	<b>295,018</b>	<b>182,194</b>	<b>112,824</b>
<b>Inland Empire</b>			
Asotin/Walla Walla <sup>1</sup>	62,050	38,336	23,714
Ferry	65,320	59,222	6,098
Spokane/Stevens <sup>1</sup>	239,797	76,781	163,016
<b>Total</b>	<b>367,167</b>	<b>174,339</b>	<b>192,828</b>
<b>Total, State</b>	<b>2,733,374</b>	<b>970,074</b>	<b>1,763,300</b>

<sup>1</sup>Combined to avoid disclosure.

**Table D-21**  
**Log Inventory Changes, Log Consumption,**  
**and Apparent Log Receipts**  
**(Thousand Board Feet, Scribner Log Rule)**

Economic area	Log inventory		Net change	1986 Log consumption	Apparent 1986 log receipts
	January 1, 1986	December 31, 1986			
Puget Sound	84,074	96,675	12,061	860,579	873,180
Olympic Peninsula	124,211	106,264	-17,947	814,599	796,652
Lower Columbia	33,421	43,760	10,339	396,011	406,350
Central Washington	78,326	66,597	-11,729	295,018	283,289
Inland Empire	49,376	48,692	- 684	367,167	366,483
<b>Total, State</b>	<b>369,408</b>	<b>361,988</b>	<b>- 7,420</b>	<b>2,733,374</b>	<b>2,725,954</b>

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**Table D-22**  
**Ownership Origin of Logs Consumed by Mill Size**  
**(Thousand Board Feet, Scribner Log Rule)**

Economic area and mill size- class <sup>1</sup>	All owners	State	National Forest	Bureau of Land Management	Other public	Forest industry		Farmer and miscellaneous private
						Own wood supply	Other wood supply	
<b>Puget Sound</b>								
D	14,513	1,213	300	--	378	--	890	11,732
C & B <sup>2</sup>	144,720	27,228	39,009	--	3,493	8,704	46,092	20,194
A	701,346	105,035	271,881	170	2,200	152,976	115,984	53,100
<b>Total</b>	<b>860,579</b>	<b>133,476</b>	<b>311,190</b>	<b>170</b>	<b>6,071</b>	<b>161,680</b>	<b>162,966</b>	<b>85,026</b>
<b>Olympic Peninsula</b>								
D	59,512	13,479	4,623	--	125	10,500	19,684	11,101
C	54,000	20,540	17,690	--	248	--	11,180	4,342
A	701,087	89,812	235,380	600	6,353	221,608	89,186	58,228
<b>Total</b>	<b>814,599</b>	<b>123,831</b>	<b>257,613</b>	<b>600</b>	<b>6,726</b>	<b>232,108</b>	<b>120,050</b>	<b>73,671</b>
<b>Lower Columbia</b>								
D & C <sup>2</sup>	94,255	11,200	--	--	--	9,000	67,820	6,235
B	107,273	14,342	25,598	--	6,729	46,531	6,094	7,979
A	194,483	4,740	39,361	--	--	104,433	15,186	30,763
<b>Total</b>	<b>396,011</b>	<b>30,282</b>	<b>64,959</b>	<b>--</b>	<b>6,729</b>	<b>159,964</b>	<b>89,100</b>	<b>44,977</b>
<b>Central Washington</b>								
D, C & B <sup>2</sup>	94,107	636	8,006	--	52,819	--	16,260	16,386
A	200,911	17,494	92,920	2,102	27,967	27,289	18,422	14,717
<b>Total</b>	<b>295,018</b>	<b>18,130</b>	<b>100,926</b>	<b>2,102</b>	<b>80,786</b>	<b>27,289</b>	<b>34,682</b>	<b>31,103</b>
<b>Inland Empire</b>								
D	1,151	30	320	--	--	--	4	797
C	23,200	--	5,950	--	350	4,900	--	12,000
B	116,298	2,718	27,952	--	3,800	33,726	--	48,102
A	226,518	24,467	89,147	581	17,529	22,420	5,627	66,747
<b>Total</b>	<b>367,167</b>	<b>27,215</b>	<b>123,369</b>	<b>581</b>	<b>21,679</b>	<b>61,046</b>	<b>5,631</b>	<b>127,646</b>
<b>Total, State</b>								
D <sup>3,4</sup>	263,538	26,558	13,249	--	53,322	19,500	104,658	46,251
C <sup>5</sup>	221,920	47,768	62,649	--	4,091	13,604	57,272	36,536
B	223,571	17,060	53,550	--	10,529	80,257	6,094	56,081
A	2,024,345	241,548	728,609	3,453	54,049	528,726	244,405	223,555
<b>Total</b>	<b>2,733,374</b>	<b>332,934</b>	<b>858,057</b>	<b>3,453</b>	<b>121,991</b>	<b>642,087</b>	<b>412,429</b>	<b>362,423</b>

<sup>1</sup>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+.

<sup>2</sup>Combined to avoid disclosure.

<sup>3</sup>Total for Class D includes Class C for Lower Columbia.

<sup>4</sup>Total for Class D includes Class C and Class B for Central Washington.

<sup>5</sup>Total for Class C includes Class B for Puget Sound.



Table D-2:  
Ownership Origin of Logs Consumed by County  
(Thousand Board Feet, Scribner Log Rule)

Economic area and county	All owners	State	National Forest	Land Management	Other public	Forest industry		Farmer and misc. private
						Own wood supply	Other wood supply	
<b>Puget Sound</b>								
Island/Kitsap/San Juan <sup>1</sup>	90,640	42,500	--	--	--	24,454	23,386	30,000
King	129,419	172	25,745	170	--	86,238	16,507	58,000
Pierce	235,136	6,443	107,535	--	251	33,088	44,682	43,100
Skagit	60,670	26,918	10,000	--	583	900	15,084	7,100
Snohomish	327,382	53,993	165,324	--	4,375	17,000	56,411	30,200
Whatcom	17,332	3,450	2,586	--	862	--	6,896	3,500
<b>Total</b>	<b>860,579</b>	<b>133,476</b>	<b>311,190</b>	<b>170</b>	<b>6,071</b>	<b>161,680</b>	<b>162,966</b>	<b>85,000</b>
<b>Olympic Peninsula</b>								
Clallam	42,029	14,461	17,327	600	--	--	600	9,000
Grays Harbor/Jefferson/ Pacific <sup>1</sup>	269,511	60,607	47,281	--	2,128	109,596	46,554	3,300
Lewis	329,550	33,543	190,765	--	248	23,820	48,480	32,600
Mason	116,449	1,120	2,240	--	--	98,692	6,416	7,900
Thurston	57,060	14,100	--	--	4,350	--	18,000	20,600
<b>Total</b>	<b>814,599</b>	<b>123,831</b>	<b>257,613</b>	<b>600</b>	<b>6,726</b>	<b>232,108</b>	<b>120,050</b>	<b>73,600</b>
<b>Lower Columbia</b>								
Clark	35,255	--	22,750	--	--	--	20	12,400
Cowlitz	237,133	15,940	1,896	--	--	111,798	82,986	24,500
Klickitat/Skamania <sup>1</sup>	123,623	14,342	40,313	--	6,729	48,166	6,094	7,900
<b>Total</b>	<b>396,011</b>	<b>30,282</b>	<b>64,959</b>	<b>--</b>	<b>6,729</b>	<b>159,964</b>	<b>89,100</b>	<b>44,900</b>
<b>Central Washington</b>								
Chelan/Okanogan <sup>1</sup>	132,188	6,244	47,417	2,102	27,219	2,803	15,300	31,000
Yakima	162,830	11,886	53,509	--	53,567	24,486	19,382	19,300
<b>Total</b>	<b>295,018</b>	<b>18,130</b>	<b>100,926</b>	<b>2,102</b>	<b>80,786</b>	<b>27,289</b>	<b>34,682</b>	<b>31,000</b>
<b>Inland Empire</b>								
Asotin/Walla Walla <sup>1</sup>	62,050	--	21,980	--	--	8,750	4	31,000
Ferry	65,320	583	36,066	581	11,979	--	--	16,000
Spokane/Stevens <sup>1</sup>	239,797	26,632	65,323	--	9,700	52,296	5,627	80,000
<b>Total</b>	<b>367,167</b>	<b>27,215</b>	<b>123,369</b>	<b>581</b>	<b>21,679</b>	<b>61,046</b>	<b>5,631</b>	<b>127,000</b>
<b>Total, State</b>	<b>2,733,374</b>	<b>332,934</b>	<b>858,057</b>	<b>3,453</b>	<b>121,991</b>	<b>642,087</b>	<b>412,429</b>	<b>362,000</b>

<sup>1</sup>Combined to avoid disclosure.

# SAWMILLS 1986

## Table D-24

### Number of Mills Dependent Upon Ownerships

Economic area and mill size-class <sup>1</sup>	National Forest				State				Bureau of Land Management			
	0	1-33	34-66	67-100	0	1-33	34-66	67-100	0	1-33	34-66	67-100
	<hr/>											
<b>Puget Sound</b>	<hr/>											
D	13	1	--	---	11	3	--	--	14	--	--	--
C & B <sup>2</sup>	3	3	1	5	4	5	1	2	12	--	--	--
A	4	4	2	4	5	7	2	--	13	1	--	--
<b>Total</b>	<b>20</b>	<b>8</b>	<b>3</b>	<b>9</b>	<b>20</b>	<b>15</b>	<b>3</b>	<b>2</b>	<b>39</b>	<b>1</b>	<b>--</b>	<b>--</b>
<hr/>												
<b>Olympic Peninsula</b>	<hr/>											
D	7	3	1	4	9	5	--	1	15	--	--	--
C	--	2	1	1	--	3	--	--	4	--	--	--
A	7	1	3	3	5	8	--	1	13	1	--	--
<b>Total</b>	<b>14</b>	<b>6</b>	<b>5</b>	<b>8</b>	<b>14</b>	<b>16</b>	<b>--</b>	<b>3</b>	<b>32</b>	<b>1</b>	<b>--</b>	<b>--</b>
<hr/>												
<b>Lower Columbia</b>	<hr/>											
D & C <sup>2</sup>	6	--	--	--	3	3	--	--	6	--	--	--
B	1	1	1	1	1	3	--	--	4	--	--	--
A	1	1	1	1	3	1	--	--	4	--	--	--
<b>Total</b>	<b>8</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>7</b>	<b>7</b>	<b>--</b>	<b>--</b>	<b>14</b>	<b>--</b>	<b>--</b>	<b>--</b>
<hr/>												
<b>Central Washington</b>	<hr/>											
D, C & B <sup>2</sup>	1	4	--	--	3	2	--	--	5	--	--	--
A	--	--	4	--	--	4	--	--	3	1	--	--
<b>Total</b>	<b>1</b>	<b>4</b>	<b>4</b>	<b>--</b>	<b>3</b>	<b>6</b>	<b>--</b>	<b>--</b>	<b>8</b>	<b>1</b>	<b>--</b>	<b>--</b>
<hr/>												
<b>Inland Empire</b>	<hr/>											
D	8	--	--	1	8	1	--	--	9	--	--	--
C	1	1	--	1	3	--	--	--	3	--	--	--
B	--	3	1	--	2	2	--	--	4	--	--	--
A	--	2	2	1	1	3	1	--	4	1	--	--
<b>Total</b>	<b>9</b>	<b>6</b>	<b>3</b>	<b>3</b>	<b>14</b>	<b>6</b>	<b>1</b>	<b>--</b>	<b>20</b>	<b>1</b>	<b>--</b>	<b>--</b>
<hr/>												
<b>Total State</b>	<hr/>											
D <sup>3,4</sup>	35	8	1	5	34	14	--	1	49	--	--	--
C <sup>5</sup>	4	6	2	7	7	8	1	3	19	--	--	--
B	1	4	2	1	3	5	--	--	8	--	--	--
A	12	8	12	9	14	23	3	1	37	4	--	--
<b>Total</b>	<b>52</b>	<b>26</b>	<b>17</b>	<b>22</b>	<b>58</b>	<b>50</b>	<b>4</b>	<b>5</b>	<b>113</b>	<b>4</b>	<b>--</b>	<b>--</b>

<sup>1</sup>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+

<sup>2</sup>Combined to avoid disclosure

<sup>3</sup>Total for Class D includes Class C for Lower Columbia

<sup>4</sup>Total for Class D includes Class C and Class B for Central Washington

<sup>5</sup>Total for Class C includes Class B for Puget Sound

**Table D-24 (Continued)**  
**Number of Mills Dependent Upon Ownership**

	Forest industry															
	Other public				Own wood supply								Farmer & miscellaneous private			
	0	1-33	34-66	67-100	0	1-33	34-66	67-100	0	1-33	34-66	67-100	0	1-33	34-66	67-100
11	3	--	--	14	--	--	--	10	1	1	2	1	1	1	11	
8	4	--	--	9	2	1	--	6	2	4	--	5	6	1	--	
12	2	--	--	7	4	--	3	5	7	2	--	10	3	--	1	
31	9	--	--	30	6	1	3	21	10	7	2	16	10	2	12	
14	1	--	--	14	1	--	--	10	1	4	--	4	3	3	5	
3	1	--	--	4	--	--	--	2	--	2	--	--	4	--	--	
10	4	--	--	9	1	1	3	7	4	3	--	5	8	1	--	
27	6	--	--	27	2	1	3	19	5	9	--	9	15	4	5	
6	--	--	--	5	1	--	--	2	--	1	3	3	1	--	2	
2	2	--	--	--	2	2	--	1	3	--	--	1	3	--	--	
4	--	--	--	1	1	1	1	2	2	--	--	1	2	1	--	
12	2	--	--	6	4	3	1	5	5	1	3	5	6	1	2	
2	1	--	2	5	--	--	--	3	1	1	--	2	--	2	1	
1	3	--	--	1	3	--	--	1	3	--	--	3	1	--	--	
3	4	--	2	6	3	--	--	4	4	1	--	5	1	2	1	
9	--	--	--	9	--	--	--	8	1	--	--	--	1	--	8	
2	1	--	--	2	--	--	1	3	--	--	--	--	2	--	1	
2	2	--	--	1	1	2	--	4	--	--	--	--	2	2	--	
3	2	--	--	4	--	1	--	3	2	--	--	--	4	1	--	
16	5	--	--	16	1	3	1	18	3	--	--	--	9	3	9	
42	5	--	2	47	2	--	--	33	4	7	5	10	6	6	27	
13	6	--	--	15	2	1	1	11	2	6	--	5	12	1	1	
4	4	--	--	1	3	4	--	5	3	--	--	1	5	2	--	
30	11	--	--	22	9	3	7	18	18	5	--	19	18	3	1	
89	26	--	2	85	16	8	8	67	27	18	5	35	41	12	29	

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**Table D-25**  
**Log Consumption by Species, by Mill-Size-Class<sup>1</sup>**  
**(Thousand Board Feet, Scribner Log Rule)**

Economic area and mill size-class	All species	Douglas fir	Hemlock	True firs	Spruce	Pond. pine	Lodgepole pine	Western redcedar	Other softwoods	Hardwoods
<b>Puget Sound</b>										
D	14,513	5,852	500	--	--	--	--	4,958	3	3,200
C & B <sup>2</sup>	144,720	21,994	16,801	7,561	100	--	--	40,630	--	57,634
A	701,346	385,753	244,091	11,724	--	--	--	45,358	14,420	--
<b>Total</b>	<b>860,579</b>	<b>413,599</b>	<b>261,392</b>	<b>19,285</b>	<b>100</b>	<b>--</b>	<b>--</b>	<b>90,946</b>	<b>14,423</b>	<b>60,834</b>
<b>Olympic Peninsula</b>										
D	59,512	3,059	26	1	55	--	5	11,907	--	44,459
C	54,000	--	15,200	15,200	--	--	--	23,600	--	--
A	701,087	363,892	293,336	5,920	2,000	--	1,299	20,000	--	14,640
<b>Total</b>	<b>814,599</b>	<b>366,951</b>	<b>308,562</b>	<b>21,121</b>	<b>2,055</b>	<b>--</b>	<b>1,304</b>	<b>55,507</b>	<b>--</b>	<b>59,099</b>
<b>Lower Columbia</b>										
D & C <sup>2</sup>	94,255	12,188	1	--	--	--	--	56	--	82,010
B	107,273	30,312	5,400	9,101	--	61,110	--	1,350	--	--
A	194,483	173,407	21,076	--	--	--	--	--	--	--
<b>Total</b>	<b>396,011</b>	<b>215,907</b>	<b>26,477</b>	<b>9,101</b>	<b>--</b>	<b>61,110</b>	<b>--</b>	<b>1,406</b>	<b>--</b>	<b>82,010</b>
<b>Central Washington</b>										
D, C & B <sup>2</sup>	94,107	13,414	23,205	1,920	684	51,120	2,744	--	1,020	--
A	200,911	36,157	--	21,197	4,204	127,747	2,102	--	9,504	--
<b>Total</b>	<b>295,018</b>	<b>49,571</b>	<b>23,205</b>	<b>23,117</b>	<b>4,888</b>	<b>178,867</b>	<b>4,846</b>	<b>--</b>	<b>10,524</b>	<b>--</b>
<b>Inland Empire</b>										
D	1,151	532	8	40	3	133	325	40	50	20
C	23,200	15,280	--	1,750	--	1,400	700	1,400	2,670	--
B	116,298	25,607	14,350	8,482	10,890	49,311	--	2,918	4,740	--
A	226,518	111,245	9,657	--	5,284	48,893	34,553	6,560	10,326	--
<b>Total</b>	<b>367,167</b>	<b>152,664</b>	<b>24,015</b>	<b>10,272</b>	<b>16,177</b>	<b>99,737</b>	<b>35,578</b>	<b>10,918</b>	<b>17,786</b>	<b>20</b>
<b>Total, State</b>										
D <sup>3,4</sup>	263,538	35,045	23,740	1,961	742	51,253	3,074	16,961	1,073	129,689
C <sup>5</sup>	221,920	37,274	32,001	24,511	100	1,400	700	65,630	2,670	57,634
B	223,571	55,919	19,750	17,583	10,890	110,421	--	4,268	4,740	--
A	2,024,345	1,070,454	568,160	38,841	11,488	176,640	37,954	71,918	34,250	14,640
<b>Total</b>	<b>2,733,374</b>	<b>1,198,692</b>	<b>643,651</b>	<b>82,896</b>	<b>23,220</b>	<b>339,714</b>	<b>41,728</b>	<b>158,777</b>	<b>42,733</b>	<b>201,963</b>

<sup>1</sup>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+.

<sup>2</sup>Combined to avoid disclosure.

<sup>3</sup>Total for Class D includes Class C for Lower Columbia.

<sup>4</sup>Total for Class D includes Class C and Class B for Central Washington.

<sup>5</sup>Total for Class C includes Class B for Puget Sound.

