



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Cost Summary Hidden Valley SM Sale 341-02-38

District: Coos

Date: 8/3/01

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$1,485,703.35	\$1,744.90	\$1,487,448.25
		Project Work	(\$9,374.70)
		Advertised Value	\$1,478,073.55



Timber Sale Appraisal Timber Description Hidden Valley SM Sale 341-02-38

"STEWARDSHIP IN FORESTRY"

District: Coos

Location: Portions of Sec. 18 and 19, T23S R10W
and Sec 24 T23S R11W WM,
Coos County, Oregon

Date: 8/3/01

Stand Stocking: 40%

Species	Avg. DBH	Amortized%	Recovery%
Douglas - Fir	25	0	95
Alder (Red)	14	0	100

Volume by Grade	Douglas - Fir	Alder (Red)	Total
SM	395	0	395
2S	2,791	0	2,791
3S	489	0	489
4S	24	0	24
Camprun	0	10	10
Total	3,699	10	3,709

Comments: Pond Values Used: 2nd Quarter 2001



Timber Sale Appraisal

Logging Conditions

Hidden Valley SM

Sale 341-02-38

"STEWARDSHIP IN FORESTRY"

Combination#: 1 Douglas - Fir 91.00%

Yarding Distance: Medium (800 ft) **Downhill Yarding** No

Logging System: Cable: Medium Tower >40 - <70 **Process:** Manual Delimiting

Tree Size: Mature / Partial Cut (900 Bft/tree), 3-5 logs/MBF

Loads/Day: 5 **Bd. Ft./Load:** 4,500

Cost/MBF: \$147.40

Machines:
Log Loader (A)
Tower Yarder (Medium)

Combination#: 2 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 12in (130 Bft/tree), 12-17 logs/MBF

Loads/Day: 4 **Bd. Ft./Load:** 3,000

Cost/MBF: \$214.84

Machines:
Log Loader (A)
Tower Yarder (Small)

Combination#: 3 Douglas - Fir 9.00%

Yarding Distance: Short (400 ft) **Downhill Yarding** Yes

Logging System: Wheel Skidder **Process:** Manual Falling/Delimiting

Tree Size: Mature / Partial Cut (900 Bft/tree), 3-5 logs/MBF

Loads/Day: 7 **Bd. Ft./Load:** 4,800

Cost/MBF: \$89.31

Machines:
Log Loader (B)
Tire Skidder



Timber Sale Appraisal Logging Costs Hidden Valley SM Sale 341-02-38

"STEWARDSHIP IN FORESTRY"

Date: 8/3/01

Operating Seasons: 1.0

Profit & Risk: 16%

Project Costs: \$9,375

Other Costs (P/R): \$11,286

Slash Disposal: \$0

Other Costs: \$0

Road Maintenance: \$0.00

Miles of Road			
Dirt	Rock (Contractor)	Rock (State)	Paved
0.6	3.0	0.0	0.0

Hauling Costs

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



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Logging Costs Breakdown Hidden Valley SM Sale 341-02-38

Costs	Douglas - Fir	Alder (Red)
Logging	142.17	214.84
Road Maintenance	1.83	1.74
Fire Protection	0.73	0.00
Hauling	35.89	51.10
Other (P/R appl.)	3.05	0.00
Profit & Risk	29.39	42.83
Slash Disposal	0.00	0.00
Scaling	2.00	0.00
Other	0.00	0.00
Total	215.06	310.51

Amortization	0.00	0.00
Pond Value	616.71	485.00
Stumpage	401.65	174.49
Amortized	0.00	0.00



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Summary Hidden Valley SM Sale 341-02-38

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	3,699.00	10.00
Value	401.65	174.49
Total	1,485,703.35	1,744.90

Gross Timber Sale Value

Recovery \$1,487,448.25

Prepared by: Alan Krenz

Date: 8/3/01

District: Coos

Phone: (541) 267-1754

Summary of "Other Costs" for Timber Sale Appraisals

Sale Name: Hidden Valley SM

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>
Skidder time to swing logs in Area I	Hrs	112	\$ 76.66	\$ 8,586.00
Tree Topping	tree	30	\$ 75.00	\$ 2,250.00
Tree Girdling	tree	30	\$ 15.00	\$ 450.00

