



# Washington Mill Surveys 2002

Series Report #16



May 2005



WASHINGTON STATE DEPARTMENT OF  
**Natural Resources**  
Doug Sutherland - Commissioner of Public Lands

# Acknowledgements

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

This report was prepared by the Natural Resource Economists Group of the Office of Budget and Economics of the Department of Natural Resources. Dr Bruce Glass, Dave Larson, the Natural Resource staff helped make this report possible. Appreciation is also extended to the USDA Forest Service's Pacific Northwest Research Station for their assistance in supporting the computer program that was used to compile the data for this report.

This report was prepared by:

**DNR Office of Budget and Economics  
Natural Resource Economist Group**

Bob Van Schoorl	Budget Director
Phil Aust	Lead Economist
Dave Larsen	Economist
Dorian Smith	Layout and Editing

**Additional Assistance**

Blanche Sobottke	DNR Communications
------------------	--------------------

This report was significantly aided by the database program written by:

Bruce Hiserote  
Pacific Northwest Research Station  
USDA Forest Service  
Portland, OR

**Address requests regarding this report to:**

Dorian Smith  
Office of Budget and Economics  
Department of Natural Resources  
PO Box 47041  
Olympia, WA 98504-7041

**Phone:** 360.902.1026 **FAX:** 360.902.1780

**E-mail:** [dorian.smith@wadnr.gov](mailto:dorian.smith@wadnr.gov) **Web Site:**

[http://www.dnr.wa.gov/BusinessPermits/Topics/EconomicReports/Pages/obe\\_washington\\_state\\_millsurvey.aspx](http://www.dnr.wa.gov/BusinessPermits/Topics/EconomicReports/Pages/obe_washington_state_millsurvey.aspx)

People who need this information in an alternate format may call:

360.705.0582 or TTY 360.902.1125

# Washington Mill Survey 2002 Series Report #16



May 2005

Prepared by:  
Dorian Smith  
Public Information Officer

---

Bruce Hiserote  
Pacific Northwest Research Station, USDA Forest Service



WASHINGTON STATE DEPARTMENT OF  
**Natural Resources**  
Doug Sutherland - Commissioner of Public Lands

# Table of Contents

Acknowledgements .....	Inside front cover
Introduction /Abbreviations / Conversions .....	iv
Map of ProductionRegions .....	v
Report Year and Table Number CrossIndex .....	vii

## Tables:

### Washington Statewide Summary

Page 2	Table 1	Number of Mills by Industry
Page 3	Table 2	Primary wood use and mills' location
Page 3	Table 3	Locations of mills and sources of logs
Page 4	Table 4	Location of mills using logs from national forests
Page 5	Table 5	Mills' dependency on sources for logs
Page 6	Table 6	Logs by ownership source
Page 7	Table 7	Wood species
Page 8	Table 8	Production and disposition of wood and bark residues
Page 8	Table 9	Log use by log diameter

### Sawmills

Page 10	Table 10	Number of sawmills by size
Page 10	Table 11	Eight-hour single shift capacity
Page 10	Table 12	Sawmills with selected equipment
Page 11	Table 13	Number of sawmills by headrig type and size
Page 12	Table 14	Wood type
Page 12	Table 15	Average number of operating days
Page 12	Table 16	Log use by diameter
Page 13	Table 17	Origin of logs
Page 14	Table 18	Sources of logs for sawmills
Page 15	Table 19	Logs by species for sawmills
Page 16	Table 20	Degree of lumber manufacture
Page 16	Table 21	Lumber production by headrig
Page 17	Table 22	Production and use of all types of wood residues
Page 18	Table 23	Production and use of bark residue

### Veneer and Plywood Mills

Page 20	Table 24	Number of veneer and plywood mills
Page 20	Table 25	Veneer and plywood mills 8-hour shift capacity
Page 20	Table 26	Veneer and plywood mills by lathe log diameter limit
Page 21	Table 27	Number of veneer and plywood mills by core size
Page 21	Table 28	Number of veneer and plywood mills by equipment
Page 21	Table 29	Average operating days per year by veneer mill type
Page 22	Table 30	Volume by log diameter
Page 22	Table 31	Production and use of wood residues from veneer and plywood mills
Page 22	Table 32	Veneer and plywood production

### **Pulp Mills**

Page 24	Table 33	Pulp mills by processing type
Page 24	Table 34	Pulp mill capacity
Page 25	Table 35	Pulp mills' average operating days
Page 25	Table 36	Pulp mill production by product and operation
Page 25	Table 37	Wood used by pulp mills (except roundwood)
Page 26	Table 38	Chips and residues
Page 27	Table 39	Residue and off-site chip use by state or province

### **Shake and Shingle Mills**

Page 29	Table 40	Shake and shingle mills' capacity and operating days
Page 29	Table 41	Shake and shingle mills with selected equipment
Page 29	Table 42	Wood used
Page 29	Table 43	Ownership origin of logs
Page 29	Table 44	Shake mill production
Page 30	Table 45	Shake mill wood and bark residue production and use

### **Post, Pole and Piling Mills**

Page 32	Table 46	Post, pole and piling mills operation characteristics
Page 32	Table 47	Post, pole and piling mills with selected equipment
Page 32	Table 48	Log use by diameter
Page 32	Table 49	Mill shipments

### **Log Export Operations**

Page 34	Table 50	Log export operations and volume
Page 34	Table 51	Logs exported by diameter
Page 35	Table 52	Log exports by species
Page 35	Table 53	Origin of export logs

### **Chipping Mills**

Page 37	Table 54	Capacity and operating days of chipping mills
Page 37	Table 55	Chip logs by diameter
Page 38	Table 56	Ownership origin of logs
Page 38	Table 57	Chip logs by species and region

# Introduction

Based on questionnaires conducted by the Department of Natural Resources, this report includes statistics on wood use and the characteristics of primary wood processing mills, during the calendar year 2002. It is the 16th biennial survey that documents mill characteristics, wood volume and the input of raw materials into the state's seven primary wood-using industries:

- Sawmills
- Pulp mills
- Shake & Shingle
- Whole log chipping
- Veneer & Plywood mills
- Post, Pole & Piling operations
- Log export operations

Since this survey covers the entire industry, sampling errors are not a factor. However, when some data was not provided by mill owners or managers, estimates were calculated from data in previous years. In total, this report provides the most reliable estimates of the state's wood products industries in Washington.

Information about individual mills or companies has been kept confidential. In recent decades as the industry downsized in some sectors, it has been necessary to combine table data to avoid revealing mill identity or ownership. In this edition nearly all tables list data from five geographic/economic regions instead of the state's 39 counties. Though the data is less detailed, we believe it is easier to grasp.

