



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal  
Black Bark Salvage  
Sale KL-343-2022-W00938-01

District: Klamath/Lake

Date: August 16, 2021

---

**Cost Summary**

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$33,429.50	\$0.00	\$33,429.50
		Project Work:	(\$24,902.45)
		Advertised Value:	\$8,527.05



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal  
Black Bark Salvage  
Sale KL-343-2022-W00938-01

District: Klamath/Lake

Date: August 16, 2021

---

**Timber Description**

Location:

Stand Stocking: 20%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Ponderosa Pine	16	0	92

Volume by Grade	Camprun	Total
Ponderosa Pine	695	695
Total	695	695

**Comments:** Pond Values Used: Local Pond Values, July, 2020.

Log Markets: Klamath Falls and Medford.

Other Costs (no Profit & Risk): None

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

ROAD MAINTENANCE

USFS Road Use fee: \$4,256.31 (\$6.12 per Mbf)



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal  
Black Bark Salvage  
Sale KL-343-2022-W00938-01

District: Klamath/Lake

Date: August 16, 2021

---

**Logging Conditions**

<b>Combination#:</b> 1	Ponderosa Pine	56.00%
<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>	10	<b>bd. ft / load:</b> 4100
<b>cost / mbf:</b>	\$92.60	
<b>machines:</b>	Log Loader (B) Stroke Delimber (B) Feller Buncher w/ Delimber Tire Skidder	

---

<b>Combination#:</b> 2	Ponderosa Pine	44.00%
<b>Logging System:</b>	Track Skidder	<b>Process:</b> Manual Falling/Delimbing
<b>yarding distance:</b>	Medium (800 ft)	<b>downhill yarding:</b> Yes
<b>tree size:</b>	Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF	
<b>loads / day:</b>	10	<b>bd. ft / load:</b> 4100
<b>cost / mbf:</b>	\$107.58	
<b>machines:</b>	Log Loader (B) Track Skidder	

---



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal  
Black Bark Salvage  
Sale KL-343-2022-W00938-01

District: Klamath/Lake

Date: August 16, 2021

### Logging Costs

Operating Seasons: 1.00	Profit Risk: 10%
Project Costs: \$24,902.45	Other Costs (P/R): \$0.00
Slash Disposal: \$0.00	Other Costs: \$0.00

Miles of Road

Road Maintenance: \$6.12

Dirt	Rock (Contractor)	Rock (State)	Paved
0.0	0.0	0.0	0.0

Hauling Costs

Species	\$ / MBF	Trips/Day	MBF / Load
Sugar Pine	\$0.00	2.0	4.1
Ponderosa Pine	\$0.00	2.0	4.1



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal  
Black Bark Salvage  
Sale KL-343-2022-W00938-01

District: Klamath/Lake

Date: August 16, 2021

### Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
<b>Ponderosa Pine</b>									
\$99.19	\$6.61	\$6.32	\$125.12	\$0.00	\$23.72	\$0.00	\$2.00	\$0.00	\$262.96

Specie	Amortization	Pond Value	Stumpage	Amortized
Ponderosa Pine	\$0.00	\$311.06	\$48.10	\$0.00



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal  
Black Bark Salvage  
Sale KL-343-2022-W00938-01

District: Klamath/Lake

Date: August 16, 2021

---

**Summary**

**Amortized**

Specie	MBF	Value	Total
Ponderosa Pine	0	\$0.00	\$0.00

**Unamortized**

Specie	MBF	Value	Total
Ponderosa Pine	695	\$48.10	\$33,429.50

**Gross Timber Sale Value**

**Recovery:** \$33,429.50

**Prepared By:** Chris Weekly

**Phone:** 541-883-5681

Black Bark Salvage  
KL-343-2022-W00938-01

*Other Costs*

*Road Use Fee*

Purchaser of the Black Bark Salvage Timber Sale will be required to obtain a road use permit from the USDA Forest Service in order to haul on approximately 4.14 miles of Forest Road 30 and 0.7 miles of the 3000-015 road. The road use permit fees for the haul is \$6.12 per Mbf.

