APPENDIX

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 toward the use of cubic measurement.

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

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

The following measurement units were used:

- o Board foot lumber tally is used for Lumber production.
- o Square feet 3/8-inch basis is used for Plywood and Veneer production.
- o Square (10'x10' area coverage) is used for Shake and Shingle production.
- o Board foot Scribner is used for Log Export shipments and for Pole, Post and Piling production.

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

Unit Conversion Used in this Report

Lumber Industry		
1.3 board feet lumber tally	= 1 board foot, Scribner (Approximately)	
Veneer and Plywood (3/8-inch basis)		
2.5 square feet	= 1 board foot, Scribner	
1 square foot	= 0.885 square meters	
1,130 square feet	= 1 cubic meter	
Pulp and Board		
1 cord	= 500 board feet	= 2.41 cubic meters(S.W.E.)[1]
1 short ton	= 500 board feet	= 0.907 metric tons
200 cubic foot units	= 1 bone dry ton	= 0.907 metric tons
1 bone dry unit	= 1.2 bone dry tons	= 1.088 metric tons
Shake and Shingle		
10 squares[2]	= 1,000 board feet	= 4.7 cubic Meters(S.W.E.)[1]
Pole, Post and Piling		
1 cubic foot	= 6 board feet	
All Industries		
211.9 board feet	= 1 cubic meter	

[1] (S.W.E.) = solid wood equivalent
[2] One square covers 100 square feet

MILL RESIDUES

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

Softwood Sawmill Residues†

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

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

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

††Green Volume.

Softwood Plywood Residues†

Average quantity of residue developed in producing the equivalent of 1,000 square feet of ⅜-inch plywood (rough basis).

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

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

††Green Volume.

Shingle Mill Residues†

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

Shake and shingle residue	Solid volume (Cubic Feet)	Solid volume (Percent)	Dry weight (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.

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

†Based on information furnished by Northwest Hardwoods, Inc.

SAWMILL QUESTIONNAIRE

WASHINGTON FOREST INDUSTRY SURVEY 1982

Sawmill Questionnaire

(Information on individual plants will be held confidential)

FOR OFFICE USE ONLY

1. Mill Identity

Firm Name _____ Prepared by _____

Address _____ Name of Mill Manager _____
Street or P. O. Box

_____ Phone # _____
City State Zip Code

Mill Location _____ Date _____
City County

2. Mill Characteristics

Hours per shift ____. Average number of shifts per day _____.

Maximum capacity per shift _____,000 board feet lumber tally.

Days operated during 1982 _____.

Years mill has been in present location _____.
Under present ownership _____.

Type of Head Rig (Check those that apply)	Maximum Log Diameter (inches)	Percent of Total Production From Each Type
Circular ☐	_____	_____%
Band ☐	_____	_____%
Gang ☐	_____	_____%
Chipping ☐	_____	_____%
Scragg ☐	_____	_____%

Equipment operated during 1982 (check those that apply)

Burner ____ Planer ____ Chipper ____ Kiln ____ Barker ____

Minimum diameter of log used _____ inches.

Is there a retail yard at this mill location? Yes ☐ No ☐

3. Wood Consumption During 1982
(If not in Scribner, please indicate scale and conversion)

a. Log Consumption _____,000 board feet net scale
Percent of log consumption from dead trees _____%
Percent of log consumption of utility grade* _____%

b. Peeler cores _____ (Units)

c. Cants ____ Lumber ____ Other ____ _____ (Units)

Specify log scale used if other than Scribner and conversion factor, if appropriate: _____

*Utility logs - Less than Number 3 sawlogs in grade or having the following minimum specifications: 6 inch diameter, 12 foot length, 50+ percent gross scale chippable.

4. Total Log Inventory:

(Beginning of Year) 1/01/82 _____,000 Board feet

(End of Year) 12/31/82 _____,000 Board feet

5. Log Consumption by Species During 1982

Douglas fir	_____%
Hemlock	_____%
True firs	_____%
Spruce	_____%
Ponderosa pine	_____%
Lodgepole pine	_____%
Western redcedar	_____%
Other conifers	_____%
Western hardwoods	_____%
Other hardwoods	_____%
	100 %

6. Origin of Logs Consumed During 1982

a. State or Province of Origin

Washington	_____%
Oregon	_____%
Idaho	_____%
British Columbia	_____%
Other	_____%
	100 %

b. County of Origin (Washington)

_____	____%	49
_____	____%	50
_____	____%	51
_____	____%	52
_____	____%	53
_____	____%	54
From Outside Washington	____%	55
	100 %	

c. Age Group

Old Growth (100 Years +)	____%	56
Young Growth	____%	57
	100 %	

d. Ownership Origin

State	____%	58
U.S. Forest Service*	____%	59
BLM	____%	60
Other Public (Indian, etc.)	____%	61
Forest Industry { Own Supply	____% (from timberlands owned by your company)	62
Forest Industry { Other Supply	____% (from other forest industry timberlands)	63
Farmer & Misc. Private	____%	64
	100 %	

*Name of National Forest _____ ____%: _____ ____%: 65 66

_____ ____%: _____ ____% 67

68

7. 1982 Lumber Production:

Softwood		Hardwood		
Produced ____,000 bf lumber tally		Produced ____,000 bf lumber tally		69
Green	____%	Green	____%	70
Kiln-dried	____%	Kiln-dried	____%	71
Air-dried	____%	Air-dried	____%	72
	100 %		100 %	73
Surfaced	____%	Surfaced	____%	74
Rough	____%	Rough	____%	75
	100 %		100 %	76
				77
				78
				79
				80

8. Disposition of Plant Residues

Indicate residue by type as a percent.

USED	Coarse*	Sawdust	Shavings	Bark
For plant fuel	____% 81	____% 82	____% 83	____% 84
Sold for fuel	____% 85	____% 86	____% 87	____% 88
For pulp (incl. export)	____% 89	____% 90	____% 91	____% 92
For board	____% 93	____% 94	____% 95	____% 96
For other purposes	____% 97	____% 98	____% 99	____% 100
UNUSED				
Burned	____% 101	____% 102	____% 103	____% 104
Unburned	____% 105	____% 106	____% 107	____% 108
	100%	100%	100%	100%

*Includes slabs, edgings, sawmill trim, and planer trim.

