



"STEWARDSHIP IN FORESTRY"

# Timber Sale Appraisal Davis - GNA

## Sale KL-341-2023-GF8421-01

Date: May 16, 2022

District: Northeast

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### Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$70,815.57	\$0.00	\$70,815.57
		Project Work:	\$0.00
		Advertised Value:	\$70,815.57



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Date: May 16, 2022

District: Northeast

## Timber Description

Location: Portions of sections 1, 12, and 13 of Township 7 South Range 35 East W.M. Grant County, Oregon.

Stand Stocking: 60%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
White Fir	13	0	85
Lodgepole Pine	7	0	90
Western Larch	12	0	90

Volume by Grade	6" - 7"	8"+	Short Poles	Total
White Fir	58	455	0	513
Lodgepole Pine	1,009	356	913	2,278
Western Larch	11	34	0	45
Other	0	0	0	0
<b>Total</b>	1,078	845	913	2,836

**Comments:** Pond Values Used: Local Pond Values, March 2022  
 Log Markets: Parma, Pilot Rock, La Grande, Elgin, John Day  
 Other Costs (no Profit & Risk):  
 Other Costs (with Profit & Risk): Culvert replacement \$3000, culvert provided by Forest Service.



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### Logging Conditions

<b>Combination#:</b> 1	White Fir	100.00%
	Lodgepole Pine	100.00%
	Western Larch	100.00%
<b>Logging System:</b>	Wheel Skidder	<b>Process:</b> Feller Buncher
<b>yarding distance:</b>	Long (1,500 ft)	<b>downhill yarding:</b> Yes
<b>tree size:</b>	Small / Thinning 9in (70 Bft/tree), 20+ logs/MBF	
<b>loads / day:</b>	6	<b>bd. ft / load:</b> 3700
<b>cost / mbf:</b>	\$171.02	
<b>machines:</b>	Log Loader (B)	
	Stroke Delimber (B)	
	Feller Buncher w/ Delimber	
	Tire Skidder	

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**Logging Costs**

<b>Operating Seasons:</b> 1.00	<b>Profit Risk:</b> 10%
<b>Project Costs:</b> \$0.00	<b>Other Costs (P/R):</b> \$3,000.00
<b>Slash Disposal:</b> \$0.00	<b>Other Costs:</b> \$0.00

**Miles of Road**

**Road Maintenance:** \$0.00

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	2.0	4.0
Lodgepole Pine	\$0.00	2.0	3.5
Western Larch	\$0.00	2.0	4.0
Other	\$0.00	0.0	4.0



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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>									
\$171.02	\$0.00	\$1.55	\$172.50	\$1.06	\$34.61	\$0.00	\$2.00	\$0.00	\$382.74
<b>Lodgepole Pine</b>									
\$171.02	\$0.00	\$1.55	\$188.57	\$1.06	\$36.22	\$0.00	\$2.00	\$0.00	\$400.42
<b>Western Larch</b>									
\$171.02	\$0.00	\$1.55	\$165.00	\$1.06	\$33.86	\$0.00	\$2.00	\$0.00	\$374.49
<b>Other</b>									
\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Specie	Amortization	Pond Value	Stumpage	Amortized
White Fir	\$0.00	\$385.00	\$2.26	\$0.00
Lodgepole Pine	\$0.00	\$430.00	\$29.58	\$0.00
Western Larch	\$0.00	\$425.00	\$50.51	\$0.00
Other	\$0.00	\$0.00	\$0.00	\$0.00



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Date: May 16, 2022

District: Northeast

### Summary

#### Amortized

Specie	MBF	Value	Total
White Fir	0	\$0.00	\$0.00
Lodgepole Pine	0	\$0.00	\$0.00
Western Larch	0	\$0.00	\$0.00
Other	0	\$0.00	\$0.00

#### Unamortized

Specie	MBF	Value	Total
White Fir	513	\$2.26	\$1,159.38
Lodgepole Pine	2,278	\$29.58	\$67,383.24
Western Larch	45	\$50.51	\$2,272.95
Other	0	\$0.00	\$0.00

### Gross Timber Sale Value

Recovery: \$70,815.57

Prepared By: Jason Aldrich

Phone: 541-963-3168

## Summary of Project Work



"STEWARDSHIP IN FORESTRY"

**Davis - GNA**  
**KL-341-2023-GF8421-01**

**Project No. 1:** Culvert Replacement

Included in Rd Mnt.

