



Timber Sale Appraisal  
Bad Ham  
Sale KL-341-2017-054-

District: Klamath/Lake

Date: October 06, 2016

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**Cost Summary**

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$351,028.84	\$0.00	\$351,028.84
		Project Work:	(\$25,522.85)
		Advertised Value:	\$325,505.99



# Timber Sale Appraisal Bad Ham Sale KL-341-2017-054-

**District: Klamath/Lake**

**Date: October 06, 2016**

## Timber Description

**Location:** Portions of Sections 14 and 15, T40S, R7E, and portions of Section 25, T39S, R7E, W.M., Klamath County, Oregon.

**Stand Stocking:** 40%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	22	0	95
White Fir	13	0	95
Sugar Pine	33	0	95
Ponderosa Pine	16	0	95

Volume by Grade	CR 6" - 8"	CR 8" - 14"	CR 14" - 22"	CR 22"+	Total
Douglas - Fir	43	54	182	140	419
White Fir	133	124	32	2	291
Sugar Pine	0	2	6	0	8
Ponderosa Pine	298	497	236	13	1,044
<b>Total</b>	474	677	456	155	1,762

**Comments:** Pond Values Used: 3rd Quarter Calendar Year 2016.

Log Markets: Klamath Falls and Medford

SCALING COST ALLOWANCE = \$5.00/MBF

BRANDING AND PAINTING COST ALLOWANCE = \$2.00/MBF

FUEL COST ALLOWANCE = \$3.00/Gallon

HAULING COST ALLOWANCE

Hauling costs equivalent to \$780 daily truck cost.

Other Costs (with Profit & Risk to be added):

Dust Abatement: \$9,440

TOTAL Other Costs (with Profit & Risk to be added) = \$9,440

Other Costs (No Profit & Risk added):

Road Use Fees: \$2,137.67

Water Use Fee: \$150

TOTAL Other Costs (No Profit & Risk added) = \$2,287.67



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**Logging Conditions**

**Combination#: 1**

Douglas - Fir	25.00%
White Fir	85.00%
Ponderosa Pine	55.00%

**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:** 10      **bd. ft / load:** 4200

**cost / mbf:** \$90.40

**machines:** Log Loader (B)  
Stroke Delimber (B)  
Feller Buncher w/ Delimber  
Tire Skidder

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**Combination#: 2**

Douglas - Fir	75.00%
White Fir	15.00%
Sugar Pine	100.00%
Ponderosa Pine	45.00%

**Logging System:** Track Skidder      **Process:** Manual Falling/Delimbing

**yarding distance:** Medium (800 ft)      **downhill yarding:** Yes

**tree size:** Mature / Partial Cut (900 Bft/tree), 3-5 logs/MBF

**loads / day:** 10      **bd. ft / load:** 4500

**cost / mbf:** \$98.02

**machines:** Log Loader (B)  
Track Skidder

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### Logging Costs

Operating Seasons: 1.00	Profit Risk: 12%
Project Costs: \$25,522.85	Other Costs (P/R): \$9,440.00
Slash Disposal: \$0.00	Other Costs: \$2,287.67

Miles of Road

Road Maintenance: \$0.64

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	4.5
White Fir	\$0.00	3.0	4.2
Sugar Pine	\$0.00	3.0	4.2
Ponderosa Pine	\$0.00	3.0	4.2



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**Logging Costs Breakdown**

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling / Brand & Paint	Other	Total
<b>Douglas - Fir</b>									
\$96.12	\$0.67	\$2.49	\$60.67	\$5.36	\$19.84	\$0.00	\$7.00	\$1.30	\$193.45
<b>White Fir</b>									
\$91.54	\$0.67	\$2.49	\$65.00	\$5.36	\$19.81	\$0.00	\$7.00	\$1.30	\$193.17
<b>Sugar Pine</b>									
\$98.02	\$0.67	\$2.49	\$65.00	\$5.36	\$20.58	\$0.00	\$7.00	\$1.30	\$200.42
<b>Ponderosa Pine</b>									
\$93.83	\$0.67	\$2.49	\$65.00	\$5.36	\$20.08	\$0.00	\$7.00	\$1.30	\$195.73