## Abbreviations and Conversions

### Lumber volume

**board foot:** a piece of wood 12 inches x 12 inches x 1 inch

**mbf:** one thousand board feet (this report uses Scribner log rule method).

**mmbf:** one million board feet

### Plywood / Veneer

**msf:** thousand square feet 3/8 inch basis

### Pulp

**ton:** 2,000 pounds

**bone dry tons (BDT):** 1.2 tons or 2,400 pounds

**air dry metric tons (ADMT):** 2,200 pounds; with 10% water content

### Shake and Shingle:

**square:** 10 square feet (5 squares makes a cord)

**bundle:** 5 bundles makes a square

**cord:** 1 mbf; 128 cubic feet (stacked); 80 cubic feet of solid wood







WASHINGTON MILL SURVEY 2002

**Washington Statewide Summary: Tables 1-9**

Table 1: Number of mills by industry

Production region and county	All Industries	INDUSTRY						
		Lumber	Veneer and Plywood	Pulp and Board	Shake and Shingle	Log Export	Post, Pole and piling	Roundwood Chipping
<b>Puget Sound</b>								
King	1	1	—	—	—	—	—	—
Pierce	16	6	1	1	—	5	1	2
Skagit	9	3	—	—	2	3	—	1
Snohomish	18	9	—	1	2	5	1	—
Whatcom	3	2	1	—	—	—	—	—
<b>Total</b>	<b>47</b>	<b>21</b>	<b>2</b>	<b>2</b>	<b>4</b>	<b>13</b>	<b>2</b>	<b>3</b>
<b>Olympic Peninsula</b>								
Clallam	13	4	1	1	4	2	—	1
Grays Harbor	25	5	3	1	12	3	—	1
Jefferson	1	—	—	1	—	—	—	—
Lewis	15	10	1	—	2	—	1	1
Mason	8	5	1	—	—	—	1	1
Pacific	2	2	—	—	—	—	—	—
Thurston	12	2	—	—	—	9	1	—
<b>Total</b>	<b>76</b>	<b>28</b>	<b>6</b>	<b>3</b>	<b>18</b>	<b>14</b>	<b>3</b>	<b>4</b>
<b>Lower Columbia</b>								
Clark	2	2	—	—	—	—	—	—
Cowlitz	25	5	—	4	—	12	—	4
Klickitat	2	1	1	—	—	—	—	—
Skamania	1	1	—	—	—	—	—	—
Wahkiakum	1	—	—	—	1	—	—	—
<b>Total</b>	<b>31</b>	<b>9</b>	<b>1</b>	<b>4</b>	<b>1</b>	<b>12</b>	<b>—</b>	<b>4</b>
<b>Central Washington</b>								
Chelan	2	2	—	—	—	—	—	—
Okanogan	1	1	—	—	—	—	—	—
Yakima	5	4	1	—	—	—	—	—
<b>Total</b>	<b>8</b>	<b>7</b>	<b>1</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>
<b>Inland Empire</b>								
Asotin	3	1	—	—	—	—	—	2
Pend Orielle	2	1	—	1	—	—	—	—
Spokane	1	—	—	1	—	—	—	—
Stevens	10	8	1	—	—	—	1	—
<b>Total</b>	<b>16</b>	<b>10</b>	<b>1</b>	<b>2</b>	<b>—</b>	<b>—</b>	<b>1</b>	<b>2</b>
<b>State Total</b>	<b>178</b>	<b>75</b>	<b>11</b>	<b>11</b>	<b>23</b>	<b>39</b>	<b>6</b>	<b>13</b>

Table 2: Primary wood use by mills' location

	All roundwood	Sound logs	Utility logs	Other	Residue
<b>Production region</b>	----- thousand board feet, Scribner rule ----				bone dry tons
Puget Sound	784,157	768,692	15,465	3,740	1,160,260
Olympic Peninsula	1,546,926	1,269,681	277,245	6,294	843,898
Lower Columbia	954,900	936,788	18,112	300	2,624,330
Central Washington	280,355	259,801	20,554	0	0
Inland Empire	469,576	464,560	5,016	250	385,651
<b>State Total</b>	<b>4,035,914</b>	<b>3,699,522</b>	<b>336,392</b>	<b>10,584</b>	<b>5,014,139</b>

Table 3: Locations of mills and sources of logs (thousand board feet, Scribner rule)

Production region	All	Origin					
		Washington	Oregon	Idaho	Montana	British Columbia	Other
Puget Sound	784,157	686,677	290	2,320	—	90,847	4,023
Olympic Peninsula	1,546,926	1,442,009	32,792	1,800	—	60,014	10,311
Lower Columbia	954,900	570,851	371,439	2,250	—	10,360	—
Central Washington	280,355	279,844	—	—	—	511	—
Inland Empire	469,576	339,676	15,068	92,616	11,555	10,660	—
<b>State Total</b>	<b>4,035,914</b>	<b>3,319,058</b>	<b>419,589</b>	<b>98,986</b>	<b>11,555</b>	<b>172,392</b>	<b>14,334</b>

Table 4: Locations of mills using logs from national forest (thousand board feet, Scribner rule)

Production region	All									
	National Forests	Olympic	Gifford Pinchot	Mount Baker/ Snoqualmie	Wenatchee	Okanogan	Colville	Umatilla	Other	
Puget Sound	782	450	123	209	0	0	0	0	0	0
Olympic Peninsula	9,371	7,480	1,260	631	0	0	0	0	0	0
Lower Columbia	4,091	0	431	0	1,936	0	0	0	0	1,724
Central Washington	4,341	0	0	0	3,061	1,281	0	0	0	0
Inland Empire	25,727	0	0	0	0	1,386	15,863	1,788	6,689	
<b>State Total</b>	<b>44,313</b>	<b>7,930</b>	<b>1,814</b>	<b>840</b>	<b>4,997</b>	<b>2,667</b>	<b>15,863</b>	<b>1,788</b>	<b>8,413</b>	
Industry										
Lumber	27,776	789	1,691	616	3,061	1,223	14,967	834	4,595	
Veneer & plywood	5,272	3,053	123	0	0	1,444	652	0	0	
Pulp & board	2,810	2,810	0	0	0	0	0	0	0	
Post, pole & piling	364	47	0	74	0	0	244	0	0	
Roundwood chipping	8,091	1,231	0	151	1,936	0	0	955	3,818	
<b>State Total</b>	<b>44,313</b>	<b>7,930</b>	<b>1,814</b>	<b>840</b>	<b>4,997</b>	<b>2,667</b>	<b>15,863</b>	<b>1,788</b>	<b>8,413</b>	

STATEWIDE SUMMARY

WASHINGTON MILL SURVEY 2002

**Table 5: Mills' dependency on sources for logs**(number of mills)

Production area	National Forest				State-owned				Bureau of Land Mgmt.			
	0%	1-33%	34-66%	67-100%	0%	1-33%	34-66%	67-100%	0%	1-33%	34-66%	67-100%
Puget Sound	43	4	0	0	28	13	5	1	47	0	0	0
Olympic Peninsula	67	9	0	0	45	23	6	2	74	2	0	0
Lower Columbia	29	2	0	0	22	9	0	0	31	0	0	0
Central Washington	5	3	0	0	6	2	0	0	8	0	0	0
Inland Empire	6	9	0	1	8	8	0	0	15	1	0	0
<b>State Total</b>	151	27	0	1	110	55	11	3	176	3	0	0