\*Culvert to be provided by Forest Service

**Total:** \$3,000.00 (Included in Rd. Mnt.)

**DAVIS-GNA**  
**KL-341-2023-GF8421-01**  
**Cruise Report**



**SALE NAME:** Davis - GNA

**LEGAL DESCRIPTION:**

Portions of Sections 1, 12, and 13, T7S, R35E, W.M. Grant County, Oregon

**BOUNDARY LINES:**

Unit boundaries are posted with “Timber Sale Boundary” signs, marked with orange paint and blue flagging.

**ACREAGE:**

Gross Sale Acreage:	425 Acres
Exclusion Acreage	0 Acres
Net Sale Acreage:	425 Acres

Mapping was accomplished using a handheld Global Positioning System unit with the data run on the district Geographical Information System Program.

**TREATMENT:**

The Timber Sale is a partial cut harvest.

**CRUISE METHOD:**

Variable plot cruise with all plots measured.

**BASAL AREA FACTOR:**

Area	BAF	Type Acreage
Area 1	10 BAF	425

**MEASUREMENTS AND GRADING:**

- DBH and Height were measured on all “in” trees for measure plots.
- 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:**

9.0” 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 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:**

<b>AREA</b>	<b>CV%</b>	<b>SE%</b>	<b>ACRES</b>
Area 1	26.1	2.0	425

## 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	Gross Vol/Acre (bf)	Net Vol/Acre (bf)	Net Sale Vol (Mbf)
Western Larch	12.3	121	110	45
White fir	13.0	1561	1,260	513
Lodgepole pine and Other	7.5	6160	5528	2278
	<b>Total</b>	7842	6898	2836

**TOTAL NET SAWLOG VOLUME: 2836 MBF**

### **MBF to Tons Conversions**

Species:	MBF	Tons	\$/MBF	Total \$/Species	\$/Ton
LP/ES/AF	2278	10,322	\$29.58	\$67,383.24	\$6.53
WF	513	2,997	\$2.26	\$1,159.38	\$0.39
WL/DF	45	240	\$50.51	\$2,272.95	\$9.47
<b>TOTAL:</b>	2836	13,559	\$24.97	\$70,815.57	\$5.22

TC PSTATS		<b>PROJECT STATISTICS</b>							PAGE	<b>1</b>	
usfs		<b>PROJECT DAVIS</b>							DATE	3/7/2022	
TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt	
007	035	12	1	VP		425.00	172	1,166	S	E	
			PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES				
TOTAL			172	1166	6.8						
CRUISE			58	395	6.8	90,792	.4				
DBH COUNT REFOREST											
COUNT			114	770	6.8						
BLANKS											
100 %											
<b>STAND SUMMARY</b>											
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	335	198.7	7.1	38	20.6	54.9	5,938	5,344	1,084	1,084	
CON FIR	51	11.1	13.0	55	2.8	10.2	1,561	1,260	296	296	
E SPRUCE	3	1.5	11.8	41	0.3	1.1	137	112	28	28	
W LARCH	2	1.1	12.3	61	0.2	.9	121	110	25	25	
ALP FIR	4	1.3	9.4	56	0.2	.6	85	72	16	16	
<b>TOTAL</b>	<b>395</b>	<b>213.6</b>	<b>7.6</b>	<b>39</b>	<b>24.5</b>	<b>67.7</b>	<b>7,842</b>	<b>6,898</b>	<b>1,449</b>	<b>1,449</b>	
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		59.8	3.3	34	35	36					
CON FIR		63.6	8.9	140	154	167					
E SPRUCE		64.9	44.9	64	117	169					
W LARCH		20.2	18.9	85	105	125					
ALP FIR		68.8	39.3	33	55	77					
<b>TOTAL</b>		<b>110.6</b>	<b>5.6</b>	<b>49</b>	<b>52</b>	<b>54</b>	<b>488</b>	<b>122</b>	<b>54</b>		
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		59.0	3.2	7	7	7					
CON FIR		57.0	8.0	32	35	38					
E SPRUCE		60.8	42.1	17	29	41					
W LARCH		2.9	2.7	23	24	24					
ALP FIR		35.5	20.3	10	12	14					
<b>TOTAL</b>		<b>113.2</b>	<b>5.7</b>	<b>11</b>	<b>11</b>	<b>12</b>	<b>512</b>	<b>128</b>	<b>57</b>		
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		57.2	4.4	190	199	207					
CON FIR		197.8	15.1	9	11	13					
E SPRUCE		428.1	32.6	1	1	2					
W LARCH		389.1	29.6	1	1	1					
ALP FIR		534.0	40.7	1	1	2					
<b>TOTAL</b>		<b>44.0</b>	<b>3.3</b>	<b>206</b>	<b>214</b>	<b>221</b>	<b>77</b>	<b>19</b>	<b>9</b>		
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		53.1	4.0	53	55	57					
CON FIR		195.3	14.9	9	10	12					
E SPRUCE		420.5	32.0	1	1	1					
W LARCH		389.1	29.6	1	1	1					
ALP FIR		538.7	41.0	0	1	1					
<b>TOTAL</b>		<b>21.5</b>	<b>1.6</b>	<b>67</b>	<b>68</b>	<b>69</b>	<b>18</b>	<b>5</b>	<b>2</b>		