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$521.53	\$328.08	\$0.00
White Fir	\$0.00	\$398.37	\$205.20	\$0.00
Sugar Pine	\$0.00	\$291.25	\$90.83	\$0.00
Ponderosa Pine	\$0.00	\$342.40	\$146.67	\$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
Sugar Pine	0	\$0.00	\$0.00
Ponderosa Pine	0	\$0.00	\$0.00

**Unamortized**

Specie	MBF	Value	Total
Douglas - Fir	419	\$328.08	\$137,465.52
White Fir	291	\$205.20	\$59,713.20
Sugar Pine	8	\$90.83	\$726.64
Ponderosa Pine	1,044	\$146.67	\$153,123.48

**Gross Timber Sale Value**

**Recovery:** \$351,028.84

**Prepared By:** Ed Scheick

**Phone:** 541-883-5681

## **Summary of Project Work**

**Bad Ham**  
**341-17-54**



<b>Project # 1:</b> Road Improvement / Construction	<b>\$2,795.60</b>
<b>Project # 2:</b> Road Rocking	<b>\$1,849.75</b>
<b>Project # 3:</b> Fell, Yard, & Pile Submerchantable Trees	<b>\$4,500.00</b>
<b>Project #4:</b> Slash Piling	<b>\$15,715.00</b>
<b>Project #5:</b> Road Closures	<b>\$662.50</b>
<b>Total:</b>	<b>\$25,522.85</b>

# Bad Ham

## KL-341-17-54

### Other Costs

#### Road Maintenance

Move-in cost (grader):	\$400.00
Number of Miles to be Bladed:	3.5
Number of Bladings:	1
Total Miles	3.5
Miles / Hour for equipment:	0.5
Cost / Hour (grader with operator):	\$105.50
Total Grading Hours:	7
Grading Cost:	\$738.50
	<b>\$1,138.50</b>
<b>Total Cost:</b>	\$1,138.50
Cost / Mbf:	\$0.65

#### Dust Abatement (Profit & Risk to be added in Appraisal)

PP	1044 MBF	59%	Average Load	4.2 MBF	No. of Loads	249
DF	419 MBF	24%	Average Load	4.5 MBF	No. of Loads	93
WF	291 MBF	17%	Average Load	4.2 MBF	No. of Loads	69
SP	8 MBF	0%	Average Load	4.2 MBF	No. of Loads	2
<b>Total:</b>	<b>1762 Mbf</b>				<b>Total Loads</b>	<b>413</b>

Assume: 4 Trucks/Day  
3 Trips/Day  
**12 Loads per Day**  
34 Hauling Days

34 Days of Dust Abatement  
3 Hours/Day  
\$88.00 Cost/Hour  
102 Total Hours  
\$200.00 Move in for Water Truck  
\$9,176.00 Dust Abatement Cost  
**\$9,176.00 Total Cost**  
\$5.21 Cost/Mbf

#### Other Costs Summary (Profit and Risk to be added in Appraisal)

\$9,176.00 Total cost for Dust Abatement  
**\$9,176.00 Total Other Costs**

\$5.21 per MBF  
**\$5.21 per Mbf**



# Bad Ham

## KL-341-17-54

### Project Costs

#### Project #1 Road Improvement and Construction

Move in Cost Dozer: \$400.00

#### Construction

	Points	Distance (ft)	Feet/Hour	Hours	Cost/Hour	Cost
Construct Spur	A to B	990	500	1.98	\$132.50	\$262.35
Construct Spur	C to D	635	500	1.27	\$132.50	\$168.28
Construct Spur	F to G	765	500	1.53	\$132.50	\$202.73
Construct Spur	I to J	1130	500	2.26	\$132.50	\$299.45
Construct Spur	K to L	790	500	1.58	\$132.50	\$209.35
	Total	4310				Total \$1,142.15

#### Improvement

	Points	Distance (ft)	Feet/Hour	Hours	Cost/Hour	Cost
Open/Clear/Shape	E to F	2300	1000	2.30	\$132.50	\$304.75
Open/Clear/Shape	H to I	1050	1000	1.05	\$132.50	\$139.13
Open/Clear/Shape	M to N	200	1000	0.20	\$132.50	\$26.50
Open/Clear/Shape	O to P	2450	1000	2.45	\$132.50	\$324.63
Open/Clear/Shape	P to Q	270	1000	0.27	\$132.50	\$35.78
Open/Clear/Shape	P to R	1330	1000	1.33	\$132.50	\$176.23
Open/Clear/Shape	P to S	620	1000	0.62	\$132.50	\$82.15
Open/Clear/Shape	P to T	1240	1000	1.24	\$132.50	\$164.30
	Total	9460				Total \$1,253.45

