

### **District: Klamath/Lake**

## Date: April 20, 2023

## **Cost Summary**

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$146,568.03	(\$100,585.68)	\$45,982.35
		Project Work:	\$0.00
		Advertised Value:	\$45,982.35



#### **District: Klamath/Lake**

### Date: April 20, 2023

### **Timber Description**

#### Location:

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	1	0	90
White Fir	1	0	85
Ponderosa Pine	1	0	90
Western Larch	1	0	90
Other	1	0	100

Volume by Grade	6" - 7"	8"+	12"+	8" - 11"	Pulp	Total
Douglas - Fir	294	1,726	0	0	0	2,020
White Fir	303	485	0	0	0	788
Ponderosa Pine	0	0	166	426	0	592
Western Larch	93	64	0	0	0	157
Other	0	0	0	0	626	626
Total	690	2,275	166	426	626	4,183

 Comments:
 Pond Vales Used: Local Pond Values, January 2023

 Log Markets: La Grande, Elgin, Clarkston, Lewiston

 Other Costs (no Profit & Risk): none

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

 ROAD MAINTENANCE

 General Road Maintenance:

 Limited Use Road 12.91 miles x \$1285.00 per mile = \$16,589.00

 Roadway Brushing 5.5 miles x \$800.00 per mile = \$4,400.00

 Total Road Maintenance:

# Stand Stocking: 60%



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	Log	ging Conditions
Combination#: 1	Douglas - Fir	100.00%
	White Fir	100.00%
	Ponderosa Pine	100.00%
	Western Larch	100.00%
	Other	100.00%
Logging System:	Cut To Length	Process: Harvester Head Delimbing
yarding distance: tree size:	Medium (800 ft) Small / Thinning 10in (90 Bft/tree), 18-:	<b>downhill yarding:</b> No 20 logs/MBF
loads / day:	7	<b>bd. ft / load:</b> 4000
cost / mbf:	\$232.14	
machines:	Harvester	
	Forwarder	



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Logging Costs		
Operating Seasons: 1.00	Profit Risk: 10%	
Project Costs: \$0.00	Other Costs (P/R): \$0.00	
Slash Disposal: \$0.00	Other Costs: \$0.00	

Miles of Road		Road Maintenance:	\$5.02
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	4.0
White Fir	\$0.00	3.0	4.0
Ponderosa Pine	\$0.00	3.0	4.0
Western Larch	\$0.00	3.0	4.0
Other	\$0.00	3.0	3.2



### District: Klamath/Lake

## Date: April 20, 2023

## Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
Douglas -	Fir								
\$232.14	\$5.52	\$4.16	\$114.59	\$0.00	\$35.64	\$0.00	\$2.00	\$0.00	\$394.05
White Fir									
\$232.14	\$5.77	\$4.16	\$119.80	\$0.00	\$36.19	\$0.00	\$2.00	\$0.00	\$400.06
Ponderosa	a Pine								
\$232.14	\$5.52	\$4.16	\$114.59	\$0.00	\$35.64	\$0.00	\$2.00	\$0.00	\$394.05
Western La	arch								
\$232.14	\$5.52	\$4.16	\$114.59	\$0.00	\$35.64	\$0.00	\$2.00	\$0.00	\$394.05
Other									
\$232.14	\$5.02	\$4.16	\$130.21	\$0.00	\$37.15	\$0.00	\$2.00	\$0.00	\$410.68

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$450.00	\$55.95	\$0.00
White Fir	\$0.00	\$430.00	\$29.94	\$0.00
Ponderosa Pine	\$0.00	\$396.03	\$1.98	\$0.00
Western Larch	\$0.00	\$450.00	\$55.95	\$0.00
Other	\$0.00	\$250.00	(\$160.68)	\$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
Western Larch	0	\$0.00	\$0.00
Other	0	\$0.00	\$0.00

#### Unamortized

Specie	MBF	Value	Total
Douglas - Fir	2,020	\$55.95	\$113,019.00
White Fir	788	\$29.94	\$23,592.72
Ponderosa Pine	592	\$1.98	\$1,172.16
Western Larch	157	\$55.95	\$8,784.15
Other	626	(\$160.68)	(\$100,585.68)

	Gross Timber Sale Value		
	Recovery:	\$45,982.35	
Prepared By:	Mike Billman	<b>Phone:</b> 541-362-6760	

# Elbow GNA *KL-341-2024-GF8521-01*

	Maintenance Limited Use Road										
Number of Miles to be Maintained:	12.91										
Cost per Mile:	\$1,285.00										
Total Cost:	\$16,589.35										
Cost/Mbf:	\$ 4.66										

# Elbow GNA KL-341-2024-GF8521-01 Other Costs

Roadway Clearing and Brushing											
Number of Miles to be Maintained:		5.5									
Cost per Mile:	\$	800.00									
Total Cost:	\$	4,400.00									
Cost/Mbf:	\$	1.24									





"STEWARDSHIP IN FORESTRY"

**SALE NAME:** Elbow- GNA

#### **LEGAL DESCRIPTION:**

Portions of Sections 7, 8, 9, 10, 17, 18, and 19 of T5N, R42E, W.M., Wallowa County, Oregon

#### **BOUNDARY LINES**:

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

#### ACREAGE:

Gross Sale Acreage:	506Acres
Exclusion Acreage	0 Acres
Net Sale Acreage:	506Acres

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.