usfs

**PROJECT DAVIS**

DATE 3/7/2022

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
007	035	12	1	VP	425.00	172	1,166	S	E

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		55.9	4.3	5,116	5,344	5,572			
CON FIR		196.6	15.0	1,071	1,260	1,448			
E SPRUCE		418.7	31.9	76	112	148			
W LARCH		389.1	29.6	78	110	143			
ALP FIR		613.2	46.7	38	72	106			
<b>TOTAL</b>		<i>26.1</i>	<i>2.0</i>	<i>6,761</i>	<i>6,898</i>	<i>7,035</i>	27	7	3

  

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		54.8	4.2	1,039	1,084	1,129			
CON FIR		195.6	14.9	252	296	340			
E SPRUCE		419.3	31.9	19	28	37			
W LARCH		389.1	29.6	18	25	33			
ALP FIR		569.4	43.4	9	16	23			
<b>TOTAL</b>		<i>25.0</i>	<i>1.9</i>	<i>1,421</i>	<i>1,449</i>	<i>1,476</i>	25	6	3

**Log Stock Table - MBF**

T007 R035 S12 TyVP 425.00

**Project: DAVIS**  
**Acres 425.00**

**Page 1**  
**Date 3/7/2022**  
**Time 1:59:29PM**

Spp	S T	So Gr rt de	Log Len	Gross MBF	Def %	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches										
								2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39
LP		PU	16	51		51	2.2			21	24		6					
LP		DO 3M	12	3		3	.1		3									
LP		DO 3M	14	3	50.0	1	.1			1								
LP		DO 3M	15	2		2	.1		2									
LP		DO 3M	16	1,405	11.0	1,251	55.1		35	902	292	22						
LP		PO	8	15		15	.6		15									
LP		PO	9	12	22.5	9	.4		9									
LP		PO	10	5		5	.2		5									
LP		PO	11	27		27	1.2		27									
LP		PO	12	74	5.1	70	3.1		70									
LP		PO	13	25	7.5	24	1.0		24									
LP		PO	14	67	4.7	64	2.8		64									
LP		PO	15	17		17	.8		17									
LP		PO	16	817	10.4	732	32.2		644	88								
LP		Totals		2,524	10.0	2,271	77.5		915	1013	315	22	6					
WF		PU	12	3		3	.5		3									
WF		PU	14	2		2	.3		2									
WF		PU	16	15		15	2.8		8	7								
WF		DO 3M	16	644	19.9	516	96.4		3	58	127	140	95	67	26			
WF		Totals		663	19.3	535	18.3		14	66	127	140	95	67	26			
ES		PU	16	10		10	21.3		10									
ES		DO 3M	16	48	22.2	37	78.7			7		11	19					
ES		Totals		58	18.3	48	1.6		10	7		11	19					
AF		PU	16	6		6	19.7		6									
AF		DO 3M	16	30	18.8	25	80.3			12	12							
AF		Totals		36	15.7	31	1.0		6	12	12							
WL		PU	12	2		2	5.0			2								
WL		DO 3M	14	5		5	10.1			5								
WL		DO 3M	16	44	10.1	40	84.9			6	21	13						
WL		Totals		51	8.8	47	1.6			13	21	13						
Total		All Species		3,333	12.0	2,932	100.0		946	1112	475	186	120	67	26			