#### Project #1 Summary

Equipment Costs	\$400.00
Improvement Cost	\$1,253.45
Construction Cost	\$1,142.15
<b>Project #1 Total</b>	<b>\$2,795.60</b>
per MBF	\$1.59

# Bad Ham

## KL-341-17-54

### Project Costs

#### Project #2 Road Rocking

##### Spot Rocking - Delivered

1 1/2 - Rock Size  
 50 Cubic Yards  
 1.5 Tons per Cubic Yard  
 75 tons

\$15.25 cost per ton (delivered)

\$1,143.75 **Total Cost Rock**

\$0.65 per MBF

##### Rock Spreading (Dozer)

4 Total Dozer Hours

\$132.50 Cost per Hour

\$530.00 **Total**

2 Total Water Truck Hours

\$88.00 Cost per Hour

\$176.00 **Total**

\$706.00 **Total Rock Spreading**

\$0.40 per MBF

#### Project #2 Summary

Total Cost Rock	\$1,143.75
Total Cost Spreading	\$706.00
<b>Total Cost</b>	<b>\$1,849.75</b>
per MBF	\$1.05

#### Project #3 Fell, Yard, and Pile Submerchantable Trees

Total Submerchantable Volume: 75 Mbf

Fell and Skid/MBF \$50.00

Sort/MBF \$10.00

**Total Cost** \$4,500.00

per MBF \$2.55

Bad Ham  
KL-341-17-54  
*Project Costs*

*Project #4 Slash Piling*

*Unit Slash and Brush Piling*

Move in Cost Excavator: \$400.00

		Acres/Hour	Total Hours	Cost/Hour	Piling Costs
Unit acres to be piled:	60	0.50	120.00	\$85.50	\$10,260.00

Move in Cost:	\$400.00
Piling Cost:	\$10,260.00
<b>Unit Piling Total:</b>	<b>\$10,660.00</b>

*Landing Slash Piling*

Number of Landings: 15

Shovel Time: 1 Hour per Landing	Cost per Hour:	\$125.00	Total Cost: \$1,875.00
Cat Time: 1 Hour per Landing	Cost per Hour:	\$132.50	Total Cost: \$1,987.50
			Total Cost: \$3,862.50

Number of Landings: 9

Delimb and deck Juniper and Doug fir tops			
1 Hour per Landing	Cost per Hour:	\$132.50	Total Cost: \$1,192.50

**Total Landing Slash Piling Cost: \$5,055.00**

*Project #4 Summary*

Unit Slash Piling	\$10,660.00
Landing Piling:	\$5,055.00
<b>Total:</b>	<b>\$15,715.00</b>
per MBF	\$8.92

Bad Ham  
KL-341-17-54  
*Project Costs*

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*Project #5 Road Closure*

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*Road Closures*

5	Number of Closure Points (A,C,E,K,M)
1	Hour/Point (Travel Included)
\$132.50	Cost per Hour (Cat)
<b>\$662.50</b>	<b>Total</b>
<hr/>	
\$0.38	per MBF

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*Cost Summary All Projects*

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\$2,795.60	Project #1 Road Improvement
\$1,849.75	Project #2 Road Rocking
\$4,500.00	Project #3 Fell, Yard, and Pile Submerchantable Trees
\$15,715.00	Project #4 Slash Piling
\$662.50	Project #5 Road Closures
<b>\$25,522.85</b>	<b>Total</b>
<hr/>	
\$14.49	per MBF

# Bad Ham

KL-341-2017-054  
Cruise Report



**SALE NAME:** Bad Ham

**LEGAL DESCRIPTION:**

T40S, R7E, Portions of Sections 14 and 15, and T39S, R7E, Portion of Section 25, W.M., Klamath County, Oregon.

**ACREAGE:**

The timber sale is 401 acres with 17 acres of exclusions and was cruised as three separate areas.