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

\$ 11,286.00

I:\Timber Sales\2001 Sales\Hidden Valley SM\Sale Prep\Cost Worksheets.XLS\Other Costs

**SUMMARY OF CONSTRUCTION COST
Hidden Valley SM**

Project No. 1a: Road and Landing Construction

Points D to E
Length: 320'
Type: 12 ft, No ditch

Clearing and Grubbing

0.25 acres at \$400.00 \$ per acre = \$100.00

Total clearing and grubbing \$100.00

Excavation

D7 Cat excavation 2 hrs at \$95.00 per hr \$190.00

Total Excavation \$190.00

Total Project 1a \$290.00

Project No. 1b: Road and Landing Construction

Points F to G
Length: 200'
Type: 12 ft, no ditch

Clearing and Grubbing

0.2 acres at \$870.00 \$ per acre = \$174.00

Total clearing and grubbing \$174.00

Excavation

D7 Cat excavation 10 hrs at \$95.00 per hr \$950.00
Excavator 5 hrs at \$97.50 per hr \$487.50

Total Excavation \$1,437.50

Total Project 1b \$1,611.50

Project No. 1c: Road and Landing Construction

Points I to J
Length: 592'
Type: Swing Road, No ditch

Clearing and Grubbing

0.25 acres at \$870.00 \$ per acre = \$217.50

Total clearing and grubbing \$217.50

**SUMMARY OF CONSTRUCTION COST
Hidden Valley SM**

Hauling

Haul waste material to waste areas 10 hrs at \$60.00 per hr \$600.00

Total Excavation \$600.00

Grade Road Surface

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

Total Grading \$225.00

Project 2b Cost \$1,940.00

Project 2c: Road and Landing Improvement

Points K to L
Type 14', no ditch
Length 4075'
Road No. 9540

Clearing and Grubbing

0.75 acres at \$400.00 \$ per acre = \$300.00

Total clearing and grubbing \$300.00

Excavation

Cat time for improvements 10 hrs at \$95.00 per hr \$950.00

Total Excavation \$950.00

Grade Road Surface

2 hrs Grade @ \$75.00 per hour \$150.00

Total Grading \$150.00

Project 2c Cost \$1,400.00

Project 2d: Road and Landing Improvement

Points M to N, M to O
Type 14', no ditch
Length 2030'
Road No. 9560

Clearing and Grubbing

0.25 acres at \$400.00 \$ per acre = \$100.00

Total clearing and grubbing \$100.00

SUMMARY OF CONSTRUCTION COST
Hidden Valley SM

Excavation

Cat time for improvements	<u>5</u>	hrs at	<u>\$95.00</u>	per hr	<u>\$475.00</u>	
						Total Excavation
						\$475.00

Grade Road Surface

	<u>2</u>	hrs Grade @	<u>\$75.00</u>	per hour	<u>\$150.00</u>	
						Total Grading
						\$150.00
						Project 2d Cost
						\$725.00
						Project 2 Cost
						\$4,365.00
						Total Cost
						\$9,374.70

TIMBER SALE SUMMARY

Hidden Valley S M

1. **Type of sale:** Ecological 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:** 100% CSL; 100% Coos County.
4. **Sale Acreage:** The total sale acreage is 240 acres. Area I is 66 acres, and Area II is 174 acres. The acreage was determined by tracing the sale area boundaries on digitally replicated ortho photographs, then using an area measurement tool in Arcview GIS software.
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	0	11	75	13	1
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 Stuntzner Engineering of Coos Bay during the month of January, 2001; using the SuperACE cruising program.

