



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Cost Summary Schumacher Ridge No.3 Sale 341-04-53

District: Coos

Date: 7/10/03

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$1,925,451.36	\$30,623.80	\$1,956,075.16
		Project Work	(\$40,878.18)
		Advertised Value	\$1,915,196.98



Timber Sale Appraisal Timber Description Schumacher Ridge No.3 Sale 341-04-53

"STEWARDSHIP IN FORESTRY"

District: Coos

Location: Portions of Sections 8,9, 16 and 17 T24S, R11W, WM. Coos County, Oregon

Date: 7/10/03

Stand Stocking: 60%

Species	Avg. DBH	Amortized%	Recovery%
Douglas - Fir	22	0	95
Alder (Red)	18	0	90

Volume by Grade	Douglas - Fir	Alder (Red)	Total
3P	155	0	155
SM	103	0	103
2S	3,217	0	3,217
3S	1,349	0	1,349
Camprun	0	85	85
Total	4,824	85	4,909

Comments: Pond Values Used: 2nd Quarter 2003



Timber Sale Appraisal Logging Conditions Schumacher Ridge No.3 Sale 341-04-53

"STEWARDSHIP IN FORESTRY"

Combination#: 1	Douglas - Fir	100.00%	
	Alder (Red)	100.00%	
Yarding Distance:	Medium (800 ft)		Downhill Yarding: No
Logging System:	Cable: Large Tower >=70		Process: Manual Delimiting
Tree Size:	Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF		
Loads/Day:	12		Bd. Ft./Load: 4,000
Cost/MBF:	\$73.96		
Machines:			
	Log Loader (A)		
	Tower Yarder (Large)		



Timber Sale Appraisal Logging Costs Schumacher Ridge No.3 Sale 341-04-53

"STEWARDSHIP IN FORESTRY"

Date: 7/10/03

Operating Seasons: 0.8

Profit & Risk: 12%

Project Costs: \$40,878

Other Costs (P/R): \$0

Slash Disposal: \$0

Other Costs: \$9,022

Miles of Road			
Dirt	Rock (Contractor)	Rock (State)	Paved
1.0	0.0	0.0	0.0

Road Maintenance: \$0.00

Hauling Costs

Species	\$/MBF	Trips/Day	MBF/Load
Douglas - Fir	\$0.00	3.0	4.5
Alder (Red)	\$0.00	3.0	3.5



Timber Sale Appraisal Logging Costs Breakdown Schumacher Ridge No.3 Sale 341-04-53

"STEWARDSHIP IN FORESTRY"

Costs	Douglas - Fir	Alder (Red)
Logging	73.96	73.96
Road Maintenance	0.32	0.33
Fire Protection	0.45	0.00
Hauling	35.89	48.67
Other (P/R appl.)	0.00	0.00
Profit & Risk	13.27	14.76
Slash Disposal	0.00	0.00
Scaling	2.00	2.00
Other	1.87	0.00
Total	127.76	139.72

Amortization	0.00	0.00
Pond Value	526.90	500.00
Stumpage	399.14	360.28
Amortized	0.00	0.00



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Summary Schumacher Ridge No.3 Sale 341-04-53

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	4,824.00	85.00
Value	399.14	360.28
Total	1,925,451.36	30,623.80

Gross Timber Sale Value

Recovery \$1,956,075.16

Prepared by: Norma Kline

Date: 7/10/03

District: Coos

Phone: (541) 267-1758

Summary of "Other Costs" for Timber Sale Appraisals

Sale Name: Schumacher Ridge No 3

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>
Felling				
Directional Felling	MBF	500	\$ 2.00	\$ 1,000.00
				\$ -
Yarding and Loading				
Brand and paint logs	MBF	2222	\$ 1.00	\$ 2,222.00
Loader time for firewood stacking	Hours	4	\$ 75.00	\$ 300.00
Tree Topping				
	Trees	25	\$ 100.00	\$ 2,500.00
Miscellaneous Costs				
Artificial guyline support	anchor	6	\$ 500.00	\$ 3,000.00
Maintenance rock per section 5	Cubic Yards		\$ 18.00	\$ -
Safety Flagging and/or signing	per day		\$ 150.00	\$ -

Total additional "Other Cost" with additional profit and risk to be added

\$ 9,022.00

Additional "Other Cost" with no additional profit and Risk

	<u>Units</u>	<u>Quantity</u>	<u>Cost/unit</u>	<u>Total Cost</u>
Non-required road construction	Stations			\$ -
Non-rquired road rocking	Cubic Yards			\$ -
Stream clearance	Feet			\$ -
Scaling (high piece count)	MBF		\$ 1.00	\$ -