Area	Gross Acres	Exclusion	Net Acres
Area 1	94	0	94
Area 2	152	9	143
Area 3	155	8	147
Total	401	17	384

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

**TREATMENT:**

Area 1 is a single tree selection cut with cut trees marked with blue paint. In addition, all unmarked white fir greater than 9.0 inches dbh containing greater than 50% net sawlog volume is to be cut.

Area 2 is a single tree selection cut with cut trees marked with blue paint for trees 5.0 inches dbh and larger.

Area 3 is a single tree selection cut with leave trees marked with orange paint for trees 5.0 inches dbh and larger.

**CRUISE METHOD:**

Merchantable volume on the timber sale was sampled using a variable plot cruise with a ratio of one measure plot for every count plot. Submerchantable material (5.0" to 9.0" dbh) was measured with a 1/50 acre fixed plot.

**BASAL AREA FACTOR:**

Area	BAF	Type Acreage
Area 1	10 BAF	94 acres
Area 2	10 BAF	143 acres
Area 3	10 BAF	147 acres

**FIXED PLOT:**

Area	Radius	Type Acreage
All Areas	16.6	384 acres

**PLOT DESIGNATION:**

Plot centers were established at every plot with blue and white candy stripe flagging. Candy stripe blue and white flagging was attached to the nearest available tree branch listing the plot number and date of cruise.

**SAMPLE SIZE:**

Area 1: 30 Plots  
Area 2: 47 Plots  
Area 3: 19 Plots

**Measurements and Grading:**

- 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.

**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. 5.0" dbh for submerchantable material.

**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:**

AREA	CV%	SE%	Acres
Area 1	52.2	9.7	94
Area 2	82.4	12.0	143
Area 3	48.4	11.4	147
Combined	74.7	7.6	384

**TIMBER DESCRIPTION**

**SAWLOG VOLUME:**

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

**Area 1**

<b>Species</b>	<b>Average DBH</b>	<b>Gross Volume per acre (bf/acre)</b>	<b>Net Volume per acre (bf/acre)</b>	<b>Gross Volume per area (Mbf)</b>	<b>Net Volume per area (Mbf)</b>
White fir	12.3	1,848	1,839	174	173
Ponderosa pine	19.6	1,046	980	98	92
Douglas Fir	22.7	2,591	2,477	244	233
Combined	15.5	5,485	5,296	516	498

**Area 2**

<b>Species</b>	<b>Average DBH</b>	<b>Gross Volume per acre (bf/acre)</b>	<b>Net Volume per acre (bf/acre)</b>	<b>Gross Volume per area (Mbf)</b>	<b>Net Volume per area (Mbf)</b>
White fir	16.7	846	825	121	118
Ponderosa pine	17.6	2,758	2,668	394	381
Douglas fir	21.4	897	880	128	126
Sugar pine	33.7	63	56	9	8
Combined	18.0	4,564	4,429	652	633

**Area 3**

<b>Species</b>	<b>Average DBH</b>	<b>Gross Volume per acre (bf/acre)</b>	<b>Net Volume per acre (bf/acre)</b>	<b>Gross Volume per area (Mbf)</b>	<b>Net Volume per area (Mbf)</b>
Ponderosa pine	15.0	3,903	3,878	574	570
Douglas fir	24.7	433	408	64	60
Combined	15.2	4,336	4,286	638	630



## **TOTAL SAWLOG VOLUME**

<b>Species</b>	<b>Average DBH</b>	<b>Gross Volume (Mbf)</b>	<b>Net Volume (Mbf)</b>
White fir	13.4	295	291
Ponderosa pine	16.2	1,066	1,044
Douglas fir	22.5	436	419
Sugar pine	33.7	9	8
Combined	16.2	1,806	1,762

**TOTAL NET SAWLOG VOLUME: 1,762 MBF**

### **GREEN PULP VOLUME:**

#### **Submerchantable Material**

This volume was obtained from the fixed plot cruise (5.0" – 9.0" DBH) combined with all material graded as green pulp during the variable plot cruise. All material was graded green pulp, see grade table for minimum standards.