9. If you desire to receive a copy of the Mill Survey report resulting from this study, please check here ( ).

10. The Department of Natural Resources plans to publish a Forest Products Directory listing the name and address of each plant. Also, with your permission, we would like to include the following selected information concerning your plant:

1. Daily per shift production class: under 15 MBF, 15 to 29 MBF, 30 to 39 MBF, 40 to 49 MBF, over 50 MBF
2. Number of shifts per day
3. Species processed
4. Maximum and minimum log diameter limits
5. Type of largest head rig
6. Retail yard - ( ) Yes ( ) No
7. Does your mill presently export products abroad? ( ) Yes ( ) No
   If your mill does not export, is your firm interested in exporting? ( ) Yes ( ) No

( ) Permission granted to place the selected information in the Directory.

( ) Permission granted, but do not include the circled items on the above list.

Thank you for your help with this questionnaire. When you have answered the questions as completely as possible, please fold this form, enclose it in the postage paid envelope provided and mail it.

VENEER AND PLYWOOD QUESTIONNAIRE

WASHINGTON FOREST INDUSTRY SURVEY 1982
Veneer and Plywood Questionnaire

(Information on individual plants will be held confidential)

FOR OFFICE USE ONLY

1. Mill Identity

Firm Name _____ Prepared by _____

Address _____ Name of Mill Manager _____
Street or P. O. Box

_____ Phone # _____
City State Zip Code

Mill Location _____ Date _____
City County

2. Mill Characteristics

Hours per shift _____. Average number of shifts per day _____.

Operations: Veneer only ☐ Layup only ☐ Veneer and Layup ☐

Maximum veneer capacity per shift ____,000 sq. ft. 3/8 inch basis.

Maximum layup capacity per shift ____,000 sq. ft. 3/8 inch basis.

Days operated during 1982 _____.

Years mill has been in present location _____.

Years under present ownership _____.

Lathe diameter limit (maximum log size) _____ inches.

Minimum diameter of log used _____ inches.

Equipment:

4-foot lathe ☐, slicer ☐, cold press ☐, veneer chipper ☐

8-foot lathe ☐, burner ☐, hot press ☐, core chipper ☐

Average core size _____ inches.

Is there a retail yard at this mill location? Yes ☐ No ☐

3. Wood Consumption During 1982
(If not in Scribner, please indicate scale and conversion)

a. Log consumption _____,000 board feet net scale.

Percent of log consumption from dead trees _____%.

Percent of log consumption of utility grade* _____%.

*Utility logs - less than Number 3 sawlogs in grade or having the following minimum specifications: 6 inch diameter, 12 foot length, 50 + percent gross scale chippable.

b. Purchased or transferred in veneer _____,000 sq. ft. 3/8 inch.

Specify log scale used if other than Scribner and conversion factor, if appropriate: _____

4. Total Log Inventory:

(Beginning of Year) 1/01/82 _____,000 Board feet

(End of Year) 12/31/82 _____,000 Board feet

5. Log Consumption by Species During 1982

Douglas fir	____%
Hemlock	____%
True firs	____%
Spruce	____%
Ponderosa pine	____%
Lodgepole pine	____%
Western redcedar	____%
Other conifers	____%
Western hardwoods	____%
Other hardwoods	____%
	100 %

6. Origin of Logs Consumed During 1982

a. State or Province of Origin

Washington	____%
Oregon	____%
Idaho	____%
British Columbia	____%
Other	____%
	100 %

b. County of Origin (Washington)

_____	____%
_____	____%
_____	____%
_____	____%
_____	____%
_____	____%
From Outside Washington	____%
	100 %

c. Age Group

Old Growth (100 Years +)	____%
Young Growth	____%
	100 %

d. Ownership Origin

State	_____%	54
U.S. Forest Service*	_____%	55
BLM	_____%	56
Other Public (Indian, etc.)	_____%	57
Forest Industry { Own Supply	_____% (from timberlands owned by your company)	58
Forest Industry { Other Supply	_____% (from other forest industry timberlands)	59
Farmer & Misc. Private	_____%	60
	100 %	

*Name of National Forest _____ _____%: _____ _____%: 61

_____ _____%: _____ _____% 62 63 64

7. 1982 Veneer and Plywood Production

Veneer for sale or transfer _____,000 sq. ft. 3/8 inch _____ 1 inch _____ 65

Plywood _____,000 sq. ft. 3/8 inch _____ 1 inch _____ 66

8. Disposition of Plant Residues During 1982

Indicate disposition of residue by type as a percent.

	Log trim, Spur trim, Roundup, Veneer clip	Core	Panel trim Reject veneer	Sander Dust	Bark
USED					
For plant fuel	___% 67	___% 68	___% 69	___% 70	___% 71
Sold for fuel	___% 72	___% 73	___% 74	___% 75	___% 76
For pulp	___% 77	___% 78	___% 79	___% 80	___% 81
For board	___% 82	___% 83	___% 84	___% 85	___% 86
For other purposes	___% 87	___% 88	___% 89	___% 90	___% 91
UNUSED					
Burned	___% 92	___% 93	___% 94	___% 95	___% 96
Unburned	___% 97	___% 98	___% 99	___% 100	___% 101
	100%	100%	100%	100%	100%

9. Percent Distribution by State of all Veneer Sold or Transferred

Washington	_____%	British Columbia	_____%
California	_____%	Oregon	_____%
Idaho	_____%	Other	_____%

102 103 104 105 106 107

10. If you desire to receive a copy of the Mill Survey report resulting from this study, please check here ( ).

11. The Department of Natural Resources plans to publish a Forest Products Directory listing the name and address of each plant. Also, with your permission, we would like to include the following selected information concerning your plant:

1. Daily per shift production class converted as follows: under 15 MBF, 15 to 29 MBF, 30 to 39 MBF, 40 to 49 MBF, over 50 MBF
2. Number of shifts per day
3. Species processed
4. Maximum and minimum log diameter limits
5. Type of plant
6. Lathe and press equipment
7. Retail yard - ( ) Yes ( ) No
8. Does your mill presently export products abroad? ( ) Yes ( ) No
   If your mill does not export, is your firm interested in exporting?
   ( ) Yes ( ) No

( ) Permission granted to place the selected information in the Directory.

