



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Cost Summary Logical Thinning Sale 341-02-33

District: Coos

Date: 7/3/01

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$125,542.93	\$568.85	\$126,111.78
		Project Work	(\$13,209.16)
		Advertised Value	\$112,902.62



Timber Sale Appraisal Timber Description Logical Thinning Sale 341-02-33

"STEWARDSHIP IN FORESTRY"

District: Coos

Location: Portions of section 20,21,29,32 T24S, R11W

Date: 7/3/01

Stand Stocking: 80%

Species	Avg. DBH	Amortized%	Recovery%
Douglas - Fir	10	0	95
Alder (Red)	8	0	90

Volume by Grade	Douglas - Fir	Alder (Red)	Total
2S	15	0	15
3S	464	0	464
4S	294	0	294
Camprun	0	5	5
Total	773	5	778

Comments: Pond Values Used: 2nd Quarter 2001



Timber Sale Appraisal Logging Conditions Logical Thinning Sale 341-02-33

"STEWARDSHIP IN FORESTRY"

Combination#: 1	Douglas - Fir	90.00%	
	Alder (Red)	90.00%	
Yarding Distance:	Medium (800 ft)		Downhill Yarding: No
Logging System:	Cable: Small Tower <=40		Process: Manual Delimiting
Tree Size:	Small / Thinning 9in (70 Bft/tree), 20+ logs/MBF		
Loads/Day:	3		Bd. Ft./Load: 3,500
Cost/MBF:	\$245.53		
Machines:			
	Log Loader (A)		
	Tower Yarder (Small)		
Combination#: 2	Douglas - Fir	10.00%	
	Alder (Red)	10.00%	
Yarding Distance:	Short (400 ft)		Downhill Yarding: Yes
Logging System:	Wheel Skidder		Process: Manual Falling/Delimiting
Tree Size:	Small / Thinning 9in (70 Bft/tree), 20+ logs/MBF		
Loads/Day:	3		Bd. Ft./Load: 3,500
Cost/MBF:	\$285.79		
Machines:			
	Log Loader (B)		
	Tire Skidder		



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Logging Costs Logical Thinning Sale 341-02-33

Date: 7/3/01

Operating Seasons: 1.0

Profit & Risk: 17%

Project Costs: \$13,209

Other Costs (P/R): \$1,772

Slash Disposal: \$0

Other Costs: \$0

Road Maintenance: \$0.00

Miles of Road			
Dirt	Rock (Contractor)	Rock (State)	Paved
3.5	4.0	0.0	0.0

Hauling Costs

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



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Logging Costs Breakdown Logical Thinning Sale 341-02-33

Costs	Douglas - Fir	Alder (Red)
Logging	249.56	249.56
Road Maintenance	3.29	3.48
Fire Protection	3.48	3.48
Hauling	46.11	56.78
Other (P/R appl.)	2.28	2.28
Profit & Risk	51.80	53.65
Slash Disposal	0.00	0.00
Scaling	2.00	2.00
Other	0.00	0.00
Total	358.52	371.23

Amortization	0.00	0.00
Pond Value	520.93	485.00
Stumpage	162.41	113.77
Amortized	0.00	0.00



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Summary Logical Thinning Sale 341-02-33

Amortized

	Douglas - Fir	Alder (Red)
MBF	0.00	0.00
Value	0.00	0.00
Total	0.00	0.00

Unamortized

	Douglas - Fir	Alder (Red)
MBF	773.00	5.00
Value	162.41	113.77
Total	125,542.93	568.85

Gross Timber Sale Value

Recovery \$126,111.78

Prepared by: Norma Kline

Date: 7/3/01

District: Coos

Phone: (510) 267-1758

Summary of "Other Costs" for Timber Sale Appraisals

Sale Name: Logical Thinning

Additional "Other Cost" with additional profit and risk to be added:

	<u>Units</u>	<u>Quantity</u>	<u>Cost/unit</u>	<u>Total Cost</u>
				\$ -
Additional Costs with Profit and Risk to be added				
Brand and paint logs	MBF	511	\$ 2.00	\$ 1,022.00
Loader time for firewood stacking	Hours	10	\$ 75.00	\$ 750.00
Total additional "Other Cost" with additional profit and risk to be added				\$ 1,772.00

SUMMARY OF CONSTRUCTION COST

Project 1a: Road and Landing Improvement

Points A to B
 Length: 9024'
 Type: 14' wide, no ditch

Clearing and Grubbing

Saw time for clearing road edges	10	hrs at	\$30.00	per hr	\$300.00
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Total clearing and grubbing					\$300.00
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Excavation

D7 Cat time for improvements	40	hrs at	\$95.00	per hr	\$3,800.00
Laborer	40	hrs at	\$30.00	per hr	\$1,200.00

Total Excavation					\$5,000.00
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Grade Road Surface

	3	hrs Grade @	\$75.00	per hour	\$225.00
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Total Grading					\$225.00
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Culvert Installation

18" culvert, includes installation	50	feet at	\$12.00	per ft	\$600.00
18" bands	2	bands at	\$9.00	per band	\$18.00

