



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal  
Bearly Adequate - GNA  
Sale KL-341-2025-GF7523-01

District: Klamath/Lake

Date: July 19, 2024

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**Cost Summary**

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$162,344.87	\$0.00	\$162,344.87
		Project Work:	(\$119,209.55)
		Advertised Value:	\$43,135.32



# Timber Sale Appraisal Bearly Adequate - GNA Sale KL-341-2025-GF7523-01

**District: Klamath/Lake**

**Date: July 19, 2024**

## Timber Description

**Location:**

**Stand Stocking: 20%**

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
White Fir	15	100	98
Ponderosa Pine	10	100	95
Lodgepole Pine	11	100	95

Volume by Grade	3S & 4S 6"-11"	6" - 11"	Camprun	Total
White Fir	348	0	0	348
Ponderosa Pine	0	139	0	139
Lodgepole Pine	0	0	3,046	3,046
<b>Total</b>	348	139	3,046	3,533

**Comments:** Pond Values Used: Local Pond Values, June 2024

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: 29 miles x \$270 per mile x 1 bladings = \$7.830.00

Total Road Maintenance: \$8,230.00, \$2.33 per Mbf



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**Logging Conditions**

<b>Combination#:</b> 1	White Fir	100.00%
	Ponderosa Pine	100.00%
	Lodgepole Pine	100.00%
<b>Logging System:</b>	Wheel Skidder	<b>Process:</b> Feller Buncher
<b>yarding distance:</b>	Medium (800 ft)	<b>downhill yarding:</b> Yes
<b>tree size:</b>	Small / Thinning 10in (90 Bft/tree), 18-20 logs/MBF	
<b>loads / day:</b>	12.25	<b>bd. ft / load:</b> 4275
<b>cost / mbf:</b>	\$190.96	
<b>machines:</b>	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: \$119,209.55	Other Costs (P/R): \$0.00
Slash Disposal: \$0.00	Other Costs: \$0.00

Miles of Road

Road Maintenance: \$2.33

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	4.3
Ponderosa Pine	\$0.00	5.0	4.6
Lodgepole Pine	\$0.00	5.0	4.6



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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
<b>White Fir</b>									
\$190.96	\$2.38	\$1.24	\$98.84	\$0.00	\$29.34	\$0.00	\$2.00	\$0.00	\$324.76
<b>Ponderosa Pine</b>									
\$190.96	\$2.45	\$1.24	\$57.07	\$0.00	\$25.17	\$0.00	\$2.00	\$0.00	\$278.89
<b>Lodgepole Pine</b>									
\$190.96	\$2.45	\$1.24	\$57.07	\$0.00	\$25.17	\$0.00	\$2.00	\$0.00	\$278.89

Specie	Amortization	Pond Value	Stumpage	Amortized
White Fir	\$0.00	\$427.00	\$102.24	\$0.00
Ponderosa Pine	\$0.00	\$290.00	\$11.11	\$0.00
Lodgepole Pine	\$0.00	\$320.00	\$41.11	\$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	348	\$102.24	\$35,579.52
Ponderosa Pine	139	\$11.11	\$1,544.29
Lodgepole Pine	3,046	\$41.11	\$125,221.06

#### Gross Timber Sale Value

Recovery: \$162,344.87

Prepared By: Chris Weekly

Phone: 541-883-5681

Bearly Adequate  
KL-341-2025-GF7523-01

*Other Costs*

*Road Maintenance*

Move-in cost (grader):	\$400.00
Number of Miles to be Bladed:	29
Number of Bladings:	1
Total Miles:	29
Miles/Hour for Equipment:	0.5
Cost/Hour (grader with operator):	\$135.00
Total Grading Hours:	58
Grading Cost:	\$7,830.00
<b>Total Cost:</b>	<b>\$8,230.00</b>
Cost/Mbf:	\$2.33

LP	3,046 Mbf	86%	Average Load	4.0 Mbf	No. of Loads	762
WF	348 Mbf	10%	Average Load	4.0 Mbf	No. of Loads	87
PP	139 Mbf	4%	Average Load	4.0 Mbf	No. of Loads	35
<b>Total:</b>	<b>3533 Mbf</b>				<b>Total Loads</b>	<b>883</b>