**Table D-26**  
**Log Consumption by Species, by County**  
**(Thousand Board Feet, Scribner Log Rule)**

Economic area and county	All species	Douglas fir	Hemlock	True firs	Spruce	Ponderosa pine	Lodgepole pine	Western redcedar	Other softwoods	Hardwoods
<b>Puget Sound</b>										
Island/Kitsap/San Juan <sup>1</sup>	90,640	90,106	534	--	--	--	--	--	--	--
King	129,419	61,360	53,133	14,724	100	--	--	102	--	--
Pierce	235,136	115,510	93,197	--	--	--	--	--	--	--
Skagit	60,670	33,000	16,500	500	--	--	--	18,154	7,020	1,255
Snohomish	327,382	105,960	95,442	2,510	--	--	--	1,670	--	9,000
Whatcom	17,332	7,663	2,586	1,551	--	--	--	66,867	7,403	49,200
<b>Total</b>	<b>860,579</b>	<b>413,599</b>	<b>261,392</b>	<b>19,285</b>	<b>100</b>	<b>--</b>	<b>--</b>	<b>90,946</b>	<b>14,423</b>	<b>60,834</b>
<b>Olympic Peninsula</b>										
Clallam	42,029	5,058	17,401	1	350	--	--	9,019	--	10,200
Grays Harbor/Jefferson/Pacific <sup>1</sup>	269,511	65,124	164,674	15,200	1,705	--	5	22,803	--	--
Lewis	329,550	148,865	114,800	5,920	--	--	--	12,425	--	47,540
Mason	116,449	90,904	11,687	--	--	--	1,299	11,200	--	1,359
Thurston	57,060	57,000	0	--	--	--	--	60	--	--
<b>Total</b>	<b>814,599</b>	<b>366,951</b>	<b>308,562</b>	<b>21,121</b>	<b>2,055</b>	<b>--</b>	<b>1,304</b>	<b>55,507</b>	<b>--</b>	<b>59,099</b>
<b>Lower Columbia</b>										
Clark	35,255	35,188	1	--	--	--	--	56	--	10
Cowlitz	237,133	138,962	16,171	--	--	--	--	--	--	82,000
Klickitat/Skamania <sup>1</sup>	123,623	41,757	10,305	9,101	--	61,110	--	1,350	--	--
<b>Total</b>	<b>396,011</b>	<b>215,907</b>	<b>26,477</b>	<b>9,101</b>	<b>--</b>	<b>61,110</b>	<b>--</b>	<b>1,406</b>	<b>--</b>	<b>82,010</b>
<b>Central Washington</b>										
Chelan/Okanongan <sup>1</sup>	132,188	18,169	23,205	1,401	4,888	78,659	4,846	--	1,020	--
Yakima	162,830	31,402	--	21,716	--	100,208	--	--	9,504	--
<b>Total</b>	<b>295,018</b>	<b>49,571</b>	<b>23,205</b>	<b>23,117</b>	<b>4,888</b>	<b>178,867</b>	<b>4,846</b>	<b>--</b>	<b>10,524</b>	<b>--</b>
<b>Inland Empire</b>										
Asotin/Walla Walla <sup>1</sup>	62,050	19,157	14,350	5,130	9,183	9,470	--	--	4,740	20
Ferry	65,320	36,759	8	358	1,744	11,634	11,982	1,085	1,750	--
Spokane/Stevens <sup>1</sup>	239,797	96,748	9,657	4,784	5,250	78,633	23,596	9,833	11,296	--
<b>Total</b>	<b>367,167</b>	<b>152,664</b>	<b>24,015</b>	<b>10,272</b>	<b>16,177</b>	<b>99,737</b>	<b>35,578</b>	<b>10,918</b>	<b>17,786</b>	<b>20</b>
<b>Total, State</b>	<b>2,733,374</b>	<b>1,198,692</b>	<b>643,651</b>	<b>82,896</b>	<b>23,220</b>	<b>339,714</b>	<b>41,728</b>	<b>158,777</b>	<b>42,733</b>	<b>201,963</b>

<sup>1</sup>Combined to avoid disclosure.

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**Table D-27**  
**Production and Disposition of Wood and Bark Residues**  
**by Mill Size-Class<sup>1</sup> (Tons, Dry Weight)**

Economic area and mill size- class	All residue			Wood residue			Bark residue		
	Total	Used <sup>2</sup>	Unused	Total	Used <sup>2</sup>	Unused	Total	Used <sup>2</sup>	Unused
<b>Puget Sound</b>									
D	17,875	15,349	2,526	13,601	11,730	1,871	4,274	3,619	655
C & B <sup>3</sup>	228,708	211,199	17,509	174,848	163,370	11,478	53,860	47,829	6,031
A	1,132,941	1,113,478	19,463	887,782	875,686	12,096	245,159	237,792	7,367
<b>Total</b>	<b>1,379,524</b>	<b>1,340,026</b>	<b>39,498</b>	<b>1,076,231</b>	<b>1,050,786</b>	<b>25,445</b>	<b>303,293</b>	<b>289,240</b>	<b>14,053</b>
<b>Olympic Peninsula</b>									
D	79,571	68,008	11,563	59,040	50,178	8,862	20,531	17,830	2,701
C	88,259	88,259	--	67,455	67,455	--	20,804	20,804	--
A	1,218,069	1,195,119	22,950	954,001	940,530	13,471	264,068	254,589	9,479
<b>Total</b>	<b>1,385,899</b>	<b>1,351,386</b>	<b>34,513</b>	<b>1,080,496</b>	<b>1,058,163</b>	<b>22,333</b>	<b>305,403</b>	<b>293,223</b>	<b>12,180</b>
<b>Lower Columbia</b>									
D & C <sup>3</sup>	117,465	117,465	--	88,779	88,779	--	28,686	28,686	--
B	172,042	172,042	--	133,881	133,881	--	38,161	38,161	--
A	417,436	417,436	--	327,705	327,705	--	89,731	89,731	--
<b>Total</b>	<b>706,943</b>	<b>706,943</b>	<b>--</b>	<b>550,365</b>	<b>550,365</b>	<b>--</b>	<b>156,578</b>	<b>156,578</b>	<b>--</b>
<b>Central Washington</b>									
D, C & B <sup>3</sup>	165,125	157,221	7,904	129,906	125,693	4,213	35,219	31,528	3,691
A	329,422	329,422	--	259,410	259,410	--	70,012	70,012	--
<b>Total</b>	<b>494,547</b>	<b>486,643</b>	<b>7,904</b>	<b>389,316</b>	<b>385,103</b>	<b>4,213</b>	<b>105,231</b>	<b>101,540</b>	<b>3,691</b>
<b>Inland Empire</b>									
D	1,577	895	682	1,207	739	468	370	156	214
C	27,765	27,291	474	21,702	21,228	474	6,063	6,063	--
B	187,196	187,196	--	146,032	146,032	--	41,164	41,164	--
A	424,494	424,494	--	334,465	334,465	--	90,029	90,029	--
<b>Total</b>	<b>641,032</b>	<b>639,876</b>	<b>1,156</b>	<b>503,406</b>	<b>502,464</b>	<b>942</b>	<b>137,626</b>	<b>137,412</b>	<b>214</b>
<b>Total, State</b>									
D <sup>4,5</sup>	381,613	358,938	22,675	292,533	277,119	15,414	89,080	81,819	7,261
C <sup>6</sup>	344,732	326,749	17,983	264,005	252,053	11,952	80,727	74,696	6,031
B	359,238	359,238	--	279,913	279,913	--	79,325	79,325	--
A	3,522,362	3,479,949	42,413	2,763,363	2,737,796	25,567	758,999	742,153	16,846
<b>Total</b>	<b>4,607,945</b>	<b>4,524,874</b>	<b>83,071</b>	<b>3,599,814</b>	<b>3,546,881</b>	<b>52,933</b>	<b>1,008,131</b>	<b>977,993</b>	<b>30,138</b>

<sup>1</sup>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+.

<sup>2</sup>Used residues were not necessarily consumed in the economic area in which they were produced.

<sup>3</sup>Combined to avoid disclosure.

<sup>4</sup>Total for Class D includes Class C for Lower Columbia.

<sup>5</sup>Total for Class D includes Class C and Class B for Central Washington.

<sup>6</sup>Total for Class C includes Class B for Puget Sound.



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## Table D-28 Production and Disposition of Wood Residues by Mill Size-Class<sup>1</sup> (Tons, Dry Weight)

Economic area and mill size - class	All Types						
	Total	Total Used <sup>6</sup>	Pulp	Board	Fuel	Other	Unused
<b>Puget Sound</b>							
D	13,601	11,730	3,196	--	1,396	7,138	1,871
C & B <sup>7</sup>	174,848	163,370	34,851	--	67,502	61,017	11,478
A	887,782	875,686	179,713	1,788	507,502	186,683	12,096
<b>Total</b>	<b>1,076,231</b>	<b>1,050,786</b>	<b>217,760</b>	<b>1,788</b>	<b>576,400</b>	<b>254,838</b>	<b>25,445</b>
<b>Olympic Peninsula</b>							
D	59,040	50,178	1,442	--	33,635	15,101	8,862
C	67,455	67,455	24,832	--	42,623	--	--
A	954,001	940,530	359,225	1,026	420,101	160,178	13,471
<b>Total</b>	<b>1,080,496</b>	<b>1,058,163</b>	<b>385,499</b>	<b>1,026</b>	<b>496,359</b>	<b>175,279</b>	<b>22,333</b>
<b>Lower Columbia</b>							
D & C <sup>7</sup>	88,779	88,779	60,648	--	27,910	221	--
B	133,881	133,881	73,213	5,774	54,894	--	--
A	327,705	327,705	99,467	--	228,238	--	--
<b>Total</b>	<b>550,365</b>	<b>550,365</b>	<b>233,328</b>	<b>5,774</b>	<b>311,042</b>	<b>221</b>	<b>--</b>
<b>Central Washington</b>							
D, C & B <sup>7</sup>	129,906	125,693	34,089	--	25,650	65,954	4,213
A	259,410	259,410	89,272	30,052	97,623	42,463	--
<b>Total</b>	<b>389,316</b>	<b>385,103</b>	<b>123,361</b>	<b>30,052</b>	<b>123,273</b>	<b>108,417</b>	<b>4,213</b>
<b>Inland Empire</b>							
D	1,207	739	--	--	32	707	468
C	21,702	21,228	4,268	--	9,768	7,192	474
B	146,032	146,032	35,647	--	42,217	68,168	--
A	334,465	334,465	39,551	15,612	99,052	180,250	--
<b>Total</b>	<b>503,406</b>	<b>502,464</b>	<b>79,466</b>	<b>15,612</b>	<b>151,069</b>	<b>256,317</b>	<b>942</b>
<b>Total, State</b>							
D <sup>8,9</sup>	292,533	277,119	99,375	--	88,623	89,121	15,414
C <sup>10</sup>	264,005	252,053	63,951	--	119,893	68,209	11,952
B	279,913	279,913	108,860	5,774	97,111	68,168	--
A	2,763,363	2,737,796	767,228	48,478	1,352,516	569,574	25,567
<b>Total</b>	<b>3,599,814</b>	<b>3,546,881</b>	<b>1,039,414</b>	<b>54,252</b>	<b>1,658,143</b>	<b>795,072</b>	<b>52,933</b>

<sup>1</sup> 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 - 120,000; A - 120,000+.

<sup>2</sup> Slabs, edgings, trim and spur ends.

<sup>3</sup> The Board column in the "Course" section had no figures and was therefore deleted.

<sup>4</sup> Shavings.

<sup>5</sup> Sawdust.



**Table D-28 (Continued)**  
**Production and Disposition of Wood Residues by Mill Size-Class**  
**(Tons, Dry Weight)**

Course <sup>2,3</sup>					
Total	Total used <sup>6</sup>	Pulp	Fuel	Other	Unused
8,733	7,404	3,196	484	3,724	1,329
104,541	96,388	34,851	37,098	24,439	8,153
500,783	500,783	164,317	242,857	93,609	--
614,057	604,575	202,364	280,439	121,772	9,482
37,744	31,614	815	22,699	8,100	6,130
42,494	42,494	21,204	21,290	--	--
538,999	538,557	156,082	259,398	123,077	442
619,237	612,665	178,101	303,387	131,177	6,572
51,792	51,792	31,200	20,445	147	--
77,949	77,949	61,422	16,527	--	--
183,290	183,290	96,441	86,849	--	--
313,031	313,031	189,063	123,821	147	--
71,942	71,126	25,697	15,535	29,894	816
143,010	143,010	80,632	45,596	16,782	--
214,952	214,136	106,329	61,131	46,676	816
765	324	--	32	292	441
12,383	11,909	4,268	3,689	3,952	474
84,086	84,086	35,647	14,756	33,683	--
183,899	183,899	39,551	45,294	99,054	--
281,133	280,218	79,466	63,771	136,981	915
170,976	162,260	60,908	59,195	42,157	8,716
159,418	150,791	60,323	62,077	28,391	8,627
162,035	162,035	97,069	31,283	33,683	--
1,549,981	1,549,539	537,023	679,994	332,522	442
2,042,410	2,024,625	755,323	832,549	436,753	17,785

<sup>6</sup> Used residues were not necessarily consumed in the economic area in which they were produced.

<sup>7</sup> Combined to avoid disclosure.

<sup>8</sup> Total for Class D includes Class C for Lower Columbia.

<sup>9</sup> Total for Class D includes Class C and Class B for Central Washington.

<sup>10</sup> Total for Class C includes Class B for Puget Sound.

<sup>11</sup> Class B data for Puget Sound is included with Class C Total. Class B data for Central Washington is included with Class D Tot

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**Table D-28 (Continued)  
Production and Disposition of Wood Residues  
by Mill-Size-Class<sup>1</sup> (Tons, Dry Weight)**

Economic area and mill size- class	Medium <sup>4</sup>						
	Total	Total used <sup>6</sup>	Pulp	Board	Fuel	Other	Unused
<b>Puget Sound</b>							
D	1,281	1,281	--	--	456	825	--
C & B <sup>7</sup>	28,375	28,375	--	--	12,691	15,684	--
A	181,317	175,269	11,508	1,788	116,157	45,816	6,048
<b>Total</b>	<b>210,973</b>	<b>204,925</b>	<b>11,508</b>	<b>1,788</b>	<b>129,304</b>	<b>62,325</b>	<b>6,048</b>
<b>Olympic Peninsula</b>							
D	6,537	6,067	--	--	6,059	8	470
C	7,546	7,546	--	--	7,546	--	--
A	194,154	189,060	76,108	1,026	86,399	25,527	5,094
<b>Total</b>	<b>208,237</b>	<b>202,673</b>	<b>76,108</b>	<b>1,026</b>	<b>100,004</b>	<b>25,535</b>	<b>5,564</b>
<b>Lower Columbia</b>							
D & C <sup>7</sup>	16,906	16,906	14,032	--	2,860	14	--
B	23,983	23,983	--	5,774	18,209	--	--
A	69,291	69,291	3,026	--	66,265	--	--
<b>Total</b>	<b>110,180</b>	<b>110,180</b>	<b>17,058</b>	<b>5,774</b>	<b>87,334</b>	<b>14</b>	<b>--</b>
<b>Central Washington</b>							
D, C & B <sup>7</sup>	28,480	25,752	--	--	--	25,752	2,728
A	57,785	57,785	--	30,052	2,052	25,681	--
<b>Total</b>	<b>86,265</b>	<b>83,537</b>	<b>--</b>	<b>30,052</b>	<b>2,052</b>	<b>51,433</b>	<b>2,728</b>
<b>Inland Empire</b>							
D	131	130	--	--	--	130	1
C	4,243	4,243	--	--	2,623	1,620	--
B	27,484	27,484	--	--	6,804	20,680	--
A	75,195	75,195	--	14,904	19,693	40,598	--
<b>Total</b>	<b>107,053</b>	<b>107,052</b>	<b>--</b>	<b>14,904</b>	<b>29,120</b>	<b>63,028</b>	<b>1</b>
<b>Total, State</b>							
D <sup>8,9</sup>	53,335	50,136	14,032	--	9,375	26,729	3,199
C <sup>10</sup>	40,164	40,164	--	--	22,860	17,304	--
B	51,467	51,467	--	5,774	25,013	20,680	--
A	577,742	566,600	90,642	47,770	290,566	137,622	11,142
<b>Total</b>	<b>722,708</b>	<b>708,367</b>	<b>104,674</b>	<b>53,544</b>	<b>347,814</b>	<b>202,335</b>	<b>14,341</b>

**Table D-28 (Continued)**  
**Production and Disposition of Wood Residues**  
**by Mill Size-Class<sup>1</sup> (Tons, Dry Weight)**

Fine <sup>5</sup>						
Total	Total used <sup>6</sup>	Pulp	Board	Fuel	Other	Unused
3,587	3,045	--	--	456	2,589	542
41,932	38,607	--	--	17,713	20,894	3,325
205,682	199,634	3,888	--	148,488	47,258	6,048
251,201	241,286	3,888	--	166,657	70,741	9,915
14,759	12,497	627	--	4,877	6,993	2,262
17,415	17,415	3,628	--	13,787	--	--
220,848	212,913	127,035	--	74,304	11,574	7,935
253,022	242,825	131,290	--	92,968	18,567	10,197
20,081	20,081	15,416	--	4,605	60	--
31,949	31,949	11,791	--	20,158	--	--
75,124	75,124	--	--	75,124	--	--
127,154	127,154	27,207	--	99,887	60	--
29,484	28,815	8,392	--	10,115	10,308	669
58,615	58,615	8,640	--	49,975	--	--
88,099	87,430	17,032	--	60,090	10,308	669
311	285	--	--	--	285	26
5,076	5,076	--	--	3,456	1,620	--
34,462	34,462	--	--	20,657	13,805	--
75,371	75,371	--	708	34,065	40,598	--
115,220	115,194	--	708	58,178	56,308	26
68,222	64,723	24,435	--	20,053	20,235	3,499
64,423	61,098	3,628	--	34,956	22,514	3,325
66,411	66,411	11,791	--	40,815	13,805	--
635,640	621,657	139,563	708	381,956	99,430	13,983
834,696	813,889	179,417	708	477,780	155,984	20,807

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**Table D-29  
Production and Disposition  
of Bark Residues by Mill Size-Class<sup>1</sup> (Tons, Dry Weight)**

Economic area and mill size- class	Used <sup>2</sup>						Unused
	Total	Total used	Pulp	Board	Fuel	Other	
<b>Puget Sound</b>							
D	4,274	3,619	--	--	817	2,802	655
C & B <sup>3</sup>	53,860	47,829	--	--	21,454	26,375	6,031
A	245,159	237,792	--	--	159,469	78,323	7,367
<b>Total</b>	<b>303,293</b>	<b>289,240</b>	<b>--</b>	<b>--</b>	<b>181,740</b>	<b>107,500</b>	<b>14,053</b>
<b>Olympic Peninsula</b>							
D	20,531	17,830	--	--	2,942	14,888	2,701
C	20,804	20,804	--	--	16,470	4,334	--
A	264,068	254,589	--	--	203,815	50,774	9,479
<b>Total</b>	<b>305,403</b>	<b>293,223</b>	<b>--</b>	<b>--</b>	<b>223,227</b>	<b>69,996</b>	<b>12,180</b>
<b>Lower Columbia</b>							
D & C3	28,686	28,686	17,680	--	10,935	71	--
B	38,161	38,161	--	--	38,161	--	--
A	89,731	89,731	--	--	89,761	--	--
<b>Total</b>	<b>156,578</b>	<b>156,578</b>	<b>17,680</b>	<b>--</b>	<b>138,827</b>	<b>71</b>	<b>--</b>
<b>Central Washington</b>							
D, C & B3	35,219	31,528	--	--	9,927	21,601	3,691
A	70,012	70,012	--	--	60,478	9,534	--
<b>Total</b>	<b>105,231</b>	<b>101,540</b>	<b>--</b>	<b>--</b>	<b>70,405</b>	<b>31,135</b>	<b>3,691</b>
<b>Inland Empire</b>							
D	370	156	--	--	15	141	214
C	6,063	6,063	--	--	4,128	1,935	--
B	41,164	41,164	--	--	24,674	16,490	--
A	90,029	90,029	--	--	41,537	48,492	--
<b>Total</b>	<b>137,626</b>	<b>137,412</b>	<b>--</b>	<b>--</b>	<b>70,354</b>	<b>67,058</b>	<b>214</b>
<b>Total, State</b>							
D <sup>4,5</sup>	89,080	81,819	17,680	--	24,636	39,503	7,261
C <sup>6</sup>	80,727	74,696	--	--	42,052	32,644	6,031
B	79,325	79,325	--	--	62,835	16,490	--
A	758,999	742,153	--	--	555,030	187,123	16,846
<b>Total</b>	<b>1,008,131</b>	<b>977,993</b>	<b>17,680</b>	<b>--</b>	<b>684,553</b>	<b>275,760</b>	<b>30,138</b>

<sup>1</sup>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+.