( ) Permission granted, but do not include the circled items on the above list.

Thank you for your help with this questionnaire. When you have answered the questions as completely as possible, please fold this form, enclose it in the postage paid envelope provided and mail it.

PULP AND BOARD MILL QUESTIONNAIRE

WASHINGTON FOREST INDUSTRY SURVEY 1982

Pulp and Board Mill Questionnaire

(Information on individual plants will be held confidential)

1. Mill Identity

Firm Name _____

Address _____
Street or P. O. Box

_____
City State Zip Code

Mill Location _____
City County

Prepared by _____

Name of Mill Manager _____

Phone Number _____

Date _____

2. Mill Characteristics

a. Operation (Use a different form for each type of operation)

PULP MILL		BOARD MILL	
Sulfite	____	Hardboard	____
Sulfate	____	Particleboard	____
Groundwood		Insulation board	____
Disk refiner	____		
Drum refiner	____		
Semichemical	____		

b. Production Capacity

_____ BD Tons/24 hrs.

units, if different _____

_____ Million sq. ft./yr.

Specify basis:
1/8" ___, 1/2" ___, 3/4" ___

c. Mill Production in 1982

Newsprint	_____	(tons)
Bleached Papers	_____	(tons)
Unbleached (Not newsprint)	_____	(tons)
Market pulp	_____	(BD tons)
Other Paper Products	_____	(tons)

Hardboard _____
Million sq. ft./yr. ___ basis

Particleboard _____
Million sq. ft./yr. ___ basis

Insulation board _____
Million sq. ft./yr. ___ basis

d. Days Operated During 1982 _____.

e. Years mill has been in present location _____.
Years under present ownership _____.

3. Wood Consumption During 1982 (see page 4 for definitions)

a. Log Consumption _____,000 board feet gross scale
Percent of sound logs from dead trees _____%.
Percent of utility logs and cordwood _____%

INCLUDE ONLY MATERIALS USED IN THE PRODUCTION PROCESS IN ITEMS b-h;
INCLUDE MATERIALS USED AS FUEL UNDER i.

	VOLUME	
b. Chips from mill residue (sawmill, plywood and veneer)	_____	specify units used
c. Chips from other sources (roundwood chipping plants)	_____	specify units used
d. Sawdust	_____	specify units used
e. Shavings	_____	specify units used
f. Bark	_____	specify units used
g. Wastepaper	_____	specify units used
h. Market pulp	_____	specify units used
i. Total tons of hog fuel	_____	specify units used

4. Consumption by Species During 1982

INCLUDE ONLY MATERIALS USED IN THE PRODUCTION PROCESS.

	Logs	Chips from Roundwood Chipping Plants
Douglas fir	____%	____%
Hemlock	____%	____%
True firs	____%	____%
Spruce	____%	____%
Ponderosa pine	____%	____%
Lodgepole pine	____%	____%
Western redcedar	____%	____%
Other softwoods	____%	____%
Western hardwoods	____%	____%
Other hardwoods	____%	____%
	100 %	100 %

5. Origin of Wood Consumed During 1982

a. State or Province of Origin

	Logs	Chips from Roundwood Chipping Plants
Washington	____%	____%
Oregon	____%	____%
Idaho	____%	____%
British Columbia	____%	____%
Other	____%	____%
	100 %	100 %

	Sawdust & Shavings	Bark
Washington	____%	____%
Oregon	____%	____%
Idaho	____%	____%
British Columbia	____%	____%
Other	____%	____%
	100 %	100 %

b. Ownership Origin:

	Logs
State	____%
U.S. Forest Service*	____%
BLM	____%
Other Public (Indian, etc.)	____%
Forest Industry { Own Supply	____% (from timberlands owned by your own company)
Forest Industry { Other Supply	____% (from other forest industry timberlands)
Farmer & Misc. Private	____%
	100 %

*Name of National Forest _____ ____%: _____ ____%:
_____ ____%: _____ ____%

c. Age Group

	Logs
Old Growth (100 Years +)	____%
Young Growth	____%
	100 %

d. County of Origin (Washington)

	Logs
_____	____%
_____	____%
_____	____%
_____	____%
_____	____%
_____	____%
From Outside Washington	____%
	100 %

DEFINITIONS

Wood Consumption - Items a-h indicate the nature of the wood or fiber as it comes into your woodyard--before any processing or breakdown.

Utility Logs - Logs of lower quality than Number 3 sawlogs or usually having the following minimum specifications: 6 inches diameter, 12 foot length, 50 + percent of gross scale chippable.

Cordwood - Any log below the minimum specification stated for utility logs.

Specify log scale used if other than Scribner and conversion factor, if appropriate: _____

_____

6. If you desire to receive a copy of the Mill Survey report resulting from this study, please check here ( ).

7. The Department of Natural Resources plans to publish a Forest Products Directory listing the name and address of each plant. Also, with your permission, we would like to include the following selected information concerning your plant:

   1. Daily per shift production class converted as follows: under 15 MBF, 15 to 29 MBF, 30 to 39 MBF, 40 to 49 MBF, over 50 MBF
   2. Species processed
   3. Type of plant
   4. Does your mill presently export products abroad? ( ) Yes ( ) No
      If your mill does not export, is your firm interested in exporting? ( ) Yes ( ) No

( ) Permission granted to place the selected information in the Directory.

( ) Permission granted, but do not include the circled items on the above list.

Thank you for your help with this questionnaire. When you have answered the questions as fully as possible, please fold this form, enclose it in the postage paid envelope and mail it.

SHAKE AND SHINGLE MILL QUESTIONNAIRE

WASHINGTON FOREST INDUSTRY SURVEY 1982

Shake and Shingle Mill Questionnaire

(Information on individual mills will be held confidential)

DID YOU OPERATE YOUR MILL EQUIPMENT DURING 1982?

☐ Yes. Complete the questionnaire beginning with Question 1.

☐ No. Do you still own your equipment?

☐ Yes

☐ No. Sold equipment or dismantled mill.

☐ Never did own equipment

If you did not operate your equipment during 1982, only answer Question 1, then fold, place in envelope provided and mail.

FOR OFFICE USE ONLY

1. Mill Identity

Firm Name _____

Address _____
Street or P. O. Box

_____
City State Zip Code

Mill Location _____
City County

Prepared by _____

Name of Mill Manager _____

Phone # _____

Date _____

2. Mill Characteristics

Hours per shift _____. Average number of shifts per day _____.

