



"STEWARDSHIP IN FORESTRY"

# Timber Sale Appraisal Cost Summary Lost Alder Sale 341-02-46

District: Tillamook

Date: 4/10/02

	Conifer	Hardwood	Total
<b>Gross Timber Sale Value</b>	\$13,079.64	\$113,134.65	\$126,214.29
		<b>Project Work</b>	(\$55,688.00)
		<b>Advertised Value</b>	\$70,526.29



"STEWARDSHIP IN FORESTRY"

# Timber Sale Appraisal Timber Description Lost Alder Sale 341-02-46

**District:** Tillamook

**Location:** Portions of Sections 24, 25 and 26, T3N, R9W, W.M. Tillamook County, Oregon

**Date:** 4/10/02

**Stand Stocking:** 100%

Species	Avg. DBH	Amortized%	Recovery%
Douglas - Fir	14	0	95
Alder (Red)	13	0	95

Volume by Grade	Douglas - Fir	Alder (Red)	Total
2S	28	0	28
3S	36	0	36
4S	5	0	5
Camprun	0	719	719
<b>Total</b>	69	719	788

**Comments:** Pond Values Used: 1st Quarter 2002 + Local Pond Values

See additional costs page



# Timber Sale Appraisal

## Logging Conditions

### Lost Alder

### Sale 341-02-46

"STEWARDSHIP IN FORESTRY"

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**Combination#:** 1      Douglas - Fir      100.00%  
                         Alder (Red)      88.73%

**Yarding Distance:** Long (1,500 ft)      **Downhill Yarding** No  
**Logging System:** Cable: Medium Tower >40 - <70      **Process:** Stroke Delimber  
**Tree Size:** Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF  
**Loads/Day:** 6      **Bd. Ft./Load:** 3,000  
**Cost/MBF:** \$182.37

**Machines:**  
    Log Loader (A)  
    Stroke Delimber (A)  
    Tower Yarder (Medium)

**Combination#:** 2      Alder (Red)      11.27%

**Yarding Distance:** Short (400 ft)      **Downhill Yarding** No  
**Logging System:** Cable: Medium Tower >40 - <70      **Process:** Stroke Delimber  
**Tree Size:** Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF  
**Loads/Day:** 9      **Bd. Ft./Load:** 3,000  
**Cost/MBF:** \$121.58

**Machines:**  
    Log Loader (A)  
    Stroke Delimber (A)  
    Tower Yarder (Medium)



"STEWARDSHIP IN FORESTRY"

# Timber Sale Appraisal

## Logging Costs

### Lost Alder

### Sale 341-02-46

Date: 4/10/02

Operating Seasons: 0.8

Profit & Risk: 15%

Project Costs: \$55,688

Other Costs (P/R): \$17,848

Slash Disposal: \$0

Other Costs: \$540

Miles of Road			
Dirt	Rock (Contractor)	Rock (State)	Paved
0.0	0.0	0.0	0.0

Road Maintenance: \$3.70

#### Hauling Costs

Species	\$/MBF	Trips/Day	MBF/Load
Douglas - Fir	\$0.00	2.0	3.5
Alder (Red)	\$0.00	4.0	3.0

#### Local Pond Values

Date	Species	Grade	Value
4/10/02	Alder (Red)	Camprun	\$440.00



"STEWARDSHIP IN FORESTRY"

# Timber Sale Appraisal Logging Costs Breakdown Lost Alder Sale 341-02-46

Costs	Douglas - Fir	Alder (Red)
<b>Logging</b>	182.37	175.52
<b>Road Maintenance</b>	3.89	3.89
<b>Fire Protection</b>	2.75	2.75
<b>Hauling</b>	69.16	40.37
<b>Other (P/R appl.)</b>	22.65	22.65
<b>Profit &amp; Risk</b>	42.12	36.78
<b>Slash Disposal</b>	0.00	0.00
<b>Scaling</b>	0.00	0.00
<b>Other</b>	0.69	0.69
<b>Total</b>	323.63	282.65

<b>Amortization</b>	0.00	0.00
<b>Pond Value</b>	513.19	440.00
<b>Stumpage</b>	189.56	157.35
<b>Amortized</b>	0.00	0.00



"STEWARDSHIP IN FORESTRY"

