



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
MP97 Salvage
Sale WL-341-2020-W00525-01

District: Western Lane

Date: September 19, 2019

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$307,994.25	\$0.00	\$307,994.25
		Project Work:	(\$18,058.00)
		Advertised Value:	\$289,936.25



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Timber Description

Location: Sections 7, 18 of T32S R5W, Sections 31, 32 of T31S R5W W.M Douglas, County

Stand Stocking: 20%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	15	0	90
Western Hemlock / Fir	17	0	90
Grand Fir	17	0	90
Incense Cedar	18	0	90

Volume by Grade	Camprun	Total
Douglas - Fir	2,023	2,023
Western Hemlock / Fir	51	51
Grand Fir	408	408
Incense Cedar	47	47
Total	2,529	2,529

Comments: Pond Values Used: Locat pond Values August 2019

Hauling Cost Allowance = equivalent to \$950 daily truck cost

Other Costs (With Profit and Risk to be added):
None

Other Costs (No Profit and Risk Added):

Final Road Maintenance = \$22,297

TOTAL Other Costs (No Profit and Risk added) = \$22,297



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Logging Conditions

Combination#: 1 Douglas - Fir 95.00%
 Western Hemlock / Fir 95.00%
 Grand Fir 95.00%
 Incense Cedar 95.00%

Logging System: Cable: Medium Tower >40 - <70 **Process:** Harvester Head Delimbing
yarding distance: Medium (800 ft) **downhill yarding:** No
tree size: Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF
loads / day: 7 **bd. ft / load:** 4000
cost / mbf: \$277.87
machines: Log Loader (A)
 Forwarder
 Harvester
 Tower Yarder (Medium)

Combination#: 2 Douglas - Fir 5.00%
 Western Hemlock / Fir 5.00%
 Grand Fir 5.00%
 Incense Cedar 5.00%

Logging System: Shovel **Process:** Harvester Head Delimbing
yarding distance: Short (400 ft) **downhill yarding:** No
tree size: Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF
loads / day: 8 **bd. ft / load:** 4000
cost / mbf: \$167.00
machines: Forwarder
 Harvester



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Logging Costs

Operating Seasons: 2.00	Profit Risk: 15%
Project Costs: \$18,058.00	Other Costs (P/R): \$0.00
Slash Disposal: \$0.00	Other Costs: \$22,297.00

Miles of Road

Road Maintenance: \$0.00

Dirt	Rock (Contractor)	Rock (State)	Paved
0.0	5.0	0.0	0.0

Hauling Costs

Species	\$ / MBF	Trips/Day	MBF / Load
Douglas - Fir	\$0.00	3.0	4.0
Western Hemlock / Fir	\$0.00	3.0	4.0
Grand Fir	\$0.00	3.0	4.0
Incense Cedar	\$0.00	2.0	4.0



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Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
Douglas - Fir									
\$272.33	\$5.61	\$3.47	\$87.09	\$0.00	\$55.28	\$0.00	\$2.00	\$8.82	\$434.60
Western Hemlock / Fir									
\$272.33	\$5.61	\$3.47	\$87.09	\$0.00	\$55.28	\$0.00	\$2.00	\$8.82	\$434.60
Grand Fir									
\$272.33	\$5.61	\$3.47	\$87.09	\$0.00	\$55.28	\$0.00	\$2.00	\$8.82	\$434.60
Incense Cedar									
\$272.33	\$5.61	\$3.47	\$130.62	\$0.00	\$61.80	\$0.00	\$2.00	\$8.82	\$484.65

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$575.00	\$140.40	\$0.00
Western Hemlock / Fir	\$0.00	\$475.00	\$40.40	\$0.00
Grand Fir	\$0.00	\$475.00	\$40.40	\$0.00
Incense Cedar	\$0.00	\$600.00	\$115.35	\$0.00



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Summary

Amortized

Specie	MBF	Value	Total
Douglas - Fir	0	\$0.00	\$0.00
Western Hemlock / Fir	0	\$0.00	\$0.00
Grand Fir	0	\$0.00	\$0.00
Incense Cedar	0	\$0.00	\$0.00