<sup>2</sup>Used residues were not necessarily consumed in the economic area in which they were produced.

<sup>3</sup>Combined to avoid disclosure.

<sup>4</sup>Total for Class D includes Class C for Lower Columbia.

<sup>5</sup>Total for Class D includes Class C and Class B for Central Washington.

<sup>6</sup>Total for Class C includes Class B for Puget Sound.

**Table D-30**  
**Production and Disposition of Wood and Bark Residues**  
**by County (Tons, Dry Weight)**

Economic area and county	All residue			Wood residue			Bark residue		
	Total	Used <sup>1</sup>	Unused	Total	Used <sup>1</sup>	Unused	Total	Used <sup>1</sup>	Unused
<b>Puget Sound</b>									
Island/Kitsap/San Juan <sup>2</sup>	202,294	202,294	--	159,389	159,389	--	42,905	42,905	--
King	240,748	240,737	11	188,453	188,445	8	52,295	52,292	3
Pierce	281,855	252,250	29,605	221,397	197,823	23,574	60,458	54,427	6,031
Skagit	122,943	120,441	2,502	96,018	94,161	1,857	26,925	26,280	645
Snohomish	502,970	495,590	7,380	388,568	388,562	6	114,402	107,028	7,374
Whatcom	28,714	28,714	--	22,406	22,406	--	6,308	6,308	--
<b>Total</b>	<b>1,379,524</b>	<b>1,340,026</b>	<b>39,498</b>	<b>1,076,231</b>	<b>1,050,786</b>	<b>25,445</b>	<b>303,293</b>	<b>289,240</b>	<b>14,053</b>
<b>Olympic Peninsula</b>									
Clallam	65,671	54,342	11,329	50,737	42,093	8,644	14,934	12,249	2,685
Grays Harbor/Jefferson/ Pacific <sup>2</sup>	416,811	416,795	16	325,043	325,027	16	91,768	91,768	--
Lewis	548,204	547,544	660	425,980	425,336	644	122,224	122,208	16
Mason	236,228	213,720	22,508	185,317	172,288	13,029	50,911	41,432	9,479
Thurston	118,985	118,985	--	93,419	93,419	--	25,566	25,566	--
<b>Total</b>	<b>1,385,899</b>	<b>1,351,386</b>	<b>34,513</b>	<b>1,080,496</b>	<b>1,058,163</b>	<b>22,333</b>	<b>305,403</b>	<b>293,223</b>	<b>12,180</b>
<b>Lower Columbia</b>									
Clark	85,507	85,507	--	67,369	67,369	--	18,138	18,138	--
Cowlitz	416,526	416,526	--	323,418	323,418	--	93,108	93,108	--
Klickitat/Skamania <sup>2</sup>	10	214,910	--	169,578	169,578	--	45,332	45,332	--
<b>Total</b>	<b>708,943</b>	<b>706,943</b>	<b>--</b>	<b>550,365</b>	<b>550,365</b>	<b>--</b>	<b>156,578</b>	<b>156,578</b>	<b>--</b>
<b>Central Washington</b>									
Chelan/Okanogan <sup>2</sup>	223,186	215,282	7,904	175,780	171,567	4,213	47,406	43,715	3,691
Yakima	271,361	271,361	--	213,536	213,536	--	57,825	57,825	--
<b>Total</b>	<b>494,547</b>	<b>486,643</b>	<b>7,904</b>	<b>389,316</b>	<b>385,103</b>	<b>4,213</b>	<b>105,231</b>	<b>101,540</b>	<b>3,691</b>
<b>Inland Empire</b>									
Asotin/Walla Walla <sup>2</sup>	111,909	111,981	28	88,182	88,161	21	23,727	23,720	7
Ferry	110,057	109,583	474	86,541	86,067	474	23,516	23,516	--
Spokane/Stevens <sup>2</sup>	419,066	418,412	654	328,683	328,236	447	90,383	90,176	207
<b>Total</b>	<b>641,032</b>	<b>639,876</b>	<b>1,156</b>	<b>503,406</b>	<b>502,464</b>	<b>942</b>	<b>137,626</b>	<b>137,412</b>	<b>214</b>
<b>Total, State</b>	<b>4,607,945</b>	<b>4,524,874</b>	<b>83,071</b>	<b>3,599,814</b>	<b>3,546,881</b>	<b>52,933</b>	<b>1,008,131</b>	<b>977,993</b>	<b>30,138</b>

<sup>1</sup>Used residues were not necessarily consumed in the area or county in which they were produced.

<sup>2</sup>Combined to avoid disclosure.

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**Table D-31  
Production and Disposition of Wood Residues by County  
(Tons, Dry Weight)**

Economic area and county	All types							Total	Total used <sup>5</sup>
	Total	Total used <sup>5</sup>	Pulp	Board	Fuel	Other	Unused		
<b>Puget Sound</b>									
Island/Kitsap/San Juan <sup>6</sup>	159,389	159,389	3,162	--	153,440	2,787	--	87,640	87,640
King	188,453	188,445	13,702	--	156,923	17,820	8	106,825	106,819
Pierce	221,397	197,823	48,811	--	115,233	33,779	23,574	123,347	115,194
Skagit	96,018	94,161	5,676	1,788	19,303	67,394	1,857	54,147	52,830
Snohomish	388,568	388,562	133,711	--	130,458	124,393	6	229,341	229,335
Whatcom	22,406	22,406	12,698	--	1,043	8,665	--	12,757	12,757
<b>Total</b>	<b>1,076,231</b>	<b>1,050,786</b>	<b>217,760</b>	<b>1,788</b>	<b>576,400</b>	<b>254,838</b>	<b>25,445</b>	<b>614,057</b>	<b>604,575</b>
<b>Olympic Peninsula</b>									
Clallam	50,737	42,093	--	--	41,410	683	8,644	30,508	24,580
Grays Harbor/Jefferson Pacific <sup>6</sup>	325,045	325,027	30,519	--	289,738	4,770	16	187,448	187,432
Lewis	425,980	425,336	311,841	--	99,173	14,322	644	245,191	244,563
Mason	185,317	172,288	38,873	--	29,029	104,386	13,029	103,866	103,866
Thurston	93,419	93,419	4,266	1,026	37,009	51,118	--	52,224	52,224
<b>Total</b>	<b>1,080,496</b>	<b>1,058,163</b>	<b>385,499</b>	<b>1,026</b>	<b>496,359</b>	<b>175,279</b>	<b>22,333</b>	<b>619,237</b>	<b>612,665</b>
<b>Lower Columbia</b>									
Clark	67,369	67,369	--	--	67,148	221	--	37,050	37,050
Cowlitz	323,418	323,418	157,089	--	166,329	--	--	183,382	183,392
Klickitat/Skamania <sup>6</sup>	159,578	159,578	76,239	5,774	77,565	--	--	92,599	92,599
<b>Total</b>	<b>550,365</b>	<b>550,365</b>	<b>233,328</b>	<b>5,774</b>	<b>311,042</b>	<b>221</b>	<b>--</b>	<b>313,031</b>	<b>313,031</b>
<b>Central Washington</b>									
Chelan/Okanogan <sup>6</sup>	175,780	171,567	62,754	--	35,853	72,960	4,213	96,836	96,020
Yakima	213,536	213,536	60,607	30,052	87,420	35,457	--	118,116	118,116
<b>Total</b>	<b>389,316</b>	<b>385,103</b>	<b>123,361</b>	<b>30,052</b>	<b>123,273</b>	<b>108,417</b>	<b>4,213</b>	<b>214,952</b>	<b>214,136</b>
<b>Inland Empire</b>									
Asotin/Walla Walla <sup>6</sup>	88,182	88,161	--	--	27,608	60,553	21	48,466	48,451
Ferry	86,541	86,067	4,268	15,612	66,051	136	474	48,034	47,560
Spokane/Stevens <sup>6</sup>	328,683	328,236	75,198	--	57,410	195,628	447	184,633	184,207
<b>Total</b>	<b>503,406</b>	<b>502,464</b>	<b>79,466</b>	<b>15,612</b>	<b>151,069</b>	<b>256,317</b>	<b>942</b>	<b>281,133</b>	<b>280,218</b>
<b>Total, State</b>	<b>3,599,814</b>	<b>3,546,881</b>	<b>1,039,414</b>	<b>54,252</b>	<b>1,658,143</b>	<b>795,072</b>	<b>52,933</b>	<b>2,042,410</b>	<b>2,024,625</b>

<sup>1</sup>Coarse residue includes slab, edgings, sawmill trim, and planer trim.

<sup>2</sup>The Board column under "Coarse" has been deleted because no figures were reported.

<sup>3</sup>Medium residue is planer shavings.

<sup>4</sup>Fine residue is sawdust.

<sup>5</sup>Used residues were not necessarily consumed in the economic area in which they were produced.

<sup>6</sup>Combined to avoid disclosure.

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**Table D-31 (Continued)**  
**Production and Disposition of Wood Residues by County**  
**(Tons, Dry Weight)**

Coarse <sup>1,2</sup>				Medium <sup>3</sup>					
Pulp	Fuel	Other	Unused	Total	Total used <sup>5</sup>	Pulp	Board	Fuel	Other
3,162	84,320	158	--	35,829	35,829	--	--	34,560	1,269
13,702	87,082	6,035	6	37,837	37,837	--	--	34,312	3,525
48,811	41,284	25,099	8,153	47,520	41,472	--	--	34,441	7,031
--	9,873	42,957	1,317	19,822	19,822	1,788	1,788	3,576	12,670
123,991	57,873	47,471	6	65,521	65,521	9,720	--	22,415	33,386
12,698	7	52	--	4,444	4,444	--	--	--	4,444
<b>202,364</b>	<b>280,439</b>	<b>121,772</b>	<b>9,482</b>	<b>210,973</b>	<b>204,925</b>	<b>11,508</b>	<b>1,788</b>	<b>129,304</b>	<b>62,325</b>
--	24,100	480	5,928	7,727	7,529	--	--	7,256	3
16,427	170,997	8	16	60,768	60,768	--	--	56,016	4,752
152,006	84,997	7,560	628	81,047	81,045	75,082	--	5,963	--
9,668	--	94,198	--	38,905	33,811	--	--	28,717	5,094
--	23,293	28,931	--	19,790	19,790	1,026	1,026	2,052	15,686
<b>178,101</b>	<b>303,387</b>	<b>131,177</b>	<b>6,572</b>	<b>208,237</b>	<b>202,673</b>	<b>76,108</b>	<b>1,026</b>	<b>100,004</b>	<b>25,535</b>
--	36,903	147	--	15,134	15,134	--	--	15,120	14
127,641	55,741	--	--	66,020	66,020	14,032	--	51,988	--
61,422	31,177	--	--	29,026	29,026	3,026	5,774	20,226	--
<b>189,063</b>	<b>123,821</b>	<b>147</b>	<b>--</b>	<b>110,180</b>	<b>110,180</b>	<b>17,058</b>	<b>5,774</b>	<b>87,334</b>	<b>14</b>
54,362	15,535	26,123	816	39,257	36,529	--	--	--	36,529
51,967	45,596	20,553	--	47,008	47,008	--	30,052	2,052	14,904
<b>106,329</b>	<b>61,131</b>	<b>46,676</b>	<b>816</b>	<b>86,265</b>	<b>83,537</b>	<b>--</b>	<b>30,052</b>	<b>2,052</b>	<b>51,433</b>
--	14,756	33,695	15	19,853	19,853	--	--	6,804	13,049
4,268	43,213	79	474	18,821	18,821	--	14,904	3,892	25
75,198	5,802	103,207	426	68,379	68,378	--	--	18,424	49,954
<b>79,466</b>	<b>63,771</b>	<b>136,981</b>	<b>915</b>	<b>107,053</b>	<b>107,052</b>	<b>--</b>	<b>14,904</b>	<b>29,120</b>	<b>63,028</b>
<b>755,323</b>	<b>832,549</b>	<b>436,753</b>	<b>17,785</b>	<b>722,708</b>	<b>708,367</b>	<b>104,674</b>	<b>53,544</b>	<b>347,814</b>	<b>202,335</b>

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**Table D-31 (Continued)**  
**Production and Disposition of Wood Residues by County**  
**(Tons, Dry Weight)**

Economic area and county	Fine <sup>4</sup>							
	Unused	Total	Total used <sup>5</sup>	Pulp	Board	Fuel	Other	Unused
<b>Puget Sound</b>								
Island/Kitsap/San Juan <sup>6</sup>	--	35,920	35,920	--	--	34,560	1,360	--
King	--	43,791	43,789	--	--	35,529	8,260	2
Pierce	6,048	50,530	41,157	--	--	39,508	1,649	9,373
Skagit	--	22,049	21,509	3,888	--	5,854	11,767	540
Snohomish	--	93,706	93,706	--	--	50,170	43,536	0
Whatcom	--	5,205	5,205	--	--	1,036	4,169	0
<b>Total</b>	<b>6,048</b>	<b>251,201</b>	<b>241,286</b>	<b>3,888</b>	<b>--</b>	<b>166,657</b>	<b>70,741</b>	<b>9,915</b>
<b>Olympic Peninsula</b>								
Clallam	468	12,502	10,254	--	--	10,054	200	2,248
Grays Harbor/Jefferson	--	76,827	76,827	14,092	--	62,725	10	--
Pacific <sup>6</sup>	2	99,742	99,728	84,753	--	8,213	6,762	14
Lewis	5,094	42,546	34,611	29,205	--	312	5,094	7,935
Mason	--	21,405	21,405	3,240	--	11,664	6,501	--
Thurston	--	21,405	21,405	3,240	--	11,664	6,501	--
<b>Total</b>	<b>5,564</b>	<b>253,022</b>	<b>242,825</b>	<b>131,290</b>	<b>--</b>	<b>92,968</b>	<b>18,567</b>	<b>10,197</b>
<b>Lower Columbia</b>								
Clark	--	15,185	15,185	--	--	15,125	60	--
Cowlitz	--	74,016	74,016	15,416	--	58,600	--	--
Klickitat/Skamania <sup>6</sup>	--	37,953	37,953	11,791	--	26,162	--	--
<b>Total</b>	<b>--</b>	<b>127,154</b>	<b>127,154</b>	<b>27,207</b>	<b>--</b>	<b>99,887</b>	<b>60</b>	<b>--</b>
<b>Central Washington</b>								
Chelan/Okanogan <sup>6</sup>	2,728	39,687	39,018	8,392	--	20,318	10,308	669
Yakima	--	48,412	48,412	8,640	--	39,772	--	--
<b>Total</b>	<b>2,728</b>	<b>88,099</b>	<b>87,430</b>	<b>17,032</b>	<b>--</b>	<b>60,090</b>	<b>10,308</b>	<b>669</b>
<b>Inland Empire</b>								
Asotin/Walla Walla <sup>6</sup>	--	19,863	19,857	--	--	6,048	13,809	6
Ferry	--	19,686	19,686	--	708	18,946	32	--
Spokane/Stevens <sup>6</sup>	1	75,671	75,651	--	--	33,184	42,467	20
<b>Total</b>	<b>1</b>	<b>115,220</b>	<b>115,194</b>	<b>--</b>	<b>708</b>	<b>58,178</b>	<b>56,308</b>	<b>26</b>
<b>Total, State</b>	<b>14,341</b>	<b>834,696</b>	<b>813,889</b>	<b>179,417</b>	<b>708</b>	<b>477,780</b>	<b>155,984</b>	<b>20,807</b>



**Table D-32**  
**Production and Disposition of Bark Residues**  
**by County (Tons, Dry Weight)**

Economic area and county	All Bark	Used <sup>1</sup>					Unused
		Total	Pulp	Board	Fuel	Other	
<b>Puget Sound</b>							
Island/Kitsap/San Juan <sup>2</sup>	42,905	42,905	--	--	41,357	1,548	--
King	52,295	52,292	--	--	42,630	9,662	3
Pierce	60,458	54,427	--	--	42,140	12,287	6,031
Skagit	26,925	26,280	--	--	5,229	21,051	645
Snohomish	114,402	107,028	--	--	45,357	61,671	7,374
Whatcom	6,308	6,308	--	--	5,027	1,281	--
<b>Total</b>	<b>303,293</b>	<b>289,240</b>	<b>--</b>	<b>--</b>	<b>181,740</b>	<b>107,500</b>	<b>14,053</b>
<b>Olympic Peninsula</b>							
Clallam	14,934	12,249	--	--	12,014	235	2,685
Grays Harbor/Jefferson/ Pacific <sup>2</sup>	91,768	91,768	--	--	91,756	12	--
Lewis	122,224	122,208	--	--	107,592	14,616	16
Mason	50,911	41,432	--	--	462	40,970	9,479
Thurston	25,566	25,566	--	--	11,403	14,163	--
<b>Total</b>	<b>305,403</b>	<b>293,223</b>	<b>--</b>	<b>--</b>	<b>223,227</b>	<b>69,996</b>	<b>12,180</b>
<b>Lower Columbia</b>							
Clark	18,138	18,138	--	--	18,067	71	--
Cowlitz	93,108	93,108	17,680	--	75,428	--	--
Klickitat/Skamania <sup>2</sup>	45,332	45,332	--	--	45,332	--	--
<b>Total</b>	<b>156,578</b>	<b>156,578</b>	<b>17,680</b>	<b>--</b>	<b>138,827</b>	<b>71</b>	<b>--</b>
<b>Central Washington</b>							
Chelan/Okanogan <sup>2</sup>	47,406	43,715	--	--	31,402	12,313	3,691
Yakima	57,825	57,825	--	--	39,003	18,822	--
<b>Total</b>	<b>105,231</b>	<b>101,540</b>	<b>--</b>	<b>--</b>	<b>70,405</b>	<b>31,135</b>	<b>3,691</b>
<b>Inland Empire</b>							
Asotin/Walla Walla <sup>2</sup>	23,727	23,720	--	--	7,224	16,496	7
Ferry	23,516	23,516	--	--	23,478	38	--
Spokane/Stevens <sup>2</sup>	90,383	90,176	--	--	39,652	50,524	207
<b>Total</b>	<b>137,626</b>	<b>137,412</b>	<b>--</b>	<b>--</b>	<b>70,354</b>	<b>67,058</b>	<b>214</b>
<b>Total, State</b>	<b>1,008,131</b>	<b>977,993</b>	<b>17,680</b>	<b>--</b>	<b>684,553</b>	<b>275,760</b>	<b>30,138</b>

<sup>1</sup>Used residues were not necessarily consumed in the economic area in which they were produced.

<sup>2</sup>Combined to avoid disclosure.

