



Washington Mill Survey 1992

.....
Series Report # 13



WASHINGTON STATE DEPARTMENT OF
Natural Resources

Jennifer M. Belcher - Commissioner of Public Lands

ACKNOWLEDGMENTS

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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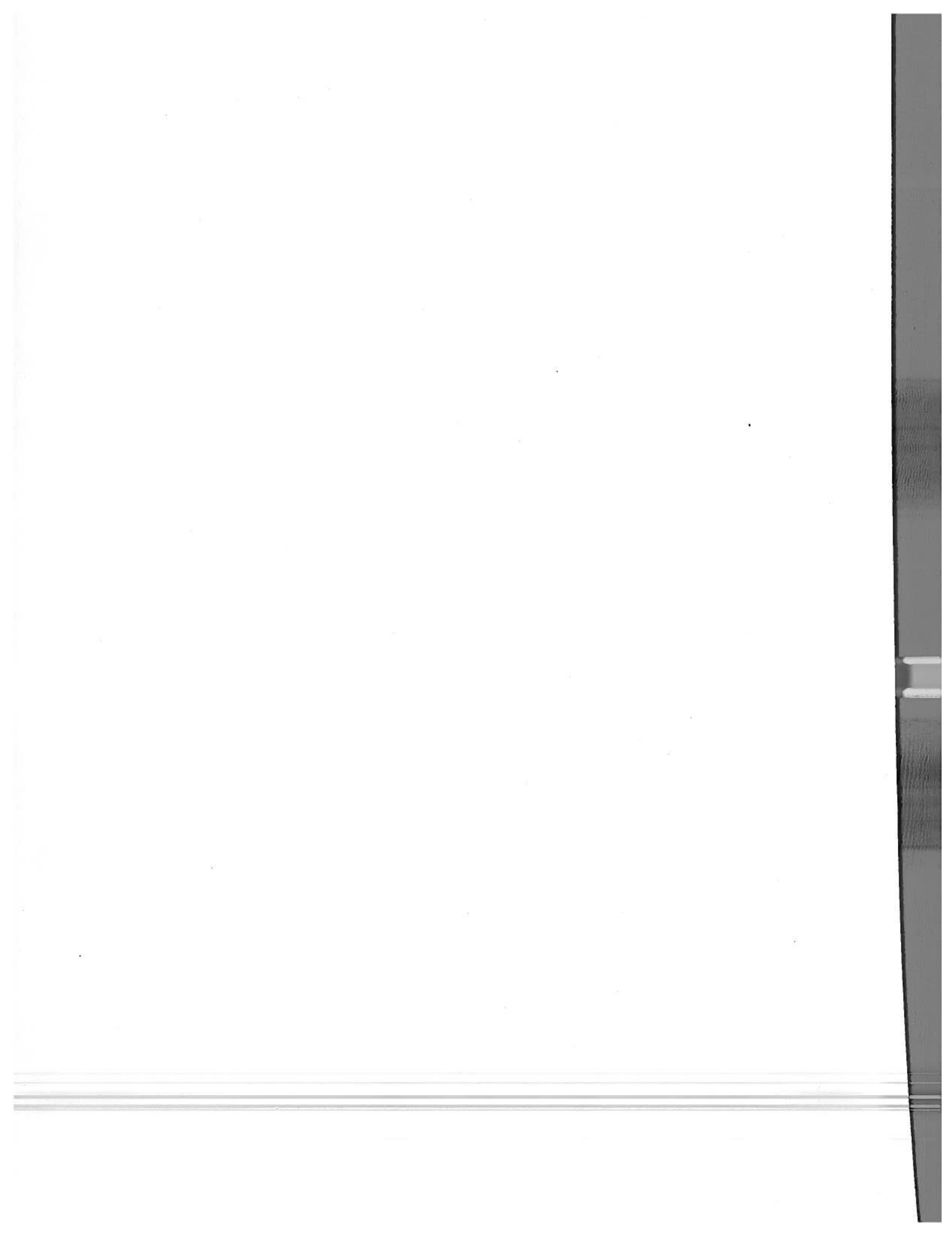
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WASHINGTON STATE DEPARTMENT OF
Natural Resources
Jennifer M. Deicher - Commissioner of Public Lands



FOREWORD

This report presents comprehensive statistics on wood consumption and the characteristics of primary wood processing mills operating in Washington during calendar year 1992. It documents the findings of the thirteenth biennial survey about mill characteristics, wood flows, and the input of raw materials into the state's six primary wood-using industries:

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

The 1992 statistics were compiled through a 1993 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 on questionnaires was missing and estimates were made to have complete data files. In total, this report

provides the best and most reliable estimate of the status of wood-using industries in Washington as of 1992.

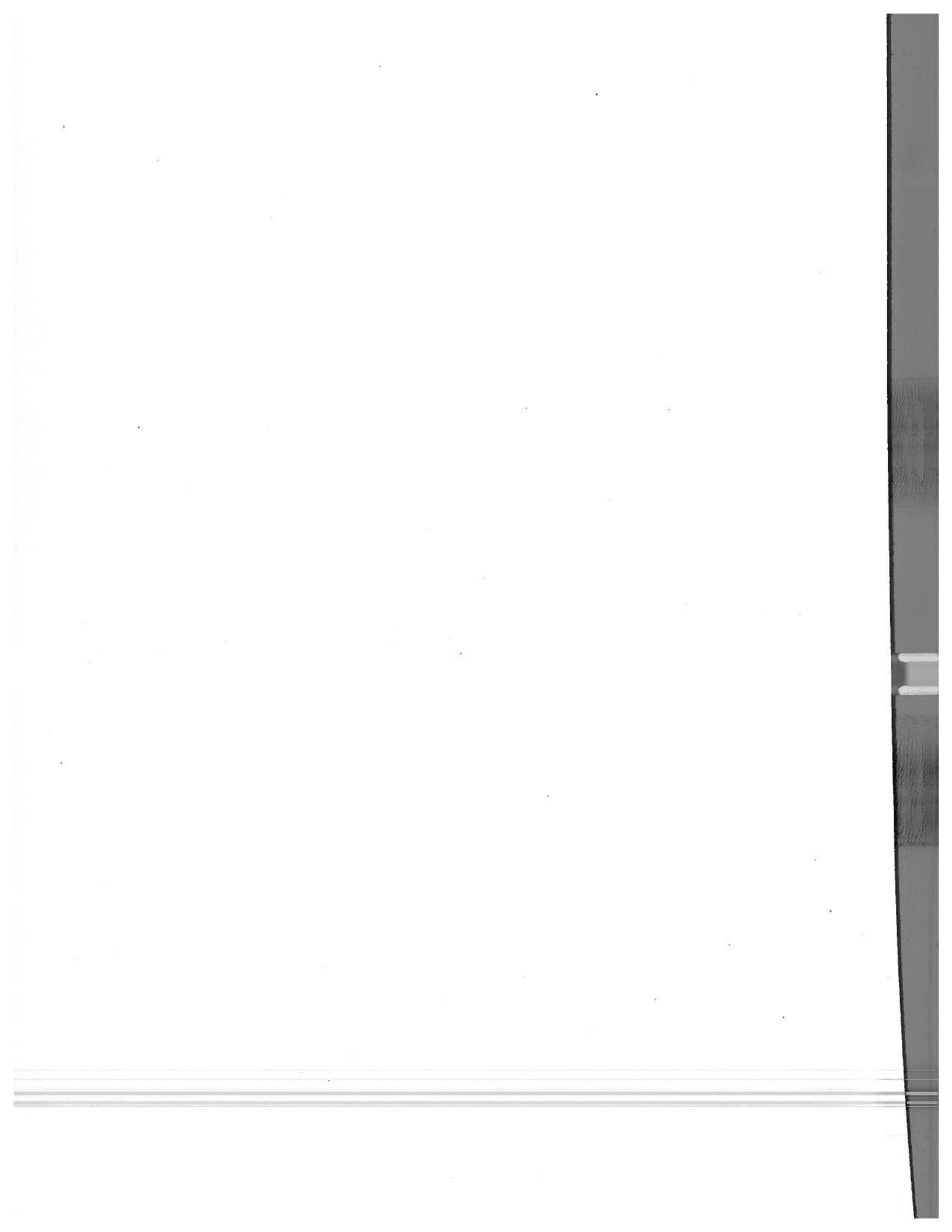
Information about individual mills or companies is confidential. Data that might reveal individual mill identity have been combined with other data to avoid disclosure with respect to residues, log consumption and product production.

Production data were used to provide information on wood requirements for levels of production and to generate residue volumes. Unless otherwise indicated, the use of the term dry refers to oven-dry content, i.e., zero percent moisture content.

The text highlights some statistics presented in the tables. It also provides recent trend information for the period 1982 through 1992. Information about the hardwood industry is provided in the text, since this industry is not described separately in the appendix tables. Wood consumption, and product and residue production are included in the report, since these helps track consumption and production trends.

ABBREVIATIONS

- bf = board feet
- M = thousand
- Mbf = thousand board feet, Scribner log rule
- MMbf = million board feet, Scribner log rule
- sf = square feet
- Msf = thousand square feet
3/8 inch basis
- Square = one hundred square feet
- M sq. = thousand squares
- M tons = thousand tons (a ton being 2,000 pounds)
- S.W.E. = Solid wood equivalent



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Washington Mill Survey 1992



Report Review

Comparison with Past Years

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 survey sectors. Next is a brief discussion of the 1990-92 period, followed by a 10-year review.

Table 1
Number of Operations
Included in the Surveys*

Sectors	<u>1982</u>	<u>1984</u>	<u>1986</u>	<u>1988</u>	<u>1990</u>	<u>1992</u>
Sawmills	169	150	117	118	106	94
Veneer and Plywood	27	28	26	23	23	20
Pulp	21	20	20	21	22	22
Shake and shingle	195	131	117	92	52	50
Post, pole and piling	13	11	13	11	10	11
Log export	<u>124</u>	<u>102</u>	<u>101</u>	<u>86</u>	<u>73</u>	<u>51</u>
Totals	549	442	394	351	286	248

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

1990-1992 in Review

The total number of operations in the forest products industry decreased 13 percent from 1990 to 1992. Log exporters dropped 30 percent; veneer and plywood fell 13 percent; sawmills decreased 11 percent; and shake and shingle declined 4 percent. Meanwhile, the pulp sector remained constant and the post, pole and piling sector increased 10 percent.

Roundwood consumption of the sawmill sector declined 6 percent from 1990 to 1992. Lumber production, however, only declined 2 percent.

The log export sector share of total consumption declined from 41 percent in 1990 to 37 percent in 1992. Log export volume dropped from 2.4 billion in 1990 to 1.8 billion board feet Scribner in 1992 (a 22 percent decline).

Douglas fir accounted for 53 percent of the log consumption in 1992 an increase of two percent over 1990. Douglas fir increased its share of log export log consumption from 63 to 71 percent from 1990 to 1992.

Mills more than two-thirds dependent on a single ownership class for log supply increased from 119 in 1990 to 126 in 1992. The percentage of all operating mills more than two-thirds dependent on a single owner class increased from 42 percent in 1990 to 51 percent in 1992. Mills more than two-thirds dependent on public ownership decreased 23 percent; private ownership increased 23 percent. The federal Endangered Species Act has greatly impacted the management of timber on many public lands and has resulted in lower harvest volumes from public lands. In response the forest industry has turned to the private sector for a larger share of the timber volume processed.

Total residue use decreased from 5.7 million tons in 1990 to 5.6 million tons in 1992. However, the percentage of wood and bark residues used increased from 98 percent in 1990 to 99 percent in 1992. The shake and shingle industry lagged substantially behind with the use of residues at only 35 percent.

1982-1992 in Review

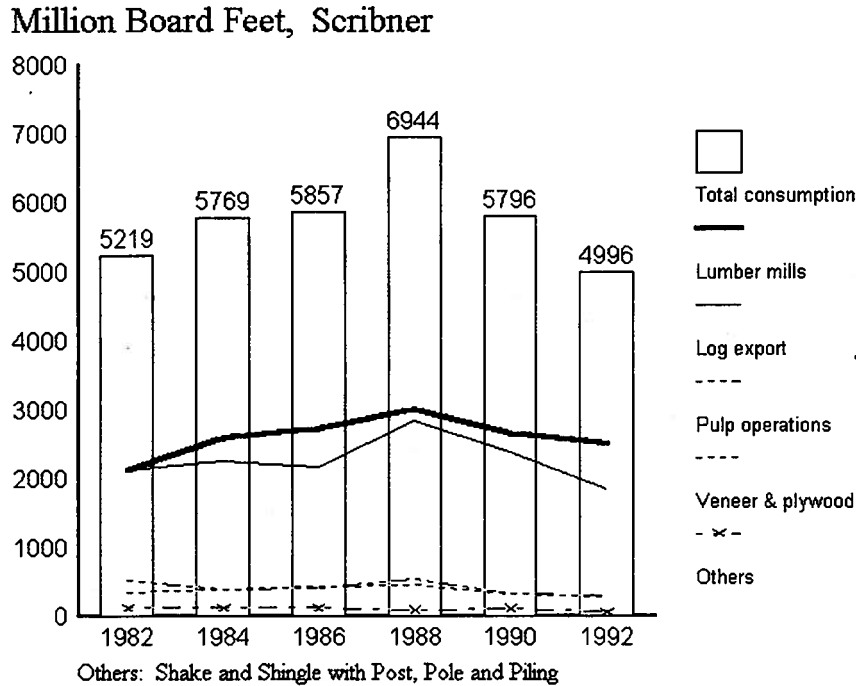
This section compares data developed from the 1982, 1984, 1986, 1988, 1990 and 1992 surveys. During this period the forest industry changed substantially. Consumption peaked at slightly more than 6.9 billion board feet in 1988; and the low was at 5.0 billion board feet in 1992. The lumber industry has been the primary consumer of logs, although slightly exceeded by log exports during the 1982 recession. The sawmilling and log export sectors together accounted for over four-fifths of the log consumption in each of the survey years 1982-1992. For the years 1990 and 1992, these two sectors accounted for more than 85 percent of wood consumption.

The lumber sector accounted for 41 percent of consumption in 1982. By the end of the decade, lumber accounted for 50 percent of consumption.

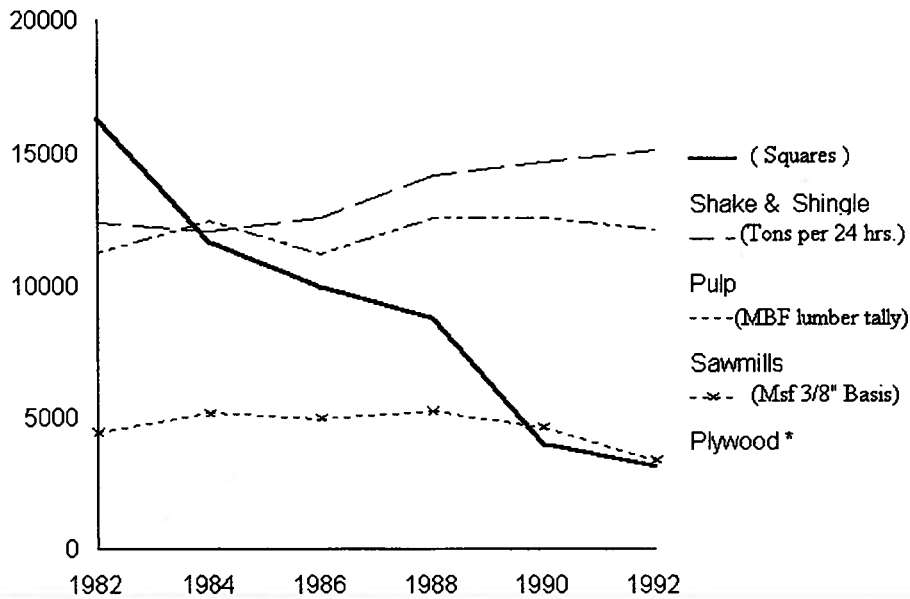
Installed shift output capacity has fluctuated over time. For the lumber sector it peaked at 12.6 thousand board feet per eight-hour shift in 1990 and declined to 12.1 in 1992. The pulp industry reached a new high for 24-hour capacity at 15,118 bone dry tons. This is an increase of 3 percent above 1990. 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 1992 it was 2.4 million square feet, 44 percent lower.

The shake and shingle industry has sustained a major decline in capacity. In 1982 the capacity was at 16.3 thousand squares. It was at 4.0 thousand squares in 1992, a capacity only one-fourth of that 10 years earlier. This industry greatly depends on the use of old growth western redcedar and capacity is expected to continue to decline due to the increasing scarcity of old growth western redcedar available for harvest.

Total Log Consumption by Year and Industry



Installed Shift Output Capacity



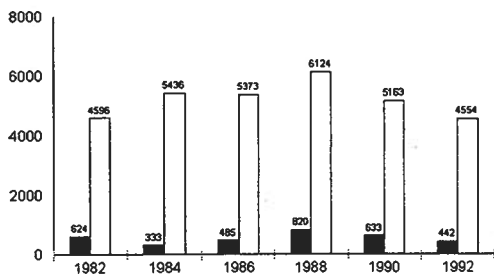
* Capacity includes total capacity for veneer only and layup only operations, but only the veneer in the veneer and layup plants.

Note

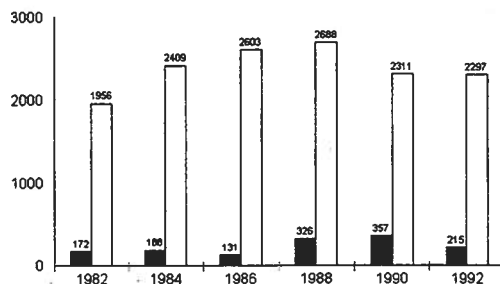
Roundwood consumption -- comparing sound with utility grades -- is shown in total and by sector. Utility logs accounted for 9 percent of total log consumption in 1992. For sawmills, 9 percent of consumption was utility grade, whereas for the log export sector few utility-grade logs were exported. Shake and shingle used 9 percent utility grade in 1992, but this contrasts in a substantial way compared to 1990 when slightly more than half of this sector's volume was utility grade. The pulp industry used 70 percent utility grade logs in 1992 which is a slightly higher percentage than the 61 percent in 1990, but considerably lower than the 86 percent in 1988.

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

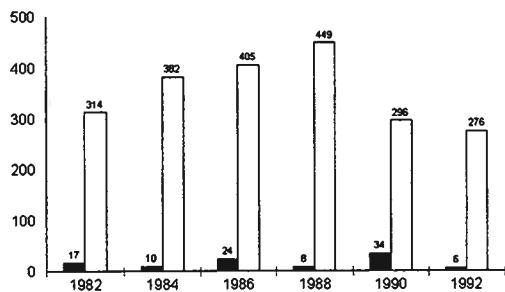
STATE TOTAL



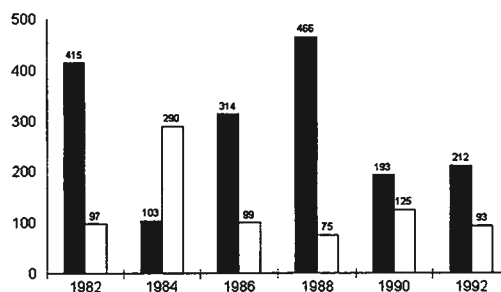
LUMBER



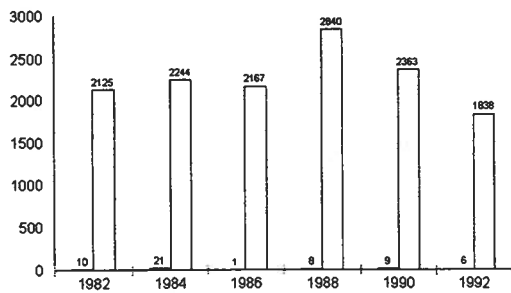
VENEER & PLYWOOD



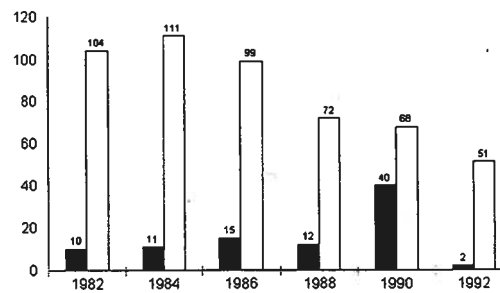
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LOG EXPORT



SHAKE & SHINGLE;
POST, POLE & PILING



■ UTILITY LOGS □ SOUND LOGS

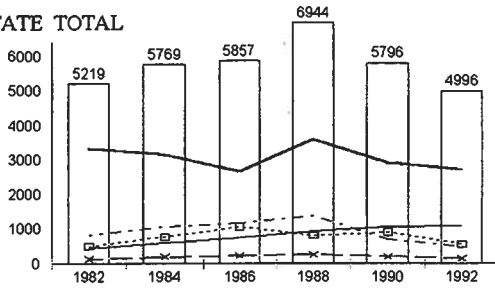
Note

Log consumption by owner class shows that forest industry is the single most important 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 primary supplier of logs to the lumber, pulp and log export sectors.

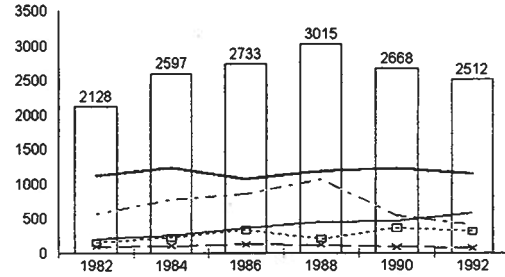
Historically, the national forests have been an important source of logs for the veneer and plywood industry. In 1986 nearly half of this industry's consumption came from the national forests. In 1992, however, it had declined to less than one-fourth. Since 1988 the forest industry has been the most important single log source for the veneer and plywood sector.

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

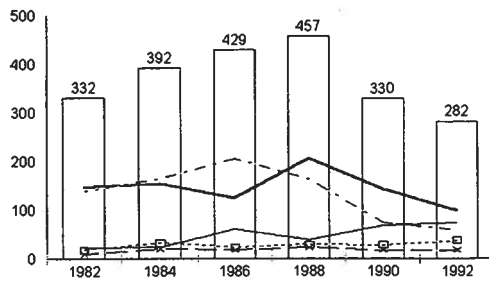
STATE TOTAL



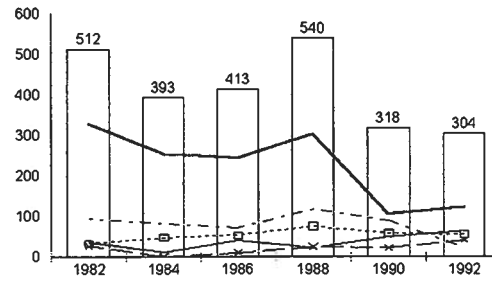
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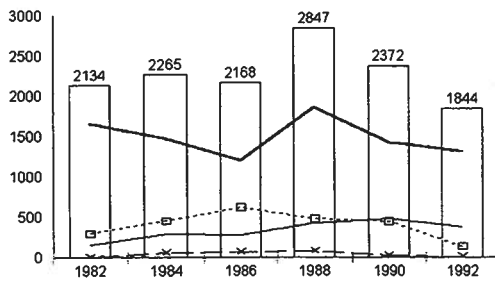
VENEER & PLYWOOD



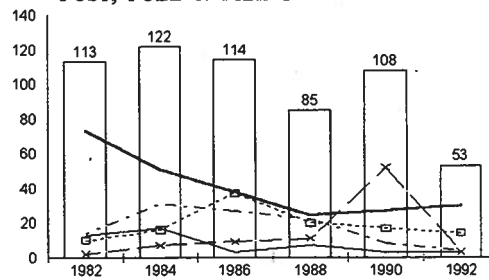
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LOG EXPORT



SHAKE & SHINGLE
POST, POLE & PILING



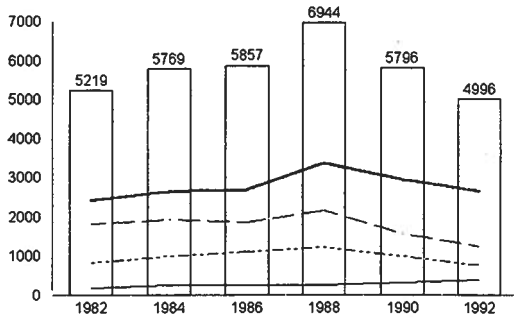
Total
 Forest Industry
 National Forest
 State
 Misc Private
 Other Public

Note

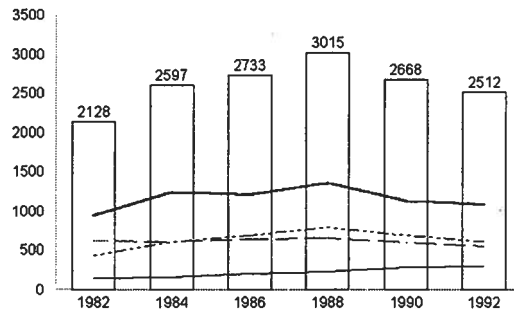
Douglas fir was the most important single species throughout the 10-year period with about half the consumed volume. Hemlock has been a strong second place species with about one-fourth of the total. Together they account for over three-fourths of log consumption. Douglas fir has been the dominant species for the lumber, the veneer and plywood, and log export sectors. Hemlock has dominated the pulp industry, at least in terms of reported log consumption. Western redcedar has been the primary species for the shake and shingle industry. The post, pole and piling industry is predominately a user of Douglas fir. For the log export market, hemlock was first in the 1970s, but Douglas fir has been first during the 1980s and to the present.

Log Consumption by Species (Million board feet, Scribner)

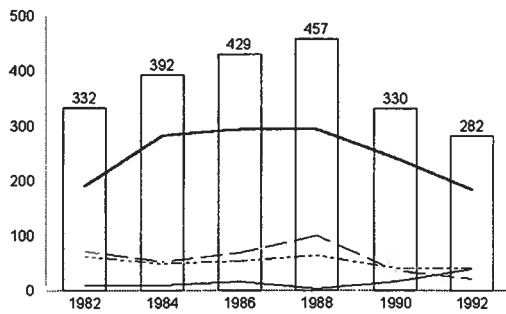
STATE TOTAL



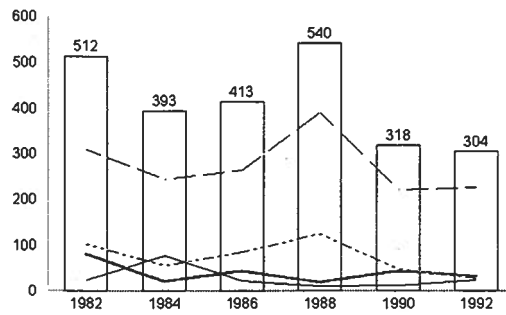
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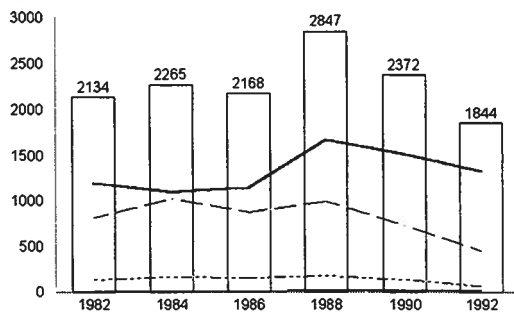
VENEER & PLYWOOD



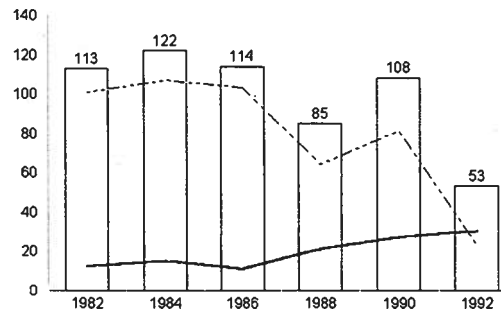
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LOG EXPORT



SHAKE & SHINGLE;
POST, POLE & PILING



TOTAL
 DOUGLAS FIR
 HEMLOCK
 OTHER CONIFERS
 HARDWOODS

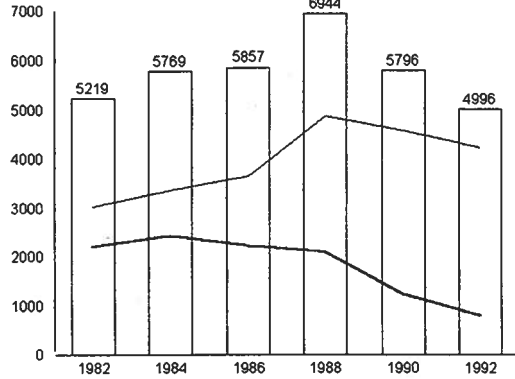
Note

Timber over 100 years of age was the dominant harvest age class through 1980. With the old growth timber a declining resource, young growth timber has become increasingly important. This trend will continue because under current forest management rotations are much shorter than 100 years.

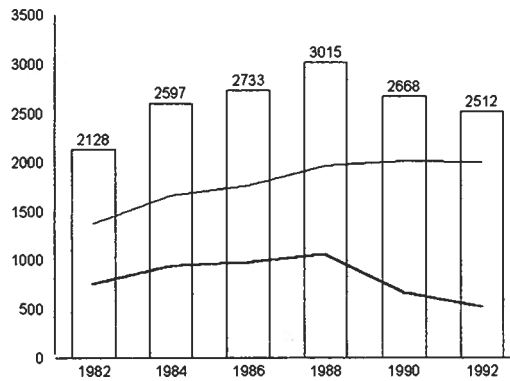
The shake and shingle industry is combined with the post, pole and piling industry in the figure on the facing page, although the two industries are very different in the age of timber consumed. The shake and shingle industry consumed primarily old-growth western redcedar. For 1992, this industry's use of old-growth was in excess of 92 percent. The post, pole and piling industry uses primarily young-growth Douglas fir, and virtually all of the wood consumed by this industry was less than 100 years of age in 1992.

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

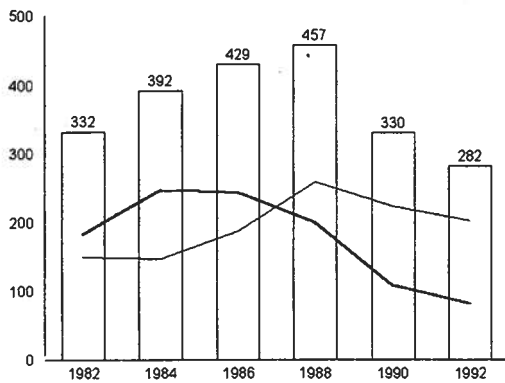
STATE TOTAL



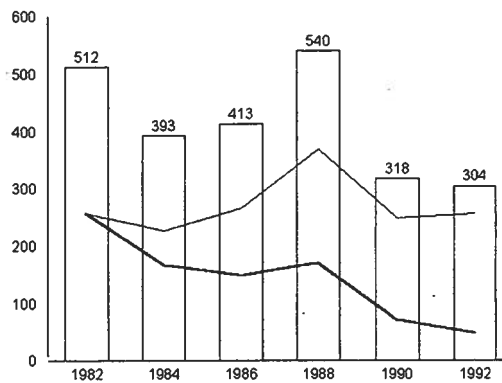
LUMBER



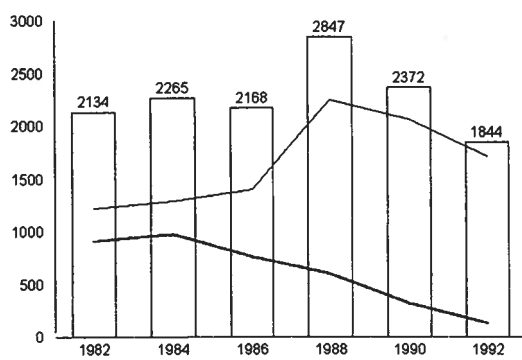
VENEER & PLYWOOD



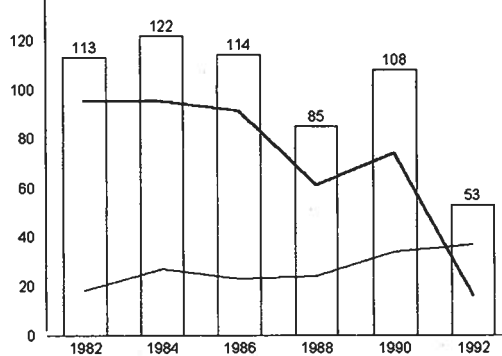
PULP



LOG EXPORT



SHAKE & SHINGLE,
POST, POLE & PILING



Total
 Old growth
 Young growth

Note

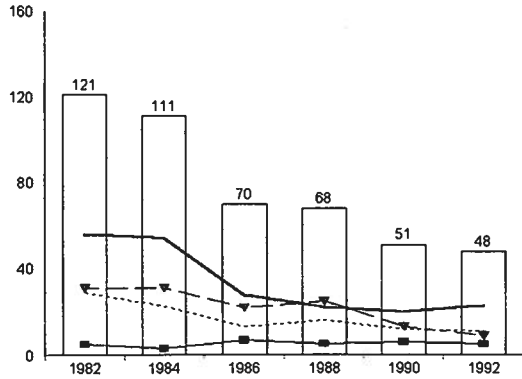
Mill dependency is shown by graphing mills more than two-thirds dependent on a single ownership. Other private, with 22 percent of the harvest in 1992, was the most important owner class for the lumber industry in this respect, largely because of the dominance of log export activities by the forest industry. In 1988 the national forests had a higher dependence while providing 20 percent of the log volume consumed, but environmental restrictions on the national forests have had substantial impacts in recent years. The national forests only provided 10 percent of the harvest in 1992.