Total Culverts					\$618.00
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Project 1a Cost					\$6,143.00
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Project 1b: Road and Landing Improvement

Points C to D
 Length: 600'
 Type: 14' wide, no ditch

Clearing and Grubbing

	0.4	acres at	\$600.00	per acre	\$240.00
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Total clearing and grubbing					\$240.00
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Excavation

D7 Cat time for improvements	4	hrs at	\$95.00	per hr	\$380.00
Laborer	4	hrs at	\$30.00	per hr	\$120.00

Total Excavation					\$500.00
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SUMMARY OF CONSTRUCTION COST

Grade Road Surface

<u>1</u>	hrs Grade @	<u>\$75.00</u>	per hour	<u>\$75.00</u>	
					Total Grading
					\$75.00
					Project 1b Cost
					\$815.00

Project 1c: Road and Landing Improvement

Points E to F
 Length: 1500'
 Type: 14' wide, no ditch

Clearing and Grubbing

<u>1</u>	acres at	<u>\$600.00</u>	per acre	<u>\$600.00</u>	
					Total clearing and grubbing
					\$600.00

Excavation

D7 Cat time for improvements	<u>10</u>	hrs at	<u>\$95.00</u>	per hr	<u>\$950.00</u>	
Laborer	<u>10</u>	hrs at	<u>\$30.00</u>	per hr	<u>\$300.00</u>	
						Total Excavation
						\$1,250.00

Culvert Installation

18" culvert, includes installation	<u>50</u>	feet at	<u>\$14.00</u>	per ft	<u>\$700.00</u>	
18" bands	<u>2</u>	bands at	<u>\$9.00</u>	per band	<u>\$18.00</u>	
						Total Culverts
						\$718.00

Grade Road Surface

<u>1</u>	hrs Grade @	<u>\$75.00</u>	per hour	<u>\$75.00</u>	
					Total Grading
					\$75.00
					Project 1c Cost
					\$2,643.00

Project 1d: Road and Landing Improvement

Points G to H
 Length: 2400'
 Type: 14' wide, no ditch

Grade Road Surface

<u>2</u>	hrs Grade @	<u>\$75.00</u>	per hour	<u>\$150.00</u>	
					Total Grading
					\$150.00
					Project 1d Cost
					\$150.00
					Total Project 1
					\$9,751.00

SUMMARY OF CONSTRUCTION COST

Project 2: Road and Landing Construction

Points I to J and I to K
 Length: 305' and 250'
 Type: 14' wide, no ditch

Clearing and Grubbing

<u>0.5</u>	acres at	<u>\$690.00</u>	per acre	<u>\$345.00</u>
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Total clearing and grubbing \$345.00

Excavation

Excavator for construction	<u>10</u>	hrs at	<u>\$97.50</u>	per hr	<u>\$975.00</u>
D7 Cat time for construction	<u>10</u>	hrs at	<u>\$95.00</u>	per hr	<u>\$950.00</u>
Laborer	<u>10</u>	hrs at	<u>\$30.00</u>	per hr	<u>\$300.00</u>

Total Excavation \$2,225.00

Grade Road Surface

<u>1</u>	hrs Grade @	<u>\$75.00</u>	per hour	<u>\$75.00</u>
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Total Grading \$75.00

Total Project 2 \$2,645.00

Move-in

Equipment	Miles	Mileage Factor	Equipment Allowance	Total
D7 Cat	25	0.58	\$387.00	\$224.46
Backhoe	25	0.58	\$241.00	\$139.78
Grader	25	0.58	\$241.00	\$139.78
Excavator	25	0.58	\$533.00	\$309.14

Total Move-in \$813.16

Total Project Costs \$13,209.16

TIMBER SALE SUMMARY

Logical Thinning

1. **Type of sale:** Thinning; Recovery, Sealed Bid.
2. **Boundary Lines:** Sale boundaries are marked on the ground with "Timber Sale Boundary" posters, red paint, and red flagging at locations shown on the Exhibit A.
3. **Revenue Distribution:** 99% BOF, 1% CSL; 100% Coos County.
4. **Sale Acreage:** There are approximately 156 net acres of accessible thinning areas.
5. **Volume by Species, Fund, and County:** See attached table.
6. **Grade by Percent:**

Species	3 Peeler	Special Mill	2 Saw	3 Saw	4 Saw/Camp
Douglas-fir			2%	60%	38%
W Hemlock	-----	-----			
Hardwood	-----	-----	-----	-----	100%

7. **Cruise:** The unit was variable plot cruised using a 20 BAF wedge factor. Full plots were measured with height, grade, and defect recorded for all trees on all plots. Cruising was done by Second Growth, Inc in 1999 and Coos Team Foresters in 2001, using the SuperACE cruising program.