Years mill has been in present location _____.

Years under present ownership_____.

Maximum output capacity per shift (circle one)

Shakes _____ squares or bundles

Shingle _____ squares or bundles

Hip & ridge _____ squares or bundles

Other (specify) _____ squares or bundles

Days operated during 1982 _____.

Check equipment operated during 1982: chipper ___ barker ___ burner ___

Is there a retail yard at this mill location? Yes ☐ No ☐

3. Wood Consumption During 1982 (See general definitions on page 4)
(If scale used is other than Scribner, indicate below)

a. Log Consumption _____,000 board feet net scale

Percent of logs from dead trees _____%

Percent of utility grade _____%

b. Other (Blocks, Bolts. Lumber, etc.) (Specify) (Amount) (Units)

Specify log scale used if other than Scribner and conversion factor, if appropriate: _____

IF YOU USED LOGS, COMPLETE QUESTIONS 4, 5, 6, and 7.

IF YOU ONLY USED BLOCKS, BOLTS, LUMBER, ETC., GO TO QUESTIONS 6 and 7.

4. Consumption by Species During 1982

	Log Consumption
Western redcedar	____%
Other	____%
	100 %

5. Origin of Logs Consumed During 1982

a. State or Province of Origin:

	Log Consumption
Washington	____%
Oregon	____%
Idaho	____%
British Columbia	____%
Other	____%
	100 %

b. County of Origin (Washington)

_____	____%
_____	____%
_____	____%
_____	____%
_____	____%
_____	____%
From Outside Washington	____%
	100 %

c. Age Group:

Old Growth (100 Years +) _____%

Young Growth _____%

100 %

d. Ownership Origin:

State _____%

U.S. Forest Service* _____%

BLM _____%

Other Public (Indian, etc.) _____%

Forest Industry { Own Supply _____% (from timberlands owned by your company)
Forest Industry { Other Supply _____% (from other forest industry timberlands)

Farmer & Misc. Private _____%

100 %

*Name of National Forest _____ _____%: _____ _____%

_____ _____%: _____ _____%

6. 1982 Production:

Shakes _____ squares or _____ bundles

Shingles _____ squares or _____ bundles

Hip & ridge _____ squares or _____ bundles

Other _____ squares or _____ bundles

7. Disposition of Residue (Indicate residue by type as a percent)

If you used logs, explain use of coarse, sawdust and bark.

If you only used blocks, bolts, lumber, etc., only explain use of coarse and sawdust.

USED	Coarse	Sawdust	Bark
For plant fuel	___% (52)	___% (53)	___% (54)
Sold for fuel	___% (55)	___% (56)	___% (57)
For pulp (incl. export)	___% (58)	___% (59)	___% (60)
For board	___% (61)	___% (62)	___% (63)
For other purposes	___% (64)	___% (65)	___% (66)
UNUSED			
Burned	___% (67)	___% (68)	___% (69)
Unburned	___% (70)	___% (71)	___% (72)
	100%	100%	100%

General Definitions

a. Utility logs - Logs of lower quality than Number 3 sawlogs and usually having the following minimum specifications: 6 inches diameter, 12 foot length, 50 + percent of gross scale.

b. Other - Any other roundwood or other material (blocks, bolts, boards, etc.).

8. If you desire to receive a copy of the Mill Survey report, please check here ( )

9. The Department of Natural Resources plans to publish a Forest Products Directory listing the name and address of each plant. Also, with your permission, we would like to include the following selected information concerning your plant:

1. Daily per shift production class converted as follows: under 15 MBF, 15 to 29 MBF, 30 to 39 MBF, 40 to 49 MBF, over 50 MBF
2. Number of shifts per day
3. Type of product
4. Retail yard - ( ) Yes ( ) No
5. Does your mill presently export products abroad? ( ) Yes ( ) No
   If your mill does not export, is your firm interested in exporting? ( ) Yes ( ) No

( ) Permission granted to place the selected information in the Directory.

( ) Permission granted, but do not include the circled items on the above list.

Thank you for your help with this questionnaire. When you have answered the questions as completely as possible, please fold, enclosed it in the postage paid envelope and mail it.

POLE, POST AND PILING QUESTIONNAIRE

WASHINGTON FOREST INDUSTRY SURVEY 1982

Post, Pole and Piling Questionnaire

(Information on individual firms will be held confidential)

FOR OFFICE USE ONLY

1 6

1. Mill Identity

Firm Name _____

Address _____
Street or P. O. Box

_____
City State Zip Code

Mill Location _____
City County

Prepared by _____ 2

Name of Mill Manager _____

Phone # _____

Date _____

3

2. Mill Characteristics

Type of wood treatment used (if any) _____

Years mill has been in present location ____; under present ownership ____. 4 5

	Peeling Capacity (daily or yearly, circle one)	Treatment Capacity (daily or yearly, circle one)	Specify Units: 1,000 bd. ft. Scribner	cubic ft.*	lineal ft.*	pieces*	
Posts	_____	_____	☐	☐	☐	☐	6
Poles	_____	_____	☐	☐	☐	☐	7 8 9
Piling	_____	_____	☐	☐	☐	☐	10 11

Days operated during 1982 Peeling _____ 12

Treatment _____ 13

Equipment operated during 1982 Barker _____ Burner _____ 14 15

*IMPORTANT: If capacity numbers above are not given in MBF Scribner, please complete the following:

Average Length _____ Average Small End Diameter _____.