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	2,023	\$140.40	\$284,029.20
Western Hemlock / Fir	51	\$40.40	\$2,060.40
Grand Fir	408	\$40.40	\$16,483.20
Incense Cedar	47	\$115.35	\$5,421.45

Gross Timber Sale Value

Recovery: \$307,994.25

Prepared By: Jason Hayzlett

Phone: 541-935-2283

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Combined Project Costs

Project 1	Rip and refill in burnt out stumpholes	\$1,200
Project 2	Rocking	\$8,723
Project 3	Road Brushing	\$5,635
Project 4	Equipment Move-in	\$2,500
	TOTAL PROJECT COSTS	\$18,058

Summary of "Other Costs" for Timber Sale Appraisals

MP 97 Salvage

"Other Costs" with Profit and Risk to be Added:

None

Total "Other Costs" with Profit and Risk to be Added:

\$0



"Other Costs" With No Additional Profit and Risk

	<u>Units</u>	<u>Quantity</u>	<u>Cost/Unit</u>	<u>Total Cost</u>
Final Road Maintenance	Operation			\$ 22,297
	Operation			
Total "Other Costs" With No Additional Profit and Risk:				<u>\$ 22,297</u>
Cost per MBF	2,529	MBF		\$ 8.82

State Timber Sale Contract
MP97 Salvage
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Road Brushing Costs

Location	Haul Route
Point to Point/Satationing	B to F
Miles	4.9
Brushing Intensity	Light
Cost	\$ 1,150
Total Cost	\$ 5,635
	\$ 5,635

State Timber Sale Contract
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Rocking and Compaction

Rock Source: Commercial Pit

Rock Quantity (Inplace)

Cap Rock	b to c		TOTAL
Rock Size	1 1/2"-0"		
Stations	11		11.00
Approx yds/sta	33		
Subtotal cap (cu. yds)	360		360

Aprrox Total (cu. Yds)			0
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ROCK COST (Rock + Delivery)

Road Segment/Name	C to D		TOTAL
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Rock Size	1 1/2"-0"		
Approx cu. yds	360		360
Cost/yd (includes load/spread)	\$22.23		
Subtotal Cost "Cap" Rock	\$ 8,003		\$ 8,003

Grand total quarry approx yds	360		360
Total Quarry Rock Cost	\$ 8,003		\$ 8,003

Compaction w/Processing	b to c		TOTAL
Cost/Cu. Yd.	\$2.00		
Subtotal Processing	\$ 720		\$ 720

\$/yd ³ rock in place & compacted	C to D		Total
Total Rock Costs	\$8,723		\$ 8,723

Move-in included in subgrade construction

Due to rounding, the numbers in the table above may not add up to the totals shown.

State Timber Sale Contract
 MP97 Salvage
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Subgrade Construction/Culverts
 Processing and Decking Right-of-Way Logs Not Included

Earthwork

Clearing and Grubbing	Burnt Stump Holes	TOTAL
Acreage	0	
Cost/Acre	\$0.00	
Total	\$ -	\$ -
Construction/Excavation	Burnt Stump Holes	TOTAL
Excavation Hours	8	
\$/hr	\$150.00	
Subtotal	\$ 1,200	\$ 1,200.00

Move in Cost	Initial	
Excavator	\$ 1,500	\$ -
Brusher	\$ 500	
grader	\$ 500	\$ 2,500
	\$ -	\$ 2,500.00
	\$ -	

State Timber Sale Contract
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Final Road Maintenance Cost Summary

Totals	Haul Route	Fire Line	Contingency lines	TOTAL
Stations	353.00	15.00	70.00	
Cost/Sta	44.32	\$ 46.67	\$ 56.43	
Total Cost	15646.55	700	3950	\$ 20,297

