



Timber Sale Appraisal Cost Summary Eleven Ridge Thin Sale 341-02-28

"STEWARDSHIP IN FORESTRY"

District: Coos

Date: 7/2/01

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$278,345.28	\$5,661.75	\$284,007.03
		Project Work	(\$27,353.00)
		Advertised Value	\$256,654.03



Timber Sale Appraisal Timber Description Eleven Ridge Thin Sale 341-02-28

"STEWARDSHIP IN FORESTRY"

District: Coos

Location: Portions of Sections 10, 11, and 12
T24S, R11W, WM
Coos County

Date: 7/2/01

Stand Stocking: 40%

Species	Avg. DBH	Amortized%	Recovery%
Douglas - Fir	11	0	95
Alder (Red)	10	0	90

Volume by Grade	Douglas - Fir	Alder (Red)	Total
2S	164	0	164
3S	878	0	878
4S	446	0	446
Camprun	0	75	75
Total	1,488	75	1,563

Comments: Pond Values Used: 2nd Quarter 2001

Autemark Thinning Appraised on 219 acres net operational



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal

Logging Conditions

Eleven Ridge Thin

Sale 341-02-28

Combination#: 1	Douglas - Fir	90.00%	
Yarding Distance:	Short (400 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: 3,400
Cost/MBF:	\$252.75		
Machines:			
	Log Loader (A)		
	Tower Yarder (Small)		
Combination#: 2	Douglas - Fir	10.00%	
Yarding Distance:	Short (400 ft)		Downhill Yarding No
Logging System:	Wheel Skidder		Process: Manual Falling/Delimiting
Tree Size:	Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF		
Loads/Day:	3		Bd. Ft./Load: 3,700
Cost/MBF:	\$270.34		
Machines:			
	Log Loader (B)		
	Tire Skidder		
Combination#: 3	Alder (Red)	100.00%	
Yarding Distance:	Short (400 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: 3,000
Cost/MBF:	\$286.45		
Machines:			
	Log Loader (A)		
	Tower Yarder (Small)		



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal

Logging Costs

Eleven Ridge Thin

Sale 341-02-28

Date: 7/2/01

Operating Seasons: 1.0

Profit & Risk: 16%

Project Costs: \$27,353

Other Costs (P/R): \$6,438

Slash Disposal: \$0

Other Costs: \$3,126

Miles of Road			
Dirt	Rock (Contractor)	Rock (State)	Paved
1.5	0.0	0.0	0.0

Road Maintenance: \$0.00

Hauling Costs

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



Timber Sale Appraisal Logging Costs Breakdown Eleven Ridge Thin Sale 341-02-28

"STEWARDSHIP IN FORESTRY"

Costs	Douglas - Fir	Alder (Red)
Logging	254.51	286.45
Road Maintenance	0.47	0.50
Fire Protection	1.73	1.73
Hauling	34.58	56.78
Other (P/R appl.)	4.12	4.12
Profit & Risk	47.27	55.93
Slash Disposal	0.00	0.00
Scaling	2.00	2.00
Other	2.00	2.00
Total	346.68	409.51

Amortization	0.00	0.00
Pond Value	533.74	485.00
Stumpage	187.06	75.49
Amortized	0.00	0.00



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Summary Eleven Ridge Thin Sale 341-02-28

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	1,488.00	75.00
Value	187.06	75.49
Total	278,345.28	5,661.75

Gross Timber Sale Value

Recovery \$284,007.03

Prepared by: Chris Rudd

Date: 7/2/01

District: Coos

Phone: (541) 267-4136

SUMMARY OF CONSTRUCTION COST

Eleven Ridge Thin

Project 1a: Road and Landing Improvement

Points A to B and C to D
 Length: 5950' and 650'
 Type: 14', no ditch

Excavation

D-7 Cat time for improvements	55	hrs at	\$95.00	per hr	\$5,225.00
Excavator time for improvements	55	hrs at	\$97.50	per hr	\$5,362.50
Drill and Comp. - includes powder & caps	5	hrs at	\$150.00	per hr	\$750.00
Laborer - includes saw time	55	hrs at	\$30.00	per hr	\$1,650.00
Total Excavation					\$12,987.50

Hauling

Hauling for waste material	10	hrs at	\$55.00	per hr	\$550.00
Total Hauling					\$550.00

Culvert Installation

18" culvert and installation	280	feet at	\$12.00	per ft	\$3,360.00
18" culvert bands	11	bands at	\$9.00	per band	\$99.00
Total Culverts					\$3,459.00