Table continued below

Economic area	Other Public				Forest Industry 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
Puget Sound	39	8	—	—	39	5	—	3	19	7	9	12
Olympic Peninsula	66	10	—	—	61	3	6	6	29	12	14	21
Lower Columbia	28	3	—	—	20	2	5	4	8	6	6	11
Central Washington	8	—	—	—	4	2	1	1	6	2	—	—
Inland Empire	14	2	—	—	10	5	1	—	7	6	1	2
<b>State Total</b>	156	23	—	—	135	17	13	14	70	33	30	46

Production region	Native American				Farmer, miscellaneous private			
	0%	1-33%	34-66%	67-100%	0%	1-33%	34-66%	67-100%
Puget Sound	40	7	—	—	14	20	1	12
Olympic Peninsula	57	18	1	—	34	31	6	5
Lower Columbia	28	2	—	1	10	16	4	1
Central Washington	1	2	2	3	3	4	1	—
Inland Empire	10	5	—	1	3	6	4	3
<b>State Total</b>	137	34	3	5	65	77	16	21

Table 6: **Logs by ownership source**(thousand board feet, Scribner rule)

Production region	All		National Forest	Bureau of Land Management	Other Public
	Owners	State			
Puget Sound	784,157	158,775	782	—	6,996
Olympic Peninsula	1,546,926	198,032	9,371	2,687	15,060
Lower Columbia	954,900	40,174	4,091	—	1,794
Central Washington	280,355	10,815	4,341	—	—
Inland Empire	469,576	38,012	23,938	1,629	6,700
<b>State Total</b>	<b>4,035,914</b>	<b>445,808</b>	<b>42,525</b>	<b>4,316</b>	<b>30,551</b>

Table continued below

---

Production region	Forest Industry		Native American	Farmer, miscellaneous private
	Own Wood Supply	Other Wood Supply		
Puget Sound	108,304	288,688	3,748	216,864
Olympic Peninsula	474,623	661,194	29,199	156,761
Lower Columbia	380,730	411,550	2,331	114,229
Central Washington	79,147	35,558	142,950	7,544
Inland Empire	75,140	92,606	29,375	202,176
<b>State Total</b>	<b>1,117,943</b>	<b>1,489,596</b>	<b>207,603</b>	<b>697,573</b>

**Table 7: Wood species** (thousand board feet, Scribner rule)

Production region	All species	Douglas-fir	Hemlock	True firs	Ponderosa	
					Spruce	pine
Puget Sound	784,157	429,624	213,694	5,266	3,525	194
Olympic Peninsula	1,546,926	612,663	707,380	5,943	22,624	—
Lower Columbia	954,900	781,733	57,532	5,816	—	1,708
Central Washington	280,355	105,169	18,045	37,980	—	109,034
Inland Empire	469,576	157,154	19,459	78,978	5,715	124,389
<b>State Total</b>	<b>4,035,914</b>	<b>2,086,342</b>	<b>1,016,109</b>	<b>133,983</b>	<b>31,864</b>	<b>235,325</b>

Table continued below

---

Production region	Lodgepole pine	Western redcedar	Other softwoods	Other	
				Red alder	hardwoods
Puget Sound	—	53,077	802	66,569	11,406
Olympic Peninsula	3,292	63,963	—	106,063	24,999
Lower Columbia	1,139	57,550	—	44,836	4,586
Central Washington	9,768	—	360	—	—
Inland Empire	43,927	22,381	17,574	—	—
<b>State Total</b>	<b>58,126</b>	<b>196,971</b>	<b>18,736</b>	<b>217,468</b>	<b>40,991</b>

**Table 8: Production and distribution of wood and bark residues** (tons, dry weight)

Production region	Wood Residue							Unused
	All residues	All Wood	Used				Total	
			Pulp	Board	Fuel	Other		
Puget Sound	1,179,414	879,415	878,321	480,530	77,002	114,078	206,711	1,094
Olympic Peninsula	2,206,764	1,658,699	1,642,760	784,214	62,451	545,117	250,978	15,939
Lower Columbia	905,520	703,624	703,624	504,835	61,344	122,521	14,924	0
Central Washington	400,855	316,003	316,003	186,550	77,864	24,345	27,244	0
Inland Empire	585,798	468,900	468,900	304,132	80,045	66,935	17,788	0
<b>State Total</b>	<b>5,278,351</b>	<b>4,026,641</b>	<b>4,009,608</b>	<b>2,260,261</b>	<b>358,706</b>	<b>872,996</b>	<b>517,645</b>	<b>17,033</b>

Table continued below

Production region	Bark Residue						Unused
	All Bark	Total	Used			Total	
			Pulp	Board	Fuel		
Puget Sound	299,999	299,873	0	0	52,887	246,986	126
Olympic Peninsula	548,065	543,778	56,421	6,800	342,524	138,033	4,287
Lower Columbia	201,896	201,896	2	0	136,104	65,790	0
Central Washington	84,852	84,852	0	0	75,386	9,466	0
Inland Empire	116,898	116,898	32	0	113,465	3,401	0
<b>State Total</b>	<b>1,251,710</b>	<b>1,247,297</b>	<b>56,455</b>	<b>6,800</b>	<b>720,366</b>	<b>463,676</b>	<b>4,413</b>

**Table 9: Log use by diameter** (thousand board feet, Scribner rule)

Production region	Total	Log diameter in inches			
		less than 5	5 to 10	10 to 20	21 +
Puget Sound	784,157	13,280	340,293	363,198	67,386
Olympic Peninsula	1,546,926	212,777	722,297	524,552	87,299
Lower Columbia	954,900	24,689	295,484	535,747	77,080
Central Washington	280,355	1,167	130,320	122,842	26,026
Inland Empire	469,576	29,937	262,886	145,747	31,006
<b>State Total</b>	<b>4,035,914</b>	<b>281,851</b>	<b>1,751,280</b>	<b>1,692,086</b>	<b>288,797</b>



WASHINGTON MILL SURVEY 2002

**Sawmills:** Tables 10-23

Table 10: Number of sawmills by size

Production region	All Classes	Mill size class			
		D	C	B	A
Puget Sound	21	5	2	4	10
Olympic Peninsula	28	5	4	3	16
Lower Columbia	9	0	0	1	8
Central Washington	7	1	0	0	6
Inland Empire	10	4	2	0	4
<b>State Total</b>	<b>75</b>	<b>15</b>	<b>8</b>	<b>8</b>	<b>44</b>

Mill size classes are determined by the capacity to process lumber(measured in thousand board feet) during an 8-hour shift.