A. Cruise Summary Data:

Diameter	Top Diameter	Form Point	Form Factor	CV %	SE %
D4H	6" or 25% DBH	Conifer: 16' Hardwood: 4'	Estimated or measured on all trees	20-60	12

B. Stand Summary:

Species	D4H	Trees per Acre	Basal Area (ft ² /ac)	MBF per acre
Douglas-fir	10	30-200	14-50	1.2-5
Hemlock				
Hardwood				

7. **Timber Description:** The timber in these thinning units range from 25-50 year, densely stocked Douglas-fir with a minor western hemlock and alder component.

- 8. Topography:** The stands range from gently sloped, tractor loggable areas to areas with steeply dissected slopes over 65%. Area VI lies adjacent to a small class F stream.
- 9. Logging Method:** The sale will have both tractor and cable logging areas. Tractor logging is constrained by a seasonal restriction to alleviate soil disturbance. Designated skid trails will also be required. Cable logging will be uphill with single-end suspension over the unit; full suspension will be required over designated streams and RMAs. A self clamping, multi-span capable carriage will be required to obtain the necessary suspension. Intermediate supports may also be needed for some yarding road layouts.
- 10. Access:** Access is by county road from Coos Bay to Allegany. About a mile past the West Fork of the Millicoma River, turn left onto the 1000 road. Continue along the 1000 to the 1100 road. Area I is off of the 1110 road. Area's II, III, IV and V are off the 1100 road and area VI is off the 1116 road.

11. Projects:

Project No. 1: Road Improvement

Project No. 2: Road and Landing Construction.

NET VOLUMES AND ACREAGE

Logical Thinning

SALE AREA & SPECIES		Tree cnt. 100% Units	NET VOLUMES (MBF)							Vol. per Acre
			By County and Fund						Total Vols.	
Area	Spec		Coos			Douglas				
		CSL	BOF	Total	CSL	BOF	Total			
I	D-fir		450	450				450	5.4	
	Hdwd		5	5				5	-	
II	D-fir		106	106				106	4.2	
III	D-fir		117	117				117	3.8	
IV	D-fir	5		5				5	5	
V	D-fir	1	33	34				34	1.2	
VI	D-fir		61	61				61	1.8	
TOTALS			6	772	778	0	0	0	778	

Report by: Logical Thinning

TOTAL SALE VOLUME BY SPECIES

Douglas-fir 773 MBF
 Hemlock 0 MBF
 RedCedar 0 MBF
 Hardwoods 5 MBF

Date: 6/21/2001

Unit For: _____

Asst. Dist. For. Gregory J. Hermeyer Date 6/22/01
 Date _____

**UTILITY VOLUME NOT SHOWN TO PROVIDE FOR RETENTION OF DOWN LOGS
 NO INGROWTH INCLUDED**

Sale Area	Coos Co.						Douglas County						TOTAL ACRES
	Conifer		Hard wood	Conifer		Hard woods	Conifer		Hard woods	Conifer		Hard woods	
	cc	pc		cc	pc		cc	pc		cc	pc		
I					75								75
II					20								20
III					20								20
IV		1											1
V		1			19								20
VI					20								20
SUM	0	2	0	0	154	0	0	0	0	0	0	0	156

cc- clearcut; pc - partial cut; CSL- Common School Land; BOF - Board of Forestry

WRITTEN PLAN

SALE NAME: Logical Thinning

LOCATION: Portions of Sec. 21, T24S R11W WM Coos County, OR.

LANDOWNER: Oregon Department of Forestry; 63612 Fifth Road, Coos Bay, OR. 97420-3899

CONTRACT PURCHASER: _____

NOTIFICATION NO: _____

File: I:\Misc. Admin (old sl6 backup)\FPAPLANS\Logical Thin.doc

This written plan is prepared to comply with the requirements for a written plan as provided for by the Forest Practices Act (ORS 629-635-130 and 624-24-113 section 1A). This plan outlines the measures to be taken to comply with the Forest Practices Act Class F stream protection requirements. The affected resource is Piledriver Creek, a Type F stream in the Marlow Creek drainage.

SITUATION Piledriver Creek is adjacent to area VI. An RMA has been posted to provide for a minimum of 100 feet of "no removal" protection. During yarding, if cables are strung over the RMA, care must be taken to minimize damage to the vegetation in the RMA. Protection measures required by the Forest Practices Act for the RMA are provided for in the sale contract. These measures are as follows:

FELLING AND BUCKING

1. Do not fell any trees or snags within the posted RMA boundaries.
2. Fell trees parallel to or away from the RMA so as to minimize their potential of entering the RMA or damaging RMA vegetation.

YARDING

1. Operator will use a machine capable of fully suspending logs.
2. When cables pass through or over the buffer strip shown on the contract Exhibit "A", protect the residual timber as follows:
 - a. Pull cables out of the residual timber prior to rigging the next yarding road.
 - b. Do not lower the skyline into the buffer during the yarding cycle.
 - c. Yarding roads shall be a minimum of 100 feet apart where they extend over or through the RMA.

O.D.F. REPRESENTATIVE Date

PURCHASER REPRESENTATIVE Date

OPERATOR REPRESENTATIVE Date

APPROVED BY: _____ DATE: _____

TITLE