

Timber Sale Appraisal Buckeye Sale KL-341-2018-30-

District: Klamath/Lake Date: August 22, 2017

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$45,123.40	\$0.00	\$45,123.40
		Project Work:	(\$2,665.75)
		Advertised Value:	\$42,457.65



Timber Sale Appraisal Buckeye

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District: Klamath/Lake Date: August 22, 2017

Timber Description

Location: Portions of Section 32, T37S, R13E, W.M., Klamath County, Oregon.

Stand Stocking: 40%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
White Fir	11	0	95
Incense Cedar	16	0	95
Ponderosa Pine	18	0	95

Volume by Grade	Camprun	Total	
White Fir	4	4	
Incense Cedar	9	9	
Ponderosa Pine	373	373	
Total	386	386	

Comments: Pond Values Used: Local Pond Values, May 2017.

Log Markets: Klamath Falls and Lakeview

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):

None.

Other Costs (No Profit & Risk added):

USFS Road Fees: \$3,952.64

Green Diamond Road Maintenance: \$1,500.00

Dust Abatement: \$4,570.00

TOTAL Other Costs (No Profit & Risk added) = \$10,022.64

ROAD MAINTENANCE Road Maintenance: \$1,349.50 \$1,349.50/386 MBF = \$3.50



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Logging Conditions

Combination#: 1 White Fir 68.00%

Incense Cedar 68.00% Ponderosa Pine 68.00%

Logging System: Wheel Skidder Process: Feller Buncher

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

tree size: Small / Thinning 10in (90 Bft/tree), 18-20 logs/MBF

loads / day: 10 bd. ft / load: 3700

cost / mbf: \$102.61

machines: Log Loader (B)

Stroke Delimber (B) Feller Buncher w/ Delimber

Tire Skidder

Combination#: 2 White Fir 32.00%

Incense Cedar 32.00% Ponderosa Pine 32.00%

Logging System: Track Skidder Process: Manual Falling/Delimbing

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

tree size: Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF

loads / day: 10 bd. ft / load: 4300

cost / mbf: \$102.58

machines: Log Loader (B)

Track Skidder



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Logging Costs

Operating Seasons: 1.00

Profit Risk: 15%

Project Costs: \$2,665.75

Slash Disposal: \$0.00

Other Costs (P/R): \$0.00

Other Costs: \$10,022.64

Miles of Road

Road Maintenance:

\$3.50

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	4.4
Incense Cedar	\$0.00	3.0	4.4
Ponderosa Pine	\$0.00	3.0	4.4



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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
White Fir									
\$102.60	\$3.68	\$11.36	\$62.04	\$0.00	\$26.95	\$0.00	\$7.00	\$25.97	\$239.60
Incense Cedar									
\$102.60	\$3.68	\$11.36	\$62.04	\$0.00	\$26.95	\$0.00	\$7.00	\$25.97	\$239.60
Ponderosa	Ponderosa Pine								
\$102.60	\$3.68	\$11.36	\$62.04	\$0.00	\$26.95	\$0.00	\$7.00	\$25.97	\$239.60

Specie	Amortization	Pond Value	Stumpage	Amortized
White Fir	\$0.00	\$356.50	\$116.90	\$0.00
Incense Cedar	\$0.00	\$356.50	\$116.90	\$0.00
Ponderosa Pine	\$0.00	\$356.50	\$116.90	\$0.00



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Summary

Amortized

Specie	MBF	Value	Total	
White Fir	0	\$0.00	\$0.00	
Incense Cedar	0	\$0.00	\$0.00	
Ponderosa Pine	0	\$0.00	\$0.00	

Unamortized

Specie	MBF	Value	Total	
White Fir	4	\$116.90	\$467.60	
Incense Cedar	9	\$116.90	\$1,052.10	
Ponderosa Pine	373	\$116.90	\$43,603.70	

Gross Timber Sale Value

Recovery: \$45,123.40

Prepared By: Jon Fitch Phone: 541-883-5681

Summary of Project Work



Buckeye 341-18-30

Project No. 1: Road Improvement \$2,400.75

Project No. 2: Road closures. \$265.00

Total: \$2,665.75

Buckeye 341-18-30

Other Costs

Road Maintenance

Purchaser of the Fast Track Timber Sale will be required to obtain a road use permit from the USDA Forest Service in order to haul on approximately 1.74 miles of Forest Road 3673 and 5.3 miles of the 3673-025 road. The road use permit fees for the haul is \$10.24 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.

Access Permit/Agreement. PURCHASER's use of the 3673 (1.74 miles) and 3673-025 (5.3miles) Roads is subject to a Permit, which PURCHASER shall complete with the United States Forest Service. PURCHASER shall furnish a copy of the executed document to STATE within 10 days of its completion. This Permit/agreement requires PURCHASER to pay a road use fee of \$10.24 per gross Mbf.