Total additional "Other Cost" with no additional profit and Risk

\$ -

SUMMARY OF CONSTRUCTION COST
Schumacher Ridge No. 3

Project 1A: Road and Landing Improvement

Points: A to B
 Length: 8725'
 Type: 14' subgrade, w/ ditch

Clearing and Grubbing

Sawtime to remove brush along roadside	10	hrs at	\$60.00	per hr	\$600.00
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Total clearing and grubbing \$600.00

Excavation

Cat time for improvements	5	hrs at	\$95.00	per hr	\$475.00
Laborer	5	hrs at	\$30.00	per hr	\$150.00

Total Excavation \$625.00

Grade Road Surface

Smooth road surface, pull ditch - Grader	6	hrs at	\$75.00	per hour	\$450.00
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Total Grading \$450.00

Project 1A Total \$1,675.00

Project 1B: Road and Landing Improvement

Points: C to D
 Length: 300'
 Type: 14' subgrade

Excavation

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

Grade Road Surface

Smooth road surface - Grader	0.5	hrs at	\$75.00	per hour	\$37.50
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Total Grading \$37.50

Project 1B Total \$537.50

**SUMMARY OF CONSTRUCTION COST
Schumacher Ridge No. 3**

Project 1C: Road and Landing Improvement

Points: E to F
Length: 1025'
Type: 14' subgrade

Clearing and Grubbing

Sawtime to remove alders on roadside	5	hrs at	\$60.00	per hr	\$300.00
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Total clearing and grubbing \$300.00

Excavation

Excavator to remove slough & slides	10	hrs at	\$110.00	per hr	\$1,100.00
Cat time for improvements	5	hrs at	\$95.00	per hr	\$475.00
Haul out waste material, brush and trees	10	hrs at	\$60.00	per hr	\$600.00
Laborer	10	hrs at	\$30.00	per hr	\$300.00

Total Excavation \$2,475.00

Grade Road Surface

Smooth road surface - Grader	1	hrs at	\$75.00	per hour	\$75.00
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Total Grading \$75.00

Project 1C Total \$2,850.00

Project 1D: Road and Landing Improvement

Points: G to H
Length: 170'
Type: 14' subgrade

Excavation

Cat time for improvements	3	hrs at	\$95.00	per hr	\$285.00
Laborer	3	hrs at	\$30.00	per hr	\$90.00

Total Excavation \$375.00

Grade Road Surface

Smooth road surface - Grader	1	hrs at	\$75.00	per hour	\$75.00
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Total Grading \$75.00

Project 1D Total \$450.00

**SUMMARY OF CONSTRUCTION COST
Schumacher Ridge No. 3**

Project 1E: Road and Landing Improvement

Points: J to K
Length: 600'
Type: 14' subgrade

Clearing and Grubbing

Sawtime to remove alders on roadside 5 hrs at \$60.00 per hr \$300.00

Total clearing and grubbing \$300.00

Excavation

Excavator to remove shot rock 4 hrs at \$110.00 per hr \$440.00
Cat time for improvements 4 hrs at \$95.00 per hr \$380.00
Drill and Shoot to widen 5 hrs at \$150.00 per hr \$750.00
Laborer 9 hrs at \$30.00 per hr \$270.00

Total Excavation \$1,840.00

Grade Road Surface

Smooth road surface - Grader 1 hrs at \$75.00 per hour \$75.00

Total Grading \$75.00

Project 1E Total \$2,215.00

Project 1F: Landing Improvement

Points: I
Type: Landing

Excavation

Cat time for improvements 2 hrs at \$95.00 per hr \$190.00

Total Excavation \$190.00

Project 1F Total \$190.00

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

Project 1 Cost \$8,814.18

**SUMMARY OF CONSTRUCTION COST
Schumacher Ridge No. 3**

Project No. 2A: Sullivan Ridge II Stockpile

Location: 3.5 mi on 3000 Rd
Measured amount: 1000 cubic yards
Delivered amount: 1200 cubic yards (20% expansion)
Size: 1 1/2" - 0"

Cost per cubic yard at crusher:	\$7.00	per cu yd
Haul cost per cubic yard (1.0 hr. RT):	\$3.33	per cu yd
Piling and shaping cost per cubic yard:	\$0.53	per cu yd

