



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal  
Fiddle Sticks  
Sale 341-14-058

District: West Oregon

Date: October 24, 2013

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**cost summary**

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$177,608.00	\$61,620.80	\$239,228.80
Project Work:			\$(24,947.00)
Advertised Value:			\$214,281.80



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**timber description**

**Location:** Portions of Section 32, T9S, R8W, and Section 5, T10S, R8W, W.M., Polk County, Oregon.

**Stand Stocking:** 60%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	12	0	95
Alder (Red)	12	0	90

Volume by Grade	10" - 11"	2S	3S	4S	5" - 7"	8" - 9"	Total
Douglas - Fir	0	172	374	199	0	0	745
Alder (Red)	48	0	0	0	177	79	304
Total	48	172	374	199	177	79	1,049



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comments: Pond Values Used: Local pond values as of June of Calendar Year 2013.

Weight Scale Conversion = 8 Tons per MBF

Western Hemlock and Other Conifers Stumpage Price: Douglas-fir bid price

Western redcedar and Other Cedars Stumpage Price:  
Douglas-fir bid price

Other Hardwoods Stumpage Price:  
Red alder bid price

SCALING COST ALLOWANCE = \$5.00/MBF

FUEL COST ALLOWANCE = \$4.00/Gallon

LOG HAUL:  
Conifer 150 mile round trip.  
Hardwood 150 mile round trip.

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):  
Equipment Cleaning (Invasive Species Prevention) = \$2,000  
Firewood sorting: 2 landings = \$200  
Non-project Roads/additional logging costs = \$1,600  
TOTAL Other Costs (No Profit & Risk added) = \$3,800

SLASH DISPOSAL  
Move-in = \$500  
Piling 58 hours at \$125/hour = \$7,212.50  
TOTAL = \$7,712.50



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**logging conditions**

combination#:	1	Douglas - Fir	57.83%
		Alder (Red)	59.57%
yarding distance:	Medium (800 ft)	downhill yarding:	No
logging system:	Track Skidder	Process:	Manual Delimbing
tree size:	Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF		
loads / day:	4.0	bd. ft / load:	3,000
cost / mbf:	\$116.54		
machines:	Feller Buncher w/ Delimber		
combination#:	2	Douglas - Fir	21.01%
		Alder (Red)	21.10%
yarding distance:	Short (400 ft)	downhill yarding:	No
logging system:	Cable: Small Tower <=40	Process:	Stroke Delimber
tree size:	Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF		
loads / day:	5.0	bd. ft / load:	3,000
cost / mbf:	\$188.95		
machines:	Log Loader (A) Stroke Delimber (A) Tower Yarder (Small)		
combination#:	3	Douglas - Fir	21.16%
		Alder (Red)	19.33%
yarding distance:	Medium (800 ft)	downhill yarding:	No
logging system:	Track Skidder	Process:	Stroke Delimber
tree size:	Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF		
loads / day:	2.0	bd. ft / load:	3,000
cost / mbf:	\$239.71		
machines:	Stroke Delimber (B)		



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**logging costs**

Operating Seasons:	2.00	Profit Risk:	12.00%
Project Costs:	\$24,947.00	Other Costs (P/R):	\$0.00
Slash Disposal:	\$7,712.50	Other Costs:	\$3,800.00

**Miles of Road**

			Road Maintenance:	\$6.07
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	2.0	3.6
Alder (Red)	\$0.00	2.0	2.9



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### logging costs breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
<b>Douglas - Fir</b>									
\$157.82	\$6.37	\$8.36	\$101.57	\$0.00	\$32.89	\$7.35	\$5.00	\$3.62	\$322.98
<b>Alder (Red)</b>									
\$155.63	\$6.68	\$8.36	\$132.08	\$0.00	\$36.33	\$7.35	\$5.00	\$3.62	\$355.05

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$561.38	\$238.40	\$0.00
Alder (Red)	\$0.00	\$557.75	\$202.70	\$0.00