<b>Species</b>	<b>Average DBH</b>	<b>Trees per Acre</b>	<b>Gross Volume (mbf)</b>
Ponderosa pine	8.4	10	75

**TOTAL GREEN PULP VOLUME: 75 MBF**

TC PSTATS		PROJECT STATISTICS								PAGE	1	
		PROJECT BHAM								DATE	8/22/2016	
TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt		
039	007	07	646	VARI	THR	384.00	96	458	1	E		
040	007	14	40637	VARI								
			PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES					
TOTAL			96	458	4.8							
CRUISE			49	219	4.5	13,179	1.7					
DBH COUNT												
REFOREST												
COUNT			45	239	5.3							
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
PPINE			133	24.0	16.2	41	8.5	34.1	2,777	2,718	648	648
WHITE F			47	7.8	13.4	41	2.1	7.7	769	757	177	177
DOUG-FIR			38	2.5	22.5	56	1.4	6.8	1,134	1,090	212	212
SUG PINE			1	.0	33.7	82	0.0	.1	24	22	5	5
TOTAL			219	34.3	16.1	42	12.1	48.8	4,704	4,587	1,041	1,041
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			
PPINE			97.7	8.5	192	210	228					
WHITE F			96.9	14.1	121	140	160					
DOUG-FIR			80.3	13.0	778	894	1,010					
SUG PINE												
TOTAL			137.6	9.3	288	317	347	757	189	84		
CL	68.1	COEFF	SAMPLE TREES - CF				# OF TREES REQ.		INF. POP.			
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15			
PPINE			88.7	7.7	45	48	52					
WHITE F			86.4	12.6	28	32	36					
DOUG-FIR			70.9	11.5	144	163	182					
SUG PINE												
TOTAL			115.5	7.8	60	65	71	533	133	59		
CL	68.1	COEFF	TREES/ACRE				# OF PLOTS REQ.		INF. POP.			
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15			
PPINE			146.5	14.9	20	24	28					
WHITE F			183.5	18.7	6	8	9					
DOUG-FIR			179.8	18.3	2	2	3					
SUG PINE			689.2	70.3	0	0	0					
TOTAL			95.6	9.7	31	34	38	365	91	41		
CL	68.1	COEFF	BASAL AREA/ACRE				# OF PLOTS REQ.		INF. POP.			
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15			
PPINE			125.6	12.8	30	34	38					
WHITE F			191.8	19.6	6	8	9					
DOUG-FIR			164.6	16.8	6	7	8					
SUG PINE			689.2	70.3	0	0	0					
TOTAL			79.4	8.1	45	49	53	252	63	28		
CL	68.1	COEFF	NET BF/ACRE				# OF PLOTS REQ.		INF. POP.			
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15			
PPINE			128.8	13.1	2,361	2,718	3,075					
WHITE F			225.3	23.0	583	757	931					
DOUG-FIR			169.3	17.3	902	1,090	1,279					
SUG PINE			689.2	70.3	7	22	37					

TC PSTATS		PROJECT STATISTICS							PAGE	2
		PROJECT BHAM							DATE	8/22/2016
TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt
039	007	07	646	VARI THR		384.00	96	458	1	E
040	007	14	40637	VARI						
CL	68.1		COEFF	NET BF/ACRE				# OF PLOTS REQ.	INF. POP.	
SD:	1.00		VAR.	S.E.%	LOW	AVG	HIGH	5	10	15
TOTAL			74.7	7.6	4,238	4,587	4,937	223	56	25
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
PPINE			128.1	13.1	563	648	732			
WHITE F			213.5	21.8	138	177	215			
DOUG-FIR			167.8	17.1	176	212	248			
SUG PINE			689.2	70.3	1	5	8			
TOTAL			75.2	7.7	961	1,041	1,121	226	56	25

