

Timber Sale Appraisal South Catherine WUI GNA Sale KL-341-2021-GF9919-01

District: Northeast Date: July 16, 2020

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$24,387.09	\$0.00	\$24,387.09
		Project Work:	\$0.00
		Advertised Value:	\$24,387.09



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Sale KL-341-2021-GF9919-01

District: Northeast Date: July 16, 2020

Timber Description

Location: T5S, R41E, Sections 27, 34

Stand Stocking: 40%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	14	0	90
White Fir	15	0	85
Ponderosa Pine	15	0	90
Western Larch	15	0	90

Volume by Grade	6" - 7"	8"+	12"+	8" - 11"	Total
Douglas - Fir	27	108	0	0	135
White Fir	1	21	0	0	22
Ponderosa Pine	0	0	39	28	67
Western Larch	2	10	0	0	12
Total	30	139	39	28	236

Comments: Pond Vales Used: Local Pond Values, July 2020

Log Markets: La Grande, Elgin, Pilot Rock

Other Costs (no Profit & Risk): Private Road Use Fee \$300.00

Other Costs (with Profit & Risk to be added):

ROAD MAINTENANCE General Road Maintenance:

Limited Use Road 0.80 miles x \$1200.00 per mile = \$960.00 Roadway Brushing 0.80 miles x \$800.00 per mile = \$640.00

Total Road Maintenance: \$1600.00, \$6.78 per MBF



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Logging Conditions

Combination#: 1 Douglas - Fir 100.00%

White Fir 100.00%
Ponderosa Pine 100.00%
Western Larch 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: 7 bd. ft / load: 4000

cost / mbf: \$135.59

machines: Log Loader (B)

Stroke Delimber (B) Feller Buncher w/ Delimber

Tire Skidder



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District: Northeast Date: July 16, 2020

Logging Costs

Operating Seasons: 1.00

Profit Risk: 10%

Project Costs: \$0.00

Other Costs (P/R): \$0.00

Slash Disposal: \$0.00

Other Costs: \$300.00

Miles of Road

Road Maintenance:

\$6.78

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	3.0	4.0	
White Fir	\$0.00	3.0	4.0	
Ponderosa Pine	\$0.00	3.0	4.0	
Western Larch	\$0.00	3.0	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								
\$135.59	\$7.46	\$18.60	\$87.09	\$0.00	\$24.87	\$0.00	\$2.00	\$1.27	\$276.88
White Fir									
\$135.59	\$7.80	\$18.60	\$91.05	\$0.00	\$25.30	\$0.00	\$2.00	\$1.27	\$281.61
Ponderosa	Pine								
\$135.59	\$7.46	\$18.60	\$87.09	\$0.00	\$24.87	\$0.00	\$2.00	\$1.27	\$276.88
Western La	arch			•			-		
\$135.59	\$7.46	\$18.60	\$87.09	\$0.00	\$24.87	\$0.00	\$2.00	\$1.27	\$276.88

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$420.00	\$143.12	\$0.00
White Fir	\$0.00	\$319.09	\$37.48	\$0.00
Ponderosa Pine	\$0.00	\$314.55	\$37.67	\$0.00
Western Larch	\$0.00	\$420.00	\$143.12	\$0.00



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District: Northeast Date: July 16, 2020

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
Western Larch	0	\$0.00	\$0.00

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	135	\$143.12	\$19,321.20
White Fir	22	\$37.48	\$824.56
Ponderosa Pine	67	\$37.67	\$2,523.89
Western Larch	12	\$143.12	\$1,717.44

Gross Timber Sale Value

Recovery: \$24,387.09

Prepared By: Mike Billman Phone: 541-362-6760

South Catherine WUI GNA KL-341-2021-GF9919-01

Other Costs

Maintenance Limited Use Road

Number of Miles to be Maintained: 0.8

 Cost per Mile:
 \$ 1,200.00

 Total Cost:
 \$ 960.00

 Cost/Mbf:
 \$ 4.07

South Catherine WUI GNA KL-341-2021-GF919-01 Other Costs

Roadway Clearing and Brushing

Number of Miles to be Maintained: 0.8

Cost per Mile: \$ 800.00

Total Cost: \$ 640.00

Cost/Mbf: \$ 2.71

Summary of Project Work



South Catherine WUI GNA KL-341-2021-GF9919-01

Project No. 1: Roadway Brushing and Clearing Included in Rd. Mnt.

Total: \$640.00 (Included in Rd. Mnt.)



KL-341-2021-GF9919-01 Cruise Report

SALE NAME: South Catherine WUI-GNA

LEGAL DESCRIPTION:

Portions of Sections 27 and 34, T5S, R41E, W.M., Union County, Oregon.

