



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Divide WUI GNA
Sale KL-341-2021-GF9818-01

District: Northeast

Date: March 12, 2021

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$37,683.08	\$0.00	\$37,683.08
		Project Work:	\$0.00
		Advertised Value:	\$37,683.08



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Timber Description

Location: T3S, R46E, Sec 23, 24, 26, 27

Stand Stocking: 60%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	12	0	90
White Fir	12	0	85
Ponderosa Pine	11	0	90
Lodgepole Pine	8	0	90

Volume by Grade	6" - 7"	8"+	Pulp	Total
Douglas - Fir	37	153	0	190
White Fir	75	300	0	375
Ponderosa Pine	0	15	0	15
Lodgepole Pine	12	21	0	33
Other	0	0	0	0
Total	124	489	0	613

Comments: Pond Vales Used: Local Pond Values, March 2021
 Log Markets: La Grande, Elgin, Clarkston, Lewiston
 Other Costs (no Profit & Risk):
 Private Road Use Fee \$500.00
 Other Costs (with Profit & Risk to be added):
 ROAD MAINTENANCE
 General Road Maintenance:
 Limited Use Road 6.5 miles x \$750.00 per mile = \$4,875.00
 Roadway Brushing 1.27 miles x \$800.00 per mile = \$1016.00
 Total Road Maintenance: \$5,891.00, \$9.61 per MBF



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Logging Conditions

Combination#: 1	Douglas - Fir	100.00%
	White Fir	100.00%
	Ponderosa Pine	100.00%
	Lodgepole Pine	100.00%
Logging System:	Wheel Skidder	Process: Feller Buncher
yarding distance:	Short (400 ft)	downhill yarding: Yes
tree size:	Small / Thinning 10in (90 Bft/tree), 18-20 logs/MBF	
loads / day:	6	bd. ft / load: 4000
cost / mbf:	\$158.19	
machines:	Log Loader (B) Stroke Delimber (B) Feller Buncher w/ Delimber Tire Skidder	



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Logging Costs

Operating Seasons: 2.00	Profit Risk: 10%
Project Costs: \$0.00	Other Costs (P/R): \$0.00
Slash Disposal: \$0.00	Other Costs: \$500.00

Miles of Road

Road Maintenance: \$9.61

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

Hauling Costs

Species	\$ / MBF	Trips/Day	MBF / Load
Douglas - Fir	\$0.00	2.0	4.0
White Fir	\$0.00	2.0	4.0
Ponderosa Pine	\$0.00	2.0	3.8
Lodgepole Pine	\$0.00	2.0	4.0
Other	\$0.00	0.0	0.0



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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									
\$158.19	\$10.57	\$14.32	\$130.62	\$0.00	\$31.37	\$0.00	\$0.00	\$0.82	\$345.89
White Fir									
\$158.19	\$11.05	\$14.32	\$136.56	\$0.00	\$32.01	\$0.00	\$0.00	\$0.82	\$352.95
Ponderosa Pine									
\$158.19	\$10.57	\$14.32	\$137.50	\$0.00	\$32.06	\$0.00	\$0.00	\$0.82	\$353.46
Lodgepole Pine									
\$158.19	\$10.57	\$14.32	\$130.62	\$0.00	\$31.37	\$0.00	\$0.00	\$0.82	\$345.89
Other									
\$0.00	\$9.61	\$0.00	\$0.00	\$0.00	\$9.61	\$0.00	\$0.00	\$0.00	\$19.22

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$420.13	\$74.24	\$0.00
White Fir	\$0.00	\$420.00	\$67.05	\$0.00
Ponderosa Pine	\$0.00	\$350.00	(\$3.46)	\$0.00
Lodgepole Pine	\$0.00	\$300.00	(\$45.89)	\$0.00
Other	\$0.00	\$0.00	(\$19.22)	\$0.00



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Summary

Amortized

Specie	MBF	Value	Total
Douglas - Fir	0	\$0.00	\$0.00
White Fir	0	\$0.00	\$0.00
Ponderosa Pine	0	\$0.00	\$0.00
Lodgepole Pine	0	\$0.00	\$0.00
Other	0	\$0.00	\$0.00