Mill dependence in the shake and shingle industry has declined dramatically because removal of old growth timber from forest industry lands has declined substantially. In 1982 the forest industry provided nearly 70 percent of the shake and shingle industry's wood consumption compared with 20 percent in 1992. Old-growth western redcedar, the mainstay of the shake and shingle industry, has become scarce.

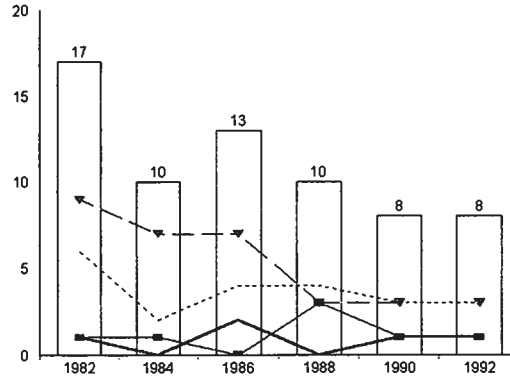
The forest industry is the dominant supplier to the log export and the post, pole and piling sectors. Since posts, poles and piling are mainly a young-growth wood use and tree form is very important, it is not surprising that the forest industry is the primary source of timber for this industry.

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

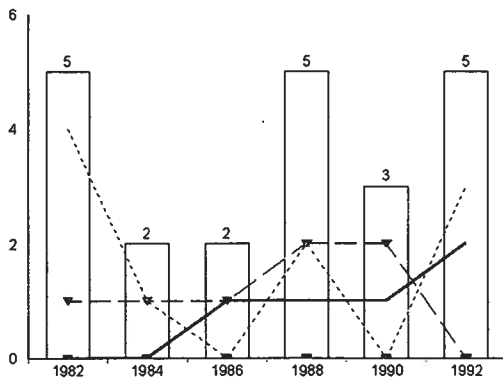
LUMBER



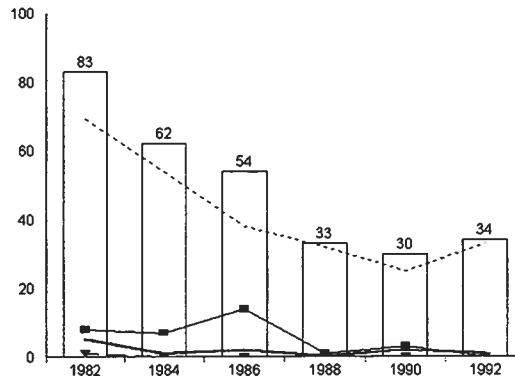
VENEER & PLYWOOD



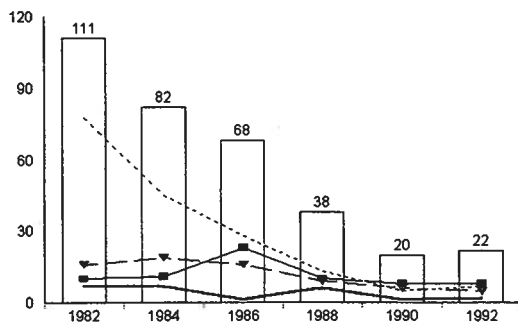
PULP



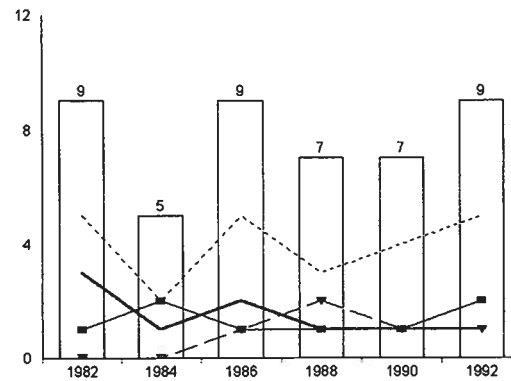
LOG EXPORT



SHAKE & SHINGLE



POST, POLE AND PILING



Total
 National Forest
 State/Other Public
 Forest Industry
 Other Private

Note

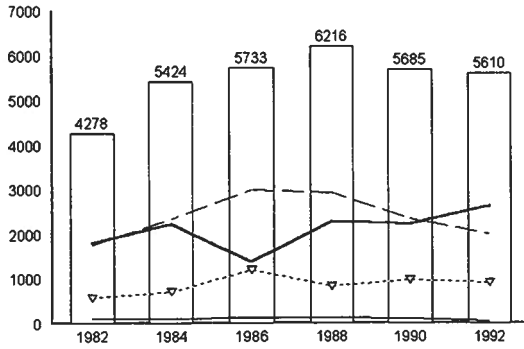
During the 1982-1992 period, residue production has fluctuated from a low of 4.3 million tons in 1982 to a high of 6.2 million tons in 1988. Fuel for energy uses have generally accounted for the largest share of residue uses during this period, but pulp use became more important in 1992.

Residues are generally discussed in terms of dry weight, but the accepted industry convention is to have residues adjusted to "the oven-dry weight." The phrase "dry weight" will be used throughout this report.

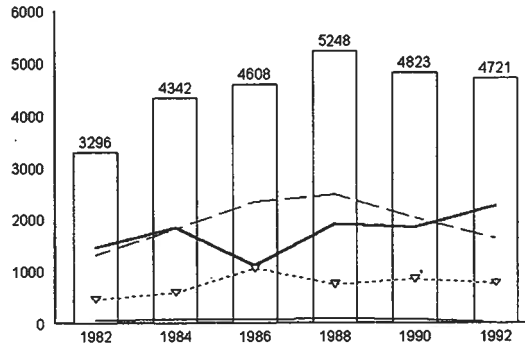
Lumber manufacturing is the primary source of residues with nearly 85 percent of the residues produced in 1992. In terms of residue use in 1992, pulp use accounted for nearly half of the total; fuel uses were second with over one-third of the total. Although not shown, pulp use accounted for nearly 60 percent of the wood residue total use.

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

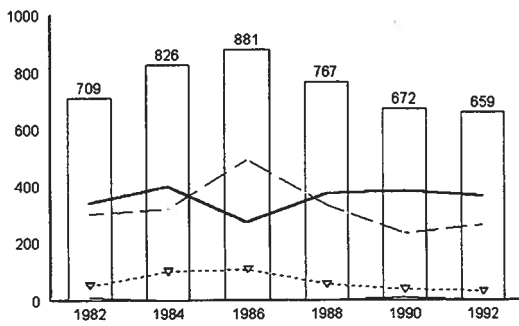
STATE TOTAL



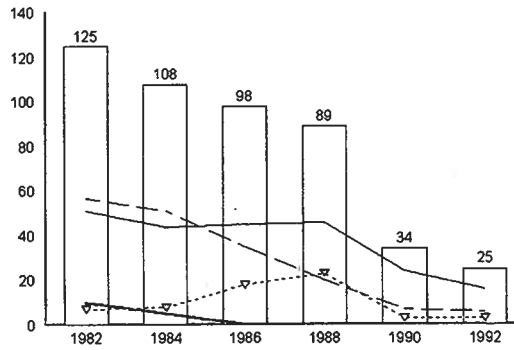
LUMBER



VENEER & PLYWOOD



SHAKE AND SHINGLE



Total
 Fuel
 Pulp and Board
 Other uses
 Unused

Table 2

Report Year and Table Number Cross Index

(Between the 13 Washington mill survey reports [1])

1978 thru 1992	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 1992

* Contains part of same information

Table 2 (continued)

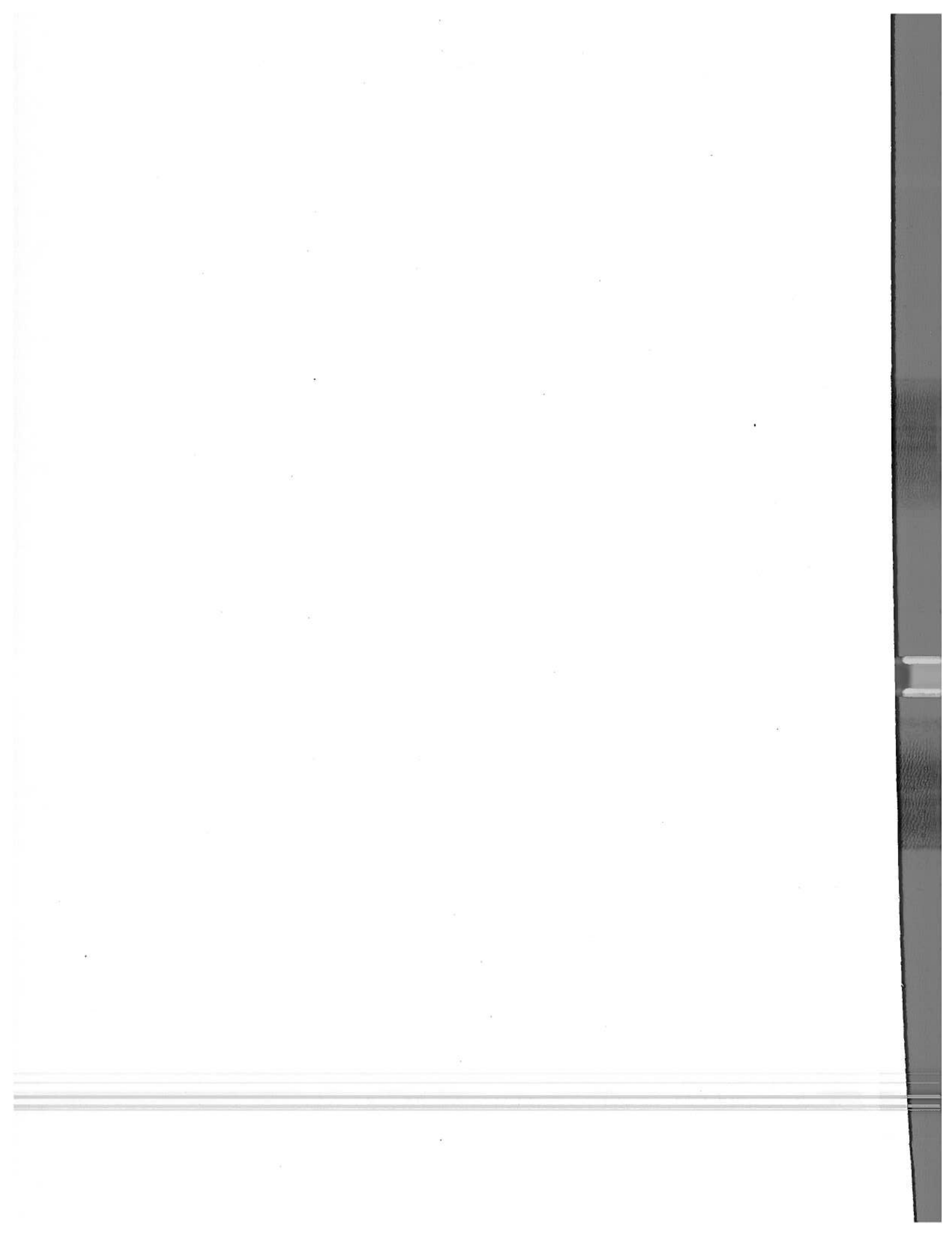
Report Year and Table Number Cross Index

(Between the 13 Washington mill survey reports [1])

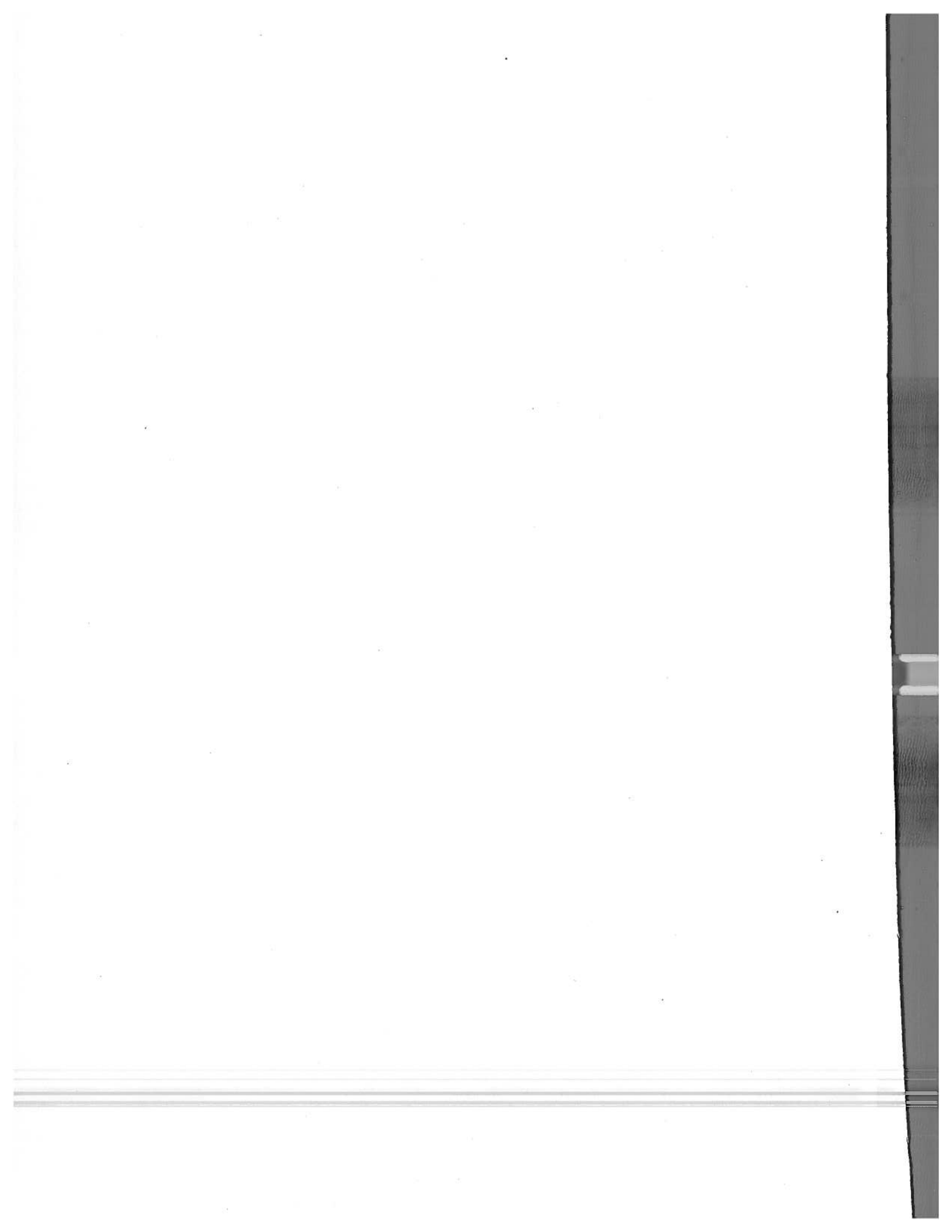
1982 thru 1992	1972 and 1980	1976	1974	1970 and 1972	1968
41	41	42	41	39	36
42	42	43	42	40	37
--	43	44	43	41	38
--	44	45	44	42	39
43	45	46	45	43	40
--	46	47	46	44	41
--	47	48,49	48,49*	46,47*	43,44*
--	48	50	50	48	45
44	49	51	51	49	46
--	50	52	52	50	47
45	51	53	--	--	--
46	52	54	53	51	48
47	53	55	54	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 1992

* Contains part of same information



Industry Overview



1992 HIGHLIGHTS

Mills operating in Washington in 1992 totaled 248.

Analysis of milling capacity and number of mills by type are provided in Table 3.

Table 3
Mills by Type
and Milling Capacity

<u>Type of mill</u>	<u>Number of mills</u>	<u>Milling capacity</u>
Sawmills	94	12.1 Mmbf (8-hour basis)
Log export	51	not applicable
Veneer, plywood	20	2.4 Mmsf (3/8" basis), 8-hour veneer basis
Pulp	22	15.1 M tons (24-hour basis)
Shake, shingle	50	3.2 M sq. (8-hour basis)
Post, pole & piling	11	69.7 Mmbf (peeling-yearly)
Total	248	

The 39 largest sawmills which are Class A (120,000+ board feet of lumber tally capacity per eight-hour shift) had 80 percent of the total eight-hour shift sawmilling capacity. During 1992 the Class A sawmills consumed 77 percent of the logs processed and produced 81 percent of the lumber manufactured.

Wood Consumption

- ◆ 5.0 billion board feet of roundwood logs were consumed by the industry. Sawmills accounted for 50 percent of the volume; log export took 37 percent.
- ◆ 66 million board feet (log scale) of peeler cores, cants, blocks, bolts and miscellaneous peeled products were consumed.
- ◆ 8.3 million tons of chips, sawdust and shavings were consumed by the pulp industry.
- ◆ 90 percent of total wood fiber used by the pulp sector was in the form of chips, sawdust, and shavings.
- ◆ 84 percent of timber consumption was young growth (less than 100 years old)
- ◆ 91 percent of all log volume used was from sound logs.
- ◆ 53 percent of roundwood volume was Douglas fir; 25 percent hemlock; 5 percent western redcedar and 5 percent ponderosa pine.
- ◆ 6 percent of all log volume consumed was imported from outside of Washington; 73 percent of this volume came from Oregon.
- ◆ 54 percent of log volume came from forest industry timberlands; 22 percent from farmer and miscellaneous private lands; 11 percent from state-managed lands; 10 percent from national forests; and the remaining 3 percent from other public owners.
- ◆ 65 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; 18 percent from Mt. Baker-Snoqualmie and 18 percent from the Olympic.

Table 4
Roundwood Use by Industry

<u>Industry</u>	<u>Volume</u> (MMBf)	<u>Roundwood</u> Percent
Sawmills	2,512	50
Log export	1,844	37
Pulp	304	6
Veneer & plywood	282	6
Post, pole & piling	36	1
Shake & shingle 17	<1	
	<u>4,995</u>	<u>100</u>

Leading counties in Roundwood use were:

Cowlitz	980 MMBf
Grays Harbor	673 MMBf
Pierce	652 MMBf
Snohomish	536 MMBf

RESIDUES

- ◆ 5.6 million tons of wood and bark residues were generated. The sources by sector are shown in Table 5. Sawmills were the primary source.
- ◆ 76 percent of residue was wood; 24 percent was bark. Of wood residues, 99 percent were used. Of bark residues, 99 percent were used. Unused were 48,290 tons of wood and bark, one percent of the total residues.
- ◆ 57 percent of wood residue went for pulp; 26 percent for fuel; 16 percent other uses; one percent was unused.

Table 5
Wood and Bark
Residue Production by Mill Type

<u>Mill Type</u>	<u>Million tons</u>	<u>Percent</u>
Sawmills	4.7	84
Veneer & plywood	0.7	12
Shake & shingle	<0.05	<1
Other *	0.2	4
Total	<u>5.6</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 13 percent from 1990 to 1992 while log consumption dropped 14 percent. Yet, Washington remains one of the leading timber industry states, producing about 10 percent of the nation's lumber, five percent of the nation's paper and board production, six percent of the nation's plywood and providing about 50 percent of the nation's log exports.

Washington's total timber harvest for 1992 was 5.0 billion board feet¹ (Figure 1). However, the mill survey for 1992 reports Washington's harvests at only 4.7 billion board feet. This means the Washington timber consumption reported in the mill survey is about 6 percent lower than the actual timber harvest. This difference may be attributed to several factors. About 2.4 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 are not included in the survey process (only final consumer firms within Washington State are surveyed), 2) possibly some mills were missed in the survey, and 3) reported consumption by some mills may have been lower than actual consumption.

The lumber, plywood and pulp information in Figure 1 is from the Washington Mill Survey series. Data for a 10-year period are shown. Lumber production in 1982 was 2.8 billion board feet lumber tally, rose to 4.4 billion in 1988 and declined about 10 percent to approximately 4 billion in 1992. Plywood production in 1982 was 1.3 billion square feet (3/8" basis) and rose to 1.8 billion in 1986 and then declined back to 1.3 billion square feet. However, from a high of 28 mills in 1984, the number of mills has declined to 20 mills, a 25 percent decline in the number of mills. Wood pulp production increased from 3.2 million tons in 1982 to 4.6 million tons in 1992, a 44 percent increase.

Total wood use by Washington forest industry sectors is shown in Figure 2. This information is from the Washington Mill Survey series and, as shown, has the log consumption for the shake and shingle and post, pole and piling sectors combined and labeled as "Others." These two sectors combined only consumed 53 million board feet (one percent of all roundwood consumed).

¹ Source: Washington timber harvest 1992. Department of Natural Resources, Olympia, WA

Figure 1
Output of Major Timber Products for Washington

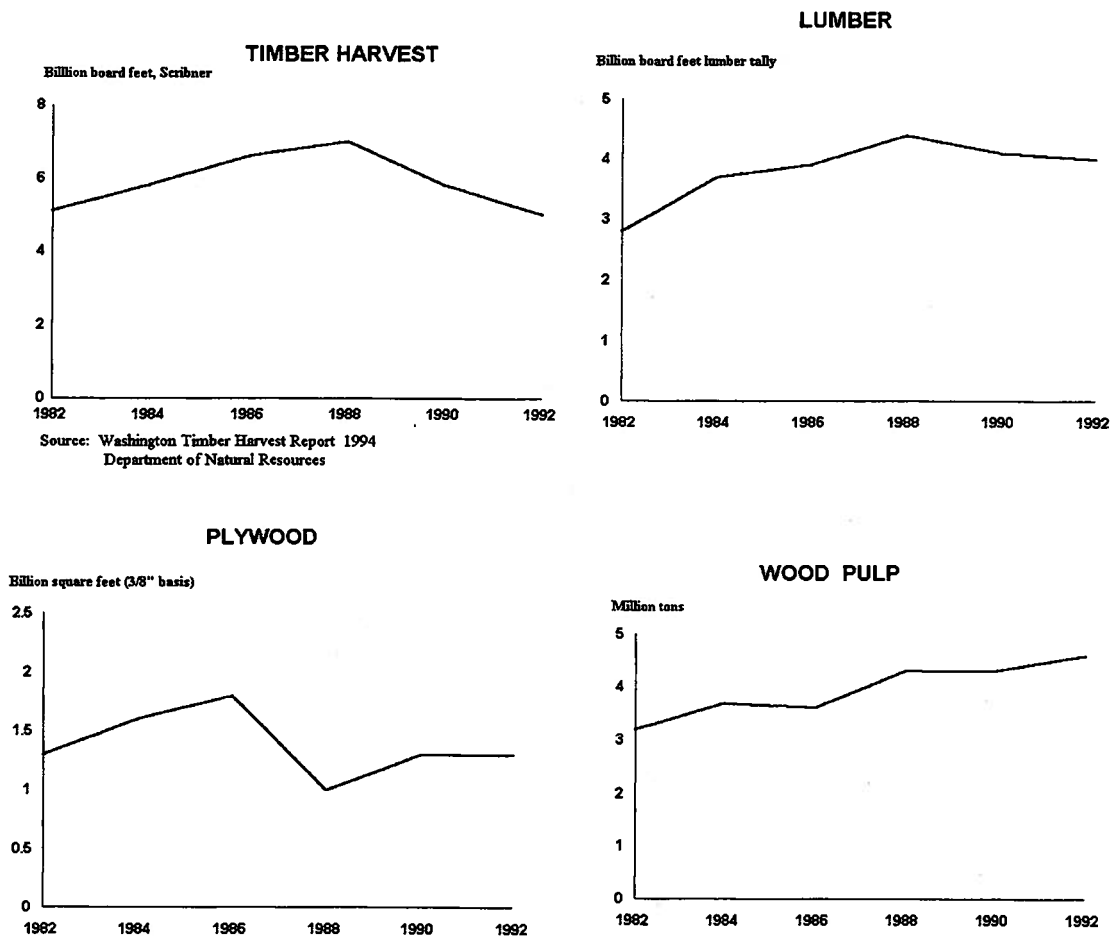


Figure 2
Washington Log Consumption by Major Industries

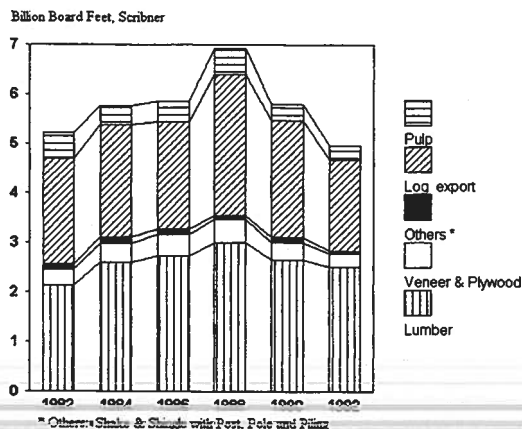
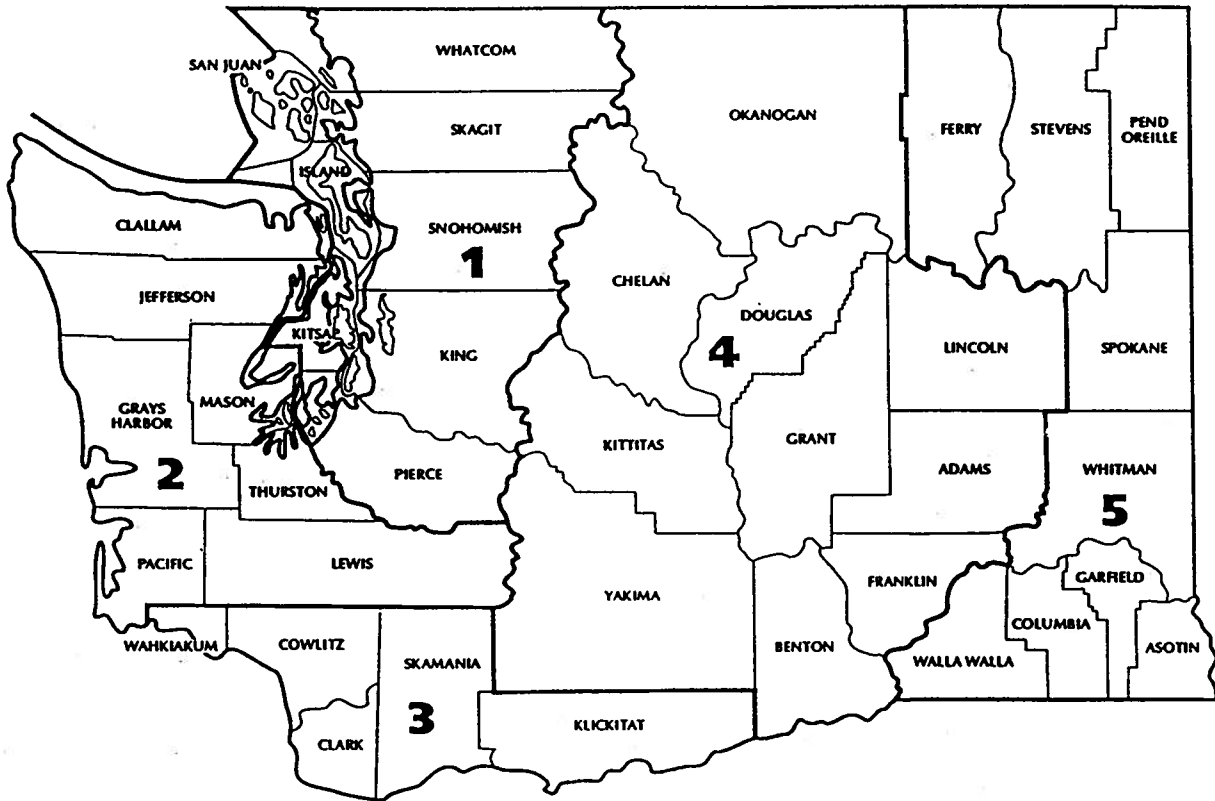


Figure 3
The Five Economic Areas Encompassing 39 Counties



The five Economic Areas used in this report 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 were 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. Where possible, the 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 1992, Washington's primary forest products industries consumed 5.0 billion board feet of logs, 66 million board feet of other wood and 8.3 million tons of chips and wood residue. Sawmills consumed 50 percent of the total roundwood, log exports accounted for 37 percent while the other four sectors accounted for the remaining 13 percent. Figure 4 illustrates the total log consumption by industry sector.

Sound logs comprised 91 percent of the total roundwood with sawmills consumed 50 percent and log exports using 40 percent. Utility and cull logs accounted for nine percent of total roundwood with the lumber industry consuming 49 percent and the pulp industry 48 percent of the utility and cull volume.

The 8.3 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 four million board feet of roundwood logs. Most chips were by-products of lumber manufacturing operations.

Figure 4
Log Consumption by Type of Industry

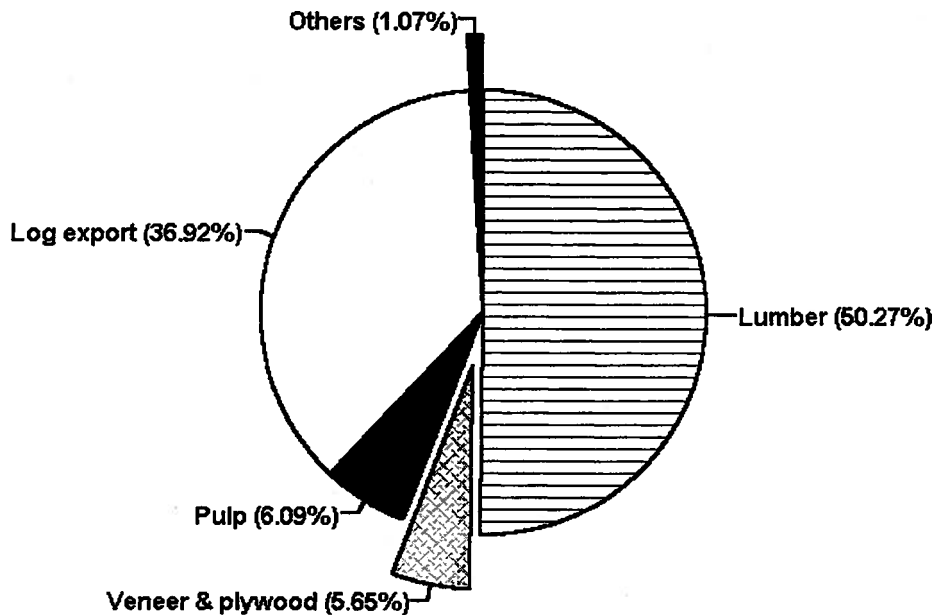


Table 6
Log Supply by Owner Source

<u>Ownership</u>	<u>Volume</u> (Mbf)	<u>Log Supply</u> (percent)
State	558,586	11
National Forest	496,117	10
Bureau of Land Management	5,615	*
Other Public	137,094	3
<hr/> Total public	<hr/> 1,197,412	<hr/> 24
Forest industry		
Own wood supply	1,208,503	24
Other wood supply	1,486,135	30
Farmer & misc. private	1,103,787	22
<hr/> Total private	<hr/> 3,798,425	<hr/> 76
<hr/> All owners	<hr/> 4,995,837	<hr/> 100

*Less than 0.5 percent

Table 7
Log Flows Measured from National Forests

<u>National Forest</u>	<u>Volume</u> (Mbf)	<u>Log flow</u> (percent)
Gifford Pinchot	144,503	29
Mt. Baker-Snoqualmie	91,411	18
Olympic	89,762	18
Wenatchee	67,293	14
Colville	42,810	9
Okanogan	34,930	7
Other	25,408	5
<hr/> All National Forests	<hr/> 496,117	<hr/> 100

Table 8

Dependence for Timber Supply

Mills Over Two-Thirds Dependent *

<u>Ownership</u>	<u>Mills Number</u>	<u>Dependence Percent</u>
State	12	4.8
National forest	18	7.3
Bureau of Land Management	1	0.4
Other public	3	1.2
<hr/> Total public	<hr/> 34	<hr/> 13.7
Forest industry:		
Own wood supply	12	4.8
Other wood supply	50	20.2
Farmer & misc. private	30	12.1
<hr/> Total private	<hr/> 92	<hr/> 37.1
All owners	126	50.8

* Dependence for timber supply by ownership class is determined by totaling individual mills obtaining more than two-thirds of their logs from a single ownership class. Percentages are determined based on a total of 248 mills in the state.

At the state level, Douglas fir (53 percent) and hemlock² (25 percent) were the dominant species consumed by the industry during 1992. In Western Washington the three major species (in order of volume consumed) were Douglas fir, hemlock and western redcedar. Douglas fir and ponderosa pine were the major species in Eastern Washington. Hardwoods statewide accounted for seven percent of the volume consumed.

Most sectors of the industry use several species. Four sectors, however, have a species dependence. The post, pole and piling industry was 84 percent dependent and the veneer and plywood industry 65 percent dependent on Douglas fir, the pulp industry's consumption of roundwood was 74 percent dependent on hemlock. The shake and shingle industry was almost exclusively dependent on western redcedar.

Washington supplied 94 percent of the industry's log consumption. Oregon contributed four percent, with most (65 percent of this volume) consumed in the Lower Columbia area.³

² Western hemlock and mountain hemlock have been combined under the generic designation of hemlock in this report.

³ 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 sectors of the industry generated 5.6 million tons of wood and bark residues in 1992. Of this amount, the sawmill, and veneer and plywood sectors provided 96 percent of the total and of their share, 99.4 percent was used.

