

Sale KL-341-2024-GF8023-01

District: Klamath/Lake Date: January 16, 2024

Cost Summary

	Conifer	Hardwood	Total	
Gross Timber Sale Value \$163,196.46		\$0.00	\$163,196.46	
		Project Work:	(\$135,333.12)	
		Advertised Value:	\$27,863.34	

2/21/24



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Timber Description

Location:

Stand Stocking: 20%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	16	0	98
White Fir	17	0	98
Ponderosa Pine	14	0	98

Volume by Grade	28	3S & 4S 6"- 11"	3S 12"+	6" - 11"	12"-15"	Total
Douglas - Fir	70	217	0	0	0	287
White Fir	300	126	27	0	0	453
Ponderosa Pine	О	0	0	701	315	1,016
Total	370	343	27	701	315	1,756

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

Lodgepole Pine \$35 MBF

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: 9.5 miles x \$270 per mile x 1 bladings =

\$2,565.00 Total Road Maintenance: \$2,965, \$1.59 per Mbf



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Logging Conditions

Combination#: 1 Douglas - Fir 100.00%

White Fir 100.00% Ponderosa 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: 14 bd. ft / load: 4000

cost / mbf: \$178.58

machines: Log Loader (B)

Stroke Delimber (B) Feller Buncher w/ Delimber

Tire Skidder



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Logging Costs

Operating Seasons: 1.00

Profit Risk: 10%

Project Costs: \$135,333.12

Other Costs (P/R): \$0.00

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

Miles of Road

Road Maintenance:

\$1.59

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	4.3
White Fir	\$0.00	4.0	4.4
Ponderosa Pine	\$0.00	4.0	4.2



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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									
\$178.58	\$1.62	\$2.50	\$98.84	\$0.00	\$28.15	\$0.00	\$2.00	\$0.00	\$311.69
White Fir	White Fir								
\$178.58	\$1.62	\$2.50	\$72.44	\$0.00	\$25.51	\$0.00	\$2.00	\$0.00	\$282.65
Ponderosa Pine									
\$178.58	\$1.62	\$2.50	\$75.89	\$0.00	\$25.86	\$0.00	\$2.00	\$0.00	\$286.45

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$624.76	\$313.07	\$0.00
White Fir	\$0.00	\$415.74	\$133.09	\$0.00
Ponderosa Pine	\$0.00	\$299.30	\$12.85	\$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

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	287	\$313.07	\$89,851.09
White Fir	453	\$133.09	\$60,289.77
Ponderosa Pine	1,016	\$12.85	\$13,055.60

Gross Timber Sale Value

Recovery: \$163,196.46

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

Other Costs

		R	oad Maintenance			
	Move-in cost (grader):	\$400.00)			
Num	ber of Miles to be Bladed:	9.5	5			
	Number of Bladings:	•	1			
	Total Miles:	9.	5			
ľ	Miles/Hour for Equipment:	0.!	5			
Cost/	Hour (grader with operator):	\$135.00)			
	Total Grading Hours:	19	Ð			
	Grading Cost:	\$2,565.00	<u>)</u>			
	Total Cost:	\$2,965.0	<u>)</u>			
	Cost/Mbf:	\$1.59	9			
25	207 NALE	450/	Average	4.0.04145	No of Loods	72
DF	287 Mbf	15%	Average Load	4.0 Mbf	No. of Loads	72
WF	453 Mbf	24%	Average Load	4.0 Mbf	No. of Loads	113
PP	1,126 Mbf	60%	Average Load	4.0 Mbf	No. of Loads	282
Total:	1,866 Mbf				Total Loads	467
Assume:	4 Trucks/Day 4 Trips/Day					