Total cost per cubic yard:	\$10.86	per cu yd
Total cubic yards:	1200	cubic yards

Total Cost for Stockpile rock: \$13,032.00

Project No. 2B: Benson Stockpile

Location: 4.5 mi on 4000 Rd
Measured amount: 1000 cubic yards
Delivered amount: 1200 cubic yards (20% expansion)
Size: 1 1/2" - 0"

Cost per cubic yard at crusher:	\$7.00	per cu yd
Haul cost per cubic yard (2.5 hr. RT):	\$8.33	per cu yd
Piling and shaping cost per cubic yard:	\$0.53	per cu yd

Total cost per cubic yard:	\$15.86	per cu yd
Total cubic yards:	1200	cubic yards

Total Cost for Stockpile rock: \$19,032.00

Project 2 Cost \$32,064.00

Total Project Costs \$40,878.18

TIMBER SALE SUMMARY

Schumacher Ridge No. 3

1. Type of sale: Final harvest; 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: This sale is 99% on CSL fund lands and 1% on BOF lands in Coos County.

4. Sale Acreage: The sale acreage is 99 acres. The acreage for the timber sale area was determined using orthophoto imagery on 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	Utility
Douglas-fir	3%	2%	67%	28%	---	----
Hardwood	----	----	----	----	100%	----

7. Cruise: The sale area was variable plot cruised using the Big BAF cruise design, which consisted of 50 nested plots. Each plot consists of both a full 40 BAF count plot and a full 360 BAF measure plot. The 40 BAF count plot was used to tally the number of trees by species to determine the stand basal area. The 360 BAF plot was used to select trees to cruise for height, grade and defect. Twenty eight Big BAF trees were cruised at form point for diameter, height, grade and defect.

A. Cruise Summary Data:

Diameter	Top Diameter	Form Point	Form Factor	Top Cr Dia.	CV %	SE %
D4H	6" or 25% DBH	Conifer: 16' Hardwood: 4'	Estimated or measured on all trees	Con:6",25% Hdwd:8"	45	8

B. Stand Summary:

Variable Plot Cruise

Species	D4H	Trees per Acre	Basal Area (ft ² /ac)	MBF per acre
Douglas-fir	22	88	227	49
Hardwood	18	10	23	1

C. Green Tree Retention: Green trees were posted outside of the timber sale.

Green Tree Retention Posted out of Timber Sale Area

Species	No.
Douglas-fir	250
Western Hemlock	8
Red Cedar	2
Hardwood	114

D. **Minor Species:** The volume of minor species is negligible, none were picked up on the timber cruise, although several were posted out of the sale near the stream buffer.

8. Timber Description: The timber in this sale area is moderately stocked second-growth Douglas-fir approximately 120 years old.

9. Topography: The unit has steep, dissected slopes over 65%.

10. Logging Method: The sale will be cable logged uphill with full suspension when sufficient deflection is available. A motorized carriage may be required to obtain the necessary suspension. Artificial guyline anchors may need to be installed for yarding portions of the sale area as approved in the operations plan.

11. Access: From Coos Bay, enter the forest via the State 2000 road, continue one mile up the 2000 road to access Area II. To access Area I, continue three miles up the 2000 road to the 2080 road, make a right turn on the 2080 road and continue 1 mile. Areas III and IV can be accessed by continuing approximately 0.1 mile to project point A.

12. Projects:

Project No. 1: Road and Landing Construction

Project No. 2: Rock Stockpiles

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	2253		2253			0	2253	49	
	Hdwd	41		41			0	41	0.1	
II	D-fir	729		729			0	729	49	
	Hdwd	13		13			0	13	0.1	
III	D-fir	1399	44	1443			0	1443	49	
	Hdwd	22	2	24			0	24	0.1	
IV	D-fir	399		399			0	399	49	
	Hdwd	7		7			0	7	0.1	
TOTALS		4863	46	4909	0	0	0	4909		

TOTAL SALE VOLUME BY SPECIES

Douglas-fir 4824 MBF
 Hardwoods 85 MBF

Report by: Schumacher Ridge No 3

Date: 6/25/2003

Unit For: Norma Klein 6/27/03
 Date

Asst. Dist. For: Greg Kreimeyer 6/26/2003
 Date

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

ACREAGE BY COUNTY (to nearest acre)