Use

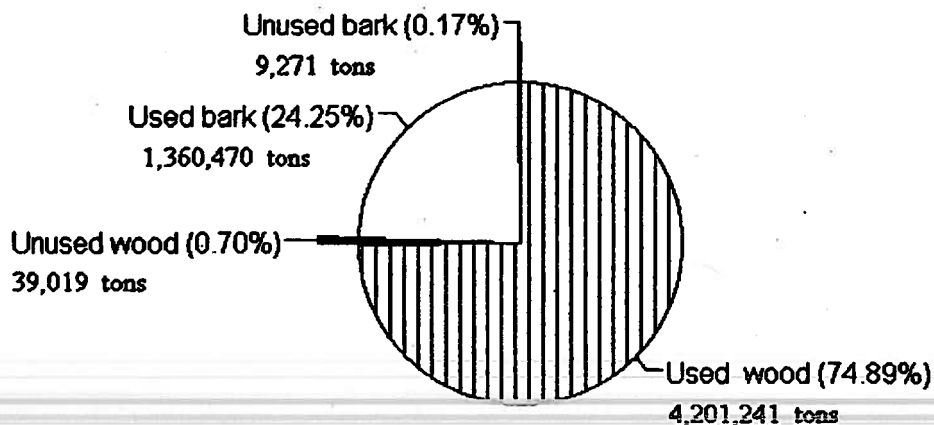
A significant achievement of the forest products industry is the relatively high use of residues, 4.2 million tons of wood and 1.4 million tons of bark were consumed. Of all residues produced, 99.1 percent were used. The pulp industry accounted for 2.4 million tons (43 percent) of all residues used while fuel use consumed two million tons (36 percent) of all residues.

Table 9
Wood Residue Use by Industry

<u>Wood residue use</u>	<u>Tons</u> (thousands)	<u>Residue</u> Percent
Pulp	2,423	57
Fuel	1,084	26
Other uses	694	16
Unused	39	1
<hr/>		
All wood residue	4,240	100

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

Figure 5
Relative and Absolute Residue Use



HARDWOOD INDUSTRY

Hardwoods accounted for 7.4 percent of total log consumption. Red alder, bigleaf maple and black cottonwood were the predominant hardwood species used by the Washington wood products industry. Hardwoods were used by sawmills, veneer mills, and pulp mills. About five percent of the hardwood log volume was exported as logs.

In 1992, 16 sawmills, two veneer operations, and one pulp mill used hardwood logs as an input for their products. Of the 16 sawmills, nine used hardwoods for 90 percent-plus of their log consumption. Mills using hardwood logs, with the exception of three sawmills, were located in western Washington. The counties where the hardwood using sawmills were located are listed in Table 10.

Table 10
Sawmills Using Hardwoods
by County

<u>County</u>	<u>Hardwood Using Sawmills</u>
Cowlitz	2
Ferry	1
Jefferson	1
Kitsap	1
Lewis	4
Pacific	1
Pend Oreille	1
Pierce	1
Skagit	1
Snohomish	2
Walla Walla	1
<hr/> Total	<hr/> 16

WOOD CONSUMPTION

Total hardwood log consumption was 369 million board feet in 1992 (Table D-8). Of this volume, 291 million board feet were used in sawmilling operations and 17 million board feet were exported. Total hardwood consumption in 1992 was 15 percent above 1990 consumption, although total log consumption declined 14 percent. In addition, 293,065 bone dry tons of hardwood chips from roundwood chipping plants were consumed by the pulp industry.

The sawmill sector was the dominant sector using hardwood logs in 1992 and consumption was up four percent from 1990. Hardwoods were 12 percent of the sawmill sector's total consumption for 1992. About 90 percent of hardwood log volume consumed by sawmills was used by sawmills 90-percent-plus dependent on hardwoods. The A and B class sawmills (80,000+ board feet capacity per eight-hour shift) using hardwood logs accounted for 80 percent of the total hardwood log consumption by the sawmill sector.

HARDWOOD SUPPLY

Twenty counties in Washington along with out-of-state sources provided logs to the hardwood sawmilling industry. The hardwood volume was provided primarily from Western Washington counties; but with 14 percent from out-of-state sources. Clark, Cowlitz, Lewis, Snohomish and Skagit counties supplied about half of the hardwood log volume for sawmills. The nine sawmills which were 90 percent-plus dependent upon hardwoods in 1992 consumed 259 million board feet, a seven percent decrease from 1990.

Table 11
Sawmill Hardwood Log Volume by County:
Mills 90% + Dependent on Hardwoods

<u>County of origin</u>	<u>Volume Mmbf</u> Scribner	<u>Log supply</u> (Percent)
Lewis	41.4	16
Clark	26.3	10
Snohomish	24.4	9
Skagit	21.7	8
Cowlitz	19.4	7
Grays Harbor	14.3	6
Thurston	13.5	5
Pacific	13.2	5
Clallam	13.1	5
King	6.6	3
Pierce	4.2	2
Whatcom	4.0	2
Others	22.0	8
Out-of-State	35.3	14
<hr/>	<hr/>	<hr/>
Total	259.4	100

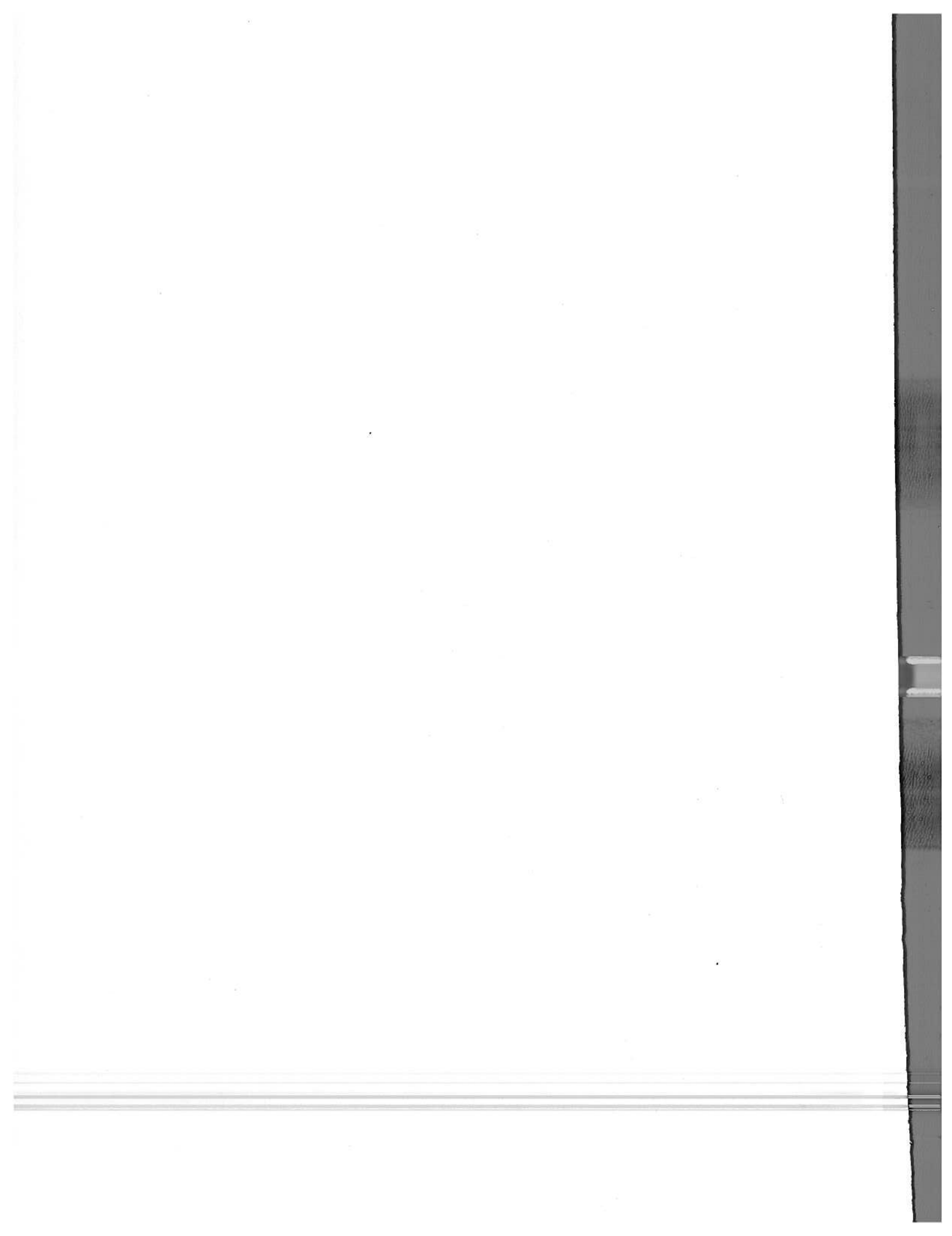
OWNERSHIP

The hardwoods consumed by sawmills 90 percent-plus dependent on hardwoods came largely from private ownerships. For 1992, the private lands provided in excess of 80 percent of the total to these sawmills. Forest industry lands were the source of 45 percent of the roundwood volume used while the farmer and miscellaneous private owners increased their share substantially since 1990 and for 1992 accounted for over one-third of the total hardwood roundwood volume.

Table 12
Sawmill Hardwood Log Volume by Ownership:
Mills 90% + Dependent on Hardwoods

<u>Ownership</u>	<u>Volume Mmbf</u> Scribner	<u>Log supply</u> (Percent)
State	38.9	15
National forest	0.5	<.5
Other public	4.7	2
<hr/>		
Total public	44.1	17
Forest industry		
Own wood supply	34.6	13
Other wood supply	83.9	33
Farmer & misc. private	96.8	37
<hr/>		
Total private	215.3	83
<hr/>		
All owners	259.4	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 respondent. For other products the following conversion factors were used.

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 = .0885 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 (2,000 pounds) = 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

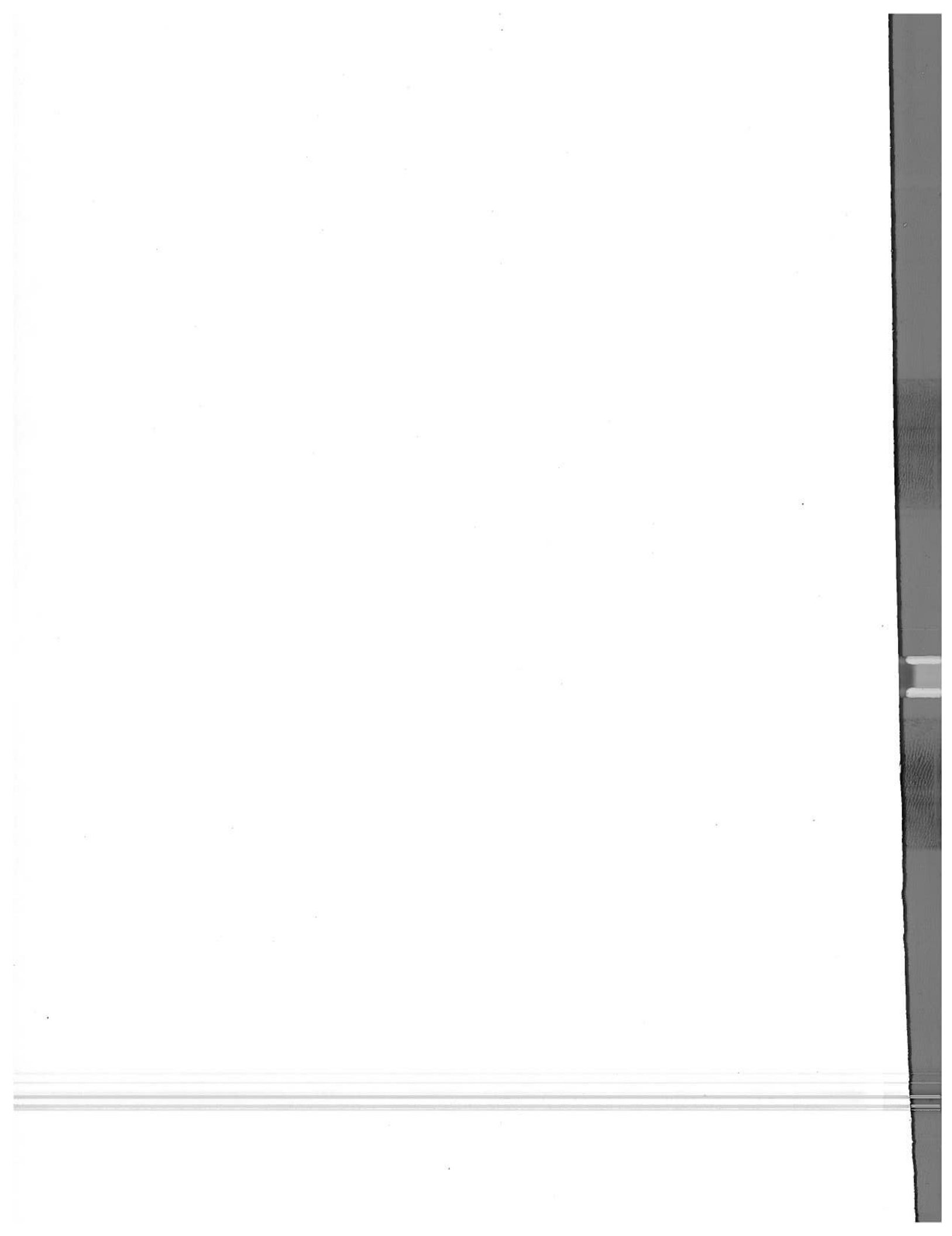
1 cubic foot = 6 board feet

All Industries

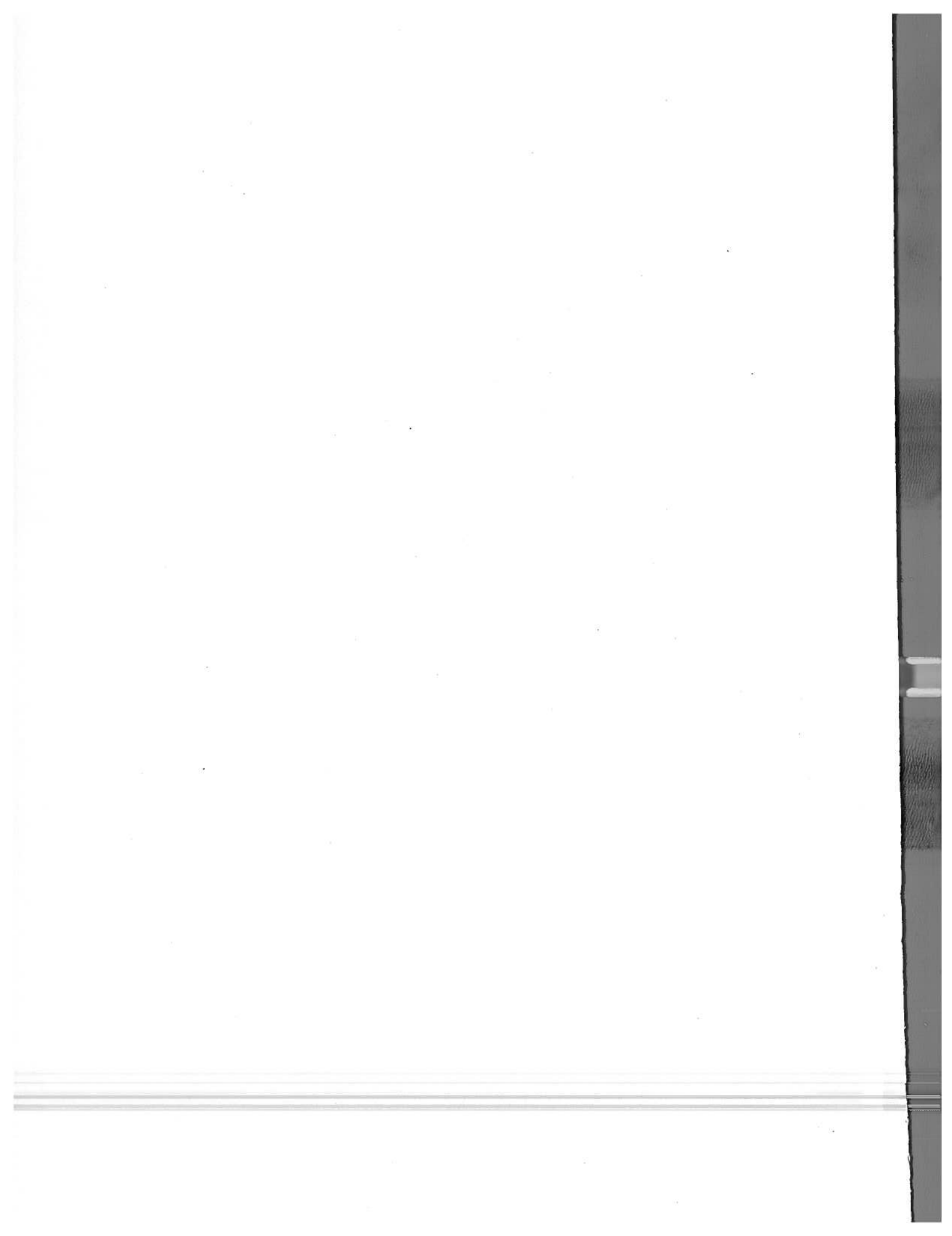
211.9 board feet = 1 cubic meter

* 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.

Type of output	Solid volume**		Dry weight		Residue type
	(Cubic feet)	(Percent)	(Tons)	(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	16	11.0	0.216		Medium
Total wood residue	71	48.9	0.959		
Bark	17	11.7	0.258		Bark
Total all residues	88	60.6	1.217		
Lumber	57	39.4	0.864		
Whole log output	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).

Type of output	Solid volume** (Cubic feet)	Dry weight		Residue type
		(Tons)	(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	1.6	0.022	1.9	Fine
Total wood residue	36.9	0.516	45.4	
Bark	8.8	0.132	11.6	Bark
Total all residues	45.7	0.648	57.0	
Plywood	34.9	0.489	43.0	
Whole log output	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

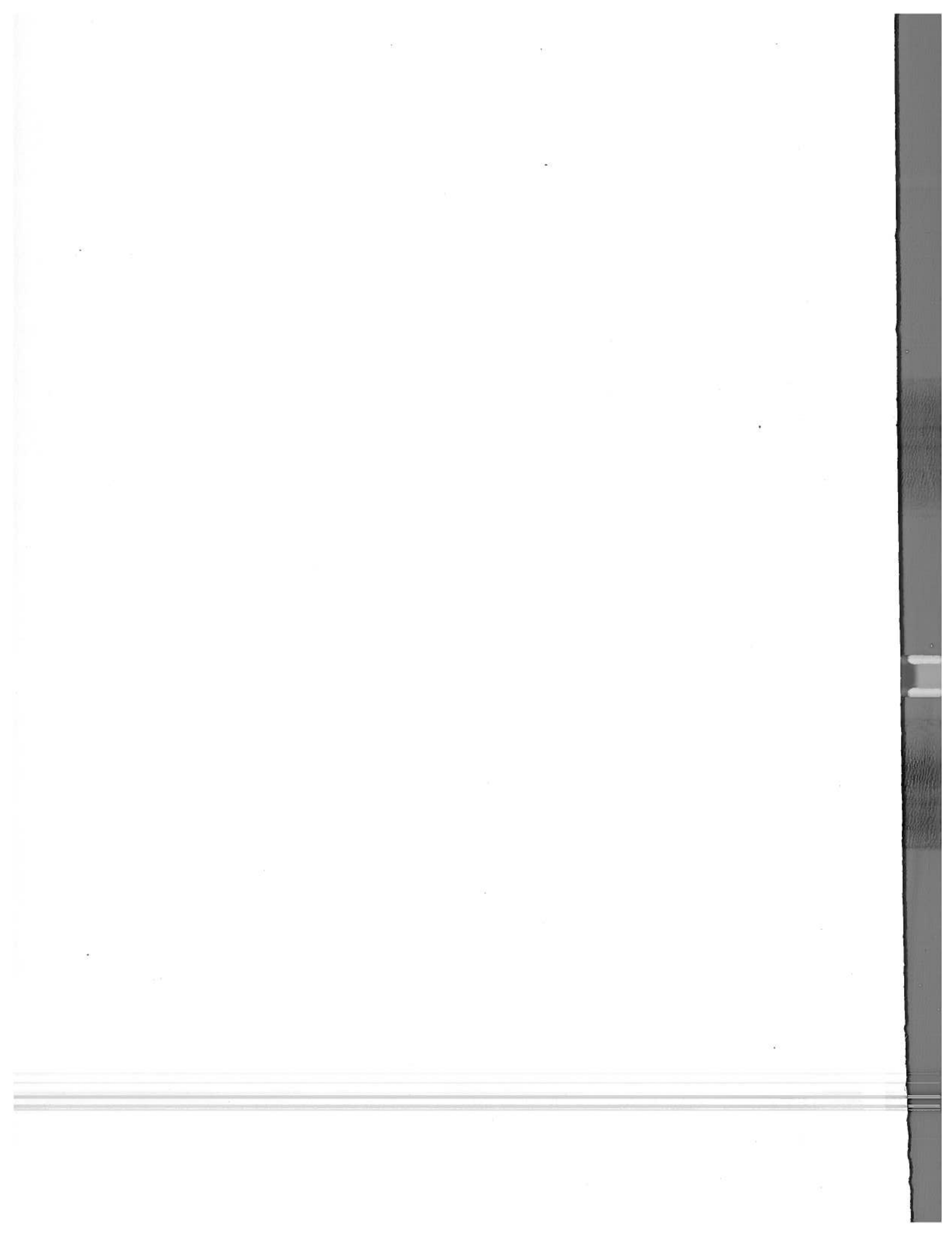
Hardwood Sawmill Residues*

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

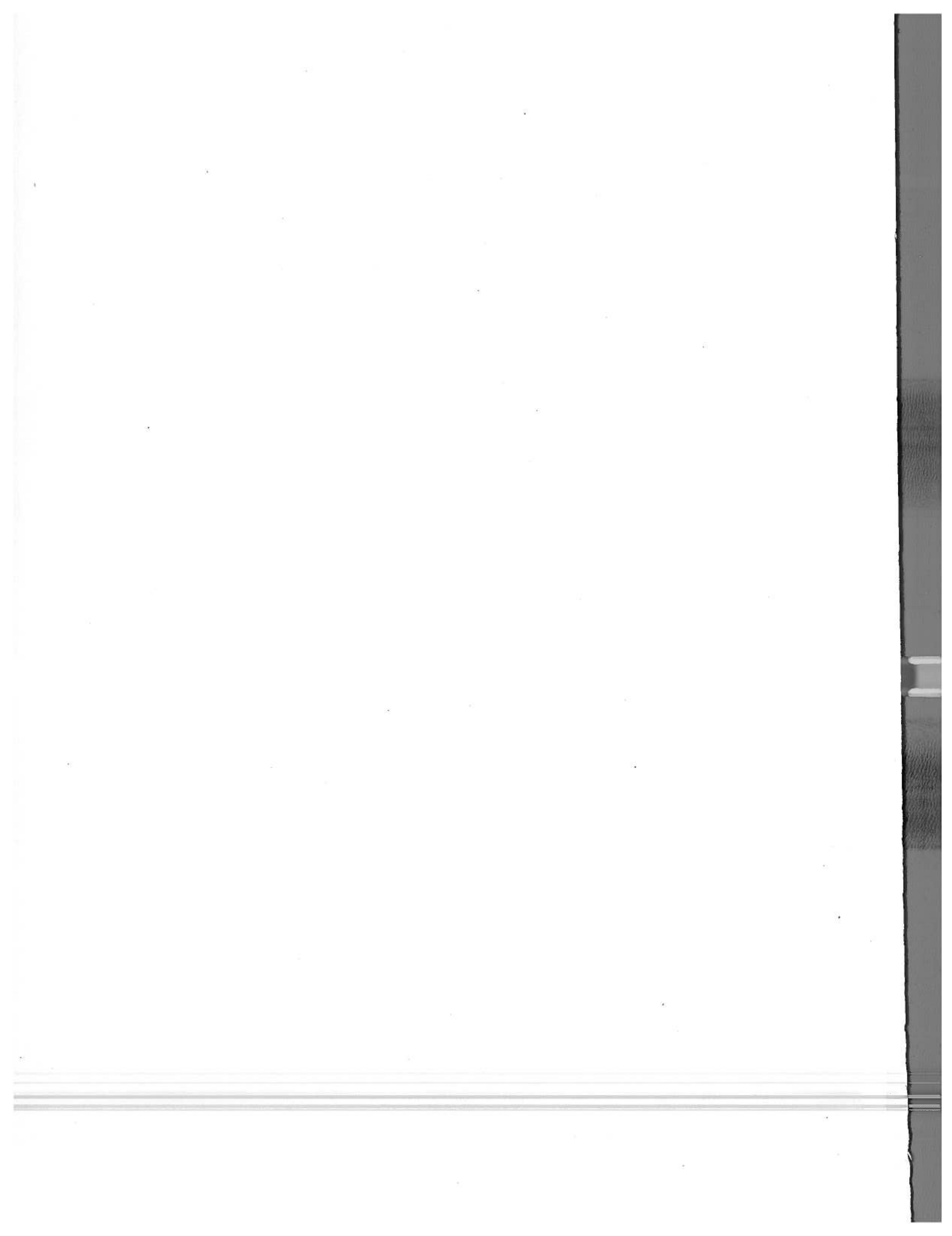
The automated Mill Survey System was developed on an IBM 370/158 MVS computer at the Washington Data Processing Service Center, Olympia, WA.

The master file was built and edited by programs written in ANSI COBOL. Each mill type has its own independent edit program which 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 summarizes and formats the table.

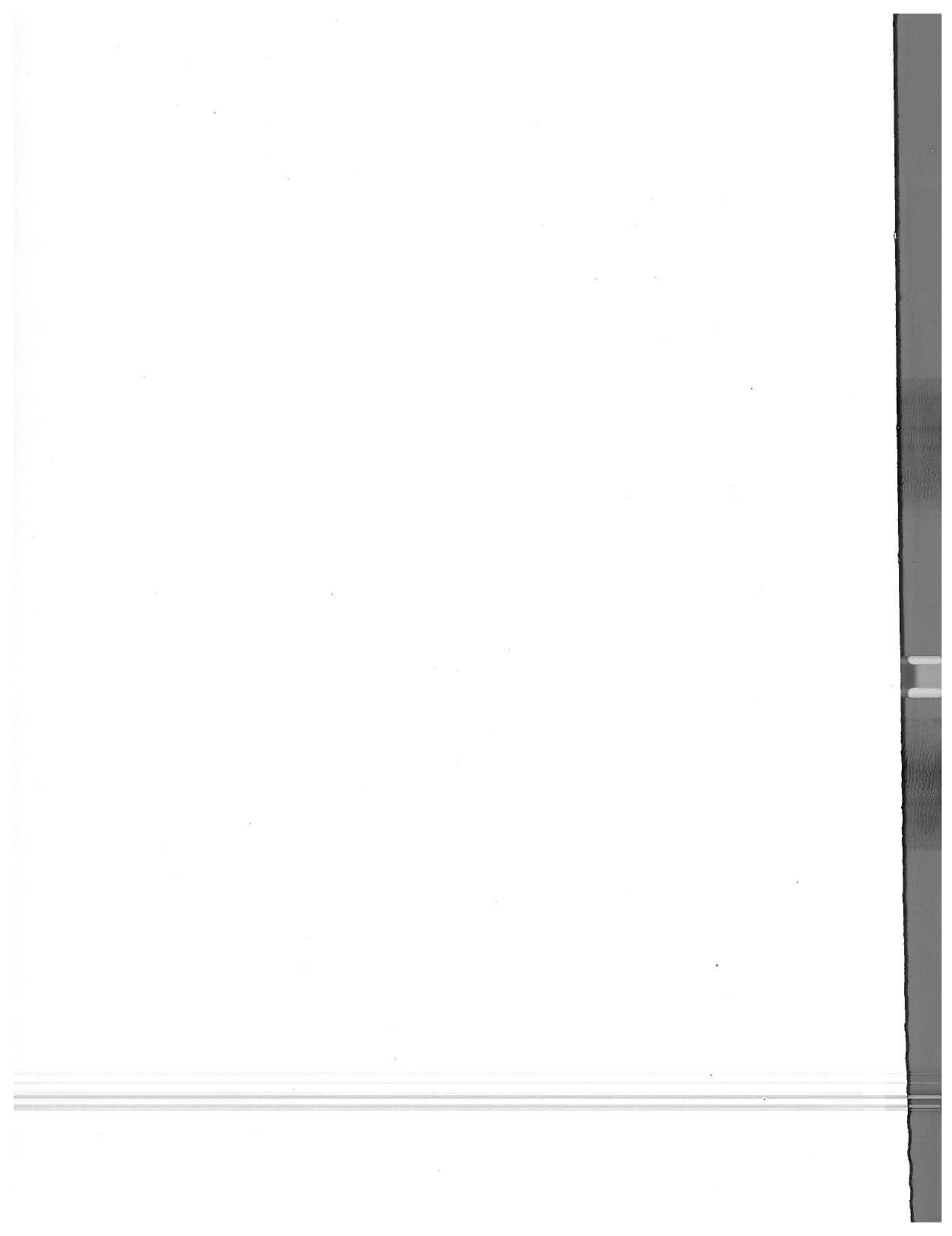
The program package was designed to handle other states' data with minor modifications.

A complete documentation package for this system consists of:

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



Appendix D



WASHINGTON SUMMARY 1992

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
Puget Sound							
Island	--	--	--	--	--	--	--
King	7	5	--	--	1	--	1
Kitsap	1	1	--	--	--	--	--
Pierce	19	7	1	2	--	8	1
San Juan	1	1	--	--	--	--	--
Skagit	12	4	2	--	5	1	--
Snohomish	30	11	--	2	5	11	1
Whatcom	5	1	1	2	--	--	1
Total	75	30	4	6	11	20	4
Olympic Peninsula							
Clallam	25	5	1	2	11	6	--
Grays Harbor	37	5	4	2	16	10	--
Jefferson	6	3	1	1	1	--	--
Lewis	16	8	2	--	5	--	1
Mason	6	4	1	--	--	--	1
Pacific	3	2	--	--	1	--	--
Thurston	12	3	2	--	1	5	1
Total	105	30	11	5	35	21	3
Lower Columbia							
Clark	7	2	1	2	1	--	1
Cowlitz	24	8	--	5	1	10	--
Klickitat	3	2	1	--	--	--	--
Skamania	1	1	--	--	--	--	--
Wahkiakum	1	--	--	--	1	--	--
Total	36	13	2	7	3	10	1
Central Washington							
Adams	--	--	--	--	--	--	--
Benton	--	--	--	--	--	--	--
Chelan	1	1	--	--	--	--	--
Douglas	--	--	--	--	--	--	--
Franklin	--	--	--	--	--	--	--
Grant	--	--	--	--	--	--	--
Kittitas	--	--	--	--	--	--	--
Lincoln	--	--	--	--	--	--	--
Okanogan	6	4	1	--	1	--	--
Yakima	3	2	1	--	--	--	--
Total	10	7	2	--	1	--	--
Inland Empire							
Asotin	1	1	--	--	--	--	--
Columbia	--	--	--	--	--	--	--
Ferry	2	2	--	--	--	--	--
Garfield	--	--	--	--	--	--	--
Pend Oreille	2	1	--	1	--	--	--
Spokane	1	--	--	1	--	--	--
Stevens	12	8	1	--	--	--	3
Walla Walla	4	2	--	2	--	--	--
Whitman	--	--	--	--	--	--	--
Total	22	14	1	4	--	--	3
TOTAL, STATEWIDE	248	94	20	22	50	51	11

[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.

WASHINGTON SUMMARY 1992

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
Puget Sound					
Lumber	793,048	738,589	54,459	3,416	--
Veneer & plywood [3]	--	--	--	--	--
Pulp [4]	112,112	12,141	99,971	--	1,933,837
Shake & shingle	3,954	3,868	86	379	--
Log export	576,796	576,796	--	--	--
Post, pole & piling	9,096	9,049	47	--	--
Total	1,495,006	1,340,443	154,563	3,795	1,933,837
Olympic Peninsula					
Lumber	692,718	597,900	94,818	50,000	--
Veneer & plywood [3]	147,057	140,897	6,160	--	--
Pulp	192,209	80,437	111,772	--	1,238,553
Shake & shingle	12,926	11,504	1,422	5,079	--
Log export	617,617	614,852	2,765	4,000	--
Post, pole & piling [5]	25,831	25,831	--	--	--
Total	1,688,358	1,471,421	216,937	59,079	1,238,553
Lower Columbia					
Lumber	466,105	421,925	44,180	2,651	--
Veneer & plywood [3]	--	--	--	--	--
Pulp [4]	--	--	--	--	3,954,669
Shake & shingle [6]	378	321	57	660	--
Log export	649,792	646,462	3,330	--	--
Post, pole & piling [5]	--	--	--	--	--
Total	1,116,275	1,068,708	47,567	3,311	3,954,669
Central Washington					
Lumber	208,625	208,441	184	--	--
Veneer & plywood [7]	135,297	134,919	378	--	--
Pulp	--	--	--	--	--
Shake & shingle [6]	--	--	--	--	--
Log export	--	--	--	--	--
Post, pole & piling	--	--	--	--	--
Total	343,922	343,360	562	--	--
Inland Empire					
Lumber	351,136	329,705	21,431	--	--
Veneer & plywood [7]	--	--	--	--	--
Pulp [8]	--	--	--	--	1,158,055
Shake & shingle	--	--	--	--	--
Log export	--	--	--	--	--
Post, pole & piling	1,140	306	834	--	--
Total	352,276	330,011	22,265	--	1,158,055
Total, State					
Lumber	2,511,632	2,296,560	215,072	56,067	--
Veneer & plywood	282,354	275,816	6,538	--	--
Pulp	304,321	92,578	211,743	--	8,285,114
Shake & shingle	17,258	15,693	1,565	6,118	--
Log export	1,844,205	1,838,110	6,095	4,000	--
Post, pole & piling	36,067	35,186	881	--	--
TOTAL, STATEWIDE	4,995,837	4,553,943	441,894	66,185	8,285,114

[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 and Lower Columbia combined with Olympic Peninsula to avoid disclosure.