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**summary**

**Amortized**

Specie	MBF	Value	Total
Douglas - Fir	0	\$0.00	\$0.00
Alder (Red)	0	\$0.00	\$0.00

**Unamortized**

Specie	MBF	Value	Total
Douglas - Fir	745	\$238.40	\$177,608.00
Alder (Red)	304	\$202.70	\$61,620.80

**Gross Timber Sale Value**

Recovery: \$239,228.80

Prepared by: Dave Wiger

Phone: 541-929-3266

# SUMMARY OF ALL PROJECT COSTS

Sale Name: Fiddle Sticks

Date: June 7, 2013

Time: 15:58

## Project #1 - Construction

<u>Road Segment</u>	<u>Length</u>	<u>Cost</u>		
B1 to B2	12.8 sta	\$ 2,270		
B3 to B4	11.4 sta	\$ 2,307		
B5 to B6	14.7 sta	\$ 545		
C4 to C5	2.0 sta	\$ 477		
<b>TOTALS</b>	40.9 sta		\$	5,599

## Project #2 - Improvement

<u>Road Segment</u>	<u>Length</u>	<u>Cost</u>		
A to B	147.3 sta	\$ 8,057		
B to B7	16.1 sta	\$ 805		
B7 to B8	22.1 sta	\$ 1,082		
B to C	14.7 sta	\$ 786		
C to C1	31.0 sta	\$ 1,788		
C2 to C3	8.8 sta	\$ 510		
<b>TOTALS</b>	240.0 sta		\$	13,028

## Project #3 - Brushing

Brushing on haul routes	240 sta.		\$	2,726
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## Project #4 - Post Harvest Activities

Post harvest rock and road closure			\$	1,216
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## Move in

	<u>Cost</u>	<u>On-site move</u>
Brusher	\$ 340	
Crawler tractor, D-7 or equiv.	\$ 546	\$ 65
Grader, Cat 14-G or equiv.	\$ 340	
Water Truck	\$ 223	\$ 25
Backhoe	\$ 340	\$ 77
Vibratory roller	\$ 340	\$ 82

<b>TOTAL</b>		\$	2,378
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<b>GRAND TOTAL</b>	\$	24,947
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Compiled by D. Wiger

Date 06/07/2013



# SUMMARY OF CONSTRUCTION COST

SALE	Fiddle Sticks	- Project #2	LENGTH improve	147.3 sta
ROAD	A to B	Surfaced, Ditched	Beaver Creek Road	

## IMPROVEMENT

Shape surface (with road grader)	147.3 sta.	@	\$13.75 /sta	=	\$2,025
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TOTAL IMPROVEMENT	\$2,025
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## SURFACING

			Size	Cost/yd	
Spot rock (2.8 miles) (100 CY/Mile)	279 cy of	3-0"	\$21.62	=	\$6,032

TOTAL ROCK COST =	\$6,032
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Compiled by:  
Date:

D. Wiger  
Jun 7, 2013

GRAND TOTAL =====>

\$8,057

### SUMMARY OF CONSTRUCTION COST

SALE ROAD	Fiddle Sticks B to B7	- Project #2 Surfaced, Ditched	LENGTH improve	16.1 sta
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#### IMPROVEMENT

Shape surface (with road grader)	16.1 sta.	@	\$13.75 /sta	=	\$221
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TOTAL IMPROVEMENT	\$221
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#### SURFACING

		Size	Cost/yd		
Spot rock 0.4 miles) (100 CY/Mile)	27 cy of	3-0"	\$21.62	=	\$584

TOTAL ROCK COST =	\$584
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Compiled by:  
Date:

D. Wiger  
Jun 7, 2013

GRAND TOTAL =====>

\$805

### SUMMARY OF CONSTRUCTION COST

SALE	Fiddle Sticks	- Project #1	LENGTH reconstruct	12.8 sta
ROAD	B1 to B2	Unsurfaced, Outsloped		

#### CLEARING AND GRUBBING

0.71 acres	@	\$1,011.00 /acre	=	\$718
0.20 acres	@	\$1,011.00 /acre	=	\$202 (2 landings)

