

Sale KL-341-2022-GF8517-01

District: Klamath/Lake Date: March 23, 2022

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$566,756.02	\$0.00	\$566,756.02
		Project Work:	(\$99,339.59)
		Advertised Value:	\$467,416.43

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Sale KL-341-2022-GF8517-01

District: Klamath/Lake Date: March 23, 2022

Timber Description

Location:

Stand Stocking: 20%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
White Fir	15	0	95
Ponderosa Pine	15	0	95
Lodgepole Pine	12	0	90

Volume by Grade	Camprun	6" - 11"	12"-15"	Total
White Fir	2,444	0	0	2,444
Ponderosa Pine	0	632	323	955
Lodgepole Pine	273	0	0	273
Total	2,717	632	323	3,672

Comments: Pond Values Used: Lakeview Pond Values, January 2022.

Log Markets: Klamath Falls and Medford.

Other Costs (no Profit & Risk):None

Other Costs (with Profit & Risk to be added): None

ROAD MAINTENANCE Move-in: \$400.00

General Road Maintenance: 3 miles x \$211.00 per mile x 1 bladings = \$633.00

Total Road Maintenance: \$1,033.00, \$0.28 per Mbf

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Sale KL-341-2022-GF8517-01

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Logging Conditions

Combination#: 1 White Fir 100.00%

Ponderosa Pine 100.00% Lodgepole Pine 100.00%

Logging System: Wheel Skidder Process: Feller Buncher

yarding distance: Medium (800 ft) downhill yarding: Yes

tree size: Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF

loads / day: 10 bd. ft / load: 4000

cost / mbf: \$94.92

machines: Log Loader (B)

Stroke Delimber (B)

Feller Buncher w/ Delimber

Tire Skidder

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Sale KL-341-2022-GF8517-01

District: Klamath/Lake Date: March 23, 2022

Logging Costs

Operating Seasons: 1.00

Profit Risk: 10%

Project Costs: \$99,339.59

Other Costs (P/R): \$0.00

Slash Disposal: \$0.00

Other Costs: \$0.00

Miles of Road

Road Maintenance:

\$0.28

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

Hauling Costs

Species	pecies \$ / MBF		MBF / Load	
White Fir	\$0.00	4.0	4.2	
Ponderosa Pine	\$0.00	4.0	4.0	
Lodgepole Pine	\$0.00	4.0	3.8	

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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									
\$94.92	\$0.29	\$1.20	\$75.00	\$0.00	\$17.14	\$0.00	\$0.00	\$0.00	\$188.55
Ponderosa	Ponderosa Pine								
\$94.92	\$0.29	\$1.20	\$78.75	\$0.00	\$17.52	\$0.00	\$0.00	\$0.00	\$192.68
Lodgepole Pine									
\$94.92	\$0.31	\$1.20	\$86.85	\$0.00	\$18.33	\$0.00	\$0.00	\$0.00	\$201.61

Specie	Amortization	Amortization Pond Value		Amortized
White Fir	\$0.00	\$360.00	\$171.45	\$0.00
Ponderosa Pine	\$0.00	\$313.53	\$120.85	\$0.00
Lodgepole Pine	\$0.00	\$320.00	\$118.39	\$0.00

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Summary

Amortized

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

Unamortized

Specie	MBF	Value	Total
White Fir	2,444	\$171.45	\$419,023.80
Ponderosa Pine	955	\$120.85	\$115,411.75
Lodgepole Pine	273	\$118.39	\$32,320.47

Gross Timber Sale Value

Recovery: \$566,756.02

Prepared By: Chris Weekly Phone: 541-883-5681

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Box – GNA KL-341-2022-GF8517-01 Cruise Report



SALE NAME: Box – GNA

LEGAL DESCRIPTION:

Located in Portions of Section 25, Township 38 South, Range 20 East, and Portions of Sections 30 and 31, Township 38 South, Range 21 East, Willamette Meridian, Lake County, Oregon.

BOUNDARY LINES:

Unit boundaries are posted with "Timber Sale Boundary" signs, marked with fluorescent orange paint and fluorescent orange flagging. Boundaries following roads may not be marked.

ACREAGE:

Net Sale Acreage: 488 Acres Optional Unit Acreage: 12 Acres Gross Sale Acreage: 500 Acres

Mapping was accomplished using a handheld GPS with the data run using ArcMap 10.6.

TREATMENT:

The Timber Sale is a purchaser select, partial cut harvest.

CRUISE METHOD:

Variable plot cruise with a ratio of two count plots for every measure plot. Fixed plot cruise for all sub-merchantable material (5.0" to 9.0") DBH for all Areas.

BASAL AREA FACTOR:

All plots were cruised with either a 13.61 or 20 Basal Area Factor. Prism factor was determined based on conditions on and around the cruised plot.

PLOT DESIGNATION:

Plot centers were established at every plot with pink flag wire stakes with the corresponding plot number. Blue and white stripped flagging was attached to the nearest available tree branch.

SAMPLE SIZE CALCULATIONS:

57 plots were taken. 18 measured and 39 count.

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:

5.0" DBH.

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:

CV%	SE%	ACRES	
64.5	8.5	488	

TIMBER DESCRIPTION

RESIDUAL STAND CONDITION:

Cruise resulted in an average basal area across the Timber Sale Area of 75 sqft/acre well above the targeted average of 40 sqft/acre. The large number of constrained trees (greater than 21" DBH) make it unlikely that the target basal area can be achieved stand wide.