# Timber Sale Appraisal Summary Lost Alder Sale 341-02-46

**Amortized**

	Douglas - Fir	Alder (Red)
<b>MBF</b>	0.00	0.00
<b>Value</b>	0.00	0.00
<b>Total</b>	0.00	0.00

**Unamortized**

	Douglas - Fir	Alder (Red)
<b>MBF</b>	69.00	719.00
<b>Value</b>	189.56	157.35
<b>Total</b>	13,079.64	113,134.65

### Gross Timber Sale Value

**Cash \$126,214.29**

Prepared by: David Wells

Date: 4/10/02

District: Tillamook

Phone: (503) 842-2545

## Additional Costs

### Lost Alder



Cable Yarding Volume:	788 MBF
Total Sale Volume:	<b>788 MBF</b>

STEWARDSHIP IN FORESTRY

ADDITIONAL COSTS - PROFIT & RISK TO BE ADDED					
Yarding and Loading	Cost / MBF		Volume(MBF)		
Brand and Paint	\$ 1.50	x	788	=	\$1,182
Additional Alder Logging Cost	\$ 15.00	x	719	=	\$10,785
					<b>\$11,967</b>
		Cost / Each	Number		
Areas 2 and 3 yarding across 400 feet without trees, estimate of 15% of the yarding distance: 15% x \$182.37 logging cost x 215 MBF = \$5,881					
					<b>\$5,881</b>
<b>OTHER COSTS TOTAL</b>					<b>\$17,848</b>
ADDITIONAL COSTS - PROFIT & RISK INCLUDED					
Non-Project Roads					
Road	3	Stations	x	\$ 180	= \$540
<b>Other Cost Total</b>					<b>\$540</b>

ROAD MAINTENANCE					
	\$/Mile	Miles		\$/MBF	
*Grading:	\$500	2.3		\$2.98	
	\$/Yd	MMBF	Miles	CuYd	\$/MBF
**Maintenance rock	\$6.28	0.79	2.3	50	\$0.72
<b>TOTAL ROAD MAINTENANCE COST / MBF:</b>					<b>\$3.70</b>
*Assumes grading the road twice during the contract					
**Assumes 50 cy for normal maintenance per MMBF per mile					

PROJECT SUMMARY SHEET

Sale: LOST ALDER Date: Jan. 25 2002

Construction -

Point	A - B	stations =	3+00	\$2,654.90
Point		stations =		\$0.00
Point		stations =		\$0.00
Point		stations =		\$0.00
Point		stations =		\$0.00
SUB TOTAL				\$2,654.90

Improvement -

Point	A - B	stations =	52+00	\$50,443.16
Point		stations =		\$0.00
Point		stations =		\$0.00
Point		stations =		\$0.00
Point		stations =		\$0.00
SUB TOTAL				\$50,443.16

Special Projects -

<u>Stockpile 185 Cubic Yards Of Pit Run Rock @ The Rock Pit</u>	\$737.23
	\$0.00
	\$0.00
SUB TOTAL	\$737.23

Move - In -

<u>Grader, Vibratory &amp; Sheepsfoot Rollers, D-8 Cat, Dump Trucks,</u>	
<u>Excavator</u>	\$1,852.22
SUB TOTAL	\$1,852.22

GRAND TOTAL \$55,687.51



SUMMARY OF CONSTRUCTION COST

Sale: LOST ALDER Road: A to B

Construction - 3+00 stations Improvement - 52+00 stations  
0.06 miles 0.98 miles

CLEARING AND GRUBBING -

Side cast	0.00 acres @	\$540.00 per acre =	\$0.00	
Scattering	3.40 acres @	\$815.00 per acre =	\$2,771.00	
Endhaul	0.00 acres @	\$1,500.00 per acre =	\$0.00	
TOTAL CLEARING AND GRUBBING				\$2,771.00

EXCAVATION -

	20.95 sta. @	\$65.00 per sta. =	\$1,361.75	
Drifted Fill	2411 cys. @	\$2.09 per c.y. =	\$5,038.99	
End Haul Fill	4450 cys. @	\$3.58 per c.y. =	\$15,931.00	
TOTAL EXCAVATION				\$22,331.74