#### **<u>CRUISE METHOD</u>**:

Variable plot cruise with all plots measured.

#### **BASAL AREA FACTOR:**

Area	BAF	<b>Type Acreage</b>			
Area 1	20 BAF	506			

#### **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:**

AREA	CV%	SE%	ACRES				
Area 1	60.5	7.0	506				

#### **TIMBER DESCRIPTION**

### **SAWLOG VOLUME:**

This volume was obtained from the variable plot cruise. All material graded camp run. See grade table for minimum standards.

## **TOTAL SAWLOG VOLUME**

Species	Ave. DBH	Gross Vol/Acre (bf)	Net Vol/Acre (bf)	Net Sale Vol (Mbf)
Douglas-fir	14.0	4,564	4,260	2,020
White fir	12.7	2,117	1,729	788
Western Larch	11.2	396	352	157
Ponderosa pine	13.6	2,283	1,929	592
	Total	9,360	8,271	3,557

## TOTAL NET SAWLOG VOLUME: MBF

	Elbow GNA Timber Sale													
MBF to To	ons Convers	sions												
Species:	MBF	Tons	\$/MBF	Total \$	\$/Ton									
DF/WL	2,177.00	14,822.00	\$54.95	\$119,625.15	\$8.07									
WF	788.00	5,511.00	\$28.81	\$22,702.28	\$4.12									
РР	592.00	3,603.00	\$0.98	\$580.16	\$0.16									
TOTAL:	3,557.00	23,936.00	\$40.18	\$142,897.91	\$6.12									
Pulp (No-Bid														
Species)	628.00	3544.00			\$0.25									
GRAND TOTAL:	4,185.00	27,480.00												