# SAWMILLS 1986

**Table D-33**  
**Degree of Lumber Manufacture**  
**(Thousand Board Feet, Lumber Tally)**

Economic area and mill size-class <sup>1</sup>	Green	Kiln-dried	Air-dried	Total	Rough	Surfaced
<b>Puget Sound</b>						
D	14,331	2,116	191	16,638	10,692	5,946
C & B <sup>2</sup>	108,799	81,593	--	190,392	59,740	130,652
A	579,122	373,137	--	952,259	112,781	839,478
<b>Total</b>	<b>702,252</b>	<b>456,846</b>	<b>191</b>	<b>1,159,289</b>	<b>183,213</b>	<b>976,076</b>
<b>Olympic Peninsula</b>						
D	37,804	27,659	11	65,474	35,709	29,765
C	80,638	--	--	80,638	45,700	34,938
A	512,842	509,350	--	1,022,192	123,365	898,827
<b>Total</b>	<b>631,284</b>	<b>537,009</b>	<b>11</b>	<b>1,168,304</b>	<b>204,774</b>	<b>963,530</b>
<b>Lower Columbia</b>						
D & C <sup>2</sup>	38,880	49,424	--	88,304	11,236	77,068
B	27,135	86,591	34,192	147,918	36,882	111,036
A	275,838	71,962	--	347,800	26,998	320,802
<b>Total</b>	<b>341,853</b>	<b>207,977</b>	<b>34,192</b>	<b>584,022</b>	<b>75,116</b>	<b>508,906</b>
<b>Central Washington</b>						
D, C & B <sup>2</sup>	11,485	123,725	1,306	136,516	4,657	131,859
A	20,000	251,374	--	271,374	3,844	267,530
<b>Total</b>	<b>31,485</b>	<b>375,099</b>	<b>1,306</b>	<b>407,890</b>	<b>8,501</b>	<b>399,389</b>
<b>Inland Empire</b>						
D	1,296	--	163	1,459	839	620
C	15,500	--	8,000	23,500	3,850	19,650
B	32,310	127,249	--	159,559	32,310	127,249
A	820	344,860	3,280	348,960	820	348,140
<b>Total</b>	<b>49,926</b>	<b>472,109</b>	<b>11,443</b>	<b>533,478</b>	<b>37,819</b>	<b>495,659</b>
<b>Total, State</b>						
D <sup>3,4</sup>	103,796	202,924	1,671	308,391	63,133	245,258
C <sup>5</sup>	204,937	81,593	8,000	294,530	109,290	185,240
B	59,445	213,840	34,192	307,477	69,192	238,285
A	1,388,622	1,550,683	3,280	2,942,585	267,808	2,674,777
<b>Total</b>	<b>1,756,800</b>	<b>2,049,040</b>	<b>47,143</b>	<b>3,852,983</b>	<b>509,423</b>	<b>3,343,560</b>

<sup>1</sup>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+.

<sup>2</sup>Combined to avoid disclosure.

<sup>3</sup>Total for Class D includes Class C for Lower Columbia.

<sup>4</sup>Total for Class D includes Class C and Class B for Central Washington.

<sup>5</sup>Total for Class C includes Class B for Puget Sound.

# SAWMILLS 1986

**Table D-34**  
**Lumber Production by Headrig Type,**  
**by Mill Size-Class<sup>1</sup> (Thousand Board Feet, Lumber Tally)**

Economic area and mill size- class	All types	Circular saw	Band saw	Gang saw	Chipping saw	Scagg double cut saw
<b>Puget Sound</b>						
D	16,638	14,522	2,116	--	--	--
C & B <sup>2</sup>	190,392	31,853	131,003	--	16,100	11,436
A	952,259	--	766,928	--	138,581	46,750
Total	1,159,289	46,375	900,047	--	154,681	58,186
<b>Olympic Peninsula</b>						
D	65,474	22,259	27,315	--	14,700	1,200
C	80,638	23,438	57,200	--	--	--
A	1,022,192	--	656,388	--	286,999	78,805
Total	1,168,304	45,697	740,903	--	301,699	80,005
<b>Lower Columbia</b>						
D & C <sup>2</sup>	88,304	304	88,000	--	--	--
B	147,918	--	125,123	--	--	22,795
A	347,800	--	278,190	5,560	64,050	--
Total	584,022	304	491,313	5,560	64,050	22,795
<b>Central Washington</b>						
D, C & B <sup>2</sup>	136,516	30	135,976	--	510	--
A	271,374	--	198,562	--	72,812	--
Total	407,890	30	334,538	--	73,322	--
<b>Inland Empire</b>						
D	1,459	1,409	50	--	--	--
C	23,500	19,900	--	--	--	3,600
B	159,559	--	159,559	--	--	--
A	348,960	36,509	271,451	--	--	41,000
Total	533,478	57,818	431,060	--	--	44,600
<b>Total, State</b>						
D <sup>3,4</sup>	308,391	38,524	253,457	--	15,210	1,200
C <sup>5</sup>	294,530	75,191	188,203	--	16,100	15,036
B	307,477	--	284,682	--	--	22,795
A	2,942,585	36,509	2,171,519	5,560	562,442	166,555
Total	3,852,983	150,224	2,897,861	5,560	593,752	205,586

<sup>1</sup>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+.

<sup>2</sup>Combined to avoid disclosure.

<sup>3</sup>Total for Class D includes Class C for Lower Columbia.

<sup>4</sup>Total for Class D includes Class C and Class B for Central Washington.

<sup>5</sup>Total for Class C includes Class B for Puget Sound.

# SAWMILLS 1986

**Table D-35  
Lumber Production by Headrig Type,  
by County (Thousand Board Feet, Lumber Tally)**

Economic area and county	All types	Circular saw	Band saw	Gang saw	Chipping saw	Scagg double cut saw
<b>Puget Sound</b>						
Island/Kitsap/San Juan <sup>1</sup>	166,300	300	166,000	--	--	--
King	202,755	762	201,993	--	--	--
Pierce	233,841	11,437	85,936	--	78,282	58,186
Skagit	101,500	2,500	67,500	--	31,500	--
Snohomish	430,875	31,261	354,715	--	44,899	--
Whatcom	24,018	115	23,903	--	--	--
<b>Total</b>	<b>1,159,289</b>	<b>46,375</b>	<b>900,047</b>	<b>--</b>	<b>154,681</b>	<b>58,186</b>
<b>Olympic Peninsula</b>						
Clallam	57,895	14,695	25,200	--	16,800	1,200
Grays Harbor/Jefferson/ Pacific <sup>1</sup>	355,697	4,955	234,800	--	115,942	--
Lewis	458,708	24,603	340,600	--	14,700	78,805
Mason	196,904	1,359	90,288	--	105,257	--
Thurston	99,100	85	50,015	--	49,000	--
<b>Total</b>	<b>1,168,304</b>	<b>45,697</b>	<b>740,903</b>	<b>--</b>	<b>301,699</b>	<b>80,005</b>
<b>Lower Columbia</b>						
Clark	70,304	304	70,000	--	--	--
Cowlitz	338,000	--	273,950	--	64,050	--
Klickitat/Skamania <sup>1</sup>	175,718	--	147,363	5,560	--	22,795
<b>Total</b>	<b>584,022</b>	<b>304</b>	<b>491,313</b>	<b>5,560</b>	<b>64</b>	<b>22,795</b>
<b>Central Washington</b>						
Chelan/Okanogan <sup>1</sup>	183,755	30	183,215	--	510	--
Yakima	224,135	--	151,323	--	72,812	--
<b>Total</b>	<b>407,890</b>	<b>30</b>	<b>334,538</b>	<b>--</b>	<b>73,322</b>	<b>--</b>
<b>Asotin/Walla Walla<sup>1</sup></b>						
Ferry	91,966	50	91,916	--	--	--
Spokane/Stevens <sup>1</sup>	91,150	5,550	41,000	--	--	44,600
<b>Total</b>	<b>350,362</b>	<b>52,218</b>	<b>298,144</b>	<b>--</b>	<b>--</b>	<b>--</b>
<b>Total</b>	<b>533,478</b>	<b>57,818</b>	<b>431,060</b>	<b>--</b>	<b>--</b>	<b>44,600</b>
<b>Total, State</b>	<b>3,852,983</b>	<b>150,224</b>	<b>2,897,861</b>	<b>5,560</b>	<b>593,752</b>	<b>205,586</b>

<sup>1</sup>Combined to avoid disclosure.



# VENEER AND PLYWOOD MILLS 1986

## Table D-36 Number of Veneer and Plywood Mills

Economic area and county	All types	Veneer only	Layup only	Veneer and layup
<b>Puget Sound</b>				
King	1	--	--	1
Pierce	3	--	2	1
Skagit	1	--	1	--
Snohomish	1	1	--	--
Whatcom	1	--	--	1
<b>Total</b>	<b>7</b>	<b>1</b>	<b>3</b>	<b>3</b>
<b>Olympic Peninsula</b>				
Clallam	2	1	--	1
Grays Harbor	2	--	1	1
Lewis	2	2	--	--
Mason	1	--	--	1
Thurston	3	1	2	--
<b>Total</b>	<b>10</b>	<b>4</b>	<b>3</b>	<b>3</b>
<b>Lower Columbia</b>				
Clark	1	--	--	1
Cowlitz	1	1	--	--
Klickitat	1	--	--	1
Skamania	1	--	--	1
<b>Total</b>	<b>4</b>	<b>1</b>	<b>--</b>	<b>3</b>
<b>Central Washington</b>				
Kittitas	1	1	--	--
Okanogan	2	1	--	1
Yakima	1	--	--	1
<b>Total</b>	<b>4</b>	<b>2</b>	<b>--</b>	<b>2</b>
<b>Inland Empire</b>				
Stevens	1	--	--	1
<b>Total</b>	<b>1</b>	<b>--</b>	<b>--</b>	<b>1</b>
<b>Total, State</b>	<b>26</b>	<b>8</b>	<b>6</b>	<b>12</b>

# VENEER AND PLYWOOD MILLS 1986

**Table D-37**  
**Installed Eight-Hour Single-Shift Capacity**  
**(Thousand Square Feet, 3/8-Inch Basis)**

Economic area and county	Type of operation			
	Veneer only	Layup only	Veneer and layup	
			Veneer	Layup
<b>Puget Sound</b>				
King	--	--	200	175
Pierce	--	285	75	130
Skagit	--	150	--	--
Snohomish	90	--	--	--
Whatcom	--	--	170	133
<b>Total</b>	<b>90</b>	<b>435</b>	<b>445</b>	<b>438</b>
<b>Olympic Peninsula</b>				
Clallam	88	--	190	180
Grays Harbor	--	225	35	35
Lewis	205	--	--	--
Mason	--	--	144	120
Thurston	60	1,005	--	--
<b>Total</b>	<b>353</b>	<b>1,230</b>	<b>369</b>	<b>335</b>
<b>Lower Columbia</b>				
Clark	--	--	350	250
Cowlitz	168	--	--	--
Klickitat	--	--	300	105
Skamania	--	--	150	150
<b>Total</b>	<b>168</b>	<b>--</b>	<b>800</b>	<b>505</b>
<b>Central Washington</b>				
Kittitas	240	--	--	--
Okanogan	100	--	262	262
Yakima	--	--	217	217
<b>Total</b>	<b>340</b>	<b>--</b>	<b>479</b>	<b>479</b>
<b>Inland Empire</b>				
Stevens	--	--	256	160
<b>Total</b>	<b>--</b>	<b>--</b>	<b>256</b>	<b>160</b>
<b>Total, State</b>	<b>951</b>	<b>1,665</b>	<b>2,349</b>	<b>1,917</b>

# VENEER AND PLYWOOD MILLS 1986

**Table D-38**  
**Number of Mills by Lathe Log Diameter Limit**

Economic area	Lathe log diameter limit							
	Layup only	20-29	30-39	40-49	50-59	60-69	70-79	80+
Puget Sound	3	--	--	2	--	2	--	--
Olympic Peninsula	3	--	2	--	1	2	--	2
Lower Columbia	--	1	1	--	--	1	--	1
Central Washington	--	--	2	1	--	1	--	--
Inland Empire	--	1	--	--	--	--	--	--
<b>Total, State</b>	<b>6</b>	<b>2</b>	<b>5</b>	<b>3</b>	<b>1</b>	<b>6</b>	<b>--</b>	<b>3</b>

**Table D-39**  
**Number of Mills by Minimum Core Size Produced**

Economic area	Diameter of cores (inches)										No lathe or core
	3	4	5	6	7	8	9	10	11		
Puget Sound	--	--	--	--	--	--	--	2	2	3	
Olympic Peninsula	--	--	--	--	--	2	--	2	3	3	
Lower Columbia	--	--	--	--	1	--	1	1	1	--	
Central Washington	--	--	--	--	2	1	--	--	1	--	
Inland Empire	--	--	--	--	--	1	--	--	--	--	
<b>Total, State</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>3</b>	<b>4</b>	<b>1</b>	<b>5</b>	<b>7</b>	<b>6</b>	



# VENEER AND PLYWOOD MILLS 1986

**Table D-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
<b>Puget Sound</b>								
King	--	1	--	--	1	--	1	--
Pierce	1	--	--	1	--	2	2	--
Skagit	--	--	--	1	--	--	1	--
Snohomish	1	--	--	1	1	1	1	1
Whatcom	1	1	--	1	1	--	1	--
<b>Total</b>	<b>3</b>	<b>2</b>	<b>--</b>	<b>4</b>	<b>3</b>	<b>3</b>	<b>6</b>	<b>1</b>
<b>Olympic Peninsula</b>								
Clallam	1	2	1	2	2	--	1	--
Grays Harbor	1	--	--	2	1	1	1	--
Lewis	1	1	--	1	1	--	--	--
Mason	--	1	--	1	1	--	1	--
Thurston	1	--	--	--	--	--	1	1
<b>Total</b>	<b>4</b>	<b>4</b>	<b>1</b>	<b>6</b>	<b>5</b>	<b>1</b>	<b>4</b>	<b>1</b>
<b>Lower Columbia</b>								
Clark	1	1	--	1	1	--	1	--
Cowlitz	--	1	--	1	--	--	--	--
Klickitat	--	1	--	1	--	--	1	--
Skamania	1	1	--	1	1	--	1	1
<b>Total</b>	<b>2</b>	<b>4</b>	<b>--</b>	<b>4</b>	<b>2</b>	<b>--</b>	<b>3</b>	<b>1</b>
<b>Central Washington</b>								
Kittitas	--	1	--	1	1	--	--	1
Okanogan	1	1	--	2	2	--	1	--
Yakima	--	1	--	--	1	--	1	--
<b>Total</b>	<b>1</b>	<b>3</b>	<b>--</b>	<b>3</b>	<b>4</b>	<b>--</b>	<b>2</b>	<b>1</b>
<b>Inland Empire</b>								
Stevens	--	1	--	1	1	--	1	--
<b>Total</b>	<b>--</b>	<b>1</b>	<b>--</b>	<b>1</b>	<b>1</b>	<b>--</b>	<b>1</b>	<b>--</b>
<b>Total, State</b>	<b>10</b>	<b>14</b>	<b>1</b>	<b>18</b>	<b>15</b>	<b>4</b>	<b>16</b>	<b>4</b>

# VENEER AND PLYWOOD MILLS 1986

**Table D-41**  
**Number of Mills by Tenure of Present Ownership**

Economic area and site occupancy (years)	All mills	Tenure of present mill ownership (years)				
		0-2	3-5	6-10	11-20	21+
<b>Puget Sound</b>						
3-5	1	--	--	--	--	1
21+	6	1	1	--	--	4
<b>Total</b>	<b>7</b>	<b>1</b>	<b>1</b>	<b>--</b>	<b>--</b>	<b>5</b>
<b>Olympic Peninsula</b>						
11-20	1	--	--	--	1	--
21+	9	--	--	1	2	6
<b>Total</b>	<b>10</b>	<b>--</b>	<b>--</b>	<b>1</b>	<b>3</b>	<b>6</b>
<b>Lower Columbia</b>						
21+	4	--	--	--	--	4
<b>Total</b>	<b>4</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>4</b>
<b>Central Washington</b>						
6-10	1	--	1	--	--	--
11-20	2	1	--	--	1	--
21+	1	--	--	--	--	1
<b>Total</b>	<b>4</b>	<b>1</b>	<b>1</b>	<b>--</b>	<b>1</b>	<b>1</b>
<b>Inland Empire</b>						
11-20	1	--	--	--	1	--
<b>Total</b>	<b>1</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>1</b>	<b>--</b>
<b>Total, State</b>						
3-5	1	--	--	--	--	1
6-10	1	--	1	--	--	--
11-20	4	1	--	--	3	--
21+	20	1	1	1	2	15
<b>Total</b>	<b>26</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>5</b>	<b>16</b>

# VENEER AND PLYWOOD MILLS 1986

**Table D-42**  
**Average Number of Operating Days**

Economic area	Veneer only	Layup only	Veneer and layup
Puget Sound	230	245	254
Olympic Peninsula	226	294	198
Lower Columbia	225	--	255
Central Washington	185	--	252
Inland Empire	--	--	355
Statewide Average	216	269	248

**Table D-43**  
**Log Inventory Changes, Log Consumption**  
**and Apparent Log Receipts**  
**(Thousand Board Feet, Scribner Log Rule)**

Economic area	Log inventory			1986 log consumption	Apparent 1986 log receipts
	January 1, 1986	December 31, 1986	Net change		
Puget Sound	13,588	7,587	-6,001	77,935	71,934
Olympic Peninsula	5,010	3,145	-1,865	83,246	81,381
Lower Columbia	23,782	826,714	802,932	75,502	878,434
Central Washington/ Inland Empire <sup>1</sup>	50,224	53,028	2,804	192,767	195,571
Statewide Average	92,604	890,474	797,870	429,450	1,227,320

<sup>1</sup>Combined to avoid disclosure.

# VENEER AND PLYWOOD MILLS 1986

**Table D-44**  
**Production and Disposition of Wood Residues (Tons, Dry Weight)**

Economic area	Total	Total used <sup>1</sup>	Used			Unused
			Pulp and board	Fuel	Other	
<b>Puget Sound</b>						
Coarse <sup>2</sup> & medium <sup>3</sup>	130,214	130,214	30,157	91,535	8,522	--
Fine <sup>4</sup>	9,958	9,958	--	9,958	--	--
<b>Total</b>	<b>140,172</b>	<b>140,172</b>	<b>30,157</b>	<b>101,493</b>	<b>8,522</b>	<b>--</b>
<b>Olympic Peninsula</b>						
Coarse <sup>2</sup> & medium <sup>3</sup>	140,457	140,457	42,096	71,628	26,733	--
Fine <sup>4</sup>	11,403	11,403	--	11,403	--	--
<b>Total</b>	<b>151,860</b>	<b>151,860</b>	<b>42,096</b>	<b>83,031</b>	<b>26,733</b>	<b>--</b>
<b>Lower Columbia</b>						
Coarse <sup>2</sup> & medium <sup>3</sup>	123,542	123,542	65,363	38,398	19,781	--
Fine <sup>4</sup>	6,496	6,496	--	6,496	--	--
<b>Total</b>	<b>130,038</b>	<b>130,038</b>	<b>65,363</b>	<b>44,894</b>	<b>19,781</b>	<b>--</b>
<b>Central Washington/ Inland Empire<sup>5</sup></b>						
Coarse <sup>2</sup> & medium <sup>3</sup>	279,551	277,115	134,416	121,858	20,841	2,436
Fine <sup>4</sup>	11,077	11,077	--	11,077	--	--
<b>Total</b>	<b>290,628</b>	<b>288,192</b>	<b>134,416</b>	<b>132,935</b>	<b>20,841</b>	<b>2,436</b>
<b>Total, State</b>						
Coarse <sup>2</sup> & medium <sup>3</sup>	673,764	671,328	272,032	323,419	75,877	2,436
Fine <sup>4</sup>	38,934	38,934	--	38,934	--	--
<b>Total</b>	<b>712,698</b>	<b>710,262</b>	<b>272,032</b>	<b>362,353</b>	<b>75,877</b>	<b>2,436</b>

<sup>1</sup>Used residues were not necessarily consumed in the area in which they were produced.