Grade Road Surface

	5	hrs Grade @	\$75.00	per hour	\$375.00
Total Grading					\$375.00

Project 1a Cost \$17,371.50

Project 1b: Road and Landing Improvement

Points E to F and landings at Pt E and Pt. D
 Length: 2000'
 Type: 12', swing road

Excavation

Cat time - includes landing at E	25	hrs at	\$95.00	per hr	\$2,375.00
Laborer - includes saw time, landing at E	25	hrs at	\$30.00	per hr	\$750.00
Total Excavation					\$3,125.00

Project 1b Cost \$3,125.00

Project 1c: Road and Landing Improvement

Points G to H
 Length: 875'
 Type: 12', swing road

SUMMARY OF CONSTRUCTION COST

Eleven Ridge Thin

Excavation

Cat time for road & landing improvements	10	hrs at	\$95.00	per hr	\$950.00
Laborer	10	hrs at	\$30.00	per hr	\$300.00

Total Excavation \$1,250.00

Project 1c Cost \$1,250.00

Project 1d: Road and Landing Improvement

Points I to J
 Length: 500'
 Type: 14', no ditch

Clearing and Grubbing

0.15	acres at	\$400.00	\$ per acre =	\$60.00
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Total clearing and grubbing \$60.00

Grade Road Surface

1	hrs Grade @	\$75.00	per hour	\$75.00
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Total Grading \$75.00

Project 1d Cost \$135.00

Project 1e: Road and Landing Improvement

Points K to L
 Length: 3400'
 Type: 14', w/ditch

Grade Road Surface

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

Project 1e Cost \$225.00

Move-in

Equipment	Miles	Mileage Factor	Equipment Allowance	Total
Excavator	25	0.58	\$533.00	\$309.14
D7 Cat	25	0.58	\$387.00	\$224.46
Grader	25	0.58	\$241.00	\$139.78
Drill & Comp	25	0.58	\$241.00	\$139.78
Dump Truck	25	0.58	\$144.00	\$83.52

Total Move-in \$896.68

Total Project 1 Cost \$23,003.18

SUMMARY OF CONSTRUCTION COST

Eleven Ridge Thin

Project 2: Surfacing Rock

Location: 1000 & 1400 Roads

Size: 1 1/2" - 0"

Haul time: 2.25 hr

Repair rock for 1000 and 1400 roads	<u>300</u>	yds at	<u>\$7.00</u>	per yard	<u>\$2,100.00</u>
Haul cost for rock	<u>300</u>	yds at	<u>\$7.50</u>	per yard	<u>\$2,250.00</u>

Total Project 2 Cost \$4,350.00

Total Project Costs \$27,353.18

TIMBER SALE SUMMARY

Eleven Ridge Thin

1. **Type of sale:** Thinning, Recovery, Sealed Bid.
2. **Boundary Lines:** Area I and II are bordered by the 1000 Road on the East and the 1400 Road on the North (see Exhibit A). The southwest boundary is at the stream buffer shown on the Exhibit A. Most sale boundaries are posted with "Timber Sale Boundary" posters, red flagging or red paint. Other boundaries are delineated by unposted buffer areas or are bounded by significant timber type changes. Group selection areas are posted with yellow "area boundary" posters, yellow flagging, and yellow paint. Road right-of-ways are marked with centerline stakes.
3. **Revenue Distribution:** 88% CSL, 12% BOF, 100% Coos County.
4. **Sale Acreage:** Volumes were calculated on net acres excluding from the gross: non-operational areas, stream buffers, low density areas, and alder patches. The total sale area is 278 acres gross (Area I, II, and III are 167, 77, and 34 acres). The net acres for Areas I, II, and III are 140, 51, and 28 acres respectively for a total of 219 acres. The acreage was determined from orthophotography and measuring tool available in the ArcView geographic information system program.
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			164	878	446
Hardwood	----	----	----	----	75

7. **Cruise:** The timber was cruised in 1999 as part of our inventory program. Volumes were determined using the Superace program. Dominant trees will have grown about .4 inches diameter since the cruise, with slightly less growth in trees that will be removed.