Access Permit/Agreement. PURCHASER's use of the Area 2 Access Road is subject to a Permit/agreement (#314.18323), which PURCHASER shall complete with Green Diamond Resource Company. STATE shall provide a sample form and PURCHASER shall furnish a copy of the executed document to STATE within 10 days of its completion. This Permit/agreement requires normal maintenance and road closure at the completion of operations.

Estimated Fee Totals

USFS Road Use Permit

Total Fees (Use / SSR / Maintenance): \$10.24 per Mbf

Cruised Sale Volume: 386 Mbf

Total Cost: \$3,952.64

Green Diamond Road use permit

Road use Fee

Total Cost: \$1,500.00

Cost / MBF: \$3.89

Total Cost / MBF: \$14.13

Green Diamond Road Maintenance

Cruised Sale Volume: 386 Mbf Move-in cost (grader): \$400.00 022 Rd 2.65 miles 830-00 Rd 1.71 miles

Number of Miles to be Bladed: 4.4 022 Rd

Number of Bladings: 1

Total Miles 4.4

Miles / Hour for equipment: 0.5
Cost / Hour (grader with operator): \$105.50

Total Grading Hours: 9

Grading Cost: \$949.50 **Total Cost:** \$1,349.50

Cost / MBF: \$3.50

Total Cost / MBF: \$3.50 **to be added to other P & R

Dust Abatement (Profit & Risk to be added in Appraisal) PP 373 MBF 97% Average Load 4.2 MBF No. of Loads 89 13 MBF Average Load 4.5 MBF No. of Loads other 3% 3 Total: 386 MBF **Total Loads** 92 Assume: 3 Trucks/Day 3 Trips/Day 10 Days of Dust Abatement 9 Loads per Day 5 Hours/Day 10 Hauling Days \$88.00 Cost/Hour 50 Total Hours \$170.00 Move in for Water Truck \$4,570.00 Dust Abatement Cost \$4,570.00 Total Cost \$11.84 Cost/MBF

Other Costs Summary (Profit and Risk to be added in Appraisal)					
\$5,452.64 Road Use Fees and maintenance \$14.13 per MBF					
\$4,570.00	Total cost for Dust Abatement	\$11.84 per MBF			
\$10,022.64	Total Other Costs	\$25.97 per MBF			

Buckeye 341-18-30

Project Costs

Project #1 Road Improvement

Move in Cost Dozer: \$400.00

Improvement

-	Points	Distance (ft)	Feet/Hour	Hours	Cost/Hour	Cost
Shape	A to B	5380	1500	3.6	\$132.50	\$477.00
Shape	B to C	2930	1500	2.0	\$132.50	\$265.00
Shape	C to D	3220	1500	2.1	\$132.50	\$278.25
Shape	D to E	3040	1500	2.0	\$132.50	\$265.00
Open/Clear/Shape	B to X	1495	1000	1.5	\$132.50	\$198.75
Open/Clear/Shape	C to Y	1980	1000	2.0	\$132.50	\$265.00
Open/Clear/Shape	D to Z	1925	1000	1.9	\$132.50	\$251.75
	Total	19970			Total	\$2,000.75

Project #1 Summary

Equipment Costs \$400.00

 Open/Clear Shape
 \$2,000.75

 Project #1 Total
 \$2,400.75

per MBF \$6.22

Buckeye 341-18-30

Project Costs

Project #2 Road Closure

Road Closures

2 Number of Closure Points (Pt. C and Pt. D)

1 Hour/Point (Travel Included)

\$132.50 Cost per Hour (Cat)

\$265.00 Total

\$0.69 per MBF

Cost Summary				
Other Costs	Projects			
\$3,952.64 USFS Road fees	\$2,400.75 Project #1 Road Improvemen			
\$1,500.00 Green Diamond Road maintenance				
\$4,570.00 Dust Abatement	\$265.00 Project #2 Road Closure			
\$1,349.50 Road Maint.	\$2,665.75			
	-			

\$11,372.14

\$14,037.89 Total

\$36.37 per MBF

Buckeye KL-341-18-30 Cruise Report



SALE NAME: Buckeye

LEGAL DESCRIPTION:

Portions of Section 32, T37S, R13E, W.M., Klamath County, Oregon.

BOUNDARY LINES:

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

FUND:

100% B.O.F.

ACREAGE:

Gross Sale Acreage: 158 Acres

Net Sale Acreage: 158 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 single tree selection cuts with all blue marked trees 5.0 inches DBH or larger to be cut. All unmarked trees are reserved from cutting. All trees less than 5.0 inches DBH are reserved from cutting in the sale area.

