

R E S O U R C E S

N A T U R A L

# WASHINGTON MILL SURVEY 1990

Report #12



\$10.00



WASHINGTON STATE DEPARTMENT OF  
**Natural Resources**

Jennifer M. Belcher - Commissioner of Public Lands  
Kaleen Cottingham - Supervisor

Division of Land & Water Conservation

## **ACKNOWLEDGEMENTS**

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

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# WASHINGTON MILL SURVEY 1990

Report #12

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May 1994

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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 1990. It documents the findings of the twelfth 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 operations
- \* shake and shingle mills
- \* log export operations

The 1990 statistics were compiled through a 1991 mail survey with telephone follow-up to nonrespondents. Firms contacted were based on an up-to-date mailing list.

Since this survey covers the entire industry, no sampling error is involved. However, some data had to be estimated from previous reports. In

total, this report provides the best and most reliable estimate of the status of wood-using industries in Washington as of 1990.

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 obtained were used to provide information on wood requirements for 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 1980 through 1990. Information about the hardwood industry is provided in the text, since this industry is not described separately in the appendix tables. Residue, commodity production, and wood consumption information is included in the report, since this helps track production and consumption trends.

## ABBREVIATIONS

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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
Square	= hundred square feet
M sq.	= thousand squares
M tons	= thousand tons
S.W.E.	= Solid wood equivalent



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# Washington Mill Survey - 1990





# Report Review

## Comparison of Past Years

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This section of the report reviews Washington's wood products industry during the past ten years. First, the number of milling operations is reported by year for the six surveys sectors. This is followed by a brief discussion of the 1988-90 period. Then a 10-year review is provided.

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

---

<u>Sectors</u>	<u>1980</u>	<u>1982</u>	<u>1984</u>	<u>1986</u>	<u>1988</u>	<u>1990</u>
Sawmills	208	169	150	117	118	106
Veneer and Plywood	34	27	28	26	23	23
Pulp	23	21	20	20	21	22
Shake and shingle	267	195	131	117	92	52
Post, pole and piling	21	13	11	13	11	10
Log export	<u>134</u>	<u>124</u>	<u>102</u>	<u>101</u>	<u>86</u>	<u>73</u>
Totals	687	549	442	394	351	286

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

---

### 1988-1990 in review

The total number of operations in the forest products industry decreased 19 percent from 1988 to 1990. Shake and shingle tumbled 43 percent; log export fell 15 percent; sawmills decreased 10 percent; and post, pole and piling slid 9 percent. Meanwhile, the veneer and plywood sector remained constant and the pulp sector increased 5 percent. In summary the veneer and plywood sector remained constant, the pulp sector increased, and four sectors declined.

Roundwood consumption of the sawmill sector declined 11 percent from 1988 to 1990. Lumber production, however, only declined 6 percent.

The log export sector share of total consumption remained constant at 41 percent for both 1988 and 1990. Log export volume, however, declined from 2.8 billion in 1988 to 2.4 billion board feet Scribner in 1990 (a 17 percent decline).

Douglas fir accounts for 50 percent of the harvest volume in 1990 an increase of 2 percent over 1988. Douglas fir increased its share of log export log consumption from 58 to 63 percent from 1988 to 1990.

Those mills -- more than two-thirds dependent on a single ownership class for log supply -- decreased from 161 in 1988 to 119 in 1990. The percentage of all operating mills more than two-thirds dependent on a single owner class declined from 46 percent in 1988 to 42 percent in 1990. Mills more than two-thirds dependent on public ownership decreased 28 percent; private ownership decreased 25 percent.

Total residue volume decreased from 6.2 million tons in 1988 to 5.7 million tons in 1990. Residue use decreased, from 6.1 million tons in 1988 to 5.6 million tons in 1990. The percentage of wood and bark residues remained the same in 1990 as in 1988 at 98 percent. The shake and shingle industry lagged substantially behind with the use of residues at only 31 percent.

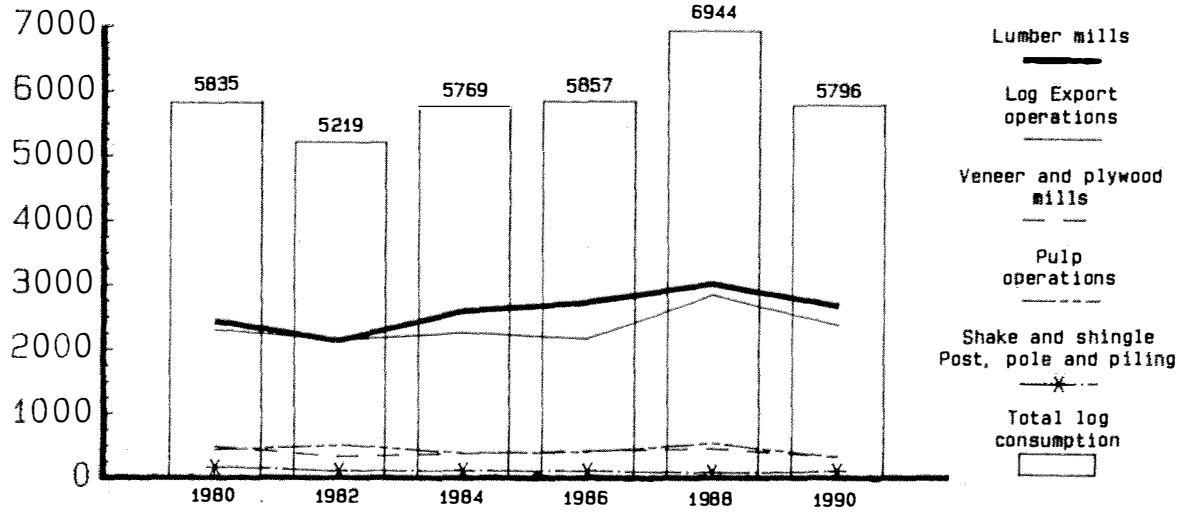
## 1980-1990 in Review

This section compares data developed from the 1980, 1982, 1984, 1986, 1988 and 1990 surveys. During this period the forest industry changed substantially. Consumption peaked at slightly more than 6.9 billion board feet in 1988; and the 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 accounted for over four-fifths of the log consumption for the survey years 1980-1990.

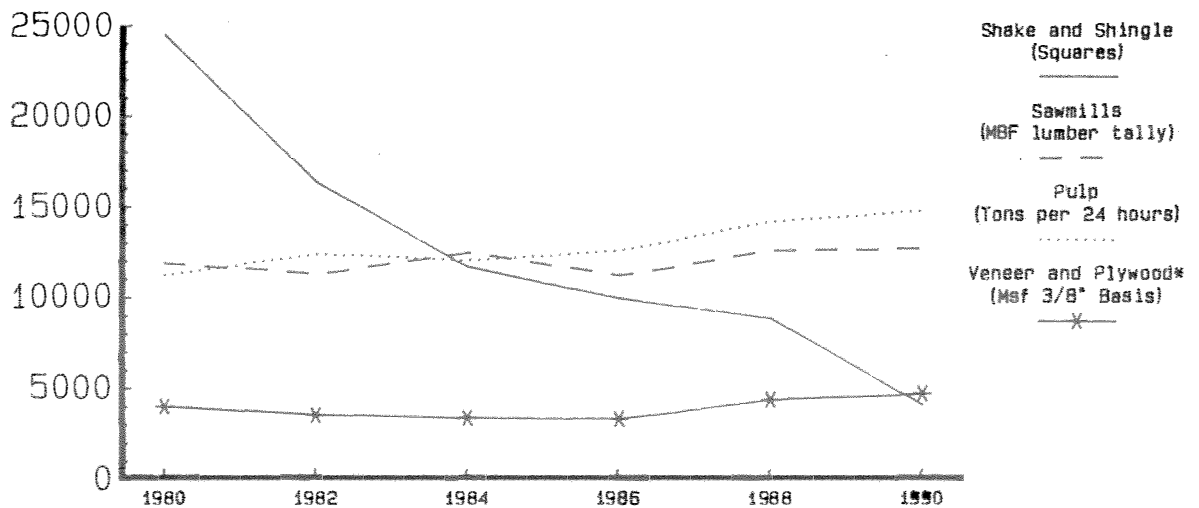
Installed shift capacity has fluctuated over time. For the lumber sector it peaked at 12.57 thousand board feet per eight-hour shift in 1990. The pulp industry has reached a new high for 24-hour capacity at 14,646 bone dry tons. This is an increase of 4 percent above 1988. For the veneer and plywood industry, the 10-year capacity high was in 1988 at 4.3 million square feet (3/8"basis) eight-hour veneer shift capacity and for 1990 it is 3.5 million square feet, about an 18 percent decline. 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 four thousand squares as of 1990, a capacity decline of over 80 percent in 10 years. This is an industry which greatly depends on the use of old growth western redcedar and is expected to continue to decline due to the scarcity of the old growth western redcedar.

## Total Log Consumption by Year and Industry

Million Board Feet, Scribner



## Installed Shift Capacity



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

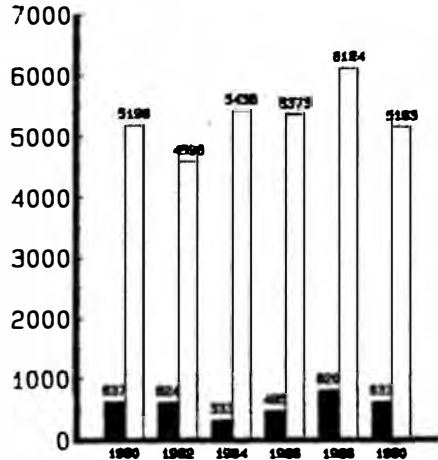
## Note

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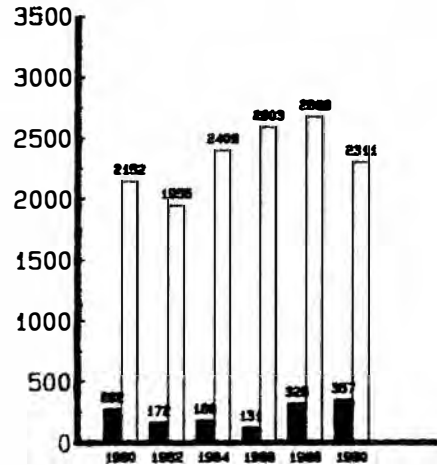
Roundwood consumption -- comparing sound and utility grades -- are shown in total and by sector. Utility logs accounted for 11 percent of total log consumption in 1990. For sawmills, 13 percent of consumption was utility grade, but few utility-grade logs were exported. Shake and shingle has especially turned to utility grade western redcedar because of the scarcity of old growth (over 100 year old) wood of this species. In 1990 slightly more than half of the shake and shingle volume was utility grade. The pulp industry uses over 60 percent utility grade logs. This makes a lot of sense because fiber for pulp is used to make paper products.

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

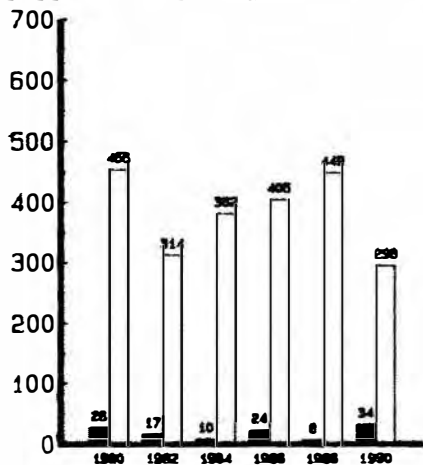
STATE TOTAL



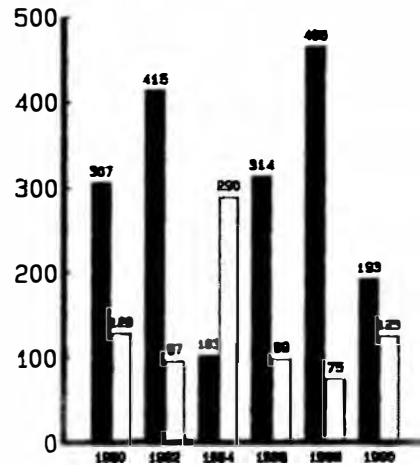
LUMBER



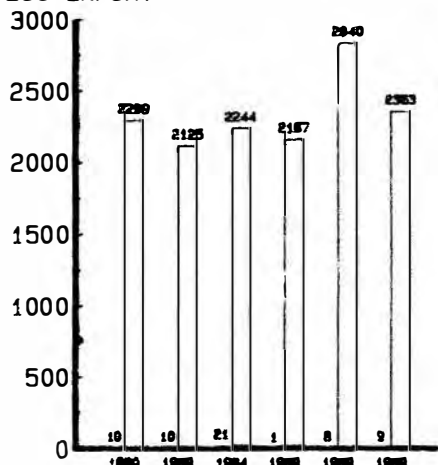
VENEER AND PLYWOOD



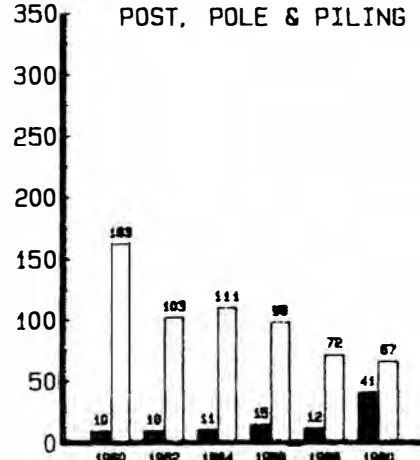
PULP



LOG EXPORT



SHAKE & SHINGLE;  
POST, POLE & PILING



■ Utility Logs    □ Sound logs

## Note

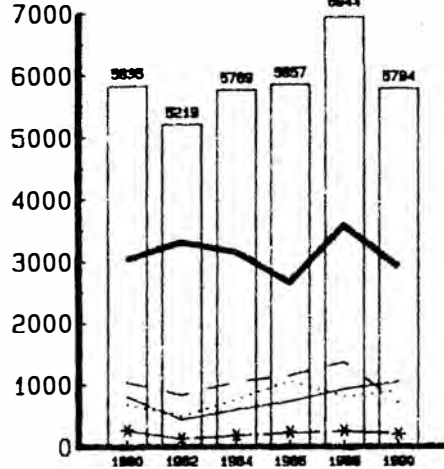
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Log consumption by owner class shows that forest industry is the single most important owner class in total. Forest industry's contribution during the past 10 years peaked in 1988 at 3.6 billion board feet Scribner. The forest industry throughout the 10 years has been the dominate supplier of logs to the lumber, pulp and log export sectors. Forest industry timber going to the shake and shingle industry has steadily declined with the old-growth timber on these lands.

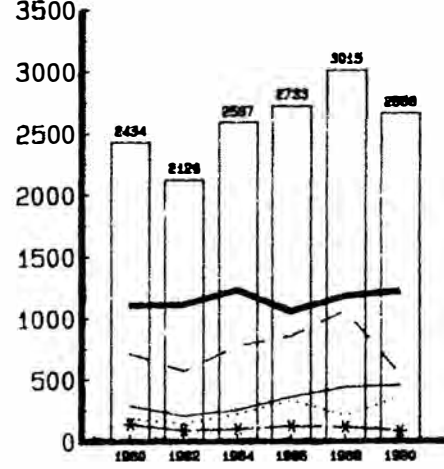
Historically, the national forests have been an important source of logs for the veneer and plywood industry. In 1986 nearly half of this industry's consumption came from the national forests. In 1990, however, it had declined to about one-fourth. Since 1988 the forest industry has been the most important single log source for the veneer and plywood sector.

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

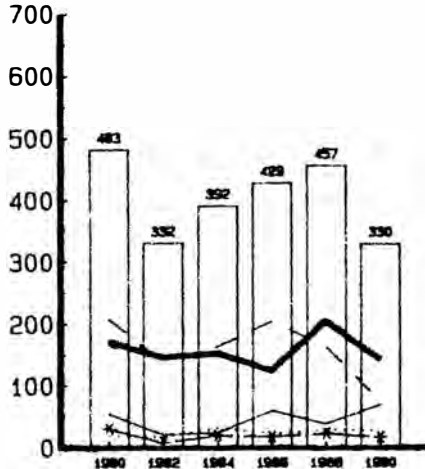
STATE TOTAL



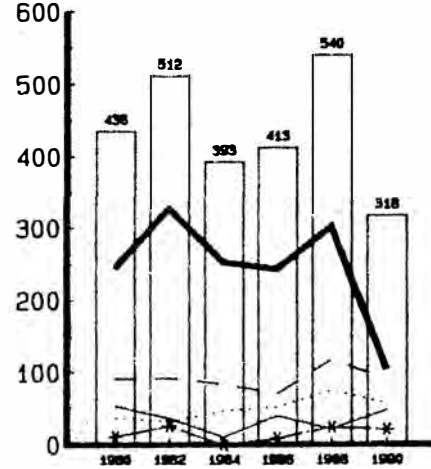
LUMBER



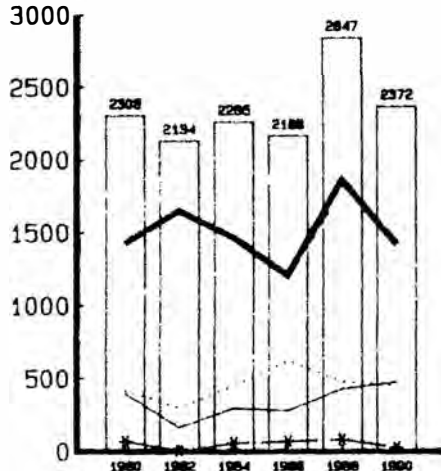
VENEER & PLYWOOD



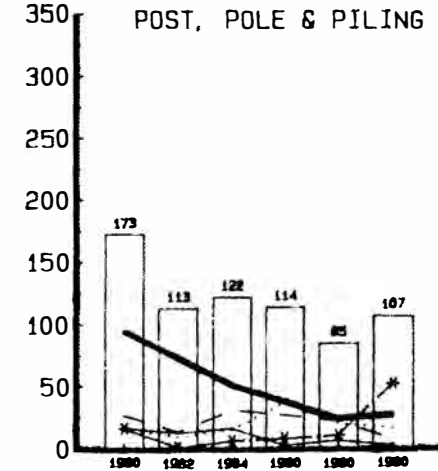
PULP



LOG EXPORT



SHAKE & SHINGLE



Forest Industry

National Forest

State

Farmer & misc. private

Other public

Total log consumption

## Note

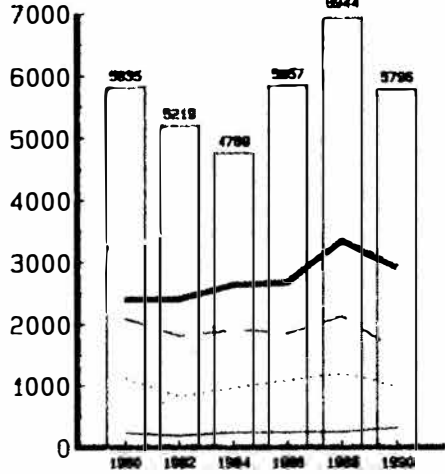
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Douglas fir was the most important single species throughout the 10-year period with about half the consumed volume. Hemlock has been a strong second place species with nearly one-third of the total. Together they account for almost four-fifths of the log consumption. Douglas fir has been the dominant species for the lumber, the veneer and plywood, and log export sectors. 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 during the 1980s and 1990.

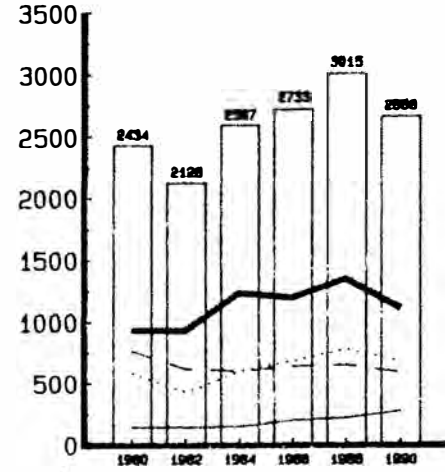


# Log Consumption by Species (Million board feet, Scribner)

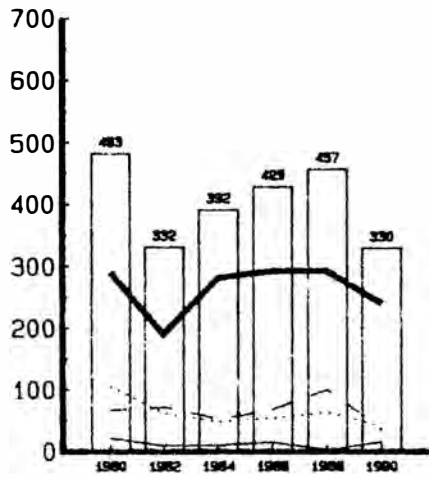
STATE TOTAL



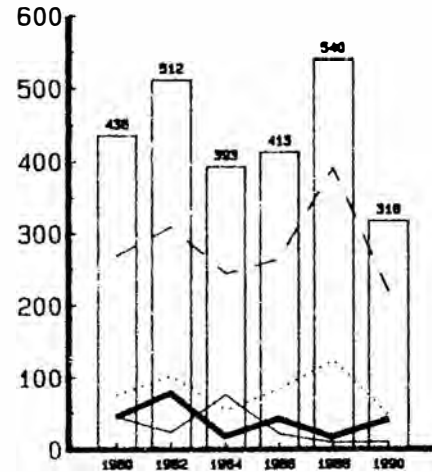
LUMBER



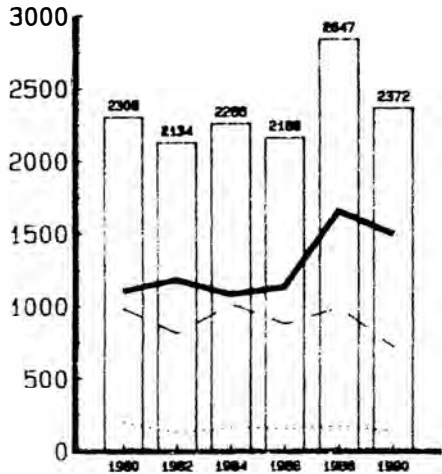
VENEER & PLYWOOD



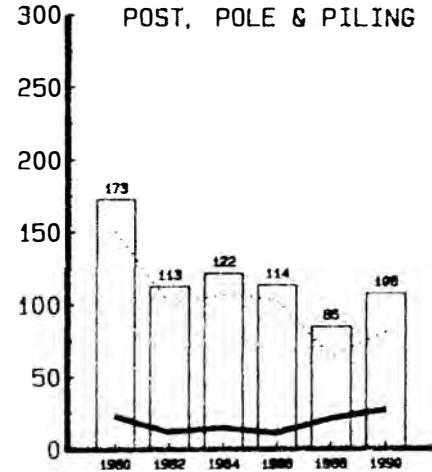
PULP



LOG EXPORT



SHAKE & SHINGLE



Douglas fir      Hemlock      Other softwoods      Hardwoods

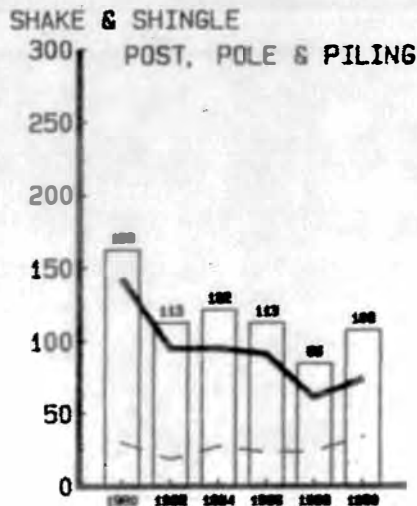
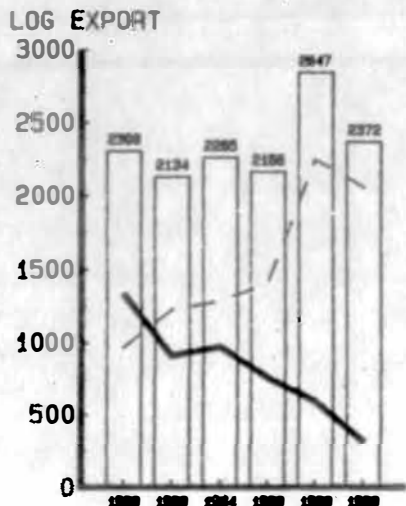
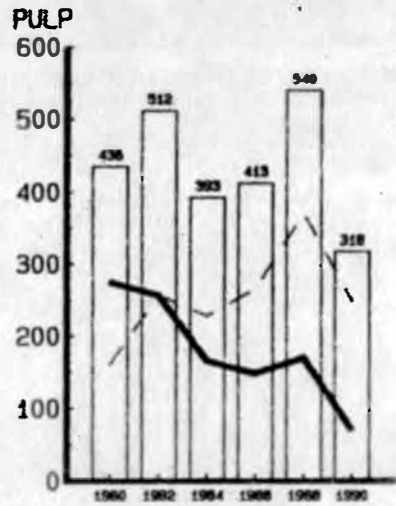
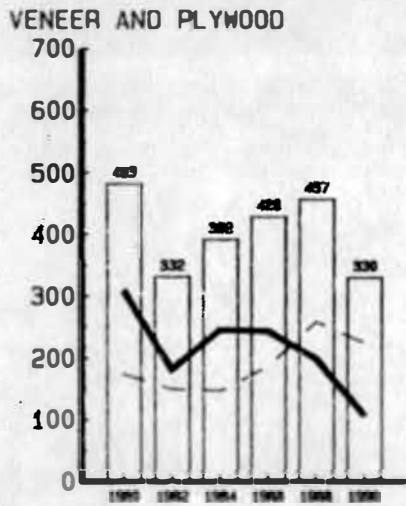
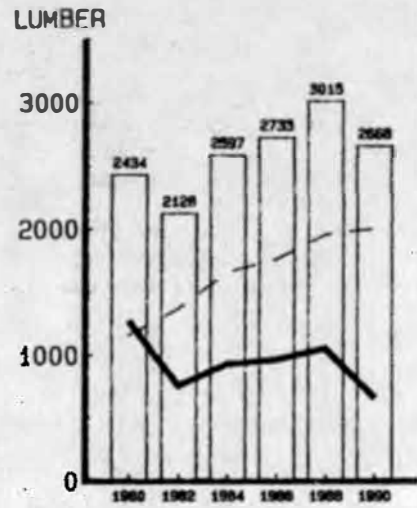
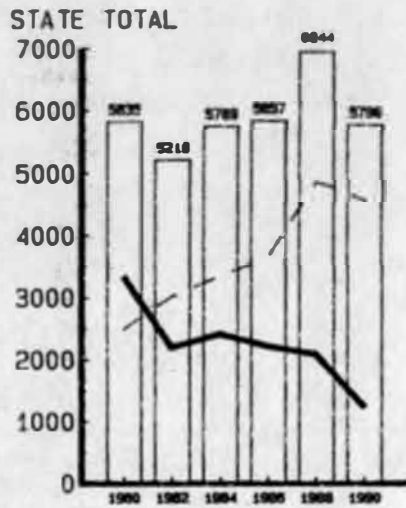
Total log consumption

## 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 trend will continue because of current forest management silvicultural practices. Timber stand rotations are usually much shorter than 100 years. Although this mill survey does not deal with minimum harvest ages, some commercial thinnings occur at about 30 years of age and some final harvests at about 40 years of age.

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



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

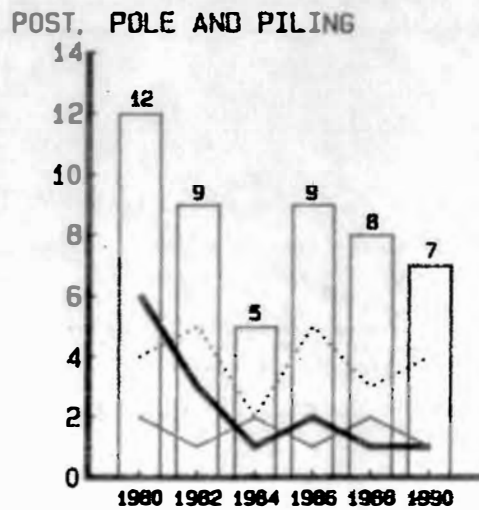
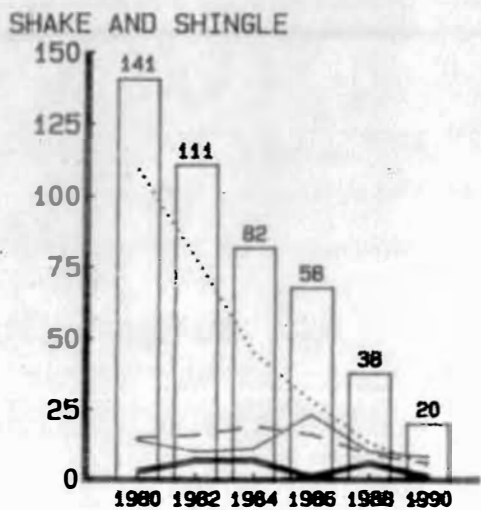
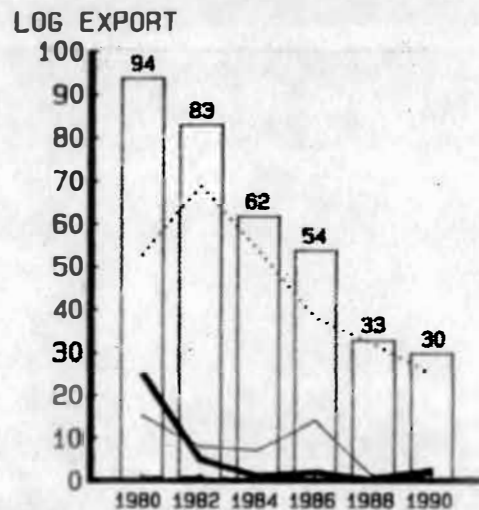
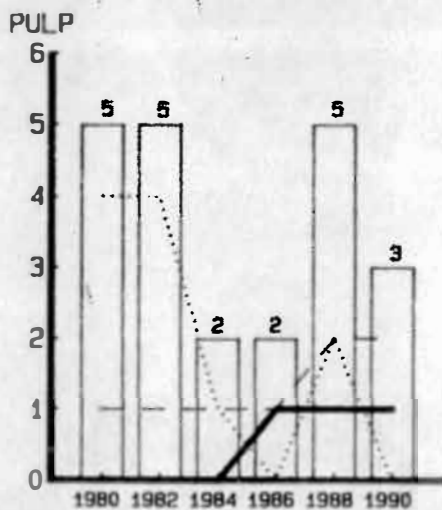
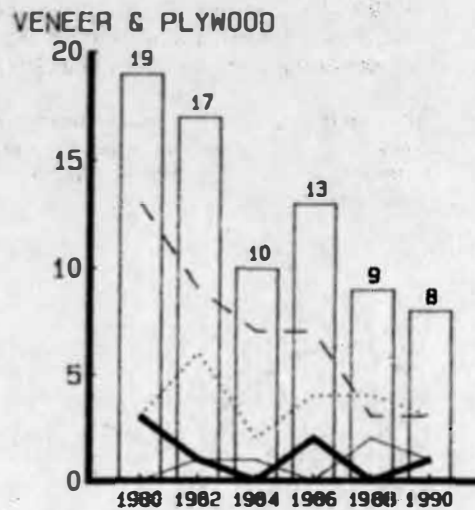
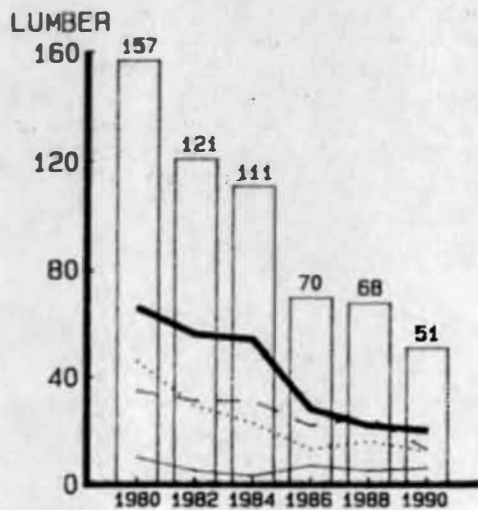
## Note

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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 18 percent of the harvest in 1990, was the most important owner class for the lumber industry in this respect. Although the national forests in 1988 had a higher dependence while providing 20 percent of the log volume consumed, the environmental restrictions because of the Northern spotted owl threatened species listing in 1989 are now coming to bear. The national forests only provided 12 percent of the harvest in 1990.