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

# Bearly Adequate

## KL-341-2025-GF7523-01

### *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	E to F	1,935	1000	1.94	\$150.00	\$290.25
Open/Clear/Shape	S to T	274	1000	0.27	\$150.00	\$41.10
Open/Clear/Shape	A to B	761	1000	0.76	\$150.00	\$114.15
Open/Clear/Shape	C to D	3,153	1000	3.15	\$150.00	\$472.95
Open/Clear/Shape	G to H	2,311	1000	2.31	\$150.00	\$346.65
Open/Clear/Shape	I to J	11,386	1000	11.39	\$150.00	\$1,707.90
Open/Clear/Shape	K to L	2,103	1000	2.10	\$150.00	\$315.45
Open/Clear/Shape	M to N	3,783	1000	3.78	\$150.00	\$567.45
Open/Clear/Shape	O to P	5,364	1000	5.36	\$150.00	\$804.60
Open/Clear/Shape	Q to R	2,282	1000	2.28	\$150.00	\$342.30
Open/Clear/Shape	U to V	2,067	1000	2.07	\$150.00	\$310.05
Open/Clear/Shape	W to X	1,488	1000	1.49	\$150.00	\$223.20
Open/Clear/Shape	N to Y	8,666	1000	8.67	\$150.00	\$1,299.90
Open/Clear/Shape	V to Z	2,800	1000	2.80	\$150.00	\$420.00
Open/Clear/Shape	2A to 2B	1,510	1000	1.51	\$150.00	\$226.50
Open/Clear/Shape	2C to 2D	4,702	1000	4.70	\$150.00	\$705.30
Open/Clear/Shape	2E to 2F	1,401	1000	1.40	\$150.00	\$210.15
Open/Clear/Shape	2G to 2H	770	1000	0.77	\$150.00	\$115.50
Open/Clear/Shape	2I to 2J	2,400	1000	2.40	\$150.00	\$360.00
Open/Clear/Shape	2K to 2L	3,180	1000	3.18	\$150.00	\$477.00
Open/Clear/Shape	2M to 2N	1,872	1000	1.87	\$150.00	\$280.80
Open/Clear/Shape	2O to 2P	2,038	1000	2.04	\$150.00	\$305.70
Open/Clear/Shape	N to 2Q	2,686	1000	2.69	\$150.00	\$402.90
Open/Clear/Shape	2R to 2S	3,107	1000	3.11	\$150.00	\$466.05
Open/Clear/Shape	2T to 2U	2,566	1000	2.57	\$150.00	\$384.90
Open/Clear/Shape	2S to 2V	501	1000	0.50	\$150.00	\$75.15
Open/Clear/Shape	2W to 2X	152	1000	0.15	\$150.00	\$22.80
Open/Clear/Shape	2Y to 2Z	1,039	1000	1.04	\$150.00	\$155.85
Open/Clear/Shape	3A to 3B	1,061	1000	1.06	\$150.00	\$159.15
Open/Clear/Shape	3C to 3D	1,210	1000	1.21	\$150.00	\$181.50
Open/Clear/Shape	3E to 3F	1,282	1000	1.28	\$150.00	\$192.30
Open/Clear/Shape	3G to 3J	1,263	1000	1.26	\$150.00	\$189.45
Open/Clear/Shape	3H to 3I	284	1000	0.28	\$150.00	\$42.60
<b>Total</b>		81,397		81.40		\$12,209.55



Bearly Adequate  
KL-341-2025-GF7523-01  
*Project Costs*

*Project #1 Road Improvement and Construction*

*Project #1 Summary*

Move In Costs	\$500.00
Improvement Cost	\$12,209.55
<b>Project # 1 Total</b>	<b>\$12,709.55</b>
per Mbf	\$3.60

*Project #2 Fell, Skid, and Pile Submerchantable Material*

Total Sub-Sawlog Volume: 579 MBF

Fell and Skid/MBF: \$75.00

Sort/MBF: \$25.00

**Total** **\$57,900.00**

per MBF \$16.39

*Landing Slash Piling*

Number of Landings: 87

Shovel Time:	1 Hour per Landing	Cost per Hour: \$150.00	Total Cost	\$13,050.00
Cat Time:	1 Hour per Landing	Cost per Hour: \$150.00	Total Cost	\$13,050.00
		<b>Total</b>	<b>\$26,100.00</b>	
		per MBF	\$7.39	

*Project #2 Summary*

Fell, Skid, Pile Submerchantable Material	\$57,900.00
Landing Slash Piling	\$26,100.00
<b>Total Cost</b>	<b>\$84,000.00</b>
per Mbf	\$23.78

Bearly Adequate  
KL-341-2025-GF7523-01

*Project Costs*

*Project #3 Waterbarring*

*Skid Trail Waterbarring*

75	Number of Landings
2	Hours per Landing
<u>\$150.00</u>	Cost per Hour (Cat)
<b>\$22,500.00</b>	<b>Total</b>
\$6.37	per Mbf