CULVERT MATERIALS -

Culverts				
82 LF of 18"	<u>\$1,209.50</u>	0 LF of 24"	<u>\$0.00</u>	
	\$1,209.50		\$0.00	
Half Rounds				
0 LF of 21"	<u>\$0.00</u>	0 LF of 30"	<u>\$0.00</u>	
	\$0.00		\$0.00	
Culvert Stakes				
3 marker stakes @		\$6.00 per stake =	<u>\$18.00</u>	
TOTAL CULVERT MATERIALS				\$1,227.50

SURFACING-

From Stockpile-				
4" Depth	615 cy. of	Crshd Rock @	\$6.28 per c.y. =	\$3,862.20
CrvWiden	47 cy. of	Crshd Rock @	\$6.28 per c.y. =	\$295.16
4Trnouts	28 cy. of	Crshd Rock @	\$6.28 per c.y. =	<u>\$175.84</u>
TOTAL SURFACING				\$4,333.20
12" Depth	1,812 cy. of	Pit Run @	\$10.26 per c.y. =	\$18,591.12
CrvWiden	65 cy. of	Pit Run @	\$10.26 per c.y. =	\$666.90
4Trnouts	88 cy. of	Pit Run @	\$10.26 per c.y. =	\$902.88
SmTurnrnds	22 cy. of	Pit Run @	\$10.26 per c.y. =	<u>\$225.72</u>
TOTAL SURFACING				\$20,386.62

SPECIAL PROJECTS

Grade Road: \$17.40/sta. X 55.00 Stations	\$957.00	
Roll Subgrade: \$11/sta. X \$55.00 Stations	\$605.00	
Grass Seed & Fertilize Areas of Distrubed Soil: 1.6 Acres @ \$180/ac.	\$288.00	
Remove Culvert From State Land	\$198.00	
TOTAL SPECIAL PROJECTS		\$2,048.00

GRAND TOTAL \$53,098.06

**PIT RUN PIT DEVELOPMENT AND STRIPPING COST SUMMARY**  
**SALE: LOST ALDER**

Pit:	<u>Sibley Pit Run</u>	Location:	<u>NW,NW,Sec22, T3N, R8W</u>
Rock:	<u>PIT RUN</u>	Road:	<u>1987 c.y.</u>
Swell:	<u>1.30</u>	Stockpile Size:	<u>185 c.y.</u>
Shrinkage:	<u>1.16</u>	Total Truck Loads:	<u>2172 c.y.</u>
Drill Pct.:	<u>60%</u>	In Place Total:	<u>1671 c.y.</u>

Pit Development: 6 Hr.s D-8						<b>\$780.00</b>
Drill & Shoot:	<u>\$2.10</u> /cu.yd.	x	<u>1002</u> cu.yds.	=		<u>\$2,105.17</u>
Strip Rock:	<u>\$1.50</u> /cu.yd.	x	<u>668</u> cu.yds.	=		<u>\$1,002.46</u>
Push Rock:	<u>\$0.60</u> /cu.yd.	x	<u>2172</u> cu.yds.	=		<u>\$1,303.20</u>
Load Dump Truck:	<u>\$0.70</u> /cu.yd.	x	<u>2172</u> cu.yds.	=		<u>\$1,520.40</u>
			<b>Sub Total</b>			<b>\$6,711.23</b>

<b>Move-In</b>						
Drill & Compressor						\$178.34
Grid Roller						\$178.34
Water Truck						\$106.56
3 cy Loader						\$286.38
						<u>\$749.62</u>

Base Cost: \$3.44 Per Cu.Yd.

Road Segment	Haul Cost /cu.yd.	Proc Cost /cu.yd.	Base Cst. /cu.yd.	Cost /cu.yd.	Number Cu. Yds	ROCK COST
A - B	\$5.92	\$0.90	\$3.44	\$10.26	1987	\$20,376.71
	\$0.00	\$0.00	\$0.00	\$0.00	0	\$0.00
	\$0.00	\$0.00	\$0.00	\$0.00	0	\$0.00
					<b>Total C.Y. 1987</b>	<b>Sub Total \$20,376.71</b>

Stockpile	Haul Cost /cu.yd.	Proc Cost /cu.yd.	Base Cst. /cu.yd.	Cost /cu.yd.	Number Cu.Yds.	ROCK COST
	\$0.00	\$0.55	\$3.44	\$3.99	185	\$737.23
					<b>Total C.Y. 185</b>	<b>Sub Total \$737.23</b>