<sup>2</sup>Coarse residue includes log trim, cores, veneer clippings, roundup and spur trim.

<sup>3</sup>Medium residue includes reject veneer and panel trim.

<sup>4</sup>Fine residue includes sawdust and sander dust.

<sup>5</sup>Combined to avoid disclosure.

# VENEER AND PLYWOOD MILLS 1986

**Table D-45**  
**Veneer and Plywood Production**  
**(Thousand Square Feet, 3/8-Inch Basis)**

Economic area and county	Veneer	Plywood <sup>1</sup>
Puget Sound King/Pierce/Skagit/ Snohomish/Whatcom <sup>2</sup>	41,667	452,614
Olympic Peninsula Clallam/Grays Harbor/ Lewis/Mason/ Thurston <sup>2</sup>	120,585	518,372
Lower Columbia Clark/Cowlitz/ Klickitat/Skamania <sup>2</sup>	25,320	295,269
Central Washington/ Inland Empire <sup>2</sup> Okanogan/Yakima/ Kittitas <sup>2</sup>	83,028	503,557
<b>Total, State</b>	<b>270,600</b>	<b>1,769,812</b>

<sup>1</sup>Includes hardwood and softwood faced plywood.

<sup>2</sup>Combined to avoid disclosure.

# PULP MILLS 1986

## Table D-46 Number of Pulp Mills<sup>1</sup>

Economic area and county	All mills	Type of pulp mill			
		Sulfite	Sulfate	Ground- wood	Semi- Chemical
<b>Puget Sound</b>					
Pierce	2	--	1	1	--
Snohomish	1	--	1	--	--
Whatcom	2	1	--	--	1
<b>Total</b>	<b>5</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>1</b>
<b>Olympic Peninsula</b>					
Clallam	2	1	--	1	--
Grays Harbor	2	2	--	--	--
Jefferson	1	--	1	--	--
<b>Total</b>	<b>5</b>	<b>3</b>	<b>1</b>	<b>1</b>	<b>--</b>
<b>Lower Columbia</b>					
Clark	2	1	1	--	--
Cowlitz	5	--	2	1	2
<b>Total</b>	<b>7</b>	<b>1</b>	<b>3</b>	<b>1</b>	<b>2</b>
<b>Inland Empire</b>					
Spokane	1	--	--	1	--
Walla Walla	2	--	1	--	1
<b>Total</b>	<b>3</b>	<b>--</b>	<b>1</b>	<b>1</b>	<b>1</b>
<b>Total, State</b>	<b>20</b>	<b>5</b>	<b>7</b>	<b>4</b>	<b>4</b>

<sup>1</sup>No board mills have operated in Washington State since 1982.

Table D-47  
Installed Capacity by Type of Mill

Economic area and county	All mills	Type of pulp mill			
		Sulfite	Sulfate	Ground- wood	Semi- Chemical
-----Bone dry tons <sup>1</sup> -----					
Puget Sound					
Pierce	1,627	--	1,200	427	--
Snohomish	386	--	386	--	--
Whatcom	612	558	--	--	54
Total	2,625	558	1,586	427	54
Olympic Peninsula					
Clallam	1,000	500	--	500	--
Grays Harbor	683	683	--	--	--
Jefferson	495	--	495	--	--
Total	2,178	1,183	495	500	--
Lower Columbia					
Clark	1,202	410	792	--	--
Cowlitz	5,415	--	3,702	1,248	465
Total	6,617	410	4,494	1,248	465
Inland Empire					
Spokane	212	--	--	212	--
Walla Walla	926	--	784	--	142
Total	1,138	--	784	212	142
Total, State	12,558	2,151	7,359	2,387	661

<sup>1</sup>24-hour capacity.

**PULP MILLS 1986**

**Table D-48  
Number of Mills by Tenure of Present Ownership**

Mill type and site occupancy (years)	Tenure of present ownership (years)				
	0-2	3-5	6-10	11-20	21+
Sulfite 21+	1	--	--	1	3
Sulfate 21+	2	1	--	--	4
Groundwood 6-10	--	--	1	--	--
21+	1	--	--	1	1
Semichemical 21+	0	--	--	--	4
<b>Total</b>	<b>4</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>12</b>

**Table D-49  
Average Number of Operating Days**

Economic area	Pulp
Puget Sound	347
Olympic Peninsula	349
Lower Columbia	320
Inland Empire	350
<b>Total, State</b>	<b>339</b>



Table D-50  
**Mill Production by Product and Operation (Bone Dry Tons)**

Economic area	All products	Type of product				
		Newsprint	Bleached paper	Unbleached paper	Other paper	Market pulp
Puget Sound	827,035	177,193	57,707	231,511	--	360,624
Olympic Peninsula	570,680	79	96,119	--	40,500	433,982
Lower Columbia and Inland Empire <sup>1</sup>	2,237,380	502,768	542,621	1,086,153	--	105,838
<b>Total, State</b>	<b>3,635,095</b>	<b>680,040</b>	<b>696,447</b>	<b>1,317,664</b>	<b>40,500</b>	<b>900,444</b>
<b>Type of Operation, Statewide</b>						
Sulfite	636,767	--	132,419	723	--	503,625
Sulfate	2,036,048	--	458,713	1,140,016	40,500	396,819
Groundwood	776,159	680,040	96,119	--	--	--
Semichemical	186,121	--	9,196	176,925	--	--
<b>Total, State</b>	<b>3,635,095</b>	<b>680,040</b>	<b>696,447</b>	<b>1,317,664</b>	<b>40,500</b>	<b>900,444</b>

<sup>1</sup> Combined to avoid disclosure.

# PULP MILLS 1986

## Table D-51 Type of Wood Consumed

Economic area	Roundwood			Other					
	Total	Sound logs	Utility logs	Total	Chips		Sawdust	Shavings	Waste paper
					From mill residue	From roundwood chipping mill			
	Thousand board feet, --Scribner log rule--			--Bone dry tons--					
Puget Sound	76,941	712	76,229	1,529,976	911,884	618,092	--	--	--
Olympic Peninsula	247,111	74,031	173,080	1,205,945	575,166	612,832	17,947	--	--
Lower Columbia and Inland Empire <sup>1</sup>	88,636	24,336	64,300	4,324,178	3,307,930	759,363	226,285	--	30,600
<b>Total, State</b>	<b>412,688</b>	<b>99,079</b>	<b>313,609</b>	<b>7,060,099</b>	<b>4,794,980</b>	<b>1,990,287</b>	<b>244,232</b>	<b>--</b>	<b>30,600</b>

<sup>1</sup> Combined to avoid disclosure.



# PULP MILLS 1986

**Table D-52**  
**Roundwood and Chip Consumption**  
**(Log Consumption: Thousand Board Feet, Scribner Log Rule)**  
**(Chip Consumption: Bone Dry Tons)**

Economic area	All species	Douglas fir	Hemlock	True firs	Spruce	Lodgepole pine	Other softwoods	Hardwoods
<b>Puget Sound</b>								
Total logs <sup>1</sup>	76,941	--	35,557	35,556	--	--	--	5,828
<b>Chips<sup>2</sup></b>								
Roundwood	618,092	268,549	216,788	42,114	8,422	4,657	37,256	40,306
Residue <sup>3</sup>	911,884							
Total chips	1,529,976							
<b>Olympic Peninsula</b>								
Total logs <sup>1</sup>	247,111	21,624	177,531	43,414	4,542	--	--	--
<b>Chips<sup>2</sup></b>								
Roundwood	612,832	142,309	348,719	45,480	16,345	--	--	59,979
Residue <sup>3</sup>	575,166							
Total chips	1,187,998							
<b>Lower Columbia/ Inland Empire<sup>4</sup></b>								
Total logs <sup>1</sup>	88,636	21,373	51,380	--	486	--	--	15,397
<b>Chips<sup>2</sup></b>								
Roundwood	759,363	183,155	157,314	156,104	--	124,789	52,931	85,070
Residue <sup>3</sup>	3,307,930							
Total chips	4,067,293							
<b>Total, State</b>								
Total logs <sup>1</sup>	412,688	42,997	264,468	78,970	5,028	--	--	21,225
<b>Chips<sup>2</sup></b>								
Roundwood	1,990,287	594,013	722,821	243,698	24,767	129,446	90,187	185,355
Residue <sup>3</sup>	4,794,980							
Total chips	6,785,267							

<sup>1</sup> Log consumption, thousand board feet, Scribner log rule.

<sup>2</sup> Chip volume, bone dry tons.

<sup>3</sup> Species breakdown for residue chips is not available.

<sup>4</sup> Combined to avoid disclosure.

**Table D-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
<b>Puget Sound</b>						
Chip residue <sup>1</sup>	911,884	--	--	--	--	--
Chip roundwood	618,092	490,491	--	--	127,601	--
Sawdust and shavings	--	--	--	--	--	--
<b>Total</b>	<b>1,529,976<sup>2</sup></b>	<b>490,491</b>	<b>--</b>	<b>--</b>	<b>127,601</b>	<b>--</b>
<b>Olympic Peninsula</b>						
Chip residue <sup>1</sup>	575,166	--	--	--	--	--
Chip roundwood	612,832	578,806	--	--	34,026	--
Sawdust and shavings	17,947	4,128	--	--	13,819	--
<b>Total</b>	<b>1,205,945<sup>2</sup></b>	<b>582,934</b>	<b>--</b>	<b>--</b>	<b>47,845</b>	<b>--</b>
<b>Lower Columbia/ Inland Empire<sup>3</sup></b>						
Chip residue <sup>1</sup>	3,307,930	--	--	--	--	--
Chip roundwood	759,363	415,976	252,430	90,957	--	--
Sawdust and shavings	226,285	133,370	92,374	541	--	--
<b>Total</b>	<b>4,324,178<sup>2</sup></b>	<b>549,346</b>	<b>344,804</b>	<b>91,498</b>	<b>--</b>	<b>--</b>
<b>Total, State</b>						
Chip residue <sup>1</sup>	4,794,980	--	--	--	--	--
Chip roundwood	1,990,287	1,485,273	252,430	90,957	161,627	--
Sawdust and shavings	244,232	137,498	92,374	541	13,819	--
<b>Total</b>	<b>7,029,499<sup>2</sup></b>	<b>1,622,771</b>	<b>344,804</b>	<b>91,498</b>	<b>175,446</b>	<b>--</b>

<sup>1</sup> State or province of origin for residue chips not available.

<sup>2</sup> Includes chip residue total.

<sup>3</sup> Combined to avoid disclosure.

# SHAKE AND SHINGLE MILLS 1986

**Table D-54**  
**Number of Shake and Shingle Mills**  
**and Their Operating Characteristics**

Economic area and county	Number of mills	Total single shift capacity <sup>1</sup> (Squares)			Average number of operating days/year
		Shake	Shingle	Other	
<b>Puget Sound</b>					
Pierce	3	163	80	10	153
Skagit/Whatcom <sup>2</sup>	16	1,444	376	179	185
Snohomish	12	465	128	17	154
<b>Total</b>	<b>31</b>	<b>2,072</b>	<b>584</b>	<b>206</b>	<b>165</b>
<b>Olympic Peninsula</b>					
Clallam	30	2,021	646	10	192
Grays Harbor/Jefferson <sup>2</sup>	30	2,311	651	293	191
Lewis	10	151	38	4	175
Pacific	3	121	--	--	127
<b>Total</b>	<b>73</b>	<b>4,604</b>	<b>1,335</b>	<b>307</b>	<b>187</b>
<b>Lower Columbia/ Inland Empire<sup>2</sup></b>					
Clark/Stevens <sup>2</sup>	4	72	--	23	106
Cowlitz	6	192	342	11	188
Wahkiakum	3	100	75	--	137
<b>Total</b>	<b>13</b>	<b>364</b>	<b>417</b>	<b>34</b>	<b>154</b>
<b>Total, State</b>	<b>117</b>	<b>7,040</b>	<b>2,336</b>	<b>547</b>	<b>177</b>

<sup>1</sup> Eight-hour shift capacity.

<sup>2</sup> Combined to avoid disclosure.

# SHAKE AND SHINGLE MILLS 1986

Table D-55  
Number of Shake and Shingle Mills  
with Selected Equipment

Economic area and county	Chipper	Barker	Burner
<b>Puget Sound</b>			
Pierce	1	--	1
Skagit	1	--	11
Snohomish	2	--	4
Whatcom	--	--	--
Total	4	--	16
<b>Olympic Peninsula</b>			
Clallam	--	--	26
Grays Harbor	7	--	6
Jefferson	--	--	--
Lewis	--	--	1
Pacific	--	--	1
Total	7	--	34
<b>Lower Columbia</b>			
Clark	1	--	--
Cowlitz	2	--	--
Wahkiakum	--	--	--
Total	3	--	--
<b>Inland Empire</b>			
Stevens	--	--	--
Total	--	--	--
<b>Total, State</b>	<b>14</b>	<b>--</b>	<b>50</b>

# SHAKE AND SHINGLE MILLS 1986

**Table D-56**  
**Number of Shake and Shingle Mills by Tenure**  
**of Present Ownership and Site Occupancy**

Type of mill and site occupancy (years)	All mills	Tenure of present mill ownership (years)				
		0-2	3-5	6-10	11-20	21+
Shake and shingle						
0-2	1	1	--	--	--	--
3-5	3	--	3	--	--	--
6-10	32	3	1	25	3	--
11-20	56	--	4	6	46	--
21+	25	--	--	2	3	20
<b>Total</b>	<b>117</b>	<b>4</b>	<b>8</b>	<b>33</b>	<b>52</b>	<b>20</b>



# SHAKE AND SHINGLE MILLS 1986

**Table D-57**  
**Type of Wood Consumed**  
**(Thousand Board Feet, Scribner Log Rule)**

Economic area and county	All types	Sound logs	Utility logs	Other
<hr/>				
Puget Sound				
Pierce	1,835	1,190	210	435
Skagit/Whatcom <sup>1</sup>	21,882	19,817	590	1,475
Snohomish	6,558	1,750	3,150	1,658
<hr/>				
Total	30,275	22,757	3,950	3,568
<hr/>				
Olympic Peninsula				
Clallam	28,591	22,688	415	5,488
Grays Harbor/Jefferson <sup>1</sup>	38,607	33,620	372	4,615
Lewis	1,511	300	16	1,195
Pacific	433	250	--	183
<hr/>				
Total	69,142	56,858	803	11,481
<hr/>				
Lower Columbia/ Inland Empire <sup>1</sup>				
Clark/Stevens <sup>1</sup>	372	157	63	152
Cowlitz	7,045	5,010	1,440	595
Wahkiakum	2,312	2,000	200	112
<hr/>				
Total	9,729	7,167	1,703	859
<hr/>				
Total, State	109,146	86,782	6,456	15,908

<sup>1</sup>Combined to avoid disclosure.

# SHAKE AND SHINGLE MILLS 1986

**Table D-58**  
**Ownership Origin of Logs Consumed**  
**(Thousand Board Feet, Scribner Log Rule)**

Economic area and county	All owners	State	National Forest	Bureau of Land Management	Other public	Forest industry		Farmer and miscellaneous private
						Own wood supply	Other wood supply	
<b>Puget Sound</b>								
Pierce	1,400	70	140	--	--	--	1,190	--
Skagit/Whatcom <sup>1</sup>	20,407	4,308	12,299	--	304	--	2,304	1,192
Snohomish	4,900	875	2,925	--	--	500	600	--
<b>Total</b>	<b>26,707</b>	<b>5,253</b>	<b>15,364</b>	<b>--</b>	<b>304</b>	<b>500</b>	<b>4,094</b>	<b>1,192</b>
<b>Olympic Peninsula</b>								
Clallam	23,103	14,901	1,450	--	900	2,000	3,672	180
Grays Harbor/Jefferson <sup>1</sup>	33,992	11,202	9,807	--	279	742	11,852	110
Lewis	316	--	65	--	--	--	171	80
Pacific	250	50	125	--	--	--	--	75
<b>Total</b>	<b>57,661</b>	<b>26,153</b>	<b>11,447</b>	<b>--</b>	<b>1,179</b>	<b>2,742</b>	<b>15,695</b>	<b>445</b>
<b>Lower Columbia/ Inland Empire<sup>1</sup></b>								
Clark/Stevens <sup>1</sup>	220	24	136	--	60	--	--	--
Cowlitz	6,450	340	--	--	--	--	6,110	--
Wahkiakum	2,200	--	--	--	--	200	2,000	--
<b>Total</b>	<b>8,870</b>	<b>364</b>	<b>136</b>	<b>--</b>	<b>60</b>	<b>200</b>	<b>8,110</b>	<b>--</b>
<b>Total, State</b>	<b>93,238</b>	<b>31,770</b>	<b>26,947</b>	<b>--</b>	<b>1,543</b>	<b>3,442</b>	<b>27,899</b>	<b>1,637</b>

<sup>1</sup>Combined to avoid disclosure.

# SHAKE AND SHINGLE MILLS 1986

**Table D-59  
Production and Disposition of  
Wood and Bark Residues (Tons, Dry Weight)**

Economic area and county	All residue			Wood residue			Bark residue		
	Total	Used <sup>1</sup>	Unused	Total	Used <sup>1</sup>	Unused	Total	Used <sup>1</sup>	Unused
<b>Puget Sound</b>									
Pierce	1,365	1,311	54	972	918	54	393	393	--
Skaagit/Whatcom <sup>2</sup>	22,480	9,796	12,684	15,372	6,675	8,697	7,108	3,121	3,987
Snohomish	5,493	4,976	517	4,111	3,729	382	1,382	1,247	135
<b>Total</b>	<b>29,338</b>	<b>16,083</b>	<b>13,255</b>	<b>20,455</b>	<b>11,322</b>	<b>9,133</b>	<b>8,883</b>	<b>4,761</b>	<b>4,122</b>
<b>Olympic Peninsula</b>									
Clallam	27,420	2,320	25,100	19,915	1,762	18,153	7,505	558	6,947
Grays Harbor/Jefferson <sup>2</sup>	30,617	25,152	5,465	21,321	17,372	3,949	9,296	7,780	1,516
Lewis	988	551	437	880	482	398	108	69	39
Pacific	380	22	358	279	22	257	101	--	101
<b>Total</b>	<b>59,405</b>	<b>28,045</b>	<b>31,360</b>	<b>42,395</b>	<b>19,638</b>	<b>22,757</b>	<b>17,010</b>	<b>8,407</b>	<b>8,603</b>
<b>Lower Columbia/ Inland Empire<sup>2</sup></b>									
Clark/Stevens <sup>2</sup>	242	194	48	183	153	30	59	41	18
Cowlitz	7,326	7,326	--	5,463	5,463	--	1,863	1,863	--
Wahkiakum	2,175	2,175	--	1,587	1,587	--	588	588	--
<b>Total</b>	<b>9,743</b>	<b>9,695</b>	<b>48</b>	<b>7,233</b>	<b>7,203</b>	<b>30</b>	<b>2,510</b>	<b>2,492</b>	<b>18</b>
<b>State Total</b>	<b>98,486</b>	<b>53,823</b>	<b>44,663</b>	<b>70,083</b>	<b>38,163</b>	<b>31,920</b>	<b>28,403</b>	<b>15,660</b>	<b>12,743</b>

<sup>1</sup>Used residues were not necessarily consumed in the area in which they were produced.