16 Loads per Day

29 Hauling Days

Project Costs

Project #1 Road Improvement and Construction

Improvement

Move in Cost Cat: \$500

	Points	Distance(ft)	Feet/Hour	Hours	Cost/Hour	Cost
Open/Clear/Shape	C to D	1,238	1000	1.24	\$150.00	\$185.70
Open/Clear/Shape	J to K	1,607	1000	1.61	\$150.00	\$241.05
Open/Clear/Shape	N to O	11,566	1000	11.57	\$150.00	\$1,734.90
Open/Clear/Shape	E to F	6,454	1000	6.45	\$150.00	\$968.10
Open/Clear/Shape	G to H	5,134	1000	5.13	\$150.00	\$770.10
Open/Clear/Shape	L to M	3,243	1000	3.24	\$150.00	\$486.45
Open/Clear/Shape	R to S	7,782	1000	7.78	\$150.00	\$1,167.30
Open/Clear/Shape	T to U	3,078	1000	3.08	\$150.00	\$461.70
Open/Clear/Shape	V to X	3,097	1000	3.10	\$150.00	\$464.55
Open/Clear/Shape	V to W	1,495	1000	1.50	\$150.00	\$224.25
Open/Clear/Shape	A to B	1,087	1000	1.09	\$150.00	\$163.05
Construction						
Open/Clear/Shape	H to I	248	1000	0.25	\$150.00	\$37.17
Open/Clear/Shape	P to Q	859	1000	0.86	\$150.00	\$128.80
	Total	46,887		• 46.89		\$7,033.12

Project Costs

Project #1 Road Improvement and Construction

Project #1 Summary

 Move In Costs
 \$500.00

 Improvement Cost
 \$7,033.12

 Project # 2 Total per Mbf
 \$7,533.12

Replacement - GNA KL-341-2024-GF8023-01

Project Costs

Project #2 Fell, Skid, and Pile Submerchantable Material

Total Sub-Sawlog Volume: 1,014 MBF

Fell and Skid/MBF: \$75.00

Sort/MBF: \$25.00

Total \$101,400.00

per MBF \$54.34

Landing Slash Piling

Number of Landings: 44

Shovel Time: 1 Hour per Landing Cost per Hour: \$150.00 Total Cost \$6,600.00

Cat Time: 1 Hour per Landing Cost per Hour: \$150.00 Total Cost \$6,600.00

Total \$13,200.00 per MBF \$7.07

Project #2 Summary

Fell, Skid, Pile Submerchantable Material \$101,400.00

Landing Slash Piling \$13,200.00

Total Cost \$114,600.00

per Mbf \$61.41

Project Costs

Project #3 Road Closures and Waterbarring

Skid Trail Waterbarring

Number of Landings 44

2 Hours per Landing

\$150.00 Cost per Hour (Cat)

\$13,200.00 Total

\$7.07 per Mbf

Project #3 Summary

Waterbarring: \$13,200.00

> Total: \$13,200.00

\$7.07 per Mbf:

Cost Summary All Projects

Project No.1 - Road Improvement and Construction \$7,533.12 Project No.2 - Fell, Skid, and Pile Submerchantable Material \$114,600.00

> Project No.3 - Waterbarring \$13,200.00

Total Cost

per Mbf \$72.53

\$135,333.12

Replacement - GNA

KL-341-2024-GF8023-01 Cruise Report



SALE NAME: Replacement- GNA

LEGAL DESCRIPTION:

Located in Section(s) 5,6, T36S, R8W; 7,8,16,17,18,19,20,29,30,31 and 32 of T35S, R8E, Willamette Meridian, Klamath County, Oregon

BOUNDARY LINES:

Unit boundaries are unmarked.

ACREAGE:

Gross Sale Acreage: 868 Acres

Exclusion Acreage: 100 Acres

Net Sale Acreage: 768 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 two count plot for every measure plot. Fixed plot cruise for sub-merchantable material was 5-9 inch DBH for all species.

BASAL AREA FACTOR:

A basal area factor of 10 was used for all variable cruise plots. Fixed plots were cruised at $^{1}/_{50}$ of an acre

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.