Over the 1990s the forest industry influence on the shake and shingle has dramatically declined because of the cumulative removal of old growth western redcedar from their timberlands and the resulting decline in old-growth cedar inventory.

## Number of Mills More Than Two-Thirds Dependent on a Single Ownership for Logs



Farmer & misc. private National Forest Forest Industry State and other public Total Mills consumption

## Note

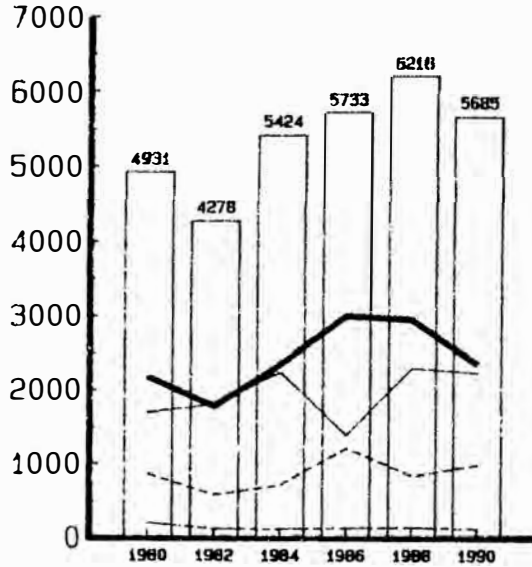
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During the 1980-1990 period, residue production has fluctuated from a low of 4.3 million tons in 1982 to a high of 6.2 million tons in 1988. Fuel has generally accounted for the largest share of residue use during this period, but pulp and board use was relatively strong in 1982 and 1990.

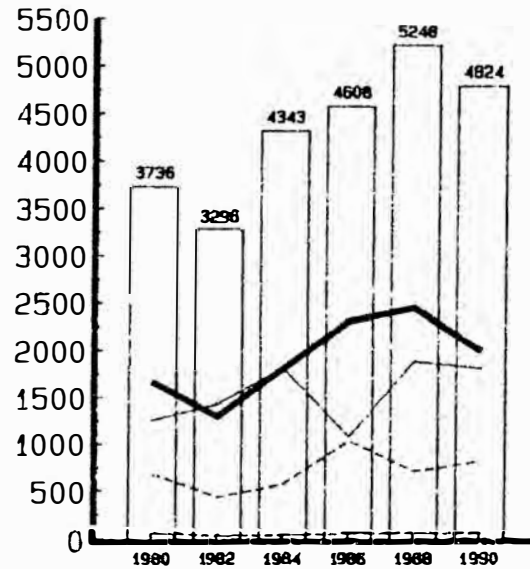
Lumber manufacturing is the primary source of residues with 85 percent of the residues produced in 1990. In terms of residue use, fuel use accounted for over 40 percent of the total; pulp was second with over one-third of total residues. Although not shown, pulp use accounted for nearly half the wood residue total.

# Production and Disposition of Wood and Bark Residue (Thousand tons, dry weight)

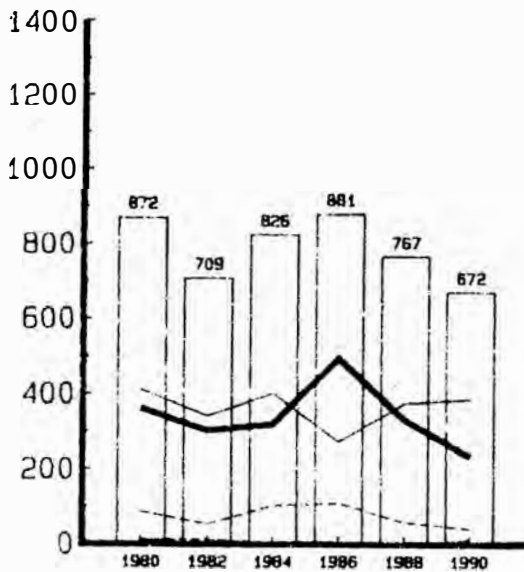
STATE TOTAL



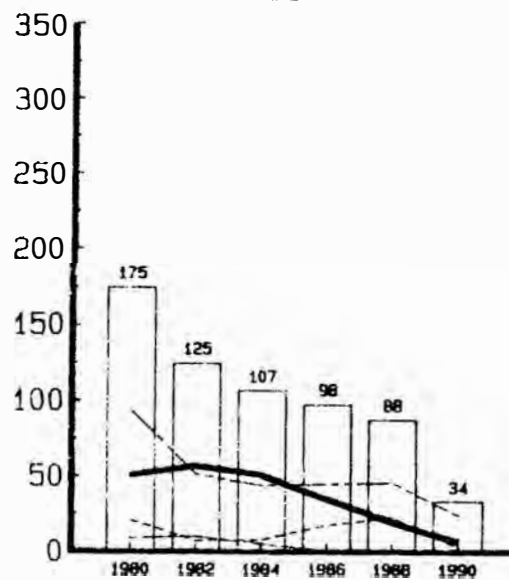
LUMBER



VENEER AND PLYWOOD



SHAKE AND SHINGLE



Fuel   
  Pulp and board   
  Other uses   
  Unused   
  Total residue

## Table 2 Report Year and Table Number Cross Index

(Between the 12 Washington mill survey reports [1])

1978 thru 1990	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	11
14	14	13	12	11
15	15	14	13	12
16	16	15	14	12
17	17	16	15	13
18	18	17	16	15
19	19	18	17	16
20	20	19	18	17
21	21	20	19	18
22	22	21	20	19
23	23	22	21	20
24	24	23	22	21
25	25	24	23	22
26	27	26	25	24
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

[1] Base year 1990

\* Contains part of same information



## Table 2 (continued) Report Year and Table Number Cross Index

(Between the 12 Washington mill survey reports [1])

1982- 1990	1972 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

[1] Base year 1990

\* Contains part of same information



# Industry Overview



## 1990 HIGHLIGHTS

Mills operating in Washington in 1990 totalled 286.  
Analysis of single-shift capacity and number of mills by type shows:

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

Type of <u>mill</u>	Number of <u>mills</u>	Single shift <u>capacity</u>
Sawmills	106	12.6 MMbf
Log export	73	not applicable
Veneer, plywood	23	3.5 MMsf (3/8" basis)
Pulp	22	14.6 M tons (daily)
Shake, shingle	52	4.0 M sq.
Post, pole & piling	10	40.2 MMbf (peeling-yearly)
Total	<u>286</u>	

Grays Harbor County led with 41 operations.

The 41 largest sawmills (Class A) had 76 percent of the total eight-hour shift sawmilling capacity. During 1990 the Class A sawmills consumed 74 percent of the logs processed and produced 78 percent of the lumber manufactured.

## Wood Consumption

- ◆ 5.8 billion board feet of roundwood logs were consumed by the industry. Sawmills accounted for 46 percent of the volume; log export took 41 percent. These two sectors account for 87 percent of the consumption.
- ◆ 10 million board feet (log scale) of peeler cores, cants, blocks, bolts and miscellaneous peeled products were consumed.
- ◆ 8.1 million tons of chips, sawdust and shavings were consumed by the pulp industry.
- ◆ 92 percent of total wood used by the pulp sector was in the form of chips, sawdust, shavings and waste paper.
- ◆ 79 percent of timber consumption was young growth (less than 100 years old)
- ◆ 89 percent of all log volume used was from sound logs.
- ◆ 50 percent of roundwood volume was Douglas fir; 27 percent hemlock; 6 percent western redcedar and 5 percent ponderosa pine.
- ◆ 5 percent of all log volume consumed was imported; 91 percent of this volume came from Oregon.
- ◆ 50 percent of log volume came from forest industry timberlands; 18 percent from farmer and miscellaneous private lands; 16 percent from state-managed lands; 12 percent from national forests.
- ◆ 63 percent of national forest log volume statewide came from combined harvests on the Gifford Pinchot, Mt. Baker-Snoqualmie, and Olympic National forests; 29 percent from Gifford Pinchot; 22 percent from Mt. Baker-Snoqualmie and 12 percent from the Olympic.

**Table 4  
Roundwood Use by Industry**

Industry	Volume (MMBf)	Percent
Sawmills	2,668	46
Log export	2,372	41
Veneer & plywood	330	6
Pulp	318	5
Shake & shingle	75	1
Post, pole & piling	33	1
	<u>5,796</u>	<u>100</u>

Leading counties in roundwood use were:

Cowlitz . . . . .	1,012 MMBf
Grays Harbor . . . . .	748 MMBf
Pierce . . . . .	737 MMBf
Snohomish . . . . .	679 MMBf

**RESIDUES**

- ♦ 5.7 million tons of wood and bark residues were generated. The sources by sector are shown in Table 5. Sawmills are the primary source.
- ♦ 76 percent of residue was wood; 24 percent was bark. Of wood residues, 98 percent were used. Of bark residues, 97 percent were used. Unused were 116,070 tons of wood and bark, 2 percent of the total residues.
- ♦ 48 percent of wood residue went for pulp; 33 percent for fuel; 17 percent other uses; 2 percent was unused.

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

Mill Type	Million tons	Percent
Sawmills	4.8	84
Veneer & plywood	0.7	12
Shake & shingle	<0.05	1
Other *	0.2	3
Total	<u>5.7</u>	<u>100</u>

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

## THE TIMBER ECONOMY

The Washington timber economy continues to adapt to a changing economic and resources climate. The number of processing operations declined by nearly 19 percent from 1988 to 1990 while log consumption dropped 17 percent. Yet, Washington remains one of the leading timber industry states, producing 6 percent of the nation's lumber, 7 percent of the nation's paper and board production, 5 percent of the nation's plywood and providing 54 percent of the nation's log exports.

Employment in the wood products industry is a function of many factors, including, prices, timber availability and weather conditions. Employment for the sawmilling sector (Standard Industrial Code, SIC 24) decreased from 41,190 in 1988 to 39,159 in 1990<sup>1</sup>. The pulp industry experienced modest employment growth with SIC 26 workers increasing from 16,730 in 1988 to 18,228 in 1990. Net employment declined about 500 workers from 1988 to 1990. The total employment change was a decline of about 1 percent.

Washington's total timber harvest for 1990 was 5.8 billion board feet<sup>2</sup> (Figure 1). This was 15 percent below 1989 and 17 percent below 1988. The mill survey for 1990 shows log consumption at 5.8 billion board feet. The mill survey timber harvest, however, shows the harvest estimate for Washington State about 6 percent lower than the timber harvest report. This difference may be attributed to several factors. About 1.8 million tons of chips went from roundwood chipping mills to the pulp mills, but this volume was not included as roundwood in the mill survey. Other factors which may have contributed to the difference are as follows: 1) logs exported to other states and not included in the survey process (only final consumer firms within Washington State are surveyed), 2) some mills were possibly missed in the survey, and 3) reported 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 10-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 30 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>Source: Employment and Payrolls in Washington State by County and Industry, 1988 and 1990. Employment Security Department, Olympia, WA

<sup>2</sup> Source: Washington timber harvest 1990. Department of Natural Resources, Olympia, WA

Figure 1  
Output of Major Timber Products for Washington

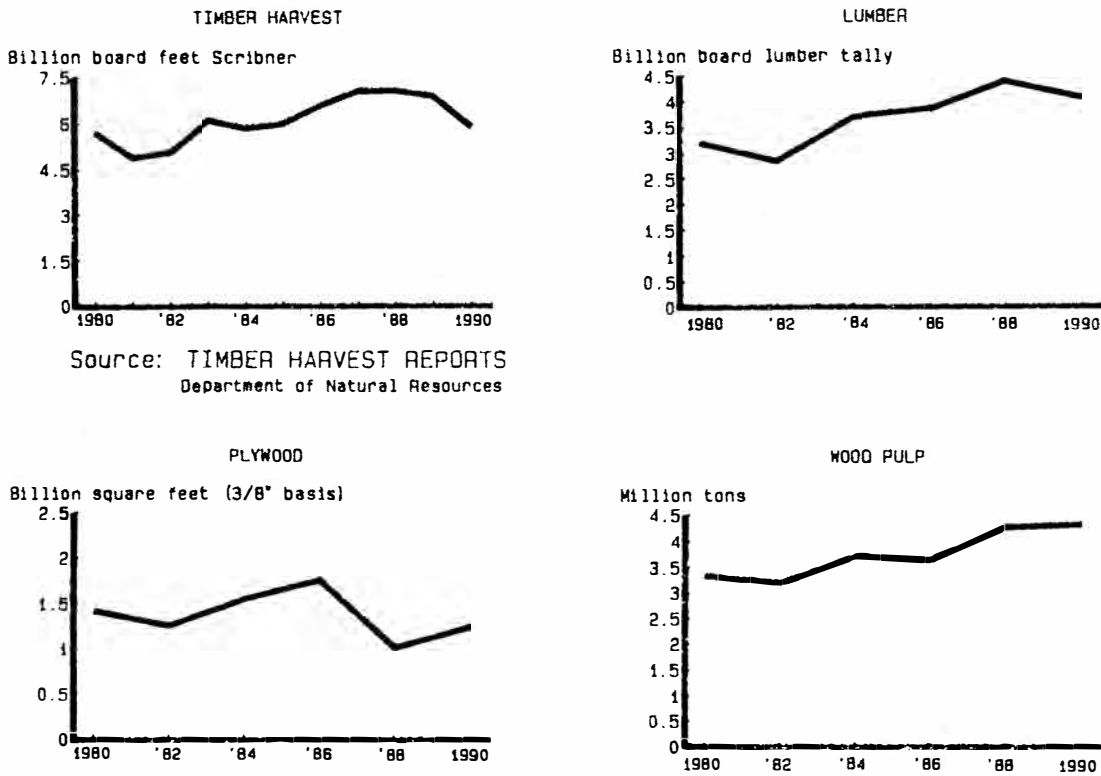
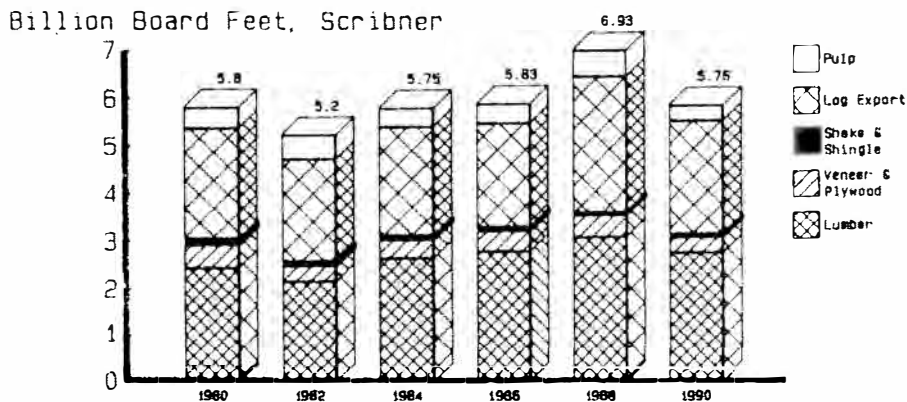


Figure 2  
Washington Log Consumption  
by Major Industries



Post, pole and piling industry volume is not shown because it is less than 100 million board feet.



Figure 3  
The Five Economic Areas Encompassing 39 Counties



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

## INDUSTRY CHARACTERISTICS

The industry is divided into six segments in this report: lumber; veneer and plywood; pulp; log export; shake and shingles 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 remained the same as those used in previous surveys to allow comparison. Comparisons between sectors and economic areas can be made by using Tables D-1 to D-10 in Appendix D.

## Wood Consumption

During 1990, Washington's primary forest products industries consumed 5.8 billion board feet of logs, 10 million board feet of other wood and 8 million tons of chips and wood residue. Sound logs comprised 89 percent of the total roundwood; log export accounted for 46 percent, sawmills consumed 45 percent. Utility and cull logs accounted for 11 percent of total roundwood with the lumber industry consuming 56 percent of these materials. Figure 4 illustrates the total log consumption by industry sector.

The 8 million tons of chips and residues consumed by the pulp industry consisted of mill residues, material from roundwood chipping plants and other fiber residues. This volume is equal to about 4 billion board feet of roundwood logs. Most chips were by-products of manufacturing operations.

The forest products industry's consumption (including log export) was met disproportionately from forest industry owners. The forestry industry, owning 28 percent of the commercial forest lands in the state, provided 50 percent of log consumption volume. Industry in 1988 provided 52 percent of the consumption volume. The farmer and miscellaneous private owners with 19 percent of the timberland base provided 13 percent of the consumption volume in 1988 and this rose to 18 percent in 1990.

Figure 4  
Log Consumption by Type of Industry

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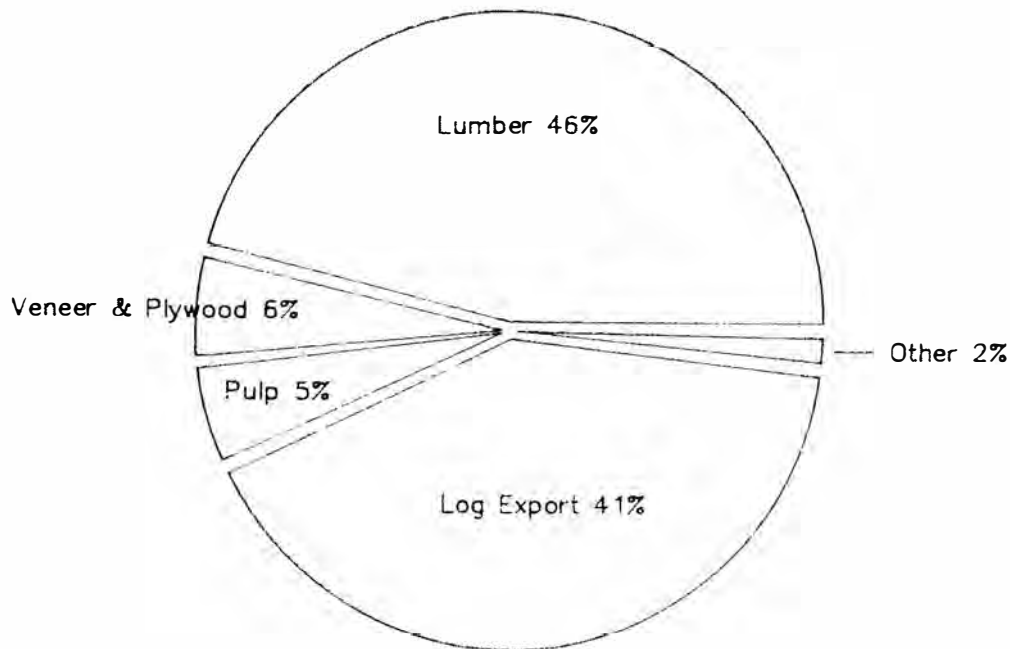


Table 6  
Log Supply by Owner Source

Ownership	Volume (Mbf)	Log Supply (percent)
State	910,370	16
National Forest	712,917	12
Bureau of Land Management	3,943	*
Other Public	197,795	3
<hr/> Total	<hr/> 1,825,025	<hr/> 31
Forest industry		
Own wood supply	1,441,705	25
Other wood supply	1,475,218	26
Farmer & misc. private	1,054,506	18
<hr/> Total	<hr/> 3,971,429	<hr/> 69
<hr/> All owners	<hr/> 5,796,454	<hr/> 100

\*Less than 0.5 percent

Table 7  
Log Flows Measured from National Forests

National Forest	Volume (Mbf)	Log flow (percent)
Gifford Pinchot	208,699	29
Mt. Baker-Snoqualmie	157,990	22
Wenatchee	92,449	13
Olympic	85,899	12
Colville	71,044	10
Okanogan	36,255	5
Other	60,581	9
<hr/> All National Forests	<hr/> 712,917	<hr/> 100

## Table 8 Dependence for Timber Supply

### Mills Over Two-Thirds Dependent \*

Ownership	(Number)	(Percent)
State	14	4.9
National forest	25	8.7
Bureau of Land Management	--	--
Other public	5	1.7
<hr/>		
Total public	44	15.4
Forest industry:		
Own wood supply	12	4.2
Other wood supply	37	12.9
Farmer & misc. private	26	9.1
<hr/>		
Total private	75	26.2
<hr/>		
All owners	119	41.6

\* Dependence for timber supply by ownership class is determined by totalling individual mills obtaining more than two-thirds of their logs from a single ownership class. Percentages are taken as a share of 286 mills in the state.

At the state level, Douglas fir (50 percent) and hemlock<sup>3</sup> (27 percent) were the dominate species consumed by the industry during 1990. In Western Washington the three major species (in order of importance) were Douglas fir, hemlock and western redcedar. Ponderosa pine and Douglas fir were the major species in Eastern Washington.

Most sectors of the industry use several species. Four sectors, however, have a species preference. The post, pole and piling industry was 81 percent dependent and the veneer and plywood industry 73 percent dependent on Douglas fir, the pulp industry's consumption of roundwood was 69 percent dependent on hemlock. The shake and shingle industry was almost exclusively dependent on western redcedar.

Washington supplied 95 percent of the industry's log consumption. Oregon contributed 4.3 percent, with most (82 percent of this volume) consumed in the Lower Columbia area.<sup>4</sup>

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

<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.

## RESIDUES

### Production

The sawmill; veneer and plywood; shake and shingle; post, pole and piling; and log export segments of the industry generated 5.7 million tons of wood and bark residues in 1990. Of this amount, the sawmill, and veneer and plywood sectors provided 97 percent of the total. Of their share, 98.3 percent was used.

Of all residues produced, 98 percent were used. Fuel use accounted for 2.4 million tons (41 percent) of all residues while the pulp industry took 2.1 million tons (36 percent) of all residues.

### Use

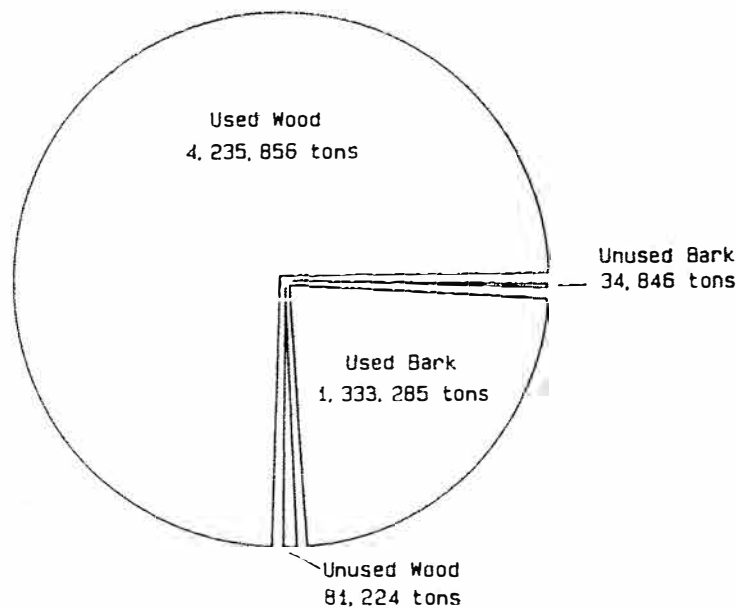
A significant achievement of the forest products industry is the relatively high use of wood residues, 4.2 million tons of wood and 1.3 million tons of bark were consumed.

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

Wood residue use	Volume (thousand tons)	Percent
Pulp	2,232	52
Fuel	1,430	33
Other uses	574	13
Unused	81	2
<hr/>		
All wood residue	4,317	100

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

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



## HARDWOOD INDUSTRY

Hardwoods accounted for about 5.5 percent of total log consumption. Red alder, bigleaf maple and black cottonwood were several of the hardwood species used by the Washington wood products industry. Hardwoods were used in product manufacture by sawmills, veneer mills, and pulp mills and finished products are often shipped abroad as well as throughout the United States. About five percent of the hardwoods log volume was exported as logs.

In 1990, 14 sawmills, three veneer operations, and five pulp mills used hardwoods for their products. Of the 14 sawmills, 11 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 Hardwoods

County	Sawmills		Veneer & Plywood		Pulp	
	Under 90%	90% +	Under 90%	90% +	Under 90%	90% +
Clallam	--	--	1	--	--	--
Clark	--	--	--	--	1	--
Cowlitz	--	2	--	--	1	--
Grays Harbor	--	1	--	--	1	--
Jefferson	1	--	--	--	--	--
King	1	--	--	--	--	--
Lewis	1	3	1	--	--	--
Pacific	--	1	--	--	--	--
Pierce	--	--	--	--	1	--
Skagit	--	1	--	--	--	--
Snohomish	--	2	--	--	1	--
Walla Walla	--	1	--	--	--	--
Whatcom	--	--	--	1	--	--
Total	3	11	2	1	5	--

## WOOD CONSUMPTION

Total hardwood log consumption was 319 million board feet in 1990 (Table D-8). Of this volume, 279 million board feet were used in sawmilling operations and 15 million board feet were exported. Total hardwood consumption in 1990 was one fourth above 1988 consumption, although total log consumption declined 17 percent. In addition, 108,358 bone dry tons of hardwood chips from roundwood chipping plants were consumed by the pulp industry.

Sawmills were the primary hardwood species users in 1990 and consumption was up 3 percent from 1988. Hardwoods were 10.5 percent of sawmills all-species consumption for 1990. Nearly 100 percent of hardwood volume consumed was by sawmills 90-percent-plus dependent on hardwoods. The six sawmills that were A or B class mills (80,000 board feet capacity per shift or greater) accounted for 78 percent of the total hardwood log consumption.

The veneer and plywood industry consumed 14.8 million board feet of hardwoods or 4.5 percent of their total log consumption (Table D-8). This was considerably more hardwood volume than was consumed in 1988.

The pulp industry used 10 million board feet of hardwood logs in 1990 (three percent of their all-species log consumption). In addition, this industry consumed 108,358 bone dry tons 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	279.4	87
Log export	15.3	5
Veneer and plywood	14.8	5
Pulp	10.0	3
Total Industry	<u>319.5</u>	<u>100</u>

## HARDWOOD SUPPLY

Fourteen counties in Washington and out-of-state sources provided logs to the hardwood sawmilling industry. Cowlitz, Lewis, Snohomish and Skagit counties supplied 70 percent of the hardwood log volume for sawmills. The 11 sawmills which were 90 percent-plus dependent upon hardwoods in 1990 consumed 279 million board feet in 1990, a 27 percent increase over 1988. The hardwood volume was provided primarily from Western Washington counties; but with 6 percent from out-of-state sources.

**Table 12**  
**Hardwood Volume by County:**  
**Mills 90% + Dependent on Hardwoods**

County of origin	Volume (MMbf)	Percent
Cowlitz	62.9	23
Lewis	53.3	19
Snohomish	49.9	18
Skagit	29.4	11
Whatcom	18.0	6
Grays Harbor	13.1	5
Clallam	9.2	3
Pacific	7.0	2
Wahkiakum	6.7	2
King	5.5	2
Thurston	5.3	2
Others	3.2	1
Out-of-State	15.8	6
Total	279.3	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 half of the roundwood volume used.

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

<u>Ownership</u>	<u>Volume MMbf</u> Scribner	<u>Log supply</u> (Percent)
State	70.1	25
National forest	1.0	<.5
Other public	4.3	2
	<hr/>	<hr/>
Total public	75.4	27
Forest industry		
Own wood supply	40.9	15
Other wood supply	112.9	40
Farmer & misc. private	50.1	18
	<hr/>	<hr/>
Total private	203.9	73
All owners	279.3	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 this 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 log 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, Scribner log rule** = log consumption.

**Board foot lumber tally** = lumber production.

**Square feet 3/8-inch basis** = plywood and veneer production.

**Square** = (10' x 10') area coverage for shake and shingle production.

**Board foot Scribner** = 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 equivalences are listed below.

### Unit conversion used in this report:

#### Lumber Industry

1.3 board feet lumber tally = 1 board foot, Scribner (approximately)

#### 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

---

\*(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 percentage basis the uses made of their various residues. These percentages were applied to residue estimates developed using the following residue factors:

### Softwood Sawmill Residues \*

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

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

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

\*\* Green Volume

### Softwood Plywood Residues \*

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

Plywood residue	Solid volume**		Dry weight (Tons)	Residue type
	(Cubic feet)	(Percent)		
Wood residue				
Log trim	3.4	0.048	4.2	Coarse
Cores	6.3	0.088	7.8	Coarse
Veneer clippings, roundup & Spur trim	19.3	0.270	23.7	Coarse
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
Total wood residue	36.9	0.516	45.4	
Bark	<u>8.8</u>	<u>0.132</u>	<u>11.6</u>	
All residue	45.7	0.648	57.0	
Plywood	<u>34.9</u>	<u>0.489</u>	<u>43.0</u>	
Whole log	80.6	1.137	100.0	

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

\*\* Green Volume.

## Shingle Mill Residues \*

---

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

<u>Shake and Shingle residue</u>	<u>Solid Volume</u>		<u>Dry Weight</u>
	(Cubic feet)	(Percent)	(Tons)
Shingles:			
Coarse	23	13.7	0.22
Fine	78	46.8	0.75
Bark	19	11.5	0.28
Shakes:			
Coarse	23	13.7	0.22
Fine	24	14.5	0.23
Bark	19	11.5	0.28

\*From information provided by the Red Cedar Shingle Bureau

## Hardwood Sawmill Residues \*

---

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

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

\* Based on information furnished by Northwest Hardwoods, Inc.



# Appendix C



## COMPUTER PROGRAM USED FOR THIS REPORT

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

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 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
- ◆ Key punch instructions
- ◆ File descriptions for each file
- ◆ Data description including edit criteria for each field
- ◆ Reasonable 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



# SUMMARY 1990

Table D-1

## Number of Mills by Timber Industry

Economic area and county	Industry						
	All industries	Lumber	Veneer and plywood	Pulp[1]	Shake and shingle	Log Export [2]	Post, pole and piling
<b>Puget Sound</b>							
Island	1	1	--	--	--	--	--
King	8	5	--	--	1	1	1
Kitsap	1	1	--	--	--	--	--
Pierce	22	7	2	2	--	10	1
San Juan	1	1	--	--	--	--	--
Skagit	16	4	2	--	7	3	--
Snohomish	37	14	--	2	5	15	1
Whatcom	7	1	1	2	1	1	1
<b>Total</b>	<b>93</b>	<b>34</b>	<b>5</b>	<b>6</b>	<b>14</b>	<b>30</b>	<b>4</b>
<b>Olympic Peninsula</b>							
Clallam	31	6	1	2	10	12	--
Grays Harbor	41	7	4	2	15	13	--
Jefferson	7	3	1	1	2	--	--
Lewis	15	9	3	--	3	--	--
Mason	6	4	1	--	--	--	1
Pacific	3	2	--	--	1	--	--
Thurston	16	4	2	--	1	8	1
<b>Total</b>	<b>119</b>	<b>35</b>	<b>12</b>	<b>5</b>	<b>32</b>	<b>33</b>	<b>2</b>
<b>Lower Columbia</b>							
Clark	7	2	1	2	1	--	1
Cowlitz	25	8	--	5	2	10	--
Klickitat	3	2	1	--	--	--	--
Skamania	2	1	1	--	--	--	--
Wahkiakum	2	--	--	--	2	--	--
<b>Total</b>	<b>39</b>	<b>13</b>	<b>3</b>	<b>7</b>	<b>5</b>	<b>10</b>	<b>1</b>
<b>Central Washington</b>							
Adams	--	--	--	--	--	--	--
Benton	--	--	--	--	--	--	--
Chelan	1	1	--	--	--	--	--
Douglas	--	--	--	--	--	--	--
Franklin	--	--	--	--	--	--	--
Grant	--	--	--	--	--	--	--
Kittitas	1	1	--	--	--	--	--
Lincoln	--	--	--	--	--	--	--
Okanogan	6	4	1	--	1	--	--
Yakima	3	2	1	--	--	--	--
<b>Total</b>	<b>11</b>	<b>8</b>	<b>2</b>	<b>--</b>	<b>1</b>	<b>--</b>	<b>--</b>
<b>Inland Empire</b>							
Asotin	1	1	--	--	--	--	--
Columbia	--	--	--	--	--	--	--
Ferry	2	2	--	--	--	--	--
Garfield	--	--	--	--	--	--	--
Pend Oreille	2	1	--	1	--	--	--
Spokane	2	1	--	1	--	--	--
Stevens	13	9	1	--	--	--	3
Walla Walla	4	2	--	2	--	--	--
Whitman	--	--	--	--	--	--	--
<b>Total</b>	<b>24</b>	<b>16</b>	<b>1</b>	<b>4</b>	<b>--</b>	<b>--</b>	<b>3</b>
<b>TOTAL, STATEWIDE</b>	<b>286</b>	<b>106</b>	<b>23</b>	<b>22</b>	<b>52</b>	<b>73</b>	<b>10</b>

[1] Each pulping process at a multiplant location is counted as an individual mill.