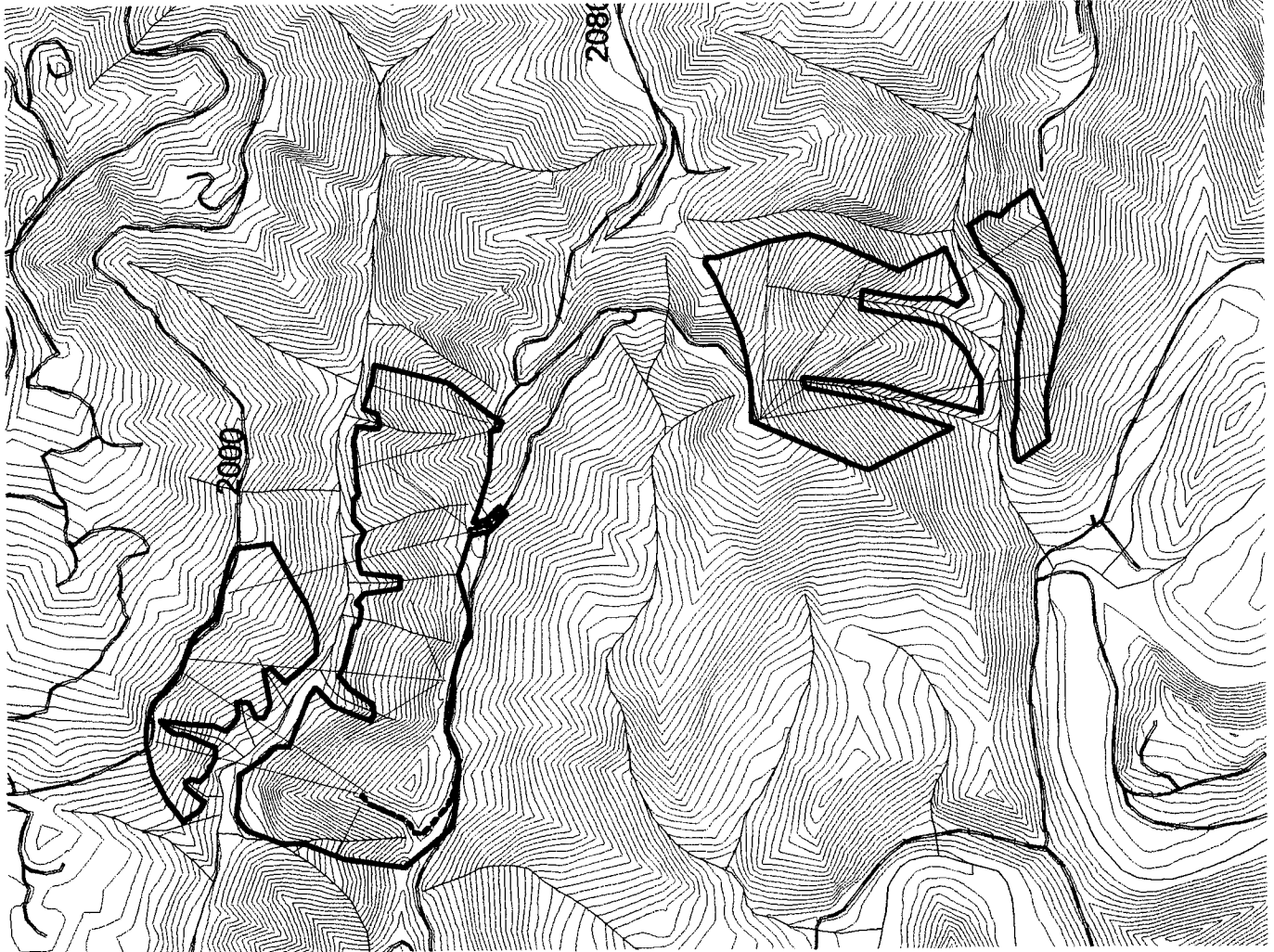
Sale Area	Coos County						Douglas County						TOTAL ACRES
	CSL			BOF			CSL			BOF			
	Conifer cc	Conifer pc	Hard wood	Conifer cc	Conifer pc	Hard woods	Conifer cc	Conifer pc	Hard woods	Conifer cc	Conifer pc	Hard woods	
I	47												47
II	15												15
III	28			1									29
IV	8												8
SUM	98	0	0	1	0	0	0	0	0	0	0	0	99

cc- clearcut



pc- partial cut

BOF - Board of Forestry

CSL - Common School Land



Logging Plan
Schumacher Ridge No. 3
Portions of Sections 8,9,16, and 17, T24S R11W, W.M
Coos County, Oregon

-  New Construction
-  Sale Area Boundary
-  Settings
-  Streams
-  Roads
-  Contours

