



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Four Corners GNA
Sale KL-341-2021-GF8319-01

District: Northeast

Date: April 14, 2020

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$15,668.67	\$0.00	\$15,668.67
		Project Work:	\$0.00
		Advertised Value:	\$15,668.67



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Date: April 14, 2020

Timber Description

Location: T.4S., R.29E., Section 32 and 33.

Stand Stocking: 20%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
White Fir	12	0	90
Lodgepole Pine	6	0	90
Western Larch	10	0	90

Volume by Grade	Pulp	8"+	Camprun	Poles / Pilings	Total
White Fir	20	122	0	0	142
Lodgepole Pine	0	0	46	0	46
Western Larch	0	73	0	64	137
Total	20	195	46	64	325

Comments: Pond Values Used: Local Pond Values, March 2020
 Log Markets: La Grande, Elgin, Pilot Rock, Pendleton
 Other Costs (no Profit and Risk): Road Surface Replacement on 5300 road \$405.46
 Other Costs (with Profit and Risk to be added): None
 ROAD MAINTENANCE
 General Road Maintenance:
 Closed Road 0.9 mile x \$900.00 per mile = \$810.00; \$2.50/MBF



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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: \$405.46

Miles of Road

Road Maintenance: \$2.50

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

Hauling Costs

Species	\$ / MBF	Trips/Day	MBF / Load
White Fir	\$0.00	2.0	4.0
Lodgepole Pine	\$0.00	2.0	4.0
Western Larch	\$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
White Fir									
\$86.29	\$2.75	\$27.01	\$130.62	\$0.00	\$24.67	\$0.00	\$0.00	\$1.25	\$272.59
Lodgepole Pine									
\$86.29	\$2.75	\$27.01	\$130.62	\$0.00	\$24.67	\$0.00	\$0.00	\$1.25	\$272.59
Western Larch									
\$86.29	\$2.75	\$27.01	\$130.62	\$0.00	\$24.67	\$0.00	\$0.00	\$1.25	\$272.59

Specie	Amortization	Pond Value	Stumpage	Amortized
White Fir	\$0.00	\$285.92	\$13.33	\$0.00
Lodgepole Pine	\$0.00	\$300.00	\$27.41	\$0.00
Western Larch	\$0.00	\$363.94	\$91.35	\$0.00



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Amortized

Specie	MBF	Value	Total
White Fir	0	\$0.00	\$0.00
Lodgepole Pine	0	\$0.00	\$0.00
Western Larch	0	\$0.00	\$0.00

Unamortized

Specie	MBF	Value	Total
White Fir	142	\$13.33	\$1,892.86
Lodgepole Pine	46	\$27.41	\$1,260.86
Western Larch	137	\$91.35	\$12,514.95

Gross Timber Sale Value

Recovery: \$15,668.67

Prepared By: Mike Billman

Phone: 541-362-6760

Four Corners - GNA

KL-341-2021-GF8319-01
Cruise Report



SALE NAME: Four Corners - GNA

LEGAL DESCRIPTION:

Portions of Sections 32 and 33, T4S, R29E, W.M., Morrow County, Oregon.

BOUNDARY LINES:

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

ACREAGE:

Gross Sale Acreage:	66 Acres
Exclusion Acreage	0 Acres
Net Sale Acreage:	66 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	66

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	54.3	10.8	66

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	12.8	194	167	11
White fir & Other	12.4	3,499	2,146	142
Lodgepole pine	5.7	1,344	685	45
W Larch	9.7	3,016	1,919	127
	Total	8,054	4,918	325

