



"STEWARDSHIP IN FORESTRY"

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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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 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 Larch									
\$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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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



"STEWARDSHIP IN FORESTRY"

Project No. 1: Roadway Brushing and Clearing

Included in Rd. Mnt.

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



South Catherine WUI-GNA

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

Species	Ave. DBH	Gross Vol/Acre (bf)	Net Vol/Acre (bf)	Net Sale Vol (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

TC PSTATS		PROJECT STATISTICS							PAGE	1	
USES		PROJECT		CATHERIN			DATE	5/21/2020			
TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt	
005	041	34	001	VP		70.00	28	147	S	W	
		PLOTS		TREES	ESTIMATED TOTAL TREES		PERCENT SAMPLE TREES				
		28		147	5.3						
		14		83	5.9		1,710		4.9		
		14		64	4.6		1,404		4.6		
		REFOREST COUNT		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	
DOUG FIR		71	22.0	14.5	57	6.6	25.4	3,175	2,010	639	
PONDEROS		62	18.6	14.8	47	5.8	22.1	2,227	1,333	462	
CON FIR		10	2.8	15.4	52	0.9	3.6	519	346	96	
W LARCH		4	1.1	15.3	81	0.4	1.4	256	177	47	
TOTAL		<i>147</i>	<i>44.5</i>	<i>14.7</i>	<i>53</i>	<i>13.7</i>	<i>52.5</i>	<i>6,177</i>	<i>3,866</i>	<i>1,244</i>	
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		
DOUG FIR		64.0	10.5	121	135	149					
PONDEROS		79.9	13.5	87	100	113					
CON FIR		84.7	34.5	104	159	213					
W LARCH		50.9	29.1	126	178	229					
TOTAL		<i>72.4</i>	<i>7.9</i>	<i>114</i>	<i>124</i>	<i>134</i>	<i>209</i>	<i>52</i>	<i>23</i>		
CL	68.1	COEFF	SAMPLE TREES - CF				# OF TREES REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR		49.0	8.0	38	41	44					
PONDEROS		61.7	10.4	30	34	37					
CON FIR		67.9	27.6	33	46	59					
W LARCH		35.8	20.4	36	46	55					
TOTAL		<i>55.5</i>	<i>6.1</i>	<i>36</i>	<i>38</i>	<i>41</i>	<i>123</i>	<i>31</i>	<i>14</i>		
CL	68.1	COEFF	TREES/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR		87.6	16.9	18	22	26					
PONDEROS		104.7	20.1	15	19	22					
CON FIR		181.0	34.8	2	3	4					
W LARCH		317.8	61.1	0	1	2					
TOTAL		<i>47.1</i>	<i>9.1</i>	<i>40</i>	<i>44</i>	<i>49</i>	<i>92</i>	<i>23</i>	<i>10</i>		
CL	68.1	COEFF	BASAL AREA/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR		74.0	14.2	22	25	29					
PONDEROS		95.5	18.4	18	22	26					
CON FIR		156.4	30.1	2	4	5					
W LARCH		313.9	60.4	1	1	2					
TOTAL		<i>37.6</i>	<i>7.2</i>	<i>49</i>	<i>53</i>	<i>56</i>	<i>59</i>	<i>15</i>	<i>7</i>		
CL	68.1	COEFF	NET BF/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
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					

USES

PROJECT CATHERIN

DATE 5/21/2020

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
005	041	34	001	VP	70.00	28	147	S	W	
CL	68.1		COEFF		NET BF/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 CUFT FT/ACRE			# OF PLOTS REQ.		INF. POP.
SD:	1.0		VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DOUG 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 LARCH			317.7	61.1	18	47	76			
TOTAL			39.6	7.6	1,149	1,244	1,339	65	16	7

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

Spp	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+			
DF		PU	12	3		3	2.0		3													
DF		PU	14	0		0	.2		0	0												
DF		PU	16	4		4	2.8		3				1									
DF		DO 3M	12	1		1	.7			1												
DF		DO 3M	14	5	10.2	4	2.9			4												
DF		DO 3M	16	210	38.7	129	91.5			21	27	26	21	23	11							
DF		Totals		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 3M	12	0		0	1.4			0												
WF		DO 3M	16	35	34.2	23	96.0			1	2	3	5	6	5							
WF		Totals		36	33.2	24	9.0		1	1	2	3	5	6	5							
PP		PU	12	1		1	.7		1													
PP		PU	14	2		2	1.9		2													
PP		PU	15	2		2	2.0		2													
PP		PU	16	11		11	11.4		2	1	4	4										
PP		DO 3M	12	1	83.2	0	.2			0												
PP		DO 3M	14	3	31.2	2	2.5			2												
PP		DO 3M	16	137	44.4	76	81.4		2	6	14	14	17	13	9							
PP		Totals		156	40.1	93	34.5		8	9	18	19	17	13	9							
WL		PU	16	1		1	8.0		1													
WL		DO 3M	12	0		0	1.3			0												
WL		DO 3M	16	17	33.1	11	90.8			1	2	3	4	1								
WL		Totals		18	30.9	12	4.6		1	2	2	3	4	1								
Total		All Species		432	37.4	271	100.0		16	39	49	50	49	44	24							