tc pstats USFS		PROJECT STATISTICS PROJECT ELBOW2											
WP RGE	SC	TRACT	1	TYPE		AC	RES	PLOTS	TREES	CuFt	BdFt		
05N 42	17	01	x	VP			506.00	74	318	S	Е		
					TREES		ESTIMATED TOTAL		PERCENT SAMPLE				
		PLOTS	TREES		PER PLOT		TREES		TREES				
TOTAL		74	318		4.3								
CRUISE		19	80		4.2		44,334		.2				
DBH COUNT													
REFOREST													
COUNT		51	238		4.7								
BLANKS		4											
100 %													
				STAN	ND SUMM	ARY							
	S	AMPLE	TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET		
		TREES	/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC		
DOUG FIR		44	36.4	14.0	53	10.4	38.9	4,564		1,012	1,012		
CON FIR		13	24.8	12.7	41	6.1	21.9	2,117		465	465		
PONDEROS		18	21.3	13.6	45	5.9	21.6	2,283		493	493		
W LARCH		5	5.1	11.2	54	1.1	3.5	396		84	84		
TOTAL		80	87.6	13.4	48	23.5	85.9	9,360	8,271	2,054	2,054		
CONFIDEN				VOLUME	WILL BE W	/ITHIN TH	IE SAMPLE E	RROR					
CL 68.1		COEFF			SAMPLE	TREES -	BF		# OF TREES R	EO.	INF. POP.		
SD: 1.0		VAR.%	S.E.%	L	OW	AVG	HIGH		5	10	1		
DOUG FIR		66.5	10.0	L	147	163	HIGH 180		5	10	1		
DOUG FIR CON FIR		66.5 78.6	10.0 22.7	L	147 74	163 96	HIGH 180 118		5	10	1		
DOUG FIR CON FIR PONDEROS		66.5 78.6 58.4	10.0 22.7 14.1	L	147 74 91	163 96 106	HIGH 180 118 121		5	10	1		
DOUG FIR CON FIR		66.5 78.6	10.0 22.7	L(	147 74	163 96	HIGH 180 118		5	<u>    10                                </u>			
DOUG FIR CON FIR PONDEROS W LARCH TOTAL		66.5 78.6 58.4 53.0 71.4	10.0 22.7 14.1 26.4	L(	147 74 91 63 124	163 96 106 86 135	HIGH 180 118 121 109 145		204	51	2		
DOUG FIR CON FIR PONDEROS W LARCH TOTAL CL 68.1		66.5 78.6 58.4 53.0 71.4 COEFF	10.0 22.7 14.1 26.4 8.0		147 74 91 63 <i>124</i> SAMPLE	163 96 106 86 <i>135</i>	HIGH 180 118 121 109 145 CF		204 # OF TREES R	51 EO.	1 2 INF. POP.		
DOUG FIR CON FIR PONDEROS W LARCH TOTAL CL 68.1 SD: 1.0		66.5 78.6 58.4 53.0 71.4 COEFF VAR.%	10.0 22.7 14.1 26.4 8.0 S.E.%		147 74 91 63 <i>124</i> SAMPLE	163 96 106 86 <i>135</i> <b>C TREES -</b> AVG	HIGH 180 118 121 109 <i>145</i> CF HIGH		204	51	2 INF. POP.		
DOUG FIR CON FIR PONDEROS W LARCH TOTAL CL 68.1		66.5 78.6 58.4 53.0 71.4 COEFF	10.0 22.7 14.1 26.4 8.0		147 74 91 63 <i>124</i> SAMPLE	163 96 106 86 <i>135</i>	HIGH 180 118 121 109 145 CF		204 # OF TREES R	51 EO.	2		
DOUG FIR CON FIR PONDEROS W LARCH TOTAL CL 68.1 SD: 1.0 DOUG FIR		66.5 78.6 58.4 53.0 71.4 COEFF VAR.% 56.2	10.0 22.7 14.1 26.4 8.0 S.E.% 8.5		147 74 91 63 <i>124</i> SAMPLE DW 35	163 96 106 86 <i>135</i> <b>C TREES -</b> <u>AVG</u> 38	HIGH 180 118 121 109 <i>145</i> CF HIGH 41		204 # OF TREES R	51 EO.	2 INF. POP.		
DOUG FIR CON FIR PONDEROS W LARCH <b>TOTAL</b> CL 68.1 SD: 1.0 DOUG FIR CON FIR		66.5 78.6 58.4 53.0 71.4 COEFF VAR.% 56.2 80.1	10.0 22.7 14.1 26.4 8.0 <u>S.E.%</u> 8.5 23.1		147 74 91 63 <i>124</i> SAMPLE DW 35 20	163 96 106 86 <i>135</i> <b>TREES -</b> <u>AVG</u> 38 26	HIGH 180 118 121 109 145 CF HIGH 41 32		204 # OF TREES R	51 EO.	2 INF. POP.		
DOUG FIR CON FIR PONDEROS W LARCH TOTAL CL 68.1 SD: 1.0 DOUG FIR CON FIR PONDEROS		66.5 78.6 58.4 53.0 71.4 COEFF VAR.% 56.2 80.1 47.4	10.0 22.7 14.1 26.4 8.0 S.E.% 8.5 23.1 11.5		147 74 91 63 <i>124</i> <b>SAMPLE</b> 5W 35 20 24	163 96 106 86 135 <b>TREES -</b> AVG 38 26 27	HIGH 180 118 121 109 145 CF HIGH 41 32 30		204 # OF TREES R	51 EO.	2 INF. POP. 1		
DOUG FIR CON FIR PONDEROS W LARCH TOTAL CL 68.1 SD: 1.0 DOUG FIR CON FIR PONDEROS W LARCH		66.5 78.6 58.4 53.0 71.4 COEFF VAR.% 56.2 80.1 47.4 62.6	10.0 22.7 14.1 26.4 8.0 S.E.% 8.5 23.1 11.5 31.1		147 74 91 63 <i>124</i> <b>SAMPLE</b> 500 35 20 24 15	163 96 106 86 <i>135</i> <b>TREES -</b> <u>AVG</u> 38 26 27 21 32	HIGH 180 118 121 109 145 CF HIGH 41 32 30 28		204 # OF TREES R 5	51 EO. 10 37	2 INF. POP.		
DOUG FIR CON FIR PONDEROS W LARCH TOTAL CL 68.1 SD: 1.0 DOUG FIR CON FIR PONDEROS W LARCH TOTAL		66.5 78.6 58.4 53.0 71.4 COEFF VAR.% 56.2 80.1 47.4 62.6 61.3	10.0 22.7 14.1 26.4 8.0 S.E.% 8.5 23.1 11.5 31.1	L	147 74 91 63 <i>124</i> <b>SAMPLE</b> 500 35 20 24 15 30	163 96 106 86 <i>135</i> <b>TREES -</b> <u>AVG</u> 38 26 27 21 32	HIGH 180 118 121 109 145 CF HIGH 41 32 30 28		204 # OF TREES R 5 150	51 EO. 10 37	2 INF. POP. 1 <i>1</i>		