**TOTAL ROCKING COSTS = \$21,113.94**



"STEWARDSHIP IN FORESTRY"

**OREGON DEPARTMENT OF FORESTRY  
CRUISE REPORT**

**Lost Alder**

1. **Type of Sale:** Clearcut/Cash
2. **Legal Description:** Portions of Sections 24, 25, and 26, T3N, R9W, W.M., Tillamook County, Oregon.
3. **Sale Acreage:**

ACRES			
Area	Sale	Total	Net
1	61	77	59
2	10	13	9
3	25	28	24
4	19	19	18
5	2	2	2
<b>Total</b>	<b>117</b>	<b>139</b>	<b>112</b>

**Sale Acres:** Area within the Timber Sale Boundary signs.

**Total Acres:** Sale acres; plus green tree retention acres outside the sale boundary; less roads and riparian areas classified as Special Stewardship in LMCS inside the sale boundary. This is used for accomplishment reporting - clearcut (regeneration) harvest.

**Net Acres :** Sale acres; less green tree retention, roads, and streams inside the sale boundary. This is used for calculating the advertised volume.

4. **Cruising Procedures:**
  - A. **Cruise Method:** In Areas 1, 2, 3, and 4 plots were established on a grid of 200' x 600' and a total of 20, 3, 9 and 10 full point plots were taken respectively. In Area 5, 6 plots were established on a transect with plots spaced 66' apart. The right of way was 100% cruised. Red alder with a volume of at least 30 board feet were recorded on all plots. A form factor was recorded for every grade tree and form point was 4 feet for red alder and 16 feet for Douglas-fir. All tree heights were measured to the nearest foot and diameters recorded to the nearest inch. The composite standard error and coefficient of variation for Areas 1, 2, 3, and 4 was 7.7% and 49.7% respectively. The SE and CV for Area 5 was 11% and 77.7% respectively.
  - B. **Plot size:** Areas 1, 2, 3, and 4 were cruised with a basal area factor (BAF) of 20. Area 5 was cruised with a BAF of 40. The point of tree observation was at 4.5 feet.

C. **Grading System**: Trees were graded according to Columbia River Log Scaling and Grading Rules.

5. **Computation Procedure**: The volume was computed using the Atterbury SUPER A.C.E. 98 program.
6. **Hidden Defect and Breakage**: A 10% deduction was applied to the alder volume and a 5% deduction to the conifer volume to account for the hidden defect and breakage.
7. **Timber Description**: The sale areas were burned in the 1933 fire and Areas 1, 2, and 3 were burned in the 1945 fire. The sale areas naturally regenerated, except for approximately 44 acres in the southwest corner of Area 1, which was planted in 1964-65 as part of the rehabilitation program. The two acres in Area 5 were also part of this rehabilitation and are currently severely overstocked with Douglas-fir. The sale areas are mostly comprised of 40 to 60 year old alder and a scattering of Douglas-fir, hemlock, spruce, cedar and big leaf maple. The understory consists of salmonberry, sword fern and vine maple. The Douglas-fir is moderately to severely infected with Swiss needle cast, with approximately 2.5 years or less of needle retention.
8. **Cruiser Names/Dates**: Dan Clough, Richard Wilfong, Colleen Holmen, Joe Travers and David Wells. January and February 1999, September 2001.
9. **Revenue Distribution**:  
FDF: 100%  
Tax Code: 56-1  
Deed Numbers: 35  
Rehabilitation obligation: 11%
10. **Attachments**:  
Volume Summary  
Stand Table (Composite of Areas 1, 2, 3, and 4)  
Logging Plan

## Lost Alder Volume Summary

<b>AREA I</b>	Remove Alder	59 Acres		
	Sale Gross Volume MBF	Vol/Acre MBF	D & B Percent	Adjusted Volume MBF
Alder	466	8	10%	419
Total	466	8		419

<b>AREA II</b>	Remove Alder	9 Acres		
	Sale Gross Volume MBF	Vol/Acre MBF	D & B Percent	Adjusted Volume MBF
Alder	53	6	10%	48
Total	53	6		48

<b>AREA III</b>	Remove Alder	24 Acres		
	Sale Gross Volume MBF	Vol/Acre MBF	D & B Percent	Adjusted Volume MBF
Alder	185	8	10%	167
Total	185	8		167