<sup>2</sup>Combined to avoid disclosure.

# SHAKE AND SHINGLE MILLS 1986

**Table D-60**  
**Production and Disposition of**  
**Wood Residues (Tons, Dry Weight)**

Economic area and county	All types					
	Total	Total used <sup>3</sup>	Pulp	Fuel	Other	Unused
<b>Puget Sound</b>						
Pierce	972	918	--	119	799	54
Skagit/Whatcom <sup>4</sup>	15,372	6,675	--	4,237	2,438	8,697
Snohomish	4,111	3,729	--	2,092	1,637	382
<b>Total</b>	<b>20,455</b>	<b>11,322</b>	<b>--</b>	<b>6,448</b>	<b>4,874</b>	<b>9,133</b>
<b>Olympic Peninsula</b>						
Clallam	19,915	1,762	--	1,209	553	18,153
Grays Harbor/Jefferson <sup>4</sup>	21,321	17,372	233	10,024	7,115	3,949
Lewis	880	482	--	72	410	398
Pacific	279	22	--	0	22	257
<b>Total</b>	<b>42,395</b>	<b>19,638</b>	<b>233</b>	<b>11,305</b>	<b>8,100</b>	<b>22,757</b>
<b>Lower Columbia</b>						
<b>Inland Empire<sup>4</sup></b>						
Clark/Stevens <sup>4</sup>	183	153	--	59	94	30
Cowlitz	5,463	5,463	--	4,491	972	--
Wahkiakum	1,587	1,587	--	1,569	18	--
<b>Total</b>	<b>7,233</b>	<b>7,203</b>	<b>0</b>	<b>6,119</b>	<b>1,084</b>	<b>30</b>
<b>Total, State</b>	<b>70,083</b>	<b>38,163</b>	<b>233</b>	<b>23,872</b>	<b>14,058</b>	<b>31,920</b>

<sup>1</sup>End block trim, splats.

<sup>2</sup>Splints and sawdust.

<sup>3</sup>Used residues were not necessarily consumed in the area in which they were produced.

<sup>4</sup>Combined to avoid disclosure.

# SHAKE AND SHINGLE MILLS 1986

**Table D-60 continued**

Coarse <sup>1</sup>						Fine <sup>2</sup>					
Total	Total used <sup>3</sup>	Pulp	Fuel	Other	Unused	Total	Total used <sup>3</sup>	Pulp	Fuel	Other	Unused
350	324	--	62	262	26	622	594	--	57	537	28
5,948	2,567	--	2,429	138	3,381	9,424	4,108	--	1,808	2,300	5,316
1,607	1,455	--	730	725	152	2,504	2,274	--	1,362	912	230
7,905	4,346	--	3,221	1,125	3,559	12,550	6,976	--	3,227	3,749	5,574
7,191	577	--	388	189	6,614	12,724	1,185	--	821	364	11,539
8,459	6,783	79	3,686	3,018	1,676	12,862	10,589	154	6,338	4,097	2,273
391	264	--	72	192	127	489	218	--	--	218	271
136	22	--	--	22	114	143	--	--	--	--	143
16,177	7,646	79	4,146	3,421	8,531	26,218	11,992	154	7,159	4,679	14,226
89	74	--	59	15	15	94	79	--	--	79	15
1,622	1,622	--	1,332	290	--	3,841	3,841	--	3,159	682	--
469	469	--	462	7	--	1,118	1,118	--	1,107	11	--
2,180	2,165	--	1,853	312	15	5,053	5,038	--	4,266	772	15
26,262	14,157	79	9,220	4,858	12,105	43,821	24,006	154	14,652	9,200	19,815

# SHAKE AND SHINGLE MILLS 1986

**Table D-61  
Production and Disposition  
Of Bark Residues (Tons, Dry Weight)**

Economic area and county	Bark					
	Total	Total used <sup>1</sup>	Pulp	Fuel	Other	Unused
<b>Puget Sound</b>						
Pierce	393	393	--	79	314	--
Skagit/Whatcom <sup>2</sup>	7,108	3,121	--	3,091	30	3,987
Snohomish	1,382	1,247	--	915	332	135
<b>Total</b>	<b>8,883</b>	<b>4,761</b>	<b>--</b>	<b>4,085</b>	<b>676</b>	<b>4,122</b>
<b>Olympic Peninsula</b>						
Clallam	7,505	558	--	493	65	6,947
Grays Harbor/ Jefferson <sup>2</sup>	9,296	7,780	101	4,339	3,340	1,516
Lewis	108	69	--	26	43	39
Pacific	101	--	--	--	--	101
<b>Total</b>	<b>17,010</b>	<b>8,407</b>	<b>101</b>	<b>4,858</b>	<b>3,448</b>	<b>8,603</b>
<b>Lower Columbia/ Inland Empire<sup>2</sup></b>						
Clark/Stevens <sup>2</sup>	59	41	--	41	--	18
Cowlitz	1,863	1,863	--	1,570	293	--
Wahkiakum	588	588	--	588	--	--
<b>Total</b>	<b>2,510</b>	<b>2,492</b>	<b>--</b>	<b>2,199</b>	<b>293</b>	<b>18</b>
<b>Total, State</b>	<b>28,403</b>	<b>15,660</b>	<b>101</b>	<b>11,142</b>	<b>4,417</b>	<b>12,743</b>

<sup>1</sup>Used residues were not necessarily consumed in the area in which they were produced.

<sup>2</sup>Combined to avoid disclosure.

# SHAKE AND SHINGLE MILLS 1986

Table D-62  
**Mill Production By Product Class**

Economic area and county	Shakes	Shingles	Other <sup>1</sup>
	-----Squares-----		
Puget Sound			
Pierce	10,899	4,910	141
Skagit/Whatcom <sup>2</sup>	204,636	61,622	4,111
Snohomish	55,675	15,844	1,500
<b>Total</b>	<b>271,210</b>	<b>82,376</b>	<b>5,752</b>
Olympic Peninsula			
Clallam	226,725	100,112	--
Grays Harbor/Jefferson <sup>2</sup>	281,158	77,285	26,003
Lewis	15,917	1,514	375
Pacific	6,200	--	--
<b>Total</b>	<b>530,000</b>	<b>178,911</b>	<b>26,378</b>
Lower Columbia/ Inland Empire <sup>2</sup>			
Clark/Stevens <sup>2</sup>	2,985	--	1,067
Cowlitz	31,472	41,250	1,005
Wahkiakum	9,252	12,063	--
<b>Total</b>	<b>43,709</b>	<b>53,313</b>	<b>2,072</b>
<b>Total, State</b>	<b>844,919</b>	<b>314,600</b>	<b>34,202</b>

<sup>1</sup>Other includes hip and ridge shakes, wedges, etc.

<sup>2</sup>Combined to avoid disclosure.

# POST, POLE AND PILING MILLS 1986

**Table D-63**  
**Number of Post, Pole 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 1986 <sup>1</sup>	
		Peeling	Treatment	Peeling	Treatment
		Puget Sound	4	3,913	3,852
Olympic Peninsula/ Lower Columbia <sup>2</sup>	6	26,201	14,849	123 (5)	262 (2)
Inland Empire	3	10,000	12,640	163 (3)	133 (2)
<b>Total, State</b>	<b>13</b>	<b>40,114</b>	<b>31,341</b>	<b>161 (12)</b>	<b>211 (5)</b>

<sup>1</sup>Number of mills is noted by figures in parentheses.

<sup>2</sup>Combined to avoid disclosure.



POST, POLE AND PILING MILLS 1986

Table D-64  
 Number of Post, Pole and Piling Mills by Tenure  
 of Present Ownership and Site Occupancy

Years of site occupancy	Tenure of mill ownership in years					
	Total	0-2	3-5	6-10	11-20	21+
3-5	1	1	--	--	--	--
6-10	1	--	--	1	--	--
11-20	3	--	--	--	3	--
21+	8	1	--	1	1	5
<b>Total</b>	<b>13</b>	<b>2</b>	<b>--</b>	<b>2</b>	<b>4</b>	<b>5</b>

# POST, POLE AND PILING MILLS 1986

**Table D-65**  
**Number of Post, Pole and Piling Mills**  
**with Selected Equipment**

Economic area and county	Number of mills	Chipper	Peeler	Burner
<b>Puget Sound</b>				
King	1	--	1	--
Pierce	1	--	1	--
Snohomish	1	--	1	--
Whatcom	1	--	1	1
<b>Total</b>	<b>4</b>	<b>--</b>	<b>4</b>	<b>1</b>
<b>Olympic Peninsula</b>				
Clallam	1	--	1	--
Lewis	1	--	1	--
Mason	1	--	1	--
Thurston	2	--	1	--
<b>Total</b>	<b>5</b>	<b>--</b>	<b>4</b>	<b>--</b>
<b>Lower Columbia</b>				
Clark	1	--	1	1
<b>Total</b>	<b>1</b>	<b>--</b>	<b>1</b>	<b>1</b>
<b>Inland Empire</b>				
Stevens	3	--	3	1
<b>Total</b>	<b>3</b>	<b>--</b>	<b>3</b>	<b>1</b>
<b>Total, State</b>	<b>13</b>	<b>--</b>	<b>12</b>	<b>3</b>

# POST, POLE AND PILING MILLS 1986

**Table D-66**  
**Log Consumption by Timber Age**  
**(Thousand Board Feet, Scribner Log Rule)**

Economic area and country	All age groups	Old growth (100+ years)	Young growth (less than 100 years)
<hr/>			
Puget Sound King/Pierce/Snohomish/ Whatcom <sup>1</sup>	1,646	4	1,642
<hr/>			
Total	1,646	4	1,642
<hr/>			
Olympic Peninsula/ Lower Columbia <sup>1</sup> Clallam/Clark/Lewis/ Mason/Thurston <sup>1</sup>	10,417	--	10,417
<hr/>			
Total	10,417	0	10,417
<hr/>			
Inland Empire Stevens	8,700	400	8,300
<hr/>			
Total	8,700	400	8,300
<hr/>			
Total, State	20,763	404	20,359
<hr/>			

<sup>1</sup>Combined to avoid disclosure.

# POST, POLE AND PILING MILLS 1986

**Table D-67**  
**Mill Production**  
**(Thousand Board Feet, Scribner Log Rule)**

Economic area	-----Shipments-----		
	Treated	Untreated	Total
Puget Sound	1,001	625	1,626
Olympic Peninsula/ Lower Columbia <sup>1</sup>	1,054	17,725	18,779
Inland Empire	1,060	200	1,260
Total, State	3,115	18,550	21,665

<sup>1</sup>Combined to avoid disclosure.

# LOG EXPORT OPERATIONS 1986

## Table D-68 Number of Export Operations and Type of Logs Exported

Port of export	Number of Operations	Volume of wood exported			
Economic area and port	County	Sound logs	Utility logs	Total	
(Thousand board feet, Scribner log scale)					
Puget Sound Anacortes/ Everett <sup>1</sup> Tacoma	Skagit/ Snohomish <sup>1</sup>	21	313,489	--	313,489
	Pierce	14	376,536	--	376,536
	Total	35	690,025	--	690,025
<hr/>					
Olympic Peninsula Grays Harbor Olympia Port Angeles	Grays Harbor	20	492,662	350	493,012
	Thurston	10	85,779	17	85,796
	Clallam	18	349,347	600	349,947
	Total	48	927,788	967	928,755
<hr/>					
Lower Columbia Longview	Clark	18	549,156	--	549,156
	Total	18	549,156	--	549,156
<hr/>					
Total, State		101	2,166,969	967	2,167,936

<sup>1</sup>Combined to avoid disclosure.

# LOG EXPORT OPERATIONS 1986

**Table D-69**  
**Number of Export Operations by**  
**Years of Port Use**

---

Years of port use	All Operations
0-2	9
3-5	19
6-10	19
11-20	27
21+	27
<hr/>	
Total	101

---

# LOG EXPORT OPERATIONS 1986

## Table D-70 Log Flows to Ports (Thousand Board Feet, Scribner Log Rule)

Economic area and county of origin	Port and county of export						Total
	Anacortes/ Everett <sup>1,2</sup>	Grays Harbor <sup>3</sup>	Longview <sup>4</sup>	Olympia <sup>5</sup>	Port Angeles <sup>6</sup>	Tacoma <sup>7</sup>	
<b>Puget Sound</b>							
Island	--	--	--	--	--	--	--
King	18,524	--	--	--	--	65,836	84,360
Kitsap	--	--	--	--	--	15,636	15,636
Pierce	22,241	1,100	--	14,968	--	98,953	137,262
Skagit	93,183	--	--	173	--	--	93,356
Snohomish	83,088	--	--	173	--	20,601	103,862
Whatcom	60,995	--	--	173	--	--	61,168
<b>Total</b>	<b>278,031</b>	<b>1,100</b>	<b>--</b>	<b>15,487</b>	<b>--</b>	<b>201,026</b>	<b>495,644</b>
<b>Olympic Peninsula</b>							
Clallam	155	3,675	--	--	309,574	--	313,404
Grays Harbor	--	327,975	--	--	--	--	327,975
Jefferson	1,229	85,408	--	--	40,373	--	127,010
Lewis	1,839	14,224	80,215	25,134	--	91,311	212,723
Mason	3,425	1,832	--	5,792	--	13,794	24,843
Pacific	--	57,349	--	--	--	--	57,349
Thurston	--	172	--	38,179	--	40,941	79,292
<b>Total</b>	<b>6,648</b>	<b>490,635</b>	<b>80,215</b>	<b>69,105</b>	<b>349,947</b>	<b>146,046</b>	<b>1,142,596</b>
<b>Lower Columbia</b>							
Clark	--	--	29,894	--	--	--	29,894
Cowlitz	--	--	252,701	1,204	--	--	253,905
Klickitat	--	--	650	--	--	--	650
Skamania	--	--	107,265	--	--	--	107,265
Wahkiakum	--	1,277	27,011	--	--	--	28,288
<b>Total</b>	<b>--</b>	<b>1,277</b>	<b>417,521</b>	<b>1,204</b>	<b>--</b>	<b>--</b>	<b>420,002</b>
<b>Central Washington</b>							
Chelan	--	--	--	--	--	--	--
Kittitas	22,440	--	--	--	--	29,464	51,904
Lincoln	--	--	--	--	--	--	--
Okanogan	--	--	--	--	--	--	--
<b>Total</b>	<b>22,440</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>29,464</b>	<b>51,904</b>
<b>Inland Empire</b>							
Ferry	--	--	--	--	--	--	--
Pend Oreille	--	--	--	--	--	--	--
Spokane	--	--	--	--	--	--	--
Stevens	--	--	--	--	--	--	--
<b>Total</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>
<b>Total, State</b>	<b>307,119</b>	<b>493,012</b>	<b>497,736</b>	<b>85,796</b>	<b>349,947</b>	<b>376,536</b>	<b>2,110,146</b>
<b>Outside Washington</b>	<b>6,370</b>	<b>--</b>	<b>51,420</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>57,790</b>
<b>Total</b>	<b>313,489</b>	<b>493,012</b>	<b>549,156</b>	<b>85,796</b>	<b>349,947</b>	<b>376,536</b>	<b>2,167,936</b>

<sup>1</sup>Combined to avoid disclosure.

<sup>2</sup>Skagit and Snohomish Counties

<sup>3</sup>Grays Harbor County

<sup>4</sup>Cowlitz County

<sup>5</sup>Thurston County

<sup>6</sup>Clallam County

<sup>7</sup>Pierce County

# LOG EXPORT OPERATIONS 1986

## Table D-71 Log Consumption (Thousand Board Feet, Scribner Log Rule)

Economic area and county	All species	Douglas fir	Hemlock	True firs	Spruce	Ponderosa pine	Lodgepole pine	Western redcedar	Other softwoods	Hardwoods
<b>Puget Sound</b>										
Pierce	376,536	272,397	88,672	13,967	135	--	24	1,293	48	--
Skagit/Snohomish <sup>1</sup>	313,489	191,563	95,427	12,041	3,249	280	120	5,027	3,728	2,054
Total	690,025	463,960	184,099	26,008	3,384	280	144	6,320	3,776	2,054
<b>Olympic Peninsula</b>										
Clallam	349,947	26,576	285,548	5,244	12,956	--	--	17,800	1,777	46
Grays Harbor	493,012	109,433	326,974	4,344	12,677	--	141	38,602	841	--
Thurston	85,796	79,279	5,140	1,020	--	--	--	357	--	--
Total	928,755	215,288	617,662	10,608	25,633	--	141	56,759	2,618	46
<b>Lower Columbia</b>										
Cowlitz	549,156	455,429	75,881	10,414	2,989	--	--	3,584	859	--
Total	549,156	455,429	75,881	10,414	2,989	--	--	3,584	859	--
Total, State	2,167,936	1,134,677	877,642	47,030	32,006	280	285	66,663	7,253	2,100

<sup>1</sup>Combined to avoid disclosure.



# LOG EXPORT OPERATIONS 1986

**Table D-72**  
**Ownership Origin of Logs Consumed**  
**(Thousand Board Feet, Scribner Log Rule)**

Economic area and county	All owners	State	National Forest	Bureau of Land Management	Other public	Forest industry				
						Own wood supply	Other wood supply	Farmer and miscellaneous		
Puget Sound										
Pierce	376,536	106,469	--	--	13,633	1,860	198,019	56,555		
Skagit/Snohomish <sup>1</sup>	313,489	117,747	--	--	8,275	--	107,372	80,095		
Total	690,025	224,216	--	--	21,908	1,860	305,391	136,650		
Olympic Peninsula										
Clallam	349,947	64,552	--	--	8,798	87,017	162,240	27,340		
Grays Harbor	493,012	114,957	--	--	33,906	113,495	180,679	49,975		
Thurston	85,796	32,143	--	--	4,251	4,287	27,637	17,478		
Total	928,755	211,652	--	--	46,955	204,799	370,556	94,793		
Lower Columbia										
Cowlitz	549,156	186,925	--	--	--	11,562	308,529	42,140		
Total	549,156	186,925	--	--	--	11,562	308,529	42,140		
Total, State	2,167,936	622,793	--	--	68,863	218,221	984,476	273,583		

<sup>1</sup>Combined to avoid disclosure.