[2] Represents the number of identifiable operations involved in the log export trade.

# SUMMARY 1990

Table D-2

## Primary Wood Consumption

Economic area and industry	Roundwood				
	All roundwood	Sound logs	Utility logs	Other [1]	Residue [2]
	---Thousand board feet, Scribner log rule---				Bone dry tons
<b>Puget Sound</b>					
Lumber	785,596	660,058	125,538	--	--
Veneer & plywood[3]	--	--	--	--	--
Pulp	94,617	42,866	51,751	--	2,071,663
Shake & shingle	5,994	5,530	464	1,776	--
Log export	877,268	873,323	3,945	--	--
Post, pole & piling	11,141	11,094	47	--	--
<b>Total</b>	<b>1,774,616</b>	<b>1,592,871</b>	<b>181,745</b>	<b>1,776</b>	<b>2,071,663</b>
<b>Olympic Peninsula</b>					
Lumber	729,221	580,050	149,171	--	--
Veneer & plywood[3]	124,931	94,582	30,349	--	--
Pulp	170,096	81,950	88,146	--	1,176,556
Shake & shingle	67,548	28,681	38,867	4,994	--
Log export	920,557	916,679	3,878	--	--
Post, pole & piling[4]	20,708	20,620	88	--	--
<b>Total</b>	<b>2,033,061</b>	<b>1,722,562</b>	<b>310,499</b>	<b>4,994</b>	<b>1,176,556</b>
<b>Lower Columbia</b>					
Lumber	549,438	484,253	65,185	2,605	--
Veneer & plywood	49,988	46,623	3,365	--	--
Pulp	53,463	160	53,303	--	3,750,382
Shake & shingle[5]	1,280	1,000	280	1,050	--
Log export	574,071	573,393	678	--	--
Post, pole & piling[4]	--	--	--	--	--
<b>Total</b>	<b>1,228,240</b>	<b>1,105,429</b>	<b>122,811</b>	<b>3,655</b>	<b>3,750,382</b>
<b>Central Washington</b>					
Lumber	241,573	240,089	1,484	--	--
Veneer & plywood[6]	155,515	155,080	435	--	--
Pulp	--	--	--	--	--
Shake & shingle[5]	--	--	--	--	--
Log export	--	--	--	--	--
Post, pole & piling	--	--	--	--	--
<b>Total</b>	<b>397,088</b>	<b>395,169</b>	<b>1,919</b>	<b>--</b>	<b>--</b>
<b>Inland Empire</b>					
Lumber	362,309	346,708	15,601	--	--
Veneer & plywood[6]	--	--	--	--	--
Pulp	--	--	--	--	1,094,552
Shake & shingle	--	--	--	--	--
Log export	--	--	--	--	--
Post, pole & piling	1,140	306	834	--	--
<b>Total</b>	<b>363,449</b>	<b>347,014</b>	<b>16,435</b>	<b>--</b>	<b>1,094,552</b>
<b>Total, State</b>					
Lumber	2,668,137	2,311,158	356,979	2,605	--
Veneer & plywood	330,434	296,285	34,149	--	--
Pulp	318,176	124,976	193,200	--	8,093,153
Shake & shingle	74,822	35,211	39,611	7,820	--
Log export	2,371,896	2,363,395	8,501	--	--
Post, pole & piling	32,989	32,020	969	--	--
<b>TOTAL, STATEWIDE</b>	<b>5,796,454</b>	<b>5,163,045</b>	<b>633,409</b>	<b>10,425</b>	<b>8,093,153</b>

[1] Includes peeler cores, lumber and cants used by sawmills (converted to Scribner 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.

[2] Includes residues from the sawmill, veneer and plywood, and shake and shingle industries plus chips from roundwood chipping plants, and wastepaper.

[3] Veneer and plywood for Puget Sound combined with Olympic Peninsula to avoid disclosure.

[4] Post, pole and piling for Lower Columbia combined with Olympic Peninsula to avoid disclosure.

[5] Shake and shingle for Central Washington combined with Lower Columbia to avoid disclosure.

[6] Veneer and plywood for Inland Empire combined with Central Washington to avoid disclosure.



# SUMMARY 1990

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
<hr/>						
Puget Sound						
Lumber	785,596	783,477	--	219	1,900	--
Veneer & plywood[1]	--	--	--	--	--	--
Pulp	94,617	82,377	--	12,240	--	--
Shake & shingle	5,994	5,994	--	--	--	--
Export	877,268	874,829	--	--	732	1,707
Post, pole & piling	11,141	10,037	--	31	1,073	--
<hr/>						
Total	1,774,616	1,756,714	--	12,490	3,705	1,707
Olympic Peninsula						
Lumber	729,221	721,151	7,900	--	--	170
Veneer & plywood[1]	124,931	124,931	--	--	--	--
Pulp	170,096	166,856	--	--	3,240	--
Shake & shingle	67,548	67,503	--	--	--	45
Export	920,557	920,557	--	--	--	--
Post, pole & piling[2]	20,708	20,500	208	--	--	--
<hr/>						
Total	2,033,061	2,021,498	8,108	--	3,240	215
Lower Columbia						
Lumber	549,438	451,506	97,932	--	--	--
Veneer & plywood	49,988	46,920	2,734	334	--	--
Pulp	53,463	22,097	31,286	16	56	8
Shake & shingle[3]	1,280	1,220	60	--	--	--
Export	574,071	496,971	74,365	2,735	--	--
Post, pole & piling[2]	--	--	--	--	--	--
<hr/>						
Total	1,228,240	1,018,714	206,377	3,085	56	8
Central Washington						
Lumber	241,573	240,952	--	621	--	--
Veneer & plywood[4]	155,515	155,515	--	--	--	--
Pulp	--	--	--	--	--	--
Shake & shingle[3]	--	--	--	--	--	--
Export	--	--	--	--	--	--
Post, pole & piling	--	--	--	--	--	--
<hr/>						
Total	397,088	396,467	--	621	--	--
Inland Empire						
Lumber	362,309	325,739	36,240	330	--	--
Veneer & plywood[4]	--	--	--	--	--	--
Pulp	--	--	--	--	--	--
Shake & shingle	--	--	--	--	--	--
Export	--	--	--	--	--	--
Post, pole & piling	1,140	1,070	--	--	70	--
<hr/>						
Total	363,449	326,809	36,240	330	70	--
Total, State						
Lumber	2,668,137	2,522,825	142,072	1,170	1,900	170
Veneer & plywood	330,434	327,366	2,734	334	--	--
Pulp	318,176	271,330	31,286	12,256	3,296	8
Shake & shingle	74,822	74,717	60	--	--	45
Export	2,371,896	2,292,357	74,365	2,735	732	1,707
Post, pole & piling	32,989	31,607	208	31	1,143	--
<hr/>						
TOTAL, STATEWIDE	5,796,454	5,520,202	250,725	16,526	7,071	1,930

- [1] Veneer and plywood for Puget Sound combined with Olympic Peninsula to avoid disclosure.  
 [2] Post, pole and piling for Lower Columbia combined with Olympic Peninsula to avoid disclosure.  
 [3] Shake and shingle for Central Washington combined with Lower Columbia to avoid disclosure.  
 [4] Veneer and plywood for Inland Empire combined with Central Washington to avoid disclosure.

# SUMMARY 1990

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								
	Puget Sound								
	Total	Island	King	Kitsap	Pierce	San Juan	Skagit	Snohomish	Whatcom
Puget Sound									
Island/Kitsap/San Juan/ & Whatcom[1,2,3,4,5,6]	83,094	5,210	6,500	6,500	--	400	20,749	--	11,235
King[4] [5] [6]	97,100	--	58,178	9,662	11,220	--	--	6,389	--
Pierce[2] [3] [6]	736,974	--	220,751	9,657	196,224	--	--	23,752	2,037
Skagit[2] [5]	178,314	1,530	11,256	--	--	1,162	101,766	27,271	33,680
Snohomish[3] [4] [6]	679,134	1,364	83,074	1,191	4,419	--	149,024	292,167	74,391
<b>Total</b>	<b>1,774,616</b>	<b>8,104</b>	<b>379,759</b>	<b>27,010</b>	<b>211,863</b>	<b>1,562</b>	<b>271,539</b>	<b>349,579</b>	<b>121,343</b>
Olympic Peninsula									
Clallam[2] [7] [8]	469,475	--	--	1,749	3,240	--	9,974	8,227	3,494
Grays Harbor[7]	747,561	--	--	1,200	600	--	--	--	--
Jefferson/Pacif. [1,2,7,8]	131,970	--	10	480	--	--	--	--	3,400
Lewis	296,731	--	--	--	11,555	--	16,083	3,570	--
Mason[2] [10]	147,520	--	4,577	--	8,800	--	4,430	4,426	2,655
Thurston[2] [8] [10]	239,804	--	3,280	--	33,236	50	3,117	6,206	6,234
<b>Total</b>	<b>2,033,061</b>	<b>--</b>	<b>7,867</b>	<b>3,429</b>	<b>57,431</b>	<b>50</b>	<b>33,604</b>	<b>22,429</b>	<b>15,783</b>
Lower Columbia									
Clark/Klickitat/Skamania/ & Wahki. [9,10,11,12,13]	216,213	--	--	--	--	--	--	--	--
Cowlitz[12] [13]	1,012,027	--	--	--	--	--	--	--	--
<b>Total</b>	<b>1,228,240</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>
Central Washington									
Chelan/Kittitas & Yakima[1] [14]	278,752	--	--	--	--	--	--	--	--
Okanogan[13] [14]	118,336	--	--	--	--	--	--	--	--
<b>Total</b>	<b>397,088</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>
Inland Empire									
Asotin/Walla Walla[1] [15]	72,351	--	--	--	--	--	--	--	--
Ferry/Pend Oreille/ & Spokane[1] [15]	110,000	--	--	--	--	--	--	--	--
Stevens[14]	181,098	--	--	--	--	--	--	--	--
<b>Total</b>	<b>363,449</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>
<b>TOTAL, STATEWIDE</b>	<b>5,796,454</b>	<b>8,104</b>	<b>387,626</b>	<b>30,439</b>	<b>269,294</b>	<b>1,612</b>	<b>305,143</b>	<b>372,008</b>	<b>137,126</b>

- [1] Combined to avoid disclosure in the lumber sector.
- [2] Veneer and plywood log volume for Pierce, Skagit and Whatcom counties along with Clallam, Jefferson and Mason counties included with Thurston County to avoid individual mill disclosure.
- [3] Pulp sector log volume for Pierce and Whatcom counties included with Snohomish County to avoid individual mill disclosure.
- [4] Shake and shingle log volume for King and Whatcom counties included with Snohomish County to avoid individual mill disclosure.
- [5] Log export log volume for King and Whatcom counties included with Skagit County to avoid individual log exporter disclosure.
- [6] Post, pole and piling log volume for King, Pierce and Whatcom counties included with Snohomish County to avoid individual mill disclosure.
- [7] Pulp sector log volume for Grays Harbor and Jefferson counties included with Clallam County to avoid individual mill disclosure.
- [8] Shake and shingle log volume for Pacific and Thurston counties included with Clallam County to avoid individual mill disclosure.
- [9] Combined to avoid disclosure.

# SUMMARY 1990

## 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						
Clallam	Grays Harbor	Jefferson	Lewis	Mason	Pacific	Thurston
13,000	--	6,500	13,000	--	--	--
2,196	--	--	1,098	--	--	--
13,939	8,100	9,354	54,512	20,017	--	101,234
507	--	1,142	--	--	--	--
11,460	--	3,255	--	447	--	351
41,102	8,100	20,251	68,610	20,464	--	101,585
265,097	49,170	119,584	200	--	5,500	--
22,165	423,961	42,602	81,345	46,494	113,560	15,634
10,734	22,915	38,706	10,245	15	36,565	10
4,815	12,976	--	161,078	--	480	21,191
6,676	23,482	1,200	10,625	68,374	--	12,275
2,268	12,038	2,776	33,698	85,797	1,250	48,952
311,755	544,542	204,868	297,191	200,680	157,355	98,062
--	--	--	240	--	--	--
--	54	--	128,992	--	21,240	2,500
--	54	--	129,232	--	21,240	2,500
--	--	--	--	--	--	--
--	--	--	--	--	--	--
--	--	--	--	--	--	--
--	--	--	--	--	--	--
--	--	--	--	--	--	--
352,857	552,696	225,119	495,033	221,144	178,595	202,147

- [10] Post, pole and piling log volume for Clark and Mason counties included with Thurston County to avoid individual mill disclosure.
- [11] Veneer and plywood log volume for Clark and Klickitat counties included with Skamania County to avoid individual mill disclosure.
- [12] Pulp sector log volume for Clark County included with Cowlitz County to avoid individual mill disclosure.
- [13] Shake and shingle log volume for Cowlitz, Wahkiakum and Okanogan counties included with Clark County to avoid individual mill disclosure.
- [14] Veneer and plywood log volume for Okanogan and Stevens counties included with Yakima County to avoid individual mill disclosure.
- [15] Pulp sector log volume for Pend Oreille and Spokane counties included with Walla Walla County to avoid individual mill disclosure.

# SUMMARY 1990

## 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				
	Lower Columbia				
	Clark	Cowlitz	Klickitat	Skamania	Wahkiakum
<b>Puget Sound</b>					
Island/Kitsap/San Juan/ & Whatcom[1,2,3,4,5,6]	--	--	--	--	--
King[4] [5] [6]	--	--	--	--	--
Pierce[2] [3] [6]	--	--	--	--	--
Skagit[2] [5]	--	--	--	--	--
Snohmoish[3] [4] [6]	--	--	--	--	--
<b>Total</b>	--	--	--	--	--
<b>Olympic Peninsula</b>					
Clallam[2] [7] [8]	--	--	--	--	--
Grays Harbor[7]	--	--	--	--	--
Jefferson/Pacif. [1,2,7,8]	--	--	--	--	990
Lewis	--	9,528	10,000	30,000	--
Mason[2] [10]	--	--	--	--	--
Thurston[2] [8] [10]	--	694	--	--	--
<b>Total</b>	--	10,222	10,000	30,000	990
<b>Lower Columbia</b>					
Clark/Klickitat/Skamania/ & Wahki. [9,10,11,12,13]	13,744	4,200	37,089	119,593	--
Cowlitz[12] [13]	218,968	391,878	--	41,840	22,240
<b>Total</b>	232,712	396,078	37,089	161,433	22,240
<b>Central Washington</b>					
Chelan/Kittitas & Yakima[1] [14]	--	--	36,237	--	--
Okanogan[13] [14]	--	--	--	--	--
<b>Total</b>	--	--	36,237	--	--
<b>Inland Empire</b>					
Asotin/Walla Walla[1] [15]	--	--	--	--	--
Ferry/Pend Oreille/ & Spokane[1] [15]	--	--	--	--	--
Stevens[14]	--	--	--	--	--
<b>Total</b>	--	--	--	--	--
<b>TOTAL, STATEWIDE</b>	232,712	406,300	83,326	191,433	23,230

# SUMMARY 1990

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					
Central Washington					
Chelan	Douglas	Kittitas	Lincoln	Okanogan	Yakima
3,740	--	4,398	--	--	--
--	--	75,497	--	--	--
23,328	--	9,830	--	9,050	--
27,068	--	89,725	--	9,050	--
--	--	--	--	--	--
--	--	--	--	--	15,240
--	--	--	--	--	--
--	--	--	--	--	15,240
--	24	--	--	32	16,056
--	--	--	--	--	--
--	24	--	--	32	16,056
17,956	--	49,664	2,790	35,512	68,173
6,216	--	--	3,105	94,728	--
24,172	--	49,664	5,895	130,240	68,173
--	--	--	--	--	--
--	--	--	330	4,200	--
--	--	--	2,623	--	--
--	--	--	2,953	4,200	--
51,240	24	139,389	8,848	143,522	99,469

# SUMMARY 1990

## 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								
	Inland Empire								
	Asotin	Columbia	Ferry	Garfield	Pend Oreille	Spokane	Stevens	Walla Walla	Whitman
Puget Sound									
Island/Kitsap/San Juan/ & Whatcom[1,2,3,4,5,6]	--	--	--	--	--	--	--	--	--
King[4] [5] [6]	--	--	--	--	--	--	--	--	--
Pierce[2] [3] [6]	--	--	--	--	--	--	--	--	--
Skagit[2] [5]	--	--	--	--	--	--	--	--	--
Snohomish[3] [4] [6]	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--
Olympic Peninsula									
Clallam[2] [7] [8]	--	--	--	--	--	--	--	--	--
Grays Harbor[7]	--	--	--	--	--	--	--	--	--
Jefferson/Pacif. [1,2,7,8]	--	--	--	--	--	--	--	--	--
Lewis	--	--	--	--	--	--	--	--	--
Mason[2] [10]	--	--	--	--	--	--	--	--	--
Thurston[2] [8] [10]	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--
Lower Columbia									
Clark/Klickitat/Skamania/ & Wahki. [9,10,11,12,13]	--	--	24	--	--	--	--	--	--
Cowlitz[12] [13]	--	--	--	--	--	--	--	--	--
Total	--	--	24	--	--	--	--	--	--
Central Washington									
Chelan/Kittitas & Yakima[1] [14]	--	--	25,800	--	2,807	2,232	37,581	--	--
Okanogan [13] [14]	--	--	4,971	--	--	2,484	6,211	--	--
Total	--	--	30,771	--	2,807	4,716	43,792	--	--
Inland Empire									
Asotin/Walla Walla[1] [15]	7,152	10,969	--	17,986	--	--	--	4	--
Ferry/Pend Oreille/ & Spokane[1] [15]	--	--	20,800	--	34,940	3,300	44,450	--	1,650
Stevens[14]	--	--	31,198	--	28,740	5,246	113,221	--	--
Total	7,152	10,969	51,998	17,986	63,680	8,546	157,671	4	1,650
TOTAL, STATEWIDE	7,152	10,969	82,793	17,986	66,487	13,262	201,463	4	1,650

# SUMMARY 1990

Table D-4 (Continued)

Log Consumption by County and Harvest Origin by County  
(Thousand board feet, Scribner log rule)

---

Out-of-state  
origin

---

219
1,900
15,783
-----
17,902
3,240
7,900
215
208
-----
11,563
25,211
184,315
-----
209,526
621
-----
621
36,240
330
70
-----
36,640
-----
276,252

# SUMMARY 1990

## Table D-5

### Log use from National Forests

(Thousand board feet, Scribner log rule)

Economic area	All National Forests	Olympic	Gifford Pinchot	Mount Baker Snoqualmie	Wenatchee	Okanogan	Colville	Umatilla	Out-of-State National Forests
Puget Sound	202,442	13,089	2,010	153,666	24,027	6,930	--	--	2,720
Olympic Peninsula	149,929	72,810	77,074	--	--	--	--	--	45
Lower Columbia	164,796	--	129,615	3,278	--	--	--	--	31,903
Central Washington	98,076	--	--	1,046	68,422	23,040	5,568	--	--
Inland Empire	97,674	--	--	--	--	6,285	65,476	25,913	--
<b>TOTAL, STATEWIDE</b>	<b>712,917</b>	<b>85,899</b>	<b>208,699</b>	<b>157,990</b>	<b>92,449</b>	<b>36,255</b>	<b>71,044</b>	<b>25,913</b>	<b>34,668</b>
<b>Industry</b>									
Lumber	542,059	65,634	168,229	115,351	74,176	26,719	62,199	25,913	3,838
Veneer & plywood	73,909	3,014	31,836	1,840	18,273	9,536	8,810	--	600
Pulp	88,271	10,850	7,934	39,302	--	--	--	--	30,185
Shake & shingle	8,128	6,401	700	982	--	--	--	--	45
Export	390	--	--	390	--	--	--	--	--
Post, pole & piling	160	--	--	125	--	--	35	--	--
<b>TOTAL, STATEWIDE</b>	<b>712,917</b>	<b>85,899</b>	<b>208,699</b>	<b>157,990</b>	<b>92,449</b>	<b>36,255</b>	<b>71,044</b>	<b>25,913</b>	<b>34,668</b>

NOTE: This table is a summary of the data as reported. By economic area the totals for the national forest in Table 7 may differ because individual mill data was reported in a different economic area to avoid disclosure.





# SUMMARY 1990

Table D-6

## Number of Mills Dependent upon Ownerships

Economic area and industry	National Forest				State				Bureau of Land Management			
	Dependency percent											
	0	1-33	34-66	67-100	0	1-33	34-66	67-100	0	1-33	34-66	67-100
<b>Puget Sound</b>												
Lumber	17	10	1	6	13	17	3	1	33	1	--	--
Veneer & plywood	4	1	--	--	4	1	--	--	4	1	--	--
Pulp	3	2	1	--	3	3	--	--	6	--	--	--
Shake & shingle	9	1	1	3	12	1	1	--	14	--	--	--
Export	29	1	--	--	7	16	5	2	30	--	--	--
Post, pole & piling	2	1	--	1	1	1	2	--	4	--	--	--
<b>Total</b>	<b>64</b>	<b>16</b>	<b>3</b>	<b>10</b>	<b>40</b>	<b>39</b>	<b>11</b>	<b>3</b>	<b>91</b>	<b>2</b>	<b>--</b>	<b>--</b>
<b>Olympic Peninsula</b>												
Lumber	16	10	6	3	10	20	2	3	35	--	--	--
Veneer & plywood	6	4	--	2	5	5	1	1	12	--	--	--
Pulp	3	2	--	--	1	3	1	--	5	--	--	--
Shake & shingle	19	5	5	3	18	5	3	6	31	1	--	--
Export	33	--	--	--	8	14	10	1	33	--	--	--
Post, pole & piling[1]	2	--	--	--	1	--	1	--	2	--	--	--
<b>Total</b>	<b>79</b>	<b>21</b>	<b>11</b>	<b>8</b>	<b>43</b>	<b>47</b>	<b>18</b>	<b>11</b>	<b>118</b>	<b>1</b>	<b>--</b>	<b>--</b>
<b>Lower Columbia</b>												
Lumber	6	4	2	1	3	10	--	--	12	1	--	--
Veneer & plywood	--	--	2	1	2	1	--	--	3	--	--	--
Pulp	3	1	1	2	5	2	--	--	7	--	--	--
Shake & shingle[2]	4	1	--	--	4	1	--	--	5	--	--	--
Export	10	--	--	--	1	8	1	--	10	--	--	--
Post, pole & piling[1]	1	--	--	--	1	--	--	--	1	--	--	--
<b>Total</b>	<b>24</b>	<b>6</b>	<b>5</b>	<b>4</b>	<b>16</b>	<b>22</b>	<b>1</b>	<b>--</b>	<b>38</b>	<b>1</b>	<b>--</b>	<b>--</b>
<b>Central Washington</b>												
Lumber	--	4	3	1	4	3	1	--	7	1	--	--
Veneer & plywood[3]	--	2	--	--	--	2	--	--	2	--	--	--
Pulp	--	--	--	--	--	--	--	--	--	--	--	--
Shake & shingle	1	--	--	--	1	--	--	--	1	--	--	--
Export	--	--	--	--	--	--	--	--	--	--	--	--
Post, pole & piling	--	--	--	--	--	--	--	--	--	--	--	--
<b>Total</b>	<b>1</b>	<b>6</b>	<b>3</b>	<b>1</b>	<b>5</b>	<b>5</b>	<b>1</b>	<b>--</b>	<b>10</b>	<b>1</b>	<b>--</b>	<b>--</b>
<b>Inland Empire</b>												
Lumber	6	7	1	2	7	9	--	--	14	2	--	--
Veneer & plywood[3]	--	1	--	--	--	1	--	--	--	1	--	--
Pulp	4	--	--	--	4	--	--	--	4	--	--	--
Shake & shingle[2]	--	--	--	--	--	--	--	--	--	--	--	--
Export	--	--	--	--	--	--	--	--	--	--	--	--
Post, pole & piling	2	1	--	--	3	--	--	--	3	--	--	--
<b>Total</b>	<b>12</b>	<b>9</b>	<b>1</b>	<b>2</b>	<b>14</b>	<b>10</b>	<b>--</b>	<b>--</b>	<b>21</b>	<b>3</b>	<b>--</b>	<b>--</b>
<b>Total, State</b>												
Lumber	45	35	13	13	37	59	6	4	101	5	--	--
Veneer & plywood	10	8	2	3	11	10	1	1	21	2	--	--
Pulp	13	5	2	2	13	8	1	--	22	--	--	--
Shake & shingle	33	7	6	6	35	7	4	6	51	1	--	--
Export	72	1	--	--	16	38	16	3	73	--	--	--
Post, pole & piling	7	2	--	1	6	1	3	--	10	--	--	--
<b>Total</b>	<b>180</b>	<b>58</b>	<b>23</b>	<b>25</b>	<b>118</b>	<b>123</b>	<b>31</b>	<b>14</b>	<b>278</b>	<b>8</b>	<b>--</b>	<b>--</b>

[1] Post, pole and piling in Lower Columbia combined with Olympic Peninsula to avoid disclosure.

[2] Shake and shingle in Inland Empire combined with Lower Columbia to avoid disclosure.

[3] Veneer and plywood in Inland Empire combined with Central Washington to avoid disclosure.

# SUMMARY 1990

Table D-6 (Continued)

Number of Mills Dependent upon Ownerships

Other Public				Forest Industry								Farmer & miscellaneous private			
				Own wood supply				Other wood supply							
Dependency percent															
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
26	8	--	--	27	5	2	--	15	9	8	2	8	12	5	9
5	--	--	--	5	--	--	--	4	--	1	--	4	1	--	--
6	--	--	--	4	--	2	--	3	3	--	--	3	3	--	--
14	--	--	--	14	--	--	--	11	1	--	2	14	--	--	--
24	6	--	--	24	2	2	2	3	4	18	5	9	17	3	1
2	2	--	--	4	--	--	--	1	1	1	1	1	3	--	--
77	16	--	--	78	7	6	2	37	18	28	10	39	36	8	10
26	5	2	2	29	1	4	1	17	9	6	3	15	12	3	5
12	--	--	--	10	--	1	1	7	1	2	2	5	6	--	1
2	3	--	--	3	2	--	--	2	2	1	--	2	2	1	--
24	6	--	2	32	--	--	--	20	8	1	3	29	3	--	--
28	5	--	--	25	4	--	4	2	8	14	9	6	24	3	--
2	--	--	--	2	--	--	--	--	--	1	1	1	1	--	--
94	19	2	4	101	7	5	6	48	28	25	18	58	48	7	6
11	2	--	--	9	1	3	--	2	5	2	4	3	8	1	1
3	--	--	--	2	1	--	--	2	1	--	--	1	1	1	--
6	1	--	--	6	--	1	--	7	--	--	--	4	2	--	1
4	--	1	--	5	--	--	--	5	--	--	--	5	--	--	--
10	--	--	--	6	1	1	2	2	3	2	3	3	5	1	1
1	--	--	--	1	--	--	--	--	--	--	1	1	--	--	--
35	3	1	--	29	3	5	2	18	9	4	8	17	16	3	3
6	2	--	--	5	1	1	1	4	3	1	--	1	5	2	--
1	--	1	--	2	--	--	--	2	--	--	--	1	--	1	--
1	--	--	--	1	--	--	--	1	--	--	--	--	--	--	1
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
8	2	1	--	6	3	1	1	7	3	1	--	2	5	3	1
10	6	--	--	7	3	5	1	12	3	1	--	1	7	3	5
--	1	--	--	--	--	1	--	1	--	--	--	--	1	--	--
4	--	--	--	4	--	--	--	4	--	--	--	4	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2	--	--	1	3	--	--	--	2	--	--	1	1	1	1	1
16	7	--	1	14	3	6	1	19	3	1	1	6	9	3	6
79	23	2	2	77	11	15	3	50	29	18	9	28	44	14	20
21	1	1	--	17	3	2	1	16	2	3	2	11	9	2	1
18	4	--	--	17	2	3	--	16	5	1	--	13	7	1	1
43	6	1	2	52	--	--	--	37	9	1	5	48	3	--	1
62	11	--	--	55	7	3	8	7	15	34	17	18	46	7	2
7	2	--	1	10	--	--	--	3	1	2	4	4	5	--	1
230	47	4	5	228	23	23	12	129	61	59	37	122	114	24	26

# SUMMARY 1990

## Table D-7

### Log Consumption by Ownership

(Thousand board feet, Scribner log rule)

Economic area and industry	All Owners	State	National [1]	Bureau of Land Management	Other public	Forest Industry		Farmer & Miscellaneous private
						Own wood supply	Other wood supply	
<b>Puget Sound</b>								
Lumber	785,596	193,293	159,094	271	13,009	66,333	205,506	148,090
Veneer & plywood[2]	--	--	--	--	--	--	--	--
Pulp	94,617	12,129	39,322	--	--	10,113	25,988	7,065
Shake & shingle	5,994	1,383	3,200	--	--	--	1,411	--
Export	877,268	161,875	390	--	19,369	291,375	222,995	181,264
Post, pole & piling	11,141	4,153	125	--	273	--	4,267	2,323
<b>Total</b>	<b>1,774,616</b>	<b>372,833</b>	<b>202,131</b>	<b>271</b>	<b>32,651</b>	<b>367,821</b>	<b>460,167</b>	<b>338,742</b>
<b>Olympic Peninsula</b>								
Lumber	729,221	96,744	128,323	--	26,326	194,658	188,665	94,505
Veneer & plywood[2]	124,931	16,220	7,017	311	--	39,212	43,808	18,363
Pulp	170,096	42,914	13,550	--	21,381	24,550	43,612	24,089
Shake & shingle	67,548	9,504	4,628	80	50,946	--	2,222	168
Export	920,557	201,383	--	--	7,553	303,182	271,382	137,057
Post, pole & piling[3]	20,708	1,737	--	--	--	--	18,624	347
<b>Total</b>	<b>2,033,061</b>	<b>368,502</b>	<b>153,518</b>	<b>391</b>	<b>106,206</b>	<b>561,602</b>	<b>568,313</b>	<b>274,529</b>
<b>Lower Columbia</b>								
Lumber	549,438	38,985	96,592	1,507	12,360	106,378	232,308	61,308
Veneer & plywood	49,988	965	29,227	--	--	1,930	3,860	14,006
Pulp	53,463	1,597	35,399	--	30	80	--	16,357
Shake & shingle[4]	1,280	300	300	--	600	--	--	80
Export	574,071	83,182	--	--	--	155,595	177,843	157,451
Post, pole & piling[3]	--	--	--	--	--	--	--	--
<b>Total</b>	<b>1,228,240</b>	<b>125,029</b>	<b>161,518</b>	<b>1,507</b>	<b>12,990</b>	<b>263,983</b>	<b>414,011</b>	<b>249,202</b>
<b>Central Washington</b>								
Lumber	241,573	13,549	67,148	621	19,399	92,870	14,967	33,019
Veneer & plywood[5]	155,515	11,151	37,665	561	15,807	53,397	--	36,934
Pulp	--	--	--	--	--	--	--	--
Shake & shingle[4]	--	--	--	--	--	--	--	--
Export	--	--	--	--	--	--	--	--
Post, pole & piling	--	--	--	--	--	--	--	--
<b>Total</b>	<b>397,088</b>	<b>24,700</b>	<b>104,813</b>	<b>1,182</b>	<b>35,206</b>	<b>146,267</b>	<b>14,967</b>	<b>69,953</b>
<b>Inland Empire</b>								
Lumber	362,309	19,306	90,902	592	10,342	102,032	17,130	122,005
Veneer & plywood[5]	--	--	--	--	--	--	--	--
Pulp	--	--	--	--	--	--	--	--
Shake & shingle	--	--	--	--	--	--	--	--
Export	--	--	--	--	--	--	--	--
Post, pole & piling	1,140	--	35	--	400	--	630	75
<b>Total</b>	<b>363,449</b>	<b>19,306</b>	<b>90,937</b>	<b>592</b>	<b>10,742</b>	<b>102,032</b>	<b>17,760</b>	<b>122,080</b>
<b>Total, State</b>								
Lumber	2,668,137	361,877	542,059	2,991	81,436	562,271	658,576	458,927
Veneer & plywood	330,434	28,336	73,909	872	15,807	94,539	47,668	69,303
Pulp	318,176	56,640	88,271	--	21,411	34,743	69,600	47,511
Shake & shingle	74,822	11,187	8,128	80	51,546	--	3,633	248
Export	2,371,896	446,440	390	--	26,922	750,152	672,220	475,772
Post, pole & piling	32,989	5,890	160	--	673	--	23,521	2,745
<b>TOTAL, STATEWIDE</b>	<b>5,796,454</b>	<b>910,370</b>	<b>712,917</b>	<b>3,943</b>	<b>197,795</b>	<b>1,441,705</b>	<b>1,475,218</b>	<b>1,054,506</b>

[1] National Forest includes Canadian national forest and British Columbia provincial forests.