TOTAL CLEARING AND GRUBBING = \$920

#### EXCAVATION With Cat D-7 or equivalent

Reconstruct road	12.8 sta.	@	\$74.28 /sta	=	\$951
Construct 2 landings	2 hr.	@	\$135.80 /hr.	=	\$272
Shape subgrade (with road grader)	12.8 sta.	@	\$9.90 /sta	=	\$127

TOTAL EXCAVATION = \$1,350

Compiled by: D. Wiger  
Date: Jun 7, 2013

GRAND TOTAL =====> \$2,270

### SUMMARY OF CONSTRUCTION COST

SALE	Fiddle Sticks	- Project #1	LENGTH construct	11.4 sta
ROAD	B3 to B4	Unsurfaced, Outsloped		

#### CLEARING AND GRUBBING

0.63 acres	@	\$1,011.00 /acre	=	\$637
0.30 acres	@	\$1,011.00 /acre	=	\$303 (3 landings)

TOTAL CLEARING AND GRUBBING = \$940

#### EXCAVATION With Cat D-7 or equivalent

Construct road	11.4 sta.	@	\$74.28 /sta	=	\$847
Construct 3 landings	3 hr.	@	\$135.80 /hr.	=	\$407
Shape subgrade (with road grader)	11.4 sta.	@	\$9.90 /sta	=	\$113

TOTAL EXCAVATION = \$1,367

Compiled by: D. Wiger  
Date: Jun 7, 2013

GRAND TOTAL =====> \$2,307

## SUMMARY OF CONSTRUCTION COST

SALE	Fiddle Sticks	- Project #1	LENGTH construct	1.2 sta
ROAD	B5 to B6	Unsurfaced, Outsloped		

### CLEARING AND GRUBBING

0.07 acres	@	\$1,011.00 /acre	=	\$71
0.10 acres	@	\$1,011.00 /acre	=	\$101 (1 landing)

TOTAL CLEARING AND GRUBBING = \$172

### EXCAVATION With Cat D-7 or equivalent

Construct road	1.2 sta.	@	\$74.28 /sta	=	\$89
Construct 1 landing	2 hr.	@	\$135.80 /hr.	=	\$272
Shape subgrade (with road grader)	1.2 sta.	@	\$9.90 /sta	=	\$12

TOTAL EXCAVATION = \$373

Compiled by: D. Wiger  
Date: Jun 7, 2013

GRAND TOTAL =====>

\$545

### SUMMARY OF CONSTRUCTION COST

SALE	Fiddle Sticks	- Project #2	LENGTH improve	22.1 sta
ROAD	B7 to B8	Surfaced, Ditched		

#### IMPROVEMENT

Shape surface (with road grader)	22.1 sta.	@	\$13.75 /sta	=	\$304
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TOTAL IMPROVEMENT	\$304
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#### SURFACING

		Size	Cost/yd		
Spot rock (0.4 miles) (100 CY/mile)	36 cy of	3-0"	\$21.62	=	\$778

TOTAL ROCK COST =	\$778
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Compiled by:  
Date:

D. Wiger  
Jun 7, 2013

GRAND TOTAL =====>

\$1,082

## SUMMARY OF CONSTRUCTION COST

SALE	Fiddle Sticks	- Project #2	LENGTH	improve	14.7 sta
ROAD	B to C	Surfaced, Ditched			

### IMPROVEMENT

Shape surface (with road grader)	14.7 sta.	@	\$13.75 /sta	=	\$202
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TOTAL IMPROVEMENT	\$202
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### SURFACING

		Size	Cost/yd		
Spot rock (0.3 miles) (100 CY/Mile)	27 cy of	3-0"	\$21.62	=	\$584

TOTAL ROCK COST =	\$584
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Compiled by:  
Date:

D. Wiger  
Jun 7, 2013

GRAND TOTAL =====>

\$786

# SUMMARY OF CONSTRUCTION COST

SALE	Fiddle Sticks	- Project #2	LENGTH improve	31.0 sta
ROAD	C to C1	Surfaced, Ditched		