[4] Pulp roundwood consumption for Lower Columbia combined with Puget Sound roundwood consumption to avoid disclosure.

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

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

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

[8] No pulp mills in the Inland Empire reported the receipt of roundwood.

WASHINGTON SUMMARY 1992

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
Puget Sound						
Lumber	793,048	789,265	--	--	553	3,230
Veneer & plywood [1]	--	--	--	--	--	--
Pulp [2]	112,112	78,635	11,644	16,200	--	5,633
Shake & shingle	3,954	3,954	--	--	--	--
Export	576,796	560,930	5,518	1,200	1,967	7,181
Post, pole & piling	9,096	8,045	--	31	1,020	--
Total	1,495,006	1,440,829	17,162	17,431	3,540	16,044
Olympic Peninsula						
Lumber	692,718	683,137	6,881	--	--	2,700
Veneer & plywood [1]	147,057	143,731	319	1,219	--	1,788
Pulp	192,209	188,969	--	--	3,240	--
Shake & shingle	12,926	12,051	--	--	--	875
Export	617,617	615,433	728	--	--	1,456
Post, pole and piling [3]	25,831	22,044	3,787	--	--	--
Total	1,688,358	1,665,365	11,715	1,219	3,240	6,819
Lower Columbia						
Lumber	466,105	363,942	88,404	13,759	--	--
Veneer & plywood [1]	--	--	--	--	--	--
Pulp [2]	--	--	--	--	--	--
Shake & shingle [4]	378	377	1	--	--	--
Export	649,792	606,568	42,744	--	--	480
Post, pole and piling [3]	--	--	--	--	--	--
Total	1,116,275	970,887	131,149	13,759	--	480
Central Washington						
Lumber	208,625	206,185	--	--	2,440	--
Veneer & plywood [5]	135,297	135,297	--	--	--	--
Pulp	--	--	--	--	--	--
Shake & shingle [4]	--	--	--	--	--	--
Export	--	--	--	--	--	--
Post, pole & piling	--	--	--	--	--	--
Total	343,922	341,482	--	--	2,440	--
Inland Empire						
Lumber	351,136	300,082	42,134	8,920	--	--
Veneer & plywood [5]	--	--	--	--	--	--
Pulp [6]	--	--	--	--	--	--
Shake & shingle	--	--	--	--	--	--
Export	--	--	--	--	--	--
Post, pole & piling	1,140	1,070	--	--	70	--
Total	352,276	301,152	42,134	8,920	70	--
Total, State						
Lumber	2,511,632	2,342,611	137,419	22,679	2,993	5,930
Veneer & plywood	282,354	279,028	319	1,219	--	1,788
Pulp	304,321	267,604	11,644	16,200	3,240	5,633
Shake & shingle	17,258	16,382	1	--	--	875
Export	1,844,205	1,782,931	48,990	1,200	1,967	9,117
Post, pole & piling	36,067	31,159	3,787	31	1,090	--
TOTAL, STATEWIDE	4,995,837	4,719,715	202,160	41,329	9,290	23,343

- [1] Veneer and plywood for Puget Sound and Lower Columbia combined with Olympic Peninsula to avoid disclosure.
 [2] Pulp for Lower Columbia combined with Puget Sound to avoid disclosure.
 [3] Post, pole and piling for Lower Columbia combined with Olympic Peninsula to avoid disclosure.
 [4] Shake and shingle for Central Washington combined with Lower Columbia to avoid disclosure.
 [5] Veneer and plywood for Inland Empire combined with Central Washington to avoid disclosure.
 [6] No pulp mills in the Inland Empire reported the receipt of roundwood.

WASHINGTON SUMMARY 1992

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									
King [1,2]	113,080	--	64,897	--	41,490	--	--	2,697	--
Kitsap/ San Juan/ & Whatcom [2,3,4,5]	83,671	--	--	10,686	--	450	12,819	12,819	12,000
Pierce [2,4,5]	761,288	--	146,375	16,139	196,083	--	10,625	64,055	15,351
Skagit [4,6]	54,646	3,676	--	--	490	--	27,120	12,195	10,839
Snohomish [1,2,5,6]	482,321	5,610	22,968	2,461	7,516	--	123,869	184,034	53,693
Total	1,495,006	9,286	234,240	29,286	245,579	450	174,433	275,800	91,883
Olympic Peninsula									
Clallam [4,7,8]	296,908	--	--	1,749	3,240	--	9,974	8,227	3,494
Grays Harbor [7]	573,350	--	--	--	2,400	--	--	50	--
Jeff./Pac. [3,4,7,8,9]	103,937	--	--	--	--	--	--	--	--
Lewis [4,9]	255,398	--	--	5,000	21,107	--	--	1,440	--
Mason [4,9]	238,088	--	7,778	--	14,808	--	5,822	5,335	2,667
Thurston [4,8,9]	220,677	--	4,772	--	19,825	--	7,085	10,627	14,170
Total	1,688,358	--	12,550	6,749	61,380	--	22,881	25,679	20,331
Lower Columbia									
Clark/ Klickitat/ Wahkiakum/ & Skam. [4,5,9,10,11,12]	136,368	--	--	--	--	--	--	--	--
Cowlitz [11,13]	979,907	--	--	--	--	--	--	--	--
Total	1,116,275	--	--	--	--	--	--	--	--
Central Washington									
Chelan/ Okanogan/ & Yakima [12,14]	343,922	--	--	--	--	--	--	--	--
Total	343,922	--	--	--	--	--	--	--	--
Inland Empire									
Asotin/ Ferry/ Pend Oreille/ Spokane/ & Walla Walla [15,16]	157,972	--	--	--	--	--	--	--	--
Stevens [14]	194,304	--	--	--	--	--	--	--	--
Total	352,276	--	--	--	--	--	--	--	--
Total, State	4,995,837	9,286	246,790	36,035	306,959	450	197,314	301,479	112,214

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

WASHINGTON SUMMARY 1992

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
2,220	--	--	1,110	--	--	--
--	--	10,683	12,107	--	--	12,107
15,928	6,840	28,238	86,769	25,367	6,766	61,020
163	--	163	--	--	--	--
14,749	--	6,925	3,191	1,433	--	--
33,060	6,840	46,009	103,177	26,800	6,766	73,127
104,028	81,770	73,652	250	--	5,100	--
7,144	306,878	33,330	62,436	29,747	114,640	15,875
10,514	15,335	21,076	5,037	5	44,099	--
6,500	20,913	1,300	114,139	2,820	9,900	31,308
14,827	39,391	7,155	19,788	99,870	--	18,789
--	3,229	--	11,854	49,238	1,250	56,442
143,013	467,516	136,513	213,504	181,680	174,989	122,414
950	--	--	265	--	96	--
--	30	--	180,502	--	20,104	4,422
950	30	--	180,767	--	20,200	4,422
--	--	--	--	--	--	--
--	--	--	--	--	--	--
--	--	--	--	--	--	--
--	--	--	--	--	--	--
177,023	474,386	182,522	497,448	208,480	201,955	199,963

- [9] Post, pole and piling sector log volume for Lewis, Mason and Clark counties included with Thurston County to avoid individual mill disclosure.
- [10] Combined to avoid disclosure in the lumber and/or shake and shingle sectors.
- [11] Shake and shingle sector log volume for Cowlitz County included with Lower Columbia counties to avoid individual mill disclosure.
- [12] Shake and shingle sector log volume for Okanogan County included with Lower Columbia to avoid individual mill disclosure.
- [13] No pulp mills in Cowlitz County reported the receipt of roundwood.
- [14] Veneer and plywood for Stevens County included with Central Washington to avoid individual mill disclosure.
- [15] Combined to avoid disclosure in the lumber sector and to account for all counties with pulp mills in the Inland Empire together.
- [16] No pulp mills in the Inland Empire reported the receipt of roundwood.

WASHINGTON SUMMARY 1992

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
Puget Sound					
King [1,2]	--	--	--	--	--
Kitsap/ San Juan/ & Whatcom [2,3,4,5]	--	--	--	--	--
Pierce [2,4,5]	--	4,507	--	--	4,507
Skagit [4,6]	--	--	--	--	--
Snohomish [1,2,5,6]	3,192	5,035	--	--	--
Total	3,192	9,542	--	--	4,507
Olympic Peninsula					
Clallam [4,7,8]	--	--	--	--	--
Grays Harbor [7]	--	--	--	--	--
Jefferson/Pac. [3,4,7,8,9]	--	--	--	--	990
Lewis [4,9]	--	433	7,500	18,750	--
Mason [4,9]	--	35	--	--	--
Thurston [4,8,9]	7,917	5,762	4,500	18,681	--
Total	7,917	6,230	12,000	37,431	990
Lower Columbia					
Clark/ Klickitat/ Wahkiakum/ & Skam. [4,5,9,10,11,12]	1,580	3,675	26,155	59,974	79
Cowlitz [11,13]	196,728	395,173	--	31,400	29,369
Total	198,308	398,848	26,155	91,374	29,448
Central Washington					
Chelan/ Okanogan/ & Yakima [12,14]	--	--	34,727	--	--
Total	--	--	34,727	--	--
Inland Empire					
Asotin/ Ferry/ Pend Oreille/ Spokane/ & Walla Walla [15,16]	--	--	--	--	--
Stevens [14]	--	--	--	--	--
Total	--	--	--	--	--
Total, State	209,417	414,620	72,882	128,805	34,945

Please see pages D-6 and D-7 for footnote explanations.

WASHINGTON SUMMARY 1992

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					
Benton	Chelan	Douglas	Kittitas	Okanogan	Yakima
--	--	--	666	--	--
--	--	--	--	--	--
--	--	--	35,458	--	--
--	--	--	--	--	--
--	21,917	--	--	8,811	--
--	21,917	--	36,124	8,811	--
--	--	--	--	--	--
--	--	--	--	--	--
--	--	--	--	--	11,563
--	--	--	--	--	35
--	--	--	--	--	--
--	--	--	--	--	11,598
7,980	--	15	--	19	10,077
--	--	--	--	--	--
7,980	--	15	--	19	10,077
--	26,122	--	39,502	89,022	54,870
--	26,122	--	39,502	89,022	54,870
--	--	--	--	6,300	2,500
--	--	--	--	--	--
--	--	--	--	6,300	2,500
7,980	48,039	15	75,626	104,152	79,045

WASHINGTON SUMMARY 1992

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									
King [1,2]	--	--	--	--	--	--	--	--	--
Kitsap/ San Juan/ & Whatcom [2,3,4,5]	--	--	--	--	--	--	--	--	--
Pierce [2,4,5]	--	--	--	--	--	--	--	--	--
Skagit [4,6]	--	--	--	--	--	--	--	--	--
Snohomish [1,2,5,6]	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--
Olympic Peninsula									
Clallam [4,7,8]	--	--	--	--	--	--	--	--	--
Grays Harbor [7]	--	--	--	--	--	--	--	--	--
Jefferson/Pac. [3,4,7,8,9]	--	--	--	--	--	--	--	--	--
Lewis [4,9]	--	--	--	--	--	--	--	--	--
Mason [4,9]	--	--	--	--	--	--	--	--	--
Thurston [4,8,9]	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--
Lower Columbia									
Clark/ Klickitat/ Wahkiakum/ & Skamania [4,5,9,10,11,12]	760	--	14	760	--	--	--	--	760
Cowlitz [11,13]	--	--	--	--	--	--	--	--	--
Total	760	--	14	760	--	--	--	--	760
Central Washington									
Chelan/ Okanogan/ & Yakima [12,14]	--	--	41,311	--	1,444	14,603	39,881	--	--
Total	--	--	41,311	--	1,444	14,603	39,881	--	--
Inland Empire									
Asotin/ Ferry/ Pend Oreille/ Spokane/ & Walla Walla [15,16]	7,864	17,924	26,800	2,470	26,462	--	17,099	2,245	--
Stevens [14]	--	--	24,124	--	20,238	3,845	143,281	--	--
Total	7,864	17,924	50,924	2,470	46,700	3,845	160,380	2,245	--
Total, State	8,624	17,924	92,249	3,230	48,144	18,448	200,261	2,245	760

Please see pages D-6 and D-7 for footnote explanations.

WASHINGTON SUMMARY 1992

Table D-4 (Continued)

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

Out-of-state
origin

--
--
37,260
--
16,917

54,177
5,424
850
6,881
2,725
1,788
5,325

22,993
23,209
122,179

145,388
2,440

2,440
48,308
2,816

51,124

276,122

WASHINGTON SUMMARY 1992

Table D-5

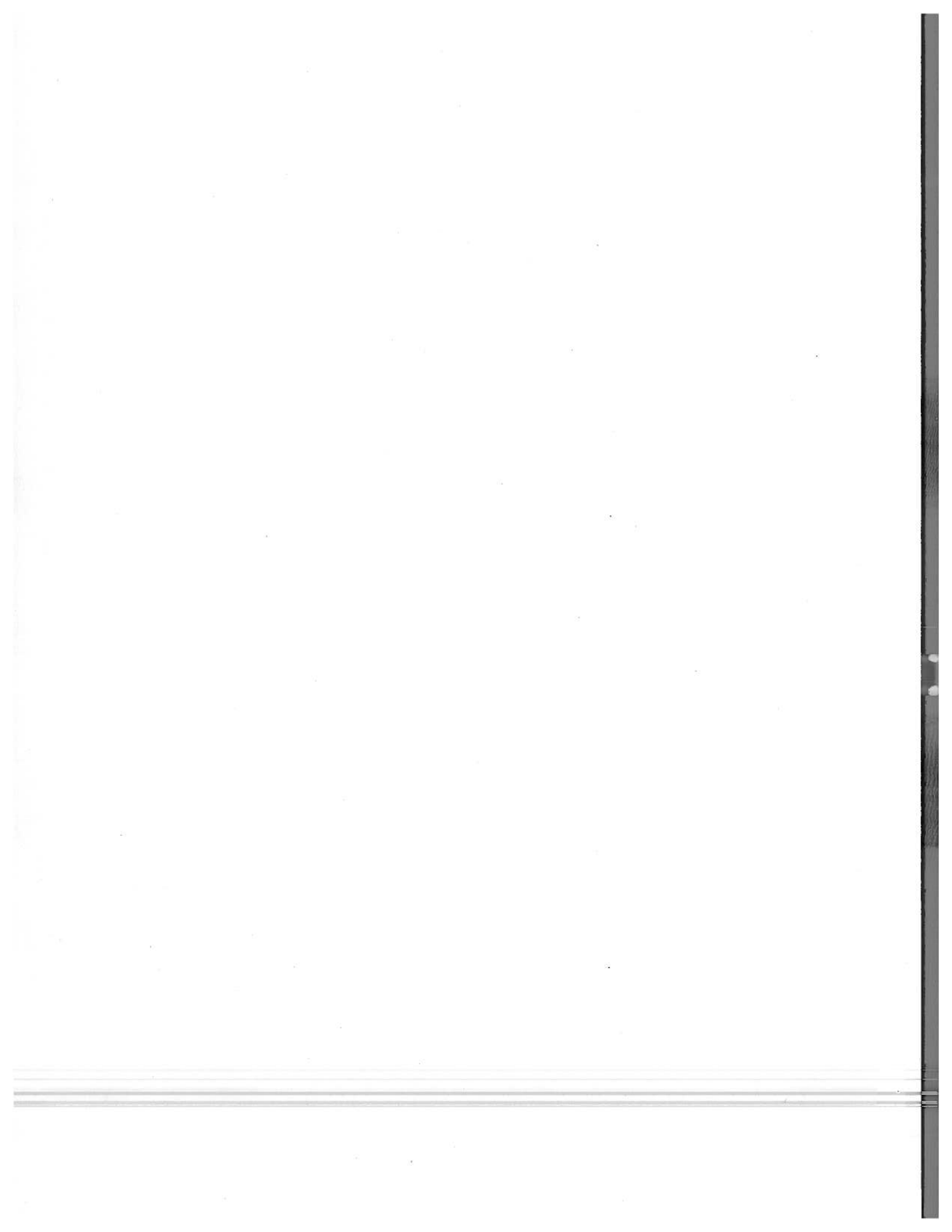
Log Use from National Forests

(Thousand board feet, Scribner log rule)

Economic area	All National Forests		Mount Baker					Out-of-State National Forests	
	Olympic	Gifford Pinchot	Snoqualmie	Wenatchee	Okanogan	Colville	Umatilla		
Puget Sound	10,859	9,777	87,222	30,449	7,269	--	--	--	
Olympic Peninsula	77,241	52,029	3,279	--	--	--	--	851	
Lower Columbia	1,662	82,697	--	--	--	--	--	7,046	
Central Washington	--	--	910	36,844	18,309	3,105	--	--	
Inland Empire	--	--	--	--	9,352	39,705	17,511	--	
TOTAL, STATEWIDE	89,762	144,503	91,411	67,293	34,930	42,810	17,511	7,897	

Industry	All National Forests		Mount Baker					Out-of-State National Forests	
	Olympic	Gifford Pinchot	Snoqualmie	Wenatchee	Okanogan	Colville	Umatilla		
Lumber	63,958	124,673	82,537	55,559	24,054	37,735	17,511	4,417	
Veneer & plywood	9,819	19,540	2,197	11,734	10,876	5,040	--	--	
Pulp	14,136	--	5,700	--	--	--	--	2,629	
Shake & shingle	1,849	290	891	--	--	--	--	851	
Export	--	--	--	--	--	--	--	--	
Post, pole & piling	121	--	86	--	--	35	--	--	
TOTAL, STATEWIDE	89,762	144,503	91,411	67,293	34,930	42,810	17,511	7,897	

NOTE: This table is a summary of data as reported. In Table D-7, the data is distributed by economic area of consumption, but sometimes individual mill data were summed with several mills in a different economic area to avoid individual mill disclosure.



WASHINGTON SUMMARY 1992

Table D-6

Number of Mills Dependent Upon Ownerships for Raw Material

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
Puget Sound												
Lumber	15	11	1	3	11	12	5	2	29	1	--	--
Veneer & plywood [1]	--	--	--	--	--	--	--	--	--	--	--	--
Pulp [2]	10	3	--	--	8	5	--	--	11	2	--	--
Shake & shingle	7	--	2	2	9	1	1	--	11	--	--	--
Export	20	--	--	--	13	7	--	--	20	--	--	--
Post, pole & piling	2	1	--	1	1	2	1	--	4	--	--	--
Total	54	15	3	6	42	27	7	2	75	3	--	--
Olympic Peninsula												
Lumber	14	10	3	3	7	17	4	2	30	--	--	--
Veneer & plywood [1]	8	6	--	3	10	4	2	1	16	1	--	--
Pulp	2	3	--	--	1	3	1	--	4	1	--	--
Shake & shingle	27	3	2	3	24	3	2	6	34	1	--	--
Export	21	--	--	--	12	8	1	--	21	--	--	--
Post, pole & piling [3]	4	--	--	--	--	3	--	1	4	--	--	--
Total	76	22	5	9	54	38	10	10	109	3	--	--
Lower Columbia												
Lumber	8	3	--	2	4	9	--	--	13	--	--	--
Veneer & plywood [1]	--	--	--	--	--	--	--	--	--	--	--	--
Pulp [2]	--	--	--	--	--	--	--	--	--	--	--	--
Shake & shingle [4]	4	--	--	--	3	1	--	--	3	--	--	1
Export	10	--	--	--	5	5	--	--	10	--	--	--
Post, pole & piling [3]	--	--	--	--	--	--	--	--	--	--	--	--
Total	22	3	--	2	12	15	--	--	26	--	--	1
Central Washington												
Lumber	1	4	1	1	3	3	1	--	7	--	--	--
Veneer & plywood [5]	--	3	--	--	--	3	--	--	2	1	--	--
Pulp	--	--	--	--	--	--	--	--	--	--	--	--
Shake & shingle [4]	--	--	--	--	--	--	--	--	--	--	--	--
Export	--	--	--	--	--	--	--	--	--	--	--	--
Post, pole & piling	--	--	--	--	--	--	--	--	--	--	--	--
Total	1	7	1	1	3	6	1	--	9	1	--	--
Inland Empire												
Lumber	6	6	2	--	8	6	--	--	12	2	--	--
Veneer & plywood [5]	--	--	--	--	--	--	--	--	--	--	--	--
Pulp	4	--	--	--	4	--	--	--	4	--	--	--
Shake & shingle	--	--	--	--	--	--	--	--	--	--	--	--
Export	--	--	--	--	--	--	--	--	--	--	--	--
Post, pole & piling	2	1	--	--	3	--	--	--	3	--	--	--
Total	12	7	2	--	15	6	--	--	19	2	--	--
Total, State												
Lumber	44	34	7	9	33	47	10	4	91	3	--	--
Veneer & plywood	8	9	--	3	10	7	2	1	18	2	--	--
Pulp	16	6	--	--	13	8	1	--	19	3	--	--
Shake & shingle	38	3	4	5	36	5	3	6	48	1	--	1
Export	51	--	--	--	30	20	1	--	51	--	--	--
Post, pole & piling	8	2	--	1	4	5	1	1	11	--	--	--
Total	165	54	11	18	126	92	18	12	238	9	--	1

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

[2] Pulp roundwood consumption for Lower Columbia combined with Puget Sound roundwood consumption to avoid disclosure.

WASHINGTON SUMMARY 1992

Table D-6 (Continued)

Number of Mills Dependent Upon Ownerships for Raw Material

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
24	6	--	--	26	3	--	1	18	5	7	--	4	10	5	11
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11	2	--	--	13	--	--	--	8	2	--	3	10	1	--	2
10	--	1	--	11	--	--	--	7	2	--	2	9	2	--	--
18	2	--	--	15	3	1	1	1	2	6	11	11	3	6	--
2	2	--	--	4	--	--	--	1	1	1	1	1	3	--	--
65	12	1	--	69	6	1	2	35	12	14	17	35	19	11	13
22	5	2	1	24	2	3	1	15	7	6	2	10	12	2	6
15	2	--	--	15	1	--	1	9	4	2	2	6	9	1	1
2	2	1	--	2	3	--	--	3	2	--	--	2	2	1	--
30	3	1	1	34	1	--	--	25	3	3	4	33	1	--	1
20	1	--	--	15	3	2	1	--	5	4	12	12	3	5	1
4	--	--	--	1	1	--	2	--	3	--	1	2	2	--	--
93	13	4	2	91	11	5	5	52	24	15	21	65	29	9	9
10	3	--	--	8	3	1	1	4	4	1	4	4	4	3	2
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4	--	--	--	4	--	--	--	3	--	--	1	2	1	--	1
9	1	--	--	7	1	--	2	1	2	1	6	6	2	2	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
23	4	--	--	19	4	1	3	8	6	2	11	12	7	5	3
3	4	--	--	4	2	--	1	3	3	1	--	1	4	2	--
--	2	1	--	--	2	1	--	3	--	--	--	1	1	1	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3	6	1	--	4	4	1	1	6	3	1	--	2	5	3	--
10	4	--	--	5	3	5	1	12	2	--	--	1	5	4	4
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4	--	--	--	4	--	--	--	4	--	--	--	4	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2	--	--	1	3	--	--	--	2	--	--	1	1	1	--	1
16	4	--	1	12	3	5	1	18	2	--	1	6	6	4	5
69	22	2	1	67	13	9	5	52	21	15	6	20	35	16	23
15	4	1	--	15	3	1	1	12	4	2	2	7	10	2	1
17	4	1	--	19	3	--	--	15	4	--	3	16	3	1	2
44	3	2	1	49	1	--	--	35	5	3	7	44	4	--	2
47	4	--	--	37	7	3	4	2	9	11	29	29	8	13	1
8	2	--	1	8	1	--	2	3	4	1	3	4	6	--	1
200	39	6	3	195	28	13	12	119	47	32	50	120	66	32	30

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

21
79
50

WASHINGTON SUMMARY 1992

Table D-7

Log Consumption by Ownership

(Thousand board feet, Scribner log rule)

Economic area and industry	All Owners	State	National [1] Forest	Bureau of Land Management	Other public	Forest Industry		Farmer & Miscellaneous private
						Own wood supply	Other wood supply	
Puget Sound								
Lumber	793,048	186,342	140,255	120	3,147	90,215	156,466	216,503
Veneer & plywood [2]	--	--	--	--	--	--	--	--
Pulp [3]	112,112	4,108	5,629	375	5,633	--	61,073	35,294
Shake & shingle	3,954	623	1,527	--	250	--	1,348	206
Export	576,796	49,658	--	--	5,538	145,017	243,754	132,829
Post, pole & piling	9,096	2,833	86	--	368	--	4,212	1,597
Total	1,495,006	243,564	147,497	495	14,936	235,232	466,853	386,429
Olympic Peninsula								
Lumber	692,718	80,021	101,883	--	21,064	199,338	201,853	88,559
Veneer & plywood [2]	147,057	23,447	30,646	708	602	1,828	53,774	36,052
Pulp	192,209	51,302	16,836	1,036	33,068	45,984	15,800	28,183
Shake & shingle	12,926	6,059	2,354	50	1,775	10	2,148	530
Export	617,617	32,684	--	--	8,220	195,311	254,788	126,614
Post, pole & piling [4]	25,831	4,016	--	--	--	9,584	11,921	310
Total	1,688,358	197,529	151,719	1,794	64,729	452,055	540,284	280,248
Lower Columbia								
Lumber	466,105	21,640	71,165	--	5,508	122,899	165,246	79,647
Veneer & plywood [2]	--	--	--	--	--	--	--	--
Pulp [3]	--	--	--	--	--	--	--	--
Shake & shingle [5]	378	5	--	300	--	--	21	52
Export	649,792	53,672	--	--	440	180,516	291,618	123,546
Post, pole & piling [4]	--	--	--	--	--	--	--	--
Total	1,116,275	75,317	71,165	300	5,948	303,415	456,885	203,245
Central Washington								
Lumber	208,625	12,853	37,130	--	25,961	69,809	17,264	45,608
Veneer & plywood [6]	135,297	13,548	28,560	592	14,611	41,263	--	36,723
Pulp	--	--	--	--	--	--	--	--
Shake & shingle [5]	--	--	--	--	--	--	--	--
Export	--	--	--	--	--	--	--	--
Post, pole & piling	--	--	--	--	--	--	--	--
Total	343,922	26,401	65,690	592	40,572	111,072	17,264	82,331
Inland Empire								
Lumber	351,136	15,775	60,011	2,434	10,509	106,729	4,219	151,459
Veneer & plywood [6]	--	--	--	--	--	--	--	--
Pulp [7]	--	--	--	--	--	--	--	--
Shake & shingle	--	--	--	--	--	--	--	--
Export	--	--	--	--	--	--	--	--
Post, pole & piling	1,140	--	35	--	400	--	630	75
Total	352,276	15,775	60,046	2,434	10,909	106,729	4,849	151,534
Total, State								
Lumber	2,511,632	316,631	410,444	2,554	66,189	588,990	545,048	581,776
Veneer & plywood	282,354	36,995	59,206	1,300	15,213	43,091	53,774	72,775
Pulp	304,321	55,410	22,465	1,411	38,701	45,984	76,873	63,477
Shake & shingle	17,258	6,687	3,881	350	2,025	10	3,517	788
Export	1,844,205	136,014	--	--	14,198	520,844	790,160	382,989
Post, pole & piling	36,067	6,849	121	--	768	9,584	16,763	1,982
TOTAL, STATEWIDE	4,995,837	558,586	496,117	5,615	137,094	1,208,503	1,486,135	1,103,787

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

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

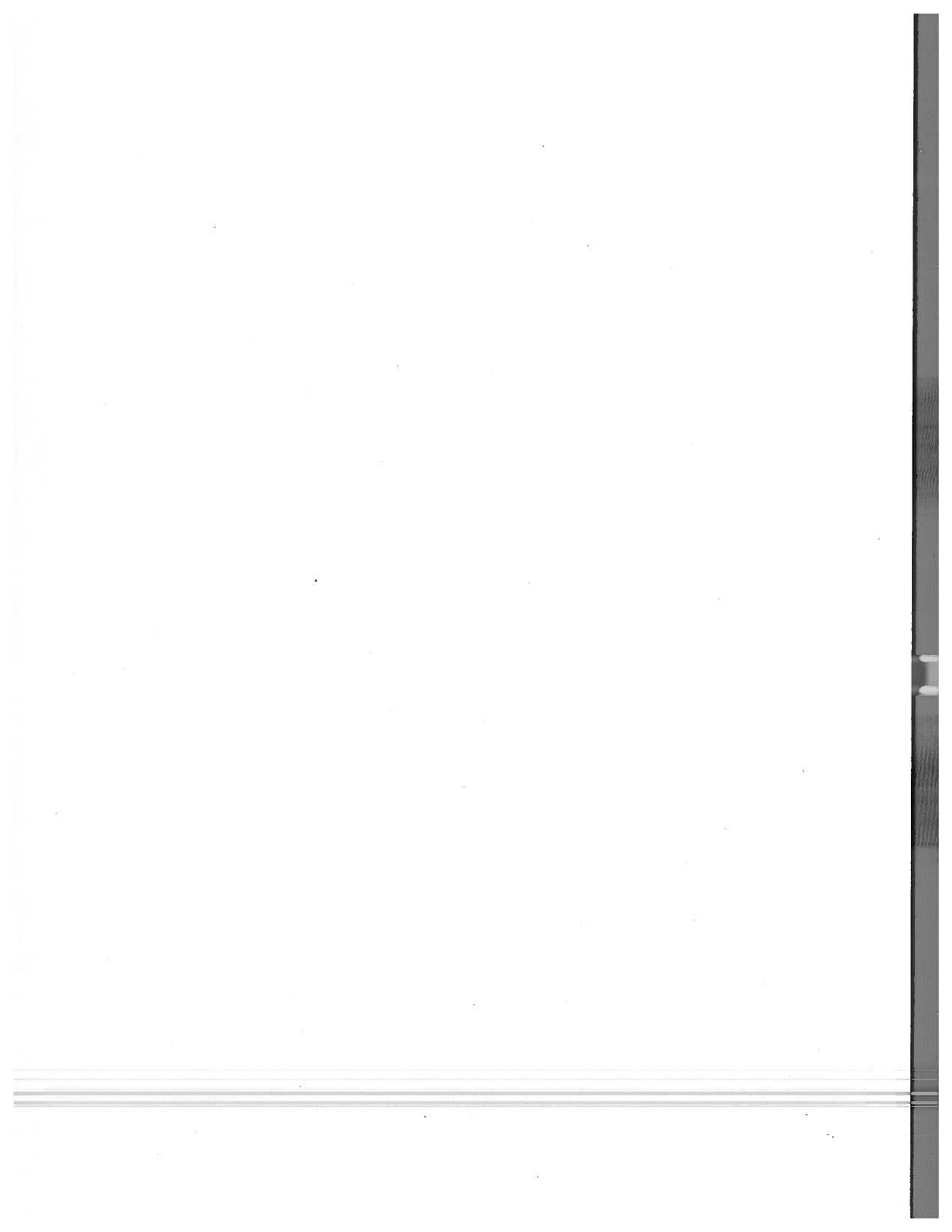
[3] Pulp for Lower Columbia combined with Puget Sound to avoid disclosure.

[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.

[7] No pulp mills in the Inland Empire reported receipt of logs.



WASHINGTON SUMMARY 1992

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
Puget Sound							
Lumber	793,048	385,305	218,434	17,716	1,343	--	--
Veneer & plywood [1]	59,811	15,628	3,982	1,665	354	--	--
Pulp [2]	112,112	4,053	71,822	13,127	145	--	--
Shake & shingle	3,954	--	--	--	--	--	--
Export	576,796	406,155	139,534	10,153	821	--	--
Post, pole & piling	9,096	4,383	--	--	--	--	--
Total	1,554,817	815,524	433,772	42,661	2,663	--	--
Olympic Peninsula							
Lumber	692,718	254,260	258,194	8,137	4,815	5,000	1,500
Veneer & plywood	87,246	51,771	14,243	11,424	894	--	120
Pulp	192,209	25,669	154,187	4,860	6,620	--	873
Shake & shingle	12,926	--	--	--	--	--	--
Export	617,617	347,714	234,102	14,221	11,686	--	650
Post, pole & piling [3]	25,831	25,771	--	--	--	--	--
Total	1,628,547	705,185	660,726	38,642	24,015	5,000	3,143
Lower Columbia							
Lumber	466,105	251,404	27,206	1,956	3	23,303	359
Veneer & plywood [1]	--	--	--	--	--	--	--
Pulp [2]	--	--	--	--	--	--	--
Shake & shingle [4]	378	--	--	--	--	--	--
Export	649,792	558,934	74,414	10,685	899	--	--
Post, pole & piling [3]	--	--	--	--	--	--	--
Total	1,116,275	810,338	101,620	12,641	902	23,303	359
Central Washington							
Lumber	208,625	46,757	7,260	25,053	2,834	116,447	3,014
Veneer & plywood [5]	135,297	115,155	1,893	10,256	--	--	--
Pulp	--	--	--	--	--	--	--
Shake & shingle [4]	--	--	--	--	--	--	--
Export	--	--	--	--	--	--	--
Post, pole & piling	--	--	--	--	--	--	--
Total	343,922	161,912	9,153	35,309	2,834	116,447	3,014
Inland Empire							
Lumber	351,136	134,399	37,397	17,535	8,397	103,928	26,409
Veneer & plywood [5]	--	--	--	--	--	--	--
Pulp	--	--	--	--	--	--	--
Shake & shingle	--	--	--	--	--	--	--
Export	--	--	--	--	--	--	--
Post, pole & piling	1,140	--	--	--	--	--	1,140
Total	352,276	134,399	37,397	17,535	8,397	103,928	27,549
Total, State							
Lumber	2,511,632	1,072,125	548,491	70,397	17,392	248,678	31,282
Veneer & plywood	282,354	182,554	20,118	23,345	1,248	--	120
Pulp	304,321	29,722	226,009	17,987	6,765	--	873
Shake & shingle	17,258	--	--	--	--	--	--
Export	1,844,205	1,312,803	448,050	35,059	13,406	--	650
Post, pole & piling	36,067	30,154	--	--	--	--	1,140
TOTAL, STATEWIDE	4,995,837	2,627,358	1,242,668	146,788	38,811	248,678	34,065

[1] Veneer and plywood for Lower Columbia combined with Puget Sound to avoid disclosure.