# Appendix E



## Sawmills

### ASOTIN COUNTY

Bennett Lumber Co.  
PO Box 670  
Clarkston, WA 99403  
Phone: (509) 758-5558

Hough Sawmill  
PO Box 12  
Anatone, WA 99401  
Phone: (509) 256-3338

### CLALLAM COUNTY

Beaver Lumber  
PO Box 117  
Beaver, WA 98305  
Phone: (206) 327-3770

Ted Butcher, Inc.  
PO Box 990  
Sequim, WA 98382  
Phone: (206) 683-5255

Thomas Kreger  
1317 O'Brian Road  
Port Angeles, WA 98362  
Phone: (206) 457-0105

Loth Lumber  
Forks Mill  
PO Box 389  
Gold Bar, WA 98251  
Phone: (206) 374-5500

Mason Lumber Products  
PO Box 133  
Beaver, WA 98305  
Phone: (206) 327-3727

McClanahan Lumber  
PO Box 1483  
Forks, WA 98331  
Phone: (206) 374-5887

Merrill/Ring Lumber Co.  
PO Box 1058  
Port Angeles, WA 98362

M. J. Lumber Co.  
785 W Sequim Bay Road  
Sequim, WA 98382  
Phone: (206) 683-5825

### CLARK COUNTY

Allworth Valley Mills  
21120 NE Allworth Road  
Battle Ground, WA 98604  
Phone: (206) 687-1152

Bergeron Lumber and  
Hardwood  
7124 NE 18th Street  
Vancouver, WA 98664  
Phone: (206) 256-1300

Columbia Vista Corp.  
PO Box 489  
Vancouver, WA 98660  
Phone: (206) 892-0770

Hambleton Brothers Lumber  
PO Box 285  
Washougal, WA 98671  
Phone: (206) 835-2148

Isham Log/Pulp  
10909 NE 219th  
Battle Ground, WA 98604  
Phone: (206) 696-4176

### COWLITZ COUNTY

Ross-Simmons Hardwood  
Lumber  
PO Box 366  
Longview, WA 98632  
Phone: (206) 423-8210

Weyerhaeuser Company  
Exeter Mill  
Green Mountain Mill  
Longview Mill  
Tacoma, WA 98401  
Phone: (206) 577-6678

### FERRY COUNTY

Brauner Lumber Co.  
Route 2  
Kettle Falls, WA 99141  
Phone: (509) 738-6311

Vaagen Brothers Lumber Inc.  
Republic Mill  
565 W 5th  
Colville, WA 99114  
Phone: (509) 775-3346

### GRAYS HARBOR COUNTY

Dahlstrom Lumber  
PO Box 386  
Hoquiam, WA 98550  
Phone: (206) 533-0448

Mary's River Lumber Co.  
Montesano Division  
4515 NE Elliot Circle  
Corvallis, OR 97330  
Phone: (206) 249-5907

Mayr Brothers Logging Co.  
Hoquiam Mill  
Route 3, Box 508  
Hoquiam, WA 98550  
Phone: (206) 532-7680

Mayr Brothers Logging Co.  
Willapa Mill  
Route 3, Box 508  
Hoquiam, WA 98550  
Phone: (206) 532-7490

Malone Sawmill Co.  
74 Malone Hill Road  
Elma, WA 98541  
Phone: (206) 482-4271

Raymond H. Sartwell  
Portable Sawmilling  
420 27th  
Longview, WA 98632  
Phone: (206) 577-9070

Weyerhaeuser Company  
Aberdeen Sawmill  
Tacoma, WA 98477  
Phone: (206) 532-7110

### ISLAND COUNTY

Waterman Mill  
PO Box 325  
Langley, WA 98260  
Phone: (206) 321-4532

### JEFFERSON COUNTY

Allen Logging/Veneer  
HC 80 Box 736  
Forks, WA 98331  
Phone: (206) 374-6000

Master-Halco, Inc.  
4660 S Discovery Road  
Port Townsend, WA 98368  
Phone: (206) 385-2004

### KING COUNTY

Auburn Sawmilling  
18761 Auburn-Black  
Diamond Rd.  
Auburn, WA 98002  
Phone: (206) 631-9097

Barbee Mill Co.  
PO Box 359  
Renton, WA 98057  
Phone: (206) 226-3900

Copac-Preston Mill Inc.  
PO Box 888  
Preston, WA 98050  
Phone: (206) 222-5416

Davidson's Sawmill  
32405 NE 12th Place  
Carnation, WA 98014  
Phone: (206) 333-4242

Isackson Sawmill  
3019 244th NE  
Redmond, WA 98053  
Phone: (206) 868-6057

Tipsoo Enterprises  
29630 Kent-Kangley Road  
Ravensdale, WA 98051  
Phone: (206) 432-3210

Weyerhaeuser Company  
Enumclaw Sawmill  
Tacoma, WA 98401  
Phone: (206) 825-8100

Weyerhaeuser Company  
Snoqualmie Sawmill  
Tacoma, WA 98401  
Phone: (206) 888-2511

### KITSAP COUNTY

Pope & Talbot Inc.  
PO Box 217  
Port Gamble, WA 98364  
Phone: (206) 297-3341

### KLICKITAT COUNTY

Boise Cascade Corp.  
Goldendale Sawmill  
PO Box 51  
Yakima, WA 98901  
Phone: (509) 773-4343

Champion International Corp.  
PO Box 97  
Klickitat, WA 98628  
Phone: (509) 369-4501

Mt. Adams Timber Products  
PO Box 407  
Bingen, WA 98605  
Phone: (509) 493-2155

SDS Lumber Company  
PO Box 266  
Bingen, WA 98605  
Phone: (509) 492-2155

### LEWIS COUNTY

Alexander Lumber Mill  
1674 State Hwy 508  
Chehalis, WA 98532  
Phone: (206) 978-4117

Cowlitz Stud Co.  
Morton Mill  
PO Box 21785  
Seattle, WA 98111  
Phone: (206) 682-7262

Cowlitz Stud Co.  
Randle Mill  
PO Box 21785  
Seattle, WA 98111  
Phone: (206) 682-7262

Gardner Mill  
424 Peters Road  
Randle, WA 98377  
Phone: (206) 497-4042

Packwood Lumber Co.  
PO Box 21785  
Seattle, WA 98111  
Phone: (206) 682-7262

Tubafor Mill Inc.  
PO Box U  
Morton, WA 98356  
Phone: (206) 496-6777

Weyerhaeuser Company  
Centralia Hardwood Sawmill  
Tacoma, WA 98477  
Phone: (206) 736-2811

WTD Industries  
Champion Building Products  
1700 C-2 Cooper Point Road  
PO Box 10058  
Olympia, WA 98502  
Phone: (206) 496-5125

#### MASON COUNTY

Little Skookum Mill  
780 W Hwy 108  
Shelton, WA 98584  
Phone: (206) 426-6041

Olympic Peninsula Hardwood  
PO Box 253  
Shelton, WA 98584  
Phone: (206) 426-3464

Simpson Timber Company  
3rd and Franklin  
Shelton, WA 98584  
Phone: (206) 426-3381

#### OKANOGAN COUNTY

Cavenham Forest Industries  
Inc.  
Route 2, Box 54  
Omak, WA 98841  
Phone: (509) 826-1460

Colville Indian Precision Pine  
Co.  
PO Box 3293  
Omak, WA 98841  
Phone: (509) 826-1921

Charles E. Dagnon  
Route 2, Box 288  
Okanogan, WA 98840  
Phone: (509) 422-2943

Zosel Lumber Co.  
PO Box 580  
Oroville, WA 98844  
Phone: (509) 476-2111

#### PACIFIC COUNTY

Weyerhaeuser Company  
Raymond Sawmill  
Tacoma, WA 98401  
Phone: (206) 942-2442

#### PIERCE COUNTY

Commencement Bay Mill Co.  
PO Box 1276  
Tacoma, WA 98401  
Phone: (206) 383-8858

Louisiana-Pacific Corp.  
Tacoma Accounting  
PO Box 4000-98  
Hayden Lake, ID 83835  
Phone: (206) 383-2424

Manke Lumber Company  
13702 8th Street East  
Summer, WA 98356  
Phone: (206) 863-4495

Manke Lumber Company  
1750 Marine View Drive  
Tacoma, WA 98422  
Phone: (206) 572-6252

Paxport Mills Inc.  
300 Middle Waterway  
Tacoma, WA 98421  
Phone: (206) 272-0305

Portac Inc.  
4215 East West Road  
Tacoma, WA 98421  
Phone: (206) 922-9900

#### SAN JUAN COUNTY

Bond Lumber  
St Rt, Box 60  
Olga, WA 98279  
Phone: (206) 376-4123

#### SKAGIT COUNTY

Goodyear Nelson Hardwood  
PO Box 71  
Sedro Woolley, WA 98284  
Phone: (206) 856-0816

Snow Mountain Mills  
1488 Valley View Drive  
Mount Vernon, WA 98273  
Phone: (206) 424-4125

WTD Industries  
Sedro Woolley Lumber Co.  
1700 C-2 Cooper Point Road  
PO Box 10058  
Olympia, WA 98502  
Phone: (206) 855-2125

#### SKAMANIA COUNTY

Broughton Lumber  
Underwood, WA 98561  
Phone: (509) 493-2733

#### SNOHOMISH COUNTY

Arlington Forest Products Inc.  
PO Box 3189  
Arlington, WA 98223  
Phone: (206) 435-8525

Beck Mill Company  
2105 276th Street NW  
Stanwood, WA 98292  
Phone: (206) 629-3236

Buse Timber Sales  
3812 28th Place NE  
Marysville, WA 98270  
Phone: (206) 258-2577

Canyon Lumber Company  
PO Box 1246  
Everett, WA 98206  
Phone: (206) 259-6036

Enterprise Lumber  
25503 Ainot Road  
Arlington, WA 98223  
Phone: (206) 435-5733

Fritch Mill Inc.  
18605 Waverly Drive  
Snohomish, WA 98290  
Phone: (206) 481-4157

Garka Mill Company  
60 State Avenue  
Marysville, WA 98270  
Phone: (206) 659-8584

Husby Farm & Mill  
822 Knutson Road  
Arlington, WA 98223  
Phone: (206) 652-7307

Liberty Lumber Company  
PO Box 3158  
Arlington, WA 98223  
Phone: (206) 435-8816

Loth Lumber Company  
PO Box 389  
Gold Bar, WA 98251  
Phone: (206) 793-1135

Maltby Mill Company  
19311 Broadway  
Snohomish, WA 98290  
Phone: (206) 668-6527

Monroe Lumber Company  
544 Simon Road  
Monroe, WA 98272  
Phone: (206) 794-6090

Seattle Snohomish Mill  
PO Box 949  
Snohomish, WA 98290  
Phone: (206) 568-2161

Smith Street Mill  
3600 Smith Street  
Everett, WA 98201  
Phone: (206) 252-7191

Summit Timber Company  
PO Box 368  
Darrington, WA 98241  
Phone: (206) 436-1411

Welco Lumber Company  
PO Box 125  
Marysville, WA 98270  
Phone: (206) 659-1261

Weyerhaeuser Company  
Arlington Hardwood Sawmill  
Tacoma, WA 98477  
Phone: (206) 435-8502

#### SPOKANE COUNTY

Mitcham's Sawmill  
Route 1, Box 329  
Mead, WA 99021

Reames Sawmill  
Route 2  
Chatteroy, WA 99003  
Phone: (509) 238-6108

#### STEVENS COUNTY

Bean Lumber Company  
Chewelah, WA 99109  
Phone: (509) 935-6304

Boise Cascade Corp.  
PO Box 310  
Kettle Falls, WA 99141  
Phone: (509) 738-6421

John Chopot Lumber Co.  
PO Box 206  
Colville, WA 99114  
Phone: (509) 684-4569

Plum Creek Inc.  
Arden Mill  
Route 3, Box 180  
Colville, WA 98114  
Phone: (509) 684-5084

Ron's Mill  
PO Box 7  
Northport, WA 99157  
Phone: (509) 732-4387

Ross Pallet Shop  
Route 2, Box 85  
Chewelah, WA 99109  
Phone: (509) 935-8413

Springdale Lumber Company  
PO Box 176  
Springdale, WA 99173  
Phone: (509) 258-4572

Vaagen Brothers Lumber  
Colville, Ione and Republic  
Mills  
PO Box 515  
Colville, WA 99114  
Phone: (509) 684-5071

Webley Lumber  
PO Box 234  
Marcus, WA 99151  
Phone: (509) 684-3980

Zerba Brothers  
Route 1, Box 48  
Addy, WA 99101  
Phone: (509) 935-6641

#### THURSTON COUNTY

Cascade West Forest Products  
PO Box 4158  
Turnwater, WA 98501  
Phone: (206) 352-1548

Pfaff Quality Lumber  
9115 Old Hwy 99 SE  
Olympia, WA 98501  
Phone: (206) 943-3098

WTD Industries  
Olympia Forest Products  
1700 C-2 Cooper Point Road  
PO Box 10058  
Olympia, WA 98502  
Phone: (206) 754-0348

#### WALLA WALLA COUNTY

Edwards Sawmill  
Route 1, Box 311  
Walla Walla, WA 99362  
Phone: (509) 529-7292

Louisiana Pacific Corp.  
Walla Walla Accounting  
PO Box 4000-98  
Hayden Lake, ID 83835  
Phone: (509) 529-0200

#### WHATCOM COUNTY

Bormuth & Robbins  
Barrell Springs Mill  
146 Barrel Springs Road  
Bellingham, WA 98225

Great Western Lumber  
PO Box 158  
Everson, WA 98247  
Phone: (206) 966-3061

Marvin Johnson  
3211 Grand View Road  
Ferndale, WA 98248  
Phone: (206) 366-5310

#### YAKIMA COUNTY

Boise Cascade Corp.  
PO Box 51  
Yakima, WA 98907  
Phone: (509) 453-3131

Layman Lumber  
PO Box 235  
Naches, WA 98937  
Phone: (509) 653-2221

White Swan Lumber Company  
PO Box 547  
White Swan, WA 98952  
Phone: (509) 874-2144

## Shake and Shingle Mills

#### CLALLAM COUNTY

B & W Shake Company  
PO Box 368  
Forks, WA 98331  
Phone: (206) 374-5710

Berg Shake  
Route 1, Box 664  
Forks, WA 98331  
Phone: (206) 374-9399

Blankenship Shake  
PO Box 2097  
Forks, WA 98331  
Phone: (206) 374-5705

C & L Shake & Shingle  
1472 Airport Road  
Port Angeles, WA 98362  
Phone: (206) 457-9081

C & R Cedar  
RR 1, Box 151  
Forks, WA 98331  
Phone: (206) 374-5316

C & R Shingle  
PO Box 242  
Beaver, WA 98305  
Phone: (206) 374-5703

D & D Cedar Products  
6015 Hwy 112 West  
Port Angeles, WA 98362  
Phone: (206) 928-3653

D & R Cedar  
PO Box 269  
Forks, WA 98331  
Phone: (206) 374-9283

Fair Shake  
PO Box 1266  
Forks, WA 98331  
Phone: (206) 374-6098

Forks Shake  
PO Box 1159  
Forks, WA 98331  
Phone: (206) 374-9086

Gunter Shake  
PO Box 206  
Forks, WA 98331  
Phone: (206) 645-2201

Hickam Shake Company  
HC 80 Box 1816  
Forks, WA 98331  
Phone: (206) 962-3375

Hinchen Brothers Shingle  
PO Box 2116  
Forks, WA 98331  
Phone: (206) 374-9429

Hollywood Shake  
PO Box 1984  
Forks, WA 98331  
Phone: (206) 374-5898

Hop's Cedar Products  
Route 1, Box 8  
Clallam Bay, WA 98326  
Phone: (206) 963-2584

Hurley Shake  
PO Box 642  
Forks, WA 98331  
Phone: (206) 374-5223

J N R Shake  
HC 79 Box 380  
Forks, WA 98331  
Phone: (206) 374-6598

L P II Inc.  
PO Box 1729  
Forks, WA 98331  
Phone: (206) 374-6320

Lakeview Building Products  
PO Box 68  
Beaver, WA 98305  
Phone: (206) 327-3515

Marala Shingle & Shake Company  
Route 2, Box 1040  
Sekiu, WA 98381  
Phone: (206) 963-2619

Midnight Shake  
PO Box 457  
Forks, WA 98331  
Phone: (206) 374-6771

Nelson Cedar Products Inc.  
PO Box 1028  
Port Angeles, WA 98362  
Phone: (206) 928-3054

Newton Cedar  
PO Box 1519  
Forks, WA 98331  
Phone: (206) 374-5574

Pacific NW Cedar  
PO Box 757  
Forks, WA 98331  
Phone: (206) 374-6080

Sackett Cedar Products  
PO Box 246  
Beaver, WA 98305  
Phone: (206) 327-3375

Sherico Cedar Products  
PO Box 511  
Forks, WA 98331

Sol Duc Shake  
PO Box 127  
Beaver, WA 98305  
Phone: (206) 374-6555

Star Cedar Products  
Route 11, Box 880  
Forks, WA 98331  
Phone: (206) 374-6279

Sunshine Shake  
PO Box 1219  
Forks, WA 98331  
Phone: (206) 327-3566

T D Shake  
PO Box 955  
Forks, WA 98331  
Phone: (206) 374-6890

#### CLARK COUNTY

Carpenter and Sons  
Route 2, Box 381  
La Center, WA 98629  
Phone: (206) 263-2254

Conder Shake  
22118 Abernathy Road  
Yacolt, WA 98675  
Phone: (206) 686-3676

Turner Logging  
Route 1, Box 545  
Amboy, WA 98601  
Phone: (206) 247-5985

#### COWLITZ COUNTY

A & J Shake & Shingle  
2888 Rose Valley Road  
Kelso, WA 98626  
Phone: (206) 423-9360

Aiken Shake Company  
3844 Spirit Lake Hwy  
Silverlake, WA 98645  
Phone: (206) 274-4359

Longview Booming Company  
PO Box 1085  
Longview, WA 98632  
Phone: (206) 423-1411

Strange Shake Mill  
218 Si-Town Road  
Castle Rock, WA 98611

Wasser & Fluher  
PO Box 215  
Kalama, WA 98625  
Phone: (206) 673-3025

#### GRAYS HARBOR COUNTY

Anderson-Middleton Lumber  
PO Box 240  
Hoquiam, WA 98550  
Phone: (206) 533-2410

Aloha Shake Company  
PO Box 372  
Pacific Beach, WA 98571  
Phone: (206) 276-4562

B & J Shake  
PO Box 508  
Oakville, WA 98552  
Phone: (206) 273-9120

Barn Shake  
Route 3, Box 1148  
Hoquiam, WA 98550  
Phone: (206) 289-3689

Bayview Cedar Products  
PO Box 26  
Hoquiam, WA 98550  
Phone: (206) 538-0270

Bob-Cat Cedar  
Route 3, Box 1240  
Hoquiam, WA 98550  
Phone: (206) 987-2353

Al Coppin Ridge Company  
Route 2, Box 141-I  
Hoquiam, WA 98550  
Phone: (206) 532-0580

Michael C. Crites  
51 Monte-Aberdeen Road  
Montesano, WA 98563  
Phone: (206) 249-3324

D & H Cedar  
Route 3, Box 1303  
Hoquiam, WA 98550  
Phone: (206) 987-2326

Daniels Cedar Products  
1506 Laura Street  
Aberdeen, WA 98520  
Phone: (206) 532-9114

Steven Dzuibak  
PO Box 387  
Moclips, WA 98562  
Phone: (206) 987-2555

A E Erickson Enterprises  
Amanda Park Operation  
2733 Bank of California Center  
Seattle, WA 98164  
Phone: (206) 682-1461

Grays Harbor Shake  
96E Elma-Hoquiam Road  
Hoquiam, WA 98550  
Phone: (206) 495-3009

J & J Shake Company  
Route 1, Box 14  
Humptulips, WA 98552  
Phone: (206) 288-2693

JV Shake  
PO Box 631  
Copalis Crossing, WA 98536  
Phone: (206) 289-2821

LAD Shake  
Route 3, Box 21B  
Copalis Crossing, WA 98536  
Phone: (206) 289-3744