[2] Veneer and plywood for Puget Sound combined with Olympic Peninsula to avoid disclosure.

[3] Post, pole and piling for Lower Columbia combined with Olympic Peninsula to avoid disclosure.

[4] Shake and shingle for Inland Empire combined with Lower Columbia to avoid disclosure.

[5] Veneer and plywood for Inland Empire combined with Central Washington to avoid disclosure.



# SUMMARY 1990

## 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
<b>Puget Sound</b>							
Lumber	785,596	337,205	215,591	32,318	3,485	242	--
Veneer & plywood[1]	--	--	--	--	--	--	--
Pulp	94,617	1,360	59,551	33,441	265	--	--
Shake & shingle	5,994	--	--	--	--	--	--
Export	877,268	558,312	256,375	13,377	9,895	44	--
Post, pole & piling	11,141	5,955	--	--	--	--	--
<b>Total</b>	<b>1,774,616</b>	<b>902,832</b>	<b>531,517</b>	<b>79,136</b>	<b>13,645</b>	<b>286</b>	<b>--</b>
<b>Olympic Peninsula</b>							
Lumber	729,221	298,260	287,492	8,649	3,502	--	--
Veneer & plywood[1]	124,931	77,796	24,862	3,311	2,155	--	600
Pulp	170,096	24,845	132,398	4,860	7,120	--	873
Shake & shingle	67,548	--	--	--	--	--	--
Export	920,557	464,610	383,399	16,921	34,352	--	829
Post, pole & piling[2]	20,708	20,708	--	--	--	--	--
<b>Total</b>	<b>2,033,061</b>	<b>886,219</b>	<b>828,151</b>	<b>33,741</b>	<b>47,129</b>	<b>--</b>	<b>2,302</b>
<b>Lower Columbia</b>							
Lumber	549,438	307,778	44,410	2,023	3	32,524	--
Veneer & plywood[4]	106,130	90,127	7,968	3,403	--	--	--
Pulp	53,463	15,863	27,163	--	--	--	88
Shake & shingle[2]	1,280	--	--	--	--	--	--
Export	574,071	477,684	80,361	8,639	2,780	--	--
Post, pole & piling[2]	--	--	--	--	--	--	--
<b>Total</b>	<b>1,284,382</b>	<b>891,452</b>	<b>159,902</b>	<b>14,065</b>	<b>2,783</b>	<b>32,524</b>	<b>88</b>
<b>Central Washington</b>							
Lumber	241,573	48,705	2,747	24,678	3,537	150,911	7,716
Veneer & plywood[3]	99,373	71,741	2,178	9,324	2,790	--	--
Pulp	--	--	--	--	--	--	--
Shake & shingle	--	--	--	--	--	--	--
Export	--	--	--	--	--	--	--
Post, pole & piling	--	--	--	--	--	--	--
<b>Total</b>	<b>340,946</b>	<b>120,446</b>	<b>4,925</b>	<b>34,002</b>	<b>6,327</b>	<b>150,911</b>	<b>7,716</b>
<b>Inland Empire</b>							
Lumber	362,309	125,087	38,413	24,696	21,557	107,307	19,911
Veneer & plywood[4]	--	--	--	--	--	--	--
Pulp	--	--	--	--	--	--	--
Shake & shingle[2]	--	--	--	--	--	--	--
Export	--	--	--	--	--	--	--
Post, pole & piling	1,140	--	--	--	--	--	1,140
<b>Total</b>	<b>363,449</b>	<b>125,087</b>	<b>38,413</b>	<b>24,696</b>	<b>21,557</b>	<b>107,307</b>	<b>21,051</b>
<b>Total, State</b>							
Lumber	2,668,137	1,117,035	588,653	92,364	32,084	290,984	27,627
Veneer & plywood	330,434	239,664	35,008	16,038	4,945	--	600
Pulp	318,176	42,068	219,112	38,301	7,385	--	961
Shake & shingle	74,822	--	--	--	--	--	--
Export	2,371,896	1,500,606	720,135	38,937	47,027	44	829
Post, pole & piling	32,989	26,663	--	--	--	--	1,140
<b>TOTAL, STATEWIDE</b>	<b>5,796,454</b>	<b>2,926,036</b>	<b>1,562,908</b>	<b>185,640</b>	<b>91,441</b>	<b>291,028</b>	<b>31,157</b>

[1] Post, pole and piling for Lower Columbia combined with Olympic Peninsula to avoid disclosure.

[2] Post, pole and piling for Lower Columbia combined with Olympic Peninsula to avoid disclosure.

[3] Shake and shingle for Inland Empire combined with Lower Columbia to avoid disclosure.

[4] Veneer and plywood for Inland Empire combined with Central Washington to avoid disclosure.

# SUMMARY 1990

Table D-8 (Continued)

Log Consumption by Species

(Thousand board feet, Scribner log rule)

Western redcedar	Other softwoods	Hardwoods
89,523	--	107,232
--	--	--
--	--	--
5,994	--	--
20,476	7,243	11,546
5,186	--	--
121,179	7,243	118,778
52,195	14	79,109
1,398	--	14,809
--	--	--
67,540	8	--
15,863	1,531	3,052
--	--	--
136,996	1,553	96,970
64,509	5,191	93,000
--	4,632	--
315	--	10,034
1,264	16	--
--	3,863	744
--	--	--
66,088	13,702	103,778
--	3,279	--
--	13,340	--
--	--	--
--	--	--
--	--	--
--	--	--
--	16,619	--
15,812	9,522	4
--	--	--
--	--	--
--	--	--
--	--	--
15,812	9,522	4
222,039	18,006	279,345
1,398	17,972	14,809
315	--	10,034
74,798	24	--
36,339	12,637	15,342
5,186	--	--
340,075	48,639	319,530

# SUMMARY 1990

Table D-9

## Production and Disposition of Wood and Bark Residues (Tons, dry weight)

Economic area and residue-producing industry	Wood residues							
	All residues	All wood	Used[1]					Unused
			Total	Pulp	Board	Fuel	Other	
<b>Puget Sound</b>								
Lumber	1,424,301	1,099,501	1,080,675	495,280	--	278,672	306,723	18,826
Veneer & plywood[2]	--	--	--	--	--	--	--	--
Shake & shingle	8,001	6,027	1,138	--	--	268	870	4,889
Other[3]	58,851	--	--	--	--	--	--	--
<b>Total</b>	<b>1,491,153</b>	<b>1,105,528</b>	<b>1,081,813</b>	<b>495,280</b>	<b>--</b>	<b>278,940</b>	<b>307,593</b>	<b>23,715</b>
<b>Olympic Peninsula</b>								
Lumber	1,418,155	1,105,001	1,086,477	566,108	57,780	334,504	128,085	18,524
Veneer & plywood[2]	225,151	183,498	183,498	107,379	3,367	63,631	9,121	--
Shake & shingle	24,066	17,561	4,939	--	--	3,574	1,365	12,622
Other[3] [4]	43,358	--	--	--	--	--	--	--
<b>Total</b>	<b>1,710,730</b>	<b>1,306,060</b>	<b>1,274,914</b>	<b>673,487</b>	<b>61,147</b>	<b>401,709</b>	<b>138,571</b>	<b>31,146</b>
<b>Lower Columbia</b>								
Lumber	967,602	751,964	751,964	359,929	34,879	341,228	15,928	--
Veneer & plywood	133,674	107,948	107,751	64,804	7,260	14,978	20,709	197
Shake & shingle[5]	2,182	1,817	1,817	225	--	1,443	149	--
Other[3] [4]	52,047	--	--	--	--	--	--	--
<b>Total</b>	<b>1,155,505</b>	<b>861,729</b>	<b>861,532</b>	<b>424,958</b>	<b>42,139</b>	<b>357,649</b>	<b>36,786</b>	<b>197</b>
<b>Central Washington</b>								
Lumber	392,756	309,234	283,106	33,426	30,828	148,668	70,184	26,128
Veneer & plywood[6]	313,672	249,992	249,992	189,435	12,650	41,481	6,426	--
Shake & shingle[5]	--	--	--	--	--	--	--	--
Other[3]	--	--	--	--	--	--	--	--
<b>Total</b>	<b>706,428</b>	<b>559,226</b>	<b>533,098</b>	<b>222,861</b>	<b>43,478</b>	<b>190,149</b>	<b>76,610</b>	<b>26,128</b>
<b>Inland Empire</b>								
Lumber	621,042	484,537	484,499	242,728	25,931	201,235	14,605	38
Veneer & plywood[6]	--	--	--	--	--	--	--	--
Shake & shingle	--	--	--	--	--	--	--	--
Other[3]	353	--	--	--	--	--	--	--
<b>Total</b>	<b>621,395</b>	<b>484,537</b>	<b>484,499</b>	<b>242,728</b>	<b>25,931</b>	<b>201,235</b>	<b>14,605</b>	<b>38</b>
<b>Total, State</b>								
Lumber	4,823,856	3,750,237	3,686,721	1,697,471	149,418	1,304,307	535,525	63,516
Veneer & plywood	672,497	541,438	541,241	361,618	23,277	120,090	36,256	197
Shake & shingle	34,249	25,405	7,894	225	--	5,285	2,384	17,511
Other[3]	154,609	--	--	--	--	--	--	--
<b>TOTAL, STATEWIDE</b>	<b>5,685,211</b>	<b>4,317,080</b>	<b>4,235,856</b>	<b>2,059,314</b>	<b>172,695</b>	<b>1,429,682</b>	<b>574,165</b>	<b>81,224</b>

[1] Used residues were not necessarily consumed in the economic area in which they were produced.

[2] Veneer and plywood for Puget Sound combined with Olympic Peninsula to avoid disclosure.

[3] "Other" includes log export, and post, pole and piling operations.

[4] Post, pole and piling for Lower Columbia combined with Olympic Peninsula to avoid disclosure.

[5] Shake and shingle for Central Washington combined with Lower Columbia to avoid disclosure.

[6] Veneer and plywood for Inland Empire combined with Central Washington to avoid disclosure.



# SUMMARY 1990

Table D-9 (Continued)

Production and Disposition of Wood and Bark Residues (Tons, dry weight)

Bark residues					
All bark	Used[1]				
	Total	Pulp	Fuel	Other	Unused
324,800	321,227	--	143,404	177,823	3,573
--	--	--	--	--	--
1,974	316	--	--	316	1,658
58,851	58,820	--	1,570	57,250	31
385,625	380,363	--	144,974	235,389	5,262
313,154	309,757	--	202,878	106,879	3,397
41,653	41,653	--	38,485	3,168	--
6,505	1,871	--	1,573	298	4,634
43,358	43,358	--	38,582	4,776	--
404,670	396,639	--	281,518	115,121	8,031
215,638	215,638	154	192,257	23,227	--
25,726	13,465	--	13,465	--	12,261
365	365	--	346	19	--
52,047	52,047	--	38,950	13,097	--
293,776	281,515	154	245,018	36,343	12,261
83,522	74,571	9	62,864	11,698	8,951
63,680	63,680	--	62,731	949	--
--	--	--	--	--	--
--	--	--	--	--	--
147,202	138,251	9	125,595	12,647	8,951
136,505	136,505	--	131,530	4,975	--
--	--	--	--	--	--
--	--	--	--	--	--
353	12	--	--	12	341
136,858	136,517	--	131,530	4,987	341
1,073,619	1,057,698	163	732,933	324,602	15,921
131,059	118,798	--	114,681	4,117	12,261
8,844	2,552	--	1,919	633	6,292
154,609	154,237	--	79,102	75,135	372
1,368,131	1,333,285	163	928,635	404,487	34,846

# SUMMARY 1990

Table D-10

Log Consumption by Timber Age  
(Thousand board feet, Scribner log rule)

Economic area and industry	All age groups	Old growth (100+ years)	Young growth (Less than 100 years)
<b>Puget Sound</b>			
Lumber	785,596	143,735	641,861
Veneer & plywood[1]	--	--	--
Pulp	94,617	40,800	53,817
Shake & shingle	5,994	5,650	344
Export	877,268	123,136	754,132
Post, pole & piling	11,141	7	11,134
<b>Total</b>	<b>1,774,616</b>	<b>313,328</b>	<b>1,461,288</b>
<b>Olympic Peninsula</b>			
Lumber	729,221	250,963	478,258
Veneer & plywood[1]	124,931	14,175	110,756
Pulp	170,096	28,100	141,996
Shake & shingle	67,548	66,776	772
Export	920,557	135,234	785,323
Post, pole & piling[2]	20,708	--	20,708
<b>Total</b>	<b>2,033,061</b>	<b>495,248</b>	<b>1,537,813</b>
<b>Lower Columbia</b>			
Lumber	549,438	101,350	448,088
Veneer & plywood	49,988	40,803	9,185
Pulp	53,463	1,576	51,887
Shake & shingle[3]	1,280	1,280	--
Export	574,071	56,314	517,757
Post, pole & piling[2]	--	--	--
<b>Total</b>	<b>1,228,240</b>	<b>201,323</b>	<b>1,026,917</b>
<b>Central Washington</b>			
Lumber	241,573	81,022	160,551
Veneer & plywood[4]	155,515	52,045	103,470
Pulp	--	--	--
Shake & shingle[3]	--	--	--
Export	--	--	--
Post, pole & piling	--	--	--
<b>Total</b>	<b>397,088</b>	<b>133,067</b>	<b>264,021</b>
<b>Inland Empire</b>			
Lumber	362,309	86,948	275,361
Veneer & plywood[4]	--	--	--
Pulp	--	--	--
Shake & shingle	--	--	--
Export	--	--	--
Post, pole & piling	1,140	--	1,140
<b>Total</b>	<b>363,449</b>	<b>86,948</b>	<b>276,501</b>
<b>Total, State</b>			
Lumber	2,668,137	664,018	2,004,119
Veneer & plywood	330,434	107,023	223,411
Pulp	318,176	70,476	247,700
Shake & shingle	74,822	73,706	1,116
Export	2,371,896	314,684	2,057,212
Post, pole & piling	32,989	7	32,982
<b>TOTAL, STATEWIDE</b>	<b>5,796,454</b>	<b>1,229,914</b>	<b>4,566,540</b>

- [1] Veneer and plywood for Puget Sound combined with Olympic Peninsula to avoid disclosure.  
 [2] Post, pole and piling for Lower Columbia combined with Olympic Peninsula to avoid disclosure.  
 [3] Shake and shingle for Inland Empire combined with Lower Columbia to avoid disclosure.  
 [4] Veneer and plywood for Inland Empire combined with Central Washington to avoid disclosure.

# SAWMILLS 1990

Table D-11

## Number of Sawmills by Mill-Size Class

Economic area and county	All classes	Industry			
		Mill-size class[1]			
		D	C	B	A
<b>Puget Sound</b>					
Island	1	--	1	--	--
King	5	3	--	--	2
Kitsap	1	--	--	--	1
Pierce	7	--	--	3	4
San Juan	1	1	--	--	--
Skagit	4	2	--	1	1
Snohomish	14	3	5	2	4
Whatcom	1	--	1	--	--
<b>Total</b>	<b>34</b>	<b>9</b>	<b>7</b>	<b>6</b>	<b>12</b>
<b>Olympic Peninsula</b>					
Clallam	6	5	1	--	--
Grays Harbor	7	2	1	--	4
Jefferson	3	2	--	1	--
Lewis	9	2	1	2	4
Mason	4	--	1	1	2
Pacific	2	--	--	1	1
Thurston	4	3	--	--	1
<b>Total</b>	<b>35</b>	<b>14</b>	<b>4</b>	<b>5</b>	<b>12</b>
<b>Lower Columbia</b>					
Clark	2	--	--	1	1
Cowlitz	8	2	1	2	3
Klickitat	2	--	--	--	2
Skamania	1	--	--	--	1
<b>Total</b>	<b>13</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>7</b>
<b>Central Washington</b>					
Chelan	1	1	--	--	--
Kittitas	1	1	--	--	--
Okanogan	4	1	1	--	2
Yakima	2	--	--	--	2
<b>Total</b>	<b>8</b>	<b>3</b>	<b>1</b>	<b>--</b>	<b>4</b>
<b>Inland Empire</b>					
Asotin	1	--	1	--	--
Ferry	2	--	1	--	1
Pend Oreille	1	--	--	--	1
Spokane	1	--	1	--	--
Stevens	9	3	1	2	3
Walla Walla	2	1	--	--	1
<b>Total</b>	<b>16</b>	<b>4</b>	<b>4</b>	<b>2</b>	<b>6</b>
<b>TOTAL, STATEWIDE</b>	<b>106</b>	<b>32</b>	<b>17</b>	<b>16</b>	<b>41</b>

[1] 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 +.

# SAWMILLS 1990

Table D-12

Installed Eight-hour Single-shift Capacity  
(Thousand board, feet, lumber tally)

Economic area and county	Total capacity	Mill-size class [1]			
		D	C	B	A
<b>Puget Sound</b>					
Island	40	--	40	--	--
King	674	24	--	--	650
Kitsap	450	--	--	--	450
Pierce	1,045	--	--	320	725
San Juan	6	6	--	--	--
Skagit	307	22	--	105	180
Snohomish	1,846	71	320	210	1,245
Whatcom	75	--	75	--	--
<b>Total</b>	<b>4,443</b>	<b>123</b>	<b>435</b>	<b>635</b>	<b>3,250</b>
<b>Olympic Peninsula</b>					
Clallam	130	65	65	--	--
Grays Harbor	927	37	45	--	845
Jefferson	127	27	--	100	--
Lewis	1,113	8	75	210	820
Mason	765	--	65	100	600
Pacific	330	--	--	80	250
Thurston	197	7	--	--	190
<b>Total</b>	<b>3,589</b>	<b>144</b>	<b>250</b>	<b>490</b>	<b>2,705</b>
<b>Lower Columbia</b>					
Clark	290	--	--	80	210
Cowlitz	1,333	9	62	192	1,070
Klickitat	400	--	--	--	400
Skamania	300	--	--	--	300
<b>Total</b>	<b>2,323</b>	<b>9</b>	<b>62</b>	<b>272</b>	<b>1,980</b>
<b>Central Washington</b>					
Chelan	20	20	--	--	--
Kittitas	5	5	--	--	--
Okanogan	455	20	75	--	360
Yakima	400	--	--	--	400
<b>Total</b>	<b>880</b>	<b>45</b>	<b>75</b>	<b>--</b>	<b>760</b>
<b>Inland Empire</b>					
Asotin	75	--	75	--	--
Ferry	210	--	50	--	160
Pend Oreille	150	--	--	--	150
Spokane	75	--	75	--	--
Stevens	675	24	50	176	425
Walla Walla	153	8	--	--	145
<b>Total</b>	<b>1,338</b>	<b>32</b>	<b>250</b>	<b>176</b>	<b>880</b>
<b>TOTAL, STATEWIDE</b>	<b>12,573</b>	<b>353</b>	<b>1,072</b>	<b>1,573</b>	<b>9,575</b>

[1] Mill-size classes are defined 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 1990

Table D-13

Number of Sawmills with Selected Equipment by Mill-Size Class

Economic area and mill-size class[1]	Barker	Chipper	Planer	Burner	Kiln
<b>Puget Sound</b>					
D	4	5	4	--	1
C	7	7	5	1	2
B	6	6	5	1	3
A	12	11	12	--	5
Total	29	29	26	2	11
<b>Olympic Peninsula</b>					
D	1	4	7	1	2
C	4	3	2	--	2
B	5	5	4	--	4
A	12	11	12	1	10
Total	22	23	25	2	18
<b>Lower Columbia</b>					
D	--	1	--	--	--
C	1	1	--	--	--
B	3	3	3	--	2
A	7	5	6	1	4
Total	11	10	9	1	6
<b>Central Washington</b>					
D	2	2	1	--	1
C	1	1	1	1	--
B	--	--	--	--	--
A	4	4	4	--	4
Total	7	7	6	1	5
<b>Inland Empire</b>					
D	--	--	4	1	--
C	4	4	4	--	3
B	2	2	1	--	1
A	6	6	6	1	5
Total	12	12	15	2	9
<b>Total, State</b>					
D	7	12	16	2	4
C	17	16	12	2	7
B	16	16	13	1	10
A	41	37	40	3	28
<b>TOTAL, STATEWIDE</b>	<b>81</b>	<b>81</b>	<b>81</b>	<b>8</b>	<b>49</b>

[1] Mill-size classes are defined 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 1990

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	2	2	3	--	2
Kitsap	1	1	1	--	--
Pierce	7	7	6	--	2
San Juan	--	1	1	--	--
Skagit	3	2	2	1	1
Snohomish	14	14	11	--	5
Whatcom	1	1	1	--	1
<b>Total</b>	<b>29</b>	<b>29</b>	<b>26</b>	<b>2</b>	<b>11</b>
<b>Olympic Peninsula</b>					
Clallam	1	2	2	1	--
Grays Harbor	6	6	6	--	4
Jefferson	1	2	2	--	1
Lewis	7	8	7	1	7
Mason	4	3	4	--	4
Pacific	2	1	2	--	2
Thurston	1	1	2	--	--
<b>Total</b>	<b>22</b>	<b>23</b>	<b>25</b>	<b>2</b>	<b>18</b>
<b>Lower Columbia</b>					
Clark	2	2	2	--	1
Cowlitz	6	5	4	--	2
Klickitat	2	2	2	1	2
Skamania	1	1	1	--	1
<b>Total</b>	<b>11</b>	<b>10</b>	<b>9</b>	<b>1</b>	<b>6</b>
<b>Central Washington</b>					
Chelan	1	1	--	--	--
Kittitas	--	--	--	--	--
Okanogan	4	4	4	1	3
Yakima	2	2	2	--	2
<b>Total</b>	<b>7</b>	<b>7</b>	<b>6</b>	<b>1</b>	<b>5</b>
<b>Inland Empire</b>					
Asotin	1	1	1	--	1
Ferry	2	2	2	--	1
Pend Oreille	1	1	1	--	1
Spokane	1	1	1	--	1
Stevens	6	6	8	2	4
Walla Walla	1	1	2	--	1
<b>Total</b>	<b>12</b>	<b>12</b>	<b>15</b>	<b>2</b>	<b>9</b>
<b>TOTAL, STATEWIDE</b>	<b>81</b>	<b>81</b>	<b>81</b>	<b>8</b>	<b>49</b>

# SAWMILLS 1990

Table D-15

Number of Sawmills by Headrig Type and Size

Economic area and mill-size class[1]	Circular saw					Band saw			Gang saw	Chipping saw	Scragg
	2 ft.	4 ft.	6 ft.	8 ft.	8+ ft.	4 ft.	6 ft.	8 ft.	2 ft.	2 ft.	2 ft.
<b>Puget Sound</b>											
D	1	7	--	--	--	1	--	--	--	--	--
C	--	1	--	--	--	4	2	--	--	2	1
B	--	1	--	--	--	4	1	--	--	2	1
A	--	--	--	--	--	7	4	--	1	4	1
<b>Total</b>	<b>1</b>	<b>9</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>16</b>	<b>7</b>	<b>--</b>	<b>1</b>	<b>8</b>	<b>3</b>
<b>Olympic Peninsula</b>											
D	--	9	--	2	1	3	--	--	--	--	--
C	--	--	--	--	--	2	2	--	--	--	--
B	--	1	1	--	--	2	1	--	--	1	--
A	1	--	1	--	--	5	3	1	--	2	1
<b>Total</b>	<b>1</b>	<b>10</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>12</b>	<b>6</b>	<b>1</b>	<b>--</b>	<b>3</b>	<b>1</b>
<b>Lower Columbia</b>											
D	--	1	1	--	--	--	--	--	--	--	--
C	--	1	--	--	--	--	--	--	--	--	1
B	--	--	--	--	--	1	2	--	1	1	--
A	--	--	--	--	--	4	3	--	--	1	--
<b>Total</b>	<b>--</b>	<b>2</b>	<b>1</b>	<b>--</b>	<b>--</b>	<b>5</b>	<b>5</b>	<b>--</b>	<b>1</b>	<b>2</b>	<b>1</b>
<b>Central Washington</b>											
D	--	1	--	--	--	--	--	--	--	2	--
C	--	--	--	--	--	1	--	--	--	--	--
B	--	--	--	--	--	--	--	--	--	--	--
A	--	--	--	--	--	1	3	--	--	--	--
<b>Total</b>	<b>--</b>	<b>1</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>2</b>	<b>3</b>	<b>--</b>	<b>--</b>	<b>2</b>	<b>--</b>
<b>Inland Empire</b>											
D	1	2	1	--	--	--	--	--	--	--	--
C	--	2	--	--	--	2	--	--	--	--	--
B	--	--	--	--	--	2	--	--	--	--	--
A	1	--	--	--	--	6	--	--	2	--	--
<b>Total</b>	<b>2</b>	<b>4</b>	<b>1</b>	<b>--</b>	<b>--</b>	<b>10</b>	<b>--</b>	<b>--</b>	<b>2</b>	<b>--</b>	<b>--</b>
<b>Total, State</b>											
D	2	20	2	2	1	4	--	--	--	2	--
C	--	4	--	--	--	9	4	--	--	2	2
B	--	2	1	--	--	9	4	--	1	4	1
A	2	--	1	--	--	23	13	1	3	7	2
<b>Total</b>	<b>4</b>	<b>26</b>	<b>4</b>	<b>2</b>	<b>1</b>	<b>45</b>	<b>21</b>	<b>1</b>	<b>4</b>	<b>15</b>	<b>5</b>

[1] Mill-size classes are defined 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. This means the 6-foot size class includes saws 49 through 72 inches.

# SAWMILLS 1990

Table D-16

Number of Sawmills by Tenure of Present Ownership by Site Occupancy

Present mill-size class[1]	Site occupancy (years)	All mills	Tenure of present mill ownership (years)				
			0-2	3-5	6-10	11-20	21+
D	0-2	1	1	--	--	--	--
	3-5	4	1	2	--	1	--
	6-10	4	--	--	4	--	--
	11-20	10	--	--	2	8	--
	21+	13	--	1	3	1	8
Total		32	2	3	9	10	8
C	0-2	--	--	--	--	--	--
	3-5	1	--	1	--	--	--
	6-10	2	--	--	1	1	--
	11-20	4	--	--	1	3	--
	21+	10	--	--	--	1	9
Total		17	--	1	2	5	9
B	0-2	--	--	--	--	--	--
	3-5	--	--	--	--	--	--
	6-10	1	--	--	1	--	--
	11-20	4	--	2	--	2	--
	21+	11	--	--	3	3	5
Total		16	--	2	4	5	5
A	0-2	--	--	--	--	--	--
	3-5	2	--	2	--	--	--
	6-10	2	--	1	1	--	--
	11-20	7	--	--	1	6	--
	21+	30	1	4	7	1	17
Total		41	1	7	9	7	17
Total, State	0-2	1	1	--	--	--	--
	3-5	7	1	5	--	1	--
	6-10	9	--	1	7	1	--
	11-20	25	--	2	4	19	--
	21+	64	1	5	13	6	39
TOTAL, STATEWIDE		106	3	13	24	27	39

[1] Mill-size classes are defined 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 1990

Table D-17

## Average Number of Operating Days

Economic area and mill-size class[1]	Average number of operating days per year	Economic area and mill-size class[1]	Average number of operating days per year
<b>Puget Sound</b>		<b>Central Washington</b>	
D	173	D	146
C	210	C (Combined with D)	--
B	231	B	--
A	225	A	252
<hr/>		<hr/>	
Average	209	Average	199
<b>Olympic Peninsula</b>		<b>Inland Empire</b>	
D	139	D	56
C	238	C	240
B	242	B (Combined with C)	--
A	232	A	220
<hr/>		<hr/>	
Average	197	Average	186
<b>Lower Columbia</b>		<b>State</b>	
D	153	D	134
C (Combined with D)	--	C	226
B	242	B	238
A	232	A	230
<hr/>		<hr/>	
Average	216	Average	202

[1] Mill-size classes are defined 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 1990

## Table D-18

### Type of Wood Consumed

(Thousand board feet)

Economic area and mill-size class [1]	Roundwood			Other	
	All roundwood	Sound logs	Utility logs	Peeler cores	Cants
	-----Scribner log rule-----			---Lumber tally---	
<b>Puget Sound</b>					
D	12,845	12,526	319	--	--
C	53,743	51,791	1,952	--	--
B	170,805	141,529	29,276	--	--
A	548,203	454,212	93,991	--	--
<b>Total</b>	<b>785,596</b>	<b>660,058</b>	<b>125,538</b>	<b>--</b>	<b>--</b>
<b>Olympic Peninsula</b>					
D	13,000	11,407	1,593	--	--
C	56,000	48,400	7,600	--	--
B	133,000	71,830	61,170	--	--
A	527,221	448,413	78,808	--	--
<b>Total</b>	<b>729,221</b>	<b>580,050</b>	<b>149,171</b>	<b>--</b>	<b>--</b>
<b>Lower Columbia</b>					
D and C [2]	11,930	11,140	790	--	--
B	105,000	72,900	32,100	--	--
A	432,508	400,213	32,295	2,605	--
<b>Total</b>	<b>549,438</b>	<b>484,253</b>	<b>65,185</b>	<b>2,605</b>	<b>--</b>
<b>Central Washington</b>					
D and C [2]	12,798	11,862	936	--	--
B	--	--	--	--	--
A	228,775	228,227	548	--	--
<b>Total</b>	<b>241,573</b>	<b>240,089</b>	<b>1,484</b>	<b>--</b>	<b>--</b>
<b>Inland Empire</b>					
D	187	182	5	--	--
C and B [2]	134,969	133,569	1,400	--	--
A	227,153	212,957	14,196	--	--
<b>Total</b>	<b>362,309</b>	<b>346,708</b>	<b>15,601</b>	<b>--</b>	<b>--</b>
<b>Total, State</b>					
D [3]	50,760	47,117	3,643	--	--
C [3] [4]	244,712	233,760	10,952	--	--
B [4]	408,805	286,259	122,546	--	--
A	1,963,860	1,744,022	219,838	2,605	--
<b>TOTAL, STATEWIDE</b>	<b>2,668,137</b>	<b>2,311,158</b>	<b>356,979</b>	<b>2,605</b>	<b>--</b>

[1] Mill-size classes are defined as follows: Class D mills = less than 40,000 board feet of capacity per 8-hour shift; C = 40,000 - 79,999; B = 80,000 - 119,999; A = 120,000 +.