[2] Pulp roundwood consumption for Lower Columbia combined with Puget Sound roundwood consumption to avoid disclosure.

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

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

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

WASHINGTON SUMMARY 1992

Table D-8 (Continued)

Log Consumption by Species

(Thousand board feet, Scribner log rule)

Western redcedar	Other softwoods	Hardwoods
82,488	1,387	86,375
--	6,300	31,882
--	--	22,965
3,954	--	--
2,740	5,646	11,747
4,713	--	--

93,895	13,333	152,969
64,107	4	96,701
1,788	120	6,886
--	--	--
12,926	--	--
5,954	401	2,889
60	--	--

84,835	525	106,476
55,266	2,940	103,668
--	--	--
--	--	--
369	9	--
600	1,980	2,280
--	--	--

56,235	4,929	105,948
--	7,260	--
--	7,993	--
--	--	--
--	--	--
--	--	--

--	15,253	--
15,551	3,746	3,774
--	--	--
--	--	--
--	--	--
--	--	--

15,551	3,746	3,774
217,412	15,337	290,518
1,788	14,413	38,768
--	--	22,965
17,249	9	--
9,294	8,027	16,916
4,773	--	--

250,516	37,786	369,167

WASHINGTON SUMMARY 1992

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	
Puget Sound								
Lumber	1,506,518	1,174,458	1,174,452	626,902	32,000	237,742	277,808	6
Veneer & plywood[2]	--	--	--	--	--	--	--	--
Shake & shingle	4,975	3,740	1,221	--	--	680	541	2,519
Other [3]	53,590	--	--	--	--	--	--	--
Total	1,565,083	1,178,198	1,175,673	626,902	32,000	238,422	278,349	2,525
Olympic Peninsula								
Lumber	1,399,147	1,094,379	1,072,389	650,701	43,428	276,638	101,622	21,990
Veneer & plywood[2]	371,697	303,162	302,961	173,852	6,620	99,184	23,305	201
Shake & shingle	18,581	14,257	4,715	--	--	3,056	1,659	9,542
Other [3] [4]	60,806	--	--	--	--	--	--	--
Total	1,850,231	1,411,798	1,380,065	824,553	50,048	378,878	126,586	31,733
Lower Columbia								
Lumber	850,540	660,632	660,632	426,865	39,472	186,788	7,507	--
Veneer & plywood[2]	--	--	--	--	--	--	--	--
Shake & shingle[5]	619	525	525	--	--	415	110	--
Other [3] [4]	90,456	--	--	--	--	--	--	--
Total	941,615	661,157	661,157	426,865	39,472	187,203	7,617	--
Central Washington								
Lumber	341,011	268,550	263,789	93,104	21,568	62,483	86,634	4,761
Veneer & plywood[6]	287,947	230,438	230,438	172,413	11,000	42,555	4,470	--
Shake & shingle[5]	--	--	--	--	--	--	--	--
Other [3]	--	--	--	--	--	--	--	--
Total	628,958	498,988	494,227	265,517	32,568	105,038	91,104	4,761
Inland Empire								
Lumber	623,761	490,119	490,119	278,850	31,718	174,738	4,813	--
Veneer & plywood[6]	--	--	--	--	--	--	--	--
Shake & shingle	--	--	--	--	--	--	--	--
Other [3]	353	--	--	--	--	--	--	--
Total	624,114	490,119	490,119	278,850	31,718	174,738	4,813	--
Total, State								
Lumber	4,720,977	3,688,138	3,661,381	2,076,422	168,186	938,389	478,384	26,757
Veneer & plywood	659,644	533,600	533,399	346,265	17,620	141,739	27,775	201
Shake & shingle	24,175	18,522	6,461	--	--	4,151	2,310	12,061
Other [3]	205,205	--	--	--	--	--	--	--
TOTAL, STATEWIDE	5,610,001	4,240,260	4,201,241	2,422,687	185,806	1,084,279	508,469	39,019

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

[2] Veneer and plywood for Puget Sound and Lower Columbia 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.

WASHINGTON SUMMARY 1992

Table D-9 (Continued)

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

Bark residues						
All bark	Used[1]					Unused
	Total	Pulp	Board	Fuel	Other	
332,060	330,383	--	23,220	103,174	203,989	1,677
--	--	--	--	--	--	--
1,235	348	--	--	129	219	887
53,590	53,559	--	--	1,463	52,096	31
386,885	384,290	--	23,220	104,766	256,304	2,595
304,768	304,768	--	--	246,028	58,740	--
68,535	68,535	--	--	64,971	3,564	--
4,324	1,534	--	--	1,260	274	2,790
60,806	60,806	--	--	46,995	13,811	--
438,433	435,643	--	--	359,254	76,389	2,790
189,908	189,908	258	--	165,759	23,891	--
--	--	--	--	--	--	--
94	94	--	--	86	8	--
90,456	90,456	--	--	48,574	41,882	--
280,458	280,458	258	--	214,419	65,781	--
72,461	68,917	9	--	57,818	11,090	3,544
57,509	57,509	--	--	56,684	825	--
--	--	--	--	--	--	--
--	--	--	--	--	--	--
129,970	126,426	9	--	114,502	11,915	3,544
133,642	133,641	--	--	129,850	3,791	1
--	--	--	--	--	--	--
--	--	--	--	--	--	--
353	12	--	--	--	12	341
133,995	133,653	--	--	129,850	3,803	342
1,032,839	1,027,617	267	23,220	702,629	301,501	5,222
126,044	126,044	--	--	121,655	4,389	--
5,653	1,976	--	--	1,475	501	3,677
205,205	204,833	--	--	97,032	107,801	372
1,369,741	1,360,470	267	23,220	922,791	414,192	9,271

WASHINGTON SUMMARY 1992

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)
Puget Sound			
Lumber	793,048	142,281	650,767
Veneer & plywood [1]	--	--	--
Pulp [2]	112,112	6,000	106,112
Shake & shingle	3,954	3,481	473
Log export	576,796	51,441	525,355
Post, pole & piling	9,096	7	9,089
Total	1,495,006	203,210	1,291,796
Olympic Peninsula			
Lumber	692,718	109,511	583,207
Veneer & plywood [1]	147,057	51,886	95,171
Pulp	192,209	42,000	150,209
Shake & shingle	12,926	12,131	795
Log export	617,617	54,805	562,812
Post, pole & piling [3]	25,831	--	25,831
Total	1,688,358	270,333	1,418,025
Lower Columbia			
Lumber	466,105	77,328	388,777
Veneer & plywood [1]	--	--	--
Pulp [2]	--	--	--
Shake & shingle [4]	378	378	--
Log export	649,792	25,547	624,245
Post, pole & piling [3]	--	--	--
Total	1,116,275	103,253	1,013,022
Central Washington			
Lumber	208,625	86,307	122,318
Veneer & plywood [5]	135,297	28,819	106,478
Pulp	--	--	--
Shake & shingle [4]	--	--	--
Log export	--	--	--
Post, pole & piling	--	--	--
Total	343,922	115,126	228,796
Inland Empire			
Lumber	351,136	94,464	256,672
Veneer & plywood [5]	--	--	--
Pulp [6]	--	--	--
Shake & shingle	--	--	--
Log export	--	--	--
Post, pole & piling	1,140	--	1,140
Total	352,276	94,464	257,812
Total, State			
Lumber	2,511,632	509,891	2,001,741
Veneer & plywood	282,354	80,705	201,649
Pulp	304,321	48,000	256,321
Shake & shingle	17,258	15,990	1,268
Log export	1,844,205	131,793	1,712,412
Post, pole & piling	36,067	7	36,060
Total	4,995,837	786,386	4,209,451

- [1] Veneer and plywood for Puget Sound and Lower Columbia combined with Olympic Peninsula to avoid disclosure.
 [2] Pulp for Lower Columbia combined with Puget Sound to avoid disclosure.
 [3] Post, pole and piling for Lower Columbia combined with Olympic Peninsula to avoid disclosure.
 [4] Shake and shingle for Central Washington combined with Lower Columbia to avoid disclosure.
 [5] Veneer and plywood for Inland Empire combined with Central Washington to avoid disclosure.
 [6] No pulp mills in the Inland Empire reported receipt of logs.

SAWMILLS 1992

Table D-11

Number of Sawmills by Mill-Size Class

Economic area and county	Industry				
	All classes	Mill-size class[1]			
		D	C	B	A
Puget Sound					
King	5	3	--	--	2
Kitsap	1	--	--	--	1
Pierce	7	--	--	2	5
San Juan	1	1	--	--	--
Skagit	4	2	1	--	1
Snohomish	11	3	3	1	4
Whatcom	1	--	--	1	--
Total	30	9	4	4	13
Olympic Peninsula					
Clallam	5	4	1	--	--
Grays Harbor	5	1	1	--	3
Jefferson	3	2	--	1	--
Lewis	8	1	1	2	4
Mason	4	--	1	1	2
Pacific	2	--	--	1	1
Thurston	3	2	--	--	1
Total	30	10	4	5	11
Lower Columbia					
Clark	2	--	1	1	--
Cowlitz	8	2	1	1	4
Klickitat	2	--	--	1	1
Skamania	1	--	--	--	1
Total	13	2	2	3	6
Central Washington					
Chelan	1	1	--	--	--
Okanogan	4	1	1	--	2
Yakima	2	--	--	--	2
Total	7	2	1	--	4
Inland Empire					
Asotin	1	--	1	--	--
Ferry	2	--	1	--	1
Pend Oreille	1	--	--	--	1
Stevens	8	4	--	2	2
Walla Walla	2	1	--	--	1
Total	14	5	2	2	5
TOTAL, STATEWIDE	94	28	13	14	39

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

SAWMILLS 1992

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
Puget Sound					
King	560	40	--	--	520
Kitsap	450	--	--	--	450
Pierce	1,190	--	--	195	995
San Juan	4	4	--	--	--
Skagit	262	22	40	--	200
Snohomish	1,656	66	180	115	1,295
Whatcom	90	--	--	90	--
Total	4,212	132	220	400	3,460
Olympic Peninsula					
Clallam	102	52	50	--	--
Grays Harbor	667	3	50	--	614
Jefferson	107	7	--	100	--
Lewis	1,041	6	70	215	750
Mason	1,070	--	70	100	900
Pacific	352	--	--	80	272
Thurston	195	5	--	--	190
Total	3,534	73	240	495	2,726
Lower Columbia					
Clark	160	--	70	90	--
Cowlitz	1,357	9	65	85	1,198
Klickitat	278	--	--	100	178
Skamania	300	--	--	--	300
Total	2,095	9	135	275	1,676
Central Washington					
Chelan	20	20	--	--	--
Okanogan	450	20	60	--	370
Yakima	315	--	--	--	315
Total	785	40	60	--	685
Inland Empire					
Asotin	60	--	60	--	--
Ferry	230	--	50	--	180
Pend Oreille	200	--	--	--	200
Stevens	822	55	--	190	577
Walla Walla	137	1	--	--	136
Total	1,449	56	110	190	1,093
TOTAL, STATEWIDE	12,075	310	765	1,360	9,640

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

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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
Puget Sound					
D	4	4	4	--	1
C	4	4	3	--	2
B	4	4	4	--	3
A	13	12	12	1	5
Total	25	24	23	1	11
Olympic Peninsula					
D	--	2	5	1	2
C	4	4	2	--	2
B	5	5	4	--	4
A	10	9	11	1	9
Total	19	20	22	2	17
Lower Columbia					
D	--	1	--	--	--
C	2	2	1	--	--
B	3	3	3	--	3
A	6	4	5	1	3
Total	11	10	9	1	6
Central Washington					
D	2	2	1	--	1
C	1	1	1	1	--
B	--	--	--	--	--
A	4	4	4	1	4
Total	7	7	6	2	5
Inland Empire					
D	1	1	5	--	1
C	2	2	2	--	1
B	2	2	2	--	2
A	5	5	5	1	5
Total	10	10	14	1	9
Total, State					
D	7	10	15	1	5
C	13	13	9	1	5
B	14	14	13	--	12
A	38	34	37	5	26
TOTAL, STATEWIDE	72	71	74	7	48

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

SAWMILLS 1992

Table D-14

Number of Sawmills with Selected Equipment by County

Economic area and county	Barker	Chipper	Planer	Burner	Kiln
Puget Sound					
King	2	1	3	--	2
Kitsap	1	1	1	1	--
Pierce	7	7	6	--	2
San Juan	--	--	1	--	--
Skagit	3	3	2	--	1
Snohomish	11	11	9	--	5
Whatcom	1	1	1	--	1
Total	25	24	23	1	11
Olympic Peninsula					
Clallam	1	2	2	1	1
Grays Harbor	4	4	3	1	2
Jefferson	1	1	2	--	1
Lewis	7	7	7	--	7
Mason	3	4	4	--	4
Pacific	2	1	2	--	2
Thurston	1	1	2	--	--
Total	19	20	22	2	17
Lower Columbia					
Clark	2	2	2	--	1
Cowlitz	6	5	4	1	2
Klickitat	2	2	2	--	2
Skamania	1	1	1	--	1
Total	11	10	9	1	6
Central Washington					
Chelan	1	1	--	--	--
Okanogan	4	4	4	2	3
Yakima	2	2	2	--	2
Total	7	7	6	2	5
Inland Empire					
Asotin	1	1	1	--	1
Ferry	2	2	2	--	1
Pend Oreille	1	1	1	--	1
Stevens	5	5	8	1	5
Walla Walla	1	1	2	--	1
Total	10	10	14	1	9
TOTAL, STATEWIDE	72	71	74	7	48

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Table D-15

Number of Sawmills by Headrig Type and Size

Economic area and mill size-class[1]	Circular saw					Bandsaw				Gang saw		Chipping saw		Scragg
	2 ft.	4 ft.	6 ft.	8 ft.	8+ ft.	2 ft.	4 ft.	6 ft.	8 ft.	2 ft.	4 ft.	2 ft.	4 ft.	2 ft.
Puget Sound														
D	1	6	--	--	--	--	2	--	--	--	--	--	--	--
C	--	--	--	--	--	--	2	2	--	--	--	1	--	1
B	--	--	--	--	--	--	3	1	--	1	--	2	--	--
A	1	2	--	--	--	2	6	4	--	1	--	2	1	2
Total	2	8	--	--	--	2	13	7	--	2	--	5	1	3
Olympic Peninsula														
D	--	6	--	2	1	--	2	--	--	--	--	--	--	--
C	--	--	--	--	--	1	1	2	--	--	--	--	--	--
B	--	1	1	--	--	--	2	1	--	1	--	--	--	--
A	1	--	--	--	--	3	3	2	1	--	1	2	--	1
Total	1	7	1	2	1	4	8	5	1	1	1	2	--	1
Lower Columbia														
D	--	1	1	--	--	--	--	--	--	--	--	--	--	--
C	1	--	--	--	--	--	--	1	--	--	--	--	--	1
B	--	--	--	--	--	1	2	--	--	1	--	1	--	--
A	--	--	--	--	--	1	3	2	--	--	--	2	--	--
Total	1	1	1	--	--	2	5	3	--	1	--	3	--	1
Central Washington														
D	--	--	--	--	--	--	--	--	--	--	--	2	--	--
C	--	--	--	--	--	--	--	--	--	--	--	1	--	--
B	--	--	--	--	--	--	--	1	--	--	--	--	--	--
A	--	--	1	--	--	--	--	3	--	--	--	--	--	--
Total	--	--	1	--	--	--	--	4	--	--	--	3	--	--
Inland Empire														
D	2	2	1	--	--	--	--	--	--	--	--	--	--	--
C	--	1	--	--	--	--	1	--	--	--	--	--	--	--
B	--	--	--	--	--	1	--	1	--	--	--	--	--	--
A	1	1	--	--	--	--	5	--	--	--	--	1	--	--
Total	3	4	1	--	--	1	6	1	--	--	--	1	--	--
Total, State														
D	3	15	2	2	1	--	4	--	--	--	--	2	--	--
C	1	1	--	--	--	1	4	5	--	--	--	2	--	2
B	--	1	1	--	--	2	7	4	--	3	--	3	--	--
A	3	3	1	--	--	6	17	11	1	1	1	7	1	3
Total	7	20	4	2	1	9	32	20	1	4	1	14	1	5

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

NOTE: Sizes of headrigs are upper limits. This means the 6-foot size class includes saws 49 through 72 inches.

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Table D-16

Number of Sawmills by Tenure of Present Ownership and 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	1	1	--	--	--	--
	6-10	4	--	--	3	1	--
	11-20	11	--	--	2	9	--
	21+	11	--	--	2	2	7
Total		28	2	--	7	12	7
C	0-2	--	--	--	--	--	--
	3-5	--	--	--	--	--	--
	6-10	--	--	--	--	--	--
	11-20	5	--	--	--	5	--
	21+	8	--	--	--	1	7
Total		13	--	--	--	6	7
B	0-2	--	--	--	--	--	--
	3-5	--	--	--	--	--	--
	6-10	1	--	--	1	--	--
	11-20	1	--	--	1	--	--
	21+	12	--	--	--	6	6
Total		14	--	--	2	6	6
A	0-2	--	--	--	--	--	--
	3-5	--	--	--	--	--	--
	6-10	3	--	--	3	--	--
	11-20	6	--	1	1	3	1
	21+	30	--	2	6	4	18
Total		39	--	3	10	7	19
Total, State	0-2	1	1	--	--	--	--
	3-5	1	1	--	--	--	--
	6-10	8	--	--	7	1	--
	11-20	23	--	1	4	17	1
	21+	61	--	2	8	13	38
TOTAL, STATEWIDE		94	2	3	19	31	39

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

SAWMILLS 1992

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
Puget Sound		Central Washington	
D	170	D	137
C	240	C (Combined with D)	--
B	229	B	--
A	236	A	253
<hr/>		<hr/>	
Average	216	Average	204
Olympic Peninsula		Inland Empire	
D	142	D	96
C	245	C	240
B	236	B (Combined with C)	--
A	241	A	241
<hr/>		<hr/>	
Average	207	Average	189
Lower Columbia		State	
D	175	D	137
C (Combined with D)	--	C	240
B	230	B	235
A	247	A	241
<hr/>		<hr/>	
Average	221	Average	209

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

SAWMILLS 1992

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	Other
	-----Scribner log rule-----			-----Lumber tally-----	
Puget Sound					
D	14,240	13,612	628	--	--
C	48,000	41,800	6,200	--	--
B	99,675	81,372	18,303	--	3,416
A	631,133	601,805	29,328	--	--
Total	793,048	738,589	54,459	--	3,416
Olympic Peninsula					
D	8,755	6,634	2,121	--	--
C	58,600	53,100	5,500	--	--
B	132,429	70,840	61,589	--	50,000
A	492,934	467,326	25,608	--	--
Total	692,718	597,900	94,818	--	50,000
Lower Columbia					
D and C[2]	25,554	13,806	11,748	--	--
B	77,000	64,850	12,150	2,651	--
A	363,551	343,269	20,282	--	--
Total	466,105	421,925	44,180	2,651	--
Central Washington					
D and C[2]	12,088	11,904	184	--	--
B	--	--	--	--	--
A	196,537	196,537	--	--	--
Total	208,625	208,441	184	--	--
Inland Empire					
D	10,138	10,138	--	--	--
C and B[2]	83,565	77,563	6,002	--	--
A	257,433	242,004	15,429	--	--
Total	351,136	329,705	21,431	--	--
Total, State					
D[3]	70,775	56,094	14,681	--	--
C[3][4]	190,165	172,463	17,702	--	--
B[4]	309,104	217,062	92,042	2,651	53,416
A	1,941,588	1,850,941	90,647	--	--
TOTAL, STATEWIDE	2,511,632	2,296,560	215,072	2,651	53,416

[1] Mill-size classes are defined as follows: Class D mills = less than 40,000 board feet of lumber tally 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.

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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)
Puget Sound			
D	14,240	47	14,193
C	48,000	6,560	41,440
B	99,675	13,000	86,675
A	631,133	122,674	508,459
Total	793,048	142,281	650,767
Olympic Peninsula			
D	8,755	5,996	2,759
C	58,600	16,400	42,200
B	132,429	8,900	123,529
A	492,934	78,215	414,719
Total	692,718	109,511	583,207
Lower Columbia			
D and C [2]	25,554	2,482	23,072
B	77,000	26,850	50,150
A	363,551	47,996	315,555
Total	466,105	77,328	388,777
Central Washington			
D and C [2]	12,088	24	12,064
B	--	--	--
A	196,537	86,283	110,254
Total	208,625	86,307	122,318
Inland Empire			
D	10,138	10,040	98
C and B [2]	83,565	6,835	76,730
A	257,433	77,589	179,844
Total	351,136	94,464	256,672
Total, State			
D [3]	70,775	18,589	52,186
C [3] [4]	190,165	29,795	160,370
B [4]	309,104	48,750	260,354
A	1,941,588	412,757	1,528,831
TOTAL, STATEWIDE	2,511,632	509,891	2,001,741

[1] Mill-size class definitions are as follows: Class D mills = less than 40,000 board feet of lumber tally 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 1992

Table D-20

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

Economic area and county	All age groups	Old growth (100+ years)	Young growth (less than 100 years)
Puget Sound			
Kitsap/San Juan/ and Whatcom [1]	83,671	3,607	80,064
King	113,080	19,982	93,098
Pierce	275,140	47,960	227,180
Skagit	52,243	--	52,243
Snohomish	268,914	70,732	198,182
Total	793,048	142,281	650,767
Olympic Peninsula			
Clallam	15,114	14,385	729
Grays Harbor	104,264	33,718	70,546
Jefferson and Pacific [1]	103,937	3,508	100,429
Lewis	255,053	57,900	197,153
Mason	188,633	--	188,633
Thurston	25,717	--	25,717
Total	692,718	109,511	583,207
Lower Columbia			
Clark/ Klickitat and Skamania [1]	135,990	76,646	59,344
Cowlitz	330,115	682	329,433
Total	466,105	77,328	388,777
Central Washington			
Chelan and Yakima [1]	105,529	53,465	52,064
Okanogan	103,096	32,842	70,254
Total	208,625	86,307	122,318
Inland Empire			
Asotin/ Ferry/ Pend Oreille/ and Walla Walla [1]	157,972	53,903	104,069
Stevens	193,164	40,561	152,603
Total	351,136	94,464	256,672
TOTAL, STATEWIDE	2,511,632	509,891	2,001,741

[1] Counties combined to avoid individual mill disclosure.

SAWMILLS 1992

Table D-21

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

Economic area	Log inventory			1992 Log consumption	Apparent 1992 log receipts
	January 1, 1992	December 31, 1992	Net change		
Puget Sound	104,152	84,797	(19,355)	793,048	773,693
Olympic Peninsula	77,674	79,602	1,928	692,718	694,646
Lower Columbia	47,207	67,749	20,542	466,105	486,647
Central Washington	82,986	87,775	4,789	208,625	213,414
Inland Empire	35,585	38,335	2,750	351,136	353,886
TOTAL, STATEWIDE	347,604	358,258	10,654	2,511,632	2,522,286

SAWMILLS 1992

Table D-22

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

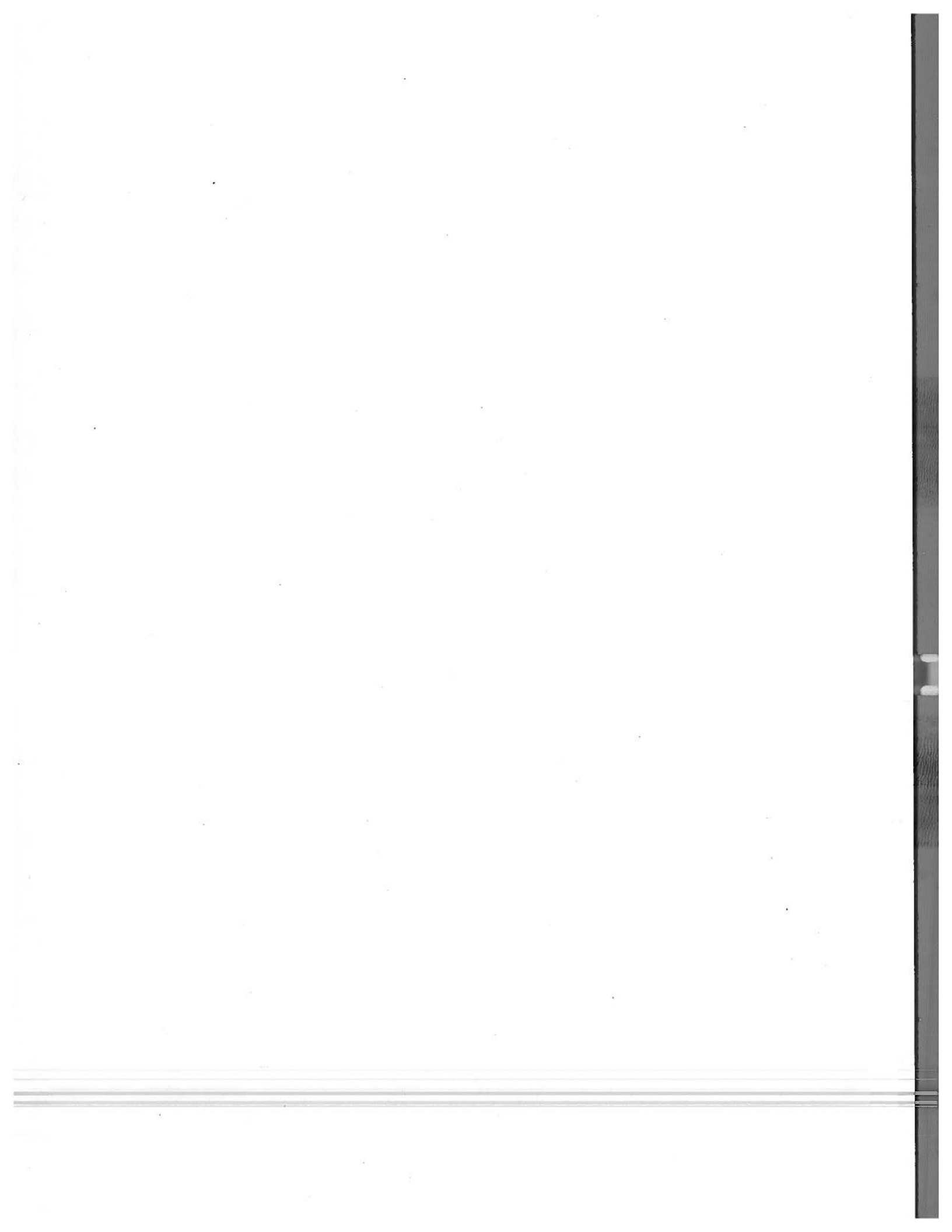
Economic area and mill-size class[1]	All owners	State	National Forest	Bureau of Land Management	Other public	Forest industry		Farmer and miscellaneous private
						Own wood supply	Other wood supply	
Puget Sound								
D	14,240	154	--	--	205	15	1,089	12,777
C	48,000	21,650	2,810	--	800	--	18,750	3,990
B	99,675	11,590	11,520	--	1,410	2,820	6,000	66,335
A	631,133	152,948	125,925	120	732	87,380	130,627	133,401
Total	793,048	186,342	140,255	120	3,147	90,215	156,466	216,503
Olympic Peninsula								
D	8,755	4,973	850	--	14	3	140	2,775
C	58,600	14,940	16,390	--	6,000	--	14,625	6,645
B	132,429	24,973	8,671	--	3,800	11,750	44,600	38,635
A	492,934	35,135	75,972	--	11,250	187,585	142,488	40,504
Total	692,718	80,021	101,883	--	21,064	199,338	201,853	88,559
Lower Columbia								
D and C[2]	25,554	1,334	--	--	9	--	11,333	12,878
B	77,000	4,270	20,080	--	1,900	4,380	21,650	24,720
A	363,551	16,036	51,085	--	3,599	118,519	132,263	42,049
Total	466,105	21,640	71,165	--	5,508	122,899	165,246	79,647
Central Washington								
D and C[2]	12,088	3,358	3,042	--	2,470	--	42	3,176
B	--	--	--	--	--	--	--	--
A	196,537	9,495	34,088	--	23,491	69,809	17,222	42,432
Total	208,625	12,853	37,130	--	25,961	69,809	17,264	45,608
Inland Empire								
D	10,138	--	--	--	--	5,008	--	5,130
C and B[2]	83,565	5,713	24,448	--	2,920	25,695	--	24,789
A	257,433	10,062	35,563	2,434	7,589	76,026	4,219	121,540
Total	351,136	15,775	60,011	2,434	10,509	106,729	4,219	151,459
Total, State								
D[3]	70,775	9,819	3,892	--	2,698	5,026	12,604	36,736
C[3][4]	190,165	42,303	43,648	--	9,720	25,695	33,375	35,424
B[4]	309,104	40,833	40,271	--	7,110	18,950	72,250	129,690
A	1,941,588	223,676	322,633	2,554	46,661	539,319	426,819	379,926
TOTAL, STATEWIDE	2,511,632	316,631	410,444	2,554	66,189	588,990	545,048	581,776

[1] Mill-size class defined as follows: Class D mills = less than 40,000 board feet of lumber tally 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 1992

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
Puget Sound					
Kitsap/San Juan/ and Whatcom [1]	83,671	39,211	--	--	--
King	113,080	2,220	15,540	--	--
Pierce	275,140	50,808	52,754	120	--
Skagit	52,243	28,500	--	--	800
Snohomish	268,914	65,603	71,961	--	2,347
Total	793,048	186,342	140,255	120	3,147
Olympic Peninsula					
Clallam	15,114	4,853	9,185	--	--
Grays Harbor	104,264	6,341	32,172	--	6,002
Jefferson/ Pacific [1]	103,937	17,408	5,805	--	562
Lewis	255,053	39,879	46,860	--	14,500
Mason	188,633	7,740	7,861	--	--
Thurston	25,717	3,800	--	--	--
Total	692,718	80,021	101,883	--	21,064
Lower Columbia					
Clark/ Klickitat/ and Skamania [1]	135,990	5,612	65,680	--	5,499
Cowlitz	330,115	16,028	5,485	--	9
Total	466,105	21,640	71,165	--	5,508
Central Washington					
Chelan/ Yakima [1]	105,529	2,417	23,819	--	22,578
Okanogan	103,096	10,436	13,311	--	3,383
Total	208,625	12,853	37,130	--	25,961
Inland Empire					
Asotin/ Ferry/ Pend Oreille/ and Walla Walla [1]	157,972	3,443	41,653	2,434	7,120
Stevens	193,164	12,332	18,358	--	3,389
Total	351,136	15,775	60,011	2,434	10,509
TOTAL, STATEWIDE	2,511,632	316,631	410,444	2,554	66,189

[1] Combined to avoid disclosure.