DOUG FIR       CON FIR       PONDEROS       W LARCH       TOTAL       CL     68.1       SD:     1.0       DOUG FIR       CON FIR       PONDEROS       W LARCH       TOTAL		66.5 78.6 58.4 53.0 71.4 COEFF VAR.% 56.2 80.1 47.4 62.6 61.3 COEFF	10.0 22.7 14.1 26.4 8.0 S.E.% 8.5 23.1 11.5 31.1 6.8	L	147 74 91 63 <i>124</i> <b>SAMPLE</b> 20 24 15 30 <b>TREES</b> /A	163 96 106 86 135 <b>TREES -</b> AVG 38 26 27 21 32 <b>XCRE</b>	HIGH 180 118 121 109 145 CF HIGH 41 32 30 28 35		204 # OF TREES R 5 150 # OF PLOTS R	51 EO. 10 37 EO.	2 INF. POP. 1 INF. POP.		
DOUG FIR CON FIR PONDEROS W LARCH TOTAL CL 68.1 SD: 1.0 DOUG FIR CON FIR PONDEROS W LARCH TOTAL CL 68.1 SD: 1.0		66.5 78.6 58.4 53.0 71.4 COEFF VAR.% COEFF VAR.%	10.0 22.7 14.1 26.4 8.0 S.E.% 8.5 23.1 11.5 31.1 6.8 S.E.%	L	147 74 91 63 <i>124</i> <b>SAMPLE</b> 20 24 15 20 24 15 30 <b>TREES</b> /A 20W	163 96 106 86 135 <b>TREES -</b> AVG 38 26 27 21 32 21 32 <b>XCRE</b> AVG	HIGH 180 118 121 109 145 CF HIGH 41 32 30 28 35 HIGH		204 # OF TREES R 5 150 # OF PLOTS R	51 EO. 10 37 EO.	2 INF. POP. 1 INF. POP.		
DOUG FIR CON FIR PONDEROS W LARCH TOTAL CL 68.1 SD: 1.0 DOUG FIR PONDEROS W LARCH TOTAL CL 68.1 SD: 1.0 DOUG FIR		66.5 78.6 58.4 53.0 71.4 COEFF VAR.% 56.2 80.1 47.4 62.6 61.3 COEFF VAR.% 129.5 163.9 196.7	10.0 22.7 14.1 26.4 8.0 <u>S.E.%</u> 8.5 23.1 11.5 31.1 6.8 <u>S.E.%</u> 15.0 19.0 22.8	L	147 74 91 63 <i>124</i> <b>SAMPLE</b> 20 24 15 30 <b>TREES</b> /A 20 31 20 16	163 96 106 86 135 <b>TREES -</b> <u>AVG</u> 38 26 27 21 32 <b>XCRE</b> <u>AVG</u> 36 25 21	HIGH 180 118 121 109 145 CF HIGH 41 32 30 28 35 HIGH 42 30 26		204 # OF TREES R 5 150 # OF PLOTS R	51 EO. 10 37 EO.	2 INF. POP. 1 INF. POP.		
DOUG FIR CON FIR PONDEROS W LARCH TOTAL CL 68.1 SD: 1.0 DOUG FIR CON FIR PONDEROS W LARCH TOTAL CL 68.1 SD: 1.0 DOUG FIR CON FIR PONDEROS W LARCH		66.5 78.6 58.4 53.0 71.4 COEFF VAR.% 56.2 80.1 47.4 62.6 61.3 COEFF VAR.% 129.5 163.9 196.7 304.0	10.0 22.7 14.1 26.4 8.0 <u>S.E.%</u> 8.5 23.1 11.5 31.1 6.8 <u>S.E.%</u> 15.0 19.0 22.8 35.3	L	147 74 91 63 <i>124</i> <b>SAMPLE</b> 20 24 15 30 <b>TREES</b> /A 20 31 20 16 3	163 96 106 86 135 <b>TREES -</b> <u>AVG</u> 38 26 27 21 32 <b>CRE</b> <u>AVG</u> 36 25 21 5	HIGH 180 118 121 109 145 CF HIGH 41 32 30 28 35 HIGH 42 30 26 7		204 # OF TREES R 5 150 # OF PLOTS R 5	51 EO. 10 37 EO. 10	2 INF. POP. 1 INF. POP. 1		
DOUG FIR CON FIR PONDEROS W LARCH TOTAL CL 68.1 SD: 1.0 DOUG FIR CON FIR PONDEROS W LARCH TOTAL CL 68.1 SD: 1.0 DOUG FIR CON FIR PONDEROS W LARCH TOTAL		66.5 78.6 58.4 53.0 71.4 COEFF VAR.% 56.2 80.1 47.4 62.6 61.3 COEFF VAR.% 129.5 163.9 196.7 304.0 61.1	10.0 22.7 14.1 26.4 8.0 <u>S.E.%</u> 8.5 23.1 11.5 31.1 6.8 <u>S.E.%</u> 15.0 19.0 22.8	L	147 74 91 63 124 SAMPLE DW 35 20 24 15 30 TREES/A DW 31 20 16 3 81	163 96 106 86 135 <b>TREES -</b> AVG 38 26 27 21 32 <b>XCRE</b> AVG 36 25 21 5 88	HIGH 180 118 121 109 145 CF HIGH 41 32 30 28 35 HIGH 42 30 26 7 94		204 # OF TREES R 5 150 # OF PLOTS R 5 149	51 EO. 10 37 EO. 10 37	2 INF. POP. 1 INF. POP. 1 INF. POP.		
CL 68.1 SD: 1.0 DOUG FIR PONDEROS W LARCH TOTAL CL 68.1 SD: 1.0 DOUG FIR PONDEROS W LARCH TOTAL CL 68.1 SD: 1.0 DOUG FIR PONDEROS W LARCH TOTAL PONDEROS W LARCH TOTAL CL 68.1		66.5 78.6 58.4 53.0 71.4 COEFF VAR.% 56.2 80.1 47.4 62.6 61.3 COEFF VAR.% 129.5 163.9 196.7 304.0 61.1 COEFF	10.0 22.7 14.1 26.4 8.0 S.E.% 8.5 23.1 11.5 31.1 6.8 S.E.% 15.0 19.0 22.8 35.3 7.1	L(	147 74 91 63 124 SAMPLE DW 35 20 24 15 30 TREES/A DW 31 20 16 3 81 BASAL A	163 96 106 86 135 <b>C TREES -</b> AVG 38 26 27 21 32 <b>CRE</b> AVG 36 25 21 5 88 <b>CRE</b>	HIGH 180 118 121 109 145 CF HIGH 41 32 30 28 35 HIGH 42 30 26 7 94 RE		204 # OF TREES R 5 <i>150</i> # OF PLOTS R 5 <i>149</i> # OF PLOTS R	51 EO. 10 37 EO. 10 37 EO.	2 INF. POP. 1 INF. POP. 1 INF. POP.		