<b>AREA IV</b>	Remove Alder	18 Acres		
	Sale Gross Volume MBF	Vol/Acre MBF	D & B Percent	Adjusted Volume MBF
Alder	90	5	10%	81
Total	90	5		81

<b>AREA V</b>	Remove Conifer and Alder	2 Acres		
	Sale Gross Volume MBF	Vol/Acre MBF	D & B Percent	Adjusted Volume MBF
Douglas-fir	70	35	5%	67
Alder	2	1	10%	2
Total	72	36		69

<b>AREA Right of Way</b>	Remove Alder and Conifer			
	Sale Gross Volume MBF		D & B Percent	Adjusted Volume MBF
Alder	2		10%	2
Douglas-fir	2		5%	2
Total	4			4

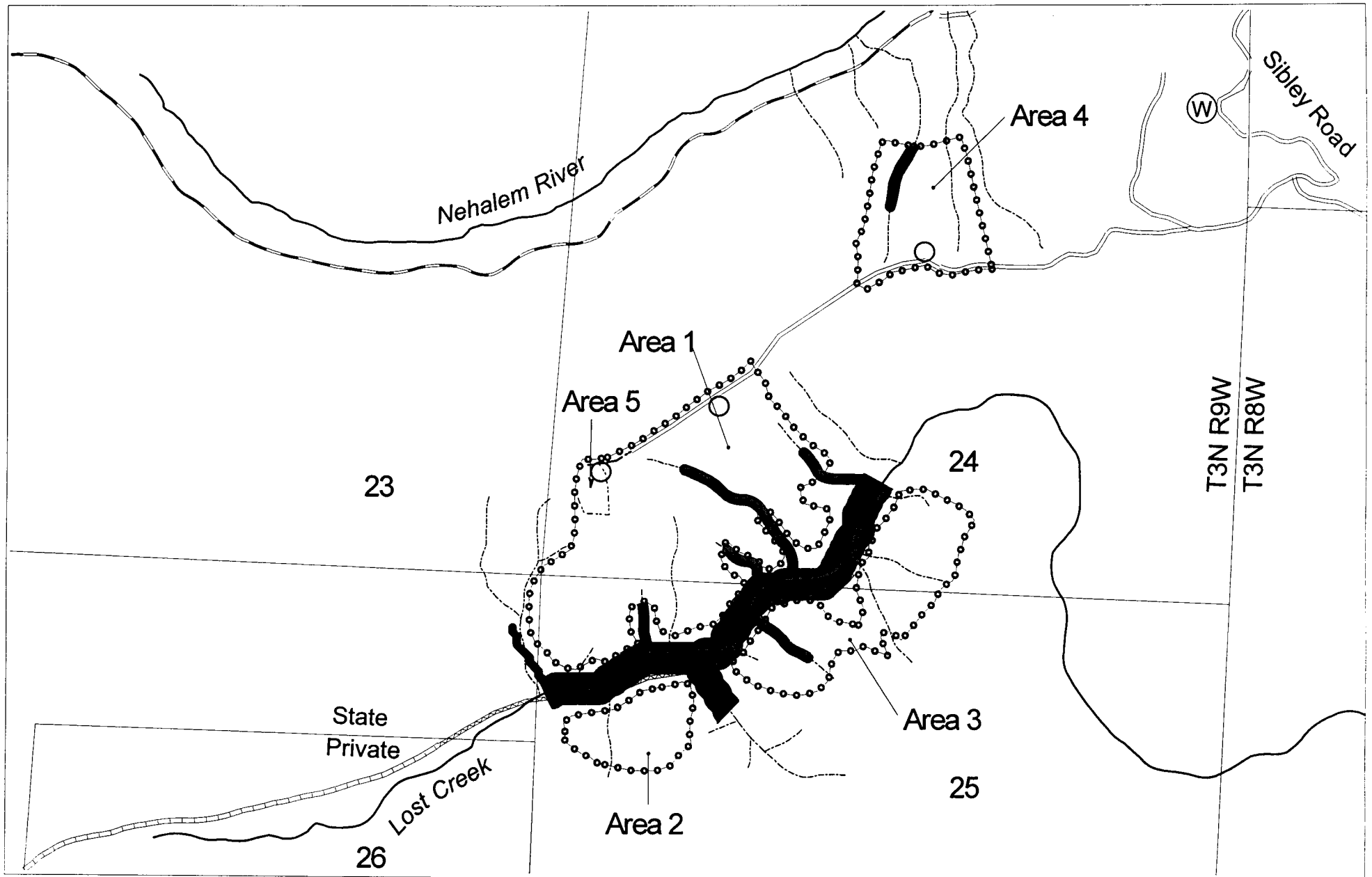
**Total Sale Area**                      112