SAWMILLS 1992

Table D-23 (Continued)

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

Forest industry		
Own wood supply	Other wood supply	Farmer and Miscellaneous Private
--	30,927	13,533
72,015	18,000	5,305
15,380	37,889	118,189
--	19,089	3,854
2,820	50,561	75,622
90,215	156,466	216,503
3	140	933
31,200	23,812	4,737
35,847	21,970	22,345
11,750	102,442	39,622
120,538	47,239	5,255
--	6,250	15,667
199,338	201,853	88,559
27,053	14,309	17,837
95,846	150,937	61,810
122,899	165,246	79,647
20,132	17,252	19,331
49,677	12	26,277
69,809	17,264	45,608
48,053	669	54,600
58,676	3,550	96,859
106,729	4,219	151,459
588,990	545,048	581,776

SAWMILLS 1992

Table D-24

Number of Mills Dependent upon Ownerships for Logs

Economic area and mill-size class[1]	National Forest				State				Bureau of Land Management			
	0	1-33	34-66	67-100	0	1-33	34-66	67-100	0	1-33	34-66	67-100
Puget Sound												
D	9	--	--	--	8	--	--	1	9	--	--	--
C	1	--	1	2	--	--	--	4	4	--	--	--
B	2	--	--	2	2	--	--	2	4	--	--	--
A	3	--	--	10	1	--	--	12	12	--	--	1
Total	15	--	1	14	11	--	--	19	29	--	--	1
Olympic Peninsula												
D	6	1	1	2	3	2	2	3	10	--	--	--
C	1	--	--	3	2	--	--	2	4	--	--	--
B	1	--	--	4	--	--	--	5	5	--	--	--
A	6	--	--	5	2	--	--	9	11	--	--	--
Total	14	1	1	14	7	2	2	19	30	--	--	--
Lower Columbia												
D and C[2]	4	--	--	--	2	--	--	2	4	--	--	--
B	1	--	--	2	1	--	--	2	3	--	--	--
A	3	--	--	3	1	--	--	5	6	--	--	--
Total	8	--	--	5	4	--	--	9	13	--	--	--
Central Washington												
D and C[2]	--	1	--	2	1	1	--	1	3	--	--	--
B	--	--	--	--	--	--	--	--	--	--	--	--
A	1	--	--	3	2	--	--	2	4	--	--	--
Total	1	1	--	5	3	1	--	3	7	--	--	--
Inland Empire												
D	5	--	--	--	5	--	--	--	5	--	--	--
C and B[2]	1	--	--	3	2	--	--	2	4	--	--	--
A	--	--	--	5	1	--	--	4	3	--	--	2
Total	6	--	--	8	8	--	--	6	12	--	--	2
Total State												
D[3]	24	2	1	4	19	3	2	7	31	--	--	--
C[3][4]	3	--	1	8	4	--	--	8	12	--	--	--
B[4]	4	--	--	8	3	--	--	9	12	--	--	--
A	13	--	--	26	7	--	--	32	36	--	--	3
TOTAL, STATEWIDE	44	2	2	46	33	3	2	56	91	--	--	3

[1] Mill-size classes are defined as follows: Class D mills = less than 40,000 board feet of lumber tally 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 1992

Table D-24 (Continued)

Number of Mills Dependent upon Ownerships for Logs

Other Public				Forest Industry								Farmer & miscellaneous private			
				Own wood supply				Other wood supply							
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
7	--	1	1	8	1	--	--	8	--	--	1	--	--	1	8
3	--	--	1	4	--	--	--	2	--	--	2	2	--	--	2
3	--	--	1	3	--	--	1	3	--	--	1	--	--	--	4
11	--	--	2	11	--	--	2	5	--	--	8	2	--	--	11
24	--	1	5	26	1	--	3	18	--	--	12	4	--	1	25
8	2	--	--	9	1	--	--	9	--	--	1	4	--	1	5
3	--	--	1	4	--	--	--	3	--	--	1	1	--	--	3
2	--	--	3	4	--	--	1	2	--	--	3	--	--	--	5
9	--	--	2	7	--	--	4	1	--	--	10	5	--	--	6
22	2	--	6	24	1	--	5	15	--	--	15	10	--	1	19
3	1	--	--	4	--	--	--	2	--	--	2	2	1	--	1
2	--	--	1	1	--	--	2	1	--	--	2	--	--	--	3
5	--	--	1	3	--	--	3	1	--	--	5	2	--	--	4
10	1	--	2	8	--	--	5	4	--	--	9	4	1	--	8
1	1	--	1	3	--	--	--	1	2	--	--	1	1	--	1
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2	--	--	2	1	--	--	3	2	--	--	2	--	--	--	4
3	1	--	3	4	--	--	3	3	2	--	2	1	1	--	5
5	--	--	--	3	1	--	1	5	--	--	--	1	2	--	2
3	--	--	1	2	--	--	2	4	--	--	--	--	--	--	4
2	--	--	3	--	--	--	5	3	--	--	2	--	--	--	5
10	--	--	4	5	1	--	8	12	--	--	2	1	2	--	11
24	4	1	2	27	3	--	1	25	2	--	4	8	4	2	17
9	--	--	3	10	--	--	2	9	--	--	3	3	--	--	9
7	--	--	5	8	--	--	4	6	--	--	6	--	--	--	12
29	--	--	10	22	--	--	17	12	--	--	27	9	--	--	30
69	4	1	20	67	3	--	24	52	2	--	40	20	4	2	68

SAWMILLS 1992

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
Puget Sound							
D	14,240	3,565	1,017	4	--	--	--
C	48,000	11,350	1,500	90	30	--	--
B	99,675	14,915	36,277	--	553	--	--
A	631,133	355,475	179,640	17,622	760	--	--
Total	793,048	385,305	218,434	17,716	1,343	--	--
Olympic Peninsula							
D	8,755	1,852	704	2	2	--	--
C	58,600	10,410	15,690	--	--	--	--
B	132,429	3,500	28,000	--	3,500	--	--
A	492,934	238,498	213,800	8,135	1,313	5,000	1,500
Total	692,718	254,260	258,194	8,137	4,815	5,000	1,500
Lower Columbia							
D and C[2]	25,554	12,673	12	--	3	--	--
B	77,000	35,230	820	380	--	630	--
A	363,551	203,501	26,374	1,576	--	22,673	359
Total	466,105	251,404	27,206	1,956	3	23,303	359
Central Washington							
D and C[2]	12,088	8,980	--	90	4	--	3,014
B	--	--	--	--	--	--	--
A	196,537	37,777	7,260	24,963	2,830	116,447	--
Total	208,625	46,757	7,260	25,053	2,834	116,447	3,014
Inland Empire							
D	10,138	7,583	--	1,005	--	1,528	5
C and B[2]	83,565	10,438	3,369	11,720	2,422	48,099	1,400
A	257,433	116,378	34,028	4,810	5,975	54,301	25,004
Total	351,136	134,399	37,397	17,535	8,397	103,928	26,409
Total, State							
D[3]	70,775	34,653	1,733	1,101	9	1,528	3,019
C[3][4]	190,165	32,198	20,559	11,810	2,452	48,099	1,400
B[4]	309,104	53,645	65,097	380	4,053	630	--
A	1,941,588	951,629	461,102	57,106	10,878	198,421	26,863
Total	2,511,632	1,072,125	548,491	70,397	17,392	248,678	31,282

[1] Mill-size classes are defined as follows: Class D mills = less than 40,000 board feet of lumber tally 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 1992

Table D-25 (Continued)

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

Western redcedar	Other softwoods	Hardwoods
6,521	66	3,067
15,030	--	20,000
3,280	--	44,650
57,657	1,321	18,658
82,488	1,387	86,375
4,990	4	1,201
--	--	32,500
39,429	--	58,000
19,688	--	5,000
64,107	4	96,701
12,866	--	--
--	2,940	37,000
42,400	--	66,668
55,266	2,940	103,668
--	--	--
--	--	--
--	7,260	--
--	7,260	--
12	--	5
5,117	1,000	--
10,422	2,746	3,769
15,551	3,746	3,774
24,389	70	4,273
20,147	1,000	52,500
42,709	2,940	139,650
130,167	11,327	94,095
217,412	15,337	290,518

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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
Puget Sound						
Kitsap/San Juan/ and Whatcom[1]	83,671	60,726	13,195	4	--	--
King	113,080	48,385	63,947	--	--	--
Pierce	275,140	157,384	92,251	--	1,313	--
Skagit	52,243	27,604	2,400	--	--	--
Snohomish	268,914	91,206	46,641	17,712	30	--
Total	793,048	385,305	218,434	17,716	1,343	--
Olympic Peninsula						
Clallam	15,114	3,399	7,422	2	--	--
Grays Harbor	104,264	18,229	66,343	--	--	--
Jefferson/Pacific[1]	103,937	3,583	85,819	--	3,502	--
Lewis	255,053	74,729	60,676	8,135	1,313	5,000
Mason	188,633	129,270	37,934	--	--	--
Thurston	25,717	25,050	--	--	--	--
Total	692,718	254,260	258,194	8,137	4,815	5,000
Lower Columbia						
Clark/Klickitat/Skamania [1]	135,990	88,269	17,620	1,099	--	23,303
Cowlitz	330,115	163,135	9,586	857	3	--
Total	466,105	251,404	27,206	1,956	3	23,303
Central Washington						
Chelan/Yakima[1]	105,529	11,508	7,260	24,963	--	51,538
Okanogan	103,096	35,249	--	90	2,834	64,909
Total	208,625	46,757	7,260	25,053	2,834	116,447
Inland Empire						
Asotin/Walla Walla[1]	78,477	41,470	20,731	--	1,572	9,659
Ferry/Pend Oreille[1]	79,495	44,619	7,624	2,260	1,260	6,300
Stevens	193,164	48,310	9,042	15,275	5,565	87,969
Total	351,136	134,399	37,397	17,535	8,397	103,928
TOTAL, STATEWIDE	2,511,632	1,072,125	548,491	70,397	17,392	248,678

[1] Combined to avoid disclosure.

SAWMILLS 1992

Table D-26 (Continued)

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

Lodgepole pine	Western redcedar	Other softwoods	Hardwoods
--	1,200	--	8,546
--	682	66	--
--	14,080	--	10,112
--	2,239	--	20,000
--	64,287	1,321	47,717

--	82,488	1,387	86,375

--	4,291	--	--
--	19,688	4	--
--	32	--	11,001
1,500	18,000	--	85,700
--	21,429	--	--
--	667	--	--

1,500	64,107	4	96,701

359	2,400	2,940	--
--	52,866	--	103,668

359	55,266	2,940	103,668

3,000	--	7,260	--
14	--	--	--

3,014	--	7,260	--

5,040	--	--	5
9,314	3,349	1,000	3,769
12,055	12,202	2,746	--

26,409	15,551	3,746	3,774

31,282	217,412	15,337	290,518

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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
Puget Sound						
D	19,980	19,974	6	15,155	15,149	6
C	77,313	75,636	1,677	58,319	58,319	--
B	165,349	165,349	--	125,651	125,651	--
A	1,243,876	1,243,876	--	975,333	975,333	--
Total	1,506,518	1,504,835	1,683	1,174,458	1,174,452	6
Olympic Peninsula						
D	14,886	14,867	19	11,498	11,479	19
C	85,441	83,809	1,632	64,189	62,557	1,632
B	152,731	152,731	--	118,254	118,254	--
A	1,146,089	1,125,750	20,339	900,438	880,099	20,339
Total	1,399,147	1,377,157	21,990	1,094,379	1,072,389	21,990
Lower Columbia						
D and C[3]	39,368	39,368	--	30,073	30,073	--
B	122,815	122,815	--	95,181	95,181	--
A	688,357	688,357	--	535,378	535,378	--
Total	850,540	850,540	--	660,632	660,632	--
Central Washington						
D and C[3]	20,385	13,488	6,897	16,056	12,703	3,353
B	--	--	--	--	--	--
A	320,626	319,218	1,408	252,494	251,086	1,408
Total	341,011	332,706	8,305	268,550	263,789	4,761
Inland Empire						
D	12,126	12,125	1	9,506	9,506	--
C and B[3]	132,282	132,282	--	103,891	103,891	--
A	479,353	479,353	--	376,722	376,722	--
Total	623,761	623,760	1	490,119	490,119	--
Total, State						
D[4]	106,745	99,822	6,923	82,288	78,910	3,378
C[4][5]	295,036	291,727	3,309	226,399	224,767	1,632
B[5]	440,895	440,895	--	339,086	339,086	--
A	3,878,301	3,856,554	21,747	3,040,365	3,018,618	21,747
TOTAL, STATEWIDE	4,720,977	4,688,998	31,979	3,688,138	3,661,381	26,757

- [1] Mill-size classes are defined as follows: Class D mills = less than 40,000 board feet of lumber tally capacity per 8-hour shift; C = 40,000 - 79,999; B = 80,000 - 119,999; A = 120,000+.
- [2] Used residues were not necessarily consumed in the economic area in which they were produced.
- [3] Combined to avoid disclosure.
- [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.

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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
4,825	4,825	--
18,994	17,317	1,677
39,698	39,698	--
268,543	268,543	--
332,060	330,383	1,677
3,388	3,388	--
21,252	21,252	--
34,477	34,477	--
245,651	245,651	--
304,768	304,768	--
9,295	9,295	--
27,634	27,634	--
152,979	152,979	--
189,908	189,908	--
4,329	785	3,544
--	--	--
68,132	68,132	--
72,461	68,917	3,544
2,620	2,619	1
28,391	28,391	--
102,631	102,631	--
133,642	133,641	1
24,457	20,912	3,545
68,637	66,960	1,677
101,809	101,809	--
837,936	837,936	--
1,032,839	1,027,617	5,222

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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
Puget Sound							
D	15,155	15,149	3,478	--	4,015	7,656	6
C	58,319	58,319	34,658	--	17,163	6,498	--
B	125,651	125,651	48,697	--	46,921	30,033	--
A	975,333	975,333	540,069	32,000	169,643	233,621	--
Total	1,174,458	1,174,452	626,902	32,000	237,742	277,808	6
Olympic Peninsula							
D	11,498	11,479	5,945	--	3,868	1,666	19
C	64,189	62,557	31,129	--	20,010	11,418	1,632
B	118,254	118,254	46,577	--	52,020	19,657	--
A	900,438	880,099	567,050	43,428	200,740	68,881	20,339
Total	1,094,379	1,072,389	650,701	43,428	276,638	101,622	21,990
Lower Columbia							
D and C[4]	30,073	30,073	9,486	--	13,590	6,997	--
B	95,181	95,181	68,263	23,738	3,180	--	--
A	535,378	535,378	349,116	15,734	170,018	510	--
Total	660,632	660,632	426,865	39,472	186,788	7,507	--
Central Washington							
D and C[4]	16,056	12,703	10,076	--	1,886	741	3,353
B	--	--	--	--	--	--	--
A	252,494	251,086	83,028	21,568	60,597	85,893	1,408
Total	268,550	263,789	93,104	21,568	62,483	86,634	4,761
Inland Empire							
D	9,506	9,506	--	--	9,374	132	--
C and B[4]	103,891	103,891	66,641	13,115	19,454	4,681	--
A	376,722	376,722	212,209	18,603	145,910	--	--
Total	490,119	490,119	278,850	31,718	174,738	4,813	--
Total, State							
D[5]	82,288	78,910	28,985	--	32,733	17,192	3,378
C[5][6]	226,399	224,767	132,428	13,115	56,627	22,597	1,632
B[6]	339,086	339,086	163,537	23,738	102,121	49,690	--
A	3,040,365	3,018,618	1,751,472	131,333	746,908	388,905	21,747
TOTAL, STATEWIDE	3,688,138	3,661,381	2,076,422	168,186	938,389	478,384	26,757

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

[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 1992

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
9,633	9,633	3,478	--	1,826	4,329	--
37,293	37,293	34,658	--	2,635	--	--
77,614	77,614	48,697	--	28,917	--	--
548,535	548,535	431,014	--	64,821	52,700	--
673,075	673,075	517,847	--	98,199	57,029	--
6,834	6,832	4,433	--	1,660	739	2
40,581	40,581	28,408	--	5,533	6,640	--
66,104	66,104	40,684	--	22,661	2,759	--
501,553	497,997	429,883	--	52,700	15,414	3,556
615,072	611,514	503,408	--	82,554	25,552	3,558
18,987	18,987	9,486	--	9,486	15	--
55,087	55,087	55,087	--	--	--	--
307,874	307,874	275,744	--	31,620	510	--
381,948	381,948	340,317	--	41,106	525	--
8,845	8,845	7,258	--	1,587	--	--
--	--	--	--	--	--	--
139,172	137,764	83,028	--	--	54,736	1,408
148,017	146,609	90,286	--	1,587	54,736	1,408
5,353	5,353	--	--	5,270	83	--
57,998	57,998	57,294	--	--	704	--
209,569	209,569	202,489	--	7,080	--	--
272,920	272,920	259,783	--	12,350	787	--
49,652	49,650	24,655	--	19,829	5,166	2
135,872	135,872	120,360	--	8,168	7,344	--
198,805	198,805	144,468	--	51,578	2,759	--
1,706,703	1,701,739	1,422,158	--	156,221	123,360	4,964
2,091,032	2,086,066	1,711,641	--	235,796	138,629	4,966

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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
Puget Sound							
D	1,650	1,644	--	--	492	1,152	6
C	6,229	6,229	--	--	3,187	3,042	--
B	16,614	16,614	--	--	--	16,614	--
A	201,972	201,972	56,693	25,952	32,573	86,754	--
Total	226,465	226,459	56,693	25,952	36,252	107,562	6
Olympic Peninsula							
D	1,893	1,887	--	--	1,776	111	6
C	7,892	6,260	--	--	5,852	408	1,632
B	15,656	15,656	5,893	--	9,763	--	--
A	193,388	193,388	43,364	43,428	80,075	26,521	--
Total	218,829	217,191	49,257	43,428	97,466	27,040	1,638
Lower Columbia							
D and C[5]	3,304	3,304	--	--	--	3,304	--
B	18,408	18,408	--	15,228	3,180	--	--
A	102,809	102,809	27,000	15,734	60,075	--	--
Total	124,521	124,521	27,000	30,962	63,255	3,304	--
Central Washington							
D and C[5]	3,588	680	586	--	1	93	2,908
B	--	--	--	--	--	--	--
A	56,282	56,282	--	21,568	10,037	24,677	--
Total	59,870	56,962	586	21,568	10,038	24,770	2,908
Inland Empire							
D	1,960	1,960	--	--	1,944	16	--
C and B[5]	22,123	22,123	2,651	13,115	2,380	3,977	--
A	81,285	81,285	--	18,603	62,682	--	--
Total	105,368	105,368	2,651	31,718	67,006	3,993	--
Total, State							
D[6]	12,395	9,475	586	--	4,213	4,676	2,920
C[6] [7]	36,244	34,612	2,651	13,115	11,419	7,427	1,632
B[7]	50,678	50,678	5,893	15,228	12,943	16,614	--
A	635,736	635,736	127,057	125,285	245,442	137,952	--
TOTAL, STATEWIDE	735,053	730,501	136,187	153,628	274,017	166,669	4,552

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

[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.

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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	
3,872	3,872	--	--	1,697	2,175	--
14,797	14,797	--	--	11,341	3,456	--
31,423	31,423	--	--	18,004	13,419	--
224,826	224,826	52,362	6,048	72,249	94,167	--
274,918	274,918	52,362	6,048	103,291	113,217	--
2,771	2,760	1,512	--	432	816	11
15,716	15,716	2,721	--	8,625	4,370	--
36,494	36,494	--	--	19,596	16,898	--
205,497	188,714	93,803	--	67,965	26,946	16,783
260,478	243,684	98,036	--	96,618	49,030	16,794
7,782	7,782	--	--	4,104	3,678	--
21,686	21,686	13,176	8,510	--	--	--
124,695	124,695	46,372	--	78,323	--	--
154,163	154,163	59,548	8,510	82,427	3,678	--
3,623	3,178	2,232	--	298	648	445
--	--	--	--	--	--	--
57,040	57,040	--	--	50,560	6,480	--
60,663	60,218	2,232	--	50,858	7,128	445
2,193	2,193	--	--	2,160	33	--
23,770	23,770	6,696	--	17,074	--	--
85,868	85,868	9,720	--	76,148	--	--
111,831	111,831	16,416	--	95,382	33	--
20,241	19,785	3,744	--	8,691	7,350	456
54,283	54,283	9,417	--	37,040	7,826	--
89,603	89,603	13,176	8,510	37,600	30,317	--
697,926	681,143	202,257	6,048	345,245	127,593	16,783
862,053	844,814	228,594	14,558	428,576	173,086	17,239

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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
Puget Sound							
D	4,825	4,825	--	--	2,704	2,121	--
C	18,994	17,317	--	--	13,189	4,128	1,677
B	39,698	39,698	--	--	14,346	25,352	--
A	268,543	268,543	--	23,220	72,935	172,388	--
Total	332,060	330,383	--	23,220	103,174	203,989	1,677
Olympic Peninsula							
D	3,388	3,388	--	--	2,593	795	--
C	21,252	21,252	--	--	14,792	6,460	--
B	34,477	34,477	--	--	13,436	21,041	--
A	245,651	245,651	--	--	215,207	30,444	--
Total	304,768	304,768	--	--	246,028	58,740	--
Lower Columbia							
D and C [3]	9,295	9,295	258	--	9,030	7	--
B	27,634	27,634	--	--	21,829	5,805	--
A	152,979	152,979	--	--	134,900	18,079	--
Total	189,908	189,908	258	--	165,759	23,891	--
Central Washington							
D and C [3]	4,329	785	9	--	2	774	3,544
B	--	--	--	--	--	--	--
A	68,132	68,132	--	--	57,816	10,316	--
Total	72,461	68,917	9	--	57,818	11,090	3,544
Inland Empire							
D	2,620	2,619	--	--	2,587	32	1
C and B [3]	28,391	28,391	--	--	24,632	3,759	--
A	102,631	102,631	--	--	102,631	--	--
Total	133,642	133,641	--	--	129,850	3,791	1
Total, State							
D [4]	24,457	20,912	267	--	16,916	3,729	3,545
C [4] [5]	68,637	66,960	--	--	52,613	14,347	1,677
B [5]	101,809	101,809	--	--	49,611	52,198	--
A	837,936	837,936	--	23,220	583,489	231,227	--
TOTAL, STATEWIDE	1,032,839	1,027,617	267	23,220	702,629	301,501	5,222

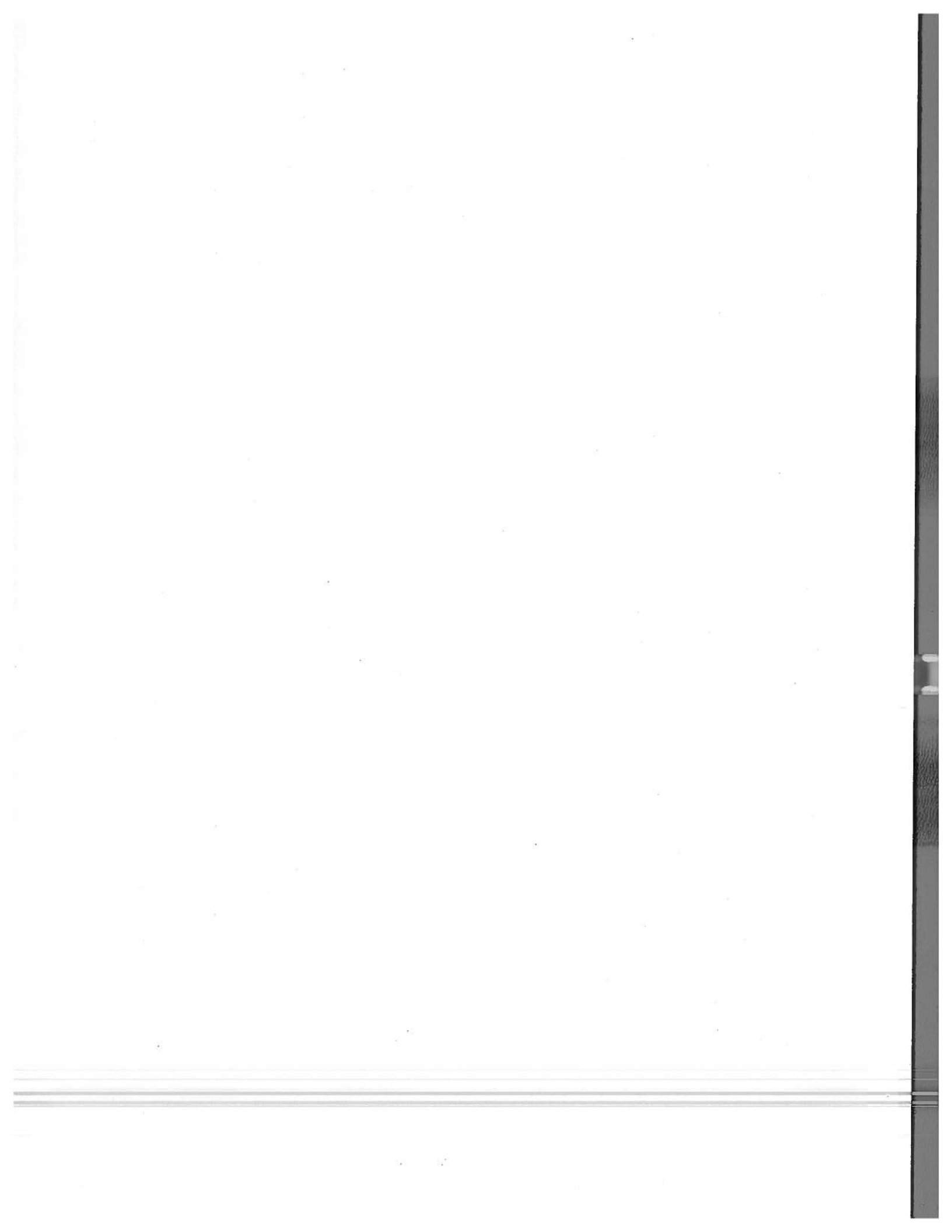
[1] Mill-size classes are defined as follows: Class D mills = less than 40,000 board feet of lumber tally capacity per 8-hour shift; C = 40,000 - 79,999; B = 80,000 - 119,999; A = 120,000+.

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

[3] Combined to avoid disclosure.

[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.



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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
Puget Sound						
King	254,424	254,418	6	200,315	200,309	6
Kitsap/San Juan/ and Whatcom[2]	172,240	172,240	--	135,380	135,380	--
Pierce	497,293	497,293	--	389,220	389,220	--
Skagit	96,404	96,404	--	74,522	74,522	--
Snohomish	486,157	484,480	1,677	375,021	375,021	--
Total	1,506,518	1,504,835	1,683	1,174,458	1,174,452	6
Olympic Peninsula						
Clallam	22,387	22,370	17	17,008	16,991	17
Grays Harbor	214,279	214,279	--	167,271	167,271	--
Jefferson/Pacific[2]	189,702	172,917	16,785	148,520	131,735	16,785
Lewis	462,680	462,680	--	361,474	361,474	--
Mason	455,612	453,980	1,632	357,506	355,874	1,632
Thurston	54,487	50,931	3,556	42,600	39,044	3,556
Total	1,399,147	1,377,157	21,990	1,094,379	1,072,389	21,990
Lower Columbia						
Clark/Klickitat/Skamania [2]	247,119	247,119	--	194,543	194,543	--
Cowlitz	603,421	603,421	--	466,089	466,089	--
Total	850,540	850,540	--	660,632	660,632	--
Central Washington						
Chelan/Yakima [2]	161,358	161,358	--	127,082	127,082	--
Okanogan	179,653	171,348	8,305	141,468	136,707	4,761
Total	341,011	332,706	8,305	268,550	263,789	4,761
Inland Empire						
Asotin/Walla Walla [2]	161,322	161,321	1	126,635	126,635	--
Ferry/Pend Oreille [2]	141,118	141,118	--	110,761	110,761	--
Stevens	321,321	321,321	--	252,723	252,723	--
Total	623,761	623,760	1	490,119	490,119	--
TOTAL, STATEWIDE	4,720,977	4,688,998	31,979	3,688,138	3,661,381	26,757

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

[2] Combined to avoid disclosure.

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Table D-30 (Continued)

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

Bark residue		
Total	Used[1]	Unused
54,109	54,109	--
36,860	36,860	--
108,073	108,073	--
21,882	21,882	--
111,136	109,459	1,677
332,060	330,383	1,677
5,379	5,379	--
47,008	47,008	--
41,182	41,182	--
101,206	101,206	--
98,106	98,106	--
11,887	11,887	--
304,768	304,768	--
52,576	52,576	--
137,332	137,332	--
189,908	189,908	--
34,276	34,276	--
38,185	34,641	3,544
72,461	68,917	3,544
34,687	34,686	1
30,357	30,357	--
68,598	68,598	--
133,642	133,641	1
1,032,839	1,027,617	5,222

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Table D-31

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

Economic area and county	All types						
	Total	Total used[4]	Pulp	Board	Fuel	Other	Unused
Puget Sound							
King	200,315	200,309	110,037	--	141	90,131	6
Kitsap/San Juan/ and Whatcom[5]	135,380	135,380	127,409	--	--	7,971	--
Pierce	389,220	389,220	115,355	25,488	121,941	126,436	--
Skagit	74,522	74,522	41,509	--	10,099	22,914	--
Snohomish	375,021	375,021	232,592	6,512	105,561	30,356	--
Total	1,174,458	1,174,452	626,902	32,000	237,742	277,808	6
Olympic Peninsula							
Clallam	17,008	16,991	5,201	--	10,825	965	17
Grays Harbor	167,271	167,271	56,702	--	72,238	38,331	--
Jefferson/Pacific[5]	148,520	131,735	76,415	--	53,912	1,408	16,785
Lewis	361,474	361,474	278,618	43,428	16,489	22,939	--
Mason	357,506	355,874	231,821	--	117,005	7,048	1,632
Thurston	42,600	39,044	1,944	--	6,169	30,931	3,556
Total	1,094,379	1,072,389	650,701	43,428	276,638	101,622	21,990
Lower Columbia							
Clark/Klickitat/Skamania[5]	194,543	194,543	140,829	25,264	20,964	7,486	--
Cowlitz	466,089	466,089	286,036	14,208	165,824	21	--
Total	660,632	660,632	426,865	39,472	186,788	7,507	--
Central Washington							
Chelan/Yakima[5]	127,082	127,082	16,393	21,568	23,149	65,972	--
Okanogan	141,468	136,707	76,711	--	39,334	20,662	4,761
Total	268,550	263,789	93,104	21,568	62,483	86,634	4,761
Inland Empire							
Asotin/Walla Walla[5]	126,635	126,635	80,200	--	42,454	3,981	--
Ferry/Pend Oreille[5]	110,761	110,761	63,870	9,720	36,467	704	--
Stevens	252,723	252,723	134,780	21,998	95,817	128	--
Total	490,119	490,119	278,850	31,718	174,738	4,813	--
TOTAL, STATEWIDE	3,688,138	3,661,381	2,076,422	168,186	938,389	478,384	26,757

[1] Coarse residue 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.

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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
110,525	110,525	110,037	--	141	347	--
75,291	75,291	75,054	--	--	237	--
220,755	220,755	115,355	--	52,700	52,700	--
43,194	43,194	41,509	--	1,685	--	--
223,310	223,310	175,892	--	43,673	3,745	--
673,075	673,075	517,847	--	98,199	57,029	--
10,987	10,987	3,689	--	6,613	685	--
96,022	96,022	48,062	--	47,960	--	--
83,302	83,300	76,415	--	5,506	1,379	2
200,085	200,085	197,295	--	1,395	1,395	--
200,397	200,397	177,947	--	15,810	6,640	--
24,279	20,723	--	--	5,270	15,453	3,556
615,072	611,514	503,408	--	82,554	25,552	3,558
108,791	108,791	108,281	--	--	510	--
273,157	273,157	232,036	--	41,106	15	--
381,948	381,948	340,317	--	41,106	525	--
70,015	70,015	15,810	--	1,581	52,624	--
78,002	76,594	74,476	--	6	2,112	1,408
148,017	146,609	90,286	--	1,587	54,736	1,408
70,855	70,855	70,853	--	--	2	--
61,934	61,934	54,150	--	7,080	704	--
140,131	140,131	134,780	--	5,270	81	--
272,920	272,920	259,783	--	12,350	787	--
2,091,032	2,086,066	1,711,641	--	235,796	138,629	4,966

SAWMILLS 1992

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
Puget Sound							
King	44,490	44,484	--	--	--	44,484	6
Kitsap/San Juan/ and Whatcom	29,230	29,230	25,913	--	--	3,317	--
Pierce	77,248	77,248	--	19,440	20,100	37,708	--
Skagit	14,113	14,113	--	--	3,079	11,034	--
Snohomish	61,384	61,384	30,780	6,512	13,073	11,019	--
Total	226,465	226,459	56,693	25,952	36,252	107,562	6
Olympic Peninsula							
Clallam	1,518	1,512	--	--	1,512	--	6
Grays Harbor	31,893	31,893	--	--	13,219	18,674	--
Jefferson/Pacific[5]	31,343	31,343	--	--	31,341	2	--
Lewis	70,732	70,732	21,188	43,428	6,116	--	--
Mason	74,974	73,342	28,069	--	44,865	408	1,632
Thurston	8,369	8,369	--	--	413	7,956	--
Total	218,829	217,191	49,257	43,428	97,466	27,040	1,638
Lower Columbia							
Clark/Klickitat/Skamania[5]	41,163	41,163	--	25,264	12,595	3,304	--
Cowlitz	83,358	83,358	27,000	5,698	50,660	--	--
Total	124,521	124,521	27,000	30,962	63,255	3,304	--
Central Washington							
Chelan/Yakima[5]	28,371	28,371	583	21,568	--	6,220	--
Okanogan	31,499	28,591	3	--	10,038	18,550	2,908
Total	59,870	56,962	586	21,568	10,038	24,770	2,908
Inland Empire							
Asotin/Walla Walla[5]	26,739	26,739	2,651	--	20,110	3,978	--
Ferry/Pend Oreille[5]	23,467	23,467	--	9,720	13,747	--	--
Stevens	55,162	55,162	--	21,998	33,149	15	--
Total	105,368	105,368	2,651	31,718	67,006	3,993	--
TOTAL, STATEWIDE	735,053	730,501	136,187	153,628	274,017	166,669	4,552

[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 1992

Table D-31 (Continued)

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

Total	Fine[3]					
	Total used[4]	Pulp	Board	Fuel	Other	Unused
45,300	45,300	--	--	--	45,300	--
30,859	30,859	26,442	--	--	4,417	--
91,217	91,217	--	6,048	49,141	36,028	--
17,215	17,215	--	--	5,335	11,880	--
90,327	90,327	25,920	--	48,815	15,592	--
274,918	274,918	52,362	6,048	103,291	113,217	--
4,503	4,492	1,512	--	2,700	280	11
39,356	39,356	8,640	--	11,059	19,657	--
33,875	17,092	--	--	17,065	27	16,783
90,657	90,657	60,135	--	8,978	21,544	--
82,135	82,135	25,805	--	56,330	--	--
9,952	9,952	1,944	--	486	7,522	--
260,478	243,684	98,036	--	96,618	49,030	16,794
44,589	44,589	32,548	--	8,369	3,672	--
109,574	109,574	27,000	8,510	74,058	6	--
154,163	154,163	59,548	8,510	82,427	3,678	--
28,696	28,696	--	--	21,568	7,128	--
31,967	31,522	2,232	--	29,290	--	445
60,663	60,218	2,232	--	50,858	7,128	445
29,041	29,041	6,696	--	22,344	1	--
25,360	25,360	9,720	--	15,640	--	--
57,430	57,430	--	--	57,398	32	--
111,831	111,831	16,416	--	95,382	33	--
862,053	844,814	228,594	14,558	428,576	173,086	17,239

SAWMILLS 1992

Table D-32

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

Economic area and county	Used [1]						
	Total	Total used	Pulp	Board	Fuel	Other	Unused
Puget Sound							
King	54,109	54,109	--	--	--	54,109	--
Kitsap/San Juan/ and Whatcom[2]	36,860	36,860	--	--	15,908	20,952	--
Pierce	108,073	108,073	--	--	52,139	55,934	--
Skagit	21,882	21,882	--	--	7,692	14,190	--
Snohomish	111,136	109,459	--	23,220	27,435	58,804	1,677
Total	332,060	330,383	--	23,220	103,174	203,989	1,677
Olympic Peninsula							
Clallam	5,379	5,379	--	--	5,044	335	--
Grays Harbor	47,008	47,008	--	--	23,529	23,479	--
Jefferson/Pacific[2]	41,182	41,182	--	--	41,150	32	--
Lewis	101,206	101,206	--	--	81,037	20,169	--
Mason	98,106	98,106	--	--	90,366	7,740	--
Thurston	11,887	11,887	--	--	4,902	6,985	--
Total	304,768	304,768	--	--	246,028	58,740	--
Lower Columbia							
Clark/Klickitat/Skamania[2]	52,576	52,576	--	--	42,643	9,933	--
Cowlitz	137,332	137,332	258	--	123,116	13,958	--
Total	189,908	189,908	258	--	165,759	23,891	--
Central Washington							
Chelan/Yakima[2]	34,276	34,276	--	--	23,186	11,090	--
Okanogan	38,185	34,641	9	--	34,632	--	3,544
Total	72,461	68,917	9	--	57,818	11,090	3,544
Inland Empire							
Asotin/Walla Walla[2]	34,687	34,686	--	--	30,927	3,759	1
Ferry/Pend Oreille[2]	30,357	30,357	--	--	30,357	--	--
Stevens	68,598	68,598	--	--	68,566	32	--
Total	133,642	133,641	--	--	129,850	3,791	1
TOTAL, STATEWIDE	1,032,839	1,027,617	267	23,220	702,629	301,501	5,222

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

[2] Combined to avoid disclosure.