Log Scale Used _____

3. Wood Consumption During 1982

	Consumption	Specify Units: 1,000 bd. ft. Scribner	cubic ft.	lineal ft.	pieces	
a. Posts	_____	☐	☐	☐	☐	16
b. Barkie poles	_____	☐	☐	☐	☐	17
c. Barkie piling	_____	☐	☐	☐	☐	18

Specify log scale used if other than Scribner and conversion factor, if appropriate: _____

4. Consumption by Species During 1982

Species	Logs	
Douglas fir	____%	19
Hemlock	____%	20
True firs	____%	21
Spruce	____%	22
Ponderosa pine	____%	23
Lodgepole pine	____%	24
Western redcedar	____%	25
Other conifers	____%	26
Red alder	____%	27
Other hardwoods	____%	28
	100 %	

5. Origin of Logs Consumed During 1982

a. State or Province of Origin:

Washington	____%	29
Oregon	____%	30
Idaho	____%	31
British Columbia	____%	32
Other	____%	33
	100 %	

b. County of Origin (Washington) — Logs

_____	____%	34
_____	____%	35
_____	____%	36
_____	____%	37
_____	____%	38
_____	____%	39
From Outside Washington	____%	40
	100 %	

c. Age Group: — Logs

Old Growth (100 Years +)	____%	41
Young Growth	____%	42
	100 %	

d. Ownership Origin — Logs

State	____%	43
U. S. Forest Service*	____%	44
BLM	____%	45
Other Public (Indian, etc.)	____%	46
Forest Industry — Own Supply	____% (from timberlands owned by your company)	47
Forest Industry — Other Supply	____% (from other forest industry timberlands)	48
Farmer and Misc. Private	____%	49
	100 %	

*Name of National Forest _____ ____%: _____ ____%: 50 51

_____ ____%: _____ ____% 52 53

6. Quantity of 1982 Shipments

	Treated	Untreated	1,000 bd. ft. Scribner	cubic ft.	lineal ft.	pieces	
Posts	_____	_____	☐	☐	☐	☐	54 55
Poles	_____	_____	☐	☐	☐	☐	56 57
Piling	_____	_____	☐	☐	☐	☐	58 59

7. Disposition of Residue

Type of Residue, indicate disposition as a percent.

	Coarse (wood)	Bark
USED		
For Pulp (incl. export)	____% 60	____% 61
For Plant Fuel	____% 62	____% 63
Sold for Fuel	____% 64	____% 65
For Board	____% 66	____% 67
For Other Purposes	____% 68	____% 69
UNUSED		
Burned	____% 70	____% 71
Unburned	____% 72	____% 73
	100%	100%

8. If you desire to receive a copy of the Mill Survey report resulting from this study, please check here ( ).

9. The Department of Natural Resources plans to publish a Forest Products Directory listing the name and address of each plant. Also, with your permission, we would like to include the following selected information concerning your plant:

1. Species processed
2. Type of Product
3. Treatment
4. Does your mill presently export products abroad ( ) Yes ( ) No
   If your mill does not export, is your firm interested in exporting ( ) Yes ( ) No

( ) Permission granted to place the selected information in the Directory.

( ) Permission granted, but do not include the circled items on the above list.

Thank you for your help with this questionnaire. When you have answered the questions as fully as possible, please fold this form, enclose it in the postage paid envelope provided, and mail it.

LOG EXPORT QUESTIONNAIRE

WASHINGTON FOREST INDUSTRY SURVEY 1982

Log Export Questionnaire

(Information on individual firms will be held confidential)

FOR OFFICE USE ONLY

1. Firm Identity — 1 5

Firm Name _____ Prepared by _____ — 2

Address _____ Phone # _____
Street or P. O. Box

Date _____

_____ — 3
City State Zip Code

2. Port of Operation _____. — 4

IF MORE THAN ONE PORT OF OPERATION, USE ADDITIONAL FORMS WHICH WILL BE SUPPLIED PROMPTLY ON REQUEST (Phone Loren Gee in Olympia collect, 753-3841)

Data below this line should relate only to the Port listed above.

3. Years firm has used this Port for log export _____. — 5

4. Quantity exported from this Port during 1982 (See page 4 for general definitions).

a. Logs _____,000 Bd. Ft. — 6

Percent of logs from dead trees _____% — 7

Percent of logs utility grade _____% — 8

b. Other _____ _____ — 9
Specify

Specify log scale used if other than Scribner and conversion factor, if appropriate:

_____

_____

5. Export by Species During 1982

Species	Logs	
Douglas fir	_____%	10
Hemlock	_____%	11
True firs	_____%	12
Spruce	_____%	13
Ponderosa pine	_____%	14
Lodgepole pine	_____%	15
Western redcedar	_____%	16
Other conifers	_____%	17
Western hardwoods	_____%	18
Other hardwoods	_____%	19
	100 %	

6. Origin of Logs Exported During 1982

a. State or Province of Origin:

Washington	_____%	20
Oregon	_____%	21
Idaho	_____%	22
British Columbia	_____%	23
Other	_____%	24
	100 %	

b. County of Origin (Washington)

_____	_____%	25
_____	_____%	26
_____	_____%	27
_____	_____%	28
_____	_____%	29
_____	_____%	30
From Outside Washington	_____%	31
	100 %	

c. Age Group:

Old Growth (100 Years +)	_____%	32
Young Growth	_____%	33
	100 %	

d. Ownership Origin:

State		_____%	34
U. S. Forest Service*		_____%	35
BLM		_____%	36
Other Public (Indian, etc.)		_____%	37
Forest Industry	Own Supply	_____% (from timberlands owned by your company)	38
	Other Supply	_____% (from other forest industry timberlands)	39
Farmer and Misc. Private		_____%	40
		100 %	

*Name of National Forest _____ _____%: _____ _____% 41 42

_____ _____%: _____ _____% 43 44

7. Residue Disposition during 1982

Percent of volume debarked before shipment _____% 45

Indicate Disposition as a Percent

	Bark	
USED		
For Pulp (incl. export)	___%	46
For Plant Fuel	___%	47
Sold for Fuel	___%	48
For Board	___%	49
For Other Purposes	___%	50
UNUSED		
Burned	___%	51
Unburned	___%	52
	100%	

c. Age Group:

Old Growth (100 Years +)	_____%	32
Young Growth	_____%	33
	100 %	

d. Ownership Origin:

State		_____%	34
U. S. Forest Service*		_____%	35
BLM		_____%	36
Other Public (Indian, etc.)		_____%	37
Forest Industry	Own Supply	_____% (from timberlands owned by your company)	38
	Other Supply	_____% (from other forest industry timberlands)	39
Farmer and Misc. Private		_____%	40
		100 %	

*Name of National Forest _____ _____%: _____ _____% 41 42

_____ _____%: _____ _____% 43 44

7. Residue Disposition during 1982

Percent of volume debarked before shipment _____% 45

Indicate Disposition as a Percent

	Bark	
USED		
For Pulp (incl. export)	___%	46
For Plant Fuel	___%	47
Sold for Fuel	___%	48
For Board	___%	49
For Other Purposes	___%	50
UNUSED		
Burned	___%	51
Unburned	___%	52
	100%	