CRUISE METHOD:

Variable plot cruise with a ratio of a count plot for every measure plot. Fixed plot cruise for all sub-merchantable material (5.0" to 10.0") DBH for all Areas.

Buckeye Cruise report 1

BASAL AREA FACTOR:

Area	BAF	Type Acreage
Area 1	5 BAF	158

PLOT DESIGNATION:

Plot centers were established at every plot with blue flag wire stakes with the corresponding plot number. Blue striped flagging was attached to the nearest available tree branch.

SAMPLE SIZE:

25 plots were taken which resulted in a sampling error of 16.1%. Cruise plots and count plots were taken at a 1:1 ratio.

Measurements and Grading:

- Ratio of a count plot for every measure plot.
- DBH and Height were measured on all "in" trees for measure plots.
- 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. The log segments are broken out and graded accordingly.

MINIMUM D.B.H:

8.0" 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.

Buckeye Cruise report 2

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.

CRUISERS: Jon Fitch, James Monteil, and Ed Scheick

FINAL CRUISE RESULTS:

AREA	CV%	SE%	ACRES
Area 1	83.6	16.1	158

TIMBER DESCRIPTION

SAWLOG VOLUME:

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

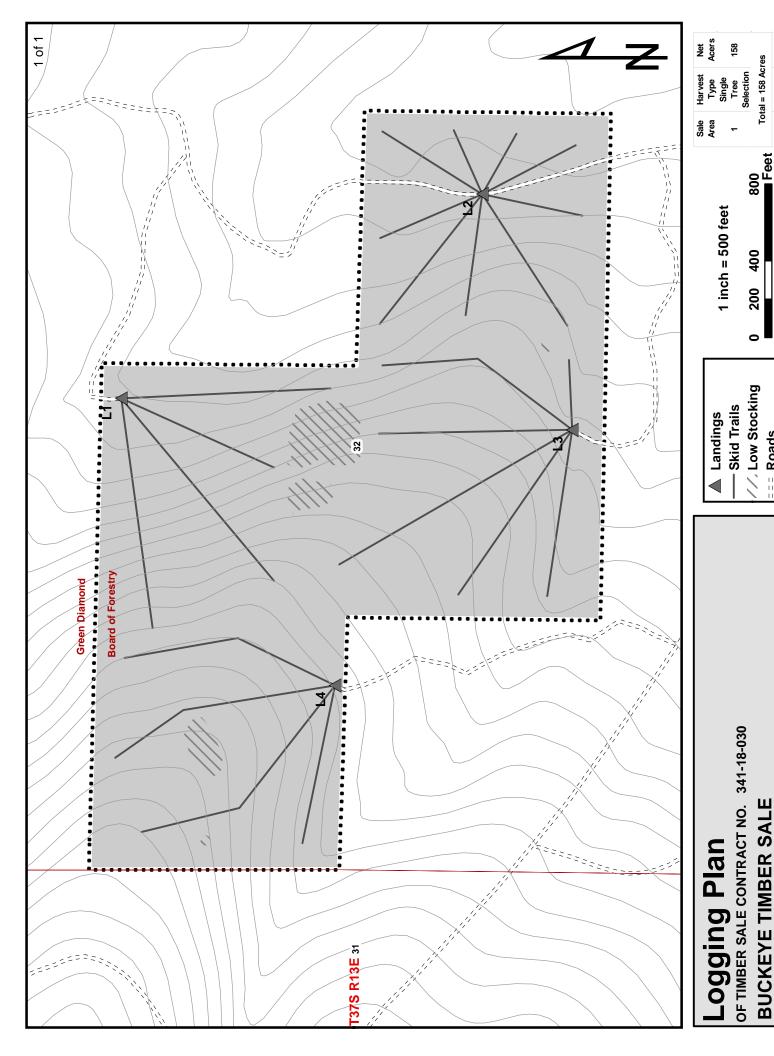
TOTAL SAWLOG VOLUME

SPECIES	AVE. DBH	GROSS VOL (MBF)	NET VOL (MBF)
Ponderosa Pine	18.4	378	373
Incense Cedar	15.8	9	9
White Fir	11.0	4	4
Total		391	386

TOTAL NET SAWLOG VOLUME: 386 MBF

All Species will be sold at Ponderosa Pine and other conifers price. Refer to timber sale contract for details.

Buckeye Cruise report 3



This product is for informational purposes and may not have been prepared for, or suitable for, legal, engineering, or surveying purposes.

Timber Sale Area

LOCATED IN PORTIONS OF SECTION 32, T37S, R13E, W,M, KAMATH COUNTY

BUCKEYE TIMBER SALE

=== Roads

Total = 158 Acres