

Sale KL-341-2021-W00675-01

District: Klamath/Lake Date: March 11, 2021

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$129,645.87	\$0.00	\$129,645.87
		Project Work:	(\$39,004.11)
		Advertised Value:	\$90,641.76



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Timber Description

Location:

Stand Stocking: 20%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Sugar Pine	31	0	95
Ponderosa Pine	16	0	95
Lodgepole Pine	10	0	90

Volume by Grade	6" - 11"	12"-15"	16"+	Camprun	Total
Sugar Pine	20	20	138	0	178
Ponderosa Pine	214	143	229	0	586
Lodgepole Pine	0	0	0	165	165
Total	234	163	367	165	929

Comments: Pond Values Used: Local Pond Values, November 2020.

Log Markets: Klamath Falls and Medford.

Other Costs (no Profit & Risk): The permitee will deposit the \$3,699.23 with the Forest Service on or before commencing haul. Once road maintenance is completed \$2,492.86 will be refunded to the purchaser.

Fees: USFS Road Use Fee = \$1,206.37

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

ROAD MAINTENANCE Move-in: \$500.00

General Road Maintenance: 5.0 miles x \$211.00 per mile x 1 bladings = \$1,055.00

Total Road Maintenance: \$1,555.00, \$1.67 per Mbf



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Logging Conditions

Combination#: 1 Ponderosa Pine 80.00%

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

Combination#: 2 Sugar Pine 100.00%

Ponderosa Pine 20.00%

Logging System: Track Skidder Process: Manual Falling/Delimbing

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

tree size: Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF

loads / day: 10 bd. ft / load: 4200

cost / mbf: \$105.02

machines: Log Loader (B)

Track Skidder



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Logging Costs

Operating Seasons: 1.00

Profit Risk: 10%

Project Costs: \$39,004.11

Other Costs (P/R): \$0.00

Slash Disposal: \$0.00

Other Costs: \$1,206.37

Miles of Road

Road Maintenance:

\$1.67

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

Hauling Costs

Species	\$/MBF	Trips/Day	MBF / Load	
Sugar Pine	\$0.00	4.0	4.2	
Ponderosa Pine	\$0.00	4.0	4.2	
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
Sugar Pine	9								
\$105.02	\$1.75	\$4.72	\$59.38	\$0.00	\$17.09	\$0.00	\$2.00	\$1.30	\$191.26
Ponderosa	Pine								
\$96.94	\$1.75	\$4.72	\$59.38	\$0.00	\$16.28	\$0.00	\$2.00	\$1.30	\$182.37
Lodgepole	Pine								
\$94.92	\$1.84	\$4.72	\$68.75	\$0.00	\$17.02	\$0.00	\$2.00	\$1.30	\$190.55

Specie	Amortization	Pond Value	Stumpage	Amortized
Sugar Pine	\$0.00	\$338.76	\$147.50	\$0.00
Ponderosa Pine	\$0.00	\$319.54	\$137.17	\$0.00
Lodgepole Pine	\$0.00	\$330.00	\$139.45	\$0.00



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Summary

Amortized

Specie	MBF	Value	Total
Sugar Pine	0	\$0.00	\$0.00
Ponderosa Pine	0	\$0.00	\$0.00
Lodgepole Pine	0	\$0.00	\$0.00

Unamortized

Specie	MBF	Value	Total
Sugar Pine	178	\$147.50	\$26,255.00
Ponderosa Pine	586	\$137.17	\$80,381.62
Lodgepole Pine	165	\$139.45	\$23,009.25

Gross Timber Sale Value

Recovery: \$129,645.87

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

Other Costs

Road Maintenance					
Move-in cost (grader):	\$500.00				
Number of Miles to be Bladed:	5.0				
Number of Bladings:	1				
Total Miles	5.0				
Miles / Hour for equipment:	0.5				
Cost / Hour (grader with operator):	\$105.50				
Total Grading Hours:	10				
Grading Cost:	\$1,055.00				
	\$1,555.00				
Total Cost:	\$1,555.00				
Cost / Mbf:	\$1.67				