[2] Combined to avoid disclosure.

[3] Total for Class D includes Class C for Lower Columbia and Central Washington.

[4] Total for Class C includes Class B for Inland Empire.

# SAWMILLS 1990

## Table D-19

### Age of Logs Consumed by Mill-Size Class (Thousand board feet, Scribner log rule)

Economic area and mill-size class[1]	All age groups	Old growth (100 + years)	Young growth (less than 100 years)
<b>Puget Sound</b>			
D	12,845	140	12,705
C	53,743	21,849	31,894
B	170,805	17,359	153,446
A	548,203	104,387	443,816
Total	785,596	143,735	641,861
<b>Olympic Peninsula</b>			
D	13,000	5,892	7,108
C	56,000	20,000	36,000
B	133,000	36,700	96,300
A	527,221	188,371	338,850
Total	729,221	250,963	478,258
<b>Lower Columbia</b>			
D and C[2]	11,930	415	11,515
B	105,000	600	104,400
A	432,508	100,335	332,173
Total	549,438	101,350	448,088
<b>Central Washington</b>			
D and C[2]	12,798	521	12,277
B	--	--	--
A	228,775	80,501	148,274
Total	241,573	81,022	160,551
<b>Inland Empire</b>			
D	187	76	111
C and B[2]	134,969	57,015	77,954
A	227,153	29,857	197,296
Total	362,309	86,948	275,361
<b>Total, State</b>			
D[3]	50,760	7,044	43,716
C[3][4]	244,712	98,864	145,848
B[4]	408,805	54,659	354,146
A	1,963,860	503,451	1,460,409
<b>TOTAL, STATEWIDE</b>	<b>2,668,137</b>	<b>664,018</b>	<b>2,004,119</b>

[1] Mill-size class definitions are as follows: Class D mills = less than 40,000 board feet of capacity per 8-hour shift; C = 40,000 - 79,999; B = 80,000 - 119,999; A = 120,000 +.

[2] Combined to avoid disclosure.

[3] Total for Class D includes Class C for Lower Columbia and Central Washington.

[4] Total for Class C includes Class B for Inland Empire.

# SAWMILLS 1990

## Table D-20

### Age of Log Consumption 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/ and Whatcom[1]	83,094	6,500	76,594
King	97,100	21,975	75,125
Pierce	251,352	23,409	227,943
Skagit	74,122	1,163	72,959
Snohomish	279,928	90,688	189,240
<b>Total</b>	<b>785,596</b>	<b>143,735</b>	<b>641,861</b>
<b>Olympic Peninsula</b>			
Clallam	18,240	17,870	370
Grays Harbor	132,957	112,208	20,749
Jefferson/Pacific[1]	131,420	35,008	96,412
Lewis	273,944	85,877	188,067
Mason	147,520	--	147,520
Thurston	25,140	--	25,140
<b>Total</b>	<b>729,221</b>	<b>250,963</b>	<b>478,258</b>
<b>Lower Columbia</b>			
Clark/Klickitat/Skamania[1]	164,945	100,935	64,010
Cowlitz	384,493	415	384,078
<b>Total</b>	<b>549,438</b>	<b>101,350</b>	<b>448,088</b>
<b>Central Washington</b>			
Chelan/Kittitas/Yakima[1]	123,237	63,987	59,250
Okanogan	118,336	17,035	101,301
<b>Total</b>	<b>241,573</b>	<b>81,022</b>	<b>160,551</b>
<b>Inland Empire</b>			
Asotin/Walla Walla[1]	72,351	6,003	66,348
Ferry/Pend Oreille/Spokane[1]	110,000	5,400	104,600
Stevens	179,958	75,545	104,413
<b>Total</b>	<b>362,309</b>	<b>86,948</b>	<b>275,361</b>
<b>TOTAL, STATEWIDE</b>	<b>2,668,137</b>	<b>664,018</b>	<b>2,004,119</b>

[1] Combined to avoid disclosure.

# SAWMILLS 1990

Table D-21

Log Inventory Changes, Log Consumption, and Apparent Log Receipts  
(Thousand board feet, Scribner log rule)

Economic area	Log inventory		Net change	1990 log consumption	Apparent 1990 log receipts
	January 1, 1990	December 31, 1990			
Puget Sound	125,113	146,535	21,422	785,596	807,018
Olympic Peninsula	121,997	107,196	(14,801)	729,221	714,420
Lower Columbia	71,521	59,819	(11,702)	549,438	537,736
Central Washington	51,060	35,846	(15,214)	241,573	226,359
Inland Empire	59,593	57,023	(2,570)	362,309	359,739
<b>TOTAL, STATEWIDE</b>	<b>429,284</b>	<b>406,419</b>	<b>(22,865)</b>	<b>2,668,137</b>	<b>2,645,272</b>

# SAWMILLS 1990

Table D-22

## Ownership Origin of Logs Consumed by Mill-Size Class

(Thousand board feet, Scribner log rule)

Economic area and mill-size class[1]	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	12,845	282	--	--	411	15	1,165	10,972
C	53,743	4,539	18,967	--	374	4,873	13,777	11,213
B	170,805	47,429	18,279	271	3,685	6,970	85,313	8,858
A	548,203	141,043	121,848	--	8,539	54,475	105,251	117,047
Total	785,596	193,293	159,094	271	13,009	66,333	205,506	148,090
<b>Olympic Peninsula</b>								
D	13,000	3,490	1,136	--	76	8	4,810	3,480
C	56,000	8,400	15,280	--	4,000	--	21,120	7,200
B	133,000	48,250	12,150	--	2,250	14,000	32,700	23,650
A	527,221	36,604	99,757	--	20,000	180,650	130,035	60,175
Total	729,221	96,744	128,323	--	26,326	194,658	188,665	94,505
<b>Lower Columbia</b>								
D and C[2]	11,930	655	1,725	--	9	--	6,070	3,471
B	105,000	12,000	--	--	--	19,950	47,700	25,350
A	432,508	26,330	94,867	1,507	12,351	86,428	178,538	32,487
Total	549,438	38,985	96,592	1,507	12,360	106,378	232,308	61,308
<b>Central Washington</b>								
D and C[2]	12,798	3,683	7,608	--	35	--	47	1,425
B	--	--	--	--	--	--	--	--
A	228,775	9,866	59,540	621	19,364	92,870	14,920	31,594
Total	241,573	13,549	67,148	621	19,399	92,870	14,967	33,019
<b>Inland Empire</b>								
D	187	1	1	--	--	8	--	177
C and B[2]	134,969	10,253	26,352	592	3,892	30,094	--	63,786
A	227,153	9,052	64,549	--	6,450	71,930	17,130	58,042
Total	362,309	19,306	90,902	592	10,342	102,032	17,130	122,005
<b>Total, State</b>								
D[3]	50,760	8,111	10,470	--	531	31	12,092	19,525
C[3][4]	244,712	23,192	60,599	592	8,266	34,967	34,897	82,199
B[4]	408,805	107,679	30,429	271	5,935	40,920	165,713	57,858
A	1,963,860	222,895	440,561	2,128	66,704	486,353	445,874	299,345
Total	2,668,137	361,877	542,059	2,991	81,436	562,271	658,576	458,927

[1] Mill-size class defined as follows: Class D mills = less than 40,000 board feet of capacity per 8-hour shift; C = 40,000 - 79,000; B = 80,000 - 119,999; A = 120,000 +.

[2] Combined to avoid disclosure.

[3] Total for Class D includes Class C for Lower Columbia and Central Washington.

[4] Total for Class C includes Class B for Inland Empire.



# SAWMILLS 1990

Table D-23

Ownership Origin of Logs Consumed by County  
(Thousand board feet, Scribner log rule)

Economic area and county	All owners	State	National Forest	Bureau of Land Management	Other public
<b>Puget Sound</b>					
Island/Kitsap/San Juan and Whatcom[1]	83,094	34,245	--	--	374
King	97,100	1,936	31,423	--	439
Pierce	251,352	67,049	34,579	271	8,235
Skagit	74,122	27,302	1,162	--	2,450
Snohomish	279,928	62,761	91,930	--	1,511
<b>Total</b>	<b>785,596</b>	<b>193,293</b>	<b>159,094</b>	<b>271</b>	<b>13,009</b>
<b>Olympic Peninsula</b>					
Clallam	18,240	4,146	10,016	--	--
Grays Harbor	132,957	7,156	32,087	--	4,014
Jefferson/Pacific[1]	131,420	37,138	11,270	--	562
Lewis	273,944	39,828	73,000	--	21,700
Mason	147,520	4,676	1,950	--	--
Thurston	25,140	3,800	--	--	50
<b>Total</b>	<b>729,221</b>	<b>96,744</b>	<b>128,323</b>	<b>--</b>	<b>26,326</b>
<b>Lower Columbia</b>					
Clark/Klickitat/Skamania[1]	164,945	14,830	87,367	1,507	12,351
Cowlitz	384,493	24,155	9,225	--	9
<b>Total</b>	<b>549,438</b>	<b>38,985</b>	<b>96,592</b>	<b>1,507</b>	<b>12,360</b>
<b>Central Washington</b>					
Chelan/Kittitas/Yakima[1]	123,237	7,380	39,993	--	19,399
Okanogan	118,336	6,169	27,155	621	--
<b>Total</b>	<b>241,573</b>	<b>13,549</b>	<b>67,148</b>	<b>621</b>	<b>19,399</b>
<b>Inland Empire</b>					
Asotin/Walla Walla[1]	72,351	1,481	25,913	--	--
Ferry/Pend Oreille/Spokane[1]	110,000	5,850	45,200	--	6,150
Stevens	179,958	11,975	19,789	592	4,192
<b>Total</b>	<b>362,309</b>	<b>19,306</b>	<b>90,902</b>	<b>592</b>	<b>10,342</b>
<b>TOTAL, STATEWIDE</b>	<b>2,668,137</b>	<b>361,877</b>	<b>542,059</b>	<b>2,991</b>	<b>81,436</b>

[1] Combined to avoid disclosure.



# SAWMILLS 1990

Table D-23 (Continued)

Ownership Origin of Logs Consumed by County  
(Thousand board feet, Scribner log rule)

Forest industry		Farmer and Miscellaneous Private
Own wood supply	Other wood supply	
4,873	22,371	21,231
48,635	14,342	325
5,855	48,413	86,950
1,470	34,711	7,027
5,500	85,669	32,557
66,333	205,506	148,090
8	3,250	820
53,950	31,550	4,200
47,600	21,360	13,490
14,000	85,354	40,062
79,100	40,901	20,893
--	6,250	15,040
194,658	188,665	94,505
20,689	18,670	9,531
85,689	213,638	51,777
106,378	232,308	61,308
34,119	14,955	7,391
58,751	12	25,628
92,870	14,967	33,019
30,995	1,430	12,532
5,850	2,100	44,850
65,187	13,600	64,623
102,032	17,130	122,005
562,271	658,576	458,927

# SAWMILLS 1990

Table D-24

## Number of Mills Dependent upon Ownerships

Economic area and mill-size class[1]	National Forest				State				Bureau of Land Management			
	0	1-3	34-66	67-100	0	1-3	34-66	67-100	0	1-3	34-66	67-100
<b>Puget Sound</b>												
D	9	--	--	--	7	2	--	--	9	--	--	--
C	3	1	--	3	3	4	--	--	7	--	--	--
B	3	2	--	1	2	3	1	--	5	1	--	--
A	2	7	1	2	1	8	2	1	12	--	--	--
Total	17	10	1	6	13	17	3	1	33	1	--	--
<b>Olympic Peninsula</b>												
D	10	2	2	--	5	5	2	2	14	--	--	--
C	--	2	1	1	1	3	--	--	4	--	--	--
B	1	4	--	--	--	4	--	1	5	--	--	--
A	5	2	3	2	4	8	--	--	12	--	--	--
Total	16	10	6	3	10	20	2	3	35	--	--	--
<b>Lower Columbia</b>												
D and C[2]	2	1	--	--	1	2	--	--	3	--	--	--
B	3	--	--	--	1	2	--	--	3	--	--	--
A	1	3	2	1	1	6	--	--	6	1	--	--
Total	6	4	2	1	3	10	--	--	12	1	--	--
<b>Central Washington</b>												
D and C[2]	--	1	2	1	2	1	1	--	4	--	--	--
B	--	--	--	--	--	--	--	--	--	--	--	--
A	--	3	1	--	2	2	--	--	3	1	--	--
Total	--	4	3	1	4	3	1	--	7	1	--	--
<b>Inland Empire</b>												
D	3	1	--	--	3	1	--	--	4	--	--	--
C and B[2]	3	2	--	1	2	4	--	--	4	2	--	--
A	--	4	1	1	2	4	--	--	6	--	--	--
Total	6	7	1	2	7	9	--	--	14	2	--	--
<b>Total State</b>												
D[3]	24	5	4	1	18	11	3	2	34	--	--	--
C[3][4]	6	5	1	5	6	11	--	--	15	2	--	--
B[4]	7	6	--	1	3	9	1	1	13	1	--	--
A	8	19	8	6	10	28	2	1	39	2	--	--
TOTAL, STATEWIDE	45	35	13	13	37	59	6	4	101	5	--	--

[1] Mill-size classes are defined as follows: Class D mills = less than 40,000 board feet of capacity per 8-hour shift; C = 40,000 - 79,999; B = 80,000 - 119,999; A = 120,000 +.

[2] Combined to avoid disclosure.

[3] Total for Class D includes Class C for Lower Columbia and Central Washington.

[4] Total for Class C includes Class B for Inland Empire.

# SAWMILLS 1990

Table D-24 (Continued)

Number of Mills Dependent upon Ownerships

Forest Industry															
Other Public				Own wood supply				Other wood supply				Farmer & miscellaneous private			
0	1-3	34-66	67-100	0	1-3	34-66	67-100	0	1-3	34-66	67-100	0	1-3	34-66	67-100
7	2	--	--	8	1	--	--	7	1	1	--	--	--	1	8
6	1	--	--	5	1	1	--	4	1	1	1	2	3	2	--
3	3	--	--	4	2	--	--	1	--	4	1	3	3	--	--
10	2	--	--	10	1	1	--	3	7	2	--	3	6	2	1
26	8	--	--	27	5	2	--	15	9	8	2	8	12	5	9
11	--	1	2	13	1	--	--	10	1	2	1	7	2	1	4
3	--	1	--	4	--	--	--	1	1	2	--	2	2	--	--
3	2	--	--	4	--	1	--	2	1	1	1	--	4	--	1
9	3	--	--	8	--	3	1	4	6	1	1	6	4	2	--
26	5	2	2	29	1	4	1	17	9	6	3	15	12	3	5
2	1	--	--	3	--	--	--	1	--	1	1	1	1	--	1
3	--	--	--	2	--	1	--	--	1	1	1	--	2	1	--
6	1	--	--	4	1	2	--	1	4	--	2	2	5	--	--
11	2	--	--	9	1	3	--	2	5	2	4	3	8	1	1
3	1	--	--	4	--	--	--	2	2	--	--	1	2	1	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3	1	--	--	1	1	1	1	2	1	1	--	--	3	1	--
6	2	--	--	5	1	1	1	4	3	1	--	1	5	2	--
4	--	--	--	3	--	--	1	4	--	--	--	1	--	--	3
3	3	--	--	3	--	3	--	6	--	--	--	--	3	1	2
3	3	--	--	1	3	2	--	2	3	1	--	--	4	2	--
10	6	--	--	7	3	5	1	12	3	1	--	1	7	3	5
27	4	1	2	31	2	--	1	24	4	4	2	10	5	3	16
12	4	1	--	12	1	4	--	11	2	3	1	4	8	3	2
9	5	--	--	10	2	2	--	3	2	6	3	3	9	1	1
31	10	--	--	24	6	9	2	12	21	5	3	11	22	7	1
79	23	2	2	77	11	15	3	50	29	18	9	28	44	14	20

# SAWMILLS 1990

Table D-25

Log Consumption by Species, by Mill-Size Class  
(Thousand board feet, Scribner log rule)

Economic area and mill-size class[1]	All species	Douglas fir	Hemlock	True firs	Spruce	Ponderosa pine	Lodgepole pine
<b>Puget Sound</b>							
D	12,845	3,633	786	48	3	--	--
C	53,743	22,725	8,798	3,173	--	--	--
B	170,805	6,652	30,526	2,560	242	242	--
A	548,203	304,195	175,481	26,537	3,240	--	--
Total	785,596	337,205	215,591	32,318	3,485	242	--
<b>Olympic Peninsula</b>							
D	13,000	2,119	558	3	1,002	--	--
C	56,000	13,200	16,000	2,800	--	--	--
B	133,000	2,500	45,000	--	2,500	--	--
A	527,221	280,441	225,934	5,846	--	--	--
Total	729,221	298,260	287,492	8,649	3,502	--	--
<b>Lower Columbia</b>							
D and C[2]	11,930	406	12	--	3	--	--
B	105,000	12,000	--	--	--	--	--
A	432,508	295,372	44,398	2,023	--	32,524	--
Total	549,438	307,778	44,410	2,023	3	32,524	--
<b>Central Washington</b>							
D and C[2]	12,798	5,959	3	--	1,472	15	3,514
B	--	--	--	--	--	--	--
A	228,775	42,746	2,744	24,678	2,065	150,896	4,202
Total	241,573	48,705	2,747	24,678	3,537	150,911	7,716
<b>Inland Empire</b>							
D	187	96	3	20	1	40	17
C and B[2]	134,969	23,022	4,685	13,416	8,400	75,828	800
A	227,153	101,969	33,725	11,260	13,156	31,439	19,094
Total	362,309	125,087	38,413	24,696	21,557	107,307	19,911
<b>Total, State</b>							
D[3]	50,760	12,213	1,362	71	2,481	55	3,531
C[3][4]	244,712	58,947	29,483	19,389	8,400	75,828	800
B[4]	408,805	21,152	75,526	2,560	2,742	242	--
A	1,963,860	1,024,723	482,282	70,344	18,461	214,859	23,296
Total	2,668,137	1,117,035	588,653	92,364	32,084	290,984	27,627

[1] Mill-size classes are defined as follows: Class D mills = less than 40,000 board feet of capacity per 8-hour shift; C = 40,000 - 79,999; B = 80,999 - 119,999; A = 120,000 +.

[2] Combined to avoid disclosure.

[3] Total for Class D includes Class C for Lower Columbia and Central Washington.

[4] Total for Class C includes Class B for Inland Empire.

# SAWMILLS 1990

Table D-25 (Continued)

Log Consumption by Species, by Mill-Size Class  
(Thousand board feet, Scribner log rule)

Western redcedar	Other softwoods	Hardwoods
5,143	--	3,232
19,047	--	--
26,583	--	104,000
38,750	--	--
<hr/>		
89,523	--	107,232
<hr/>		
5,195	14	4,109
--	--	24,000
32,000	--	51,000
15,000	--	--
<hr/>		
52,195	14	79,109
<hr/>		
11,509	--	--
--	--	93,000
53,000	5,191	--
<hr/>		
64,509	5,191	93,000
<hr/>		
--	1,835	--
--	--	--
--	1,444	--
<hr/>		
--	3,279	--
<hr/>		
5	1	4
8,318	500	--
7,489	9,021	--
<hr/>		
15,812	9,522	4
<hr/>		
21,852	1,850	7,345
27,365	500	24,000
58,583	--	248,000
114,239	15,656	--
<hr/>		
222,039	18,006	279,345

# SAWMILLS 1990

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
<b>Puget Sound</b>						
Island/Kitsap/San Juan/ and Whatcom[1]	83,094	78,831	998	1,268	--	--
King	97,100	40,088	49,856	7,055	3	--
Pierce	251,352	117,063	112,612	4,370	3,482	242
Skagit	74,122	22,083	1,162	--	--	--
Snohomish	279,928	79,140	50,963	19,625	--	--
<b>Total</b>	<b>785,596</b>	<b>337,205</b>	<b>215,591</b>	<b>32,318</b>	<b>3,485</b>	<b>242</b>
<b>Olympic Peninsula</b>						
Clallam	18,240	4,361	10,152	3	1,000	--
Grays Harbor	132,957	31,669	80,474	2,800	--	--
Jefferson/Pacific[1]	131,420	5,908	109,602	--	2,502	--
Lewis	273,944	110,525	75,441	5,846	--	--
Mason	147,520	120,697	11,823	--	--	--
Thurston	25,140	25,100	--	--	--	--
<b>Total</b>	<b>729,221</b>	<b>298,260</b>	<b>287,492</b>	<b>8,649</b>	<b>3,502</b>	<b>--</b>
<b>Lower Columbia</b>						
Clark/Klickitat/Skamania[1]	164,945	101,025	22,382	823	--	32,524
Cowlitz	384,493	206,753	22,028	1,200	3	--
<b>Total</b>	<b>549,438</b>	<b>307,778</b>	<b>44,410</b>	<b>2,023</b>	<b>3</b>	<b>32,524</b>
<b>Central Washington</b>						
Chelan/Kittitas/Yakima[1]	123,237	18,714	2,747	24,678	823	70,855
Okanogan	118,336	29,991	--	--	2,714	80,056
<b>Total</b>	<b>241,573</b>	<b>48,705</b>	<b>2,747</b>	<b>24,678</b>	<b>3,537</b>	<b>150,911</b>
<b>Inland Empire</b>						
Asotin/Walla Walla[1]	72,351	25,718	26,620	--	11,378	8,631
Ferry/Pend Oreille/Spokane[1]	110,000	45,490	4,590	9,240	3,250	33,730
Stevens	179,958	53,879	7,203	15,456	6,929	64,946
<b>Total</b>	<b>362,309</b>	<b>125,087</b>	<b>38,413</b>	<b>24,696</b>	<b>21,557</b>	<b>107,307</b>
<b>TOTAL, STATEWIDE</b>	<b>2,668,137</b>	<b>1,117,035</b>	<b>588,653</b>	<b>92,364</b>	<b>32,084</b>	<b>290,984</b>

[1] Combined to avoid disclosure.

# SAWMILLS 1990

Table D-26 (Continued)

Log Consumption by Species, by County  
(Thousand board feet, Scribner log rule)

Lodgepole pine	Western redcedar	Other softwoods	Hardwoods
--	1,997	--	--
--	91	--	7
--	13,583	--	--
--	1,877	--	49,000
--	71,975	--	58,225
<hr/>			
--	89,523	--	107,232
<hr/>			
--	2,724	--	--
--	15,000	14	3,000
--	2,407	--	11,001
--	17,024	--	65,108
--	15,000	--	--
--	40	--	--
<hr/>			
--	52,195	14	79,109
<hr/>			
--	3,000	5,191	--
--	61,509	--	93,000
<hr/>			
--	64,509	5,191	93,000
<hr/>			
4,597	--	823	--
3,119	--	2,456	--
<hr/>			
7,716	--	3,279	--
<hr/>			
--	--	--	4
5,450	6,500	1,750	--
14,461	9,312	7,772	--
<hr/>			
19,911	15,812	9,522	4
<hr/>			
27,627	222,039	18,006	279,345

# SAWMILLS 1990

Table D-27

Production and Disposition of Wood and Bark Residues by Mill-Size Class  
(Tons, Dry Weight)

Economic area and mill-size class[1]	All residue			Wood residue		
	Total	Used[2]	Unused	Total	Used[2]	Unused
<b>Puget Sound</b>						
D	18,442	18,442	--	13,968	13,968	--
C	88,257	79,898	8,359	67,455	62,669	4,786
B	282,613	282,613	--	215,272	215,272	--
A	1,034,989	1,020,949	14,040	802,806	788,766	14,040
<b>Total</b>	<b>1,424,301</b>	<b>1,401,902</b>	<b>22,399</b>	<b>1,099,501</b>	<b>1,080,675</b>	<b>18,826</b>
<b>Olympic Peninsula</b>						
D	21,517	21,517	--	16,288	16,288	--
C	78,893	78,893	--	59,298	59,298	--
B	171,979	171,979	--	129,449	129,449	--
A	1,145,766	1,123,845	21,921	899,966	881,442	18,524
<b>Total</b>	<b>1,418,155</b>	<b>1,396,234</b>	<b>21,921</b>	<b>1,105,001</b>	<b>1,086,477</b>	<b>18,524</b>
<b>Lower Columbia</b>						
D and C[3]	16,643	16,643	--	12,354	12,354	--
B	138,609	138,609	--	103,623	103,623	--
A	812,350	812,350	--	635,987	635,987	--
<b>Total</b>	<b>967,602</b>	<b>967,602</b>	<b>--</b>	<b>751,964</b>	<b>751,964</b>	<b>--</b>
<b>Central Washington</b>						
D and C[3]	22,798	12,740	10,058	17,939	11,801	6,138
B	--	--	--	--	--	--
A	369,958	344,937	25,021	291,295	271,305	19,990
<b>Total</b>	<b>392,756</b>	<b>357,677</b>	<b>35,079</b>	<b>309,234</b>	<b>283,106</b>	<b>26,128</b>
<b>Inland Empire</b>						
D	231	193	38	177	139	38
C and B[3]	203,719	203,719	--	158,423	158,423	--
A	417,092	417,092	--	325,937	325,937	--
<b>Total</b>	<b>621,042</b>	<b>621,004</b>	<b>38</b>	<b>484,537</b>	<b>484,499</b>	<b>38</b>
<b>Total, State</b>						
D[4]	79,631	69,535	10,096	60,726	54,550	6,176
C[4][5]	370,869	362,510	8,359	285,176	280,390	4,786
B[5]	593,201	593,201	--	448,344	448,344	--
A	3,780,155	3,719,173	60,982	2,955,991	2,903,437	52,554
<b>TOTAL, STATEWIDE</b>	<b>4,823,856</b>	<b>4,744,419</b>	<b>79,437</b>	<b>3,750,237</b>	<b>3,686,721</b>	<b>63,516</b>

[1] Mill-size classes are defined 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 = 20,000 +.

[2] Used residues were not necessarily consumed in the economic area in which they were produced.

[3] Combined to avoid disclosure.

[4] Total for Class D includes Class C for Lower Columbia and Central Washington.

[5] Total for Class C includes Class B for Inland Empire.



# SAWMILLS 1990

Table D-27 (Continued)

Production and Disposition of Wood and Bark Residues by Mill-Size Class  
(Tons, Dry Weight)

Bark residue		
Total	Used[2]	Unused
4,474	4,474	--
20,802	17,229	3,573
67,341	67,341	--
232,183	232,183	--
324,800	321,227	3,573
5,229	5,229	--
19,595	19,595	--
42,530	42,530	--
245,800	242,403	3,397
313,154	309,757	3,397
4,289	4,289	--
34,986	34,986	--
176,363	176,363	--
215,638	215,638	--
4,859	939	3,920
--	--	--
78,663	73,632	5,031
83,522	74,571	8,951
54	54	--
45,296	45,296	--
91,155	91,155	--
136,505	136,505	--
18,905	14,985	3,920
85,693	82,120	3,573
144,857	144,857	--
824,164	815,736	8,428
1,073,619	1,057,698	15,921

# SAWMILLS 1990

Table D-28

Production and Disposition of Wood Residues by Mill-Size Class  
(Tons, Dry Weight)

Economic area and mill-size class(1)	All types						
	Total	Total used(3)	Pulp	Board	Fuel	Other	Unused
<b>Puget Sound</b>							
D	13,968	13,968	6,410	--	4,822	2,736	--
C	67,455	62,669	16,614	--	22,099	23,956	4,786
B	215,272	215,272	68,492	--	43,091	103,689	--
A	802,806	788,766	403,764	--	208,660	176,342	14,040
<b>Total</b>	<b>1,099,501</b>	<b>1,080,675</b>	<b>495,280</b>	<b>--</b>	<b>278,672</b>	<b>306,723</b>	<b>18,826</b>
<b>Olympic Peninsula</b>							
D	16,288	16,288	4,081	--	9,327	2,880	--
C	59,298	59,298	33,727	--	23,253	2,318	--
B	129,449	129,449	38,998	--	61,243	29,208	--
A	899,966	881,442	489,302	57,780	240,681	93,679	18,524
<b>Total</b>	<b>1,105,001</b>	<b>1,086,477</b>	<b>566,108</b>	<b>57,780</b>	<b>334,504</b>	<b>128,085</b>	<b>18,524</b>
<b>Lower Columbia</b>							
D and C[4]	12,354	12,354	316	--	12,017	21	--
B	103,623	103,623	28,260	--	72,059	3,304	--
A	635,987	635,987	331,353	34,879	257,152	12,603	--
<b>Total</b>	<b>751,964</b>	<b>751,964</b>	<b>359,929</b>	<b>34,879</b>	<b>341,228</b>	<b>15,928</b>	<b>--</b>
<b>Central Washington</b>							
D and C[4]	17,939	11,801	8,716	--	2,233	852	6,138
B	--	--	--	--	--	--	--
A	291,295	271,305	24,710	30,828	146,435	69,332	19,990
<b>Total</b>	<b>309,234</b>	<b>283,106</b>	<b>33,426</b>	<b>30,828</b>	<b>148,668</b>	<b>70,184</b>	<b>26,128</b>
<b>Inland Empire</b>							
D	177	139	--	--	57	82	38
C and B[4]	158,423	158,423	101,062	5,131	40,003	12,227	--
A	325,937	325,937	141,666	20,800	161,175	2,296	--
<b>Total</b>	<b>484,537</b>	<b>484,499</b>	<b>242,728</b>	<b>25,931</b>	<b>201,235</b>	<b>14,605</b>	<b>38</b>
<b>Total, State</b>							
D[5]	60,726	54,550	19,523	--	28,456	6,571	6,176
C[5][6]	285,176	280,390	151,403	5,131	85,355	38,501	4,786
B[6]	448,344	448,344	135,750	--	176,393	136,201	--
A	2,955,991	2,903,437	1,390,795	144,287	1,014,103	354,252	52,554
<b>TOTAL, STATEWIDE</b>	<b>3,750,237</b>	<b>3,686,721</b>	<b>1,697,471</b>	<b>149,418</b>	<b>1,304,307</b>	<b>535,525</b>	<b>63,516</b>

[1] Mill-size classes are defined 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 = 20,000 +.

[2] Slabs, edgings, trim and spur ends.

[3] Used residues were not necessarily consumed in the economic area in which they were produced.

[4] Combined to avoid disclosure.

[5] Total for Class D includes Class C for Lower Columbia and Central Washington.

[6] Total for Class C includes Class B for Inland Empire.