*Project #3 Summary*

Waterbarring:	<u>\$22,500.00</u>
<b>Total:</b>	<b><u>\$22,500.00</u></b>
per Mbf:	\$6.37

*Cost Summary All Projects*

Project No.1 - Road Improvement and Construction	\$12,709.55
Project No.2 - Fell, Skid, and Pile Submerchantable Material	\$84,000.00
Project No.3 - Waterbarring	\$22,500.00
<b>Total Cost</b>	<b><u>\$119,209.55</u></b>
per Mbf	\$33.74

# ***Bearly Adequate - GNA***

***KL-341-2025-GF7523-01***

## ***Cruise Report***



"STEWARDSHIP IN FORESTRY"

**SALE NAME:** Bearly Adequate - GNA

### **LEGAL DESCRIPTION:**

Located in Section(s) 15, 16, 17, 18, 19, 20, 21, 22, 28, 29 and 30 of T25S, R11E, Willamette Meridian, Klamath County, Oregon

### **BOUNDARY LINES:**

Unit boundaries are unmarked.

### **ACREAGE:**

Gross Sale Acreage: 1,684 Acres

Exclusion Acreage: 152 Acres

Net Sale Acreage: 1,532 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  $\frac{1}{50}$  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.

### **SAMPLE SIZE CALCULATIONS:**

AREA	CV%	DESIRED SE%	ACRES
Area 1	85%	12%	1,532

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

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

$$N = \frac{(1)^2(100)^2}{(12)^2} = 50 \text{ plots}$$

#### 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:**

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
60.4	8.5	1,532

## **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)
Lodgepole pine	10.6	1,532	2,048	1,988	3,046
White fir	12.4	1,532	227	227	348
Ponderosa pine	10.1	1,532	98	91	139
		<b>Total</b>	2,373	2,306	3,533

**TOTAL NET SAWLOG VOLUME: 3,533 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**

<b>Species</b>	<b>Acres</b>	<b>Vol/Acre (bf)</b>	<b>Sale Vol (Mbf)</b>
Lodgepole pine	919	179	165
White fir	919	95	87
Ponderosa pine	919	36	33
<b>Total</b>		310	285

#### **VARIABLE PLOT CRUISE**

<b>Species</b>	<b>Acres</b>	<b>Vol/Acre (bf)</b>	<b>Sale Vol (Mbf)</b>
Lodgepole pine	1,532	144	221
White fir	1,532	0	0
Ponderosa pine	1,532	48	74
<b>Total</b>		192	294

**TOTAL GREEN PULP VOLUME: 579 Mbf**

TC TLOGSTVB				Log Stock Table - MBF																										
				Project: BW1																										
T025 R011 S28 TVARI														T025 R011 S28 TVARI																
Twp		Rge		Sec		Tract		Type		Acres		Plots		Sample Trees				Page		1										
025		011		28		GNA		VARI		1532.00		50		73				Date		1/12/2024										
																		Time		6:52:20AM										
Spp	S	So	Gr	Log	Len	Gross	%	Net	%	Net Volume by Scaling Diameter in Inches																				
										MBF	Def	MBF	Spc	2-3		4-5		6-7		8-9		10-11		12-13		14-15		16-19		20-23
LP	CR	CR	16	877	1.6	863	26.4									473	261	129												
LP	CR	CR	20	537	8.5	491	15.0						437	54																
LP	CR	CR	24	495	3.1	479	14.7						422	58																
LP	CR	CR	28	231		231	7.1						231																	
LP	CR	CR	32	998	1.7	981	30.0						514	378		89														
LP	CR	GP	10	29		29	.9			29																				
LP	CR	GP	12	29		29	.9				29																			
LP	CR	GP	16	115		115	3.5			25	90																			
LP	CR	GP	20	48		48	1.5				48																			
LP	Totals				3,359	2.7	3,267	85.4		54	2244	750	129	89																
PP	CR	CR	16	150	7.2	139	65.5				80	59																		
PP	CR	GP	12																											
PP	CR	GP	14	37		37	17.3				37																			
PP	CR	GP	16	19		19	8.9		19																					
PP	CR	GP	18	18		18	8.3		18																					
PP	Totals				223	4.8	213	5.6	36		117	59																		
WF	CR	CR	17	44		44	12.8				44																			
WF	CR	CR	27	64		64	18.5					64																		
WF	CR	CR	34	239		239	68.8				142		97																	
WF	Totals				348		348	9.1			187	64	97																	
Total All Species				3,930	2.6	3,827	100.0	36	54	2548	874	225	89																	