Total:	929 Mbf				Total Loads	225
SP	178 Mbf	19.2%	Average Load	4.2 Mbf	No. of Loads	42
LP	165 Mbf	17.8%	Average Load	3.8 Mbf	No. of Loads	43
PP	586 Mbf	63.1%	Average Load	4.2 Mbf	No. of Loads	140

Assume: 4 Trucks/Day
4 Trips/Day
16 Loads per Day
14 Hauling Days

Project Costs

Project #1 Road Improvement

Move in Cost Dozer: \$500.00

Improvement

	Points	Distance (ft)	Feet/Hour	Hours	Cost/Hour	Cost
Open/Clear/Shape	A to B	3097	1000	3.1	\$132.50	\$410.35
Open/Clear/Shape	D to E	560	1000	0.6	\$132.50	\$74.20
Open/Clear/Shape	H to I	519	1000	0.5	\$132.50	\$68.77
Open/Clear/Shape	F to G	855	1000	0.9	\$132.50	\$113.29
Open/Clear/Shape	С			1.0	\$132.50	\$132.50
	Total	5031			Total	<u>\$799.11</u>

Road Closures

4 Number of Closure Points - Point A, D, H, and F

\$132.50 Cost per Hour (Cat)

\$530.00 Total \$0.57 per Mbf

Move in Costs	\$500.00
Improvement Costs	\$799.11
Road Closures	\$530.00
Project #1 Total	\$1,829.11
per MBF	\$1.97

Project Costs

Project #2 Fell, Skid, and Pile Submerchantable Material

Total Sub-Sawlog Volume: 291 MBF

Fell and Skid/MBF: \$65.00

Sort/MBF: \$10.00

Total \$21,825.00

per MBF \$23.49

Landing Piling

Number of Landings: 24

Shovel Time: 1 Hour per Landing Cost per Hour: \$125.00 Total Cost \$3,000.00

Cat Time: 1 Hour per Landing Cost per Hour: \$132.50 Total Cost \$3,180.00

Total \$6,180.00 per MBF \$6.65

Project #2 Summary

Fell, Skid, Pile Submerch. \$21,825.00

Landing Piling \$6,180.00

Total Cost \$28,005.00

per Mbf \$30.15

Project Costs

Project #3 Slash and Brush Piling

Equipment Move In: \$500.00

Acres to be Piled 51
Hours per Acre 2
Cost per Hour \$85.00
Cost of Piling \$8,670.00
Total Cost \$9,170.00

per Mbf \$9.87

Summary

Project No. 1 - Road Improvement \$1,829.11

Project No. 2 - Fell, Skid, and Pile Submerch \$28,005.00

Project No.3- Slash and Brush Piling \$9,170.00

Total Cost \$39,004.11 per Mbf \$41.99

Buck Tooth

KL-341-2021-W00675-01 Cruise Report



SALE NAME: Buck Tooth

LEGAL DESCRIPTION:

Township 27 South, Range 8 East, Portion of Section 16, and Township 27 South, Range 8 East, Portions of Sections 32, Willamette Meridian, Klamath County, Oregon.

ACREAGE:

The timber sale is two Timber Sale Units. The total Timber Sale Area is 481 acres. Unit 1 is 155 acres and located on the west side of Highway 97. Unit 2 is 319 acres and is located on the east side of Highway 97.

Acreage was determined using data collected using GPS and compiled using ArcMap.

TREATMENT:

The timber sale is a selection cut based on prescription by description and is a purchaser select cut with requirements listed in contract Section 2320, "Thinning Specifications".

CRUISE METHOD:

Merchantable volume on the timber sale was sampled using a variable plot cruise with a ratio of one measure plot for every count plot. Submerchantable material (5.0"to 8.0" dbh) was measured with a 1/50 acre fixed plot.

BASAL AREA FACTOR:

Stand	BAF	Type Acreage
Area	10 BAF	467 acres

FIXED PLOT:

Stand	Radius	Type Acreage
Area	16.6	467

PLOT DESIGNATION:

Plot centers were established at every plot with pin flags and candy stripe blue and white flagging attached to the nearest available tree branch listing the plot number.