TOTAL NET SAWLOG VOLUME: 325 MBF

TC PSTATS		PROJECT STATISTICS							PAGE	1	
USFS		PROJECT 4CORNERS							DATE	3/16/2020	
TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt	
04S	29E	33	002	VP		66.00	26	197	S	W	
				PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES			
TOTAL		26		197		7.6					
CRUISE		14		106		7.6		13,618		.8	
DBH COUNT											
REFOREST											
COUNT		12		91		7.6					
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	33	30.6	12.4	44	7.3	25.8	3,320	2,042	634	634	
W LARCH	32	48.4	9.7	45	7.9	24.6	3,016	1,919	577	577	
LP PINE	34	119.6	5.7	30	8.9	21.2	1,344	685	239	239	
E SPRUCE	5	5.7	8.6	25	0.8	2.3	179	104	39	39	
DOUG FIR	2	2.1	12.8	46	0.5	1.9	194	167	39	39	
TOTAL	<i>106</i>	<i>206.3</i>	<i>8.2</i>	<i>36</i>	<i>26.5</i>	<i>75.8</i>	<i>8,054</i>	<i>4,918</i>	<i>1,529</i>	<i>1,529</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		
CON FIR		84.6	14.7	106	124	142					
W LARCH		67.5	11.9	62	71	79					
LP PINE		184.6	31.6	15	22	29					
E SPRUCE		150.3	74.7	14	56	98					
DOUG FIR		74.1	69.4	32	105	178					
TOTAL		<i>113.0</i>	<i>11.0</i>	<i>64</i>	<i>72</i>	<i>80</i>	<i>510</i>	<i>128</i>	<i>57</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		
CON FIR		62.2	10.8	33	37	41					
W LARCH		61.3	10.8	19	21	24					
LP PINE		156.6	26.8	5	8	10					
E SPRUCE		110.4	54.9	8	17	27					
DOUG FIR		86.5	81.0	5	26	48					
TOTAL		<i>93.6</i>	<i>9.1</i>	<i>20</i>	<i>22</i>	<i>24</i>	<i>350</i>	<i>87</i>	<i>39</i>		
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		80.9	16.2	26	31	36					
W LARCH		101.6	20.3	39	48	58					
LP PINE		180.2	36.0	76	120	163					
E SPRUCE		289.8	58.0	2	6	9					
DOUG FIR		255.6	51.1	1	2	3					
TOTAL		<i>109.0</i>	<i>21.8</i>	<i>161</i>	<i>206</i>	<i>251</i>	<i>494</i>	<i>124</i>	<i>55</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		
CON FIR		81.5	16.3	22	26	30					
W LARCH		94.2	18.8	20	25	29					
LP PINE		124.2	24.8	16	21	26					
E SPRUCE		282.4	56.5	1	2	4					
DOUG FIR		255.6	51.1	1	2	3					
TOTAL		<i>30.8</i>	<i>6.2</i>	<i>71</i>	<i>76</i>	<i>80</i>	<i>40</i>	<i>10</i>	<i>4</i>		

PROJECT STATISTICS

USES

PROJECT **4CORNERS**

DATE 3/16/2020

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
04S	29E	33	002	VP	66.00	26	197	S	W

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		90.9	18.2	1,671	2,042	2,414			
W LARCH		102.5	20.5	1,526	1,919	2,313			
LP PINE		122.3	24.4	517	685	852			
E SPRUCE		305.1	61.0	41	104	168			
DOUG FIR		255.6	51.1	82	167	252			
TOTAL		<i>54.3</i>	<i>10.8</i>	<i>4,384</i>	<i>4,918</i>	<i>5,451</i>	<i>122</i>	<i>31</i>	<i>14</i>

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		89.9	18.0	520	634	748			
W LARCH		98.4	19.7	463	577	690			
LP PINE		111.7	22.3	186	239	293			
E SPRUCE		311.8	62.4	15	39	64			
DOUG FIR		255.6	51.1	19	39	60			
TOTAL		<i>50.9</i>	<i>10.2</i>	<i>1,373</i>	<i>1,529</i>	<i>1,684</i>	<i>108</i>	<i>27</i>	<i>12</i>

Log Stock Table - MBF

T04S R29E S33 TyVP 66.00

Project: 4CORNERS
Acres 66.00

Page 1
Date 3/16/2020
Time 4:18:46PM

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+			
WL		UT	16	1		1	.8		1													
WL		PU	12	2		2	1.2		2													
WL		PU	14	6	39.4	4	3.1		1	3												
WL		PU	16	3		3	2.3		3													
WL		DO 3M	16	166	36.9	105	82.8			36	38	21	9									
WL		PO	12	1	100.0																	
WL		PO	16	20	35.9	13	9.9		8	4												
WL		Totals		199	36.4	127	39.0			15	43	38	21	9								
WF		UT	12	1		1	.4		1													
WF		PU	12	3	46.6	2	1.2		2													
WF		PU	14	6	29.3	4	3.0		1	3												
WF		PU	16	1	100.0																	
WF		DO 3M	16	209	38.5	129	95.4		2	11	21	30	26	27	12							
WF		Totals		219	38.5	135	41.5		5	14	21	30	26	27	12							
LP		PU	14	0	100.0																	
LP		DO 3M	12	1	100.0																	
LP		DO 3M	16	48	39.6	29	64.8			6	5	16	2	1								
LP		PO	14	1		1	2.2		1													
LP		PO	15	2		2	4.6		2													
LP		PO	16	36	63.9	13	28.5		13													
LP		Totals		89	49.1	45	13.9		16	6	5	16	2	1								
DF		DO 3M	16	13	14.0	11	100.0			6		1		4								
DF		Totals		13	14.0	11	3.4			6		1		4								
ES		PU	12	0		0	4.7		0													
ES		DO 3M	16	11	42.9	7	95.3			1	1	1	4									
ES		Totals		12	41.8	7	2.1		0	1	1	1	4									
Total		All Species		532	38.9	325	100.0		36	71	65	68	41	32	12							