A. Cruise Summary Data:

Diameter	Top Diameter	Form Point	Form Factor	SE %
D4H	Total Height	Conifer: 16' Hardwood: 4'	Estimated or measured on all trees	7%

B. Summary of Cut Trees:

Species	D4H	Trees per Acre	Basal Area (ft ² /ac)	MBF per acre
Douglas-fir (Area I)	11.6	70	36	5
Douglas-fir (Area II)	12	75	79	8
Douglas-fir (Area III)	10.3	91	53	5
Group Selection Areas and Right of Way Timber	16	112	180	17-24
Hardwood	10	--	--	0.5

8. **Timber Description:** The timber sale is stocked with 35 year-old second growth Douglas-fir. The average diameter of these stands is around 12-13 inches, but there is a significant amount of larger timber (around 17 inches). Stocking varies throughout the stand. Only areas that exceed the minimum basal area requirements will be thinned. A small amount of alder will be removed from the sale. Hemlock and cedar are reserved from cutting except in logging corridors and for safety reasons.
9. **Topography:** The sale area is mostly on steep and dissected slopes with benches throughout the stand. In general group selection areas are on flatter ground.
10. **Logging Method:** The majority of this sale will be cable logged with some skidding as directed by the STATE on moderate ground. Area I will be accessible from the 1400 road and the spur road that runs through the unit to the landings. Area II will be accessible from the 1000 road and a spur road to the South. A swing road will be built in Area II that can be accessed with a mobile yarder and a skidder/forwarder or similar logging system. The Purchaser will submit an operations plan that will be approved on the basis of meeting the contract specifications and maximizing the area treated. The portion of Area III that is seasonally restricted should be logged between September 15 and prior to fall rains. Otherwise, the Purchaser will need to surface the access spur.
11. **Access:** From Coos Bay, take the Coos River Highway 1 mile past Allegany. Turn left on the 1000 Rd (Elk Ridge Rd following Marlow Ck.) Drive 7 miles to the 1370 Road, turn west onto the 1370 to area III. Area I and II are located off the 1000 at the 8 mile marker and off the 1400 Road 8 ¼ miles up.
12. **Projects:**

Project No. 1: Road and Landing Improvement: See section 69 of the contract for the project point locations, the "Summary of Project Costs", and section 71 credit for project work. The total cost of project work will be credited as project work is completed.

Project No. 2: Road Surfacing: This is a separate project to repair the 1000 and 1400 roads at the completion of the sale or stockpile the rock if it is not needed.

NET VOLUMES AND ACREAGE

SALE AREA & SPECIES		Tree cnt. 100% Units	NET VOLUMES (MBF)							
			By County and Fund						Total Vols.	Vol. per Acre
			Coos			Douglas				
Area	Spec	CSL	BOF	Total	CSL	BOF	Total			
I	D-fir	855		855			0	855	5	
	Hdwd	55		55			0	55	0	
II	D-fir	454		454			0	454	8	
	Hdwd	20		20			0	20	0	
III	D-fir	179		179			0	179	5	
	Hdwd	0		0			0	0	0	
TOTALS		1563	0	1563	0	0	0	1563		

TOTAL SALE VOLUME BY SPECIES

Douglas-fir 1488 MBF
 Hardwoods 75 MBF

Report by: Eleven Ridge Thin

Date: 03/09/2001

Unit For. Walt P. King 5/16/01
 Date

Asst. Dist. For. Gregory J. Krueger 5/16/2001
 Date

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

ACREAGE BY COUNTY (to nearest acre)

Coos County (100%)										Total Acres	Total Acres
Partial Cut and Thinning (100%)											
Sale Area	Gross CSL Acres		Net CSL Acres		Gross BOF Acres		Net BOF Acres		Gross	Net	
	Thinned		Thinned		Thinned		Thinned				
	Conifer	Hdwd	Conifer	Hdwd	Conifer	Hdwd	Conifer	Hdwd			
I	167		140						167	140	
II	77		51						77	51	
III					34		28		34	28	
SUM									278	219	

cc- clearcut

pc- partial cut

BOF - Board of Forestry

CSL - Common School Land

WRITTEN PLAN

SALE NAME: Eleven Ridge Thin

LOCATION: Portions of Sec. 10, 11 and 12 T24S R11W WM Coos County, Or.

LANDOWNER: Oregon Department of Forestry; 300 5th St. Bay Park, Coos Bay, Or.

CONTRACT PURCHASER: _____

NOTIFICATION NO: _____

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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 Eleven Creek, a Class F stream, located adjacent to Area I of this timber sale.

SITUATION Eleven Creek, a type F stream, is near the Eleven Ridge Thin timber sale. 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