SAMPLE SIZE:

Unit 1: 34 Plots Unit 2: 39 Plots

Measurements and Grading:

- DBH and Height were measured on all "in" trees for measure plots.
- Submerch volume and sawlog volume cruised.
- See attached species and grade tables for minimum requirements.
- 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:

8" 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 form factor.

FORM POINT:

All trees were sighted at D.B.H.

VOLUME COMPUTATION:

All cruise data was compiled using SuperACE.

FINAL CRUISE RESULTS:

STAND	CV%	SE%	Acres
Combined Units	137.4	16.1	467

SAMPLE SIZE CALCULATIONS:

CV%	DESIRED SE%	ACRES
137.4	16.1	467

Number of Plots =
$$\frac{T^2C^2}{A^2}$$

C = Coefficient of Variation in Percent (Taken from inventory data)

T = Number of Standard Errors

A = Desired Sampling Error for a sale of this size and value

N =
$$\frac{(1)^2(137.4)^2}{(16.1)^2}$$
 = 73 plots

Measurements and Grading:

- Ratio of a count plot for every measure plot.
- DBH and Height were measured on all "in" trees for measure plots.
- Pulp volume and sawlog volume cruised.
- See attached species and grade tables for minimum requirements.
- All trees were graded using the segment system.

TIMBER DESCRIPTION

SAWLOG VOLUME:

All material graded camprun. See grade table for minimum standards.

Unit 1

Species	Average DBH	Gross Volume per acre (bf/acre)	Net Volume per acre (bf/acre)	Gross Volume per unit (Mbf)	Net Volume per unit (Mbf)	
Ponderosa pine	16.0	965	938	150	145	
Sugar pine 31.0		546	531	85	82	
Lodgepole pine 9.7		157	157	24	24	
Combined	15.6	1,668	1,626	259	251	

Unit 2

Species	Average DBH	Gross Volume per acre (bf/acre)	Net Volume per acre (bf/acre)	Gross Volume per unit (Mbf)	Net Volume per unit (Mbf)
Ponderosa pine	16.8	1,397	1,381	446	441
Lodgepole pine	9.9	441	441	141	141
Sugar pine	34.8	301	301	96	96
Combined	13.3	2,139	2,123	683	678

TOTAL SAWLOG VOLUME

Species	Average DBH	Gross Volume (Mbf)	Net Volume (Mbf)
Ponderosa pine	16.4	596	586
Lodgepole pine	9.8	165	165
Sugar pine	31.8	181	178
Combined	14.3	942	929

TOTAL NET SAWLOG VOLUME: 929 MBF

GREEN PULP VOLUME

This volume was obtained by combining the green pulp volume from the variable plot cruise with the fixed plot cruise $(5.0" - 8.0" \, \text{DBH})$. All material was graded green pulp, see grade table for minimum standards.

Cruise	Volume per Acre (bf/ac)	Gross Volume (Mbf)
Variable	113	53
Fixed	510	238
Total	623	291

TOTAL GREEN PULP VOLUME: 291 MBF

	ΓATS					OJECT OJECT		STICS OTH			PAGE DATE	1 2/10/2021
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027	008	32	WEST		VARI	TDEEC		ESTIMATED		ERCENT		
		ī	PLOTS	TREES		TREES PER PLOT		TOTAL TREES		AMPLE TREES		
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CRUI DBH			19	45		2.4		8,528		.5		
COUL BLAN 100 %	NKS		26 28	84		3.2						
					STA	ND SUMM	IARY					
			MPLE FREES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
P PIN	IE		26	7.6	16.5	39	2.8	11.4	1,275	1,256	274	274
LP PI			15	9.9	9.8	27	1.7	5.3	440	440	102	
SUG :			4 45	.4 18.0	32.3 13.9	72 33	0.4 5.1	2.3 19.0	381 2,096	376 2,072	71 <i>447</i>	
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LP PI	INE		61.1	16.3		40	48	56				
SUG			54.9	31.4		621	905	1,189				_
TOT			126.3	18.8		245	302	359		637	159	7.
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LP PI			48.4	12.9		10	11	12				
SUG	PINE		40.5	23.1		136	177	217				
TOT	AL		113.2	16.9		51	61	71		512	128	5
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TC PST	PROJECT STATISTICS PROJECT BTOOTH									PAGE DATE	2 2/10/2021
TWP	RGE	SC	TRACT	TYP	E	A	CRES	PLOTS	TREES	CuFt	BdFt
027 027	008 008	16 32	EAST WEST	VAR VAR			474.00	73	136	1	Е
CL	68.1		COEFF		NET C	UFT FT/A	CRE		# OF PLOT	S REQ.	INF. POP.
SD:	1.00		VAR.	S.E.%	LOW	AVG	HIGH		5	10	15
SUG PINE 276.0			276.0	32.3	48	71	94			•	
TOTA	AL		129.3	15.1	380	447	515		668	167	74