**Class A:** More than 120,000 mbf

**Class C:** 40,000-80,000 mbf

**Class B:** 80,000-120,000 mbf

**Class D:** less than 40,000 mbf

Table 11: Eight-hour single shift capacity (thousand board feet, Scribner rule)

Production region	Total Capacity	Mill-size			
		D	C	B	A
Puget Sound	2,952	74	100	392	2,386
Olympic Peninsula	4,685	73	220	310	4,082
Lower Columbia	2,585	—	—	80	2,505
Central Washington	1,237	30	—	—	1,207
Inland Empire	1,004	39	135	—	830
<b>State Total</b>	<b>12,463</b>	<b>216</b>	<b>455</b>	<b>782</b>	<b>11,010</b>

Table 12: Number of sawmills with selected equipment

Production region	Barker	Chipper	Planner	Burner	Kiln
Puget Sound	18	18	15	0	13
Olympic Peninsula	23	24	17	2	15
Lower Columbia	8	6	6	0	5
Central Washington	7	6	7	1	7
Inland Empire	7	8	7	3	6
<b>State Total</b>	<b>63</b>	<b>62</b>	<b>52</b>	<b>6</b>	<b>46</b>

Table 13: Number of sawmills by headrig type and size

Production region and mill-size class	Circular Saw				Bandsaw			Gang Saw	Chipping Saw	Scragg
	2ft	4ft	6ft	8ft	2ft	4ft	6ft	2ft	2ft	2ft
<b>Puget Sound</b>										
D	0	3	0	0	0	3	0	0	0	0
C	0	0	0	0	1	1	0	1	0	0
B	0	0	0	0	0	3	1	1	0	0
A	0	0	0	0	1	4	4	3	2	0
Total	0	3	0	0	2	11	5	5	2	0
<b>Olympic Peninsula</b>										
D	0	1	0	1	1	2	0	0	0	0
C	0	0	1	0	1	1	1	1	1	1
B	0	0	0	0	0	2	0	1	1	1
A	0	1	0	0	1	8	2	4	4	2
Total	0	2	1	1	3	13	3	6	6	4
<b>Lower Columbia</b>										
B	0	0	0	0	0	0	1	0	0	0
A	0	0	0	0	2	3	3	0	1	1
Total	0	0	0	0	2	3	4	0	1	1
<b>Central Washington</b>										
D	0	0	0	0	0	0	0	0	0	1
A	0	0	1	0	0	4	1	1	2	0
Total	0	0	1	0	0	4	1	1	2	1
<b>Inland Empire</b>										
D	1	2	0	0	0	1	0	0	1	1
C	0	0	0	0	0	2	0	0	0	0
A	0	0	0	0	0	2	0	0	3	0
Total	1	2	0	0	0	5	0	0	4	1
<b>State Total</b>										
D	1	6	0	1	1	6	0	0	1	2
C	0	0	1	0	2	4	1	2	1	1
B	0	0	0	0	0	5	2	2	1	1
A	0	1	1	0	4	21	10	8	12	3
Total	1	7	2	1	7	36	13	12	15	7

Mill size classes are determined by the capacity to process lumber(measured in thousand board feet) during an 8-hour shift.

**Class A:** More than 120,000 mbf

**Class C:** 40,000-80,000 mbf

**Class B:** 80,000-120,000 mbf

**Class D:** less than 40,000 mbf

Table 14: **Wood type** (thousand board feet, Scribner rule)

Production region	Roundwood			Other	
	All roundwood	Sound logs	Utility logs	Peeler cores	Other
	— — Scribner Log Rule — — —			— — Lumber Tally — —	
Puget Sound	584,344	569,778	14,838	0	200
Olympic Peninsula	993,712	916,573	77,139	10,000	0
Lower Columbia	370,636	369,126	1,510	70	0
Central Washington	216,326	195,772	20,554	0	0
Inland Empire	314,617	309,601	5,016	0	250
<b>State Total</b>	<b>2,479,907</b>	<b>2,360,850</b>	<b>119,057</b>	<b>10,070</b>	<b>450</b>

Table 15: **Average number of operating days**

Production region	Average operating days per year
Puget Sound	221
Olympic Peninsula	226
Lower Columbia	244
Central Washington	191
Inland Empire	197

Table 16: **Log use by diameter**(thousand board feet, Scribner rule)

Production region	Total	Log diameter in inches			
		Less than 5	5 - 10	10 - 20	21 +
Puget Sound	584,616	7,898	289,351	237,275	50,092
Olympic Peninsula	993,712	63,342	568,102	323,695	38,574
Lower Columbia	370,636	1,350	161,303	177,724	30,259
Central Washington	216,326	1,167	105,989	86,986	22,184
Inland Empire	314,617	17,950	186,341	94,134	16,192
<b>State Total</b>	<b>2,479,907</b>	<b>91,707</b>	<b>1,311,086</b>	<b>919,814</b>	<b>157,300</b>

Table 17: **Origin of logs** (thousand board feet, Scribner rule)

Production region	All	State	National Forest	Bureau of	Other
	Owners			Land Management	
Puget Sound	584,616	151,625	450	0	6,183
Olympic Peninsula	993,712	140,682	2,215	2,687	11,795
Lower Columbia	370,636	38,383	2,155	0	1,656
Central Washington	216,326	4,413	3,061	0	0
Inland Empire	314,617	24,176	19,061	0	6,700
<b>State Total</b>	<b>2,479,907</b>	<b>359,278</b>	<b>26,942</b>	<b>2,687</b>	<b>26,334</b>

Table continued below

---

Production region	Forest Industry		Native American	Farmer and
	Own Wood Supply	Other Wood Supply		miscellaneous private
Puget Sound	12,869	231,061	978	178,863
Olympic Peninsula	276,526	439,964	20,406	99,437
Lower Columbia	127,706	144,680	1,627	54,429
Central Washington	61,859	18,911	123,101	4,982
Inland Empire	46,625	29,793	20,909	167,352
<b>State Total</b>	<b>525,586</b>	<b>864,408</b>	<b>169,609</b>	<b>505,063</b>

Table 18: Sources of logs for sawmills (number of mills grouped by percentage of dependency)

Production region	National Forest				State-owned				Bureau of Land Mgmt.			
	0	1-33%	34-66%	67-100%	0	1-33%	34-66%	67-100%	0	1-33%	34-66%	67-100%
Puget Sound	20	1	0	0	7	10	2	1	21	0	0	0
Olympic Peninsula	24	4	0	0	7	15	5	1	26	2	0	0
Lower Columbia	8	1	0	0	3	6	0	0	9	0	0	0
Central Washington	5	2	0	0	6	1	0	0	7	0	0	0
Inland Empire	4	6	0	0	5	5	0	0	10	0	0	0
<b>State Total</b>	<b>61</b>	<b>14</b>	<b>0</b>	<b>0</b>	<b>28</b>	<b>37</b>	<b>8</b>	<b>2</b>	<b>73</b>	<b>2</b>	<b>0</b>	<b>0</b>

Table continued below

Production region	Other Public				Forest Industry							
	0%	1-33%	34-66%	67-100%	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%
Puget Sound	15	6	0	0	18	2	0	1	8	4	7	2
Olympic Peninsula	21	7	0	0	20	2	3	3	6	4	12	6
Lower Columbia	7	2	0	0	4	1	3	1	1	3	3	2
Central Washington	7	0	0	0	4	1	1	1	6	1	0	0
Inland Empire	8	2	0	0	5	5	0	0	4	5	0	1
<b>State Total</b>	<b>58</b>	<b>17</b>	<b>0</b>	<b>0</b>	<b>51</b>	<b>11</b>	<b>7</b>	<b>6</b>	<b>25</b>	<b>17</b>	<b>22</b>	<b>11</b>