Page 3 DP 37505 (10-82) EX

COMPUTER PROGRAMS USED FOR THIS REPORT

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

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

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

There is a complete documentation package for this system that consists of the following:

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

WASHINGTON SUMMARY, 1982

Table 1 Number of mills in the timber industry, by industry, area and county

Economic Area and County	All industries	Industry: Lumber	Veneer and plywood	Pulp and board[1]	Shake and shingle	Export[2]	Pole, post and piling
Puget Sound							
Island	2	2	--	--	--	--	--
King	14	8	2	--	4	--	--
Kitsap	3	2	--	--	--	--	1
Pierce	43	10	3	2	4	23	1
San Juan	1	1	--	--	--	--	--
Skagit	27	5	--	--	21	1	--
Snohomish	74	21	1	2	14	34	2
Whatcom	15	6	1	2	4	1	1
Total	179	55	7	6	47	59	5
Olympic Peninsula							
Clallam	70	14	2	2	40	12	--
Grays Harbor	102	11	4	2	62	23	--
Jefferson	10	6	--	1	3	--	--
Lewis	28	11	2	--	15	--	--
Mason	9	5	1	--	2	--	1
Pacific	9	4	--	--	5	--	--
Thurston	11	2	3	--	1	4	1
Total	239	53	12	5	128	39	2
Lower Columbia							
Clark	14	7	1	2	2	1	1
Cowlitz	51	8	1	5	10	25	2
Klickitat	6	5	1	--	--	--	--
Skamania	4	2	2	--	--	--	--
Wahkiakum	4	1	--	--	3	--	--
Total	79	23	5	7	15	26	3
Central Washington							
Adams	--	--	--	--	--	--	--
Benton	--	--	--	--	--	--	--
Chelan	3	2	--	--	1	--	--
Douglas	--	--	--	--	--	--	--
Franklin	--	--	--	--	--	--	--
Grant	--	--	--	--	--	--	--
Kittitas	--	--	--	--	--	--	--
Lincoln	1	1	--	--	--	--	--
Okanogan	8	7	1	--	--	--	--
Yakima	5	4	1	--	--	--	--
Total	17	14	2	--	1	--	--
Inland Empire							
Asotin	2	2	--	--	--	--	--
Columbia	1	1	--	--	--	--	--
Ferry	2	2	--	--	--	--	--
Garfield	--	--	--	--	--	--	--
Pend Oreille	5	3	--	--	2	--	--
Spokane	4	3	--	1	--	--	--
Stevens	17	11	1	--	2	--	3
Walla Walla	4	2	--	2	--	--	--
Whitman	--	--	--	--	--	--	--
Total	35	24	1	3	4	--	3
Total, State	549	169	27	21	195	124	13

[1]Each pulping process at a multiplant location is considered an individual mill

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

Table 2 Primary wood consumption by type of material, area and industry

Economic area and industry	Roundwood: All roundwood	Roundwood: Sound logs	Roundwood: Utility logs	Other[1]	Residue[2]
	--Thousand board feet, Scribner log rule--				Bone dry tons
Puget Sound					
Lumber	600,875	564,380	36,495	500	--
Veneer & plywood	66,062	59,088	6,974	--	--
Pulp & board	199,204	1,040	198,164	--	1,538,887
Shake & shingle	24,905	20,742	4,163	3,315	--
Export	904,747	898,191	6,556	--	--
Pole, post & piling	6,872	6,872	--	--	--
Total	1,802,665	1,550,313	252,352	3,815	1,538,887
Olympic Peninsula					
Lumber	693,822	582,373	111,449	458	--
Veneer & plywood	66,724	65,622	1,102	--	--
Pulp & board	207,451	84,422	123,029	--	847,716
Shake & shingle	55,035	51,552	3,483	19,456	--
Export	607,687	604,775	2,912	535	--
Pole, post & piling[3]	--	--	--	--	--
Total	1,630,719	1,388,744	241,975	20,449	847,716
Lower Columbia					
Lumber	469,258	453,447	15,811	424	--
Veneer & plywood	107,111	99,393	7,718	--	--
Pulp & board[4]	105,228	11,188	94,040	--	3,162,763
Shake & shingle	15,863	15,037	826	602	--
Export	621,915	621,660	255	--	--
Pole, post & piling[3]	7,570	7,509	61	--	--
Total	1,326,945	1,208,234	118,711	1,026	3,162,763
Central Washington					
Lumber	204,955	199,463	5,492	5,254	--
Veneer & plywood[5]	91,981	90,366	1,615	--	--
Pulp & board	--	--	--	--	--
Shake & shingle[5]	270	270	--	237	--
Export	--	--	--	--	--
Pole, post & piling	--	--	--	--	--
Total	297,206	290,099	7,107	5,491	--
Inland Empire					
Lumber	159,375	156,800	2,575	--	--
Veneer & plywood[5]	--	--	--	--	--
Pulp & board[4]	--	--	--	--	--
Shake & shingle[5]	--	--	--	--	--
Export	--	--	--	--	--
Pole, post & piling	2,583	1,481	1,102	--	--
Total	161,958	158,281	3,677	--	--
Total, State					
Lumber	2,128,285	1,956,463	171,822	6,636	--
Veneer & plywood	331,878	314,469	17,409	--	--
Pulp & board	511,883	96,650	415,233	--	5,549,366
Shake & shingle	96,073	87,601	8,472	23,610	--
Export	2,134,349	2,124,626	9,723	535	--
Pole, post & piling	17,025	15,862	1,163	--	--
Total	5,219,493	4,595,671	623,822	30,781	5,549,366

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

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

[3] Olympic Peninsula and Lower Columbia combined to avoid disclosure

[4] Lower Columbia and Inland Empire combined to avoid disclosure

[5] Inland Empire and Central Washington combined to avoid disclosure

WASHINGTON SUMMARY, 1982

Table 3 Log flows to mills by state or province of log origin, area and industry (Thousand board feet, Scribner log rule)

