

Sale KL-341-2024-W01029-01

District: Klamath/Lake Date: February 14, 2024

## **Cost Summary**

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$32,226.24	\$0.00	\$32,226.24
		Project Work:	(\$4,947.35)
		Advertised Value:	\$27,278.89



## Sale KL-341-2024-W01029-01

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## **Timber Description**

#### Location:

Stand Stocking: 20%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
White Fir	15	0	98
Sugar Pine	22	0	95
Ponderosa Pine	20	0	98

Volume by Grade	28	3S & 4S 6"- 11"	6" - 11"	12"-15"	16"+	Total
White Fir	144	156	0	0	0	300
Sugar Pine	0	0	21	13	34	68
Ponderosa Pine	0	0	126	117	49	292
Total	144	156	147	130	83	660

**Comments:** Pond Values Used: Local Pond Values, December 2023

Pulp Price: \$0.25 per ton

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: 5.5 miles x \$270 per mile x 1 bladings = \$1,485.00

Total Road Maintenance: \$1,885.00, \$2.86 per Mbf

2/21/24



## Sale KL-341-2024-W01029-01

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**Logging Conditions** 

Combination#: 1 White Fir 76.00%

Sugar Pine 13.00% Ponderosa Pine 32.00%

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: 13 bd. ft / load: 4300

cost / mbf: \$178.90

machines: Log Loader (B)

Stroke Delimber (B) Feller Buncher w/ Delimber

Tire Skidder

Combination#: 2 White Fir 24.00%

Sugar Pine 87.00% Ponderosa Pine 68.00%

Logging System: Track Skidder Process: Manual Falling/Delimbing

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

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

loads / day: 12 bd. ft / load: 4500

**cost / mbf**: \$185.19

machines: Log Loader (B)

Track Skidder



## Sale KL-341-2024-W01029-01

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## **Logging Costs**

**Operating Seasons:** 1.00

Profit Risk: 10%

**Project Costs:** \$4,947.35

Other Costs (P/R): \$0.00

Slash Disposal: \$0.00 Other Costs: \$0.00

## Miles of Road

Road Maintenance:

\$2.86

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	3.0	4.2
Sugar Pine	\$0.00	4.0	4.2
Ponderosa Pine	\$0.00	4.0	4.3



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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									
\$180.41	\$2.92	\$6.65	\$101.19	\$0.00	\$29.12	\$0.00	\$2.00	\$0.00	\$322.29
Sugar Pine	)								
\$184.37	\$3.00	\$6.65	\$78.12	\$0.00	\$27.21	\$0.00	\$2.00	\$0.00	\$301.35
Ponderosa	Pine								
\$183.18	\$2.92	\$6.65	\$74.12	\$0.00	\$26.69	\$0.00	\$2.00	\$0.00	\$295.56

Specie	Amortization	Pond Value	Stumpage	Amortized
White Fir	\$0.00	\$427.20	\$104.91	\$0.00
Sugar Pine	\$0.00	\$308.82	\$7.47	\$0.00
Ponderosa Pine	\$0.00	\$296.40	\$0.84	\$0.00



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## **Summary**

### Amortized

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

## Unamortized

Specie	MBF	Value	Total
White Fir	300	\$104.91	\$31,473.00
Sugar Pine	68	\$7.47	\$507.96
Ponderosa Pine	292	\$0.84	\$245.28

## **Gross Timber Sale Value**

**Recovery:** \$32,226.24

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

## Shambolic KL-341-2024-W01029-01

## Other Costs

		R	oad Maintenance			
	Move-in cost (grader):	\$400.0	)			
Numb	er of Miles to be Bladed:	5.	5			
	Number of Bladings:		1			
	Total Miles:	5.	5			
M	iles/Hour for Equipment:	0.	5			
Cost/H	our (grader with operator):	\$135.0	)			
	<b>Total Grading Hours:</b>	1	1			
	Grading Cost:	\$1,485.0	<u>)</u>			
	Total Cost:	\$1,885.0	0			
	Cost/Mbf:	\$2.8	<del></del>			
WF	300 Mbf	45%	Average Load	4.0 Mbf	No. of Loads	75
PP	292 Mbf	44%	Average Load	4.0 Mbf	No. of Loads	73
SP	68 Mbf	10%	Average Load	4.0 Mbf	No. of Loads	17
Total:	660 Mbf				Total Loads	165
Assume:	4 Trucks/Day					
	3 Trips/Day					
	12 Loads per Day					