## Log Stock Table - MBF

T039 R007 S07 TyVARI  
THRU  
T040 R007 S14 TyVARI

Project: **BHAM**  
Acres **384.00**

Page **1**  
Date **8/22/2016**  
Time **10:24:27AM**

Spp	S T	So rt	Gr de	Log Len	Gross MBF	Def %	Net MBF	% Spe	Net Volume by Scaling Diameter in Inches											
									2-3	4-5	6-8	9-10	11-12	13-14	15-16	17-19	20-21	22-29	30-39	40+
PP		CR	CR	12	9	17.4	8	.7									8			
PP		CR	CR	17	145	2.0	142	13.6			79	19	11	18	5	11				
PP		CR	CR	26	163		161	15.5			73	32	27	25	4					
PP		CR	CR	34	749	2.2	732	70.2			146	211	47	108	143	33	32	13		
PP		Totals			1,066	2.1	1,044	59.3			298	262	84	151	152	44	40	13		
DF		CR	CR	17	24		24	5.8			6	0	1	3	1	3		10		
DF		CR	CR	26	36		36	8.6			11	5	12	2		6				
DF		CR	CR	34	375	4.4	358	85.6			26	11	11	7	60	59	53	131		
DF		Totals			435	3.9	419	23.8			43	16	25	13	61	68	53	140		
WF		CR	CR	17	46	1.0	45	15.5			31	4		8				2		
WF		CR	CR	26	41		41	14.0			29	9		2						
WF		CR	CR	34	209	2.0	205	70.5			73	33	45	23	16	15				
WF		Totals			295	1.5	291	16.5			133	47	45	32	16	15		2		
SP		CR	CR	34	9	10.3	8	100.0						2			6			
SP		Totals			9	10.3	8	.5						2			6			
Total		All Species			1,806	2.5	1,761	100.0			474	325	154	199	229	126	99	155		

## Species Table Report

TblSpecies

Date: 08/17/2016

Page: 1

Table Name: SUNPASS

Code	Abry	Description	Bark Ratio	ASub Const	Form Factor	Wood Type	Comp onent	Yield Table	Min Log Dia	Min Log Len	Max Log Len	Log Trim	Max Tree Dia	Max Tree Hgt.	BdFt Rule	CuFt Rule	Weight
1	PP	PPINE	.87	PP	.85	P	C	PP--EQUA--100	3	9	20	1.0	99	200	E	1	4800
2	WF	WHITE F	.94	NF	.87	W	C	DF--EQUA--050	3	9	20	1.0	99	200	E	1	5000
3	LP	LP PINE	.96	DF	.9	P	C	LP--EQUA--100	3	9	20	1.0	99	200	E	1	4800
4	DF	DOUG-FIR	.92	DF	.87	D	C	DF--EQUA--050	3	9	20	1.0	99	200	E	1	5700
5	SP	SUG PINE	.87	PP	.84	P	C	PP--EQUA--100	3	9	20	1.0	99	200	E	1	4800
6	IC	INC CED	.90	SS	.80	C	C	DF--EQUA--050	3	9	20	1.0	99	200	E	1	4500
7	RF	SH FIR	.924	DF	.89	W	C	DF--EQUA--050	3	9	20	1.0	99	200	E	1	5000