Species	Net Vol. MBF
Alder	719
Douglas-fir	69
Sale Total	788

### Stand Table Summary

*LOST ALDER - AREAS 1, 2, 3, AND 4*

S Spc T	DBH	Sample Trees	Tot		Trees/ Acres	BA/ Acres	Logs Acres	Average Log		Tons/ Acres	Net Cu.Ft Acres	Net Bd.Ft Acres	Totals		
			FF 16	Av Ht				Net Cu.Ft	Net Bd.Ft				Tons	Cunits	MBF
RA	9	1	87	21	1.078	.48	1.08	4.4	20.0		5	22		0	0
RA	10	26	87	36	22.700	12.38	22.70	6.8	29.2		153	664		2	1
RA	11	25	87	35	18.074	11.90	18.07	9.0	34.0		163	614		2	1
RA	12	47	87	41	28.504	22.38	28.50	12.2	42.3		347	1,207		3	1
RA	13	23	86	52	11.844	10.95	11.84	17.9	56.5		212	670		2	1
RA	14	54	87	57	24.037	25.71	24.93	21.3	67.3		531	1,679		5	2
RA	15	13	87	61	5.062	6.19	5.85	23.8	82.0		139	480		1	0
RA	16	26	87	58	8.891	12.38	9.57	28.5	82.8		273	793		3	1
RA	17	4	88	57	1.208	1.90	1.21	34.5	82.5		42	100		0	0
RA	18	16	86	50	4.319	7.62	4.61	32.1	80.6		148	372		1	0
RA	19	2	88	72	.494	.95	.75	35.2	129.7		26	97		0	0
RA	20	6	88	52	1.310	2.86	1.53	38.4	100.0		59	153		1	0
RA	21	3	87	49	.588	1.43	.59	50.3	83.5		30	49		0	0
RA	22	1	87	57	.180	.48	.18	59.8	180.0		11	32		0	0
RA	23	1	87	47	.165	.48	.17	57.0	50.0		9	8		0	0
RA	24	1	87	46	.157	.48	.16	61.5	70.0		10	11		0	0
RA	26	1	88	59	.129	.48	.26	45.5	190.0		12	49		0	0
RA	30	1	88	52	.097	.48	.10	107.4	240.0		10	23		0	0
RA	Totals	251	87	46	128.836	119.52	132.09	16.5	53.1		2,180	7,021		22	7
D	9	1	86	64	1.078	.48	1.08	8.5	40.0	.30	9	43		0	0
D	10	1	85	63	.873	.48	.87	10.7	40.0	.30	9	35		0	0
D	11	2	86	32	1.405	.95	1.41	8.6	30.0	.39	12	42		0	0
D	12	1	80	59	.606	.48	.61	18.0	40.0	.34	11	24		0	0
D	13	2	86	41	1.033	.95	1.03	14.3	30.0	.46	15	31		0	0
D	14	1	86	37	.445	.48	.45	15.9	30.0	.22	7	13		0	0
D	16	2	86	38	.682	.95	.68	21.1	30.0	.44	14	20		0	0
D	18	2	83	76	.539	.95	1.08	22.7	70.0	.73	24	75		1	0
D	19	1	85	36	.242	.48	.24	29.5	30.0	.21	7	7		0	0
D	20	2	85	90	.445	.95	.89	35.2	122.4	.92	31	109		1	0
D	21	1	85	35	.198	.48	.20	35.9	30.0	.21	7	6		0	0
D	22	4	82	84	.735	1.90	1.66	33.2	121.6	1.61	55	201		2	1
D	24	3	82	69	.559	1.74	1.07	39.4	111.2	1.22	42	119		1	0
D	29	1	86	34	.104	.48	.10	63.7	30.0	.19	7	3		0	0
D	30	1	86	34	.097	.48	.10	68.4	30.0	.19	7	3		0	0
D	32	1	86	34	.085	.48	.09	78.2	30.0	.19	7	3		0	0
D	33	1	85	34	.080	.48	.08	83.4	30.0	.19	7	2		0	0
D	34	1	86	36	.076	.48	.08	94.4	40.0	.20	7	3		0	0
D	42	1	85	33	.049	.48	.05	137.4	30.0	.19	7	1		0	0
D	Totals	29	85	54	9.333	14.12	11.75	24.3	63.2	8.50	285	743		9	3
BM	14	1	83	47	.445	.48	.45	22.0	60.0		10	27		0	0
BM	22	1	84	37	.174	.48	.17	42.0	60.0		7	10		0	0
BM	Totals	2	83	44	.619	.95	.62	27.6	60.0		17	37		0	0
H	14	1	86	39	.445	.48	.45	17.0	30.0	.23	8	13		0	0
H	16	1	86	42	.341	.48	.34	25.0	50.0	.26	9	17		0	0
H	Totals	2	86	40	.786	.95	.79	20.5	38.7	.49	16	30		0	0
C	27	1	86	34	.120	.48	.12	54.0	50.0		6	6		0	0
C	Totals	1	86	34	.120	.48	.12	54.0	50.0		6	6		0	0
Totals		285	87	46	139.694	136.02	145.37	17.2	53.9	8.99	2,505	7,837		9	25