14 Hauling Days

## Shambolic KL-341-2024-W01029-01

## **Project Costs**

## Project #1 Road Improvement

### Improvement

Move in Cost Cat: \$500

	Points	Distance(ft)	Feet/Hour	Hours	Cost/Hour	Cost
Open/Clear/Shape	A to B	4,271	1000	4.27	\$150.00	\$640.65
Open/Clear/Shape	C to D	2,378	1000	2.38	\$150.00	\$356.70
	Total	6,649		6.65		\$997.35
		Move In Costs		\$500.00		
	Impr	ovement Cost		\$997.35		
	Pro	oject # 1 Total _		\$1,497.35		
		per Mbf		\$2.27		

## Project #2 Slash Piling

## Landing Slash Piling

Number of Landings: 7

Shovel Time: 1 Hour per Landing Cost per Hour: \$150.00 Total Cost \$1,050.00 Cat Time: 1 Hour per Landing Cost per Hour: \$150.00 Total Cost \$1,050.00

**Total** \$2,100.00 per MBF \$3.18

## Shambolic KL-341-2024-W01029-01

## **Project Costs**

## Project #3 Road Closures and Waterbarring

### **Road Closures**

1 Number of Closure Points A \$150.00 Cost per Hour (Cat)

\$150.00 Total \$0.23 per Mbf

## Skid Trail Waterbarring

4 Number of Landings

Hours per Landing

\$150.00 Cost per Hour (Cat)

\$1,200.00 Total

2

\$1.82 per Mbf

### Project #3 Summary

Road Closures: \$150.00

Waterbarring: \$1,200.00

Total: \$1,350.00

per Mbf: \$2.05

### Cost Summary All Projects

Project No.1 - Road Improvement \$1,497.35

Project No.2 - Slash Piling \$2,100.00

Project No.3 - Road Closure and Waterbarring \$1,350.00

Total Cost \$4,947.35

per Mbf \$7.50

## Shambolic KL-341-2024-W01029-01 Cruise Report



**SALE NAME:** Shambolic

## **LEGAL DESCRIPTION:**

Located in Section(s) 5, 6, 7 and 8 of T33S, R7E, Willamette Meridian, Klamath County, Oregon

### **BOUNDARY LINES:**

Unit boundaries are unmarked.

## **ACREAGE**:

Gross Sale Acreage: 160 Acres

Exclusion Acreage: 22 Acres

Net Sale Acreage: 138 Acres

Mapping was accomplished using Avenza pdf Maps with the data processed through ArcMap.

## **TREATMENT**:

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

### **CRUISE METHOD:**

Variable plot cruise with a ratio of one count plot for every measure plot.

### **BASAL AREA FACTOR:**

A basal area factor of 10 was used for all variable cruise plots.

### **PLOT DESIGNATION:**

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

## **SAMPLE SIZE CALCULATIONS:**

AREA	CV%	DESIRED SE%	ACRES
Area 1	81%	12%	138

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

$$N = (1)^2(81)^2 = 45 \text{ plots}$$
  
 $(12)^2$ 

Measurements and Grading:

- Ratio of two count plot for every measure plot.
- DBH and Height were measured on all "in" trees for measure plots.
- Pulp volume and sawlog volume cruised.
- All trees were graded using the segment system.
- Nested fixed plot cruise for all submerchantable material (5" to 9" DBH).

### 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.

### **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
46.8	7.1	138

## **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	Acres	Gross Vol/Acre (bf)	Net Vol/Acre (bf)	Net Sale Vol (Mbf)
White fir	15.0	138	2,189	2,175	300
Ponderosa pine	19.7	138	2,164	2,113	292
Sugar pine	22.1	138	497	493	68
		Total	4,849	4,781	660

**TOTAL NET SAWLOG VOLUME: 660 MBF** 

TC	PLO	GSTVI	3					Log S	Stock	Table -	MBF									
T033 R007 S08 TyORIG 138.00					Proje Acres		SHA		3.00					Page Date Time	2/1	1 5/2024 37:09P				
	s	So (	Gr	Log	Gross	Def	Net	%		1	let Volu	me by S	caling D	iamete	r in Inch	es				
Spp	T	rt o	le	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+
WF		CR	CR	17	25		25	8.4			4	20		1						
WF		CR	CR	27	18		18	6.1				5	6	7						
WF		CR	CR	34	259		257	85.6			24	60	37	57	51	28				
WF		,	Totals		302		300	45.5			28	85	43	65	51	28				
PP		CR	CR	16	17		17	5.7			6	2	3	1			4			
PP		CR	CR	20	5		5	1.8			1	3	1							
PP		CR	CR	24	10		10	3.5			2	8								
PP		CR	CR	28	7		7	2.2			3	4								
PP		CR	CR	32	260	2.7	253	86.8			2	19	71	88	28	44				
PP			Totals		299	2.4	292	44.2			14	36	76	89	28	44	4			
SP		CR	CR	16	8		8	11.6			1	1			3	3				