Economic area and industry	Origin					
	All	Washington	Oregon	Idaho	British Columbia	Other
Puget Sound						
Lumber	600,874	600,314	176	--	385	--
Veneer & plywood	66,062	64,462	1,600	--	--	--
Pulp & board	199,204	176,469	--	2,383	10,176	10,176
Shake & shingle	24,905	22,518	--	--	2,287	100
Export	904,747	859,845	--	--	44,902	--
Pole, post & piling	6,872	6,733	66	--	--	73
Total	1,802,665	1,730,341	1,842	2,383	57,750	10,349
Olympic Peninsula						
Lumber	693,822	688,057	3,865	--	1,900	--
Veneer & Plywood	66,724	66,724	--	--	--	--
Pulp & board	207,451	204,946	--	--	2,505	--
Shake & shingle	55,035	54,875	8	--	152	--
Export	607,687	607,013	251	--	423	--
Pole, post & piling	4,327	4,327	--	--	--	--
Total	1,635,046	1,625,942	4,124	--	4,980	--
Lower Columbia						
Lumber	469,258	405,230	34,028	--	--	30,000
Veneer & Plywood	107,111	105,451	1,660	--	--	--
Pulp & board[1]	105,228	67,084	23,065	3,511	11,568	--
Shake & shingle	15,863	15,863	--	--	--	--
Export	621,915	577,240	44,675	--	--	--
Pole, post & piling	3,243	2,671	572	--	--	
Total	1,322,618	1,173,539	104,000	3,511	11,568	30,000
Central Washington						
Lumber	204,955	204,955	--	--	--	--
Veneer & plywood[2]	91,981	91,981	--	--	--	--
Pulp & board	--	--	--	--	--	--
Shake & shingle[2]	270	270	--	--	--	--
Export	--	--	--	--	--	--
Pole, post & piling	--	--	--	--	--	--
Total	297,206	297,206	--	--	--	--
Inland Empire						
Lumber	159,375	126,914	19,038	13,423	--	--
Veneer & Plywood[2]	--	--	--	--	--	--
Pulp & board[1]	--	--	--	--	--	--
Shake & shingle[2]	--	--	--	--	--	--
Export	--	--	--	--	--	--
Pole, post & piling	2,583	2,583	--	--	--	--
Total	161,958	129,497	19,038	13,423	--	--
Total, State						
Lumber	2,128,285	2,025,470	57,107	13,423	2,285	30,000
Veneer & Plywood	331,878	328,618	3,260	--	--	--
Pulp & board	511,883	448,499	23,065	5,894	24,249	10,176
Shake & shingle	96,073	93,526	8	--	2,439	100
Export	2,134,349	2,044,098	44,926	--	45,325	--
Pole, post & piling	17,025	16,314	638	--	--	73
Total	5,219,493	4,956,525	129,004	19,317	74,298	40,349

[1]Inland Empire combined with Lower Columbia to avoid disclosure

[2]Inland Empire combined with Central Washington to avoid disclosure

WASHINGTON SUMMARY, 1982

Table 4 Log flows to mills by county and out-of-state origins, and by area and county of use (Thousand board feet, Scribner log rule)

Economic area and county of use	Total	Economic area and county of origin: Puget Sound						
		Island and San Juan[1]	King	Kitsap	Pierce	Skagit	Snohomish	Whatcom
Puget Sound								
Island/San Juan[1]	4,993	4,948	--	--	--	--	--	45
King	137,838	--	90,089	--	15,811	570	13,167	--
Kitsap/Pierce[1]	722,480	--	140,251	24,587	184,225	2,232	4,856	1,737
Skagit	41,456	40	187	--	--	18,318	6,424	11,022
Snohomish	828,844	667	55,403	282	10,255	202,928	289,270	49,110
Whatcom	67,054	--	6,318	--	5,679	31,869	6,120	15,321
Total	1,802,665	5,655	292,248	24,869	215,970	255,917	319,837	77,235
Olympic Peninsula								
Clallam	230,150	75	--	--	--	2,223	222	--
Grays Harbor/Jefferson[1]	825,265	--	2,168	400	904	12,817	299	--
Lewis	195,446	--	2,000	--	4,045	--	--	--
Mason	220,676	--	--	--	--	--	--	--
Pacific	55,941	--	--	--	--	--	--	--
Thurston	107,568		415	--	59,897	580	--	--
Total	1,635,046	75	4,583	400	64,846	15,620	521	--
Lower Columbia								
Clark	119,339	--	--	--	16	--	--	--
Cowlitz	1,051,528	--	630	560	560	4,011	--	--
Klickitat/Skamania[1]	149,620	--	--	--	--	--	--	--
Wahkiakum	1,538	--	--	--	--	--	--	--
Total	1,322,025	--	630	560	576	4,011	--	--
Central Washington								
Chelan/Lincoln/ Okanogan/Yakima	261,694	--	890	--	--	--	--	--
Total	261,694	--	890	--	--	--	--	--
Inland Empire								
Asotin/ Walla Walla[1]	45,745	--	--	--	--	--	--	--
Columbia/Ferry[1]	34,222	--	--	--	--	--	--	--
Pend Oreille	7,119	--	--	--	--	--	--	--
Spokane	23,763	--	--	--	--	--	--	--
Stevens	87,214	--	--	--	--	--	--	--
Total	198,063	--	--	--	--	--	--	--
Total, State	5,219,493	5,730	298,351	25,829	281,392	275,548	320,358	77,235

[1]Combined to avoid disclosure

Table 4 (Continued) Log flows to mills by county and out-of-state origins, and by area and county of use (Thousand board feet, Scribner log rule)