DOUG FIR CON FIR PONDEROS W LARCH TOTAL CL 68.1 SD: 1.0 DOUG FIR PONDEROS W LARCH TOTAL CL 68.1 SD: 1.0 DOUG FIR CON FIR PONDEROS W LARCH TOTAL CL 68.1 SD: 1.0		66.5 78.6 58.4 53.0 71.4 COEFF VAR.% 56.2 80.1 47.4 62.6 61.3 COEFF VAR.% 129.5 163.9 196.7 304.0 61.1	10.0 22.7 14.1 26.4 8.0 <u>S.E.%</u> 8.5 23.1 11.5 31.1 6.8 <u>S.E.%</u> 15.0 19.0 22.8 35.3	L(	147 74 91 63 124 SAMPLE DW 35 20 24 15 30 TREES/A DW 31 20 16 3 81	163 96 106 86 135 <b>TREES -</b> AVG 38 26 27 21 32 <b>XCRE</b> AVG 36 25 21 5 88	HIGH 180 118 121 109 145 CF HIGH 41 32 30 28 35 HIGH 42 30 26 7 94		204 # OF TREES R 5 150 # OF PLOTS R 5 149	51 EO. 10 37 EO. 10 37	2 INF. POP. 1 INF. POP. 1 INF. POP.		
DOUG FIR CON FIR PONDEROS W LARCH TOTAL CL 68.1 SD: 1.0 DOUG FIR PONDEROS W LARCH TOTAL CL 68.1 SD: 1.0 DOUG FIR PONDEROS W LARCH TOTAL CN FIR PONDEROS W LARCH TOTAL CL 68.1 SD: 1.0 DOUG FIR		66.5 78.6 58.4 53.0 71.4 COEFF VAR.% 56.2 80.1 47.4 62.6 61.3 COEFF VAR.%	10.0 22.7 14.1 26.4 8.0 S.E.% 8.5 23.1 11.5 31.1 6.8 S.E.% 15.0 19.0 22.8 35.3 7.1 S.E.%	L(	147 74 91 63 124 SAMPLE DW 35 20 24 15 30 TREES/A DW 31 20 16 3 81 BASAL A DW	163 96 106 86 135 <b>TREES -</b> <u>AVG</u> 38 26 27 21 32 <b>XCRE</b> <u>AVG</u> 36 25 21 5 88 <b>XREA/AC</b> <u>AVG</u>	HIGH 180 118 121 109 145 CF HIGH 41 32 30 28 35 HIGH 42 30 26 7 94 RE HIGH		204 # OF TREES R 5 <i>150</i> # OF PLOTS R 5 <i>149</i> # OF PLOTS R	51 EO. 10 37 EO. 10 37 EO.	2 INF. POP. 1 INF. POP. 1 INF. POP.		
DOUG FIR CON FIR PONDEROS W LARCH TOTAL CL 68.1 SD: 1.0 DOUG FIR PONDEROS W LARCH TOTAL CL 68.1 SD: 1.0 DOUG FIR CON FIR PONDEROS W LARCH TOTAL CL 68.1 SD: 1.0		66.5 78.6 58.4 53.0 71.4 COEFF VAR.% 56.2 80.1 47.4 62.6 61.3 COEFF VAR.% 129.5 163.9 196.7 304.0 61.1 COEFF VAR.% 123.5	10.0 22.7 14.1 26.4 8.0 <u>S.E.%</u> 8.5 23.1 11.5 31.1 6.8 <u>S.E.%</u> 15.0 19.0 22.8 35.3 7.1 <u>S.E.%</u> 14.3	L(	147 74 91 63 124 SAMPLE DW 35 20 24 15 30 TREES/A DW 31 20 16 3 81 BASAL A DW 33	163 96 106 86 135 <b>TREES -</b> AVG 38 26 27 21 32 <b>AVG</b> 36 25 21 5 88 <b>AVG</b> 39	HIGH 180 118 121 109 145 CF HIGH 41 32 30 28 35 HIGH 42 30 26 7 94 RE HIGH 45		204 # OF TREES R 5 <i>150</i> # OF PLOTS R 5 <i>149</i> # OF PLOTS R	51 EO. 10 37 EO. 10 37 EO.	2 INF. POP. 1 INF. POP. 1 INF. POP.		
DOUG FIR CON FIR PONDEROS W LARCH TOTAL CL 68.1 SD: 1.0 DOUG FIR PONDEROS W LARCH TOTAL CL 68.1 SD: 1.0 DOUG FIR PONDEROS W LARCH TOTAL CL 68.1 SD: 1.0 DOUG FIR CON FIR CON FIR		66.5 78.6 58.4 53.0 71.4 COEFF VAR.% 56.2 80.1 47.4 62.6 61.3 COEFF VAR.% 129.5 163.9 196.7 304.0 61.1 COEFF VAR.% 123.5 159.4	10.0 22.7 14.1 26.4 8.0 <u>S.E.%</u> 8.5 23.1 11.5 31.1 6.8 <u>S.E.%</u> 15.0 19.0 22.8 35.3 7.1 <u>S.E.%</u> 14.3 18.5	L(	147 74 91 63 <i>124</i> <b>SAMPLE</b> 20 24 15 30 <b>TREES</b> /A 20 31 20 16 3 81 <b>BASAL</b> A 20 33 18	163 96 106 86 135 <b>TREES -</b> AVG 38 26 27 21 32 <b>CRE</b> AVG 36 25 21 5 88 <b>CRE</b> AVG 36 25 21 5 88 <b>CRE</b> 4VG 36 25 21 5 88	HIGH 180 118 121 109 145 CF HIGH 41 32 30 28 35 HIGH 42 30 26 7 94 RE HIGH 45 26		204 # OF TREES R 5 <i>150</i> # OF PLOTS R 5 <i>149</i> # OF PLOTS R	51 EO. 10 37 EO. 10 37 EO.	2 INF. POP. 1 INF. POP. 1 INF. POP.		
DOUG FIR PONDEROS W LARCH TOTAL CL 68.1 SD: 1.0 DOUG FIR PONDEROS W LARCH TOTAL CL 68.1 SD: 1.0 DOUG FIR PONDEROS W LARCH TOTAL CL 68.1 SD: 1.0 DOUG FIR PONDEROS W LARCH TOTAL CL 68.1 SD: 1.0 DOUG FIR PONDEROS		66.5 78.6 58.4 53.0 71.4 COEFF VAR.% 56.2 80.1 47.4 62.6 61.3 COEFF VAR.% 129.5 163.9 196.7 304.0 61.1 COEFF VAR.% 123.5 159.4 198.3	10.0 22.7 14.1 26.4 8.0 S.E.% 8.5 23.1 11.5 31.1 6.8 S.E.% 15.0 19.0 22.8 35.3 7.1 S.E.% 14.3 18.5 23.0	L(	147 74 91 63 <i>124</i> <b>SAMPLE</b> 20 24 15 30 <b>TREES</b> /A 20 31 20 16 3 81 <b>BASAL</b> A 20 33 18 17	163 96 106 86 135 <b>TREES -</b> AVG 38 26 27 21 32 <b>CRE</b> AVG 36 25 21 5 88 <b>CRE</b> AVG 39 22 22	HIGH 180 118 121 109 145 CF HIGH 41 32 30 28 35 HIGH 42 30 26 7 94 RE HIGH 45 26 27		204 # OF TREES R 5 <i>150</i> # OF PLOTS R 5 <i>149</i> # OF PLOTS R	51 EO. 10 37 EO. 10 37 EO.	2 INF. POP. 1 INF. POP. 1 INF. POP. 1		