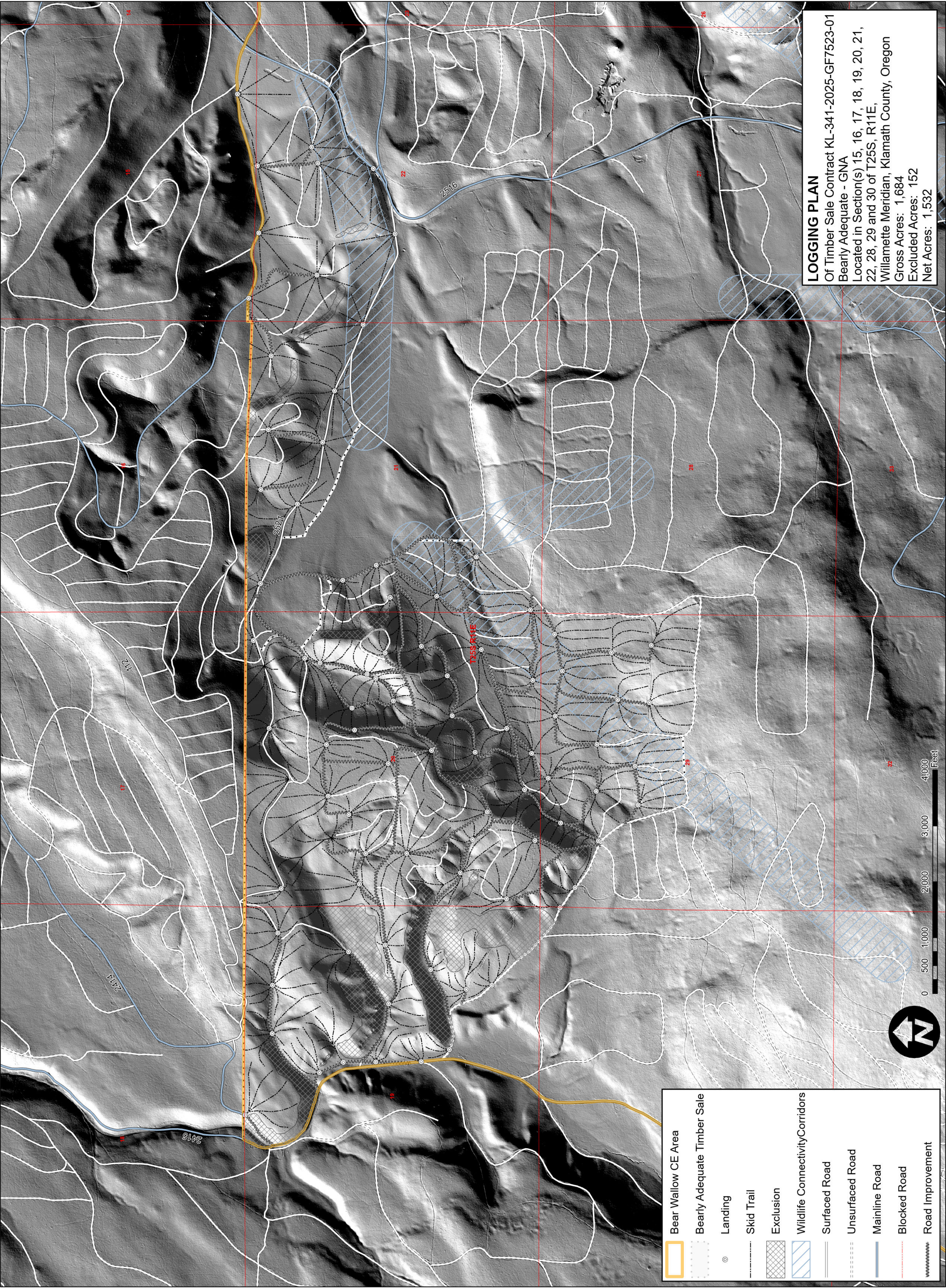


T	Species, Sort Grade - Board Foot Volumes (Type)										Page 1							
	Project: BW1										Date	1/12/2024						
											Time	6:52:22AM						
T025 R011 S28 TVARI										T025 R011 S28 TVARI								
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt									
025	011	28	GNA	VARI	1532.00	50	73	1	E									
S So Gr T rt ad Spp			% Net BdFt	Bd. Ft. per Acre			Total Net MBF	Percent Net Board Foot Volume						Average Log		Logs Per /Acre		
			Def%	Gross	Net	Log Scale Dia.				Log Length				Ln	Dia		Bd	CF/ Lf
LP	CR	CR	93	2.9	2,048	1,988	3,045	97	3	44	23	32	22	7	39	0.49	50.4	
LP	CR	GP	7		144	144	221	25	75	100			15	5	15	0.25	9.9	
LP	Totals		85	2.7	2,193	2,132	3,267	2	96	3	48	22	30	21	7	35	0.46	60.3
PP	CR	CR	65	7.2	98	91	139	100			100			16	7	28	0.45	3.3
PP	CR	GP	35		48	48	73	50	50	100			15	4	10	0.22	4.8	
PP	Totals		6	4.8	146	139	213	17	83	100			15	5	17	0.32	8.0	
WF	CR	CR	100		227	227	348	100			13	18	69	26	7	60	0.64	3.8
WF	Totals		9		227	227	348	100			13	18	69	26	7	60	0.64	3.8
Type Totals				2.6	2,565	2,498	3,827	2	95	2	48	20	32	20	7	35	0.46	72.2

TC TSTATS				STATISTICS				PAGE	1		
				PROJECT	BW1			DATE	1/12/2024		
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt		
025	011	28	GNA	VARI	1,532.00	50	215	1	E		
				TREES	ESTIMATED TOTAL	PERCENT SAMPLE					
				PLOTS	TREES	PER PLOT	TREES	TREES			
TOTAL		50	215	4.3							
CRUISE		16	72	4.5	105,817			.1			
DBH COUNT											
REFOREST											
COUNT		32	143	4.5							
BLANKS		2									
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
LP PINE		60	58.4	10.6	25	11.0	36.0	2,193	2,132	570	570
P PINE		7	6.8	10.1	21	1.2	3.8	146	139	39	39
WHITE F		5	3.8	12.4	32	0.9	3.2	227	227	64	64
TOTAL		72	69.1	10.7	25	13.2	43.0	2,565	2,498	673	673
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	
LP PINE		67.0	8.6	39	43	47					
P PINE		42.0	17.1	18	21	25					
WHITE F		61.4	30.5	53	76	99					