Any exchange of project work in lieu of road use fees will need to be negotiated between the purchaser and the USDA Forest Service.

Estimated Fee Totals

USFS Road Use Permit Fees: \$6.12 per Mbf  
Cruised Sale Volume: 695 Mbf  
**Total Cost: \$4,256.31**

PP	587	84%	Average Load	4.1 MBF	No. of Loads	143
SP	<u>108</u>	16%	Average Load	4.1 MBF	No. of Loads	<u>26</u>
	695				<b>Total Loads</b>	<b>170</b>

Assume: 4 Trucks/Day  
2 Trips/Day  
**8 Loads per Day**

Black Bark Salvage  
KL-343-2022-W00938-01

*Project Costs*

*Project #1 Road Improvement*

Move in Cost Dozer: \$400.00  
Move in Cost Grader: \$400.00

**Improvement**

	Points	Distance (ft)	Feet/Hour	Hours	Cost/Hour	Cost
Open/Clear/Shape	A to B	2446	1000	2.4	\$132.50	\$324.10
Open/Clear/Shape	C to F	2312	1000	2.3	\$132.50	\$306.34
Open/Clear/Shape	D to E	1902	1000	1.9	\$132.50	\$252.02
	Total	6660			Total	\$882.45

*Project #1 Summary*

Move in: \$800.00  
Open/Clear Shape: \$882.45  
**Project #1 Total: \$1,682.45**  
per Mbf: \$2.42

*Project 2 Landing Slash Piling*

Number of Landings: 10

Shovel Time:	1 Hour per Landing	Cost per Hour: \$125.00	Total Cost \$1,250.00
Cat Time:	1 Hour per Landing	Cost per Hour: \$132.50	Total Cost \$1,325.00

**Total** \$2,575.00  
per MBF \$3.71



Black Bark Salvage  
KL-343-2022-W00938-01

*Project Costs*

*Project 3 Fell and Scatter Submerchantable material*

*Fell and Scatter*

Sub saw Volume: 50 mbf

Fell and Scatter/Mbf: \$35.00

Total \$1,750.00

*Return and Scatter*

Shovel Time: 60 Hours \$125.00 per hour \$7,500.00

Skidder Time: 60 Hours \$132.50 per hour \$7,950.00

Total \$15,450.00

*Project 3 Summary*

Fell and Scatter \$1,750.00

Return and Scatter \$15,450.00

**Total \$17,200.00**

per Mbf \$24.75

Black Bark Salvage  
KL-343-2022-W00938-01

*Project Costs*

*Project #4 Road Closure and Waterbarring*

*Road Closures*

1	Number of Closure Points - Point A
\$132.50	Cost per Hour (Cat)
<b>\$132.50</b>	<b>Total</b>
\$0.19	per Mbf

*Skid Trail Waterbarring*

10	Number of Landings
2.5	Hours per Landing
\$132.50	Cost per Hour (Cat)
<b>\$3,312.50</b>	<b>Total</b>
\$4.77	per Mbf

*Project #4 Summary*

Road Closure:	\$132.50
Waterbarring:	\$3,312.50
<b>Total:</b>	<b>\$3,445.00</b>
per Mbf:	\$4.96

*Cost Summary All Projects*

\$1,682.45	Project #1 Road Improvement
\$2,575.00	Project #2 Landing Slash Piling
\$17,200.00	Project #3 Fell and Scatter Submerchantable Trees
\$3,445.00	Project #4 Road Closure and Waterbarring
<b>\$24,902.45</b>	<b>Total</b>
\$35.83	per MBF

# Black Bark Salvage

KL-343-2022-W00938-01

## Cruise Report



**SALE NAME:** Black Bark Salvage

**LEGAL DESCRIPTION:**

Portions of Section 32, Township 33 South, Range 14 East. Portions of Section 5, Township 34 South, Range 14 East, Willamette Meridian, Klamath County, Oregon.