DOUG FIR PONDEROS W LARCH TOTAL CL 68.1 SD: 1.0 DOUG FIR PONDEROS W LARCH TOTAL CL 68.1 SD: 1.0 DOUG FIR PONDEROS W LARCH TOTAL CL 68.1 SD: 1.0 DOUG FIR PONDEROS W LARCH TOTAL CL 68.1 SD: 1.0 DOUG FIR PONDEROS W LARCH		66.5 78.6 58.4 53.0 71.4 COEFF VAR.% 56.2 80.1 47.4 62.6 61.3 COEFF VAR.% 129.5 163.9 196.7 304.0 61.1 COEFF VAR.% 123.5 159.4 198.3 288.2	10.0 22.7 14.1 26.4 8.0 S.E.% 8.5 23.1 11.5 31.1 6.8 S.E.% 15.0 19.0 22.8 35.3 7.1 S.E.% 14.3 18.5 23.0 33.5	L(	147 74 91 63 124 SAMPLE DW 35 20 24 15 30 TREES/A DW 31 20 16 3 81 BASAL A DW 33 18 17 2	163 96 106 86 135 <b>CTREES -</b> AVG 38 26 27 21 32 <b>CRE</b> AVG 36 25 21 5 88 <b>CRE</b> AVG 39 22 22 4 86	HIGH 180 118 121 109 145 CF HIGH 41 32 30 28 35 HIGH 42 30 26 7 94 RE HIGH 45 26 27 5		204 # OF TREES R 5 150 # OF PLOTS R 5 149 # OF PLOTS R 5	51 EO. 10 37 EO. 10 37 EO. 10 36	2 INF. POP. 1 INF. POP. 1 INF. POP. 1		
DOUG FIR CON FIR PONDEROS W LARCH TOTAL CL 68.1 SD: 1.0 DOUG FIR CON FIR PONDEROS W LARCH TOTAL CL 68.1 SD: 1.0 DOUG FIR CON FIR PONDEROS W LARCH TOTAL CL 68.1 SD: 1.0 DOUG FIR CON FIR PONDEROS W LARCH TOTAL		66.5 78.6 58.4 53.0 71.4 COEFF VAR.% 56.2 80.1 47.4 62.6 61.3 COEFF VAR.% 129.5 163.9 196.7 304.0 61.1 COEFF VAR.% 123.5 159.4 198.3 288.2 59.6	10.0 22.7 14.1 26.4 8.0 S.E.% 8.5 23.1 11.5 31.1 6.8 S.E.% 15.0 19.0 22.8 35.3 7.1 S.E.% 14.3 18.5 23.0 33.5		147 74 91 63 <i>124</i> <b>SAMPLE</b> 20 24 15 30 <b>TREES/A</b> 20 24 15 30 <b>TREES/A</b> 20 16 3 81 <b>BASAL</b> A 20 16 3 81 <b>BASAL</b> A 20 20 24 20 24 15 30 <b>TREES/A</b> 20 24 20 24 15 30 <b>TREES/A</b> 20 24 20 24 15 30 <b>TREES/A</b> 20 24 20 24 15 30 <b>TREES/A</b> 20 24 20 20 24 20 20 24 20 20 24 20 20 24 20 20 20 20 20 20 20 20 20 20 20 20 20	163 96 106 86 135 <b>CTREES -</b> AVG 38 26 27 21 32 <b>CRE</b> AVG 36 25 21 5 88 <b>CRE</b> AVG 39 22 22 4 86	HIGH 180 118 121 109 145 CF HIGH 41 32 30 28 35 HIGH 42 30 26 7 94 RE HIGH 45 26 27 5		204 # OF TREES R 5 150 # OF PLOTS R 5 149 # OF PLOTS R 5 142	51 EO. 10 37 EO. 10 37 EO. 10 36	2 INF. POP. 1 INF. POP. 1 INF. POP. 1 INF. POP.		
DOUG FIR PONDEROS W LARCH TOTAL CL 68.1 SD: 1.0 DOUG FIR PONDEROS W LARCH TOTAL CL 68.1 SD: 1.0 DOUG FIR PONDEROS W LARCH TOTAL CL 68.1 SD: 1.0 DOUG FIR PONDEROS W LARCH TOTAL CON FIR PONDEROS W LARCH TOTAL CON FIR PONDEROS W LARCH TOTAL CON FIR PONDEROS W LARCH TOTAL CON FIR PONDEROS M LARCH TOTAL CON FIR PONDEROS M LARCH CON FIR PONDEROS		66.5 78.6 58.4 53.0 71.4 COEFF VAR.% 56.2 80.1 47.4 62.6 61.3 COEFF VAR.% 129.5 163.9 196.7 304.0 61.1 COEFF VAR.% 123.5 159.4 198.3 288.2 59.6 COEFF	10.0 22.7 14.1 26.4 8.0 <u>S.E.%</u> 8.5 23.1 11.5 31.1 6.8 <u>S.E.%</u> 15.0 19.0 22.8 35.3 7.1 <u>S.E.%</u> 14.3 18.5 23.0 33.5 6.9		147 74 91 63 124 SAMPLE DW 35 20 24 15 30 TREES/A DW 31 20 16 3 81 BASAL A DW 33 18 17 2 80 NET BF/	163 96 106 86 135 <b>TREES -</b> AVG 38 26 27 21 32 <b>XCRE</b> AVG 36 25 21 5 88 <b>XREA/AC</b> AVG 39 22 22 4 86 <b>ACRE</b>	HIGH         180         118         121         109         145         CF         HIGH         41         32         30         28         35         HIGH         42         30         26         7         94         RE         HIGH         45         26         27         5         92		204 # OF TREES R 5 150 # OF PLOTS R 5 149 # OF PLOTS R 5 142 # OF PLOTS R	51 EO. 10 37 EO. 10 37 EO. 10 36 EO.	2 INF. POP. 1 INF. POP. 1 INF. POP. 1 INF. POP.		
DOUG FIR PONDEROS W LARCH TOTAL CL 68.1 SD: 1.0 DOUG FIR PONDEROS W LARCH TOTAL CL 68.1 SD: 1.0 DOUG FIR PONDEROS W LARCH TOTAL CL 68.1 SD: 1.0 DOUG FIR PONDEROS W LARCH TOTAL CL 68.1 SD: 1.0 CON FIR PONDEROS W LARCH TOTAL CON FIR PONDEROS W LARCH TOTAL CON FIR PONDEROS W LARCH TOTAL CON FIR PONDEROS W LARCH TOTAL CON FIR PONDEROS W LARCH TOTAL		66.5 78.6 58.4 53.0 71.4 COEFF VAR.% 56.2 80.1 47.4 62.6 61.3 COEFF VAR.% 129.5 163.9 196.7 304.0 61.1 COEFF VAR.% 123.5 159.4 198.3 288.2 59.6 COEFF VAR.%	10.0 22.7 14.1 26.4 8.0 S.E.% 8.5 23.1 11.5 31.1 6.8 S.E.% 15.0 19.0 22.8 35.3 7.1 S.E.% 14.3 18.5 23.0 33.5 6.9 S.E.%		147 74 91 63 124 SAMPLE DW 35 20 24 15 30 TREES/A DW 31 20 16 3 81 BASAL A DW 33 18 17 2 80 NET BF/ DW	163 96 106 86 135 <b>TREES</b> - AVG 38 26 27 21 32 <b>CRE</b> AVG 36 25 21 5 88 <b>AREA/AC</b> 39 22 22 4 86 <b>ACRE</b> 486 <b>ACRE</b> AVG	HIGH 180 118 121 109 145 CF HIGH 41 32 30 28 35 HIGH 42 30 26 7 94 RE HIGH 45 26 27 5 92 HIGH		204 # OF TREES R 5 150 # OF PLOTS R 5 149 # OF PLOTS R 5 142 # OF PLOTS R	51 EO. 10 37 EO. 10 37 EO. 10 36 EO.	2 INF. POP. 1 INF. POP. 1 INF. POP. 1 INF. POP.		