SAWMILLS 1992

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
Puget Sound						
D and C[2]	63,155	21,792	--	84,947	48,781	36,166
B	60,729	79,736	2,000	142,465	38,025	104,440
A	695,410	345,460	--	1,040,870	133,820	907,050
Total	819,294	446,988	2,000	1,268,282	220,626	1,047,656
Olympic Peninsula						
D	11,542	1,200	20	12,762	4,014	8,748
C	38,660	30,380	1,260	70,300	34,250	36,050
B	75,410	89,790	--	165,200	93,410	71,790
A	371,633	579,557	--	951,190	55,915	895,275
Total	497,245	700,927	1,280	1,199,452	187,589	1,011,863
Lower Columbia						
D and C[2]	36,030	--	--	36,030	20,730	15,300
B	42,350	55,650	--	98,000	13,250	84,750
A	387,439	185,850	--	573,289	97,978	475,311
Total	465,819	241,500	--	707,319	131,958	575,361
Central Washington						
D and C[2]	7,809	48	8,930	16,787	161	16,626
B	--	--	--	--	--	--
A	16,355	247,731	--	264,086	3,510	260,576
Total	24,164	247,779	8,930	280,873	3,671	277,202
Inland Empire						
D, C and B[2]	13,812	101,546	4,860	120,218	8,697	111,521
A	23,461	374,031	--	397,492	21,174	376,318
Total	37,273	475,577	4,860	517,710	29,871	487,839
Total, State						
D[3]	132,348	124,586	13,810	270,744	82,383	188,361
C[3][4]	38,660	30,380	1,260	70,300	34,250	36,050
B[3][4]	178,489	225,176	2,000	405,665	144,685	260,980
A	1,494,298	1,732,629	--	3,226,927	312,397	2,914,530
TOTAL, STATEWIDE	1,843,795	2,112,771	17,070	3,973,636	573,715	3,399,921

- [1] Mill size-class defined as follows: Class D mills = less than 40,000 board feet of lumber tally 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 Puget Sound, Lower Columbia, Central Washington and Inland Empire, and Class B for Inland Empire.
- [4] Total for Class C includes Class C for Inland Empire, Class D for Inland Empire and Class B for Inland Empire.

SAWMILLS 1992

Table D-34

Lumber Production by Headrig Type and Mill-Size Class (Thousand board feet, Lumber tally)

Economic area and mill-size class	All types	Circular saw	Band saw	Gang saw	Chipping saw	Scragg double cut saw
Puget Sound						
D	17,747	11,580	6,167	--	--	--
C	67,200	--	61,570	--	3,030	2,600
B	142,465	--	93,483	33,582	15,400	--
A	1,040,870	87,162	645,306	80,000	171,685	56,717
Total	1,268,282	98,742	806,526	113,582	190,115	59,317
Olympic Peninsula						
D	12,762	11,372	1,390	--	--	--
C	70,300	--	70,300	--	--	--
B	165,200	54,200	82,800	28,200	--	--
A	951,190	111,000	649,077	57,697	90,500	42,916
Total	1,199,452	176,572	803,567	85,897	90,500	42,916
Lower Columbia						
D and C[2]	36,030	3,730	17,000	--	--	15,300
B	98,000	--	79,500	14,800	3,700	--
A	573,289	--	475,534	--	97,755	--
Total	707,319	3,730	572,034	14,800	101,455	15,300
Central Washington						
D and C[2]	16,787	--	13,053	--	3,734	--
B	--	--	--	--	--	--
A	264,086	66,800	197,286	--	--	--
Total	280,873	66,800	210,339	--	3,734	--
Inland Empire						
D	10,161	10,161	--	--	--	--
C and B[2]	110,057	5,350	104,707	--	--	--
A	397,492	58,760	301,632	--	37,100	--
Total	517,710	74,271	406,339	--	37,100	--
Total, State						
D[3]	93,487	36,843	37,610	--	3,734	15,300
C[4]	247,557	5,350	236,577	--	3,030	2,600
B[4]	405,665	54,200	255,783	76,582	19,100	--
A	3,226,927	323,722	2,268,835	137,697	397,040	99,633
TOTAL, STATEWIDE	3,973,636	420,115	2,798,805	214,279	422,904	117,533

[1] Mill-size classes identified as follows: Class D mills = less than 40,000 board feet of lumber tally 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.

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Table D-35

Lumber Production by Headrig Type and County
(Thousand board feet, Lumber tally)

Economic area and county	All types	Circular saw	Band saw	Gang saw	Chipping saw	Scragg double cut saw
Puget Sound						
Kitsap/San Juan/ and Whatcom[1]	142,869	450	37,484	--	104,935	--
King	209,730	72,930	136,800	--	--	--
Pierce	422,311	15,162	262,032	80,000	8,400	56,717
Skagit	78,400	100	61,520	--	16,780	--
Snohomish	414,972	10,100	308,690	33,582	60,000	2,600
Total	1,268,282	98,742	806,526	113,582	190,115	59,317
Olympic Peninsula						
Clallam	20,851	9,961	10,890	--	--	--
Grays Harbor	182,206	6	136,700	--	45,500	--
Jefferson/Pacific[1]	156,130	122,130	34,000	--	--	--
Lewis	413,928	44,400	298,412	28,200	--	42,916
Mason	380,262	--	322,565	57,697	--	--
Thurston	46,075	75	1,000	--	45,000	--
Total	1,199,452	176,572	803,567	85,897	90,500	42,916
Lower Columbia						
Clark/Klickitat/Skamania[1]	206,436	--	206,436	--	--	--
Cowlitz	500,883	3,730	365,598	14,800	101,455	15,300
Total	707,319	3,730	572,034	14,800	101,455	15,300
Central Washington						
Chelan/Yakima[1]	132,856	--	129,856	--	3,000	--
Okanogan	148,017	66,800	80,483	--	734	--
Total	280,873	66,800	210,339	--	3,734	--
Inland Empire						
Asotin/Walla Walla[1]	134,452	5	134,447	--	--	--
Ferry/Pend Oreille[1]	117,350	64,110	53,240	--	--	--
Stevens	265,908	10,156	218,652	--	37,100	--
Total	517,710	74,271	406,339	--	37,100	--
TOTAL, STATEWIDE	3,973,636	420,115	2,798,805	214,279	422,904	117,533

[1] Combined to avoid disclosure.

VENEER AND PLYWOOD MILLS 1992

Table D-36

Number of Veneer and Plywood Mills

Economic area and county	All types	Veneer only	Layup only	Veneer and layup
Puget Sound				
Pierce	1	--	1	--
Skagit	2	--	2	--
Whatcom	1	--	--	1
Total	4	--	3	1
Olympic Peninsula				
Clallam	1	--	--	1
Grays Harbor	4	2	1	1
Jefferson	1	1	--	--
Lewis	2	2	--	--
Mason	1	--	--	1
Thurston	2	1	1	--
Total	11	6	2	3
Lower Columbia				
Clark	1	--	--	1
Klickitat	1	--	--	1
Total	2	--	--	2
Central Washington				
Okanogan	1	--	--	1
Yakima	1	--	--	1
Total	2	--	--	2
Inland Empire				
Stevens	1	--	--	1
Total	1	--	--	1
TOTAL, STATEWIDE	20	6	5	9

VENEER AND PLYWOOD MILLS 1992

Table D-37

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

Economic area and county	Type of operation			
	Veneer only	Layup only	Veneer and layup	
			Veneer	Layup
Puget Sound				
Pierce	--	160	--	--
Skagit	--	380	--	--
Whatcom	--	--	170	133
Total	--	540	170	133
Olympic Peninsula				
Clallam	--	--	100	150
Grays Harbor	142	225	125	75
Jefferson	44	--	--	--
Lewis	295	--	--	--
Mason	--	--	250	200
Thurston	75	225	--	--
Total	556	450	475	425
Lower Columbia				
Clark	--	--	125	500
Klickitat	--	--	300	300
Total	--	--	425	800
Central Washington				
Okanogan	--	--	300	275
Yakima	--	--	220	225
Total	--	--	520	500
Inland Empire				
Stevens	--	--	256	256
Total	--	--	256	256
TOTAL, STATEWIDE	556	990	1,846	2,114

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VENEER AND PLYWOOD 1992

Table D-38

Number of Veneer and Plywood Mills by Lathe Log Diameter Limit

Economic area	Layup only	Lathe log diameter limit in inches								Total
		10-19	20-29	30-39	40-49	50-59	60-69	70-79	80+	
Puget Sound	3	--	--	--	--	--	1	--	--	4
Olympic Peninsula	2	--	2	1	1	--	3	--	2	11
Lower Columbia	--	--	--	1	--	--	--	--	1	2
Central Washington	--	--	--	2	--	--	--	--	--	2
Inland Empire	--	--	1	--	--	--	--	--	--	1
TOTAL, STATEWIDE	5	--	3	4	1	--	4	--	3	20

Table D-39

Number of Veneer and Plywood Mills by Minimum Core Size Produced

Economic area	Lathe log diameter limit in inches									No lathe or core	Total
	3	4	5	6	7	8	9	10	11		
Puget Sound	--	--	1	--	--	--	--	--	--	3	4
Olympic Peninsula	--	3	--	2	1	--	--	--	--	5	11
Lower Columbia	--	--	1	--	--	--	--	--	--	1	2
Central Washington	--	1	1	--	--	--	--	--	--	--	2
Inland Empire	--	--	--	--	--	--	--	--	--	1	1
TOTAL, STATEWIDE	--	4	3	2	1	--	--	--	--	10	20

VENEER AND PLYWOOD MILLS 1992

Table D-40

Number of Veneer and Plywood Mills Having Selected Equipment

Economic area and county	4-foot lathe	8-foot lathe	Slicer	Veneer chipper	Core chipper	Cold press	Hot press	Burner
Puget Sound								
Pierce	--	--	--	--	--	--	1	--
Skagit	--	--	--	--	--	1	2	--
Whatcom	1	1	--	1	1	--	1	1
Total	1	1	--	1	1	1	4	1
Olympic Peninsula								
Clallam	1	1	--	1	1	--	1	1
Grays Harbor	2	2	--	3	2	1	2	--
Jefferson	--	1	--	1	1	--	--	--
Lewis	1	2	--	1	--	--	--	--
Mason	--	1	--	1	1	--	1	--
Thurston	1	--	--	--	--	--	1	--
Total	5	7	--	7	5	1	5	1
Lower Columbia								
Clark	1	1	--	1	1	--	1	--
Klickitat	1	1	--	1	1	--	1	--
Total	2	2	--	2	2	--	2	--
Central Washington								
Okanogan	--	1	--	1	1	--	1	--
Yakima	--	1	--	1	1	--	1	--
Total	--	2	--	2	2	--	2	--
Inland Empire								
Stevens	--	1	--	1	1	1	1	--
Total	--	1	--	1	1	1	1	--
TOTAL, STATEWIDE	8	13	--	13	11	3	14	2

veneER AND PLYWOOD 1992

Table D-41

Number of Veneer and Plywood Mills by Tenure of Present Ownership and Site Occupancy

Economic area and site occupancy (years)	All mills	Tenure of present mill ownership (years)				
		0-2	3-5	6-10	11-20	21+
Puget Sound						
3-5	1	--	1	--	--	--
6-10	1	--	1	--	--	--
21+	2	--	1	--	--	1
Total	4	--	3	--	--	1
Olympic Peninsula						
3-5	1	--	1	--	--	--
21+	10	--	2	--	2	6
Total	11	--	3	--	2	6
Lower Columbia						
21+	2	--	--	--	--	2
Total	2	--	--	--	--	2
Central Washington						
21+	2	--	1	--	--	1
Total	2	--	1	--	--	1
Inland Empire						
21+	1	--	--	--	--	1
Total	1	--	--	--	--	1
Total, State						
3-5	2	--	2	--	--	--
6-10	1	--	1	--	--	--
11-20	--	--	--	--	--	--
21+	17	--	4	--	2	11
TOTAL, STATEWIDE	20	--	7	--	2	11

VENEER AND PLYWOOD 1992

Table D-42

Average Number of Operating Days

Economic area	Veneer only	Layup only	Veneer and layup
Puget Sound	--	254 [1]	275 [2]
Olympic Peninsula	196	[1]	254
Lower Columbia	--	--	[2]
Central Washington / and Inland Empire [3]	--	--	286
STATEWIDE AVERAGE	196	254	272

[1] Layup for the Olympic Peninsula combined with Puget Sound to avoid disclosure.

[2] Veneer and plywood for Lower Columbia combined with Puget Sound to avoid disclosure.

[3] Central Washington and Inland Empire combined to avoid disclosure.

Table D-43

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

Economic area	Log inventory			1992 log consumption	Apparent 1992 log receipts
	January 1, 1992	December 31, 1992	Net change		
Puget Sound/ Olympia Peninsula / & Lower Columbia [1]	14,335	13,777	(558)	147,057	146,499
Central Washington/ Inland Empire [1]	36,966	26,682	(10,284)	135,297	125,013
STATEWIDE AVERAGE	51,301	40,459	(10,842)	282,354	271,512

[1] Combined to avoid disclosure.

ENEER AND PLYWOOD 1992

Table D-44

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

Economic area	Total	Total used[1]	Used [1]				Unused
			Pulp	Board	Fuel	Other	
Puget Sound/ Olympic Peninsula/ & Lower Columbia [2]							
Coarse [3]	210,798	210,798	173,852	3,760	9,881	23,305	--
Medium [4]	73,891	73,690	--	2,860	70,830	--	201
Fine [5]	18,473	18,473	--	--	18,473	--	--
Total	303,162	302,961	173,852	6,620	99,184	23,305	201
Central Washington/ Inland Empire[2]							
Coarse [3]	176,883	176,883	172,413	--	--	4,470	--
Medium [4]	42,844	42,844	--	11,000	31,844	--	--
Fine [5]	10,711	10,711	--	--	10,711	--	--
Total	230,438	230,438	172,413	11,000	42,555	4,470	--
Total, State							
Coarse [3]	387,681	387,681	346,265	3,760	9,881	27,775	--
Medium [4]	116,735	116,534	--	13,860	102,674	--	201
Fine [5]	29,184	29,184	--	--	29,184	--	--
TOTAL, STATEWIDE	533,600	533,399	346,265	17,620	141,739	27,775	201

[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 1992

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]	--	387,580 [3]
Olympic Peninsula Clallam/Grays Harbor/Jefferson/ Lewis/Mason/Thurston[2]	240,763 [4]	452,077
Lower Columbia Clark/Klickitat[2]	--	[3]
Central Washington/ Inland Empire Okanogan/Yakima/ Stevens[2]	[4]	486,863
TOTAL, STATEWIDE	240,763	1,326,520

[1] Includes hardwood and softwood faced plywood.

[2] Combined to avoid disclosure.

[3] Plywood from Lower Columbia combined with Puget Sound to avoid disclosure.

[4] Veneer from Central Washington combined with Olympic Peninsula to avoid disclosure.

PULP MILLS 1992

Table D-46

Number of Pulp Mills [1]

Economic area and county	All mills	Sulfite	Sulfate	Ground- wood	Semi- Chemical
Puget Sound					
Pierce	2	--	1	1	--
Snohomish	2	1	1	--	--
Whatcom	2	1	--	--	1

Total	6	2	2	1	1
Olympic Peninsula					
Clallam	2	1	--	1	--
Grays Harbor	2	2	--	--	--
Jefferson	1	--	1	--	--

Total	5	3	1	1	--
Lower Columbia					
Clark	2	1	1	--	--
Cowlitz	5	--	2	1	2

Total	7	1	3	1	2
Inland Empire					
Pend Oreille	1	--	--	1	--
Spokane	1	--	--	1	--
Walla Walla	2	--	1	--	1

Total	4	--	1	2	1
TOTAL, STATEWIDE					
	22	6	7	5	4

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

PULP MILLS 1992

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
Puget Sound					
Pierce	1,647	--	1,172	475	--
Snohomish	835	450	385	--	--
Whatcom	618	605	--	--	13
Total	3,100	1,055	1,557	475	13
Olympic Peninsula					
Clallam	1,630	1,230	--	400	--
Grays Harbor	930	930	--	--	--
Jefferson	518	--	518	--	--
Total	3,078	2,160	518	400	--
Lower Columbia					
Clark	1,286	336	950	--	--
Cowlitz	5,481	--	3,902	1,260	319
Total	6,767	336	4,852	1,260	319
Inland Empire					
Pend Oreille	580	--	--	580	--
Spokane	220	--	--	220	--
Walla Walla	1,373	--	1,092	--	281
Total	2,173	--	1,092	800	281
TOTAL, STATEWIDE	15,118	3,551	8,019	2,935	613

[1] 24-hour capacity

PULP MILLS 1992

Table D-48

Number of Pulp Mills by Tenure of Present Ownership and Site Occupancy

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+	--	--	3	--	4
Groundwood 0-2	--	1	--	--	--
11-20	--	--	--	1	--
21+	--	1	--	--	2
Semichemical 21+	--	--	--	--	4
TOTAL, STATEWIDE	--	2	4	1	15

Table D-49

Average Number of Operating Days

Economic Area	Pulp
Puget Sound	316
Olympic Peninsula	338
Lower Columbia	348
Inland Empire	360
STATEWIDE AVERAGE	339

PULP MILLS 1992

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	969,403	167,400	73,467	269,428	148,500	310,608
Olympic Peninsula	578,639	--	100	77,252	132,093	369,194
Lower Columbia and Inland Empire[1]	3,034,745	860,083	1,029,348	1,020,023	--	125,291
TOTAL, STATEWIDE	4,582,787	1,027,483	1,102,915	1,366,703	280,593	805,093

Type of Operation, Statewide

Sulfite	785,686	--	139,521	5,169	148,500	492,496
Sulfate	2,437,443	--	960,924	1,163,922	--	312,597
Groundwood	1,159,576	1,027,483	--	--	132,093	--
Semichemical	200,082	--	2,470	197,612	--	--
TOTAL, STATEWIDE	4,582,787	1,027,483	1,102,915	1,366,703	280,593	805,093

[1] Combined to avoid disclosure.

PULP MILLS 1992

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
Puget Sound and Lower Columbia [1]								
Total logs [2]	112,112	4,053	71,822	13,127	145	--	--	22,965
Puget Sound Chips [3]								
Roundwood	799,321	30,724	487,137	137,599	4,341	--	77,830	61,690
Residues [4]	1,086,714							
Total chips	1,886,035							
Olympic Peninsula								
Total logs	192,209	25,669	154,187	4,860	6,620	873	--	--
Chips [3]								
Roundwood	515,626	20,397	428,473	9,127	9,264	--	--	48,365
Residues [4]	691,642							
Total chips	1,207,268							
Inland Empire								
Total logs	--	--	--	--	--	--	--	--
Lower Columbia and Inland Empire [5]								
Chips [3]								
Roundwood	1,113,211	144,329	237,351	177,667	35,250	183,034	152,570	183,010
Residues [4]	3,354,484							
Total chips	4,467,695							
TOTAL, STATEWIDE								
Total logs [1]	304,321	29,722	226,009	17,987	6,765	873	--	22,965
Chips [3]								
Roundwood	2,428,158	195,450	1,152,961	324,393	48,855	183,034	230,400	293,065
Residues [4]	5,132,840							
Total chips	7,560,998							

[1] Roundwood from the Lower Columbia combined with Puget Sound to avoid disclosure.

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

[3] Chip volume, bone dry tons.

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

[5] Combined to avoid disclosure.

PULP MILLS 1992

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
Puget Sound						
Chip residue[1]	1,086,714					
Chip roundwood	799,321	445,848	--	--	342,988	10,485
Sawdust and shavings	29,000	29,000	--	--	--	--
Total	1,915,035 [2]	474,848	--	--	342,988	10,485
Olympic Peninsula						
Chip residue[1]	691,642					
Chip roundwood	515,626	468,974	3,042	--	33,468	10,142
Sawdust and shavings	31,132	27,665	--	--	3,467	--
Total	1,238,400 [2]	496,639	3,042	--	36,935	10,142
Lower Columbia/ Inland Empire[3]						
Chip residue[1]	3,354,484					
Chip roundwood	1,113,211	368,478	562,811	152,194	2,720	27,008
Sawdust and shavings	345,776	129,671	173,772	42,333	--	--
Total	4,813,471 [2]	498,149	736,583	194,527	2,720	27,008
Total, State						
Chip residue[1]	5,132,840					
Chip roundwood	2,428,158	1,283,300	565,853	152,194	379,176	47,635
Sawdust and shavings	405,908	186,336	173,772	42,333	3,467	--
TOTAL, STATEWIDE	7,966,906 [2]	1,469,636	739,625	194,527	382,643	47,635

[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 1992

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 [2]	6	281	80	20	86
Skagit	5	455	152	20	93
Total	11	736	232	40	89
Olympic Peninsula					
Clallam	11	420	335	13	175
Grays Harbor	16	513	185	116	176
Jefferson/ Pacific/ and Thurston [2]	3	96	--	--	120
Lewis	5	88	30	16	130
Total	35	1,117	550	145	165
Lower Columbia/Central Washington[2]					
Clark/ Cowlitz/ Wahkiakum/ and Okanogan [2]	4	275	60	--	105
Total	4	275	60	--	105
TOTAL, STATEWIDE	50	2,128	842	185	143

[1] Eight-hour shift capacity.

[2] Combined to avoid disclosure.

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SHAKE AND SHINGLE MILLS 1992

Table D-55

Number of Shake and Shingle Mills with Selected Equipment

Economic area and county	Chipper	Barker	Burner
<hr/>			
Puget Sound			
King	--	--	--
Skagit	--	--	3
Snohomish	3	--	1

Total	3	--	4
<hr/>			
Olympic Peninsula			
Clallam	--	--	10
Grays Harbor	4	--	3
Jefferson	--	--	1
Lewis	2	--	--
Pacific	--	--	1
Thurston	--	--	--

Total	6	--	15
<hr/>			
Lower Columbia			
Clark	--	--	--
Cowlitz	1	--	--
Wahkiakum	--	--	--

Total	1	--	--
<hr/>			
Central Washington			
Okanogan	--	--	--

Total	--	--	--
<hr/>			
TOTAL, STATEWIDE	10	--	19

SHAKE AND SHINGLE MILLS 1992

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	6	--	--	3	2	1
11-20	22	1	--	3	18	--
21+	19	--	1	1	4	13
TOTAL, STATEWIDE	50	1	2	7	25	15

SHAKE AND SHINGLE MILLS 1992

Table D-57

Type of Wood Consumed

(Thousand board feet, Scribner log rule)

Economic area and county	All types	Sound logs	Utility logs	Other
Puget Sound				
King/Snohomish[1]	1,678	1,506	45	127
Skagit	2,655	2,362	41	252
Total	4,333	3,868	86	379
Olympic Peninsula				
Clallam	6,204	4,392	332	1,480
Grays Harbor	10,322	6,712	645	2,965
Jefferson/ Pacific/Thurston[1]	577	400	100	77
Lewis	902	--	345	557
Total	18,005	11,504	1,422	5,079
Lower Columbia/Central Washington[1]				
Clark/Cowlitz/ Wahkiakum/Okanogan[1]	1,038	321	57	660
Total	1,038	321	57	660
TOTAL, STATEWIDE	23,376	15,693	1,565	6,118

[1] Combined to avoid disclosure.

SHAKE AND SHINGLE 1992

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	Forest Industry		Farmer and miscellaneous private	
					Other public	Other wood supply		
Puget Sound								
King/Snohomish[1]	1,551	540	361	--	250	--	275	125
Skagit	2,403	83	1,166	--	--	--	1,073	81
Total	3,954	623	1,527	--	250	--	1,348	206
Olympic Peninsula								
Clallam	4,724	3,231	90	--	--	--	1,403	--
Grays Harbor	7,357	2,728	1,974	50	1,775	--	300	530
Jefferson/ Pacific/Thurston[1]	500	100	200	--	--	--	200	--
Lewis	345	--	90	--	--	10	245	--
Total	12,926	6,059	2,354	50	1,775	10	2,148	530
Lower Columbia/Central Washington[1]								
Clark/Cowlitz/ Wahkiakum/Okanogan	378	5	--	300	--	--	21	52
Total	378	5	--	300	--	--	21	52
TOTAL, STATEWIDE	17,258	6,687	3,881	350	2,025	10	3,517	788

[1] Combined to avoid disclosure.

SHAKE AND SHINGLE 1992

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
Puget Sound						
King/Snohomish[2]	1,573	1,565	8	1,225	1,217	8
Skagit	3,402	4	3,398	2,515	4	2,511
Total	4,975	1,569	3,406	3,740	1,221	2,519
Olympic Peninsula						
Clallam	8,025	--	8,025	6,467	--	6,467
Grays Harbor	9,884	6,080	3,804	7,317	4,573	2,744
Jefferson/ Pacific/Thurston[2]	515	23	492	347	23	324
Lewis	157	146	11	126	119	7
Total	18,581	6,249	12,332	14,257	4,715	9,542
Lower Columbia/Central Washington[2]						
Clark/Cowlitz/ Wahkiakum/Okanogan	619	619	--	525	525	--
Total	619	619	--	525	525	--
TOTAL, STATEWIDE	24,175	8,437	15,738	18,522	6,461	12,061

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

[2] Combined to avoid disclosure.

SHAKE AND SHINGLE 1992

Table D-59 (Continued)

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

Bark residue		
Total	Used[1]	Unused
348	348	--
887	--	887
1,235	348	887
1,558	--	1,558
2,567	1,507	1,060
168	--	168
31	27	4
4,324	1,534	2,790
94	94	--
94	94	--
5,653	1,976	3,677

SHAKE AND SHINGLE 1992

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
Puget Sound						
King/Snohomish[2]	1,225	1,217	--	680	537	8
Skagit	2,515	4	--	--	4	2,511
Total	3,740	1,221	--	680	541	2,519
Olympic Peninsula						
Clallam	6,467	--	--	--	--	6,467
Grays Harbor	7,317	4,573	--	3,014	1,559	2,744
Jefferson/ Pacific/Thurston[3]	347	23	--	--	23	324
Lewis	126	119	--	42	77	7
Total	14,257	4,715	--	3,056	1,659	9,542
Lower Columbia/Central Washington[3]						
Clark/Cowlitz/ Wahkiakum/Okanogan	525	525	--	415	110	--
Total	525	525	--	415	110	--
TOTAL, STATEWIDE	18,522	6,461	--	4,151	2,310	12,061

[1] End block trim, spalts (residues of shingle bolts).

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

[3] Combined to avoid disclosure.

SHAKE AND SHINGLE 1992

Table D-60 (Continued)

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

Coarse[1]					
Total	Total used[2]	Pulp	Fuel	Other	Unused
440	440	--	387	53	--
754	2	--	--	2	752
1,194	442	--	387	55	752
1,810	--	--	--	--	1,810
2,746	1,643	--	1,018	625	1,103
167	9	--	--	9	158
54	51	--	13	38	3
4,777	1,703	--	1,031	672	3,074
213	213	--	159	54	--
213	213	--	159	54	--
6,184	2,358	--	1,577	781	3,826

SHAKE AND SHINGLE 1992

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
Puget Sound						
King/Snohomish[2]	785	777	--	293	484	8
Skagit	1,761	2	--	--	2	1,759
Total	2,546	779	--	293	486	1,767
Olympic Peninsula						
Clallam	4,657	--	--	--	--	4,657
Grays Harbor	4,571	2,930	--	1,996	934	1,641
Jefferson/ Pacific/Thurston[3]	180	14	--	--	14	166
Lewis	72	68	--	29	39	4
Total	9,480	3,012	--	2,025	987	6,468
Lower Columbia/Central Washington[3]						
Clark/Cowlitz/ Wahkiakum/Okanogan	312	312	--	256	56	--
Total	312	312	--	256	56	--
TOTAL, STATEWIDE	12,338	4,103	--	2,574	1,529	8,235

[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 1992

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[2]	348	348	--	129	219	--
Skagit	887	--	--	--	--	887
Total	1,235	348	--	129	219	887
Olympic Peninsula						
Clallam	1,558	--	--	--	--	1,558
Grays Harbor	2,567	1,507	--	1,257	250	1,060
Jefferson/ Pacific/Thurston[2]	168	--	--	--	--	168
Lewis	31	27	--	3	24	4
Total	4,324	1,534	--	1,260	274	2,790
Lower Columbia/Central Washington[2]						
Clark/Cowlitz/ Wahkiakum/Okanogan	94	94	--	86	8	--
Total	94	94	--	86	8	--
TOTAL, STATEWIDE	5,653	1,976	--	1,475	501	3,677

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

[2] Combined to avoid disclosure.

SHAKE AND SHINGLE MILLS 1992

Table D-62

Mill Production by Product Class

Economic area and county	Product class			Total
	Shakes	Shingles	Other [1]	
	----- Squares -----			
Puget Sound				
King/Snohomish[2]	13,573	6,260	138	19,971
Skagit	15,552	18,700	40	34,292
Total	29,125	24,960	178	54,263
Olympic Peninsula				
Clallam	28,694	53,139	481	82,314
Grays Harbor	83,951	32,698	8,137	124,786
Jefferson/ Pacific/Thurston[2]	7,500	100	--	7,600
Lewis	1,680	300	500	2,480
Total	121,825	86,237	9,118	217,180
Lower Columbia/Central Washington[2]				
Clark/Cowlitz/ Wahkiakum/Okanogan[2]	7,950	1,730	--	9,680
Total	7,950	1,730	--	9,680
TOTAL, STATEWIDE	158,900	112,927	9,296	281,123

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

[2] Combined to avoid disclosure.

POST, POLE AND PILING MILLS 1992

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 1992[1]	
		Peeling	Treatment	Peeling	Treatment
Puget Sound	4	16,968	20,389 [3]	153 (4)	306 (4) [3]
Olympic Peninsula/ Lower Columbia[2]	4	43,900	[3]	152 (4)	[3]
Inland Empire	3	8,785	5,075	140 (3)	157 (3)
TOTAL, STATEWIDE	11	69,653	25,464	149 (11)	242 (7)

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

[2] Combined to avoid disclosure.

[3] One mill from the Lower Columbia combined with three mills from the Puget Sound Area to avoid disclosure.