1

4

3

8

126

160

5 30

8 33

86

105

4

1

10

14

135

1

43

1.4

2.0

7.9

77.1

10.3

100.0

53

68

660

SP

SP

SP

SP

SP

Total

CR CR

CR CR

CR CR

CR CR

Totals

All Species

20

24

28

32

5

53

69

669

1.4

TC PST	TATS		PAGE DATE	1 2/15/2024									
TWP RGE		SC	TRACT	ŗ	ГҮРЕ		AC	RES	PLOTS	TREES	CuFt	BdFt	
033 007		08	226	(	ORIG			138.00	43	176	1	E	
						TREES		ESTIMATED TOTAL		PERCENT SAMPLE			
		F	PLOTS	TREES		PER PLOT		TREES		TREES			
TOTA			43	176		4.1							
	COUNT DREST		22	91		4.1		3,450		2.6			
COUL BLAN 100 %	NKS		21	85		4.0							
					STA	ND SUMM	ARY						
			MPLE TREES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC	
P PIN			45	8.7	19.7	56	4.1	18.4	2,164	2,113	453	453	
WHIT			35 11	14.7 1.7	15.0 22.1	45 51	4.7 0.9	18.1 4.4	2,189	2,175 493	487 106	487 106	
TOT			91	25.0	17.3	51 49	9.8	4.4	497 4.849	493 4,781	1.046	1.046	
CON	EIDENC	E I IMI	ITS OF THE	E SAMDLE						· ·		,	
CON					VOLUME	WILL BE V	VITHIN TI	HE SAMPLE E	RROR				
CL	68.1		COEFF			SAMPLI	E TREES -	·BF	#	OF TREES R	EQ.	INF. POP.	
SD:	1.0		VAR.%	S.E.%	L	OW	AVG	HIGH		5	10	15	
P PIN			56.9	8.5		263	288	312					
WHIT SUG			80.2 52.0	13.5 16.4		185 317	214 379	243 441					
TOT			65.5	6.9		252	271	289		171	43	19	
CL	68.1		COEFF			SAMPLI	E TREES -	· CF	#	OF TREES R	EO.	INF. POP.	
SD:	1.0		VAR.%	S.E.%	LOW		AVG	HIGH		5		15	
P PIN	ΙE		47.1	7.0		56	60	65					
WHIT			71.6	12.1		40	46	52					
SUG			46.5	14.7		68	80	92		121	22	1.5	
TOT	AL		57.3	6.0		54	57	61		131	33	15	
CL	68.1		COEFF		_	TREES/A			#	OF PLOTS R		INF. POP.	
SD:	1.0		VAR.%	S.E.%	I	OW 7	AVG	HIGH		5	10	15	
P PIN			88.5 99.5	13.5 15.2		12	9 15	10 17					
SUG			202.6	30.9		1	2	2					
TOT	AL		52.7	8.0		23	25	27		111	28	12	
CL	68.1	68.1 COEFF				BASAL A	AREA/AC	RE	# OF PLOTS REQ. INF. 1				
SD:	1.0		VAR.%	S.E.%	I	OW	AVG	HIGH		5	10	15	
P PIN			83.1	12.7		16	18	21					
WHIT			97.2	14.8		15	18	21					
SUG :			199.4 <i>41</i> .2	30.4 6.3		3 38	4 41	6 44		68	17	0	
				0.3				44				8	
CL 68.1			COEFF	C E o/		NET BF/		шен	#	EQ.	INF. POP.		
SD:	1.0		VAR.% 83.1	S.E.% 12.7	1	OW 1,845	AVG 2,113	2,380		5	10	15	
P PINE WHITE F			103.7	15.8		1,831	2,175	2,519					
WHI			214.4	32.7		332	493	655					
SUG			46.8	7.1		4,440	4,781	5,122		88	22	10	
	AL												
SUG	68.1		COEFF			NET CU	FT FT/AC	RE	#	OF PLOTS R	EQ.	INF. POP.	
SUG TOTA			COEFF VAR.%	S.E.%	I	NET CU	FT FT/AC AVG	RE HIGH	#	OF PLOTS R	EQ. 10	INF. POP.	
SUG : TOT.	68.1 1.0			S.E.% 12.6	I				#				

TC PST	ATS				PROJECT PROJECT	STATI				PAGE DATE	2 2/15/2024
TWP	RGE	SC	TRACT	TYI	PE	A	CRES	PLOTS	TREES	CuFt	BdFt
033	007	08	226	ORI	G		138.00	43	176	1	E
CL	68.1		COEFF		NET CU	UFT FT/A	CRE		# OF PLOTS	S REQ.	INF. POP.
SD:	1.00		VAR.	S.E.%	LOW	AVG	HIGH		5	10	15
SUG I	PINE		209.2	31.9	72	106	140				
TOTA	AL		45.3	6.9	974	1,046	1,119		82	21	9