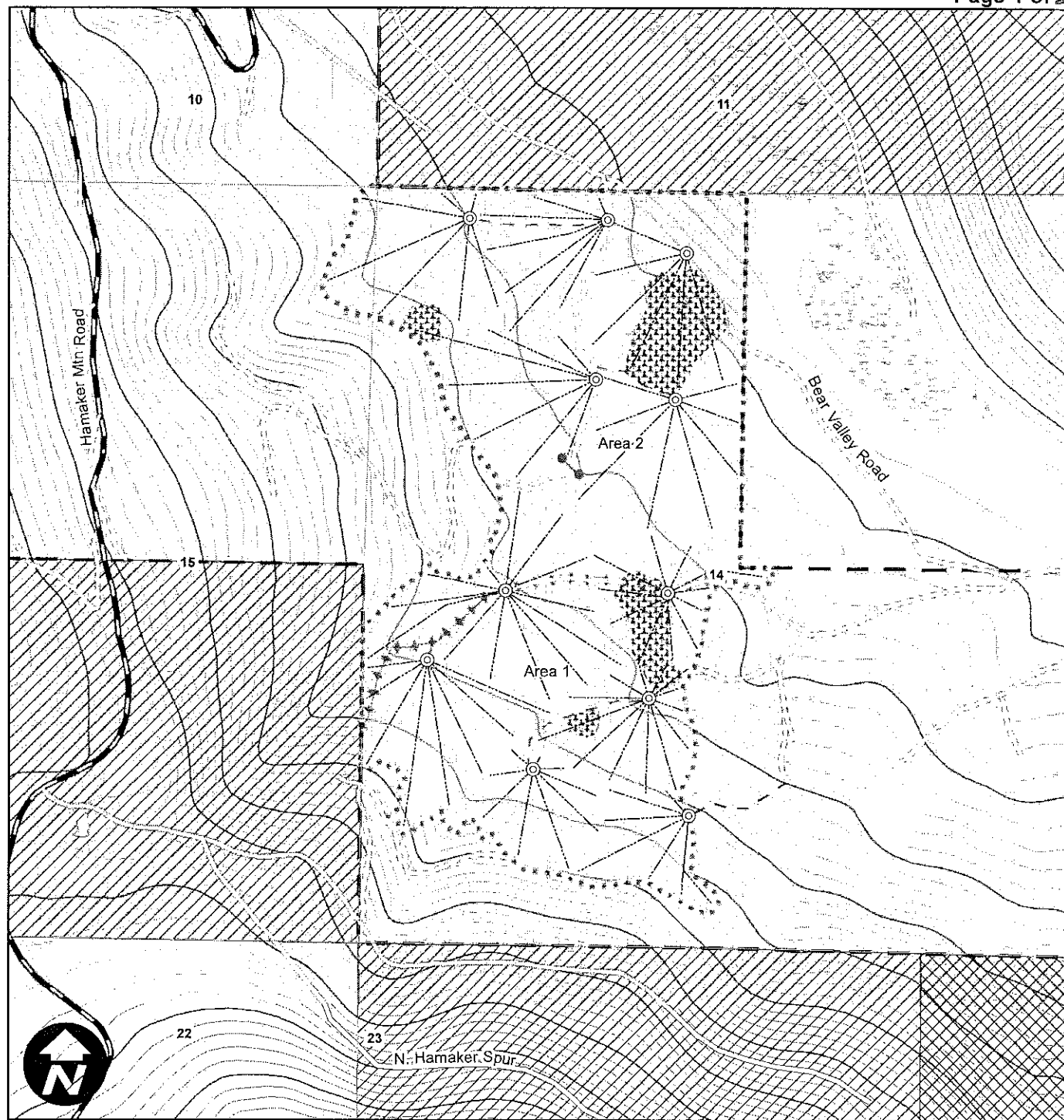
## Sort/Grade Table

TblSortGrade

Table Name: SUNPASS

Date: 08/17/2016

Sort	Grd	Abv	Desc	Fbr	Min Dia	Max Dia	Max l Butt	Min Len	Max Len	Defect	Min Vol	Vol Type	Min Rings	Knot Size	Knot Freq	Str	Sap	Min Age	Lbs	Lbs Type	Cords	Cords Type
0		CU	CULL	G	1	0	0	1	99	0	0	M	0	0	0			0	0		0	
1		CR	CAMPRU	G	6	0	0	10	99	0	0	M	0	0	0			0	0		0	
7		GP	GRNPULP	G	3	0	0	10	99	0	0	M	0	0	0			0	0		0	
8		DP	DEADPUL	G	3	0	0	10	99	0	0	M	0	0	0			0	0		0	
9		UT	UTILITY	G	8	0	0	12	99	0	0	M	0	0	0			0	0		0	
0		CU	CULL	G	1	0	0	1	99	0	0	M	0	0	0			0	0		0	
1		CR	CAMPRU	G	1	0	0	1	99	0	0	M	0	0	0			0	0		0	