**ACREAGE:**

The timber sale is 161 acres. Approximately 7 acres of the sale was previously harvested in group selections. These acres will be removed from the cruise as no merchantable trees remain.

Acreage was determined using data collected using GPS and compiled using ArcMap.

**TREATMENT:**

The timber sale is a fire salvage. All trees containing at least 50% net sawlog volume will be removed reserving a minimum of 5 snags per acre.

**CRUISE METHOD:**

Merchantable volume on the timber sale was sampled using a variable plot cruise with a ratio of one measure plot for every two count plots.

**BASAL AREA FACTOR:**

Plots were cruised with either a 10 or 13.61 BAF depending on stand condition.

**FIXED PLOT:**

Stand	Radius	Type Acreage
Area	16.6	454

**PLOT DESIGNATION:**

Plot centers were established at every plot with pin flags and candy stripe blue and white flagging attached to the nearest available tree branch listing the plot number.

**SAMPLE SIZE:**

25 plots

Measurements and Grading:

- DBH and Height were measured on all “in” trees for measure plots.
- Submerch volume and sawlog volume cruised.
- See attached species and grade tables for minimum requirements.
- 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:**

10” 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 form factor.

**FORM POINT:**

All trees were sighted at D.B.H.

**VOLUME COMPUTATION:**

All cruise data was compiled using SuperACE.

**FINAL CRUISE RESULTS:**

STAND	CV%	SE%	Acres
Combined Units	75	15	154

**Measurements and Grading:**

- Ratio of a count plot for every measure plot.
- DBH and Height were measured on all "in" trees for measure plots.
- Pulp volume and sawlog volume cruised.
- See attached species and grade tables for minimum requirements.
- All trees were graded using the segment system.

### **TIMBER DESCRIPTION**

#### **SAWLOG VOLUME:**

All material graded camprun. See grade table for minimum standards.

<b>Species</b>	<b>Average DBH</b>	<b>Acres</b>	<b>Gross Volume per acre (bf/acre)</b>	<b>Net Volume per acre (bf/acre)</b>	<b>Net Volume per unit (Mbf)</b>
Ponderosa pine	16.3	154	3,849	3,814	587
Sugar pine	17.0	154	699	699	108
Combined	16.4	154	4,548	4,513	695

**TOTAL NET SAWLOG VOLUME: 695 MBF**

TC TSTATS				STATISTICS				PAGE	1			
				PROJECT	BBSAL			DATE	8/24/2021			
TWP	RGE	SECT	TRACT	TYPE	ACRES		PLOTS	TREES	CuFt	BdFt		
034	014	05	454	VARI	154.00		25	108	1	E		
				TREES	ESTIMATED		PERCENT					
				PER PLOT	TOTAL		SAMPLE					
					TREES		TREES					
TOTAL			25	108	4.3							
CRUISE			8	33	4.1		5,511		.6			
DBH COUNT												
REFOREST												
COUNT			16	75	4.7							
BLANKS			1									
100 %												
STAND SUMMARY												
SAMPLE			TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET	
TREES			/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC	
P PINE			27	30.4	16.3	41	10.9	43.9	3,934	3,899	956	956
SUG PINE			6	5.4	17.0	43	2.0	8.4	699	699	177	177
TOTAL			33	35.8	16.4	41	12.9	52.3	4,633	4,598	1,133	1,133
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		
P PINE			100.1	19.6	158	197	235					
SUG PINE			65.8	29.3	111	157	203					
TOTAL			96.5	16.8	158	189	221	372	93	41		
CL:	68.1 %	COEFF	SAMPLE TREES - CF					# OF TREES REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5		10	15		
P PINE			82.1	16.1	39	46	54					
SUG PINE			52.9	23.6	29	38	47					
TOTAL			78.8	13.7	39	45	51	248	62	28		
CL:	68.1 %	COEFF	TREES/ACRE					# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5		10	15		
P PINE			92.1	18.8	25	30	36					
SUG PINE			139.6	28.5	4	5	7					
TOTAL			79.5	16.2	30	36	42	263	66	29		
CL:	68.1 %	COEFF	BASAL AREA/ACRE					# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5		10	15		
P PINE			87.1	17.8	36	44	52					
SUG PINE			142.2	29.0	6	8	11					
TOTAL			75.2	15.3	44	52	60	235	59	26		
CL:	68.1 %	COEFF	NET BF/ACRE					# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5		10	15		
P PINE			86.2	17.6	3,214	3,899	4,585					
SUG PINE			150.7	30.7	484	699	914					
TOTAL			75.5	15.4	3,890	4,598	5,306	237	59	26		
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		
P PINE			85.7	17.5	789	956	1,123					
SUG PINE			146.6	29.9	124	177	230					
TOTAL			74.7	15.2	960	1,133	1,305	232	58	26		