# SAWMILLS 1990

Table D-28 (Continued)

Production and Disposition of Wood Residues by Mill-Size Class  
(Tons, Dry Weight)

Coarse [2]						
Total	Total used[3]	Pulp	Board	Fuel	Other	Unused
8,836	8,836	6,410	--	2,216	210	--
42,493	42,493	14,022	--	14,756	13,715	--
127,633	127,633	68,492	--	11,067	48,074	--
474,267	474,267	295,899	--	116,255	62,113	--
653,229	653,229	384,823	--	144,294	124,112	--
10,249	10,249	2,160	--	6,651	1,438	--
37,306	37,306	20,026	--	17,280	--	--
81,865	81,865	38,998	--	21,387	21,480	--
502,081	498,525	394,575	--	88,536	15,414	3,556
631,501	627,945	455,759	--	133,854	38,332	3,556
8,763	8,763	316	--	8,432	15	--
62,959	62,959	17,280	--	45,679	--	--
361,619	361,619	223,526	--	138,093	--	--
433,341	433,341	241,122	--	192,204	15	--
9,928	9,928	8,026	--	1,902	--	--
--	--	--	--	--	--	--
160,681	150,405	14,084	--	86,620	49,701	10,276
170,609	160,333	22,110	--	88,522	49,701	10,276
110	110	--	--	57	53	--
92,527	92,527	84,227	--	5,270	3,030	--
186,201	186,201	125,251	--	60,950	--	--
278,838	278,838	209,478	--	66,277	3,083	--
37,886	37,886	16,912	--	19,258	1,716	--
172,326	172,326	118,275	--	37,306	16,745	--
272,457	272,457	124,770	--	78,133	69,554	--
1,684,849	1,671,017	1,053,335	--	490,454	127,228	13,832
2,167,518	2,153,686	1,313,292	--	625,151	215,243	13,832

# SAWMILLS 1990

## Table D-28 (Continued)

### Production and Disposition of Wood Residues by Mill-Size Class (Tons, Dry Weight)

Economic area and mill-size class[1]	Medium[2]						
	Total	Total used[4]	Pulp	Board	Fuel	Other	Unused
<b>Puget Sound</b>							
D	1,563	1,563	--	--	518	1,045	--
C	7,547	5,752	--	--	755	4,997	1,795
B	36,999	36,999	--	--	8,998	28,001	--
A	134,153	134,153	55,485	--	37,390	41,278	--
<b>Total</b>	<b>180,262</b>	<b>178,467</b>	<b>55,485</b>	<b>--</b>	<b>47,661</b>	<b>75,321</b>	<b>1,795</b>
<b>Olympic Peninsula</b>							
D	1,915	1,915	--	--	1,655	260	--
C	7,161	7,161	2,916	--	4,245	--	--
B	14,875	14,875	--	--	14,875	--	--
A	192,100	192,100	13,517	57,780	84,314	36,489	--
<b>Total</b>	<b>216,051</b>	<b>216,051</b>	<b>16,433</b>	<b>57,780</b>	<b>105,089</b>	<b>36,749</b>	<b>--</b>
<b>Lower Columbia</b>							
D and C[5]	--	--	--	--	--	--	--
B	16,292	16,292	3,168	--	9,820	3,304	--
A	126,153	126,153	37,800	34,879	52,351	1,123	--
<b>Total</b>	<b>142,445</b>	<b>142,445</b>	<b>40,968</b>	<b>34,879</b>	<b>62,171</b>	<b>4,427</b>	<b>--</b>
<b>Central Washington</b>							
D and C[5]	3,943	759	683	--	1	75	3,184
B	--	--	--	--	--	--	--
A	64,756	59,254	--	30,828	8,795	19,631	5,502
<b>Total</b>	<b>68,699</b>	<b>60,013</b>	<b>683</b>	<b>30,828</b>	<b>8,796</b>	<b>19,706</b>	<b>8,686</b>
<b>Inland Empire</b>							
D	24	9	--	--	--	9	15
C and B[5]	27,973	27,973	9,504	5,131	4,141	9,197	--
A	63,422	63,422	7,229	16,912	38,626	655	--
<b>Total</b>	<b>91,419</b>	<b>91,404</b>	<b>16,733</b>	<b>22,043</b>	<b>42,767</b>	<b>9,861</b>	<b>15</b>
<b>Total, State</b>							
D[6]	7,445	4,246	683	--	2,174	1,389	3,199
C[6][7]	42,681	40,886	12,420	5,131	9,141	14,194	1,795
B[7]	68,166	68,166	3,168	--	33,693	31,305	--
A	580,584	575,082	114,031	140,399	221,476	99,176	5,502
<b>TOTAL, STATEWIDE</b>	<b>698,876</b>	<b>688,380</b>	<b>130,302</b>	<b>145,530</b>	<b>266,484</b>	<b>146,064</b>	<b>10,496</b>

[1] Mill-size classes are defined 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 = 20,000 +.

[2] Shavings.

[3] Sawdust.

[4] Used residues were not necessarily consumed in the economic area in which they were produced.

[5] Combined to avoid disclosure.

[6] Total for Class D includes Class C for Lower Columbia and Central Washington.

[7] Total for Class C includes Class B for Inland Empire.

# SAWMILLS 1990

Table D-28 (Continued)

Production and Disposition of Wood Residues by Mill-Size Class  
(Tons, Dry Weight)

Total	Total used[4]	Fine[3]				Unused
		Pulp	Board	Fuel	Other	
3,569	3,569	--	--	2,088	1,481	--
17,415	14,424	2,592	--	6,588	5,244	2,991
50,640	50,640	--	--	23,026	27,614	--
194,386	180,346	52,380	--	55,015	72,951	14,040
266,010	248,979	54,972	--	86,717	107,290	17,031
4,124	4,124	1,921	--	1,021	1,182	--
14,831	14,831	10,785	--	1,728	2,318	--
32,709	32,709	--	--	24,981	7,728	--
205,785	190,817	81,210	--	67,831	41,776	14,968
257,449	242,481	93,916	--	95,561	53,004	14,968
3,591	3,591	--	--	3,585	6	--
24,372	24,372	7,812	--	16,560	--	--
148,215	148,215	70,027	--	66,708	11,480	--
176,178	176,178	77,839	--	86,853	11,486	--
4,068	1,114	7	--	330	777	2,954
--	--	--	--	--	--	--
65,858	61,646	10,626	--	51,020	--	4,212
69,926	62,760	10,633	--	51,350	777	7,166
43	20	--	--	--	20	23
37,923	37,923	7,331	--	30,592	--	--
76,314	76,314	9,186	3,888	61,599	1,641	--
114,280	114,257	16,517	3,888	92,191	1,661	23
15,395	12,418	1,928	--	7,024	3,466	2,977
70,169	67,178	20,708	--	38,908	7,562	2,991
107,721	107,721	7,812	--	64,567	35,342	--
690,558	657,338	223,429	3,888	302,173	127,848	33,220
883,843	844,655	253,877	3,888	412,672	174,218	39,188

# SAWMILLS 1990

Table D-29

## Production and Disposition of Bark Residues by Mill-Size Class (Tons, Dry Weight)

Economic area and mill-size class[1]	Bark						
	Total	Total used[2]	Pulp	Board	Fuel	Other	Unused
<b>Puget Sound</b>							
D	4,474	4,474	--	--	2,704	1,770	--
C	20,802	17,229	--	--	8,772	8,457	3,573
B	67,341	67,341	--	--	36,185	31,156	--
A	232,183	232,183	--	--	95,743	136,440	--
<b>Total</b>	<b>324,800</b>	<b>321,227</b>	<b>--</b>	<b>--</b>	<b>143,404</b>	<b>177,823</b>	<b>3,573</b>
<b>Olympic Peninsula</b>							
D	5,229	5,229	--	--	4,439	790	--
C	19,595	19,595	--	--	17,637	1,958	--
B	42,530	42,530	--	--	25,688	16,842	--
A	245,800	242,403	--	--	155,114	87,289	3,397
<b>Total</b>	<b>313,154</b>	<b>309,757</b>	<b>--</b>	<b>--</b>	<b>202,878</b>	<b>106,879</b>	<b>3,397</b>
<b>Lower Columbia</b>							
D and C[3]	4,289	4,289	154	--	4,128	7	--
B	34,986	34,986	--	--	34,986	--	--
A	176,363	176,363	--	--	153,143	23,220	--
<b>Total</b>	<b>215,638</b>	<b>215,638</b>	<b>154</b>	<b>--</b>	<b>192,257</b>	<b>23,227</b>	<b>--</b>
<b>Central Washington</b>							
D and C[3]	4,859	939	9	--	2	928	3,920
B	--	--	--	--	--	--	--
A	78,663	73,632	--	--	62,862	10,770	5,031
<b>Total</b>	<b>83,522</b>	<b>74,571</b>	<b>9</b>	<b>--</b>	<b>62,864</b>	<b>11,698</b>	<b>8,951</b>
<b>Inland Empire</b>							
D	54	54	--	--	28	26	--
C and B[3]	45,296	45,296	--	--	40,837	4,459	--
A	91,155	91,155	--	--	90,665	490	--
<b>Total</b>	<b>136,505</b>	<b>136,505</b>	<b>--</b>	<b>--</b>	<b>131,530</b>	<b>4,975</b>	<b>--</b>
<b>Total, State</b>							
D[4]	18,905	14,985	163	--	11,301	3,521	3,920
C[4] [5]	85,693	82,120	--	--	67,246	14,874	3,573
B[5]	144,857	144,857	--	--	96,859	47,998	--
A	824,164	815,736	--	--	557,527	258,209	8,428
<b>TOTAL, STATEWIDE</b>	<b>1,073,619</b>	<b>1,057,698</b>	<b>163</b>	<b>--</b>	<b>732,933</b>	<b>324,602</b>	<b>15,921</b>

[1] Mill-size classes are defined 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 = 20,000 +.

[2] Used residues were not necessarily consumed in the economic area in which they were produced.

[3] Combined to avoid disclosure.

[4] Total for Class D includes Class C for Lower Columbia and Central Washington.

[5] Total for Class C includes Class B for Inland Empire.



# SAWMILLS 1990

Table D-30

Production and Disposition of Wood and Bark Residues by County  
(Tons, Dry Weight)

Economic area and county	All residue			Wood residue		
	Total	Used[1]	Unused	Total	Used[1]	Unused
<b>Puget Sound</b>						
Island/Kitsap/San Juan/ and Whatcom[2]	186,828	172,788	14,040	146,921	132,881	14,040
King	169,217	169,217	--	126,766	126,766	--
Pierce	457,876	457,876	--	355,579	355,579	--
Skagit	122,809	122,809	--	93,988	93,988	--
Snohomish	487,571	479,212	8,359	376,247	371,461	4,786
<b>Total</b>	<b>1,424,301</b>	<b>1,401,902</b>	<b>22,399</b>	<b>1,099,501</b>	<b>1,080,675</b>	<b>18,826</b>
<b>Olympic Peninsula</b>						
Clallam	24,954	24,954	--	18,753	18,753	--
Grays Harbor	276,063	276,063	--	215,067	215,067	--
Jefferson/Pacific[2]	178,690	163,722	14,968	139,907	124,939	14,968
Lewis	548,928	545,531	3,397	425,679	425,679	--
Mason	336,004	336,004	--	263,742	263,742	--
Thurston	53,516	49,960	3,556	41,853	38,297	3,556
<b>Total</b>	<b>1,418,155</b>	<b>1,396,234</b>	<b>21,921</b>	<b>1,105,001</b>	<b>1,086,477</b>	<b>18,524</b>
<b>Lower Columbia</b>						
Clark/Klickitat/Skamania[2]	317,805	317,805	--	249,812	249,812	--
Cowlitz	649,797	649,797	--	502,152	502,152	--
<b>Total</b>	<b>967,602</b>	<b>967,602</b>	<b>--</b>	<b>751,964</b>	<b>751,964</b>	<b>--</b>
<b>Central Washington</b>						
Chelan/Kittitas/Yakima[2]	195,564	195,564	--	153,965	153,965	--
Okanogan	197,192	162,113	35,079	155,269	129,141	26,128
<b>Total</b>	<b>392,756</b>	<b>357,677</b>	<b>35,079</b>	<b>309,234</b>	<b>283,106</b>	<b>26,128</b>
<b>Inland Empire</b>						
Asotin/Walla Walla[2]	147,049	147,049	--	115,674	115,674	--
Ferry/Pend Oreille/Spokane[2]	178,496	178,496	--	138,895	138,895	--
Stevens	295,497	295,459	38	229,968	229,930	38
<b>Total</b>	<b>621,042</b>	<b>621,004</b>	<b>38</b>	<b>484,537</b>	<b>484,499</b>	<b>38</b>
<b>TOTAL, STATEWIDE</b>	<b>4,823,856</b>	<b>4,744,419</b>	<b>79,437</b>	<b>3,750,237</b>	<b>3,686,721</b>	<b>63,516</b>

[1] Used residues were not necessarily consumed in the economic area in which they were produced.

[2] Combined to avoid disclosure.



# SAWMILLS 1990

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

Bark residue		
Total	Used[1]	Unuse
39,907	39,907	--
42,451	42,451	--
102,297	102,297	--
28,821	28,821	--
111,324	107,751	3,573
324,800	321,227	3,573
6,201	6,201	--
60,996	60,996	--
38,783	38,783	--
123,249	119,852	3,397
72,262	72,262	--
11,663	11,663	--
313,154	309,757	3,397
67,993	67,993	--
147,645	147,645	--
215,638	215,638	--
41,599	41,599	--
41,923	32,972	8,951
83,522	74,571	8,951
31,375	31,375	--
39,601	39,601	--
65,529	65,529	--
136,505	136,505	--
1,073,619	1,057,698	15,921

# SAWMILLS 1990

Table D-31

Production and Disposition of Wood Residues by County  
(Tons, Dry Weight)

Economic area and county	All types						
	Total	Total used[4]	Pulp	Board	Fuel	Other	Unused
<b>Puget Sound</b>							
Island/Kitsap/San Juan/ and Whatcom[2]	146,921	132,881	110,882	--	--	21,999	14,040
King	126,766	126,766	13,744	--	72,967	40,055	--
Pierce	355,579	355,579	174,166	--	48,591	132,822	--
Skagit	93,988	93,988	31,449	--	24,084	38,455	--
Snohomish	376,247	371,461	165,039	--	133,030	73,392	4,786
<b>Total</b>	<b>1,099,501</b>	<b>1,080,675</b>	<b>495,280</b>	<b>--</b>	<b>278,672</b>	<b>306,723</b>	<b>18,826</b>
<b>Olympic Peninsula</b>							
Clallam	18,753	18,753	14,190	--	3,021	1,542	--
Grays Harbor	215,067	215,067	44,146	--	108,065	62,856	--
Jefferson/Pacific[2]	139,907	124,939	70,073	--	53,523	1,343	14,968
Lewis	425,679	425,679	293,060	57,780	43,175	31,664	--
Mason	263,742	263,742	142,695	--	121,047	--	--
Thurston	41,853	38,297	1,944	--	5,673	30,680	3,556
<b>Total</b>	<b>1,105,001</b>	<b>1,086,477</b>	<b>566,108</b>	<b>57,780</b>	<b>334,504</b>	<b>128,085</b>	<b>18,524</b>
<b>Lower Columbia</b>							
Clark/Klickitat/Skamania[2]	249,812	249,812	167,200	34,879	31,826	15,907	--
Cowlitz	502,152	502,152	192,729	--	309,402	21	--
<b>Total</b>	<b>751,964</b>	<b>751,964</b>	<b>359,929</b>	<b>34,879</b>	<b>341,228</b>	<b>15,928</b>	<b>--</b>
<b>Central Washington</b>							
Chelan/Kittitas/Yakima[2]	153,965	153,965	21,178	30,828	92,175	9,784	--
Okanogan	155,269	129,141	12,248	--	56,493	60,400	26,128
<b>Total</b>	<b>309,234</b>	<b>283,106</b>	<b>33,426</b>	<b>30,828</b>	<b>148,668</b>	<b>70,184</b>	<b>26,128</b>
<b>Inland Empire</b>							
Asotin/Walla Walla[2]	115,674	115,674	71,418	5,131	37,657	1,468	--
Ferry/Pend Oreille/Spokane[2]	138,895	138,895	73,809	13,413	45,900	5,773	--
Stevens	229,968	229,930	97,501	7,387	117,678	7,364	38
<b>Total</b>	<b>484,537</b>	<b>484,499</b>	<b>242,728</b>	<b>25,931</b>	<b>201,235</b>	<b>14,605</b>	<b>38</b>
<b>TOTAL, STATEWIDE</b>	<b>3,750,237</b>	<b>3,686,721</b>	<b>1,697,471</b>	<b>149,418</b>	<b>1,304,307</b>	<b>535,525</b>	<b>63,516</b>

[1] Coarse residues includes slabs, edgings, sawmill trim, and planer trim.

[2] Medium residue is planer shavings.

[3] Fine residue is sawdust.

[4] Used residues were not necessarily consumed in the economic area in which they were produced.

[5] Combined to avoid disclosure.

# SAWMILLS 1990

Table D-31 (Continued)

Production and Disposition of Wood Residues by County  
(Tons, Dry Weight)

Coarse[1]						
Total	Total used[4]	Pulp	Board	Fuel	Other	Unused
81,516	81,516	70,700	--	--	10,816	--
86,711	86,711	13,744	--	72,967	--	--
208,959	208,959	151,270	--	--	57,689	--
54,148	54,148	31,449	--	4,571	18,128	--
221,895	221,895	117,660	--	66,756	37,479	--
653,229	653,229	384,823	--	144,294	124,112	--
12,670	12,670	10,065	--	1,920	685	--
124,263	124,263	38,360	--	85,903	--	--
78,180	78,180	69,037	--	7,808	1,335	--
244,960	244,960	201,758	--	22,382	20,820	--
147,606	147,606	136,539	--	11,067	--	--
23,822	20,266	--	--	4,774	15,492	3,556
631,501	627,945	455,759	--	133,854	38,332	3,556
140,260	140,260	131,301	--	8,959	--	--
293,081	293,081	109,821	--	183,245	15	--
433,341	433,341	241,122	--	192,204	15	--
84,973	84,973	14,084	--	64,538	6,351	--
85,636	75,360	8,026	--	23,984	43,350	10,276
170,609	160,333	22,110	--	88,522	49,701	10,276
64,089	64,089	64,087	--	--	2	--
80,893	80,893	57,838	--	20,025	3,030	--
133,856	133,856	87,553	--	46,252	51	--
278,838	278,838	209,478	--	66,277	3,083	--
2,167,518	2,153,686	1,313,292	--	625,151	215,243	13,832

# SAWMILLS 1990

Table D-31 (Continued)

## Production and Disposition of Wood Residues by County (Tons, Dry Weight)

Economic area and county	Medium[2]						
	Total	Total used[4]	Pulp	Board	Fuel	Other	Unused
<b>Puget Sound</b>							
Island/Kitsap/San Juan/ and Whatcom[2]	31,995	31,995	26,142	--	--	5,853	--
King	4,515	4,515	--	--	--	4,515	--
Pierce	60,976	60,976	--	--	22,377	38,599	--
Skagit	18,443	18,443	--	--	3,688	14,755	--
Snohomish	64,333	62,538	29,343	--	21,596	11,599	1,795
<b>Total</b>	<b>180,262</b>	<b>178,467</b>	<b>55,485</b>	<b>--</b>	<b>47,661</b>	<b>75,321</b>	<b>1,795</b>
<b>Olympic Peninsula</b>							
Clallam	892	892	--	--	885	7	--
Grays Harbor	39,929	39,929	--	--	11,421	28,508	--
Jefferson/Pacific[2]	29,861	29,861	--	--	29,859	2	--
Lewis	81,464	81,464	13,517	57,780	9,789	378	--
Mason	55,638	55,638	2,916	--	52,722	--	--
Thurston	8,267	8,267	--	--	413	7,854	--
<b>Total</b>	<b>216,051</b>	<b>216,051</b>	<b>16,433</b>	<b>57,780</b>	<b>105,089</b>	<b>36,749</b>	<b>--</b>
<b>Lower Columbia</b>							
Clark/Klickitat/Skamania[2]	52,065	52,065	--	34,879	12,759	4,427	--
Cowlitz	90,380	90,380	40,968	--	49,412	--	--
<b>Total</b>	<b>142,445</b>	<b>142,445</b>	<b>40,968</b>	<b>34,879</b>	<b>62,171</b>	<b>4,427</b>	<b>--</b>
<b>Central Washington</b>							
Chelan/Kittitas/Yakima[2]	34,164	34,164	680	30,828	--	2,656	--
Okanogan	34,535	25,849	3	--	8,796	17,050	8,686
<b>Total</b>	<b>68,699</b>	<b>60,013</b>	<b>683</b>	<b>30,828</b>	<b>8,796</b>	<b>19,706</b>	<b>8,686</b>
<b>Inland Empire</b>							
Asotin/Walla Walla[2]	25,319	25,319	--	5,131	18,722	1,466	--
Ferry/Pend Oreille/Spokane[2]	24,848	24,848	10,139	9,525	4,082	1,102	--
Stevens	41,252	41,237	6,594	7,387	19,963	7,293	15
<b>Total</b>	<b>91,419</b>	<b>91,404</b>	<b>16,733</b>	<b>22,043</b>	<b>42,767</b>	<b>9,861</b>	<b>15</b>
<b>TOTAL, STATEWIDE</b>	<b>698,876</b>	<b>688,380</b>	<b>130,302</b>	<b>145,530</b>	<b>266,484</b>	<b>146,064</b>	<b>10,496</b>

[2] Medium residue is planer shavings.

[3] Fine residue is sawdust.

[4] Used residues were not necessarily consumed in the economic area in which they were produced.

[5] Combined to avoid disclosure.

# SAWMILLS 1990

Table D-31 (Continued)

Production and Disposition of Wood Residues by County  
(Tons, Dry Weight)

Fine[3]						
Total	Total used[4]	Pulp	Board	Fuel	Other	Unused
33,410	19,370	14,040	--	--	5,330	14,040
35,540	35,540	--	--	--	35,540	--
85,644	85,644	22,896	--	26,214	36,534	--
21,397	21,397	--	--	15,825	5,572	--
90,019	87,028	18,036	--	44,678	24,314	2,991
266,010	248,979	54,972	--	86,717	107,290	17,031
5,191	5,191	4,125	--	216	850	--
50,875	50,875	5,786	--	10,741	34,348	--
31,866	16,898	1,036	--	15,856	6	14,968
99,255	99,255	77,785	--	11,004	10,466	--
60,498	60,498	3,240	--	57,258	--	--
9,764	9,764	1,944	--	486	7,334	--
257,449	242,481	93,916	--	95,561	53,004	14,968
57,487	57,487	35,899	--	10,108	11,480	--
118,691	118,691	41,940	--	76,745	6	--
176,178	176,178	77,839	--	86,853	11,486	--
34,828	34,828	6,414	--	27,637	777	--
35,098	27,932	4,219	--	23,713	--	7,166
69,926	62,760	10,633	--	51,350	777	7,166
26,266	26,266	7,331	--	18,935	--	--
33,154	33,154	5,832	3,888	21,793	1,641	--
54,860	54,837	3,354	--	51,463	20	23
114,280	114,257	16,517	3,888	92,191	1,661	23
883,843	844,655	253,877	3,888	412,672	174,218	39,188

# SAWMILLS 1990

Table D-32

## Production and Disposition of Bark Residues by County (Tons, Dry Weight)

Economic area and county	Used[1]						Unused
	Total	Total used	Pulp	Board	Fuel	Other	
<b>Puget Sound</b>							
Island/Kitsap/San Juan/ and Whatcom[2]	39,907	39,907	--	--	--	39,907	--
King	42,451	42,451	--	--	--	42,451	--
Pierce	102,297	102,297	--	--	67,431	34,866	--
Skagit	28,821	28,821	--	--	19,946	8,875	--
Snohomish	111,324	107,751	--	--	56,027	51,724	3,573
<b>Total</b>	<b>324,800</b>	<b>321,227</b>	<b>--</b>	<b>--</b>	<b>143,404</b>	<b>177,823</b>	<b>3,573</b>
<b>Olympic Peninsula</b>							
Clallam	6,201	6,201	--	--	5,866	335	--
Grays Harbor	60,996	60,996	--	--	19,969	41,027	--
Jefferson/Pacific[2]	38,783	38,783	--	--	38,776	7	--
Lewis	123,249	119,852	--	--	106,065	13,787	3,397
Mason	72,262	72,262	--	--	27,543	44,719	--
Thurston	11,663	11,663	--	--	4,659	7,004	--
<b>Total</b>	<b>313,154</b>	<b>309,757</b>	<b>--</b>	<b>--</b>	<b>202,878</b>	<b>106,879</b>	<b>3,397</b>
<b>Lower Columbia</b>							
Clark/Klickitat/Skamania[2]	67,993	67,993	--	--	62,833	5,160	--
Cowlitz	147,645	147,645	154	--	129,424	18,067	--
<b>Total</b>	<b>215,638</b>	<b>215,638</b>	<b>154</b>	<b>--</b>	<b>192,257</b>	<b>23,227</b>	<b>--</b>
<b>Central Washington</b>							
Chelan/Kittitas/Yakima[2]	41,599	41,599	--	--	29,901	11,698	--
Okanogan	41,923	32,972	9	--	32,963	--	8,951
<b>Total</b>	<b>83,522</b>	<b>74,571</b>	<b>9</b>	<b>--</b>	<b>62,864</b>	<b>11,698</b>	<b>8,951</b>
<b>Inland Empire</b>							
Asotin/Walla Walla[2]	31,375	31,375	--	--	29,185	2,190	--
Ferry/Pend Oreille/Spokane[2]	39,601	39,601	--	--	36,841	2,760	--
Stevens	65,529	65,529	--	--	65,504	25	--
<b>Total</b>	<b>136,505</b>	<b>136,505</b>	<b>--</b>	<b>--</b>	<b>131,530</b>	<b>4,975</b>	<b>--</b>
<b>TOTAL, STATEWIDE</b>	<b>1,073,619</b>	<b>1,057,698</b>	<b>163</b>	<b>--</b>	<b>732,933</b>	<b>324,602</b>	<b>15,921</b>

[1] Used residues were not necessarily consumed in the economic area in which they were produced.

[2] Combined to avoid disclosure.

# SAWMILLS 1990

Table D-33

## Degree of Lumber Manufacture (Thousand board feet, Lumber tally)

Economic area and mill-size class[1]	Moisture			Total	Lumber surface	
	Green	Kiln-dried	Air-dried		Rough	Surfaced
<b>Puget Sound</b>						
D	13,971	2,354	--	16,325	9,124	7,201
C	64,628	16,007	--	80,635	45,682	34,953
B	99,884	127,762	--	227,646	57,771	169,875
A	599,874	162,070	138,000	899,944	278,835	621,109
Total	778,357	308,193	138,000	1,224,550	391,412	833,138
<b>Olympic Peninsula</b>						
D	14,196	4,600	26	18,822	10,028	8,794
C	41,504	25,296	--	66,800	34,004	32,796
B	67,200	80,800	--	148,000	79,800	68,200
A	555,622	397,104	--	952,726	63,352	889,374
Total	678,522	507,800	26	1,186,348	187,184	999,164
<b>Lower Columbia</b>						
D and C[2]	16,630	--	--	16,630	16,630	--
B	47,960	59,040	--	107,000	32,660	74,340
A	388,450	297,738	--	686,188	102,134	584,054
Total	453,040	356,778	--	809,818	151,424	658,394
<b>Central Washington</b>						
D and C[2]	12,365	351	6,128	18,844	578	18,266
B	--	--	--	--	--	--
A	19,944	284,964	--	304,908	5,091	299,817
Total	32,309	285,315	6,128	323,752	5,669	318,083
<b>Inland Empire</b>						
D	63	--	149	212	95	117
C and B[2]	56,611	113,272	5,694	175,577	46,061	129,516
A	39,154	308,289	5,883	353,326	59,683	293,643
Total	95,828	421,561	11,726	529,115	105,839	423,276
<b>Total, State</b>						
D[3]	57,225	7,305	6,303	70,833	36,455	34,378
C[3][4]	162,743	154,575	5,694	323,012	125,747	197,265
B[4]	215,044	267,602	--	482,646	170,231	312,415
A	1,603,044	1,450,165	143,883	3,197,092	509,095	2,687,997
TOTAL, STATEWIDE	2,038,056	1,879,647	155,880	4,073,583	841,528	3,232,055

[1] Mill-size classes are defined as follows: Class D mills = less than 40,000 board feet capacity per 8-hour shift; C = 40,000 - 79,999; B = 80,000 - 119,000; A = 120,000+.

[2] Combined to avoid disclosure.

[3] Total for Class D includes Class C for Lower Columbia and Central Washington.

[4] Total for Class C includes Class B for Inland Empire.

# SAWMILLS 1990

Table D-34

## Lumber Production by Headrig Type, by Mill-Size Class

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	16,325	13,100	3,225	--	--	--
C	80,635	12,269	59,234	--	5,932	3,200
B	227,646	14,302	172,702	--	26,340	14,302
A	899,944	--	646,863	34,000	185,081	34,000
Total	1,224,550	39,671	882,024	34,000	217,353	51,502
<b>Olympic Peninsula</b>						
D	18,822	14,872	3,950	--	--	--
C	66,800	--	66,800	--	--	--
B	148,000	53,000	82,400	--	12,600	--
A	952,726	105,000	679,769	--	124,500	43,457
Total	1,186,348	172,872	832,919	--	137,100	43,457
<b>Lower Columbia</b>						
D and C [2]	16,630	4,630	--	--	--	12,000
B	107,000	--	69,200	21,600	16,200	--
A	686,188	--	611,373	--	74,815	--
Total	809,818	4,630	680,573	21,600	91,015	12,000
<b>Central Washington</b>						
D and C [2]	18,844	100	15,196	--	3,548	--
B	--	--	--	--	--	--
A	304,908	--	304,908	--	--	--
Total	323,752	100	320,104	--	3,548	--
<b>Inland Empire</b>						
D	212	212	--	--	--	--
C and B [2]	175,577	21,500	154,077	--	--	--
A	353,326	15,200	259,097	79,029	--	--
Total	529,115	36,912	413,174	79,029	--	--
<b>Total, State</b>						
D [3]	70,833	32,914	22,371	--	3,548	12,000
C [3] [4]	323,012	33,769	280,111	--	5,932	3,200
B [4]	482,646	67,302	324,302	21,600	55,140	14,302
A	3,197,092	120,200	2,502,010	113,029	384,396	77,457
Total	4,073,583	254,185	3,128,794	134,629	449,016	106,959

[1] Mill-size classes are defined as follows: Class D mills = less than 40,000 board feet capacity per 8-hour shift; C = 40,000 - 79,999; B = 80,000 - 119,999; A = 120,000+.

[2] Combined to avoid disclosure.

[3] Total for Class D includes Class C for Lower Columbia and Central Washington.

[4] Total for Class C includes Class B for Inland Empire.



# SAWMILLS 1990

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/ and Whatcom[1]	154,684	12,669	136,083	--	5,932	--
King	164,541	461	111,640	--	52,440	--
Pierce	396,510	14,302	225,375	34,000	74,531	48,302
Skagit	95,825	2,825	82,250	--	10,750	--
Snohomish	412,990	9,414	326,676	--	73,700	3,200
<b>Total</b>	<b>1,224,550</b>	<b>39,671</b>	<b>882,024</b>	<b>34,000</b>	<b>217,353</b>	<b>51,502</b>
<b>Olympic Peninsula</b>						
Clallam	24,044	8,654	15,390	--	--	--
Grays Harbor	235,311	6,020	149,791	--	79,500	--
Jefferson/Pacific[1]	146,830	114,830	32,000	--	--	--
Lewis	454,862	43,218	355,587	--	12,600	43,457
Mason	280,091	--	280,091	--	--	--
Thurston	45,210	150	60	--	45,000	--
<b>Total</b>	<b>1,186,348</b>	<b>172,872</b>	<b>832,919</b>	<b>--</b>	<b>137,100</b>	<b>43,457</b>
<b>Lower Columbia</b>						
Clark/Klickitat/Skamania[1]	266,149	--	266,149	--	--	--
Cowlitz	543,669	4,630	414,424	21,600	91,015	12,000
<b>Total</b>	<b>809,818</b>	<b>4,630</b>	<b>680,573</b>	<b>21,600</b>	<b>91,015</b>	<b>12,000</b>
<b>Central Washington</b>						
Chelan/Kittitas/Yakima[1]	161,249	100	157,649	--	3,500	--
Okanogan	162,503	--	162,455	--	48	--
<b>Total</b>	<b>323,752</b>	<b>100</b>	<b>320,104</b>	<b>--</b>	<b>3,548</b>	<b>--</b>
<b>Inland Empire</b>						
Asotin/Walla Walla[1]	121,612	4	121,608	--	--	--
Ferry/Pend Oreille/Spokane[1]	153,500	26,700	86,600	40,200	--	--
Stevens	254,003	10,208	204,966	38,829	--	--
<b>Total</b>	<b>529,115</b>	<b>36,912</b>	<b>413,174</b>	<b>79,029</b>	<b>--</b>	<b>--</b>
<b>TOTAL, STATEWIDE</b>	<b>4,073,583</b>	<b>254,185</b>	<b>3,128,794</b>	<b>134,629</b>	<b>449,016</b>	<b>106,959</b>

[1] Combined to avoid disclosure.