- |         |                                      |       |                 |
|---------|--------------------------------------|-------|-----------------|
| -----   | Area boundary                        | ———   | Type F stream   |
| ●-●-●   | Timber sale boundary                 | ----- | Type N stream   |
| - - - - | Unsurfaced road                      | ○     | Cable Landing   |
| ====    | Surfaced road                        | ⊙     | Waste area      |
| ———     | County road                          | ■     | Riparian buffer |
| -----   | Abandoned road                       |       |                 |
| -----   | Non-Project Road                     |       |                 |
| -----   | Private road<br>(access not assured) |       |                 |

**LOST ALDER  
LOGGING PLAN**  
 SECTION 24, 25, and 26, T3N, R9W, W.M.  
 TILLAMOOK COUNTY, OREGON

1000      0      1000 Feet  
 1:12000



Area	Sale	Net
1	61	59
2	10	9
3	25	24
4	19	18
5	2	2
<b>Total</b>	<b>117</b>	<b>112</b>

OREGON DEPARTMENT OF FORESTRY  
WRITTEN PLAN

**SALE NAME:** Lost Alder

**PROTECTED RESOURCES:** Lost Creek, a large Type F stream

**LOCATION:** Portions of Sections 24, 25 and 26, T3N, R9W, W.M., Tillamook County, Oregon.

**ACTIVITIES:** Cable and ground yarding and road improvement and construction.

**Riparian Management Area (RMA):** The area within 100 feet horizontal distance from the high water mark on each side of the protected Type F stream. **High Risk Sites:** Active landslides and slumps; slopes steeper than 80%; and headwalls or draws steeper than 70%.

**PROTECTION MEASURES:**

**YARDING and FELLING:**

- All trees in the RMA outside of yarding corridors are reserved from cutting.
- Adjacent trees will be felled away from or parallel to the RMA.
- If trees or logs fall or slide into a stream channel they will not be limbed, bucked, or removed without approval from ODF.
- When cable yarding lines are strung across RMA's they will be an average of 150 feet apart and pulled out prior to rigging the next yarding road.
- Logs will be fully suspended when being yarded across Lost Creek and the RMA
- Cable yarding will be used on high risk sites.
- Logs will have at least one end suspended when yarded across Type N streams and high risk sites
- Soil gouging will be incidental and limited to a depth of 1 foot (measured vertically).
- Ground yarding equipment will not operate within 35 feet of Type N streams.
- Ground yarding will not be allowed on high risk sites.
- The discovery of a High Risk Site may require consultation with the Area geotechnical specialist and/or removal of the site from the harvest area.

**PROJECT WORK:**

- In stream project work activity within 100 feet of the protected streams will be allowed between July 1 and September 15.
- Sediment traps will be used as needed to protect water quality.
- Fill material will be placed and compacted in 8 inch lifts. Fill slopes will be constructed at a 1½ :1 fill width to height ratio.
- Waste material will be end-hauled to stable locations marked in the field.
- Roads will not be constructed on high risk sites.

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