Spot Rocking	Haul Route	Fire Line	Contingency lines	TOTAL
Total Yds	300			
Rock Size	1 1/2"-0"	1 1/2"-0"	1 1/2"-0"	
\$/yd	\$22.23	\$17.05	\$17.05	
Subtotal	\$ 6,669	\$ -	\$ -	\$ 6,669

Grade,Shape & Pull Ditches	Haul Route	Fire Line	Contingency lines	TOTAL
Stations	353.00	0.00	0.00	
\$/STA	18.35	\$ 18.35	\$ 18.35	
Subtotal	6477.55	\$ -	\$ -	\$ 6,478

Install Waterbars	Haul Route	Fire Line	Contingency lines	TOTAL
# of waterbars	0.00	20.00	70.00	
\$/waterbar	35.00	\$35.00	\$35.00	
Subtotal	\$ -	\$ 700.00	\$ 2,450.00	\$ 3,150.00

Landing clean up	Haul Route	Fire Line	Contingency lines	TOTAL
Stations	5.00			
\$/STA	400.00			
Subtotal	2000.00	\$ -	\$ -	\$ 2,000

Block Access	Haul Route	Fire Line	Contingency lines	Total
Cost	\$ 500.00	\$ -	\$ 1,500.00	\$ 2,000.00

Move In	Initial
Grader	\$ 500
Vibratory Rolloer	
D * Cat	
Excavator	\$1,500
Dump Truck	

Move in costs associated with one entry for the entire project

Total Final Maintenance Costs	\$ 22,297
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Cruise Report

MP97 Salvage

SALE # 341-2020-W00525-01

Sale Area: Portions of Sections 7 & 18, T32S, R5W and Sections 31 & 32, T31S, R5W, W.M., Douglas County, Oregon. The sale's net harvestable acres are 111. There are no stream buffers. Acres were determined using a combination of aerial photos, GPS, GIS, and topographic maps.

Stand Description: MP97 Salvage Areas 1 and 2 are harvest units dominated by 43-84 year old burned Douglas-fir. A significant component of grand fir is present. The stand contains scattered incense cedar and western hemlock. Area 1 totals 51 acres and Area 2 is 60 acres. Understory is all burned.

Area 3, fire contingency line, is approximately 16 acres of 50-60 year old timber outside of the sale boundary of Area 1 and 2. Area 3 consists of unburned trees that are decked along the outside edge of the fire contingency line.

Cruise Method: Areas 1 and 2 were cruised in a grid pattern using a systematic variable plot sampling method. 57 plots were cruised in a grid pattern. Every tree was graded using the official rules for log scaling for the above species. 40, 36, and 32 foot lengths were favored for #2 and #3 sawlog grades. Deductions for defect were estimated on a tree by tree basis. The top diameter was determined at 40% form factor. Logs that were not at least 12 feet in length and having at least 20 BF were not counted.

Volumes for Area 3 were calculated with an ocular estimate.

Cruisers: Jon Enos, Ross Huffman

Volume Tables: Volumes for Area 1 and 2 were computed by using the SuperACE program.

Area 1 Net Cruised Volume (MBF)

Species	Avg. DBH	Special Mill	2 Saw	3 Saw	3 Saw 12"+	4 Saw	Sub-Total
Douglas-fir	18.1		583	211		103	897
Grand Fir	17.8		201	80		28	309
Incense Cedar	19.1		12	3		4	19
Western Hemlock	21.9		30	9		1	40

Area 1 Total (MBF): 1265

Area 2 Net Cruised Volume (MBF)

Species	Avg. DBH	Special Mill	2 Saw	3 Saw	3 Saw 12"+	4 Saw	Sub-Total
Douglas-fir	13.1		321	253		512	1086
Grand-fir	12.0		34	41		24	99
Incense Cedar	17.3		6	12		6	24
Western Hemlock	14.3			9		2	11

Area 2 Total (MBF): 1220

Area 3, Fire Contingency Line, Ocular Volume

Species	Camp Run (MBF)
Douglas-fir	40
Incense Cedar	4
Area 3, Total (MBF):	44

Total Sale Volume: 2529 MBF



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