TC PSTATS USFS				PROJECT PROJECT		STICS BOW2			PAGE DATE	<b>2</b> 11/8/2022	
TWP	RGE	SC	TRACT	TYI	PE	A	CRES	PLOTS	TREES	CuFt	BdFt
05N	42	17	01	VP			506.00	74	318	S	Е
CL	68.1		COEFF		NET BF	/ACRE			# OF PLOT	S REO.	INF. POP.
SD:	1.00		VAR.	S.E.%	LOW	AVG	HIGH		5	10	15
W LA	RCH		285.2	33.1	235	352	468				
тот	AL		60.5	7.0	7,689	8,271	8,852		146	37	16
CL	68.1		COEFF		NET CU	JFT FT/A	CRE		# OF PLOTS R	EO.	INF. POP.
SD:	1.0		VAR.%	S.E.%	LOW	AVG	HIGH		5	10	15
DOU	G FIR		122.7	14.3	868	1,012	1,156				
CON	FIR		158.0	18.4	379	465	550				
PONI	DEROS		197.2	22.9	380	493	606				
W LA	RCH		284.4	33.0	57	84	112				
TOT	AL		59.8	7.0	1,911	2,054	2,197		143	36	16

T P USFS	PLO	GSTVB					Log S	stock Tab	le -	MBF								]
T05N	1 R4	12E S 17 T	уVР	506	5.00		Proje Acres		ELB	OW2 500	OW2 506.00						1 8/2022 50:07PM	
	s	So Gr	Log	Gross M		Net	%			let Volu	me by S	caling Dia	mete	r in Inch	les	r	[	
Spp	Т	rt de	Len	MBF	%	MBF	Spc	2-3 4-:	5	6-7	8-9	10-11 12	2-13	14-15	16-19	20-23 24-2	30-3 40+	
WF		PU	16	86		86	9.8		86							WF	861	NBF
WF		DO	14	25	50.0	12	1.4			12								
WF		DO	16	960	19.1	776	88.7			291	136	95	183	71		WF	788	MBF
WF		Tota	ls	1,071	18.3	875	20.9		<del>86</del> -				-183					
DF		PU	12	8		8	.4			8	1							-
DF		PU	16	129		129	6.0		57	71						DF	136	MBF
DF		DO	12	56	12.6	49	2.3			49								
DF		DO	14	91	5.8	86	4.0			86								
DF		DO	16	2,026	7.0	1,885	87.4			159	431	571	557	167		DF	2020	MBF
DF	4	Tota	ıls	2,309	6.7	2,156	51.5		-57	373	-431-	<u> </u>	- 557					
WL		PU	16	20		20	11.4		20							WL	20	MSF
WL		DO	12	21		21	12.0			21								
WL		DO	14	9		9	5.3			9								
WL		DO	16	149	. 14.9	127	71.3			63	35	29				WL	157	MBF
WL		Tota	ils	200	11.1	178	4.3		20-									
PP		PU	16	14		14	1.5				14	)				PP	384	MBF
PP		DO	16	1,141	15.7	962	98.5			370	191	235	166			PP	592	MBF
РР		Tota	ls	1,155	15.5	976	23.3			<del>370</del>	206	235	-166					
Total		All Spec	ies	4,736	11.6	4,185	100.0		164	1140	807	931	905	238	3		4,183	MBF