A. Cruise Summary Data: All Plots

Diameter	Top Diameter	Form Point	Form Factor	CV %	SE %
D4H	6" or 25% DBH	Conifer: 16' Hardwood: 4'	Estimated or measured on all trees	40	4.4

B. Stand Summary: (Prior to Thinning)

Species	D4H	Trees per Acre	Basal Area (ft ² /ac)	Relative Density	MBF per acre
Douglas-fir	23.8	76.3	235	48	65
Hemlock	14.6	6	7	2	1
Hardwood	17.6	8.8	15.1	4	2

8. Timber Description: The timber in this sale area developed after a major fire occurrence in this portion of the Elliott State Forest in 1868. Douglas-fir in the 100, 110 and 120 year age classes dominate the site and stocking levels range from moderate to dense. Portions of the operation contains scattered pockets of red alder and understory hemlock trees and general stand health is satisfactory which is typical for the Elliott Forest

9. Topography: It is located on the western slope of the Coast Range and has topography ranging from steep and dissected to a gentle, stream bottom bench. Slopes are mostly between 50% and 75%. There are small areas with a higher than normal slide hazard on the more precipitous slopes and one location is known to be susceptible to windthrow.

10. Logging Method: The sale will be cable logged uphill with single-end suspension over the unit; full suspension will be required over designated streams and RMAs. A motorized carriage will be required to obtain the necessary suspension.

11. Access: Entering the forest from the south past Allegany, take Marlow Ck. Rd (1000 line) to the 9000 Road. Take the 9000 Road to the 9500 Road and travel up the 9500 Road approximately ½ mile to the northern boundary of Area 1. Continue up the 9500 Road approximately 1 mile and you will enter Area 2 from the west. (See Exhibit A).

12. Projects:

Project No. 1: Improve 4.6 miles of roads and landings

Project No. 2: Construct 12 stations of roads and landings

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		FRA	FDf	Total	FRA	FDf	Total				
	D-fir		3699		3699			0	3699	15.4		
	Hem				0			0	0			
	Cedar				0			0	0			
	Hdwd		10		10			0	10	0.04		
TOTALS			3709	0	3709	0	0	0	3709			

TOTAL SALE VOLUME BY SPECIES

Douglas-fir 3699 MBF
 Hemlock _____ MBF
 RedCedar _____ MBF
 Spruce _____ MBF
 Hardwoods 10 MBF

Report by: R. Fields

Date: June 21, 2001

Unit For.

Asst. Dist. For: Gregory J. Kremer Date 6/27/2001

**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
	FRA			FDf			FRA			FDf			
	Conifer		Hard wood	Conifer		Hard woods	Conifer		Hard woods	Conifer		Hard woods	
	cc	pc		cc	pc		cc	pc		cc	pc		
		238	2										240
SUM	0	238	2	0	0	0	0	0	0	0	0	0	240

cc- clearcut

pc- partial cut

FDf- Forest Development Fund

FRA- Forest Revenue Account

Volume Summary of Prescription Areas (per Exhibit D)

Rx 1	Per Area		Per Acre		
	DBH	RD	TPA	Basal Area	MBF
Current	25	43	64	213	57
Harvest	25-31	9	11	51	13
Residual	24	34	53	162	44

Rx2	Per Area		Per Acre		
	DBH	RD	TPA	Basal Area	MBF
Current	23	60	98	290	77
Harvest	25-31	20	24	110	31
Residual	22	40	74	180	46

Rx3	Per Area		Per Acre		
	DBH	RD	TPA	Basal Area	MBF
Current	24	39	72	178	47
Harvest	25-31	4	5	23	10
Residual	23	35	67	155	37

Rx4	Per Area		Per Acre		
	DBH	RD	TPA	Basal Area	MBF
Current	20	59	123	262	61
Harvest	21-31	21	27	100	25
Residual	18	38	96	162	36

Rx5	Per Area		Per Acre		
	DBH	RD	TPA	Basal Area	MBF
Current	25	48	70	238	68
Harvest	24-31	13	16	67	19
Residual	24	35	54	171	49

Rx6	Per Area		Per Acre		
	DBH	RD	TPA	Basal Area	MBF
Current	25	60	90	298	86
Harvest	21-31	23	32	116	33
Residual	24	37	58	182	53

Rx7	Per Area		Per Acre		
	DBH	RD	TPA	Basal Area	MBF
Current	25	59	85	297	86
Harvest	22-31	24	30	123	36
Residual	24	36	55	174	50