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
64.9	9.6	768

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)	
Ponderosa pine	13.9	768	1,488	1,466	1,126	
White fir	17.2	768	590	590	453	
Douglas fir	15.5	768	374	374	287	
		Total	2,452	2,430	1,866	

TOTAL NET SAWLOG VOLUME: 1,937 MBF

GREEN PULP VOLUME:

This volume was obtained by combining material from the fixed plot cruise with non-saw 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)
Ponderosa pine	768	595	661
Western juniper	768	143	171
Total		738	832

VARIABLE PLOT CRUISE

Species	Acres	Vol/Acre (bf)	Sale Vol (Mbf)
Ponderosa pine	768	145	111
Western juniper	768	93	71
Total		238	182

TOTAL GREEN PULP VOLUME: 1,014 Mbf

т т	SPCSTGR				Species	s, Sort C Project:	Grade - Boar REP		ot Vol	umes (T	Гур	e)]	Pag Date Fim	2 1	1 /16/202 7:08:22	
T035 I Twp 035	R008 S30 T Rge 008		Sec	Tract SNA		Type VAR	Acre 2 768.		Plots		_	e Trees		CuFt 1	T03 BdI E		008 S30	TVAI	R2
Spp	S So Gr		% Net BdFt	Bd. I Def%	Ft. per Acre Gross	Net	Total Net MBF	<u> </u>	Log Sca	et Board F ale Dia. 12-16 17		Log	Len	gth 31-35 36-99	Av Ln l Ft l	Dia	ge Log Bd Ft	CF/ Lf	Logs Per /Acre
PP PP	CR CR	CR GP	90 10	1.7	1,344 145	1,322 145	1,015	51	69	31	+	42 83	11 17	47	20	9		0.79	19
PP	Totals		58	1.5	1,488	1,466	1,126	5	65	29		46	11	42	19	8	53	0.69	27
WF	CR	CR	100		590	590	453		28	72		25	11	64	24	11	133	1.24	4
WF	Totals		23		590	590	453		28	72		25	11	64	24	11	133	1.24	4
DF	CR	CR	100		374	374	287		76	24		23		77	23	9	92	0.95	4
DF	Totals		15		374	374	287		76	24		23		77	23	9	92	0.95	4
OC	CR	GP	100		93	93	71	100				100			15	5	20	0.27	4
ос	Totals		4		93	93	71	100				100			15	5	20	0.27	۷
Туре То	otals			.9	2,545	2,523	1,938	7	56	38		40	9	51	19	8	62	0.76	40

TC T	LOGST	VB					g Stoc	k Tab		BF PLAC								
T035 I	R008 Rg 00	ge	S		act A		Type VAR2	,	Acres	I	Plots 46	Samp	le Trees		035 R008 Page Date Time	8 S30 TV 1 1/16/2 7:08:		
S	So (Fr	Log	Gross	%	Net	%	Net Volume by Scaling Diameter in Inches										
Spp T	rtd	le	Len	MBF	Def	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 PP	CR CR		16 24	435 19	1.2	430 19	38.2 1.6			102 19	162	118	27	21				
PP PP	CR CR	CR	27 28	23 69		23 69	2.0 6.1			23	30		39					
PP	CR	CR	32	487	2.4	476	42.2				91	156	179	49				
PP PP	CR CR	GP GP	4 10	17		17	1.5						17					
PP PP	CR CR	GP GP	11	11 11		11 11	1.0		11	11								
PP PP	CR CR	GP GP	16 19	34 11 9		34 11	1.0	9	8 11			27						
PP PP	CR CR	GP GP	20 21	19		9 19	.8 1.6	9	19									
PP		Tota	als	1,143	1.5	1,126	58.1	9	48	155	283	300	261	70				
WF WF	CR CR		16 17	39 75		39 75	8.6 16.5				20	39 19	36					
WF WF	CR CR	CR	27 34	48 70		48 70	10.6 15.5					48	70					
WF	CR	CR	35	221		221	48.8						153	68			-	
WF		Tota	als	453		453	23.4				20	106	260	68			-	
DF DF	CR CR	CR	16 17	30 35		30 35	10.3 12.3				30 17	18						
DF DF	CR CR		32 34	151 71		151 71	52.4 24.9					80 71		70				
DF		Tota	als	287		287	14.8				47	170		70				
OC	CR	GP	15	71		71	100.0		71									
OC		Tota	als	71		71	3.7		71									
Total All	Species			1,955		1,938	100.0	9	119	155	350	576	521	208				