## IMPROVEMENT

Shape surface (with road grader)	31.0 sta.	@	\$13.75 /sta	=	\$426
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TOTAL IMPROVEMENT	\$426
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## SURFACING

		Size	Cost/yd		
Spot rock (0.6 miles) (100 CY/Mile)	63 cy of	3-0"	\$21.62	=	\$1,362

TOTAL ROCK COST =	\$1,362
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Compiled by:  
Date:

D. Wiger  
Jun 7, 2013

GRAND TOTAL =====>

\$1,788



## SUMMARY OF CONSTRUCTION COST

SALE	Fiddle Sticks	- Project #2	LENGTH	improve	8.8 sta
ROAD	C2 to C3	Surfaced, Ditched			

### IMPROVEMENT

Shape surface (with road grader)	8.8 sta.	@	\$13.75 /sta	=	\$121
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TOTAL IMPROVEMENT	\$121
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### SURFACING

		Size	Cost/yd		
Spot rock (0.2 miles) (100 CY/Mile)	18 cy of	3-0"	\$21.62	=	\$389

TOTAL ROCK COST =	\$389
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Compiled by:  
Date:

D. Wiger  
Jun 7, 2013

GRAND TOTAL =====>

\$510

## SUMMARY OF CONSTRUCTION COST

SALE	Fiddle Sticks	- Project #1	LENGTH	improve	2.0 sta
ROAD	C4 to C5	Unsurfaced, Outsloped			

### CLEARING AND GRUBBING

0.07 acres	@	\$1,011.00 /acre	=	\$71
0.10 acres	@	\$1,011.00 /acre	=	\$101 (1 landing)

TOTAL CLEARING AND GRUBBING = \$172

### EXCAVATION With Cat D-7 or equivalent

Construct road	2.0 sta.	@	\$74.28 /sta	=	\$149
Construct 1 landing	1 hr.	@	\$135.80 /hr.	=	\$136
Shape subgrade (with road grader)	2.0 sta.	@	\$9.90 /sta	=	\$20

TOTAL EXCAVATION = \$305

Compiled by: D. Wiger  
Date: Jun 7, 2013

GRAND TOTAL =====>

\$477

# SUMMARY OF CONSTRUCTION COST

SALE Fiddle Sticks - Project #3 Roadside Brushing  
ROAD

Road segment	Difficulty	Stations	Cost/sta.	Total
A to B	Light	147.3	\$11.36	\$1,673
B to B7	Light	16.1	\$11.36	\$183
B to C	Light	14.7	\$11.36	\$167
C to C1	Light	31.0	\$11.36	\$352
C2 to C3	Light	8.8	\$11.36	\$100
B7 to B8	Light	22.1	\$11.36	\$251

240.0 sta

\$2,726

GRAND TOTAL =====> \$2,726

Compiled by:  
Date:

D. Wiger  
Jun 7, 2013

## SUMMARY OF CONSTRUCTION COST

SALE Fiddle Sticks - Project #4 Post Harvest  
ROAD

SURFACING		Size	Cost/yd	
Turnaround rock				
Point B8	27 cy of	3-0"	\$21.62 =	\$584
Landing patch rock				
C to C1	27 cy of	3-0"	\$21.62 =	\$584

TOTAL ROCK COST = \$1,168

## MISCELLANEOUS PROJECTS

Tank trap (1) at Pt. B1	0.5 hr.	@	\$48.35 /hr. =	\$24
Tank trap (1) at Pt. C4	0.5 hr.	@	\$48.35 /hr. =	\$24

TOTAL MISCELLANEOUS PROJECTS = \$48

Compiled by:  
Date:

D. Wiger  
Jun 7, 2013

GRAND TOTAL =====>

\$1,216

## SUMMARY OF MAINTENANCE COST

SALE                      Fiddle Sticks                      - Final Maintenance Cost Estimate  
ROAD                      (Costed in appraisal, not in project costs)