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	190	\$74.24	\$14,105.60
White Fir	375	\$67.05	\$25,143.75
Ponderosa Pine	15	(\$3.46)	(\$51.90)
Lodgepole Pine	33	(\$45.89)	(\$1,514.37)
Other	0	(\$19.22)	\$0.00

Gross Timber Sale Value

Recovery: \$37,683.08

Prepared By: Mike Billman

Phone: 541-362-6760

Divide WUI GNA
KL-341-2021-GF9818-01

Other Costs

Maintenance Limited Use Road

Number of Miles to be Maintained: 6.5
Cost per Mile: \$ 750.00
Total Cost: \$ 4,875.00
Cost/Mbf: \$ 7.95

Divide WUI GNA
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Other Costs

Roadway Clearing and Brushing

Number of Miles to be Maintained: 1.27
Cost per Mile: \$ 800.00
Total Cost: \$ 1,016.00
Cost/Mbf: \$ 1.66

DIVIDE WUI-GNA

KL-341-2021-GF9818-01

Cruise Report



"STEWARDSHIP IN FORESTRY"

SALE NAME: Divide WUI-GNA

LEGAL DESCRIPTION:

Portions of Sections 24, 25, 26, 27, and 34, T3S, R46E, W.M., Wallowa County, Oregon.

BOUNDARY LINES:

Unit boundaries are posted with "Timber Sale Boundary" signs, marked with orange paint and blue flagging.

ACREAGE:

Gross Sale Acreage: 230 Acres

Exclusion Acreage 0 Acres

Net Sale Acreage: 230 Acres

Mapping was accomplished using a handheld Global Positioning System unit with the data run on the district Geographical Information System Program.

TREATMENT:

The Timber Sale is a partial cut harvest.

CRUISE METHOD:

Variable plot cruise with all plots measured.

BASAL AREA FACTOR:

Area	BAF	Type Acreage
Area 1	10 BAF	230

MEASUREMENTS AND GRADING:

- DBH and Height were measured on all "in" trees for measure plots.
- All trees were graded using the segment system.

TREE HEIGHT:

All trees were measured to a fixed diameter outside bark. This height is usually taken as high up the bole as possible, where the cruiser can clearly see the bole, and the taper remains constant (usually 6 or 8 inches). The log segments are broken out and graded accordingly.

MINIMUM D.B.H:

9.0" DBH for sawlog volume.

DIAMETER STANDARDS:

1" diameter class

BTR:

Standard ratios were used. See attached species tables.

FORM FACTOR:

Form factor was measured or estimated at 16' for each tree. Each tree was assigned its own FF.

FORM POINT:

All trees were sighted at DBH.

VOLUME COMPUTATION:

All cruise data was input and run at the district on Atterbury's Super Ace program.

FINAL CRUISE RESULTS:

AREA	CV%	SE%	ACRES
Area 1	72.2	7.6	230

TIMBER DESCRIPTION

SAWLOG VOLUME:

This volume was obtained from the variable plot cruise. All material graded camprun. See grade table for minimum standards.

TOTAL SAWLOG VOLUME

Species	Ave. DBH	Gross Vol/Acre (bf)	Net Vol/Acre (bf)	Net Sale Vol (Mbf)
Douglas-fir	12.5	1,146	887	190
White fir	12.2	2,203	1,786	375
Ponderosa pine	11.1	157	92	15
Lodgepole pine	8.1	222	177	33
	Total	3,760	2,974	613