Production region	Native American				Farmer and miscellaneous private			
	0%	1-33%	34-66%	67-100%	0%	1-33%	34-66%	67-100%
Puget Sound	16	5	0	0	2	10	1	8
Olympic Peninsula	19	9	0	0	7	16	3	2
Lower Columbia	8	1	0	0	1	6	2	0
Central Washington	1	1	2	3	3	3	1	0
Inland Empire	6	3	0	1	1	2	4	3
<b>State Total</b>	<b>50</b>	<b>19</b>	<b>2</b>	<b>4</b>	<b>14</b>	<b>37</b>	<b>11</b>	<b>13</b>

**Table 19: Logs by species for sawmills** (thousand board feet, Scribner rule)

<b>Production region</b>	<b>All species</b>	<b>Douglas-fir</b>	<b>Hemlock</b>	<b>True firs</b>	<b>Spruce</b>	<b>Ponderosa pine</b>
Puget Sound	584,616	263,129	194,702	1,857	3,369	194
Olympic Peninsula	993,712	296,731	510,441	3,850	19,132	0
Lower Columbia	370,636	245,595	32,433	0	0	0
Central Washington	216,326	41,140	18,045	37,980	0	109,034
Inland Empire	314,617	75,606	19,300	17,568	5,683	117,071
<b>State Total</b>	<b>2,479,907</b>	<b>922,199</b>	<b>774,922</b>	<b>61,255</b>	<b>28,184</b>	<b>226,298</b>

Table continued below

---

<b>Production region</b>	<b>Lodgepole pine</b>	<b>Western redcedar</b>	<b>Other softwoods</b>	<b>Red alder</b>	<b>Other hardwoods</b>
Puget Sound	0	48,432	100	63,697	9,136
Olympic Peninsula	1,720	57,476	0	94,457	9,904
Lower Columbia	0	57,000	0	32,403	3,205
Central Washington	9,768	0	360	0	0
Inland Empire	43,542	22,349	13,500	0	0
<b>State Total</b>	<b>55,030</b>	<b>185,257</b>	<b>13,960</b>	<b>190,557</b>	<b>22,245</b>

Table 20: Degree of lumber manufacture (thousand board feet, lumber tally)

Production region	Moisture			Total	Lumber surface	
	Green	Kiln-dried	Air-dried		Rough	Surfaced
Puget Sound	626,484	444,174	6,278	<b>1,072,935</b>	162,174	910,761
Olympic Peninsula	778,805	1,157,741	0	<b>1,934,579</b>	257,541	1,677,038
Lower Columbia	559,720	205,275	0	<b>764,995</b>	162,231	602,764
Central Washington	14,858	298,112	0	<b>312,970</b>	19,718	293,252
Inland Empire	106,533	340,585	311	<b>447,429</b>	91,144	356,285
<b>State Total</b>	<b>2,086,400</b>	<b>2,441,886</b>	<b>6,589</b>	<b>4,532,908</b>	<b>692,807</b>	<b>3,840,101</b>

Table 21: Lumber production by headrig (thousand board feet, lumber tally)

Production region	All types	Circular saw	Band saw	Gang saw	Chipping saw	Scragg
						double cut saw
Puget Sound	1,072,935	1,869	498,994	557,695	14,377	0
Olympic Peninsula	1,936,546	5,787	906,973	558,380	300,343	165,063
Lower Columbia	764,995	0	661,295	0	85,200	18,500
Central Washington	312,970	43,430	143,173	29,917	96,000	450
Inland Empire	447,429	304	142,555	0	304,558	13
<b>State Total</b>	<b>4,534,875</b>	<b>51,390</b>	<b>2,352,990</b>	<b>1,145,992</b>	<b>800,478</b>	<b>184,026</b>



Table 22: Production and use of all types of wood residues(dry weight tons)

<b>All Types</b>							
Production region	Total	Total					Unused
		used	Pulp	Board	Fuel	Other	
Puget Sound	809,158	809,158	438,172	77,002	105,567	188,419	0
Olympic Peninsula	1,300,587	1,300,587	629,267	62,451	387,325	221,543	0
Lower Columbia	682,721	682,721	501,396	61,344	107,313	12,669	0
Central Washington	213,617	213,617	108,954	60,579	16,841	27,244	0
Inland Empire	332,061	332,061	191,670	80,045	42,559	17,788	0
<b>State total</b>	<b>3,338,144</b>	<b>3,338,144</b>	<b>1,869,459</b>	<b>341,421</b>	<b>659,605</b>	<b>467,663</b>	<b>0</b>

---

<b>Coarse</b>							
Production region	Total	Total					Unused
		used	Pulp	Board	Fuel	Other	
Puget Sound	367,807	367,807	313,259	0	11,434	43,114	0
Olympic Peninsula	498,194	498,194	382,834	0	48,853	66,507	0
Lower Columbia	379,675	379,675	346,328	0	33,119	228	0
Central Washington	93,534	93,534	92,106	0	1,428	0	0
Inland Empire	155,417	155,417	145,922	0	9,495	0	0
<b>State total</b>	<b>1,494,627</b>	<b>1,494,627</b>	<b>1,280,449</b>	<b>0</b>	<b>104,329</b>	<b>109,849</b>	<b>0</b>

---

<b>Fine</b>							
Production region	Total	Total					Unused
		used	Pulp	Board	Fuel	Other	
Puget Sound	233,158	233,158	95,981	11,770	41,708	83,699	0
Olympic Peninsula	417,696	417,696	218,677	33	133,740	65,246	0
Lower Columbia	166,012	166,012	102,796	0	62,050	1,166	0
Central Washington	67,602	67,602	16,848	14,048	15,413	21,293	0
Inland Empire	96,644	96,644	32,889	29,469	17,618	16,668	0
<b>State total</b>	<b>981,112</b>	<b>981,112</b>	<b>467,191</b>	<b>55,320</b>	<b>270,529</b>	<b>188,072</b>	<b>0</b>

---

<b>Medium</b>							
Production region	Total	Total					Unused
		used	Pulp	Board	Fuel	Other	
Puget Sound	208,195	208,195	28,932	65,232	52,425	61,606	0
Olympic Peninsula	384,696	384,696	27,756	62,418	204,732	89,790	0
Lower Columbia	137,035	137,035	52,272	61,344	12,144	11,275	0
Central Washington	52,482	52,482	0	46,531	0	5,951	0
Inland Empire	80,001	80,001	12,859	50,576	15,446	1,120	0
<b>State total</b>	<b>862,409</b>	<b>862,409</b>	<b>121,819</b>	<b>286,101</b>	<b>284,747</b>	<b>169,742</b>	<b>0</b>

Table 23: **Production and use of bark residue** (dry weight tons)