## LOGGING PLAN

OF TIMBER SALE CONTRACT NO. 341-17-54

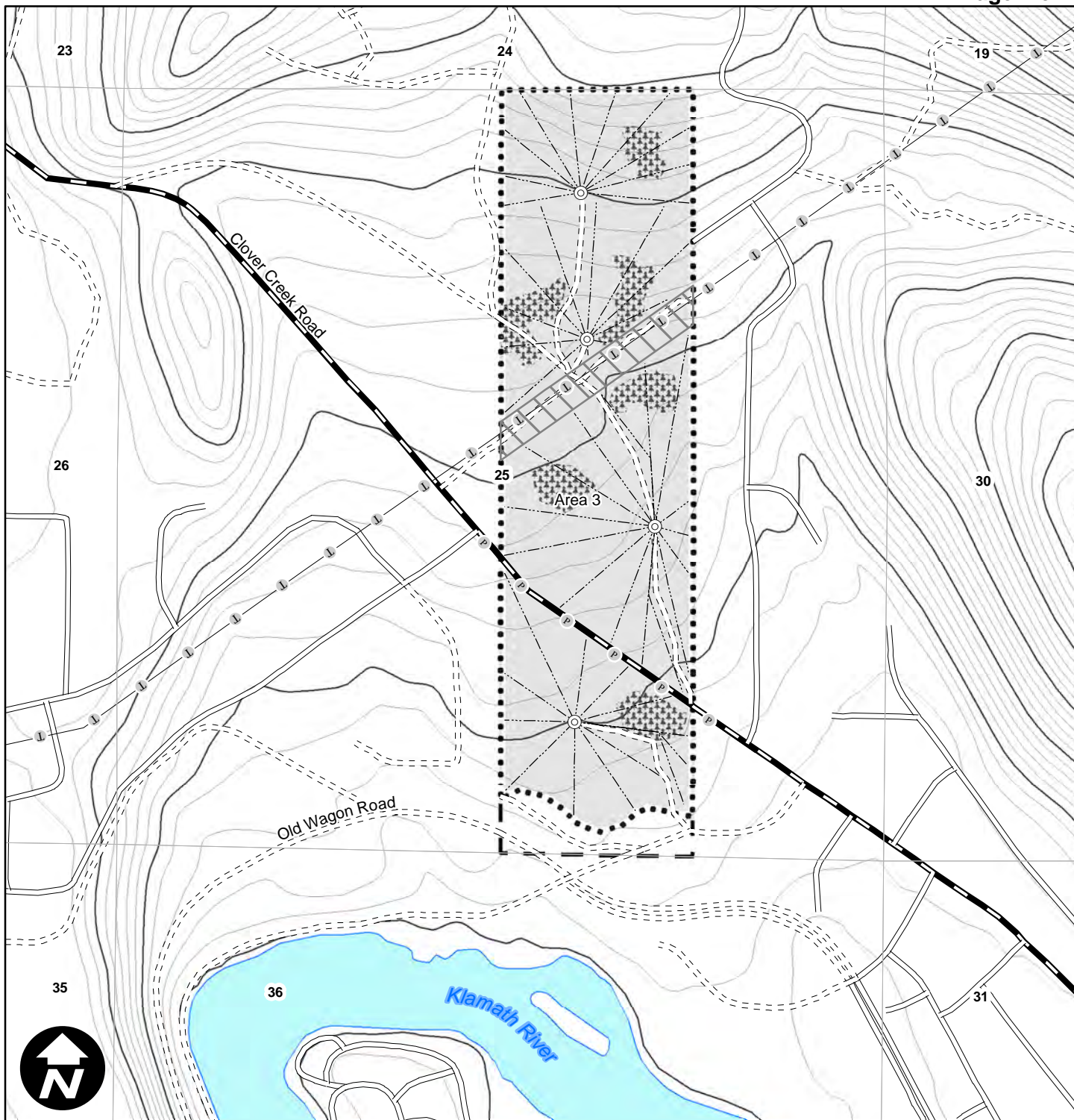
BAD HAM

LOCATED IN PORTIONS OF SECTIONS 14 AND 15  
T40S, R7E, AND PORTIONS OF SECTION 25, T39S  
R7E, WILLAMETTE MERIDIAN, KLAMATH COUNTY  
OREGON

0 500 1,000 2,000 3,000 Feet

1 inch = 1,000 feet

	Timber Sale Area		Paved Road
	Area Boundary		All weather Road
	Board of Forestry		Dirt Road
	US Bureau of Land Management		Road Construction
	US Fish and Wildlife Service		Gate
	Landings		Group Select
	Skid Trails		Exclusion



## LOGGING PLAN

OF TIMBER SALE CONTRACT NO. 341-17-54  
BAD HAM

LOCATED IN PORTIONS OF SECTIONS 14 AND 15  
T40S, R7E, AND PORTIONS OF SECTION 25, T39S  
R7E, WILLAMETTE MERIDIAN, KLAMATH COUNTY  
OREGON

	<b>Timber Sale Area</b>		<b>Paved Road</b>
	<b>Exclusion</b>		<b>All weather Road</b>
	<b>Board of Forestry</b>		<b>Dirt Road</b>
	<b>Landings</b>		<b>Road Construction</b>
	<b>Skid Trails</b>		<b>Transmission Lines</b>
	<b>Group Select</b>		<b>Electric Line</b>

0 500 1,000 2,000 3,000  
Feet  
1 inch = 1,000 feet