TOTAL NET SAWLOG VOLUME: 613 MBF

TC PSTATS		PROJECT STATISTICS							PAGE	1		
USFS		PROJECT 01							DATE	3/29/2021		
TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt		
3S	46E	24	01	VP		230.00	89	463	S	E		
			PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES					
TOTAL			89	463	5.2							
CRUISE			60	310	5.2	16,943	1.8					
DBH COUNT												
REFOREST												
COUNT			29	147	5.1							
BLANKS												
100 %												
STAND SUMMARY												
SAMPLE TREES			TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC	
CON FIR			168	32.8	12.2	35	7.6	26.7	2,203	1,786	483	483
DOUG FIR			80	16.2	12.5	35	3.9	13.7	1,146	887	257	257
PONDEROS			35	8.9	11.1	24	1.8	6.0	157	92	45	45
LP PINE			23	11.8	8.1	24	1.5	4.3	222	177	51	51
E SPRUCE			4	3.9	7.9	23	0.5	1.3	33	33	9	9
TOTAL			310	73.7	11.4	31	15.4	52.0	3,760	2,974	845	845
CONFIDENCE LIMITS OF THE SAMPLE												
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR												
CL	68.1	COEFF		SAMPLE TREES - BF				# OF TREES REQ.		INF. POP.		
SD:	1.0	VAR. %	S.E. %	LOW	AVG	HIGH		5	10	15		
CON FIR		86.0	6.6	76	81	87						
DOUG FIR		84.0	9.4	76	84	92						
PONDEROS		199.9	33.8	16	24	32						
LP PINE		153.7	32.8	19	28	38						
E SPRUCE		115.5	66.0	3	10	17						
TOTAL		98.5	5.6	67	71	75		387	97	43		
CL	68.1	COEFF		SAMPLE TREES - CF				# OF TREES REQ.		INF. POP.		
SD:	1.0	VAR. %	S.E. %	LOW	AVG	HIGH		5	10	15		
CON FIR		71.1	5.5	20	21	22						
DOUG FIR		68.3	7.6	22	23	25						
PONDEROS		137.9	23.3	8	11	13						
LP PINE		118.3	25.2	6	8	10						
E SPRUCE		121.4	69.3	1	3	5						
TOTAL		80.9	4.6	19	19	20		261	65	29		
CL	68.1	COEFF		TREES/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR. %	S.E. %	LOW	AVG	HIGH		5	10	15		
CON FIR		89.0	9.4	30	33	36						
DOUG FIR		137.7	14.6	14	16	19						
PONDEROS		271.4	28.7	6	9	11						
LP PINE		182.7	19.3	10	12	14						
E SPRUCE		583.0	61.7	2	4	6						
TOTAL		51.7	5.5	70	74	78		107	27	12		
CL	68.1	COEFF		BASAL AREA/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR. %	S.E. %	LOW	AVG	HIGH		5	10	15		
CON FIR		88.2	9.3	24	27	29						
DOUG FIR		138.8	14.7	12	14	16						
PONDEROS		259.1	27.4	4	6	8						
LP PINE		157.5	16.7	4	4	5						
E SPRUCE		583.0	61.7	1	1	2						
TOTAL		45.4	4.8	50	52	55		82	21	9		

PROJECT STATISTICS
PROJECT 01

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
3S	46E	24	01	VP	230.00	89	463	S	E

CL	68.1	COEFF	NET BF/ACRE			# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
CON FIR		116.3	12.3	1,566	1,786	2,006			
DOUG FIR		152.3	16.1	744	887	1,030			
PONDEROS		283.3	30.0	64	92	119			
LP PINE		195.4	20.7	141	177	214			
E SPRUCE		583.0	61.7	12	33	53			
TOTAL		72.2	7.6	2,747	2,974	3,202	208	52	23
CL	68.1	COEFF	NET CUFT FT/ACRE			# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
CON FIR		105.8	11.2	429	483	537			
DOUG FIR		146.8	15.5	217	257	297			
PONDEROS		265.1	28.1	33	45	58			
LP PINE		177.3	18.8	41	51	60			
E SPRUCE		583.0	61.7	3	9	14			
TOTAL		62.9	6.7	788	845	901	158	40	18

TC PLOGSTVB USFS		Log Stock Table - MBF																
<div>T3S R46E S24 TyVP230.00</div>		Project: 01												Page 2				
		Acres 230.00												Date 3/29/2021				
														Time 3:03:51PM				
S T	So Gr rt de	Log Len	Gross MBF	Def %	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches											
							2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
Total	All Species		865	20.9	684	100.0		35	155	127	145	120	78	24				