Production region	Total	Used					Unused
		Total used	Pulp	Board	Fuel	Other	
Puget Sound	278,542	278,542	0	0	52,887	225,655	0
Olympic Peninsula	503,511	503,503	56,421	6,800	314,004	126,278	8
Lower Columbia	201,896	201,896	2	0	136,104	65,790	0
Central Washington	80,746	80,746	0	0	75,386	5,360	0
Inland Empire	115,435	115,435	32	0	112,002	3,401	0
<b>State total</b>	<b>1,180,130</b>	<b>1,180,122</b>	<b>56,455</b>	<b>6,800</b>	<b>690,383</b>	<b>426,484</b>	<b>8</b>

**Veneer and Plywood Mills: Tables 27-35**

**Table 24: Number of veneer and plywood mills**

Production region	All types	Veneer only	Layup only	Veneer and Layup
Puget Sound	2	1	1	0
Olympic Peninsula	6	2	2	2
Lower Columbia	1	0	0	1
Central Washington	1	0	0	1
Inland Empire	1	0	0	1
<b>State Total</b>	<b>11</b>	<b>3</b>	<b>3</b>	<b>5</b>

**Table 25: Veneer and plywood mills 8-hour shift capacity** (thousand square feet, 3/8-inch basis)  
8-hour shift capacity is the total maximum volume produced under optimal conditions

Production region	Veneer only	Layup only	Veneer and Layup	
			Veneer	Layup
Puget Sound	400	300	0	0
Olympic Peninsula	520	360	425	2400
Lower Columbia	0	0	340	150
Central Washington	0	0	240	240
Inland Empire	0	0	250	250
<b>State Total</b>	<b>920</b>	<b>660</b>	<b>1255</b>	<b>3040</b>

**Table 26: Veneer and plywood mills by lathe log diameter limit** (in inches)

Production region	Layup only	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80+	Total
	Puget Sound	1	0	1	0	0	0	0	0	0
Olympic Peninsula	2	0	0	3	0	0	0	0	1	6
Lower Columbia	0	0	1	0	0	0	0	0	0	1
Central Washington	0	0	0	1	0	0	0	0	0	1
Inland Empire	0	0	1	0	0	0	0	0	0	1
<b>State Total</b>	<b>3</b>	<b>0</b>	<b>3</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>11</b>

**Table 27: Number of veneer and plywood mills by core size**

Production region	Lathe log diameter limit in inches										No Lathe or core	Total
	3	4	5	6	7	8	9	10	11			
Puget Sound	0	1	0	0	0	0	0	0	0	0	1	2
Olympic Peninsula	1	3	0	0	0	0	0	0	0	0	2	6
Lower Columbia	1	0	0	0	0	0	0	0	0	0	0	1
Central Washington	1	0	0	0	0	0	0	0	0	0	0	1
Inland Empire	1	0	0	0	0	0	0	0	0	0	0	1
<b>State Total</b>	<b>4</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>11</b>

**Table 28: Number of veneer and plywood mills by equipment**

Production region	4-foot	8-foot		Veneer	Core	Cold	Hot	
	lathe	lathe	Slicer	chipper	chipper	press	press	Burner
Puget Sound	0	1	0	1	1	1	1	1
Olympic Peninsula	1	4	0	3	3	0	3	1
Lower Columbia	1	1	0	1	1	0	1	0
Central Washington	0	1	0	1	1	0	1	0
Inland Empire	0	1	0	1	1	0	1	0
<b>State Total</b>	<b>2</b>	<b>8</b>	<b>0</b>	<b>7</b>	<b>7</b>	<b>1</b>	<b>7</b>	<b>2</b>

**Table 29: Average operating days per year by veneer mill type**

Plant type	Average Days	Number
	Statewide	of Mills
Veneer only	257	3
Layup only	295	3
Veneer and layup	283	5
<b>State Average</b>	<b>278</b>	<b>11</b>

**Table 30: Volume by log diameter** (thousand board feet, Scribner rule)

Minimum log diameter	Volume	Percent
Less than 5 inches	99,041	22
5.0 to 10.9 inches	191,540	43
11.0 to 20.9 inches	129,157	29
21 inches or more	29,027	6
<b>State total</b>	<b>448,765</b>	<b>100</b>

**Table 31: Production and use of wood residues from veneer and plywood mills**

(thousand board feet, Scribner rule)

Production region	Total	Used					Unused
		used	Pulp	Board	Fuel	Other	
Puget Sound	68,500	68,500	42,358	0	8,412	17,730	0
Olympic Peninsula	306,091	305,404	154,947	0	122,109	28,348	687
Lower Columbia	17,983	17,983	3,439	0	14,544	0	0
Central Washington	102,385	102,385	77,596	17,285	7,504	0	0
Inland Empire	136,838	136,838	112,462	0	24,376	0	0
<b>State Total</b>	<b>631,797</b>	<b>631,110</b>	<b>390,802</b>	<b>17,285</b>	<b>176,945</b>	<b>46,078</b>	<b>687</b>

**Table 32: Veneer and Plywood Production Statewide** (thousand square feet, 3/8-inch basis)**Production**

Veneer	463,356
Plywood	1,001,855
Other	0
<b>Total</b>	<b>1,465,211</b>

WASHINGTON MILL SURVEY 2002

**Pulp Mills: Tables 33-39**

Table 33: Pulp mills by processing type

Production region	Pulp Mills				
	All mills	Sulfite	Sulfate	Groundwood	Semi-chemical
Puget Sound	2	1	1	0	0
Olympic Peninsula	3	1	1	1	0
Lower Columbia	4	0	2	1	1
Inland Empire	2	0	0	2	0
<b>State Total</b>	<b>11</b>	<b>2</b>	<b>4</b>	<b>4</b>	<b>1</b>

Table 34: Pulp mill capacity (bone dry tons)

Pulp mill type	Capacity	Number of mills
Sulfite	940	2
Sulfate	6,277	4
Groundwood / semi-chemical	23,200	5
<b>State Total</b>	<b>30,417</b>	<b>11</b>



Table 35: Pulp mills' average operating days

Type of operation	Operating days	Number of Pulp Mills
Sulfite	354	2
Sulfate	350	4
Groundwood and Semi-chemical	349	5
<b>State Total</b>	<b>351</b>	<b>11</b>

Table 36: Pulp mill production by product and type of operation (bone dry tons)

Economic area	All products	Products				
		Newsprint	Bleached paper	Unbleached paper	Other paper	Market pulp
Puget Sound	588,266	0	158,266	0	350,000	80,000
Olympic Peninsula	616,136	0	316,712	0	145,074	154,350
Lower Columbia	1,918,129	705,721	355,423	807,161	0	49,824
Inland Empire	434,014	434,014	0	0	0	0
<b>State Total</b>	<b>3,556,545</b>	<b>1,139,735</b>	<b>830,401</b>	<b>807,161</b>	<b>495,074</b>	<b>284,174</b>