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	Acres	Gross Vol/Acre (bf)	Net Vol/Acre (bf)	Net Sale Vol (Mbf)
White fir	14.5	488	5,147	5,009	2,444
Ponderosa pine	14.5	488	2,025	1,956	955
Lodgepole pine	12.2	488	559	559	273
	Total		7,731	7,524	3,672

Optional Unit

Species	Ave. DBH	Acres	Gross Vol/Acre (bf)	Net Vol/Acre (bf)	Net Sale Vol (Mbf)
White fir	14.5	12	5,147	5,009	60
Ponderosa pine	14.5	12	2,025	1,956	23
Lodgepole pine	12.2	12	559	559	7
	Total		7,731	7,524	90

TOTAL NET SAWLOG VOLUME: 3,672 Mbf (3,762 Mbf with Optional Area)

GREEN PULP VOLUME:

This volume was obtained by combining material from the fixed plot cruise (5.0" - 9.0" DBH) with material from the variable plot cruise.

All material was graded green pulp, see grade table for minimum standards.

FIXED PLOT CRUISE

Species	Acres	Vol/Acre (bf)	Sale Vol (Mbf)		
White fir	488	338	165		
Ponderosa pine	488	88	43		
Lodgepole pine	488	79	39		
Western Juniper	488	9	4		
Total		514	251		

VARIABLE PLOT CRUISE

Species	Acres	Vol/Acre (bf)	Sale Vol (Mbf)
White fir	488	129	63
Ponderosa pine	488	283	138
Western Juniper	488	24	12
Total		436	213

TOTAL GREEN PULP VOLUME: 464 Mbf

TC TSTA	ATS				CI		ICC			PAGE	1
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				1	TREES		ESTIMATED FOTAL		PERCENT SAMPLE		
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COUN		38	186		4.9						
BLAN	IKS	1									
100 %											
				STAN	D SUMM	ARY					
		SAMPLE TREES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
WHIT	EF	66	54.1	14.5	34	16.2	61.8	5,276	5,138	1,233	1,233
P PINI		36	30.6	14.5	34	9.2	35.0	2,308	2,239	571	571
LP PIN	NE	7	9.5	12.2	29	2.2	7.7	559	559	134	134
OC TOTA	Λ.T	2 111	2.4 96.6	9.0 14.2	18 33	0.4 28.0	1.1 <i>105.5</i>	24 8,167	24 7,960	7 1,946	7 1,946
1018	<u>XL</u>	111	90.0	14.2	33	28.0	105.5	0,107	7,900	1,940	1,940
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P PINI LP PIN		64.1 58.8	10.7 23.9		87 50	97 66	108 81				
OC	· · L	30.0	23.9		50	00	01				
TOTA	AL	91.4	8.7		112	123	133		333	83	37
CL:	68.1 %	COEFF			SAMPLE	TREES -	CF	i	OF TREES R	EQ.	INF. POP.
SD:	1.0	VAR.%	S.E.%	LC		AVG	HIGH		5	10	15
WHIT: P PINI		81.0 58.3	10.0 9.7		30 22	33 24	36 27				
LP PIN		44.0	17.9		13	24 16	18				
OC											
TOTA	AL	79.7	7.6		27	29	31		254	63	28
CL:	68.1 %	COEFF			TREES/A	CRE		i	OF PLOTS R	EQ.	INF. POP.
SD:		VAR.%	S.E.%	LC		AVG	HIGH		5	10	15
WHIT		116.4	15.4		46	54	62				
P PINI LP PIN		105.6 266.6	14.0 35.3		26 6	31 9	35 13				
OC	.,	558.7	73.9		1	2	4				
TOTA	AL	56.3	7.5		89	97	104		127	32	14
CL:	68.1 %	COEFF			BASAL A	REA/ACI	RE	i	OF PLOTS R	EQ.	INF. POP.
	1.0	VAR.%	S.E.%	LC		AVG	HIGH		5	10	15
WHIT		112.9	14.9		53	62 25	71				
P PINI LP PIN		102.5 267.1	13.6 35.3		30 5	35 8	40 10				
OC		558.7	73.9		0	1	2				
TOTA	AL	56.1	7.4		98	106	113		126	31	14
CL:	68.1 %	COEFF			NET BF/			-	# OF PLOTS R	EQ.	INF. POP.
SD:		VAR.%	S.E.%		OW	AVG	HIGH		5	10	15
WHIT: P PINI		117.4 104.7	15.5 13.9		4,340 1,928	5,138 2,239	5,937 2,549				
LP PIN		266.0	35.2		362	2,239 559	2,349 756				
OC		558.7	73.9		6	24	41				

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P PIN	Е	103	3.1	13.6	4	193	571	649						
LP PI	NE	266	5.8	35.3		87	134	181						
OC		558	8.7	73.9		2	7	12						
TOTA	AL	62	2.3	8.2	1,7	85	1,946	2,106		155	39	17		

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PP	CR CF	: ;	87	3.4	2,025	1,956	955		66	34		34	17	49	22	9	71	0.81	
PP	CR GI	,	13		283	283	138	25	75			92	8		16	6	19	0.36	
PP	Totals		28	3.0	2,308	2,239	1,092	3	67	30		41	16	43	20	8	53	0.69	
LP	CR CF	1	00		559	559	273		100			36	20	44	22	9	59	0.65	
LP	Totals		7		559	559	273		100			36	20	44	22	9	59	0.65	
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Туре То	otals			2.5	8,167	7,960	3,884	2	68	24	6	25	18	57	22	8	67	0.75	1

тс т	LOGSTV	В					g Stocl	k Tabl	le - M BOX										
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