Sawley 3,557 MBF Pulp/Fiber 626 MBF 4,183 MBF

TC I USFS		GSTVT				]	Project I	Log Stoc	k Table	- TONS								]
T051	N R4	2E S17 Ty	/VP	506	.00	Project: ELBOW2 Acres 506.00									Page         1           Date         1/3/2023           Time         1:16:00PM			
	s	So Gr	Log		%				Tons	y Scaling	Diamete	er in Inch	es			1		]
Spp	Т	rt de	Len	TONS	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		PU	16	365	6.2		365								NF		365	Tons
WF WF		DO DO	14 16	101 5,410	1.7 92.1			101 1851	1317	510	1023	709			NF		511	Tons
WF		Tota	ls	5,877	21.4		-965-	1952	1317	510	1023	709					,	
DF DF		PU PU	12 16	53 680	.4 4.7		307	53 373						7	DF		<b>1</b> 22	Tons
DF DF		DO DO	12 14	497 644	3.4 4.4			497										(en
DF		DO	16	12,723	87.2			979	3650	3467	3535	1091		E	F	13	,863	Tons
DF		Tota	ls	14,597	53.1		<del>307</del>		3650		3535	1091	د					
WL		PU	16	65	6.3		65		1						UL		45	Tons
WL WL		DO DO	12 14	36	15.1 3.6			154 36										
WL		DO	16	769	75.0			384	211	174				L	NL		959	Tons
WL	_	Tota		1,025	3.7		-65-			171								
PP		PU	16	75	1.3				75						PP	2	381	Bas
РР		DO	16	5,909	98.7			2306	1210	1374	1019				PP	3,	603	Tons
РР		Tota	ls	5,984	21.8			2306	-1285	-1374	-1019							
Total		All Speci	ies	27,482	100.0		737	7379	6463	5525	5577	1800				27	480	Tons

Saulog 23,936 Tons Rulp/Triber 3,544 Tons 27,480 Tons