Table continued below

## Type of Operation

Sulfite	312,616	0	158,266	0	0	154,350
Sulfate	1,909,296	0	672,135	807,161	350,000	80,000
Groundwood	1,284,809	1,139,735	0	0	145,074	0
Semi-chemical	49,824	0	0	0	0	49,824
<b>State Total</b>	<b>3,556,545</b>	<b>1,139,735</b>	<b>830,401</b>	<b>807,161</b>	<b>495,074</b>	<b>284,174</b>

Table 37: Pulp mill wood used (except roundwood) (bone dry tons)

Production region	Total	Chips				
		Total Chips	Mill residues	Roundwood chipping mill	Sawdust and shavings	Waste paper
Puget Sound	1,160,260	980,260	895,920	84,340	0	180,000
Olympic Peninsula	843,898	561,534	377,872	183,662	85,087	197,277
Lower Columbia	2,624,330	2,309,244	1,810,125	499,119	51,492	263,594
Inland Empire	385,651	302,965	86,136	216,829	0	82,686
<b>State Total</b>	<b>5,014,139</b>	<b>4,154,003</b>	<b>3,170,053</b>	<b>983,950</b>	<b>136,579</b>	<b>723,557</b>

Table 38: **Chips and residues** (bone dry tons)

Production region	All species	Douglas	Hemlock	True	Spruce	Ponderosa	Lodgepole	Western	Other	Red	Other
	-fir			fir		pine	pine	red cedar	conifer	alder	hardwood
<b>Puget Sound</b>											
Roundwood chips	84,340	53,043	13,193	0	0	0	0	6,500	0	0	11,604
Residues	1,160,260										
<b>Total Chips</b>	<b>1,244,600</b>										
<hr/>											
<b>Olympic Peninsula</b>											
Roundwood chips	183,662	76,754	77,792	0	2,426	0	0	26,690	0	0	0
Residues	843,898										
<b>Total Chips</b>	<b>1,027,560</b>										
<hr/>											
<b>Lower Columbia</b>											
Roundwood chips	499,119	149,000	52,672	126,	0	40,687	44,765	14,747	14,747	23,828	31,852
Residues	2,624,330										
<b>Total Chips</b>	<b>3,123,449</b>										
<hr/>											
<b>Inland Empire</b>											
Roundwood chips	8,029	8,029	0	0	0	0	0	0	0	0	0
Residues	385,651										
<b>Total Chips</b>	<b>393,680</b>										
<hr/>											
<b>State Total</b>											
Roundwood chips	<b>775,150</b>	<b>286,825</b>	<b>143,65</b>	<b>126,</b>	<b>2,426</b>	<b>40,687</b>	<b>44,765</b>	<b>47,936</b>	<b>14,747</b>	<b>23,828</b>	<b>43,456</b>
Residues	<b>5,014,139</b>										
<b>Total Chips</b>	<b>5,789,289</b>										

Table 39: **Residue and off-site chip use by state or province** (bone dry tons)

Production region	Total				British Columbia		
	volume	Washington	Oregon	Idaho	Montana	Columbia	Other
<b>Puget Sound</b>							
Chip residue	1,160,260						
Chip roundwood	84,340	77,840	0	0	0	6,500	0
Sawdust and shavings	0	0	0	0	0	0	0
<b>Total</b>	<b>1,244,600</b>	<b>77,840</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6,500</b>	<b>0</b>
<hr/>							
<b>Olympic Peninsula</b>							
Chip residue	843,898						
Chip roundwood	183,662	175,170	0	0	0	8,492	0
Sawdust and shavings	85,087	79,131	0	0	0	5,956	0
<b>Total</b>	<b>1,112,647</b>	<b>254,301</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>14,448</b>	<b>0</b>
<hr/>							
<b>Lower Columbia</b>							
Chip residue	2,624,330						
Chip roundwood	499,119	361,027	129,192	7,629	1,271	0	0
Sawdust and shavings	51,492	46,343	5,149	0	0	0	0
<b>Total</b>	<b>3,174,941</b>	<b>407,370</b>	<b>134,341</b>	<b>7,629</b>	<b>1,271</b>	<b>0</b>	<b>0</b>
<hr/>							
<b>Inland Empire</b>							
Chip residue	385,651						
Chip roundwood	216,829	101,989	0	98,136	2,088	14,616	0
Sawdust and shavings	0	0	0	0	0	0	0
<b>Total</b>	<b>602,480</b>	<b>101,989</b>	<b>0</b>	<b>98,136</b>	<b>2,088</b>	<b>14,616</b>	<b>0</b>
<hr/>							
<b>State Total</b>							
Chip residue	5,014,139						
Chip roundwood	983,950	716,026	129,192	105,765	3,359	29,608	0
Sawdust and shavings	136,579	125,474	5,149	0	0	5,956	0
<b>Total</b>	<b>6,134,668</b>	<b>841,499</b>	<b>134,341</b>	<b>105,765</b>	<b>3,359</b>	<b>35,564</b>	<b>0</b>

**Shake and Shingle Mills:** Tables 40-45

**Table 40: Shake and shingle mills' capacity and operating days**

Production region	Number of mills	Total single shift capacity (Squares)			Average number of operating days/year
		Shake	Shingle	Other	
Puget Sound	4	68	114	200	218
Olympic Peninsula	18	1,293	427	119	190
Lower Columbia	1	0	25	0	200
<b>State Total</b>	<b>23</b>	<b>1,361</b>	<b>566</b>	<b>319</b>	<b>195</b>

**Table 41: Shake and shingle mills with selected equipment**

	Chipper	Barker	Burner
<b>State Total</b>	<b>1</b>	<b>0</b>	<b>6</b>

**Table 42: Wood used** (thousand board feet, Scribner rule)

	All types	Sound logs	Utility logs	Other (shake bolts, etc.)
<b>State Total</b>	<b>12,156</b>	<b>2,022</b>	<b>0</b>	<b>10,134</b>

**Table 43: Ownership origin of logs**(thousand board feet, Scribner rule)

	All owners	State	National Forest	Bureau of Land Management			Forest industry		Native American	Farmer and miscellaneous private
				Other public	Own wood supply	Other wood supply				
<b>State Total</b>	<b>2,022</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>659</b>	<b>401</b>	<b>963</b>	

**Table 44: Shake mill production**(squares)

	Product			Total
	Shakes	Shingles	Other	
<b>State Total</b>	<b>9,553</b>	<b>77,219</b>	<b>41,757</b>	<b>128,529</b>

Table 45: **Shake mill wood and bark residues** (dry weight tons)

<b>All Wood Types</b>						
	Total	Total	Pulp	Fuel	Other	Unused
	Total	used				
State Total	56,696	40,350	0	36,446	3,904	16,346
<b>Coarse</b>						
	Total	Total	Pulp	Fuel	Other	Unused
	Total	used				
State Total	13,880	9,441	0	8,893	548	4,439
<b>Fine</b>						
	Total	Total	Pulp	Fuel	Other	Unused
	Total	used				
State Total	42,816	30,909	0	27,553	3,356	11,907
<b>Bark</b>						
	Total	Total	Pulp	Fuel	Other	Unused
	Total	used				
State Total	31,832	27,427	0	10,003	17,424	4,405