BOUNDARY LINES:

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

ACREAGE:

Gross Sale Acreage: 70 Acres

Exclusion Acreage 0 Acres

Net Sale Acreage: 70 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	20 BAF	70

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	41.9	8.1	70

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

	Ave.	Gross Vol/Acre	Net Vol/Acre	Net Sale Vol
Species	DBH	(bf)	(bf)	(Mbf)
Douglas-fir	14.5	3,175	2,010	135
White fir	15.4	519	346	22
Ponderosa pine	14.8	2,227	1,333	67
Western larch	15.3	256	177	12
	Total	6,177	3,866	236

TOTAL NET SAWLOG VOLUME: 236 MBF

DOUG IR RES		1 5/21/2020	
PICTS PIC	CuFt	BdFt	
PICYS	S	W	
TOTAL			
CRUINF			
DBH C UNT 14			
REFOREST COUNT			
COUNT BLANKS B			
BLANK 100 1			
Note			
SAMPLE TREES			
SAMPLE TREES			
Note	GROSS	NET	
PONDERONS 62 18.6 14.8 47 5.8 22.1 2.227 1,333 CON FIR 10 2.8 15.4 52 0.9 3.6 519 346 W LARCH 44 1.1 15.3 81 0.4 1.4 25.6 177 3.866 CONFIDENCE LIMITS OF THE SAMPLE FORDER OF THE SAMPLE FORDER OF THE SAMPLE CON FIR ON TO FIDENCE UNITY OF THE VOLUME WILL BE WITHIN THE SAMPLE ERROR. COL 68.1 COEFF SAMPLE TREES - BF # FT TREES RED. DOUG FIR 64.0 10.5 121 135 149 PONDER OF POPP OF TREES RED. CON FIR 64.0 10.5 212 135 149 PONDER OF POPP OF TREES RED. CON FIR 64.0 10.5 212 135 149 POPP TREES RED. CON FIR 64.0 10.0 38 41 44 POPP TREES RED. <td>CF/AC</td> <td>CF/AC</td>	CF/AC	CF/AC	
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WLARCH 14	462	46	
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DOUG FIR 75.6 14.5 1,718 2,010 2,302			
PONDEROS 105.8 20.4 1,062 1,333 1,605			
CON FIR 180.4 34.7 226 346 467			
W LARCH 340.3 65.5 61 177 292			

TC PSTATS USFS				PROJECT PROJECT		STICS THERIN			PAGE DATE	2 5/21/2020			
TWP	P RGE SC TRACT		TYF	P E	A	CRES	PLOTS	TREES	CuFt	BdFt			
005	041	34	001	VP		70.00		28	147	S	W		
CL	68.1		COEFF		NET BI	/ACRE			# OF PLOTS	REQ.	INF. POP.		
SD:	1.00		VAR.	S.E.%	LOW	AVG	HIGH		5	10	15		
TOTAL			41.9	8.1	3,555	3,866	4,177		73	18	8		
CL	68.1		COEFF		NET CU	JFT FT/A	CRE		# OF PLOTS RE	Q.	INF. POP.		
SD:	1.0		VAR.%	S.E.%	LOW	AVG	HIGH		5	10	15		
DOUG	G FIR		78.0	15.0	543	639	735						
PONDEROS			105.4	20.3	368	462	556						
CON FIR			163.7	31.5	66	96	126						
W LA	RCH.		317.7	61.1	18	47	76						
TOTA	A L		39.6	7.6	1,149	1,244	1,339		65	16	7		

TC PLOGSTVB USFS	Log Stock Table - MBF	
T005 R041 S34 TyVP 70.00	Project: CATHERIN Acres 70.00	Page 1 Date 5/21/2020 Time 6:57:52AM

s	So Gr	Log	Gross	Def	Net	%	Net Volume by Scaling Diameter in Inches										
Spp T	1	Len	MBF	%	MBF	Spc	2-3 4-5	6-7	8-9	10-11		14-15	16-19	20-23 24	-29	30-39	40+
DF	PU	12	3		3	2.0	3										
DF	PU	14	0		0	.2	0	0									
DF	PU	16	5 4		4	2.8	3				1						
DF	DO 3	M 12	1		1	.7		1									
DF	DO 3	M 14	5	10.2	4	2.9		4									
DF	DO 3	M 16	210	38.7	129	91.5		21	27	26	21	23	11				
DF	Tot	als	222	36.7	141	52.0	6	27	27	26	22	23	11				
WF	PU	12	0		0	1.7	0										
WF	PU	16	0		0	.9	0										
WF	DO 3	M 12	0		0	1.4		0									
WF	DO 3	M 16	35	34.2	23	96.0		1	2	3	5	6	5				
WF	Tot	als	36	33.2	24	9.0	1	1	2	3	5	6	5				
PP	PU	12	2 1		1	.7	1										
PP	PU	14	2		2	1.9	2										
PP	PU	15	5 2		2	2.0	2										
PP	PU	16	5 11		11	11.4	2	1	4	4							
PP	DO 3	M 12	1	83.2	0	.2		0									
PP	DO 3	M 14	3	31.2	2	2.5		2									
PP	DO 3	M 16	137	44.4	76	81.4	2	6	14	14	17	13	9				
PP	Tot	als	156	40.1	93	34.5	8	9	18	19	17	13	9				
WL	PU	16	5 1		1	8.0	1										
WL	DO 3	M 12	0		0	1.3		0									
WL	DO 3	M 16	17	33.1	11	90.8		1	2	3	4	1					
WL	Tot	als	18	30.9	12	4.6	1	2	2	3	4	1					
Total	All Spe	cies	432	37.4	271	100.0	16	39	49	50	49	44	24				