# VENEER AND PLYWOOD MILLS 1990

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>				
Pierce	2	--	2	--
Skagit	2	--	2	--
Whatcom	1	--	--	1
Total	5	--	4	1
<b>Olympic Peninsula</b>				
Clallam	1	--	--	1
Grays Harbor	4	3	1	--
Jefferson	1	1	--	--
Lewis	3	3	--	--
Mason	1	--	--	1
Thurston	2	1	1	--
Total	12	8	2	2
<b>Lower Columbia</b>				
Clark	1	--	--	1
Klickitat	1	--	--	1
Skamania	1	--	--	1
Total	3	--	--	3
<b>Central Washington</b>				
Okanogan	1	--	--	1
Yakima	1	--	--	1
Total	2	--	--	2
<b>Inland Empire</b>				
Stevens	1	--	--	1
Total	1	--	--	1
<b>TOTAL, STATEWIDE</b>	<b>23</b>	<b>8</b>	<b>6</b>	<b>9</b>

# VENEER AND PLYWOOD MILLS 1990

Table D-37

Installed Eight-Hour Single-Shift Capacity  
(Thousand Square Feet, 3/8-inch basis)

Economic area and county	Type of operation			
	Veneer	Layup	Veneer and layup	
	only	only	Veneer	Layup
<b>Puget Sound</b>				
Pierce	--	260	--	--
Skagit	--	400	--	--
Whatcom	--	--	170	133
Total	--	660	170	133
<b>Olympic Peninsula</b>				
Clallam	--	--	100	150
Grays Harbor	570	225	--	--
Jefferson	44	--	--	--
Lewis	685	--	--	--
Mason	--	--	330	233
Thurston	75	225	--	--
Total	1,374	450	430	383
<b>Lower Columbia</b>				
Clark	--	--	125	500
Klickitat	--	--	300	300
Skamania	--	--	350	150
Total	--	--	775	950
<b>Central Washington</b>				
Okanogan	--	--	300	300
Yakima	--	--	220	225
Total	--	--	520	525
<b>Inland Empire</b>				
Stevens	--	--	256	185
Total	--	--	256	185
<b>TOTAL, STATEWIDE</b>	<b>1,374</b>	<b>1,110</b>	<b>2,151</b>	<b>2,176</b>

# VENEER AND PLYWOOD 1990

Table D-38

Number of Mills by Lathe Log Diameter Limit

Economic area	Lath log diameter limit									Total
	Layup only	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80+	
Puget Sound	4	0	0	0	0	0	1	0	0	5
Olympic Peninsula	2	0	2	2	1	0	3	0	2	12
Lower Columbia	0	0	0	1	0	0	0	0	2	3
Central Washington	0	0	0	2	0	0	0	0	0	2
Inland Empire	0	0	1	0	0	0	0	0	0	1
<b>TOTAL, STATEWIDE</b>	<b>6</b>	<b>0</b>	<b>3</b>	<b>5</b>	<b>1</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>4</b>	<b>23</b>

Table D-39

Number of Mills by Minimum Core Size Produced

Economic area	Lath log diameter limit										No lathe or core	Total
	3	4	5	6	7	8	9	10	11			
Puget Sound	0	0	1	0	0	0	0	0	0	0	4	5
Olympic Peninsula	1	3	2	3	1	0	0	0	0	0	2	12
Lower Columbia	0	0	3	0	0	0	0	0	0	0	0	3
Central Washington	0	1	1	0	0	0	0	0	0	0	0	2
Inland Empire	1	0	0	0	0	0	0	0	0	0	0	1
<b>TOTAL, STATEWIDE</b>	<b>2</b>	<b>4</b>	<b>7</b>	<b>3</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>23</b>

# VENEER AND PLYWOOD MILLS 1990

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>								
Pierce	--	--	--	--	--	--	2	--
Skagit	--	--	--	--	--	1	2	--
Whatcom	1	1	--	1	1	--	1	1
<b>Total</b>	<b>1</b>	<b>1</b>	<b>--</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>5</b>	<b>1</b>
<b>Olympic Peninsula</b>								
Clallam	1	1	--	1	1	--	1	1
Grays Harbor	2	1	--	3	2	1	1	--
Jefferson	--	1	--	1	1	--	--	--
Lewis	2	3	--	3	1	--	--	--
Mason	--	1	--	1	1	--	1	--
Thurston	1	--	--	--	--	--	1	--
<b>Total</b>	<b>6</b>	<b>7</b>	<b>--</b>	<b>9</b>	<b>6</b>	<b>1</b>	<b>4</b>	<b>1</b>
<b>Lower Columbia</b>								
Clark	1	1	--	1	1	--	1	--
Klickitat	1	1	--	1	--	--	1	--
Skamania	1	1	--	1	1	1	1	--
<b>Total</b>	<b>3</b>	<b>3</b>	<b>--</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>--</b>
<b>Central Washington</b>								
Okanogan	--	1	--	1	1	--	1	--
Yakima	--	1	--	1	1	--	1	--
<b>Total</b>	<b>--</b>	<b>2</b>	<b>--</b>	<b>2</b>	<b>2</b>	<b>--</b>	<b>2</b>	<b>--</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, STATEWIDE</b>	<b>10</b>	<b>14</b>	<b>--</b>	<b>16</b>	<b>12</b>	<b>3</b>	<b>15</b>	<b>2</b>

# VENEER AND PLYWOOD 1990

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+
<hr/>						
Puget Sound						
3-5	1	--	1	--	--	--
6-10	1	--	1	--	--	--
21+	3	--	1	--	--	2
Total	5	--	3	--	--	2
<hr/>						
Olympic Peninsula						
3-5	1	--	1	--	--	--
21+	11	1	1	--	2	7
Total	12	1	2	--	2	7
<hr/>						
Lower Columbia						
21+	3	--	--	--	--	3
Total	3	--	--	--	--	3
<hr/>						
Central Washington						
21+	2	1	--	--	--	1
Total	2	1	--	--	--	1
<hr/>						
Inland Empire						
21+	1	--	--	--	--	1
Total	1	--	--	--	--	1
<hr/>						
Total, State						
3-5	2	--	2	--	--	--
6-10	1	--	1	--	--	--
11-20	--	--	--	--	--	--
21+	20	2	2	--	2	14
<hr/>						
TOTAL, STATEWIDE	23	2	5	--	2	14

# VENEER AND PLYWOOD 1990

Table D-42

Average Number of Operating Days

Economic area	Veneer only	Layup only	Veneer and layup
Puget Sound	--	245	360
Olympic Peninsula	194	296	209
Lower Columbia	--	--	277
Central Washington	--	--	271
Inland Empire	--	--	352
STATEWIDE AVERAGE	194	262	278

Table D-43

Log Inventory Changes, Log Consumption and Apparent Log Receipts  
(Thousand board feet, Scribner log rule)

Economic area	Log inventory			1990 log consumption	Apparent 1990 log receipts
	January 1, 1990	December 31, 1990	Net change		
Puget Sound/ Olympic Peninsula[1]	11,399	13,560	2,161	124,931	127,092
Lower Columbia	23,754	10,872	(12,882)	49,988	37,106
Central Washington/ Inland Empire[1]	22,473	13,836	(8,637)	155,515	146,878
STATEWIDE AVERAGE	57,626	38,268	(19,358)	330,434	311,076

[1] Combined to avoid disclosure.

# VENEER AND PLYWOOD 1990

Table D-44

Production and Disposition of Wood Residues  
(Tons. dry weight)

Economic area	Total	Total used[1]	Used			Unused
			Pulp	Fuel	Other	
<b>Puget Sound/ Olympic Peninsula[2]</b>						
Coarse[3] & medium[4]	172,419	172,419	110,746	52,552	9,121	--
Fine[5]	11,079	11,079	--	11,079	--	--
<b>Total</b>	<b>183,498</b>	<b>183,498</b>	<b>110,746</b>	<b>63,631</b>	<b>9,121</b>	<b>--</b>
<b>Lower Columbia</b>						
Coarse[3] & medium[4]	102,183	102,183	72,064	11,182	18,937	--
Fine[5]	5,765	5,568	--	3,796	1,772	197
<b>Total</b>	<b>107,948</b>	<b>107,751</b>	<b>72,064</b>	<b>14,978</b>	<b>20,709</b>	<b>197</b>
<b>Central Washington/ Inland Empire[2]</b>						
Coarse[3] & medium[4]	239,165	239,165	202,085	30,654	6,426	--
Fine[5]	10,827	10,827	--	10,827	--	--
<b>Total</b>	<b>249,992</b>	<b>249,992</b>	<b>202,085</b>	<b>41,481</b>	<b>6,426</b>	<b>--</b>
<b>Total, State</b>						
Coarse[3] & medium[4]	513,767	513,767	384,895	94,388	34,484	--
Fine[5]	27,671	27,474	--	25,702	1,772	197
<b>TOTAL, STATEWIDE</b>	<b>541,438</b>	<b>541,241</b>	<b>384,895</b>	<b>120,090</b>	<b>36,256</b>	<b>197</b>

[1] Used residues were not necessarily consumed in the area in which they were produced.

[2] Combined to avoid disclosure.

[3] Coarse residue includes log trim, cores, veneer clippings, roundup and spur trim.

[4] Medium residue includes reject veneer and panel trim.

[5] Fine residue includes sawdust and sander dust.



# VENEER AND PLYWOOD 1990

Table D-45

Veneer and Plywood Production  
(Thousand square feet, 3/8-inch basis)

---

Economic area and county	Veneer	Plywood[1]
Puget Sound Pierce/Skagit/Whatcom[2]	--	191,111
Olympic Peninsula Clallam/Grays Harbor/Jefferson/	253,207	312,442
Lower Columbia Clark/Klickitat/ Skamania[2]	33,614	262,053
Central Washington/ Inland Empire Okanogan/Yakima/ Stevens[2]	6,328	492,100
<hr/>		
TOTAL, STATEWIDE	293,149	1,257,706

[1] Includes hardwood and softwood-faced plywood.

[2] Combined to avoid disclosure.

# PULP MILLS 1990

Table D-46

Number of Pulp Mills [1]

Economic area and county	All mills	Sulfite	Sulfate	Ground-wood	Semi-Chemic
<b>Puget Sound</b>					
Pierce	2	--	1	1	--
Snohomish	2	1	1	--	--
Whatcom	2	1	--	--	1
Total	6	2	2	1	1
<b>Olympic Peninsula</b>					
Clallam	2	1	--	1	--
Grays Harbor	2	2	--	--	--
Jefferson	1	--	1	--	--
Total	5	3	1	1	--
<b>Lower Columbia</b>					
Clark	2	1	1	--	--
Cowlitz	5	--	2	1	2
Total	7	1	3	1	2
<b>Inland Empire</b>					
Pend Oreille	1	--	--	1	--
Spokane	1	--	--	1	--
Walla Walla	2	--	1	--	1
Total	4	--	1	2	1
<b>TOTAL, STATEWIDE</b>	<b>22</b>	<b>6</b>	<b>7</b>	<b>5</b>	<b>4</b>

[1] No board mills have operated in Washington State since 1982.

# PULP MILLS 1990

Table D-47

Installed Capacity by Type of Mill [1]

(Bone dry tons)

Economic area and county	All mills	Type of pulp mill			
		Sulfite	Sulfate	Ground- wood	Semi- Chemical
<hr/>					
Puget Sound					
Pierce	1,522	--	1,087	435	--
Snohomish	835	450	385	--	--
Whatcom	659	605	--	--	54
Total	3,016	1,055	1,472	435	54
<hr/>					
Olympic Peninsula					
Clallam	1,630	1,230	--	400	--
Grays Harbor	952	952	--	--	--
Jefferson	518	--	518	--	--
Total	3,100	2,182	518	400	--
<hr/>					
Lower Columbia					
Clark	1,375	405	970	--	--
Cowlitz	5,131	--	3,812	1,000	319
Total	6,506	405	4,782	1,000	319
<hr/>					
Inland Empire					
Pend Oreille	650	--	--	650	--
Spokane	270	--	--	270	--
Walla Walla	1,104	--	823	--	281
Total	2,024	--	823	920	281
<hr/>					
TOTAL, STATEWIDE	14,646	3,642	7,595	2,755	654

[1] 24-hour capacity.

# PULP MILLS 1990

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	--	--	5
Sulfate 21+	--	2	1	--	4
Groundwood ---2	1	--	--	--	--
11-20	--	--	--	1	--
21+	--	1	--	--	2
Semichemical 21+	--	--	--	--	4
<b>TOTAL, STATEWIDE</b>	<b>1</b>	<b>4</b>	<b>1</b>	<b>1</b>	<b>15</b>

Table D-49

Average Number of Operating Days

Economic Area	Pulp
Puget Sound	352
Olympic Peninsula	352
Lower Columbia	349
Inland Empire	360
<b>STATEWIDE AVERAGE</b>	<b>352</b>

# PULP MILLS 1990

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	1,042,158	175,103	81,124	239,283	156,600	390,048
Olympic Peninsula	564,265	--	243	77,252	121,683	365,087
Lower Columbia and Inland Empire[1]	2,711,711	699,044	1,004,816	890,014	--	117,837
<b>TOTAL, STATEWIDE</b>	<b>4,318,134</b>	<b>874,147</b>	<b>1,086,183</b>	<b>1,206,549</b>	<b>278,283</b>	<b>872,972</b>

## Type of Operation, Statewide

Sulfite	810,971	--	169,998	4,655	156,600	479,718
Sulfate	2,322,752	--	911,257	1,018,241	--	393,254
Groundwood	995,830	874,147	--	--	121,683	--
Semichemical	188,581	--	4,928	183,653	--	--
<b>TOTAL, STATEWIDE</b>	<b>4,318,134</b>	<b>874,147</b>	<b>1,086,183</b>	<b>1,206,549</b>	<b>278,283</b>	<b>872,972</b>

[1] Combined to avoid disclosure.

# PULP MILLS 1990

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			One dry tons					
Puget Sound	94,617	42,866	51,751	2,071,663	1,265,074	804,802	--	--	1,787
Olympic Peninsula	170,096	81,950	88,146	1,176,556	732,285	407,058	28,898	8,162	153
Lower Columbia and Inland Empire[1]	53,463	160	53,303	4,548,758	3,625,502	639,036	254,312	--	29,908
<b>TOTAL, STATEWIDE</b>	<b>318,176</b>	<b>124,976</b>	<b>193,200</b>	<b>7,796,977</b>	<b>5,622,861</b>	<b>1,850,896</b>	<b>283,210</b>	<b>8,162</b>	<b>31,848</b>

[1] Combined to avoid disclosure.

# PULP MILLS 1990

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[1]	94,617	1,360	59,551	33,441	265	0	0	0
<b>Chips[2]</b>								
Roundwood	804,802	27,174	481,262	172,468	3,923	0	58,872	61,103
Residue[3]	1,265,074							
Total chips	2,069,876							
<b>Olympic Peninsula</b>								
Total logs[1]	170,096	24,845	132,398	4,860	7,120	873	0	0
<b>Chips</b>								
Roundwood	407,058	21,502	308,709	9,127	38,514	0	0	29,206
Residue[3]	732,285							
Total chips	1,139,343							
<b>Lower Columbia/ Inland Empire[4]</b>								
Total logs[1]	53,463	15,863	27,163	0	0	88	315	10,034
<b>Chips</b>								
Roundwood	639,036	87,259	109,432	107,843	14,542	258,284	43,627	18,049
Residue[3]	3,625,502							
Total chips	4,264,538							
<b>TOTAL, STATEWIDE</b>								
Total logs[1]	318,176	42,068	219,112	38,301	7,385	961	315	10,034
<b>Chips</b>								
Roundwood	1,850,896	135,935	899,403	289,438	56,979	258,284	102,499	108,358
Residue[3]	5,622,861							
Total chips	7,473,757							

[1] Log consumption, thousand board feet, Scribner log rule.

[2] Chip volume, bone dry tons.

[3] Species breakdown for residue chips is not available.

[4] Combined to avoid disclosure.

# PULP MILLS 1990

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[1]	1,265,074					
Chip roundwood	804,802	504,203	0	0	294,292	6,307
Sawdust and shavings	0	0	0	0	0	0
<b>Total</b>	<b>2,069,876 [2]</b>	<b>504,203</b>	<b>0</b>	<b>0</b>	<b>294,292</b>	<b>6,307</b>
<b>Olympic Peninsula</b>						
Chip residue[1]	732,285					
Chip roundwood	407,058	360,406	3,042	0	33,468	10,142
Sawdust and shavings	37,060	33,593	0	0	3,467	0
<b>Total</b>	<b>1,176,403 [2]</b>	<b>393,999</b>	<b>3,042</b>	<b>0</b>	<b>36,935</b>	<b>10,142</b>
<b>Lower Columbia/ Inland Empire[3]</b>						
Chip residue[1]	3,625,502					
Chip roundwood	639,036	322,674	266,638	49,724	0	0
Sawdust and shavings	254,312	69,416	126,477	57,573	0	846
<b>Total</b>	<b>4,518,850 [2]</b>	<b>392,090</b>	<b>393,115</b>	<b>107,297</b>	<b>0</b>	<b>846</b>
<b>Total, State</b>						
Chip residue[1]	5,622,861					
Chip roundwood	1,850,896	1,187,283	269,680	49,724	327,760	16,449
Sawdust and shavings	291,372	103,009	126,477	57,573	3,467	846
<b>TOTAL, STATEWIDE</b>	<b>7,765,129 [2]</b>	<b>1,290,292</b>	<b>396,157</b>	<b>107,297</b>	<b>331,227</b>	<b>17,295</b>

[1] State or Province of origin for residue chips not available.  
 [2] Includes chip residue total.  
 [3] Combined to avoid disclosure.



# SHAKE AND SHINGLE MILLS 1990

Table D-54

Number of Shake and Shingle Mills and Their Operating Characteristics

Economic area and county	Number of mills	Total single shift capacity[1] (Squares)			Average number of operating days/year
		Shake	Shingle	Other	
Puget Sound					
King/ Snohomish/Whatcom[2]	7	277	144	61	145
Skagit	7	624	162	15	135
Total	14	901	306	76	140
Olympic Peninsula					
Clallam	10	465	292	13	194
Grays Harbor	15	974	377	187	179
Jefferson/ Pacific/Thurston[2]	4	81	1	2	131
Lewis	3	39	5	5	155
Total	32	1,559	675	207	175
Lower Columbia/Central Washington[2]					
Clark/Cowlitz/ Wahkiakum/Okanogan[2]	6	163	74	40	160
Total	6	163	74	40	160
TOTAL, STATEWIDE	52	2,623	1,055	323	164

[1] Eight-hour shift capacity.

[2] Combined to avoid disclosure.

# SHAKE AND SHINGLE MILLS 1990

Table D-55

Number of Shake and Shingle Mills with Selected Equipment

Economic area and county	Chipper	Barker	Burner
<b>Puget Sound</b>			
King	0	0	0
Skagit	0	0	5
Snohomish	2	0	1
Whatcom	0	0	0
Total	2	0	6
<b>Olympic Peninsula</b>			
Clallam	0	0	9
Grays Harbor	3	0	5
Jefferson	0	0	1
Lewis	1	0	0
Pacific	0	0	1
Thurston	0	0	0
Total	4	0	16
<b>Lower Columbia</b>			
Clark	0	0	0
Cowlitz	1	0	0
Wahkiakum	0	0	0
Total	1	0	0
<b>Central Washington</b>			
Okanogan	0	0	0
Total	0	0	0
<b>TOTAL, STATEWIDE</b>	<b>7</b>	<b>0</b>	<b>22</b>

# SHAKE AND SHINGLE MILLS 1990

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	2	--	--	--	1	1
6-10	4	--	--	3	1	--
11-20	24	--	2	1	21	--
21+	21	--	--	1	5	15
TOTAL, STATEWIDE	52	--	2	5	29	16

# SHAKE AND SHINGLE MILLS 1990

Table D-57

## Type of Wood Consumed

(Thousand board feet, Scribner log rule)

Economic area and county	All types	Sound logs	Utility logs	Other
<b>Puget Sound</b>				
King/ Snohomish/Whatcom[1]	2,657	1,455	80	1,122
Skagit	5,113	4,075	384	654
Total	7,770	5,530	464	1,776
<b>Olympic Peninsula</b>				
Clallam	8,708	6,958	584	1,166
Grays Harbor	62,686	20,835	38,246	3,605
Jefferson/ Pacific/Thurston[1]	708	540	10	158
Lewis	440	348	27	65
Total	72,542	28,681	38,867	4,994
<b>Lower Columbia/Central Washington[1]</b>				
Clark/Cowlitz/ Wahkiakum/Okanogan[1]	2,330	1,000	280	1,050
Total	2,330	1,000	280	1,050
<b>TOTAL, STATEWIDE</b>	<b>82,642</b>	<b>35,211</b>	<b>39,611</b>	<b>7,820</b>

[1] Combined to avoid disclosure.

# SHAKE AND SHINGLE 1990

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	
Puget Sound								
King/ Snohomish/Whatcom[1]	1,535	900	625	--	--	--	10	--
Skagit	4,459	483	2,575	--	--	--	1,401	--
Total	5,994	1,383	3,200	--	--	--	1,411	--
Olympic Peninsula								
Clallam	7,542	6,018	530	--	--	--	952	42
Grays Harbor	59,081	3,401	3,633	80	50,946	--	926	95
Jefferson/ Pacific/Thurston[1]	550	85	420	--	--	--	45	--
Lewis	375	--	45	--	--	--	299	31
Total	67,548	9,504	4,628	80	50,946	--	2,222	168
Lower Columbia/Central Washington[1]								
Clark/Cowlitz/ Wahkiakum/Okanogan[1]	1,280	300	300	--	600	--	--	80
Total	1,280	300	300	--	600	--	--	80
TOTAL, STATEWIDE	74,822	11,187	8,128	80	51,546	--	3,633	248

[1] Combined to avoid disclosure.

# SHAKE AND SHINGLE 1990

Table D-59

Production and Disposition of Wood and Bark Residues  
(Tons, dry weight)

Economic area and county	All residues			Wood residue		
	Total	Used[1]	Unused	Total	Used[1]	Unused
<b>Puget Sound</b>						
King/ Snohomish/Whatcom[2]	1,859	1,364	495	1,543	1,048	495
Skagit	6,142	90	6,052	4,484	90	4,394
<b>Total</b>	<b>8,001</b>	<b>1,454</b>	<b>6,547</b>	<b>6,027</b>	<b>1,138</b>	<b>4,889</b>
<b>Olympic Peninsula</b>						
Clallam	8,912	--	8,912	6,492	--	6,492
Grays Harbor	14,168	6,408	7,760	10,372	4,647	5,725
Jefferson/ Pacific/Thurston[2]	593	12	581	414	12	402
Lewis	393	390	3	283	280	3
<b>Total</b>	<b>24,066</b>	<b>6,810</b>	<b>17,256</b>	<b>17,561</b>	<b>4,939</b>	<b>12,622</b>
<b>Lower Columbia/Central Washington[2]</b>						
Clark/Cowlitz/ Wahkiakum/Okanogan[2]	2,182	2,182	--	1,817	1,817	--
<b>Total</b>	<b>2,182</b>	<b>2,182</b>	<b>--</b>	<b>1,817</b>	<b>1,817</b>	<b>--</b>
<b>TOTAL, STATEWIDE</b>	<b>34,249</b>	<b>10,446</b>	<b>23,803</b>	<b>25,405</b>	<b>7,894</b>	<b>17,511</b>

[1] Used residues were not necessarily consumed in the area in which they were produced.

[2] Combined to avoid disclosure.

# SHAKE AND SHINGLE 1990

Table D-59 (Continued)

Production and Disposition of Wood and Bark Residues  
(Tons, dry weight)

Bark residue		
Total	Used[1]	Unused
316	316	--
1,658	--	1,658
1,974	316	1,658
2,420	--	2,420
3,796	1,761	2,035
179	--	179
110	110	--
6,505	1,871	4,634
365	365	--
365	365	--
8,844	2,552	6,292

# SHAKE AND SHINGLE 1990

Table D-60

Production and Disposition of Wood Residues  
(Tons, dry weight)

Economic area and county	All types					
	Total	Total used[2]	Pulp	Fuel	Other	Unused
<b>Puget Sound</b>						
King/ Snohomish/Whatcom[3]	1,543	1,048	--	268	780	495
Skagit	4,484	90	--	--	90	4,394
<b>Total</b>	<b>6,027</b>	<b>1,138</b>	<b>--</b>	<b>268</b>	<b>870</b>	<b>4,889</b>
<b>Olympic Peninsula</b>						
Clallam	6,492	--	--	--	--	6,492
Grays Harbor	10,372	4,647	--	3,533	1,114	5,725
Jefferson/ Pacific/Thurston[3]	414	12	--	2	10	402
Lewis	283	280	--	39	241	3
<b>Total</b>	<b>17,561</b>	<b>4,939</b>	<b>--</b>	<b>3,574</b>	<b>1,365</b>	<b>12,622</b>
<b>Lower Columbia/Central Washington[3]</b>						
Clark/Cowlitz/ Wahkiakum/Okanogan[2]	1,817	1,817	225	1,443	149	--
<b>Total</b>	<b>1,817</b>	<b>1,817</b>	<b>225</b>	<b>1,443</b>	<b>149</b>	<b>--</b>
<b>TOTAL, STATEWIDE</b>	<b>25,405</b>	<b>7,894</b>	<b>225</b>	<b>5,285</b>	<b>2,384</b>	<b>17,511</b>

[1] End block trim, splats.

[2] Used residues were not necessarily consumed in the area in which they were produced.

[3] Combined to avoid disclosure.



# SHAKE AND SHINGLE 1990

Table D-60 (Continued)

Production and Disposition of Wood Residues  
(Tons, dry weight)

Coarse[1]					
Total	Total used[2]	Pulp	Fuel	Other	Unused
616	418	--	268	150	198
1,496	44	--	--	44	1,452
2,112	462	--	268	194	1,650
2,149	--	--	--	--	2,149
3,850	1,689	--	1,219	470	2,161
201	6	--	2	4	195
104	104	--	31	73	--
6,304	1,799	--	1,252	547	4,505
613	613	110	450	53	--
613	613	110	450	53	--
9,029	2,874	110	1,970	794	6,155

# SHAKE AND SHINGLE 1990

Table D-60 (Continued)

Production and Disposition of Wood Residues  
(Tons, dry weight)

Economic area and county	Fine[1]					
	Total	Total used[2]	Pulp	Fuel	Other	Unused
<b>Puget Sound</b>						
King/ Snohomish/Whatcom[3]	927	630	--	--	630	297
Skagit	2,988	46	--	--	46	2,942
<b>Total</b>	<b>3,915</b>	<b>676</b>	<b>--</b>	<b>--</b>	<b>676</b>	<b>3,239</b>
<b>Olympic Peninsula</b>						
Clallam	4,343	--	--	--	--	4,343
Grays Harbor	6,522	2,958	--	2,314	644	3,564
Jefferson/ Pacific/Thurston[3]	213	6	--	--	6	207
Lewis	179	176	--	8	168	3
<b>Total</b>	<b>11,257</b>	<b>3,140</b>	<b>--</b>	<b>2,322</b>	<b>818</b>	<b>8,117</b>
<b>Lower Columbia/Central Washington[3]</b>						
Clark/Cowlitz/ Wahkiakum/Okanogan[2]	1,204	1,204	115	993	96	--
<b>Total</b>	<b>1,204</b>	<b>1,204</b>	<b>115</b>	<b>993</b>	<b>96</b>	<b>--</b>
<b>TOTAL, STATEWIDE</b>	<b>16,376</b>	<b>5,020</b>	<b>115</b>	<b>3,315</b>	<b>1,590</b>	<b>11,356</b>

[1] Splints and sawdust.

[2] Used residues were not necessarily consumed in the area in which they were produced.

[3] Combined to avoid disclosure.

# SHAKE AND SHINGLE 1990

Table D-61

## Production and Disposition of Bark Residues (Tons, dry weight)

Economic area and county	Bark					
	Total	Total used[1]	Pulp	Fuel	Other	Unused
Puget Sound						
King/ Snohomish/Whatcom[2]	316	316	--	--	316	--
Skagit	1,658	--	--	--	--	1,658
Total	1,974	316	--	--	316	1,658
Olympic Peninsula						
Clallam	2,420	--	--	--	--	2,420
Grays Harbor	3,796	1,761	--	1,552	209	2,035
Jefferson/ Pacific/Thurston[2]	179	--	--	--	--	179
Lewis	110	110	--	21	89	--
Total	6,505	1,871	--	1,573	298	4,634
Lower Columbia/Central Washington[2]						
Clark/Cowlitz/ Wahkiakum/Okanogan[2]	365	365	--	346	19	--
Total	365	365	--	346	19	--
TOTAL, STATEWIDE	8,844	2,552	--	1,919	633	6,292

[1] Used residues were not necessarily consumed in the area in which they were produced.

[2] Combined to avoid disclosure.

# SHAKE AND SHINGLE MILLS 1990

Table D-62

Mill Production by Product Class

Economic area and county	Product class			Total
	Shakes	Shingles	Other[1]	
	----- Squares -----			
Puget Sound				
King/ Snohomish/Whatcom[2]	15,843	5,423	6,774	28,040
Skagit	40,596	27,398	--	67,994
Total	56,439	32,821	6,774	96,034
Olympic Peninsula				
Clallam	56,579	40,342	701	97,622
Grays Harbor	109,577	48,029	17,319	174,925
Jefferson/ Pacific/Thurston[2]	9,073	38	31	9,142
Lewis	2,342	1,362	1,032	4,736
Total	177,571	89,771	19,083	286,425
Lower Columbia/Central Washington[2]				
Clark/Cowlitz/ Wahkiakum/Okanogan[2]	16,530	10,870	400	27,800
Total	16,530	10,870	400	27,800
TOTAL, STATEWIDE	250,540	133,462	26,257	410,259

[1] Other includes such products as hip and ridge shakes, wedges, etc.

[2] Combined to avoid disclosure.

# POST, POLE AND PILING MILLS 1990

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 1990 [1]	
		Peeling	Treatment	Peeling	Treatment
Puget Sound	4	14,625	12,415	210 (4)	258 (3)
Olympic Peninsula/ Lower Columbia	3	16,836	18,100	-- (2)	-- (1)
Inland Empire	3	8,785	5,075	-- (3)	-- (3)
<b>TOTAL, STATEWIDE</b>	<b>10</b>	<b>40,246</b>	<b>35,590</b>	<b>140 (9)</b>	<b>157 (7)</b>

[1] Number of mills is noted by figures in parentheses.

[2] Combined to avoid disclosure.