TOTAL		71.0	8.4	40	43	47	201	50			22
CL:	68.1 %	COEFF	SAMPLE TREES - CF					# OF TREES REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5		10	15	
LP PINE		60.3	7.8	11	12	12					
P PINE		34.7	14.1	5	6	7					
WHITE F		50.6	25.2	16	21	26					
TOTAL		64.3	7.6	11	12	13	165	41			18
CL:	68.1 %	COEFF	TREES/ACRE					# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5		10	15	
LP PINE		72.8	10.3	52	58	64					
P PINE		280.3	39.6	4	7	10					
WHITE F		218.6	30.9	3	4	5					
TOTAL		61.9	8.7	63	69	75	153	38			17
CL:	68.1 %	COEFF	BASAL AREA/ACRE					# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5		10	15	
LP PINE		71.0	10.0	32	36	40					
P PINE		280.8	39.7	2	4	5					
WHITE F		213.5	30.2	2	3	4					
TOTAL		58.2	8.2	39	43	47	135	34			15
CL:	68.1 %	COEFF	NET BF/ACRE					# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5		10	15	
LP PINE		71.4	10.1	1,917	2,132	2,347					
P PINE		285.6	40.4	83	139	195					
WHITE F		215.2	30.4	158	227	296					
TOTAL		60.4	8.5	2,285	2,498	2,711	145	36			16
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	
LP PINE		70.6	10.0	513	570	627					
P PINE		285.2	40.3	23	39	55					
WHITE F		213.3	30.1	45	64	84					

TC TSTATS				STATISTICS				PAGE	2
				PROJECT	BW1			DATE	1/12/2024
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
025	011	28	GNA	VARI	1,532.00	50	215	1	E
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
TOTAL		59.0	8.3	617	673	729	139	35	15





**Bear Wallow CE Area**

**Bearly Adequate Timber Sale**

**Landing**

**Skid Trail**

**Exclusion**

**Wildlife ConnectivityCorridors**

**Surfaced Road**

**Unsurfaced Road**

**Mainline Road**

**Blocked Road**

**Road Improvement**

**LOGGING PLAN**

Of Timber Sale Contract KL-341-2025-GF7523-01

Bearly Adequate - GNA

Located in Section(s) 15, 16, 17, 18, 19, 20, 21, 22, 28, 29 and 30 of T25S, R11E,

Willamette Meridian, Klamath County, Oregon

Gross Acres: 1,684

Excluded Acres: 152

Net Acres: 1,532