Stand Table Summary

TC  
ISTINDSUM  
Project  
BBSAL

T034 R014 S0: T034 R014 S05 TVARI

Page: 1

Twp  
034

Rge  
014

Sec  
05

Tract  
454

Date:  
08/16/2021

Type  
VARI

Acres  
160.00

Plots  
25

Sample Trees  
33

Time:  
11:42:50 AM

Net  
Acre

Net  
Acre

Net  
Acre

Net  
Acre

Net  
Acre

Net  
Acre

Net  
Acre

Net  
Acre

Net  
Acre

Net  
Acre

Net  
Acre

Net  
Acre

Net  
Acre

Net  
Acre

Net  
Acre

Net  
Acre

Net  
Acre

Net  
Acre

Net  
Acre

Net  
Acre

Net  
Acre

Net  
Acre

Net  
Acre

Net  
Acre

Net  
Acre

Net  
Acre

Net  
Acre

Net  
Acre

Net  
Acre

Net  
Acre

Net  
Acre

Net  
Acre

Net  
Acre

Net  
Acre

Net  
Acre

Net  
Acre

Net  
Acre

Net  
Acre

Net  
Acre

Net  
Acre

Net  
Acre

Net  
Acre

Net  
Acre

Net  
Acre

Net  
Acre

Net  
Acre

Net  
Acre

Net  
Acre

Net  
Acre

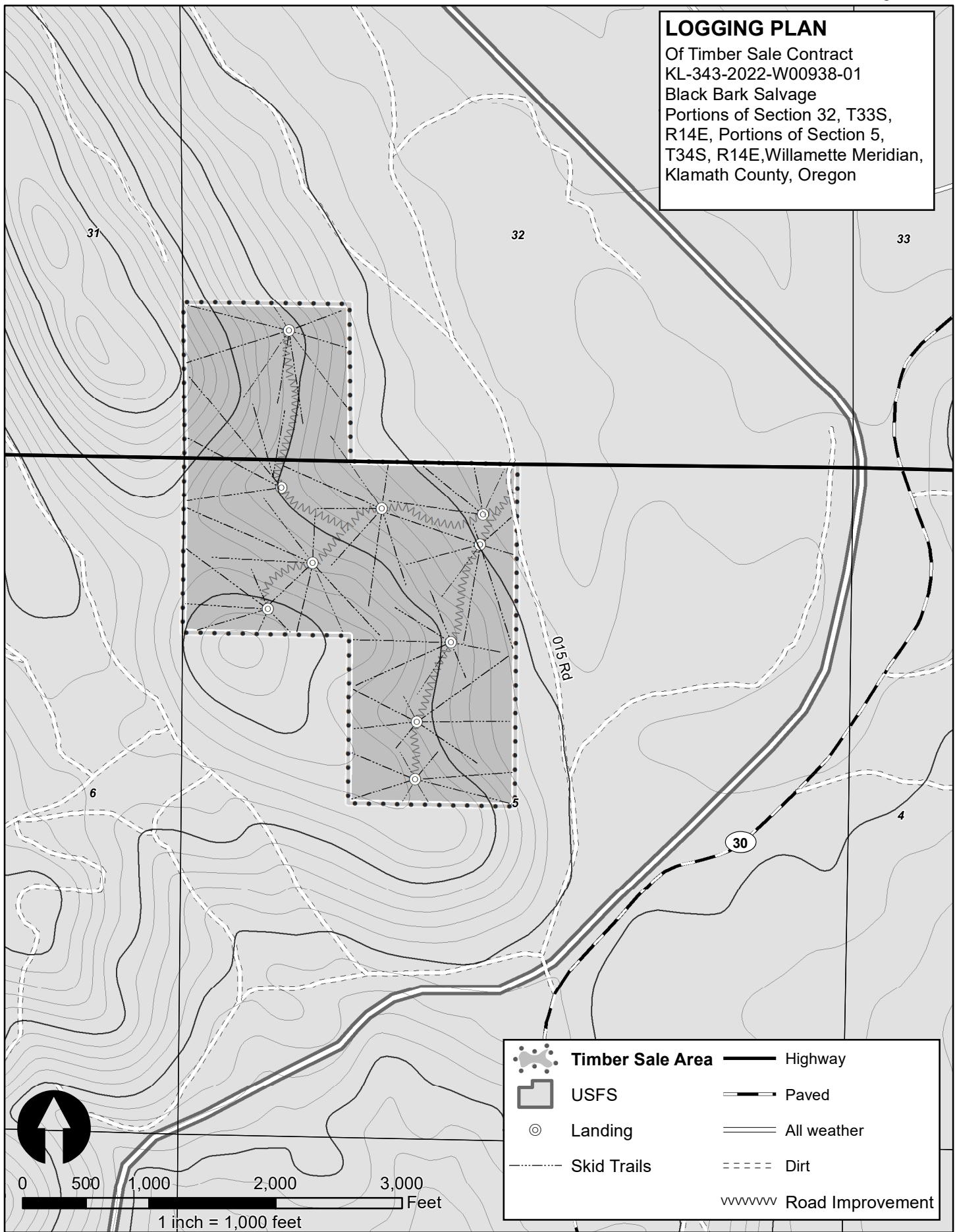
Net  
Acre

Net  
Acre



TC TLOGSTVB				Log Stock Table - MBF Project: BBSAL																			
T034 R014 S05 TVARI												T034 R014 S05 TVARI											
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page	1														