TO	T027 R008 S16 TyVARC 319.00					Project:			BT	втоотн							Page		1	
TO	027 R00	8 S32 Ty	VARI	1	155.00		Acres	Acres 474.00							Date Time		2/10/2021 9:51:34AM			
%									Perc	ent of N	let Boa	d Foot	Volume				Avera	age Log	g	Logs
		o Gr	Net	Bd. Ft	per Acre		Total			Log Sca	ıle Dia.			Log I	ength	Ln	Dia	Bd	CF/	Per
Spp	T	rt ad	BdFt	Def%	Gross	Net	Net MBF		4-5	6-11	12-16	17+	12-20	21-30	31-35 36-99	Ft	In	Ft	Lf	/Acre
PP	1	CR	98	1.5	1,256	1,237		586		37	33	30	13	19	68	25	10	129	1.12	
PP	1	GP	2		19	19		9		100			100			15	7	20	0.33	
PP	Totals		61	1.5	1,275	1,256		595		38	33	30	15	19	67	24	10	119	1.07	1
SP	1	CR	100	1.2	381	376		178		11	11	78	3	3	94	29	15	399	2.63	
SP	Totals		18	1.2	381	376		178		11	11	78	3	3	94	29	15	399	2.63	
LP	1	CR	79		348	348		165		100			15	30	55	27	7	53	0.45	
LP	1	GP	21		92	92		44	10	90			100			14	6	20	0.36	
ĹΡ	Totals		21		440	440		209	2	98			33	23	44	21	7	40	0.43	:
Tota	ıls			1.1	2,096	2,072		982	0	46	22	32	17	17	67	23	9	92	0.86	

TC	PLO	GSTV	В				Log Stock Table - MBF											
	T027 R008 S16 TyVAR T027 R008 S32 TyVAR				319.00 155.00			Proje Acres							Page 1 Date 2/10/2021 Time 9:51:33AM			
	s			Log	Gross	Def	Net	%	Net Volume by Scaling Diameter in Inches									
Spp	T	rt	de	Len	MBF	%	MBF	Spc	2-3 4-5	6-7	8-9	10-11 12-13	14-15	16-19	20-23	24-29	30-39	40+
PP		1	CR	. 17	78		78	13.2		19	36	8			16			
PP		1	CR	. 27	112	1.2	111	18.6			28	35 35	12					
PP		1	CR	. 34	405	1.9	397	66.7			54	34 60	35	136	77			
PP		1	GP	15	9		9	1.5		9								
PP			Totals	;	604	1.5	595	60.6		28	118	78 95	48	136	93			
SP		1	CR	. 17	6		6	3.4			2	4						
SP		1	CR	. 27	5		5	2.9			5							
SP		1	CR	. 34	169	1.3	167	93.8				9	20	57	22	59		
SP			Totals	3	181	1.2	178	18.2			7	13	20	57	22	59		
LP		1	CR	. 17	25		25	12.1		13	12							
LP		1	CR	. 27	49		49	23.3		16	33							
LP		1	CR	. 34	91		91	43.6		19	72							
LP		1	GP	10	4		4	2.1	4									
LP		1	GP	11	9		9	4.2			9							
LP		1	GP	14	5		5	2.4		2	2							
LP		1	GP	15	11		11	5.3		11								
LP		1	GP	18	14		14	6.9		14								
LP		Totals			209		209	21.2	4	75	129							
Total		All Species			994	1.1	982	100.0	4	104	254	91 95	67	193	116	59		