TC PST	ΓATS					OJECT OJECT		STICS LAC			PAGE DATE	1 1/16/2024
TWP	RGE	SC	TRACT		ГҮРЕ		AC	RES	PLOTS	TREES	CuFt	BdFt
035	008	30	GNA		VAR2			768.00	46	163	1	E
						TREES		ESTIMATED TOTAL		ERCENT SAMPLE		
		I	PLOTS	TREES		PER PLOT		TREES		TREES		
TOTA	AL		46	163		3.5						
	ISE COUNT DREST		17	52		3.1		25,927		.2		
BLAN	NKS		28	111		4.0						
					STA	ND SUMM	ARY					
			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			37	22.8	13.9	33	6.4	23.9	1,488	1,466	360	360
WHI			7	3.4	17.2	44	1.3	5.4	590	590	130	130
DOU: OC	G-FIR		4	3.0 4.6	15.5 8.3	47 14	1.0 0.6	3.9 1.7	374 93	374 93	91 19	91 19
TOT	AL		52	33.8	13.8	33	9.4	35.0	2,545	2,523	600	600
CON			ITS OF THE		VOLUME	WILL BE V	VITHIN TI	HE SAMPLE E	RROR			
CL	68.1		COEFF				E TREES		#	OF TREES R	-	INF. POP.
SD:	1.0		VAR.%	S.E.%	L	OW O2	AVG	HIGH		5	10	15
P PIN WHI			92.8 57.0	15.2 23.2		82 162	97 211	112 260				
	G-FIR		74.0	42.3		100	173	245				
TOT	AL		86.8	12.4		104	119	134		301	75	33
CL	68.1		COEFF				E TREES		#	OF TREES R	•	INF. POP.
SD:	1.0		VAR.%	S.E.%	L	OW 20	AVG	HIGH		5	10	15
P PIN WHI			84.0 56.6	13.8 23.0		20 36	23 47	26 58				
	G-FIR		75.9	43.4		24	42	60				
TOT	AL		81.8	11.7		25	28	31		267	67	30
CL			COEFF			TREES/A			#	OF PLOTS R	=	INF. POP.
	1.0		94.0	S.E.%	L	OW 20	AVG	HIGH		5	10	15
P PIN WHI			94.0 163.6	13.8 24.1		20 3	23 3	26 4				
	G-FIR		289.0	42.6		2	3	4				
OC			474.2	69.9		1	5	8				
TOT	AL		75.1	11.1		30	34	37		225	56	25
	68.1		COEFF	~= :			AREA/AC		#	OF PLOTS R		INF. POP.
SD: P PIN	1.0		VAR.% 90.5	S.E.% 13.3	L	OW 21	AVG 24	HIGH 27		5	10	15
WHI			167.8	24.7		4	5	7				
DOU	G-FIR		287.5	42.4		2	4	6				
OC TOT	A T		474.2	69.9		1	2	3		146	36	• .
TOT			60.5	8.9		32	35	38		146	36	16
	68.1 1.0		COEFF VAR.%	S.E.%	I.	NET BF/ OW	ACRE AVG	HIGH	#	OF PLOTS R	REQ. 10	INF. POP.
P PIN			92.6	13.6		1,266	1,466	1,666				
WHI			179.7	26.5		434	590	746				
	G-FIR		289.3	42.6		215	374	533				
OC			474.2	69.9		28	93	157				

TC PST	ATS				PROJECT PROJECT		STICS PLAC			PAGE DATE	2 1/16/2024
TWP	RGE	\mathbf{SC}	TRACT	TYP	E	A	CRES	PLOTS	TREES	CuFt	BdFt
035	008	30	GNA	VAR	2		768.00	46	163	1	E
CL	68.1		COEFF		NET BE	NET BF/ACRE # OF PLOTS REQ				S REQ.	INF. POP.
SD:	1.00		VAR.	S.E.%	LOW	AVG	HIGH		5	10	15
TOTA	AL		64.9	9.6	2,282	2,523	2,764		168	42	19
CL	68.1		COEFF		NET CU	J FT FT/A	CRE		# OF PLOTS RE	EQ.	INF. POP.
SD:	1.0		VAR.%	S.E.%	LOW	AVG	HIGH		5	10	15
P PIN	Е		91.8	13.5	312	360	409				
WHIT	ΈF		179.4	26.4	96	130	165				
DOUG	G-FIR		289.1	42.6	52	91	129				
OC			474.2	69.9	6	19	31				
TOTA	AL		64.7	9.5	542	600	657		167	42	19