**Post, Pole and Piling Mills:** Tables 46-49

**Table 46: Post, pole and piling mills operation characteristics**

	Number of mills	Yearly installed cap acity (thousand board feet Scribner rule)		Average number of operating days in 2002	
		Peeling	Treatment	Peeling	Treatment
		<b>State Total</b>	<b>6</b>	<b>41,107</b>	<b>10,593</b>

**Table 47: Post, pole and piling mills with selected equipment**

	Number of mills	Peeler	Burner
<b>State Total</b>	<b>6</b>	<b>6</b>	<b>0</b>

**Table 48: Log use by diameter** (thousand board feet, Scribner rule)

	Total	Diameter in inches			
		Less than 5	5-10.9	11-20.9	21 or more
<b>State Total</b>	<b>30,593</b>	<b>3,814</b>	<b>19,685</b>	<b>7,095</b>	<b>0</b>

**Table 49: Mill shipments** (thousand board feet, Scribner rule)

Production region	Treated	Untreated	Total
Puget Sound	12,795	906	13,701
Olympic Peninsula	250	38,222	38,472
Inland Empire	187	21	208
<b>State Total</b>	<b>13,232</b>	<b>39,149</b>	<b>52,381</b>



WASHINGTON MILL SURVEY 2002

**Log Exports:** Tables 50-57

Table 50: Log export operations and volume

Port	County	Number of operations	Volume of logs exported
<b>Puget Sound</b>			
Anacortes	Skagit	3	10,130
Everett	Snohomish	5	42,952
Tacoma	Pierce	5	117,690
	Total	13	170,772
<b>Olympic Peninsula</b>			
Aberdeen	Grays Harbor	3	104,866
Olympia	Thurston	9	63,446
Port Angeles	Clallam	2	1,167
	Total	14	169,479
<b>Lower Columbia</b>			
Longview	Cowlitz	12	543,147
	Total	12	543,147
<b>State Total</b>		<b>39</b>	<b>883,398</b>

Table 51: Logs exported by diameter (thousand board feet, Scribner rule)

Production region	Total	Diameter in inches			
		Less than 5	5 - 10.9	11 - 20.9	21 +
Puget Sound	170,772	0	36,887	120,637	13,248
Olympic Peninsula	169,479	580	34,584	118,354	15,961
Lower Columbia	543,147	4,756	132,397	361,138	44,856
<b>State Total</b>	<b>883,398</b>	<b>5,336</b>	<b>203,867</b>	<b>600,128</b>	<b>74,066</b>

**Table 52: Log exports by species** (thousand board feet, Scribner rule)

Production region	All species	Douglas-		True		Ponderosa pine	Lodgepole pine	Western red cedar	Other conifer	Red alder	Other hardwood
		fir	Hemlock	fir	Spruce						
Puget Sound	170,772	156,68	12,157	1,132	0	0	0	0	400	0	403
Olympic Peninsula	169,479	124,73	43,041	1,292	9	0	0	400	0	0	0
Lower Columbia	543,147	522,01	19,926	657	0	0	0	550	0	0	0
<b>State Total</b>	<b>883,398</b>	<b>803,433</b>	<b>75,123</b>	<b>3,080</b>	<b>9</b>	<b>0</b>	<b>0</b>	<b>950</b>	<b>400</b>	<b>0</b>	<b>403</b>

**Table 53: Ownership origin of export logs**(thousand board feet, Scribner rule)

Region	All owners	State	Forest industry						
			National Forest	Bureau of Land Management	Other public	Own wood supply	Other wood supply	Native American	Farmer and miscellaneous private
Puget Sound	170,772	0	0	0	0	95,435	40,955	0	34,383
Olympic Peninsula	169,479	0	0	0	0	90,491	54,670	173	24,145
Lower Columbia	543,147	0	0	0	0	239,450	252,822	0	50,876
<b>State Total</b>	<b>883,398</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>425,375</b>	<b>348,446</b>	<b>173</b>	<b>109,403</b>

**Note:** Export of logs from public lands is prohibited by federal law

WASHINGTON MILL SURVEY 2002

**Chipping Mills:** Tables 54-57

Table 54: **Capacity and operating days of chipping mills** bone dry tons

Production region	Number of Operations	8-hour capacity	Average days operated
Puget Sound	3	675	202
Olympic Peninsula	4	1,230	236
Lower Columbia	4	952	112
Inland Empire	2	1,007	162
<b>State Total</b>	<b>13</b>	<b>3,864</b>	<b>178</b>

Table 55: **Chip logs by diameter** (thousand board feet, Scribner rule)

Production region	Total	Diameter in inches			
		Less than 5	5 - 10.9	11 - 20.9	21 or more
Puget Sound	17,365	5,382	4,252	3,932	3,799
Olympic Peninsula	69,625	46,215	13,011	3,781	6,618
Lower Columbia	31,055	19,678	4,507	3,810	3,060
Inland Empire	73,184	11,774	12,092	35,318	14,000
<b>State Total</b>	<b>191,229</b>	<b>83,048</b>	<b>33,862</b>	<b>46,842</b>	<b>27,477</b>

**Table 56: Ownership origin of logs** (thousand board feet, Scribner rule)

Production region	All owners	State	National Forest	Bureau of Land Management	Other public	Forest industry		Native American	Farmer and miscellaneous private
						Own wood supply	Other wood supply		
Puget Sound	17,365	2,656	151	0	756	0	11,433	35	2,334
Olympic Peninsula	69,625	14,825	1,231	0	1,211	0	37,787	1,882	12,688
Lower Columbia	31,055	1,791	1,936	0	138	9,549	9,622	0	8,019
Inland Empire	73,184	7,318	3,818	0	0	0	50,592	318	11,137
<b>State Total</b>	<b>191,229</b>	<b>26,591</b>	<b>7,136</b>	<b>0</b>	<b>2,105</b>	<b>9,549</b>	<b>109,434</b>	<b>2,235</b>	<b>34,178</b>

**Table 57: Chip logs by species and economic region** (thousand board feet, Scribner rule)

Production region	All species	Douglas -fir	Hemlock	True fir	Spruce	Ponderosa pine	Lodgepole pine	Western red cedar	Other conifer	Red alder	Other hardwood
Puget Sound	17,365	3,887	5,700	2,277	156	0	0	302	302	2,872	1,867
Olympic Peninsula	69,625	27,41	26,025	116	58	0	1,572	1,562	0	11,60	1,270
Lower Columbia	31,055	6,980	2,255	5,159	0	1,708	1,139	0	0	12,43	1,381
Inland Empire	73,184	4,137	159	61,410	32	7,318	96	32	0	0	0
<b>State Total</b>	<b>191,229</b>	<b>42,419</b>	<b>34,140</b>	<b>68,963</b>	<b>246</b>	<b>9,027</b>	<b>2,807</b>	<b>1,897</b>	<b>302</b>	<b>26,911</b>	<b>4,518</b>