POST, POLE AND PILING MILLS 1992

Table D-64

Number of Post, Pole and Piling Mills

by Tenure of Present Ownership and Site Occupancy

Years of site occupancy	Tenure of mill ownership in years					
	Total	0-2	3-5	6-10	11-20	21+
3-5	1	--	1	--	--	--
6-10	1	--	--	1	--	--
11-20	2	--	--	--	2	--
21+	7	--	1	1	1	4
TOTAL, STATEWIDE	11	--	2	2	3	4

POST, POLE AND PILING MILLS 1992

Table D-65

Number of Post, Pole and Piling Mills with Selected Equipment

Economic area and county	Number of mills	Chipper	Peeler	Burner
Puget Sound				
King	1	--	1	--
Pierce	1	--	1	1
Snohomish	1	--	1	1
Whatcom	1	--	1	1
Total	4	--	4	3
Olympic Peninsula				
Lewis	1	--	1	--
Mason	1	--	1	--
Thurston	1	--	1	--
Total	3	--	3	--
Lower Columbia				
Clark	1	--	1	1
Total	1	--	1	1
Inland Empire				
Stevens	3	--	3	1
Total	3	--	3	1
TOTAL, STATEWIDE	11	--	11	5

POST, POLE AND PILING MILLS 1992

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)
Puget Sound			
King/Pierce/Snohomish/ Whatcom[1]	9,096	7	9,089
Total	9,096	7	9,089
Olympic Peninsula/ Lower Columbia			
Clark/ Lewis/ Mason/Thurston[1]	25,831	--	25,831
Total	25,831	--	25,831
Inland Empire			
Stevens	1,140	--	1,140
Total	1,140	--	1,140
TOTAL, STATEWIDE	36,067	7	36,060

[1] Combined to avoid disclosure.

POST, POLE AND PILING MILLS 1992

Table D-67

Mill Production Shipments

(Thousand board feet, Scribner log rule)

Shipments

Economic area	Treated	Untreated	Total
Puget Sound	8,791	1,683	10,474
Olympic Peninsula/ Lower Columbia[1]	15,900	10,231	26,131
Inland Empire	640	500	1,140
TOTAL, STATEWIDE	25,331	12,414	37,745

[1] Combined to avoid disclosure.

LOG EXPORT OPERATIONS 1992

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/Everett [1]	Skagit/Snohomish	12	202,760	--	202,760
Tacoma	Pierce	8	374,036	--	374,036
Total		20	576,796	--	576,796
Olympic Peninsula					
Grays Harbor	Grays Harbor	10	429,449	1,600	431,049
Olympia	Thurston	5	101,907	300	102,207
Port Angeles	Clallam	6	83,496	865	84,361
Total		21	614,852	2,765	617,617
Lower Columbia					
Longview	Cowlitz	10	646,462	3,330	649,792
Total		10	646,462	3,330	649,792
TOTAL, STATEWIDE		51	1,838,110	6,095	1,844,205

[1] Combined to avoid disclosure.

LOG EXPORT OPERATIONS 1992

Table D-69

Number of Export Operations by Years of Port Use

Years of port use	All Operations
0-2	2
3-5	6
6-10	5
11-20	21
21+	17

TOTAL, STATE	51
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LOG EXPORT OPERATIONS 1992

Table D-70

Log Flows to Ports by County of Origin
(Thousand board feet, Scribner log rule)

Economic area and county of origin	Port and county of export						Total
	Anacortes/ Everett[1]	Grays Harbor [2]	Longview[3]	Olympia[4]	Port Angeles [5]	Tacoma [6]	
Puget Sound							
Island	3,000	--	--	--	--	--	3,000
King	2,757	--	--	3,000	--	109,127	114,884
Kitsap	--	--	--	--	--	864	864
Pierce	3,000	--	--	13,267	--	102,052	118,319
Skagit	43,935	--	--	--	--	988	44,923
Snohomish	77,686	--	--	--	--	22,878	100,564
Whatcom	44,734	--	--	--	--	--	44,734
Total	175,112	--	--	16,267	--	235,909	427,288
Olympic Peninsula							
Clallam	460	1,700	--	--	53,671	--	55,831
Grays Harbor	--	217,626	--	729	--	--	218,355
Jefferson	--	24,235	--	--	28,506	--	52,741
Lewis	3,191	53,219	144,165	7,941	--	60,512	269,028
Mason	--	20,867	--	38,229	--	397	59,493
Pacific	--	104,007	4,200	--	--	--	108,207
Thurston	--	9,395	2,422	39,041	--	51,420	102,278
Total	3,651	431,049	150,787	85,940	82,177	112,329	865,933
Lower Columbia							
Clark	3,192	--	142,014	--	--	--	145,206
Cowlitz	4,786	--	269,390	--	--	--	274,176
Skamania	--	--	22,497	--	--	--	22,497
Wahkiakum	--	--	21,880	--	--	--	21,880
Total	7,978	--	455,781	--	--	--	463,759
Central Washington							
Chelan	153	--	--	--	--	--	153
Kittitas	--	--	--	--	--	25,798	25,798
Total	153	--	--	--	--	25,798	25,951
Inland Empire							
Total	--	--	--	--	--	--	--
TOTAL, STATEWIDE	186,894	431,049	606,568	102,207	82,177	374,036	1,782,931
Outside Washington	15,866	--	43,224	--	2,184	--	61,274
TOTAL RECEIPTS AT PORTS	202,760	431,049	649,792	102,207	84,361	374,036	1,844,205

[1] Skagit and Shohomish counties.

[2] Grays Harbor county.

[3] Cowlitz county

[4] Thurston county.

[5] Clallam county.

[6] Pierce county.

LOG EXPORT OPERATIONS 1992
Table D-71
Log Consumption by Species and County
(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										
Pierce	374,036	279,570	81,588	8,894	821	--	--	452	2,215	496
Skagit/Snohomish [1]	202,760	126,585	57,946	1,259	--	--	--	2,288	3,431	11,251
Total	576,796	406,155	139,534	10,153	821	--	--	2,740	5,646	11,747
Olympic Peninsula										
Clallam	84,361	31,537	44,695	76	5,231	--	--	2,139	76	607
Grays Harbor	431,049	221,636	182,598	13,545	6,435	--	650	3,815	325	2,025
Thurston	102,207	94,541	6,809	600	--	--	--	--	--	257
Total	617,617	347,714	234,102	14,221	11,686	--	650	5,954	401	2,889
Lower Columbia										
Cowlitz	649,792	558,934	74,414	10,685	899	--	--	600	1,980	2,280
Total	649,792	558,934	74,414	10,685	899	--	--	600	1,980	2,280
TOTAL, STATEWIDE	1,844,205	1,312,803	448,050	35,059	13,406	--	650	9,294	8,027	16,916

[1] Combined to avoid disclosure.

LOG EXPORT OPERATIONS 1992

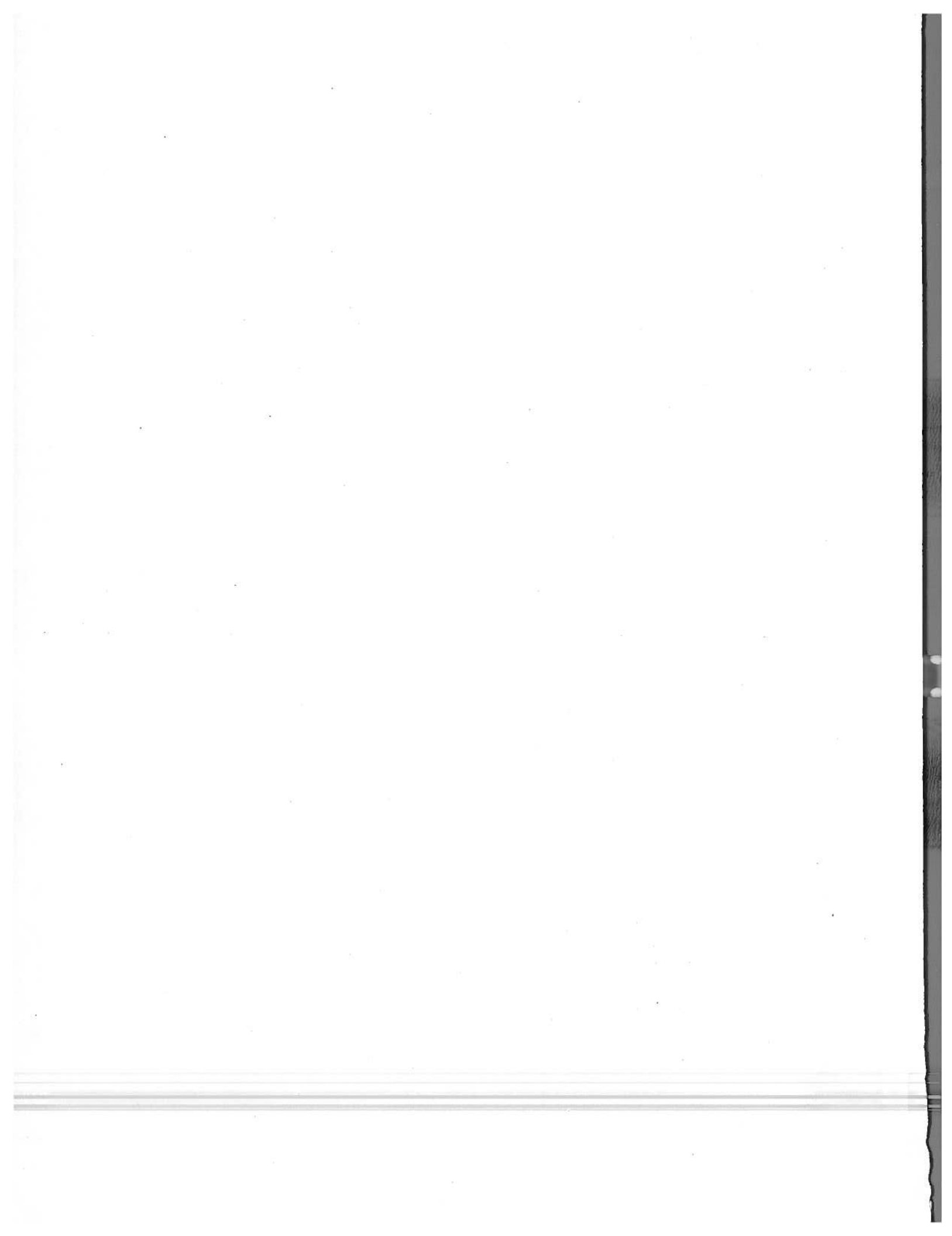
Table D-72

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

Economic area and county of export	All owners	State	National Forest	Bureau of Land Management	Other public	Forest industry			
						Own wood supply	Other wood supply	Farmer and miscellaneous	
Puget Sound									
Pierce	374,036	21,832	--	--	3,738	142,259	106,117	100,090	
Skagit/Snohomish [1]	202,760	27,826	--	--	1,800	2,758	137,637	32,739	
Total	576,796	49,658	--	--	5,538	145,017	243,754	132,829	
Olympic Peninsula									
Clallam	84,361	7,360	--	--	--	21,252	40,402	15,347	
Grays Harbor	431,049	23,600	--	--	8,220	168,559	155,998	74,672	
Thurston	102,207	1,724	--	--	--	5,500	58,388	36,595	
Total	617,617	32,684	--	--	8,220	195,311	254,788	126,614	
Lower Columbia									
Cowlitz	649,792	53,672	--	--	440	180,516	291,618	123,546	
Total	649,792	53,672	--	--	440	180,516	291,618	123,546	
TOTAL, STATEWIDE	1,844,205	136,014	--	--	14,198	520,844	790,160	382,989	

[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: (360) 327-3770

CAR-WIN

LaPush Road
Forks, WA 98331
Phone: (360) 374-5500

McClanahan Lumber
P.O. Box 1483
Forks, WA 98331
Phone: (360) 374-5887

M. J. Lumber Co.
785 W Sequim Bay Road
Sequim, WA 98382
Phone: (360) 683-5825

Olympic Wood Products
P.O. Box 744
Port Angeles, WA 98362
Phone: (360) 452-3566

CLARK COUNTY

Columbia Vista Corporation
P.O. Box 489
Vancouver, WA 98666
Phone: (360) 892-0770

Hambleton Brothers Lumber
P.O. Box 285
Washougal, WA 98671
Phone: (360) 835-2148

COWLITZ COUNTY

Caffall Brothers Forest Products
Longview Fence Division
540 Third Avenue
Longview, WA 98632
Phone: (360) 636-5960

Gram Lumber Company
985 N.W. Second St.
Kalama, WA 98625
Phone: (360) 673-5231

Raymond H. Sartwell
Portable Sawmilling
420 27th
Longview, WA 98632
Phone: (360) 577-9070

Ross Simmons Hardwood Lumber
P.O. Box 366
Longview, WA 98632
Phone: (360) 423-8210

RSG Forest Products
985 N.W. Second
Kalama, WA 98625
Phone: (360) 673-2825

Western Wood Products
893 Smith Road
Toutle, WA 98649
Phone: (360) 274-4047

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

Weyerhaeuser Company
Northwest Hardwoods--
Longview
Tacoma, WA 98401
Phone: (206) 577-6678

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: (360) 533-0448

Mary's River Lumber Co.
Montesano Division
P.O. Box 569
Montesano, WA 98563
Phone: (360) 249-5650

Mayr Brothers Logging Co.
P.O. Box 180
Hoquiam, WA 98550
Phone: (360) 532-7490

Westby Lumber Inc.
P.O. Box 142
Copalis Beach, WA 98535
Phone: (360) 289-3435

Weyerhaeuser Company
Aberdeen Sawmill
Tacoma, WA 98401
Phone: (206) 924-2355

JEFFERSON COUNTY

Allen Logging Company
HC 80 Box 736
Forks, WA 98331
Phone: (360) 374-6000

Gerald West Inc.
5411 Center Road
Chimacum, Wa 98325
Phone: (360) 732-4244

Olympic Camp Sawmill
HC 80 Box 2500
Forks, WA 98331
Phone: (360) 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) 825-8149

KITSAP COUNTY

Pope & Talbot Inc.
P.O. Box 217
Port Gamble, WA 98364
(Closed November, 1995)
(Burned February, 1997)

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: (360) 978-4117

Cascade Hardwoods
P.O. Box 269
Chehalis, WA 98532
Phone: (360) 748-0178

Cowlitz Stud Co.
Morton Mill
P.O. Box P
Morton, WA 98356
Phone: (360) 682-7262

Cowlitz Stud Co.
Randle Mill
P.O. Box 219
Randle, WA 98377
Phone: (360) 682-7262

Packwood Lumber Co.
P.O. Box 229
Packwood, WA 98361
Phone: (360) 494-5175

Tubafor Mill Inc.
P.O. Box U
Morton, WA 98356
Phone: (360) 496-6777

Weyerhaeuser Company
Northwest Hardwood-- Centralia
Tacoma, WA 98401
Phone: (360) 736-2811

WTD Industries Inc.
Morton Forest Products
P.O. Drawer I
Morton, WA 98356
Phone: (360) 496-6666

MASON COUNTY

Little Skookum Mill
780 West Hwy 108
Shelton, WA 98584
Phone: (360) 426-9721

Olympic Wood Products Inc.
P.O. Box 1550
Shelton, WA 98584
Phone: (360) 426-0851

Simpson Timber Company
Sawmill # 3
Third and Franklin
Shelton, WA 98584
Phone: (360) 426-3381

Simpson Timber Company
Sawmill # 5
Third and Franklin
Shelton, WA 98584
Phone: (360) 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

Zosel 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: (360) 942-5525

Weyerhaeuser Company
Raymond Sawmill
Tacoma, WA 98401
Phone: (360) 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: (206) 383-2424

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: (360) 376-4123
(Mill closed 1994)

SKAGIT COUNTY

Barrell Springs Mill
146 Barrell Springs Road
Bellingham, WA 98225
Phone: (360) 724-6302

Goodyear Nelson Hardwood
P.O. Box 71
Sedro Wooley, WA 98284
Phone: (360) 856-0816

Snow Mountain Mills
1488 Valley View Drive
Mount Vernon, WA 98273
Phone: (360) 293-5812

WTD Industries Inc.
Sedro Woolley Lumber Company
P.O. Box 639
Sedro Woolley, WA 98284
Phone: (360) 855-2125

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

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

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

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) 738-6881

Boise Cascade Corporation
Small Log Mill
South 110 Boise Road
Kettle Falls, WA 99141
Phone: (509) 738-6881

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

Dan's Lumber Company
5600 Scotts Valley Road
Deer Park, WA 99006
Phone: (509) 276-6568

Plum Creek Mfg.
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 Division
565 West Fifth
Colville, WA 99114
Phone: (509) 684-5071

THURSTON COUNTY

Cedar Creek Sawmill
P.O. Box 105
Little Rock, WA 98556
Phone: (360) 753-6837

Pfaff Quality Lumber
2138 93rd Ave. S.E.
Olympia, WA 98501
Phone: (360) 352-8524

WTD Industries Inc.
Tumwater Lumber Company
P.O. Box 4158
Tumwater, WA 98501
Phone: (360) 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: (360) 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

Shake & Shingle

CLALLAM COUNTY

A & A Shake Company
P.O. Box 161
Forks, WA 98331
Phone: (360) 374-9179

B & W Shake Company
P.O. Box 368
Forks, WA 98331
Phone: (360) 374-9810

C & R Cedar
Route 1, Box 151
Forks, WA 98331
Phone: (360) 374-5316

C & R Shingle
P.O. Box 242
Beaver, WA 98305
Phone: (360) 374-5703

D & R Cedar
P.O. Box 634
Forks, WA 98331
Phone: (360) 374-9283

Hinchen Brothers Shingle
P.O. Box 2116
Forks, WA 98331
Phone: (360) 374-9821

Hollywood Shake Company
P.O. Box 1984
Forks, WA 98331
Phone: (360) 374-6688

L P II Inc.
P.O. Box 1729
Forks, WA 98331
Phone: (360) 374-6320

Praemium Shingle
P.O. Box 67
Beaver, WA 98305

Sunshine Shake
P.O. Box 1219
Forks, WA 98331
Phone: (360) 327-3566

CLARK COUNTY

Conder Shake Company
22118 Abernathy Road
Yacolt, WA 98675
Phone: (360) 686-3676

COWLITZ COUNTY

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

GRAYS HARBOR COUNTY

Bayview Cedar Products Inc.
P.O. Box 26
Hoquium, WA 98550

B & J Shake
P.O. Box 508
Oakville, WA 98568
Phone: (360) 273-9120

Bob Cat Cedar Inc.
158 Bowes Road
Hoquiam, WA 98550
Phone: (360) 987-2353

Daniels Cedar Products
1506 Laura Street
Aberdeen, WA 98520
Phone: (360) 532-9114

Michael C. Crites
51 Devonshire Road
Montesano, WA 98563

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

L & H Shake
Moclips, WA 98562
Phone: (360) 289-3283

McCormick Ridge
P.O. Box
Capallis Crossing, WA 98536
Phone: (360) 533-6023

Marshall Wells Shake
Box 714
Amanda Park, WA 98526
Phone: (360) 288-2287

L.G. Moore Shake
P.O. Box 48
Montesano, WA 98563
Phone: (360) 249-4319

Pacific Reign Ent. Inc.
Neilton, WA
Phone: (360) 288-2594

Peterson Shake Company, Inc.
P.O. Box L
Amanda Park, WA 98526
Phone: (360) 288-2474

Post Shake Company, Inc.
334 Monte-Elma Road
Montesano, WA 98563
Phone: (360) 249-3464

Sea Breeze Cedar Inc.
P.O. Box 362
Moclips, WA 98562

Theel Shake Inc.
P.O. Box 160
Neilton, WA 98566
Phone: (360) 288-2744

#208 Shake & Shingle Co.
P.O. Box 208
Moclips, WA 98562
Phone: (360) 276-4122

JEFFERSON COUNTY

Hickam Shake Company, Inc.
HC 80 Box 1816
Forks, WA 98331
Phone: (360) 962-3375

KING COUNTY

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

LEWIS COUNTY

Nederlander & Sons
946 State Hiway 508
Chehalis, WA 98532
Phone: (360) 262-3567

Page Shake
Box 161
Mineral, WA 98355
Phone: (360) 492-5971

Phillips Shake
1383 Highway 508
Chehalis, WA 98532
Phone: (360) 978-4392

Reichert Shake Mill
207 Kangas Road
Toledo, WA 98591
Phone: (360) 864-6434

Robertson Shake Mill
365 N.W. Chehalis Avenue
Chehalis, WA 98532
Phone: (360) 748-9411

OKANOGAN COUNTY

Havillah Shake Company
1092 Havillah Road
Tonasket, WA 98855
Phone: (509) 486-1467

PACIFIC COUNTY

Bryant Shake Company
944 Ash
Raymond, WA 98577

SKAGIT COUNTY

A & B Shake Company
P.O. Box 103
Clearlake, WA 98235
Phone: (360) 856-0827

Can't Hardly Shake Cedar
3885 Challenger Road
Concrete, WA 98237
Phone: (360) 826-3382

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

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

Hyaka Cedar Products
3125 Hwy 20
Sedro Woolley, WA 98284
Phone: (360) 826-3570

Iron Mountain Cedar Prod. Inc.
P.O. Box 21
Hamilton, WA 98255
Phone: (360) 826-4181

Jones Shake and Shingle
5783 Hwy 20
Rockport, WA 98283
Phone: (360) 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: (206) 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: (360) 352-7491

WAHAKIUM COUNTY

Anderson Shake & Shingle Co.
P.O. Box 1
Cathlamet, WA 98612
Phone: (360) 795-3211

B & M Wood Products
428 St. HSwy 407
Cathlamet, WA 98612
Phone: (360) 795-3380

WHATCOM COUNTY

A & P Cedar
5783 Mt. Baker Highway
Deming, WA 98244
Phone: (360) 592-5225

Veneer & Plywood

PUGET SOUND AREA

Bay View Plywood Company
P.O. Box 608
Burlington, WA 98233
Phone: (360) 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

G N Plywood Inc.
P.O. Box 997
Bellingham, WA 98227
Phone: (360) 733-3960

OLYMPIC PENINSULA AREA

Allen Logging Company
HC 80 Box 736
Forks, WA 98331
Phone: (360) 374-6000

Elma Plywood Corporation
P.O. Box A1
Elma, WA 98541
Phone: (360) 482-2521

Grays Harbor Veneer
Anderson/Middleton Lumber
P.O. Box 239
Hoquiam, WA 98550
Phone: (360) 532-3540

Hardel Mutual Plywood Co.
P.O. Box 365
Olympia, WA 98507
Phone: (360) 754-6030

Hoquiam Plywood Co. Inc.
P.O. Box 737
Hoquiam, WA 98550
Phone: (360) 533-3060

K-Ply Incorporated
439 Marine Drive
Port Angeles, WA 98362
Phone: (360) 457-4421

Morton Forest Products Inc.
WTD Industries Inc.
P.O. Box I
Morton, WA 98356
Phone: (360) 496-6666

Olympic Plywood
P.O. Box 460
Shelton, WA 98584
Phone: (360) 426-3381

Pacific Veneer
100 North Decatur
Aberdeen, WA 98520
Phone: (360) 538-1060

Solid Wood Incorporated
P.O. Box 1628
Olympia, WA 98507
Phone: (360) 943-4335

West Veneer
P.O. Box 217
Randle, WA 98377
Phone: (360) 497-5121

LOWER COLUMBIA AREA

Fort Vancouver Plywood
P.O. Box 289
Vancouver, WA 98666
Phone: (360) 694-3368

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

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: (360) 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

OLYMPIC PENINSULA AREA

Daishowa America, Co., LTD
P.O. Box 271
Port Angeles, WA 98362
Phone: (360) 457-4474

ITT Rayonier Inc.
P.O. Box 299
Hoquiam, WA 98550
(Closed 1993)

ITT Rayonier Inc.
P.O. Box 191
Port Angeles, WA 98362
Phone: (360) 457-3391

Port Townsend Paper Co.
P.O. Box 3170
Port Townsend, WA 98369
Phone: (360) 385-3170

Weyerhaeuser Company
Cosmopolis Sulfite
Tacoma, WA 98401
Phone: (360) 924-2284

LOWER COLUMBIA AREA

James River Corporation
N.E. Fourth and Adams
Camas, WA 98607
Phone: (360) 834-3021

Longview Fiber Company
P.O. Box 3000
Longview, WA 98632
Phone: (360) 425-1550

NORPAC
P.O. Box 2069
Longview, WA 98632
Phone: (360) 636-6413

Weyerhaeuser Company
Longview
- Containerboard
- Bleached Board
& Fine Paper
Tacoma, WA 98401
Phone: (360) 425-2150

INLAND EMPIRE AREA

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

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

Ponderay Newsprint Company
422767 Hwy 20
Usk, WA 99180
Phone: (509) 445-1511

Post, Pole & Piling

PUGET SOUND AREA

J. H. Baxter Company
P.O. Box 305
Arlington, WA 98223
Phone: (360) 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: (360) 734-1480

OLYMPIC PENINSULA AREA

Pacific Lumber and Shipping
Rochester Poles
18146 Dallas Street S.W.
Rochester, WA 98579
Phone: (360) 273-5541

Simpson Timber Company
P.O. Box 460
Shelton, WA 98584
Phone: (360) 427-4955

Weyerhaeuser Company
Curtis Post & Pole Facility
P.O. Box 40
Curtis, WA 98538
Phone: (360) 245-3245

LOWER COLUMBIA AREA

Pacific Wood Treating Corp.
P.O. Box 518
Ridgefield, WA 98642
(Out of business, 1994)

INLAND EMPIRE AREA

Chewelah Log and Post
North 408 Ehorn Lane
Chewelah, WA 99102
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

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: (360) 636-8436

Itochu International
900 Fourth Avenue, Suite 3600
Seattle, WA 98164
Phone: (206) 623-3764

ITT Rayonier
P.O. Box 34162
Seattle, WA 98124
Phone: (206) 248-4102

Kawasho Int'l (USA) Inc.
411 Denny Bldg.
2200 6th Avenue
Seattle, WA 98121-1894
Phone: (206) 448-0488

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

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

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

Plum Creek Timber Company
First Interstate Center
999 Third Avenue, Suite 2300
Seattle, WA 98104-4096
Phone: (206) 467-3605

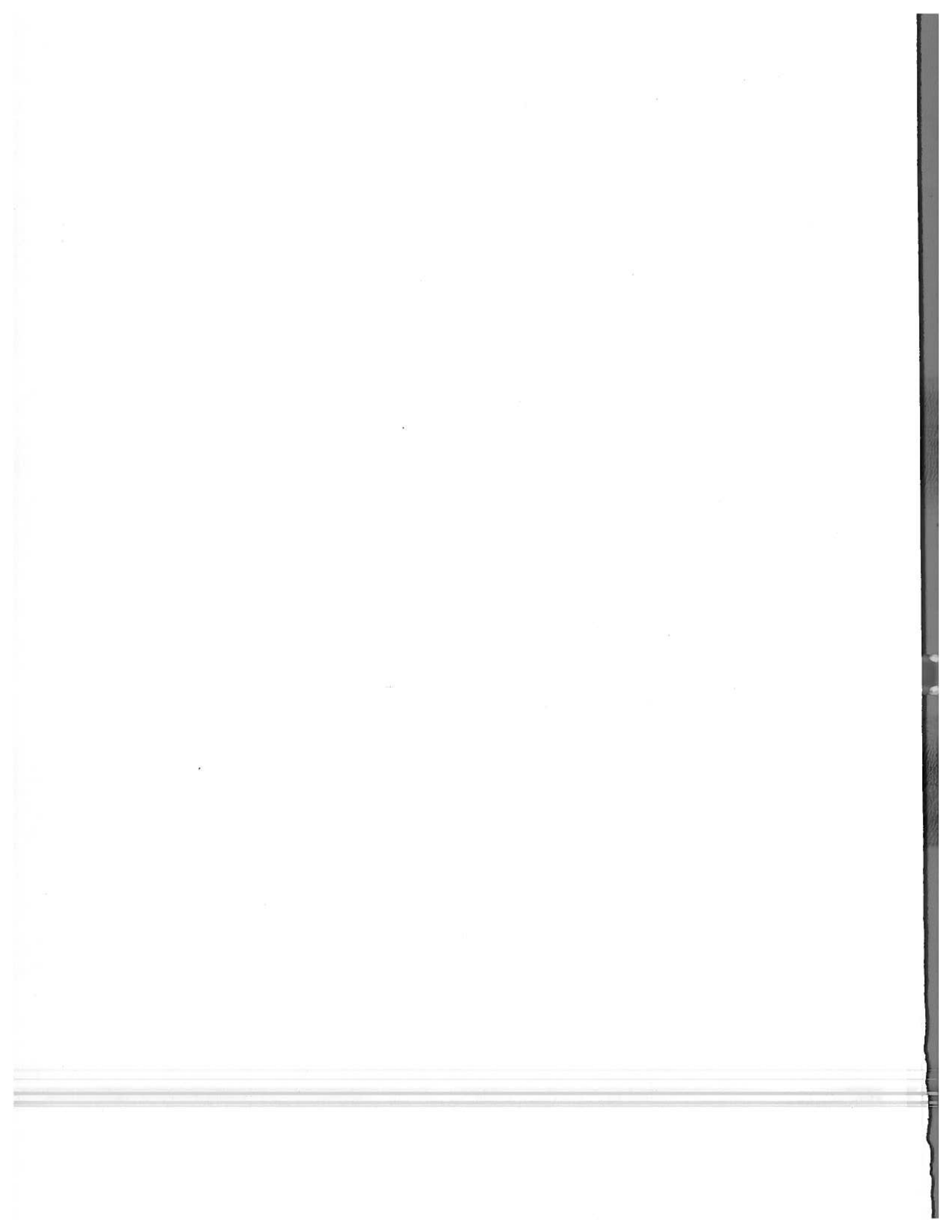
Sanyo-Kokusaku Pulp Co., Ltd.
c/o Norman Barnes & Co., Ltd.
801 Second Ave.
Seattle, WA 98104
Phone: (206) 624-4694

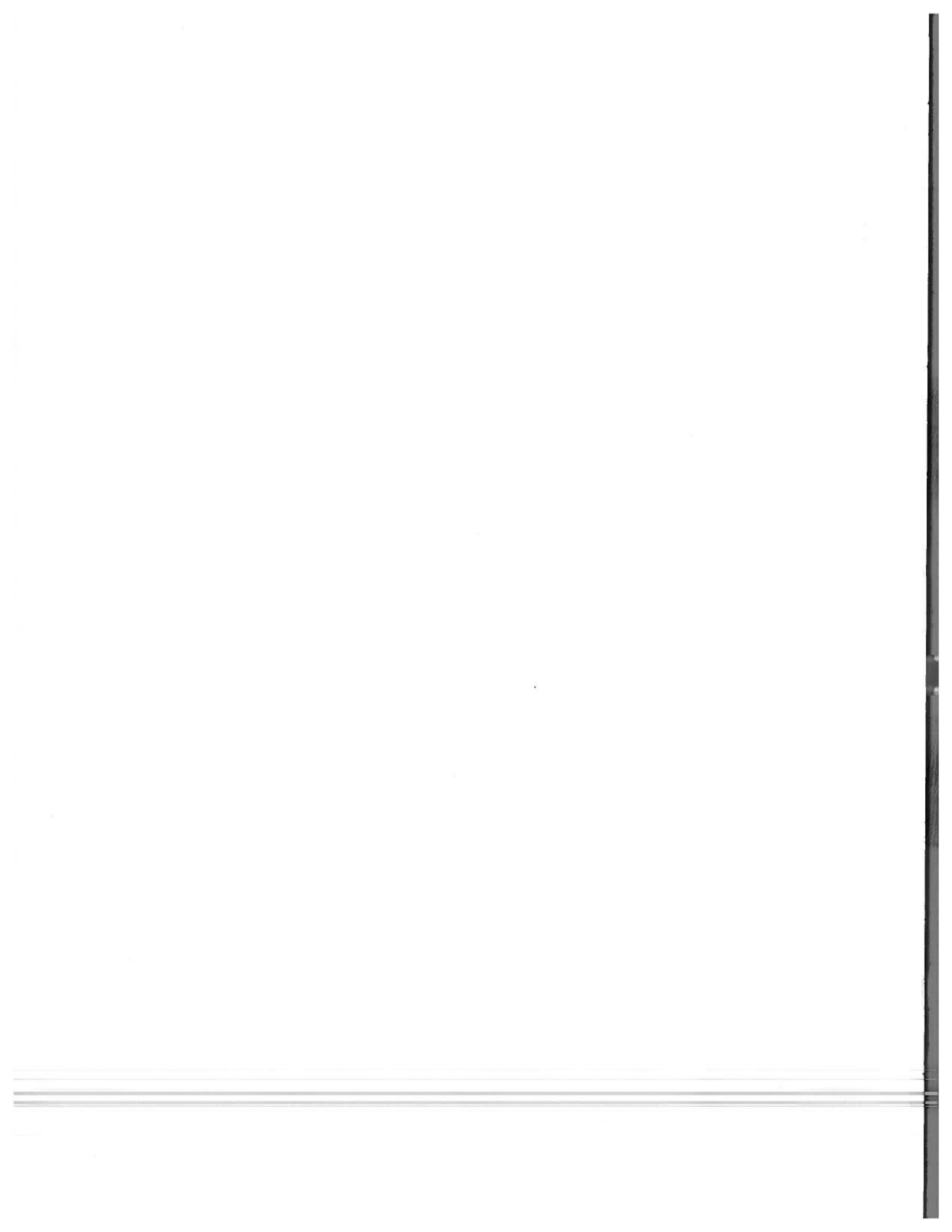
Sumitomo Forestry Co., Ltd.
Plaza Suite 2725
1001 Fourth Avenue
Seattle, WA 98154
Phone: (206) 623-8840

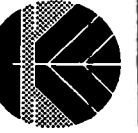
TAT (USA) Corporation
P.O. Box 808
718 Hewitt Street
Everett, WA 98206-8080
Phone: (206) 258-6711

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 M. Belcher - Commissioner of Public Lands

**Resource Planning and Asset
Management Division**
PO Box 47014
Olympia, Washington 98504-7014



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