Economic area and county of origin											
Olympic Peninsula								Lower Columbia			
Clallam	Grays Harbor	Jefferson	Lewis	Mason	Pacific	Thurston	Clark	Cowlitz	Klickitat	Skamania	Wakiakum
--	--	--	--	--	--	--	--	--	--	--	--
2,850	--	5,130	7,442	1,639	--	570	--		--	--	--
1,338	9,423	21,427	167,257	58,283	372	46,744	3,060	3,974	--	30	--
--	--	--	--	--	--	--	--	--	--	--	--
15,389	7,188	11,652	72,810	6,920	4,176	12,807	--	--	--	5,123	--
1,747	--	--	--	--	--	--	--	--	--	--	--
21,324	16,611	38,209	247,509	66,842	4,548	60,121	3,060	3,974	--	5,153	--
171,373	4,618	48,710	--	--	--	--	--	--	--	--	--
13,863	521,103	131,070	5,563	19,803	92,271	19,266	--	19	--	8	4,106
760	4,199	760	109,973	--	3,900	18,544	2,907	11,182	--	29,411	2,000
1,120	7,243	1,680	1,120	207,737	38,504	1,766	--	--	--	--	--
--	10,448	--	2,854	--	--	--	--	--	--	--	4,135
887	6,404	720	12,725	8,141	--	14,865	--	1,797	--	--	--
188,003	554,015	182,940	132,235	235,681	134,675	54,441	2,907	12,998	--	29,419	10,241
--	--	--	304	--	4,760	16	6,621	35,289	--	32,473	7,552
2,674	2,689	4,011	114,046	--	3,484	5,563	12,507	660,825	547	39,524	85,665
--	--	--	--	--	--	--	--	--	61,393	63,976	--
--	234	--	--	--	90	--	--	--	--	--	1,214
2,674	2,923	4,011	114,350	--	8,334	5,579	19,128	696,114	61,940	135,973	94,431
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	22,153	--	--
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--
212,001	573,549	225,160	494,094	302,523	147,557	120,141	25,095	713,086	84,093	170,545	104,672

WASHINGTON SUMMARY, 1982

Table 4 (Continued) Log flows to mills by county and out-of-state origins, and by area and county of use (Thousand board feet, Scribner log rule)

Economic area and county of use	Economic area and: Central Washington					
	Chelan	Douglas	Kittitas	Lincoln	Okanogan	Yakima
Puget Sound						
Island/San Juan[1]	--	--	--	--	--	--
King	--	--	--	--	570	--
Kitsap/Pierce[1]	1,067	--	27,401	--	--	--
Skagit	--	--	--	--	900	--
Snohomish	26,972	--	14,349	--	--	--
Whatcom	--	--	--	--	--	--
Total	28,039	--	41,750	--	1,470	--
Olympic Peninsula						
Clallam	--	--	--	--	--	--
Grays Harbor/Jefferson[1]	--	--	1,204	--	--	--
Lewis	--	--	--	--	--	--
Mason	--	--	--	--	--	--
Pacific	--	--	--	--	--	--
Thurston	1,137	--	--	--	--	--
Total	1,137	--	1,204	--	--	--
Lower Columbia						
Clark	--	--	--	--	--	--
Cowlitz	--	--	--	--	--	--
Klickitat/Skamania[1]	--	--	--	--	--	22,203
Wahkiakum	--	--	--	--	--	--
Total	--	--	--	--	--	22,203
Central Washington						
Chelan/Lincoln/ Okanogan/Yakima[1]	34,925	--	29,593	--	88,213	85,579
Total	34,925	--	29,593	--	88,213	85,579
Inland Empire						
Asotin/Walla Walla[1]	--	--	--	--	5,550	--
Columbia/Ferry[1]	--	--	--	--	--	--
Pend Oreille	--	--	--	--	--	--
Spokane	--	--	--	--	--	--
Stevens	--	--	--	28	--	--
Total	--	--	--	28	5,550	--
Total, State	64,101	--	72,547	28	95,233	107,782

1Combined to avoid disclosure

Table 4 (Continued) Log flows to mills by county and out-of-state origins, and by area and county of use (Thousand board feet, Scribner log rule)

county of origin								
Inland Empire								Out-of-State origin
Asotin	Columbia	Ferry	Garfield	Pend Oreille	Spokane	Stevens	Walla Walla	
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	24,216
--	--	--	--	--	--	--	--	4,565
--	--	--	--	--	--	--	--	43,543
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	72,324
--	--	--	--	--	--	--	--	2,929
--	--	--	--	--	--	--	--	401
--	--	--	--	--	--	--	--	5,765
--	--	--	--	--	--	--	--	10
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	9,105
--	--	--	--	--	--	--	--	32,308
--	--	--	--	--	--	--	--	114,232
--	--	--	--	--	--	--	--	2,048
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	148,588
--	--	--	--	--	--	--	--	--
--	--	341	--	--	--	--	--	--
7,059	2,846	--	2,943	--	--	--	2,869	30,028
--	222	25,400	--	--	--	3,050	--	--
--	--	--	--	4,745	1,040	1,214	--	120
--	--	33,051	--	55	20,857	47	--	2,804
--	--	--	--	8,386	1,413	44,336	--	--
7,059	3,068	58,451	2,943	13,186	23,310	48,647	2,869	32,952
7,059	3,068	58,792	2,943	13,186	23,310	48,647	2,869	262,969

WASHINGTON SUMMARY, 1982

Table 5 Log flows to mills from National Forests, by area and industry (Thousand board feet, Scribner log rule)

Economic Area[1]	All National Forest	Mount Baker-Snoqualmie	Colville	Gifford Pinchot	Okanogan	Olympic	Wenatchee	Umatilla	Out-of-State National Forest
Puget Sound	252,085	196,898	--	2,558	1,363	13,753	5,271	--	32,242
Olympic Peninsula	259,018	362	--	69,498	--	189,158	--	--	--
Lower Columbia	147,256	--	--	141,809	--	6	--	--	5,441
Central Washington	138,583	5,211	223	--	31,357	--	101,792	--	--
Inland Empire	39,274	--	21,954	--	10,466	--	--	6,854	--
Total, State	836,216	202,471	22,177	213,865	43,186	202,917	107,063	6,854	37,683
Industry									
Lumber	571,469	130,357	20,271	107,530	27,339	183,483	91,494	6,854	4,141
Veneer & Plywood	137,840	29,900	1,420	60,086	15,847	14,348	14,938	--	1,301
Pulp & board	91,682	33,440	444	45,688	--	835	372	--	10,903
Shake & shingle	13,324	8,774	--	243	--	4,048	259	--	21,338
Export	21,338	--	--	--	--	--	--	--	--
Pole, post & piling	563	--	42	318	--	203	--	--	--
Total, All Industries	836,216	202,471	22,177	213,865	43,186	202,917	107,063	6,854	37,683

[1]Note: Combinations made in Table 7 are also used here to avoid disclosure

[2]No log receipts into Washington reported from the Kaniksu National Forest in 1982.