Marshall Wells Shake  
Company  
Route 2, Box 51A  
Amanda Park, WA 98526  
Phone: (206) 288-2841

Metcalf Brothers Shake  
PO Box 689  
Amanda Park, WA 98526  
Phone: (206) 288-2245

L G Moore Shake  
PO Box 48  
Montesano, WA 98563  
Phone: (206) 249-4319

Ted R. Morrison & Partners  
53 W Wildcat Road  
McCleary, WA 98557  
Phone: (206) 495-3906

Northwest Shake Company  
PO Box 362  
Hoquiam, WA 98550  
Phone: (206) 532-7638

North Hoquiam Cedar  
PO Box 118  
Hoquiam, WA 98550  
Phone: (206) 532-8887

Pacific Logging  
Route 1, Box 140  
Humptulips, WA 98552  
Phone: (206) 288-2554

Parker & Sons  
PO Box 218  
Copalis Crossing, WA 98536  
Phone: (206) 289-2420

Peterson Shake Company  
PO Box L  
Amanda Park, WA 98526  
Phone: (206) 288-2474

Post Shake Company Inc.  
334 Monte-Elma Road  
Montesano, WA 98563  
Phone: (206) 249-3464

Quinsault Shingle & Lumber  
PO Box 28  
Amanda Park, WA 98526  
Phone: (206) 288-2816

Rockport Log & Shake  
PO Box 673  
Copalis Crossing, WA 98536  
Phone: (206) 289-2377

#208 Shake & Shingle  
Company  
PO Box 208  
Moclips, WA 98562  
Phone: (206) 276-4122

#### JEFFERSON COUNTY

K & H Shake Company  
4660 Discovery Road  
Port Townsend, WA 98368  
Phone: (206) 385-5154

#### LEWIS COUNTY

B & P Cedar  
PO Box 314  
Pe Ell, WA 98572

Hamrick Shake  
PO Box 103  
Onalaska, WA 98570  
Phone: (206) 978-4392

KY & J Shake  
165 Ribelin Road  
Chehalis, WA 98532  
Phone: (206) 748-7766

Norman Shake Mill  
997 Koontz Road  
Chehalis, WA 98532  
Phone: (206) 262-3475

P & L Shake  
619 Reynolds Avenue  
Centralia, WA 98530  
Phone: (206) 736-5544

Page Shake Company  
PO Box 161  
Mineral, WA 98355  
Phone: (206A) 492-5971

Reichert Shake Mill  
424 Burchett Road  
Onalaska, WA 98570  
Phone: (206) 864-6434

Robertson Shake Mill  
365 NW Chehalis Avenue  
Chehalis, WA 98532  
Phone: (206) 748-9411

Valentine Shake  
650 State Hwy 508  
Chehalis, WA 98532  
Phone: (206) 262-3232

Wilson Shake Mill  
127 Schreiner Road  
Chehalis, WA 98532  
Phone: (206) 262-3893

#### PACIFIC COUNTY

Bryant Shake Company  
944 Ash  
Raymond, WA 98577

Hidden Valley  
Route 1, Box 715  
Raymond, WA 98577  
Phone: (206) 942-2726

Timberland Cedar Products  
PO Box 83  
South Bend, WA 98586  
Phone: (206) 875-6432

#### PIERCE COUNTY

A & B Shake  
PO Box 103  
Clear Lake, WA 98235  
Phone: (206) 856-0827

Kapowsin Shake Mill  
PO Box 22  
Kapowsin, WA 98344  
Phone: (206) 879-5520

Rainier Shake & Cedar Mfg.  
PO Box 829  
Enumclaw, WA 98022  
Phone: (206) 829-2115

#### SKAGIT COUNTY

Arlo Cedar Products  
3255 Hamilton Cemetery Road  
Sedro Woolley, WA 98284  
Phone: (206) 826-3484

Blacker Shake  
22205 SR 530 NE  
Arlington, WA 98223  
Phone: (206) 435-3704

Can't Hardly Shake  
3885 Challenger Road  
Concrete, WA 98237  
Phone: (206) 826-3382

Cape Horn Shake  
760 Scout Paper Road  
Sedro Woolley, WA 98284  
Phone: (206) 826-4322

Christenson Brothers Shake  
1557D Memorial Hwy  
Mt. Vernon, WA 98273  
Phone: (206) 424-8766

Dukes Hill Shake Mill  
2115 Hoogdal  
Sedro Woolley, WA 98284  
Phone: (206) 856-2197

Hamilton Cedar Products Inc.  
3206 Hamilton Cemetery Road  
Sedro Woolley, WA 98284  
Phone: (206) 826-3785

Hum Shingle Company  
5012 Sauk Valley Road  
Concrete, WA 98237  
Phone: (206) 853-8151

Hy-Ka Shake Mill  
3125 Highway 20  
Sedro Woolley, WA 98284  
Phone: (206) 826-3576

Iron Mountain Cedar Products  
Inc.  
PO Box 21  
Hamilton, WA 98255  
Phone: (206) 826-4181

Jones Shake and Logging  
Company  
Star Route  
Rockport, WA 98283  
Phone: (206) 873-4044

La Conner Cedar Inc.  
PO Box 329  
La Conner, WA 98257  
Phone: (206) 466-3903

Northwest Cedar Inc.  
415 Pacific Street  
Sedro Woolley, WA 98284  
Phone: (206) 855-0227

Superior Shake  
PO Box 339  
Concrete, WA 98237  
Phone: (206) 853-8451



**SNOHOMISH COUNTY**

Christensen Cedar Products  
15612 Jim Creek Road  
Arlington, WA 98220  
Phone: (206) 435-4001

Double A Shake  
4908 133rd Place NE  
Marysville, WA 98270  
Phone: (206) 259-3317

Maxine M. Fadden  
PO Box 37  
Startup, WA 98293  
Phone: (206) 793-1465

Ford Cedar Products  
33021 Cemetery Road  
Sultan, WA 98204  
Phone: (206) 793-1313

Lind Shake  
22820 15th Avenue  
Arlington, WA 98223  
Phone: (206) 652-9239

Mani Cedar Products Inc.  
11110 228th Street NE  
Arlington, WA 98223  
Phone: (206) 435-4706

Dale Olson  
16317 83rd Street NE  
Lake Stevens, WA 98258  
Phone: (206) 691-6205

Pugsley Cedar Products  
4713 123rd Avenue NE  
Lake Stevens, WA 98258  
Phone: (206) 334-2868

Shultz Cedar Products  
27621 Third Avenue NE  
Arlington, WA 98223  
Phone: (206) 629-2772

Snohomish Shake Company  
4716 139th Avenue SE  
Snohomish, WA 98290

Son Cedar Products  
PO Box 648  
Darrington, WA 98241  
Phone: (206) 436-1437

State Roofing  
PO Box 53  
Monroe, WA 98272  
Phone: (206) 794-7164

**STEVENS COUNTY**

Peninsula Wood Products  
PO Box 45  
Loon Lake, WA 99148  
Phone: (509) 233-2440

**WAHKLAKUM COUNTY**

Anderson Shake & Shingle  
PO Box 1  
Cathlamet, WA 98612  
Phone: (206) 795-3446

B and M Wood Products  
428 State Highway 407  
Cathlamet, WA 98612  
Phone: (206) 795-3380

Rosburg Shake Company  
PO Box 377  
Rosburg, WA 98643  
Phone: (206) 465-2265

**WHATCOM COUNTY**

A & P Cedar  
5783 Mt. Baker Highway  
Deming, WA 98244  
Phone: (206) 592-5225

Terri's Shake Mill  
593 Innis Creek  
Acme, WA 98220  
Phone: (206) 595-2472

**Veneer and Plywood Mills****SOUTH PUGET SOUND AREA**

Anacortes Plywood Inc.  
PO Box 68  
Anacortes, WA 98221  
Phone: (206) 293-8424

Buffelen Woodworking  
PO Box 1383  
Tacoma, WA 98401  
Phone: (206) 627-1191

Custom Panel Inc.  
PO Box 236  
Arlington, WA 98223  
Phone: (206) 435-6603

Mt. Baker Plywood Inc.  
PO Box 997  
Bellingham, WA 98227  
Phone: (206) 733-3960

Puget Sound Plywood  
PO Box 1378  
Tacoma, WA 98401  
Phone: (206) 627-4111

Weyerhaeuser Company  
Snoqualmie Mill  
Tacoma, WA 98401  
Phone: (206) 888-2511

**OLYMPIC PENINSULA AREA**

Agnew Lumber Company  
1911 Central Blvd.  
Centralia, WA 98531  
Phone: (206) 736-8211

Allen Logging/Veneer  
HC 80 Box 736  
Forks, WA 98331  
Phone: (206) 374-6000

Grays Harbor Veneer  
Anderson/Middleton Lumber  
PO Box 239  
Hoquiam, WA 98550  
Phone: (206) 532-3540

Hardel Mutual Plywood Corp.  
PO Box 365  
Olympia, WA 98506  
Phone: (206) 754-6030

Hoquiam Plywood Co. Inc.  
PO Box 737  
Hoquiam, WA 98550  
Phone: (206) 533-3060

Lacey Plywood Company  
PO Box 3308  
Lacey, WA 98503  
Phone: (206) 491-1450

North Pacific Plywood Inc.  
PO Box 38  
Graham, WA 98338  
Phone: (206) 847-8851

Peninsula Plywood  
439 Marine Drive  
Port Angeles, WA 98362

Simpson Timber Company  
Shelton Plywood  
3rd & Franklin  
Shelton, WA 98584  
Phone: (206) 426-3381

Solid Wood Inc.  
PO Box 1628  
Olympia, WA 98507  
Phone: (206) 943-4335

Max West Inc.  
PO Box 217  
Randle, WA 98377  
Phone: (206) 497-5121

**LOWER COLUMBIA AREA**

Bingen Plywood Company  
PO Box 266  
Bingen, WA 98605  
Phone: (509) 493-2155

Ft. Vancouver Plywood  
PO Box 289  
Vancouver, WA 98660  
Phone: (206) 644-3368

Stevenson Co. Plywood Inc.  
PO Box F  
Stevenson, WA 98648  
Phone: (509) 427-5621

Weyerhaeuser Company  
Longview Veneer  
Tacoma, WA 98477  
Phone: (206) 425-2150

**CENTRAL WASHINGTON AREA**

Alpine Veneers  
PO Box 11  
Roslyn, WA 98941  
Phone: (509) 649-2251

Baker Land Company Inc.  
PO Box GGG  
Oroville, WA 98844  
Phone: (509) 476-3260

Boise Cascade Corporation  
Yakima Plywood Mill  
PO Box 51  
Yakima, WA 98907  
Phone: (509) 453-3131

Cavenham Forest Industries  
Route 2, Box 54  
Omak, WA 98841  
Phone: (509) 826-1460

**INLAND EMPIRE AREA**

Boise Cascade  
PO Box 310  
Kettle Falls, WA 99141  
Phone: (509) 738-6421

**Pulp Mills****PUGET SOUND AREA**

Boise Cascade Corporation  
PO Box W  
Steilacoom, WA 98388  
Phone: (206) 588-2115

Georgia Pacific Corporation  
PO Box 1236  
Bellingham, WA 98225  
Phone: (206) 733-4410

Simpson Tacoma Kraft  
Company  
PO Box 2133  
Tacoma, WA 98401  
Phone: (206) 572-2150

Weyerhaeuser Company  
Everett Sulfate  
Tacoma, WA 98401  
Phone: (206) 924-2037

**OLYMPIC PENINSULA AREA**

ITT Rayonier Inc.  
PO Box 299  
Hoquiam, WA 98550  
Phone: (206) 532-1410

ITT Rayonier Inc.  
PO Box 191  
Port Angeles, WA 98362  
Phone: (206) 457-3391

James River  
PO Box 271  
Port Angeles, WA 98362  
Phone: (206) 457-4474

Port Townsend Paper  
Corporation  
PO Box 3170  
Port Townsend, WA 98368  
Phone: (206) 842-0611

Weyerhaeuser Company  
Cosmopolis Sulfite  
Tacoma, WA 98401  
Phone: (206) 532-7110

#### LOWER COLUMBIA AREA

James River  
Fourth and Adams  
Camas, WA 98607  
Phone: (206) 834-3021

Longview Fibre Company  
PO Box 639  
Longview, WA 98632  
Phone: (206) 425-1550

Norpac  
PO Box 2069  
Longview, WA 98632  
Phone: (206) 636-6400

Weyerhaeuser Company  
Longview Pulp  
Tacoma, WA 98401  
Phone: (206) 425-2150

#### INLAND EMPIRE AREA

Boise Cascade Corporation  
PO Box 500  
Wallula, WA 99363  
Phone: (509) 545-3342

Inland Empire Paper Company  
N 3320 Argonne  
Spokane, WA 99206  
Phone: (509) 924-1911

#### Post, Pole and Piling Mills

#### PUGET SOUND AREA

J. H. Baxter  
Arlington, WA 98223  
Phone: (206) 435-2146

McFarland Cascade  
PO Box 1496  
Tacoma, WA 98401  
Phone: (206) 572-3033

Novelty Cedar Products  
Company  
3008 NE 185th Street  
Seattle, WA 98155  
Phone: (206) 362-7467

The Oeser Company  
Bellingham, WA 98227  
Phone: (206) 734-1480

#### OLYMPIC PENINSULA AREA

Ted Butcher  
PO Box 996  
Sequim, WA 98382  
Phone: (206) 683-5255

D. H. Knudsen Pole Company  
PO Box K  
Shelton, WA 98584  
Phone: (206) 426-6350

McFarland Cascade  
Olympia Plant  
PO Box 1496  
Tacoma, WA 98401  
Phone: (206) 572-3033

Pacific Lumber and Shipping  
Napavine Mill  
Rochester Mill  
18146 Dallas Street  
Rochester, WA 98579  
Phone: (206) 273-5541

#### LOWER COLUMBIA AREA

Pacific Wood Treating  
Corporation  
111 W Division Street  
Ridgefield, WA 98642  
Phone: (206) 887-3562

#### INLAND EMPIRE AREA

Chewelah Log and Post  
North 408 Ehorn Lane  
Chewelah, WA 99109  
Phone: (509) 935-8341

Colville Post & Poles Inc.  
Route 2, Box 151  
Colville, WA 99114  
Phone: (509) 684-6363

Spokane Tribal Wood Products  
PO Box 237  
Wellpinit, WA 99040  
Phone: (509) 258-4581

## Log Exporters

Ataka Lumber America Inc.  
One Main Place, Suite 1450  
101 SW Main Street  
Portland, OR 97204  
Phone: (503) 226-3703

Norman Barnes &  
Company, Inc.  
for Sanyo-Kokusaku  
Pulp Co., Ltd.  
210 Norton Building  
Seattle, WA 98104  
Phone: (206) 624-4694

Dong Wha Enterprises  
710 Second Avenue  
Suite 667  
Seattle, WA 98104  
Phone: (206) 223-1096

Emachu (U.S.A.) Inc.  
Suite 708  
600 Stewart Street  
Seattle, WA 98101  
Phone: (206) 448-3222

Futian International USA Inc.  
700 108th NE  
Bellevue, WA 98004  
Phone: (206) 451-3838

General Trading Inc.  
4208 198th SW  
Lynnwood, WA 98036  
Phone: (206) 771-3300

Hyundai ARI  
10900 NE Fourth #145  
Bellevue, WA 98004  
Phone: (206) 455-0124

C. Itoh and Company  
2701 900 Fourth Avenue  
Seattle, WA 98164  
Phone: (206) 623-3764

ITT Rayonier Corporation  
PO Box 1625  
Port Angeles, WA 98362  
Phone: (206) 452-1351

ITT Rayonier  
18000 Pacific Hwy South  
Suite 900  
Seattle, WA 98188  
Phone: (206) 532-1410

J. Pac Inc.  
718 Hindley Lane  
Edmonds, WA 98020  
Phone: (206) 774-9720

Kawasho Int'l (USA) Inc.  
411 Denny Bldg.  
2200 6th Avenue  
Seattle, WA 98121  
Phone: (206) 448-0488

Kenmotsu  
Suite 2001  
2821 Second Avenue  
Seattle, WA 98121  
Phone: (206) 382-1338

Kobayashi America Inc.  
1700 First Interstate Plaza  
Tacoma, WA 98402  
Phone: (206) 272-2251

Lever Corporation  
16 California Street  
San Francisco, CA 94111  
Phone: (415) 398-8666

Marubeni America Corporation  
999 Third Avenue # 3201  
Seattle, WA 98104  
Phone: (206) 344-5573

Marukyo Seattle Inc.  
PO Box 12246  
Seattle, WA 98112  
Phone: (206) 329-4418

MD Trading  
PO Box 1475  
Moses Lake, WA 98837  
Phone: (509) 928-3371

Mitsubishi Int'l.  
2828 Sea First Building  
Seattle, WA 98154  
Phone: (206) 682-0744

Mitsui & Company (USA)  
2201 SFNB Building  
Seattle, WA 98154  
Phone: (206) 223-5660

Muscanto  
15935 NE 8th Street  
Bellevue, WA 98008  
Phone: (206) 643-9000

Nichimen America Inc.  
12310 NE 8th Street  
Bellevue, WA 98005  
Phone: (206) 453-1100

Nissho Iwai  
10777 Main Street #200  
Bellevue, WA 98004  
Phone: (206) 455-3365

ORCO International  
Portland, OR 97207  
Phone: (503) 227-7479

Okuyama Company  
2520 26th Avenue West  
Seattle, WA 98199  
Phone: (206) 285-0738

S & S Forestry  
321 16th Avenue S  
Seattle, WA 98144  
Phone: (206) 322-9380

Samm Corporation  
10900 NE Fourth Street #1925  
Bellevue, WA 98004  
Phone: (206) 451-8074

Sankyo Trading  
4613 105th NE  
Kirkland, WA 98033  
Phone: (206) 827-0450

Sato America Inc.  
500 Oregon Telco Building  
2125 SW Fourth Avenue  
Portland, OR 97201  
Phone: (503) 226-0010

Sumitomo Corporation of  
America  
800 Fifth Avenue  
Suite 3930  
Seattle, WA 98104  
Phone: (206) 623-5270

Sumitomo Forestry  
2725 Sea First Building  
1001 Fourth Avenue  
Seattle, WA 98154  
Phone: (206) 623-8840

Summit Timber Company  
PO Box 368  
Darrington, WA 98241  
Phone: (206) 436-1411

Sunshine Trading Company  
1611 116th NE  
Bellevue, WA 98004  
Phone: (206) 455-3210

TAT (USA) Corporation  
PO Box 808  
718 Hewitt Street  
Everett, WA 98206  
Phone: (206) 258-6711

Toymenka (America) Inc  
One Union Square  
2800 600 University Street  
Seattle, WA 98101  
Phone: (206) 682-4044

Tu Hsu  
1010 South 336th  
PO Box 6  
Federal Way, WA 98003  
Phone: (206) 874-4051

US Trading  
2020 SW Fourth  
Suite 615  
Portland, OR 97201  
Phone: (503) 221-1015

Washington Coastal Forest  
Products  
15935 NE 8th Street  
Bellevue, WA 98008  
Phone: (206) 643-9000

Wasser & Winters  
PO Box 396  
Longview, WA 98632  
Phone: (206) 423-1080

Weyerhaeuser Company  
Tacoma, WA 98401  
Phone: (206) 924-2774

Yuasa Trading  
1111 Third Avenue  
Suite 550  
Seattle, WA 98101  
Phone: (206) 223-0880