# POST, POLE AND PILING MILLS 1990

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	1-2	3-5	6-10	11-20	21+
3-5	--	--	--	--	--	--
6-10	--	--	--	--	--	--
11-20	2	--	--	--	2	--
21+	8	--	2	1	1	4
TOTAL, STATEWIDE	10	--	2	1	3	4

# POST, POLE AND PILING MILLS 1990

Table D-65

Number of Post, Pole and Piling Mills with Selected Equipment

Economic area and county	Number of mills	Chipper	Peeler	Burner
<hr/>				
Puget Sound				
King	1	--	1	--
Pierce	1	--	1	1
Snohomish	1	--	1	1
Whatcom	1	--	1	1
Total	4	--	4	3
<hr/>				
Olympic Peninsula				
Mason	1	--	1	--
Thurston	1	--	1	--
Total	2	--	2	--
<hr/>				
Lower Columbia				
Clark	1	--	--	1
Total	1	--	--	1
<hr/>				
Inland Empire				
Stevens	3	--	3	1
Total	3	--	3	1
<hr/>				
TOTAL, STATEWIDE	10	--	9	5

# POST, POLE AND PILING MILLS 1990

Table D-66

Log Consumption by Timber Age  
(Thousand board feet, Scribner log rule)

Economic area and county	All age groups	Old growth (100+ years)	Young growth (less than 100 years)
<hr/>			
Puget Sound King/Pierce/Snohomish/ Whatcom[1]	11,141	7	11,134
Total	11,141	7	11,134
<hr/>			
Olympic Peninsula/ Lower Columbia Clark/ Mason/Thurston[1]	20,708	--	20,708
Total	20,708	--	20,708
<hr/>			
Inland Empire Stevens	1,140	--	1,140
Total	1,140	--	1,140
<hr/>			
TOTAL, STATEWIDE	32,989	7	32,982

[1] Combined to avoid disclosure.



# POST, POLE AND PILING MILLS 1990

Table D-67

Mill Production Shipments

(Thousand board feet, Scribner log rule)

---

Economic area	Shipments		
	Treated	Untreated	Total
Puget Sound	7,737	2,124	9,861
Olympic Peninsula/ Lower Columbia[1]	9,236	12,310	21,546
Inland Empire	640	500	1,140
<b>TOTAL, STATEWIDE</b>	<b>9,876</b>	<b>12,810</b>	<b>22,686</b>

[1] Combined to avoid disclosure.

# LOG EXPORT OPERATIONS 1990

Table D-68

Number of Export Operations and Type of Logs Exported

Economic area and port	County	Number of Operations	Volume of logs exported		
			Sound logs	Utility logs	Total
---Thousand board feet, Scribner log scale---					
Puget Sound					
Anacortes/ Bellingham/Seattle[1]	Skagit/Whatcom King	5	99,533	200	99,733
Everett	Snohomish	15	291,891	22	291,913
Tacoma	Pierce	10	481,899	3,723	485,622
Total		30	873,323	3,945	877,268
Olympic Peninsula					
Grays Harbor	Grays Harbor	12	498,015	508	498,523
Olympia	Thurston	8	148,421	16	148,437
Port Angeles	Clallam	13	270,243	3,354	273,597
Total		33	916,679	3,878	920,557
Lower Columbia					
Longview	Cowlitz	10	573,393	678	574,071
Total		10	573,393	678	574,071
TOTAL, STATEWIDE		73	2,363,395	8,501	2,371,896

[1] Combined to avoid disclosure.

# LOG EXPORT OPERATIONS 1990

Table D-69

Number of Export Operations by Years of Port Use

---

Years of port use	All Operations
0-2	5
3-5	11
6-10	8
11-20	22
21+	27

---

TOTAL, STATEWIDE	73
------------------	----

# LOG EXPORT OPERATIONS 1990

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/ Bellingham/ Seattle[1]	Everett[2]	Grays Harbor[3]	Longview[4]	Olympia[5]	Port Angeles[6]	Tacoma[7]	
<b>Puget Sound</b>								
King	11,000	30,936	--	--	2,499	--	189,561	233,996
Pierce	--	3,535	--	--	27,907	--	100,843	132,285
Skagit	62,868	64,886	--	--	--	--	--	127,754
Snohomish	10,119	134,215	--	--	--	--	5,902	150,236
Whatcom	15,746	42,606	--	--	--	--	--	58,352
<b>Total</b>	<b>99,733</b>	<b>276,178</b>	<b>--</b>	<b>--</b>	<b>30,406</b>	<b>--</b>	<b>296,306</b>	<b>702,623</b>
<b>Olympic Peninsula</b>								
Clallam	--	3,466	21,492	--	--	200,816	--	225,774
Grays Harbor	--	--	249,918	--	5,168	--	--	255,086
Jefferson	--	--	32,260	--	221	72,781	--	105,262
Lewis	--	--	68,015	78,776	20,419	--	46,658	213,868
Mason	--	--	29,014	--	63,019	--	39	92,072
Pacific	--	--	93,720	4,204	--	--	--	97,924
Thurston	--	--	4,104	--	29,204	--	93,022	126,330
<b>Total</b>	<b>--</b>	<b>3,466</b>	<b>498,523</b>	<b>82,980</b>	<b>118,031</b>	<b>273,597</b>	<b>139,719</b>	<b>1,116,316</b>
<b>Lower Columbia</b>								
Clark	--	--	--	179,565	--	--	--	179,565
Cowlitz	--	--	--	190,602	--	--	--	190,602
Skamania	--	--	--	31,721	--	--	--	31,721
Wahkiakum	--	--	--	12,103	--	--	--	12,103
<b>Total</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>413,991</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>413,991</b>
<b>Central Washington</b>								
Kittitas	--	9,830	--	--	--	--	49,597	59,427
<b>Total</b>	<b>--</b>	<b>9,830</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>49,597</b>	<b>59,427</b>
<b>Inland Empire</b>								
<b>Total</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>
<b>TOTAL, STATEWIDE</b>	<b>99,733</b>	<b>289,474</b>	<b>498,523</b>	<b>496,971</b>	<b>148,437</b>	<b>273,597</b>	<b>485,622</b>	<b>2,292,357</b>
Outside Washington	--	2,439	--	77,100	--	--	--	79,539
<b>TOTAL RECEIPTS AT PORTS</b>	<b>99,733</b>	<b>291,913</b>	<b>498,523</b>	<b>574,071</b>	<b>148,437</b>	<b>273,597</b>	<b>485,622</b>	<b>2,371,896</b>

[1] Skagit, Whatcom and King counties.

[2] Snohomish County.

[3] Grays Harbor County.

[4] Cowlitz County.

[5] Thurston County.

[6] Clallam County.

[7] Pierce County.

# LOG EXPORT OPERATIONS 1990

Table D-71

## Log Consumption

(Thousand board feet, Scribner log rule)

Economic area and county of export	All species	Douglas fir	Hemlock	True firs	Spruce	Ponderosa pine	Lodgepole pine	Western redcedar	Other softwoods	Hardwoods
Puget Sound										
King/Skagit/& Whatcom[1]	99,733	57,740	20,993	2,000	2,000	--	--	13,000	4,000	--
Pierce	485,622	330,306	126,358	10,622	7,505	--	--	6,122	1,657	3,052
Snohomish	291,913	170,266	109,024	755	390	44	--	1,354	1,586	8,494
Total	877,268	558,312	256,375	13,377	9,895	44	--	20,476	7,243	11,546
Olympic Peninsula										
Clallam	273,597	77,794	162,383	4,688	17,974	--	--	8,886	469	1,403
Grays Harbor	498,523	258,320	202,699	12,054	16,378	--	829	6,893	414	936
Thurston	148,437	128,496	18,317	179	--	--	--	84	648	713
Total	920,557	464,610	383,399	16,921	34,352	--	829	15,863	1,531	3,052
Lower Columbia										
Cowlitz	574,071	477,684	80,361	8,639	2,780	--	--	--	3,863	744
Total	574,071	477,684	80,361	8,639	2,780	--	--	--	3,863	744
TOTAL, STATEWIDE	2,371,896	1,500,606	720,135	38,937	47,027	44	829	36,339	12,637	15,342

[1] Combined to avoid disclosure.

# LOG EXPORT OPERATIONS 1990

Table D-72

Ownership Origin of Logs Consumed  
(Thousand board feet, Scribner log rule)

Economic area and county of export	All owners	State	National Forest	Bureau of Land Management	Forest industry			
					Other public	Own wood supply	Other wood supply	Farmer and miscellaneous
<hr/>								
Puget Sound								
King/Skagit/ Whatcom[1]	99,733	21,614	--	--	4,000	9,500	48,619	16,000
Pierce	485,622	56,658			8,994	250,500	91,488	77,982
Snohomish	291,913	83,683	390	--	6,375	31,375	82,888	87,282
Total	877,268	161,875	390	--	19,369	291,375	222,995	181,264
<hr/>								
Olympic Peninsula								
Clallam	273,597	87,746	--	--	181	52,000	80,400	53,270
Grays Harbor	498,523	89,132	--	--	6,433	188,700	147,240	67,018
Thurston	148,437	24,505	--	--	939	62,482	43,742	16,769
Total	920,557	201,383	--	--	7,553	303,182	271,382	137,057
<hr/>								
Lower Columbia								
Cowlitz	574,071	83,182	--	--	--	155,595	177,843	157,451
Total	574,071	83,182	--	--	--	155,595	177,843	157,451
<hr/>								
TOTAL, STATEWIDE	2,371,896	446,440	390	--	26,922	750,152	672,220	475,772

[1] Combined to avoid disclosure.

# Appendix E





## Sawmills

### ASOTIN COUNTY

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

### CHELAN COUNTY

Big Toy Log Mill  
14421 Shamel  
Entiat, WA 98822  
Phone: (509) 784-1689

### CLALLAM COUNTY

Beaver Lumber Co., Inc.  
P.O. Box 117  
Beaver, WA 98305  
Phone: (206) 327-3770

Hendrickson Bay Inc.  
P.O. Box 4026  
Port Angeles, WA 98362  
Phone: (206) 457-3032

Loth Lumber  
Forks Mill  
(This mill was sold in 1991)

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

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

Olympic Wood Products  
P.O. Box 744  
Port Angeles, WA 98362  
Phone: (206) 452-3566

### CLARK COUNTY

Columbia Vista Corporation  
P.O. Box 489  
Vancouver, WA 98666  
Phone: (206) 892-0770

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

### COWLITZ COUNTY

Caffall Brothers Forest  
Products  
Longview Fence Division  
540 Third Avenue  
Longview, WA 98632  
Phone: (206) 636-5960

Gram Lumber Company  
998 N.W. Second  
Kalama, WA 98625  
Phone: (206) 673-2825

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

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

RSG Forest Products  
985 N.W. Second  
Kalama, WA 98625  
Phone: (206) 673-2825

Western Wood Products  
893 Smith Road  
Toutle, WA 98649  
Phone: (206) 274-4047

Weyerhaeuser Company  
Green Mountain Mill  
Tacoma, WA 98401  
Phone: (206) 274-6679

Weyerhaeuser Company  
Northwest Hardwood  
Mill, Longview  
Tacoma, WA 98401  
Phone: (206) 274-6679

### FERRY COUNTY

Brauner Lumber Co.  
4219 Highway 395 North  
Kettle Falls, WA 99141  
Phone: (509) 738-6311

Vaagen Brothers Lumber Inc.  
Republic Mill  
565 West Fifth  
Republic, WA 99114  
Phone: (509) 775-3346

### GRAYS HARBOR COUNTY

Dahlstrom Lumber Company  
P.O. Box 386  
Hoquiam, WA 98550  
Phone: (206) 533-0448

ITT Rayonier  
Grays Harbor Lumber  
Operation  
(This mill was closed in 1990)

Mary's River Lumber Co.  
Montesano Division  
P.O. Box 569  
Montesano, WA 98563  
Phone: (206) 249-5650

Mayr Brothers Logging Co.  
P.O. Box 180  
Hoquiam, WA 98550  
Phone: (206) 532-7490

Westby Lumber Inc.  
P.O. Box 142  
Copalis Beach, WA 98535  
Phone: (206) 289-3435

Weyerhaeuser Company  
Aberdeen Sawmill  
Tacoma, WA 98401  
Phone: (206) 924-2913

WTD Forest Industries  
Pacific Hardwood  
Hoquium, Washington  
(Permanently closed, 1990)

### ISLAND COUNTY

Waterman Mill Co. Inc.  
Langley, Washington  
(Permanently closed in 1990  
and dismantled)

### JEFFERSON COUNTY

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

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

Olympic Camp Sawmill  
HC 80 Box 2500  
Forks, WA 98331  
Phone: (206) 737-6181

### KING COUNTY

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

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

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

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

Weyerhaeuser Company  
Enumclaw Sawmill  
Tacoma, WA 98401  
Phone: (206) 924-2913

### KITSAP COUNTY

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

### KITITAS COUNTY

Conner Lumber  
HC 61 Box 721  
Cle Elum, WA 98922  
Phone: (509) 764-2046

### KLICKITAT COUNTY

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

SDS Lumber Company  
P.O. Box 266  
Bingen, WA 98605  
Phone: (509) 493-2155

### LEWIS COUNTY

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

Cascade Hardwoods  
P.O. Box 269  
Chehalis, WA 98532  
Phone: (206) 748-0178

Gardner Mill Company  
427 Peters Road  
Randle, WA 98377  
Phone: (206) 493-7043

Cowlitz Stud Co.  
Morton Mill  
P.O. Box P  
Morton, WA 98356  
Phone: (206) 496-5115

Cowlitz Stud Co.  
Randle Mill  
P.O. Box 219  
Randle, WA 98377  
Phone: (206) 497-5030

Packwood Lumber Co.  
P.O. Box 229  
Packwood, WA 98361  
Phone: (206) 494-5175

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

Weyerhaeuser Company  
Centralia Hardwood Mill  
Tacoma, WA 98401  
Phone: (206) 736-2811

WTD Industries Inc.  
Morton Forest Products  
Priest Road  
Morton, WA 98356  
Phone: (206) 496-6666

#### MASON COUNTY

Little Skookum Mill  
780 West Hwy 108  
Shelton, WA 98584  
Phone: (206) 426-9721

Olympic Wood Products Inc.  
P.O. Box 1550  
Shelton, WA 98584  
Phone: (206) 426-0851

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

Simpson Timber Company  
Sawmill # 5  
Third and Franklin  
Shelton, WA 98584  
Phone: (206) 426-3381

#### OKANOGAN COUNTY

Colville Indian  
Precision Pine Company  
P.O. Box 3293  
Omak, WA 98841  
Phone: (509) 826-1921

Omak Wood Products Inc.  
Route 2, Box 54  
Omak, WA 98841  
Phone: (509) 826-1460

Tonasket Lumber  
Box 452  
Tonasket, WA 98855  
Phone: (509) 486-1211

Zosei Lumber Company  
P.O. Box 580  
Oroville, WA 98844  
Phone: (509) 476-2111

#### PACIFIC COUNTY

WTD Pacific Hardwoods, Inc.  
P.O. Box 185  
South Bend, WA 98586  
Phone: (206) 942-5525

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

#### PEND OREILLE COUNTY

Vaagen Brothers Lumber Inc.  
Ione Mill  
P.O. Box 257  
Ione, WA 99139  
Phone: (509) 442-3511

#### PIERCE COUNTY

Commencement Bay Mill  
P.O. Box 1276  
Tacoma, WA 98401  
Phone: (206) 596-0683

Louisiana-Pacific Corp.  
Tacoma Accounting  
P.O. Box 4000-98  
Hayden Lake, ID 83835  
Phone: (208) 772-6011

Manke Lumber Company  
13702 Eighth Street East  
Sumner, WA 98390  
Phone: (206) 863-4495

Manke Lumber Company  
1717 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

WTD Spanaway Lumber Co.  
19111 38th Avenue East  
Tacoma, WA 98446  
Phone: (206) 847-1935

#### SAN JUAN COUNTY

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

#### SKAGIT COUNTY

Barrell Springs Mill  
146 Barrell Springs Road  
Bellingham, WA 98225

Goodyear Nelson Hardwood  
P.O. Box 71  
Sedro Wooley, WA 98284  
Phone: (206) 856-0816

Snow Mountain Mills  
1488 Valley View Drive  
Mount Vernon, WA 98273  
Phone: (206) 293-5812

WTD Industries Inc.  
Sedro Wooley Lumber  
Company  
P.O. Box 639  
Sedro Wooley, WA 98284

#### SKAMANIA COUNTY

Wilkins, Kaiser, & Olsen Inc.  
P.O. Box 8  
Carson, WA 98610  
Phone: (509) 427-8413

#### SNOHOMISH COUNTY

Beck Mill Company, Inc.  
27710 Old Highway 99  
Stanwood, WA 98292  
Phone: (206) 629-4769

Brazier Forest Products  
P.O. Box 3189  
Arlington, WA 98223  
Phone: (206) 435-8525

Buse Timber Sales, Inc.  
P.O. Box 5226  
Everett, WA 98206  
Phone: (206) 258-2577

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

Enterprise Lumber Company  
21021 SR 530 NE  
Arlington, WA 98223  
Phone: (206) 435-5733

Fritch's 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

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

Loth Lumber Company  
P.O. Box 900  
Gold Bar, WA 98251  
Phone: (206) 793-1135

Seattle Snohomish Mill  
P.O. Box 949  
Snohomish, WA 98291-0949  
Phone: (206) 568-2171

Smith Street Mill  
3600 Smith Street  
Everett, WA 98201  
Phone: (206) 252-7179

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

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

Weyerhaeuser Company  
Arlington Hardwood Sawmill  
Tacoma, WA 98401  
Phone: (206) 435-8502

#### SPOKANE COUNTY

WI Forest Products  
P.O. Box 3344  
Spokane, WA 99220  
Phone: (509) 534-1561

#### STEVENS COUNTY

Bean Lumber Company  
2344 East Cozy Nook Road  
Chewelah, WA 99109  
Phone: (509) 935-6304

Boise Cascade Corporation  
Kettle Falls Mill  
South 110 Boise Road  
Kettle Falls, WA 99141  
Phone: (509) 738-6421

Boise Cascade Corporation  
Small Log Mill  
South 110 Boise Road  
Kettle Falls, WA 99141  
Phone: (509) 738-6421

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

Dan's Lumber Company  
5600 Scow Valley Road  
Deer Park, WA 99006  
Phone: (206) 276-6568

Plum Creek Inc.  
Arden Mill  
634 Highway 395 South  
Colville, WA 99114  
Phone: (509) 684-5084

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

Vaagen Brothers Lumber Inc.  
Colville Mill  
565 West Fifth  
Colville, WA 99114  
Phone: (509) 684-5071

WTD Industries Inc.  
Valley Wood Products  
Valley, WA 99181  
(Mill dismantled, 1991)

#### THURSTON COUNTY

Cedar Creek Sawmill  
P.O. Box 105  
Little Rock, WA 98556  
Phone: (206) 753-6837

Parks Cedar Creek Sawmill  
P.O. Box 105  
Little Rock, WA 98556  
Phone: (206) 753-6837

Pfaff Quality Lumber  
2138 93rd Ave. S.E.  
Olympia, WA 98501  
Phone: (206) 352-8524

WTD Industries Inc.  
Tumwater Lumber Company  
P.O. Box 4158  
Tumwater, WA 98501  
Phone: (206) 352-1548

#### WALLA WALLA COUNTY

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

Louisiana Pacific Corp.  
Walla Walla Accounting  
P.O. Box 4000-98  
Hayden Lake, ID 83835  
Phone: (208) 772-6011

#### WHATCOM COUNTY

Great Western Lumber  
Company  
P.O. Box 159  
Everson, WA 98247  
Phone: (206) 966-3061

#### YAKIMA COUNTY

Boise Cascade Company  
Yakima Sawmill  
P.O. Box 51  
Yakima, WA 98907  
Phone: (509) 453-3181

Layman Lumber Company  
P.O. Box 235  
Naches, WA 98937  
Phone: (509) 653-2221



#### COWLITZ COUNTY

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

Strange Shake Mill  
218 South Town Road  
Castle Rock, WA 98611

#### CLALLAM COUNTY

B & W Shake Company  
P.O. Box 368  
Forks, WA 98331  
Phone: (206) 374-9810

C & L Shake & Shingle  
298 Fey Road  
Port Angeles, WA 98362  
Phone: (206) 452-8875

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

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

D & R Cedar  
P.O. Box 634  
Forks, WA 98331  
Phone: (206) 374-9283

Hinchen Brothers Shingle  
P.O. Box 2116  
Forks, WA 98331  
Phone: (206) 374-9821

Hollywood Shake Company  
P.O. Box 1984  
Forks, WA 98331  
Phone: (206) 374-6688

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

Newton Cedar Products Inc.  
P.O. Box 1519  
Forks, WA 98331  
Phone: (206) 374-5574

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

#### CLARK COUNTY

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

#### GRAYS HARBOR COUNTY

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

B & J Shake  
P.O. Box 508  
Oakville, WA 98568  
Phone: (206) 273-9120

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

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

Cedar Shake Mill  
North Beach Cedar  
P.O. Box 84  
Pacific Beach, WA 98571

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

Double D & R Inc  
Route 3 Box 1353  
Hoquiam, WA 98550  
Phone: (206) 987-2458

Hoh River Cedar  
P.O. Box 127  
Beaver, WA 98305

L & H Shake  
Moclips, WA 98562  
Phone: (206) 289-3283

Marshall Wells Shake  
Box 714  
Amanda Park, WA 98526

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

Peterson Shake Company, Inc.  
P.O. 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

River Valley Shake  
P.O. Box 161  
Humptulips, WA 98552

Taholah Shake Mill  
P.O. Box 8  
Taholah, WA 98587  
Phone: (206) 276-4644

Theel Shake Inc.  
P.O. Box 59  
Neilton, WA 98566  
Phone: (206) 288-2744

#208 Shake & Shingle Co.  
P.O. Box 208  
Moclips, WA 98562  
Phone: (206) 276-4122

#### JEFFERSON COUNTY

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

#### KING COUNTY

Novelty Cedar Products Co.  
3008 N.E. 185th Street  
Seattle, WA 98155

#### LEWIS COUNTY

Nederlander & Sons  
946 State Hiway 508  
Chehalis, WA 98532  
Phone: (206) 262-3567

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

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

#### OKANOGAN

Havillah Shake Company  
1092 Havillah Road  
Tonasket, WA 98855

#### PACIFIC COUNTY

Bryant Shake Company  
944 Ash  
Raymond, WA 98577

#### SKAGIT COUNTY

A & B Shake Company  
P.O. Box 103  
Clearlake, WA 98235  
Phone: (206) 856-0827

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

Dukes Hill Shake Mill  
2115 Hoogdal Road  
Sedro Woolley, WA 98284

Hyaka Cedar Products  
3125 Hwy 20  
Sedro Woolley, WA 98284  
Phone: (206) 826-3570

Hurn Shingle Company, Inc.  
4247 Grassmere Road  
P.O. Box 799  
Concrete, WA 98237

Iron Mountain Cedar Prod. Inc.  
P.O. Box 21  
Hamilton, WA 98255  
Phone: (206) 826-4181

Jones Shake and Shingle  
5783 Hwy 20  
Rockport, WA 98283  
Phone: (206) 873-4044

#### SNOHOMISH COUNTY

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

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

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

Snohomish Shake Company  
4716 139th Aveune S.E.  
Snohomish, WA 98290  
Phone: (206) 335-0986

State Roofing Inc.  
P.O. Box 53  
Monroe, WA 98272  
Phone: (2006) 794-7164

#### STEVENS COUNTY

Rustic Shake Co.  
Rt. 1, Box 300  
Evans, WA 99126  
Phone: (509) 684-5947

#### THURSTON COUNTY

Raindance Cedar Shakes, Inc.  
2600 McCorkle Road SE  
Olympia, WA 98502  
Phone: (206) 352-7491

#### WAHKIAKUM COUNTY

Anderson Shake & Shingle Co.  
P.O. Box 1  
Cathlamet, WA 98612  
Phone: (206) 795-3211

B & M Wood Products  
428 St. HSwy 407  
Cathlamet, WA 98612  
Phone: (206) 795-3380

#### WHATCOM COUNTY

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

## Veneers/ Plywood

K-Ply Incorporated  
P.O. Box 2318  
Port Angeles, WA 98362  
Phone: (206) 457-4421

Morton Forest Products Inc.  
WTD Industries Inc.  
Priest Road  
Morton, WA 98356  
Phone: (206) 496-6666

Pacific Veneer  
100 North Decatur  
Aberdeen, WA 98520  
Phone: (206) 538-1060

Simpson Timber Company  
Olympic Plywood  
Third & Franklin  
Shelton, WA 98584  
Phone: (206) 426-3381 X 8684

Solid Wood Incorporated  
P.O. Box 1628  
Olympia, WA 98507  
Phone: (206) 943-4335

West Veneer  
P.O. Box 217  
Randle, WA 98377  
Phone: (206) 497-5121

### LOWER COLUMBIA AREA

Fort Vancouver Plywood  
P.O. Box 289  
Vancouver, WA 98666  
Phone: (206) 694-3368

SDS Lumber Company  
P.O. Box 266  
Bingen, WA 98605  
Phone: (509) 493-2155

Stevenson Co-Ply Inc.  
P.O. Box 910  
Stevenson, WA 98648  
Phone: (509) 427-5621

### CENTRAL WASHINGTON

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

Omak Wood Products Inc.  
Route 2, Box 54  
Omak, WA 98841  
Phone: (509) 826-1460

### INLAND EMPIRE AREA

Boise Cascade Corporation  
Kettle Falls Mill  
P.O. Box 310  
Kettle Falls, WA 99141  
Phone: (509) 738-6421

## Pulp Mills

### PUGET SOUND AREA

Boise Cascade Corporation  
4302 Chambers Creek Road  
Steilacoom, WA 98388  
Phone: (206) 588-2115

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

Scott Paper Company  
P.O. Box 925  
Everett, WA 98206  
Phone: (206) 259-7469

Simpson Tacoma Kraft Co.  
P.O. Box 2133  
Tacoma, WA 98401  
Phone: (206) 572-2150

Weyerhaeuser Company  
Everett Kraft  
Tacoma, WA 98401  
Phone: (206) 339-2850

### OLYMPIC PENINSULA AREA

Daishowa America, Co., LTD  
P.O. Box 271  
Port Angeles, WA 98362  
Phone: (206) 457-4474

ITT Rayonier Inc.  
P.O. Box 299  
Hoquiam, WA 98550  
Phone: (206) 538-5810

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

Port Townsend Paper Co.  
P.O. Box 3170  
Port Townsend, WA 98368  
Phone: (206) 385-3170

Weyerhaeuser Company  
Cosmopolis Sulfite  
Tacoma, WA 98401  
Phone: (206) 924-2284

### LOWER COLUMBIA AREA

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

Longview Fiber Company  
P.O. Box 3000  
Longview, WA 98632  
Phone: (206) 425-1550

NORPAC  
P.O. Box 2069  
Longview, WA 98632  
Phone: (206) 636-6413

Weyerhaeuser Company  
Longview  
- Containerboard  
- Bleached Board  
& Fine Paper  
Tacoma, WA 98401  
Phone: (206) 425-2150

### INLAND EMPIRE AREA

Boise Cascade Corporation  
P.O. Box 500  
Walla Walla, WA 99363  
Phone: (509) 547-2411

Inland Empire Paper Company  
North 3320 Argonne Road  
Spokane, WA 99212  
Phone: (509) 924-1911

Ponderay Newsprint Company  
P.O. Box 130  
Usk, WA 99180  
Phone: (509) 445-1511

### PUGET SOUND AREA

Bay View Plywood Company  
P.O. Box 608  
Burlington, WA 98233  
Phone: (206) 757-8482

Custom Plywood Corporation  
P.O. Box 1289  
Arlington, WA 98221  
Phone: (206) 293-5341

Graham Plywood Company  
8220 Eustis-Hunt Road  
Spanaway, WA 98387  
Phone: (206) 847-4141

Mount Baker Plywood Inc.  
P.O. Box 997  
Bellingham, WA 98227  
Phone: (206) 733-3960

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

### OLYMPIC PENINSULA AREA

Agnew Lumber Company  
Centralia, WA 98531  
(Mill dismantled in 1991)

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

Elma Plywood Corporation  
P.O. Box A1  
Elma, WA 98541  
Phone: (206) 482-2521

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

Hardel Mutual Plywood Co.  
P.O. Box 365  
Olympia, WA 98507  
Phone: (206) 754-6030

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

## Post, Pole & Piling

### PUGET SOUND AREA

J. H. Baxter Company  
P.O. Box 305  
Arlington, WA 98223  
Phone: (206) 435-2146

McFarland Cascade  
Pole Division  
P.O. Box 1496  
Tacoma, WA 98401  
Phone: (206) 572-3033

Novelty Cedar Products Co.  
3008 N.E. 185th Street  
Seattle, WA 98155  
Phone: (206) 362-7467

The Oeser Company  
P.O. Box 156  
Bellingham, WA 98227  
Phone: (206) 734-1480

### OLYMPIC PENINSULA AREA

Pacific Lumber and Shipping  
Rochester Poles  
18146 Dallas Street S.W.  
Rochester, WA 98579  
Phone: (206) 273-5541

S-V Pullin Inc.  
3518 E 52nd  
Tacoma, WA 98443  
Phone: (206) 426-2624

### LOWER COLUMBIA AREA

Pacific Wood Treating Corp.  
P.O. Box 518  
Ridgefield, WA 98642  
Phone: (206) 887-3562

### INLAND EMPIRE AREA

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

Colville Post & Poles Inc.  
Route 2, Box 535  
Colville, WA 99114  
Phone: (509) 684-6363

Spokane Tribal Wood Products  
P.O. Box 237  
Wellpinit, WA 99040  
Phone: (509) 258-7431

## Log Exporters

Citifor Inc.  
7272 Columbia Center  
701 Fifth Avenue  
Seattle, WA 98104-7090  
Phone: (206) 622-3770

Coast Pacific Trading Inc.  
4202 Meridian, Suite 101  
Bellingham, WA 98225  
Phone: (206) 671-2890

Futian International Inc.  
1601 114th N.E.  
Bellevue, WA 98004  
Phone: (206) 451-2064

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

Hyundai Wood Industries  
10900 N.E. 4th St., Suite 1145  
Bellevue, WA 98004  
Phone: (206) 455-0124

International Paper Company  
P.O. Box 579  
Longview, WA 98632  
Phone: (206) 636-8436

C. Itoh and Company  
900 Fourth Avenue, Suite 3600  
Seattle, WA 98164  
Phone: (206) 623-3764

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

ITT Rayonier  
P.O. Box 34162  
Seattle, WA 98124  
Phone: (206) 248-4153

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

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

Mitsubishi International  
1201 Third Ave., Suite 3700  
Seattle, WA 98101  
Phone: (206) 682-0744

MRCG Company  
P.O. Box 2498  
Port Angeles, WA 98362  
Phone: (206) 452-4933

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

J. Pac Inc.  
718 Hindley Lane  
Edmonds, WA 98020  
Phone: (206) 774-9718

Pacific Lumber & Shipping  
3131 Rainier Bank Tower  
Seattle, WA 98111  
Phone: (206) 682-7262

Plum Creek Timber Company  
First Interstate Center  
999 Third Avenue, Suite 2300  
Seattle, WA 98104  
Phone: (206) 467-3605

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

Sumitomo Forestry Co., Ltd.  
Plaza Suite 2725  
1001 Fourth Avenue  
Seattle, WA 98154  
Phone: (206) 623-8840

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

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

Tomen America Inc.  
One Union Square, Suite 2800  
600 University Street  
Seattle, WA 98101-3139  
Phone: (206) 682-4044

Westwood Timber  
2300 Sixth Avenue  
Portland, OR 97201  
Phone: (503) 225-9450

Weyerhaeuser Company  
Tacoma, WA 98401  
Phone: (206) 425-6012

Yuasa Trading  
1111 Third Ave., Suite 1410  
Seattle, WA 98101  
Phone: (206) 223-0880





WASHINGTON STATE DEPARTMENT OF  
**Natural Resources**

Jennifer St. Belcher - Commissioner of Public Lands  
Kaleen Cottingham - Supervisor

OLYMPIA, WASHINGTON 98504-7000



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