034	014	05	454	VARI	154.00	25	33	Date	8/24/2021														
									Time	1:41:16PM													
Spp	S	So	Gr	Log	Gross	%	Net	%	Net Volume by Scaling Diameter in Inches														
									T	rt	de	Len	MBF	Def	MBF	Spc	2-3	4-5	6-7	8-9	10-11	12-13	14-15
PP	CR	CR	17		75		75	12.4				22	48	5									
PP	CR	CR	27		195	.6	194	32.3					50	20	107	17							
PP	CR	CR	31		18		18	3.0					18										
PP	CR	CR	34		305	1.4	301	50.1				12	119	38	22	79		31					
PP	CR	GP	16		13		13	2.2				13											
PP	Totals				606		601	84.8				48	234	62	129	97		31					
SP	CR	CR	17		8		8	7.0					8										
SP	CR	CR	27		10		10	8.9					10										
SP	CR	CR	34		91		91	84.1				12	15	20	44								
SP	Totals				108		108	15.2				12	32	20	44								
Total All Species					714		708	100.0				59	266	83	172	97		31					

**LOGGING PLAN**  
Of Timber Sale Contract  
KL-343-2022-W00938-01  
Black Bark Salvage  
Portions of Section 32, T33S,  
R14E, Portions of Section 5,  
T34S, R14E, Willamette Meridian,  
Klamath County, Oregon



	<b>Timber Sale Area</b>		Highway
	USFS		Paved
	Landing		All weather
	Skid Trails		Dirt
			www Road Improvement