Grading                      Move-in                      \$ 340.10

Road Segment	Length	Cost/Sta	Cost	Mileage
A to B	147.3	\$13.75	\$2,025.38	2.79
B to B7	16.1	\$13.75	\$221.38	0.30
B1 to B2	12.8	\$9.90	\$126.72	0.24
B3 to B4	11.4	\$9.90	\$112.86	0.22
B5 to B6	1.2	\$9.90	\$11.88	0.02
B7 to B8	22.1	\$13.75	\$303.88	0.42
B to C	14.7	\$13.75	\$202.13	0.28
C to C1	31.0	\$13.75	\$426.25	0.59
C2 to C3	8.8	\$13.75	\$121.00	0.17
C4 to C5	2.0	\$9.90	\$19.80	0.04
Totals	267.4		\$3,571.28	5.06

Maintenance Rock:                      1½-0"

	Volume	Cost/CY	Cost
	126	\$21.96	\$2,766.96

Grand Total                      \$6,678.34

TS Volume                      1,100 MBF

Cost / MBF =                      \$6.07

NOTES:

## Fiddle Sticks (341-14-58)

FY 2014

### TIMBER CRUISE REPORT

1. **Sale Area Location:** Portions of Section 32, T9S, R8W and Section 5, T10S, R8W, W.M., Polk County, Oregon.
2. **Fund Distribution:**
  - a. **Fund** BOF 100%; CSL 0%
  - b. **Tax Code**
3. **Sale Acreage by Area:**

Area	Treatment	Gross Cruise Acres	Acreage Adjustment	Gross Sale Acres	Acreage Comp. Method	Closure
I	Modified Clearcut	31.7	Gross Acre	30	Ortho photo, GIS, GPS	n/a
II	Modified Clearcut	51	Cruise *	51	Ortho photo, GIS, GPS	n/a
III	Partial Cut	8		8		

\* Acres were added to Area I to compensate for buffers that were outside the posted sale boundary, but were included in the leave tree counts (See 5. "Cruise Method and Computation" below).

4. **Cruisers and Cruise Dates:** The sale area was cruised by Dave Wiger in March of 2013.
5. **Cruise Method and Computation:** The sale area is a combination modified clearcut and partial cut sale and was variable plot cruised using a 20 BAF. Plots were located on a 2.5 chain by 5 chain grid with lines running east-west. Every other plot was measured and graded. A total of 50 plots were sampled, with 30 measured and graded plots and 20 count plots. All species on measure plots and minor species on all plots were graded and defect was assessed. The sale areas consist of 4 SLI Type polygons. The cruise data for the 4 polygons was processed as a single cruise for volume computation. This is a gross acre cruise. Acres were added to Areas I and II along the northern buffers but outside the posted boundaries to account for trees that were tallied by species and diameter in the buffers toward leave tree requirements.

Data was recorded on cruise cards in field notebooks and manually entered into Atterbury Super A.C.E. -Version 2.40. Stereo photos, digital ortho photos, LiDar data, and GPS data from a Garmin GPSMap 60CSx was used to map the boundaries for the sale and ArcMap 10.1 was used to determine gross acreage.

Reserve trees in buffers were tallied by species and diameter. Tree volumes by species and diameter from the Stand Table report and grade percentages from the Species Sort and Grade report were then applied to the tally to estimate reserved volume which is subtracted from the gross cruise volume. Sale volumes were revised in October of 2013 to compensate for acreage loss in areas II and III due to a change in murrelette buffer policy.

6. **Timber Description:** The sale is a 35 to 42 year-old stand of planted Douglas-fir and red alder that seeded naturally into portions of the units where the plantations failed. A portion of the Douglas-fir in areas I and II is affected by Swiss needle caste. The Douglas-fir is an average of 12 inches DBH. The red alder is an average of 12 inches DBH. There is a small amount of bigleaf maple in the stand. The reserved conifer detected in the units was western hemlock.

**7. Statistical analysis and stand summary:** (See attached “Statistics” and “Stand Table Summary”)

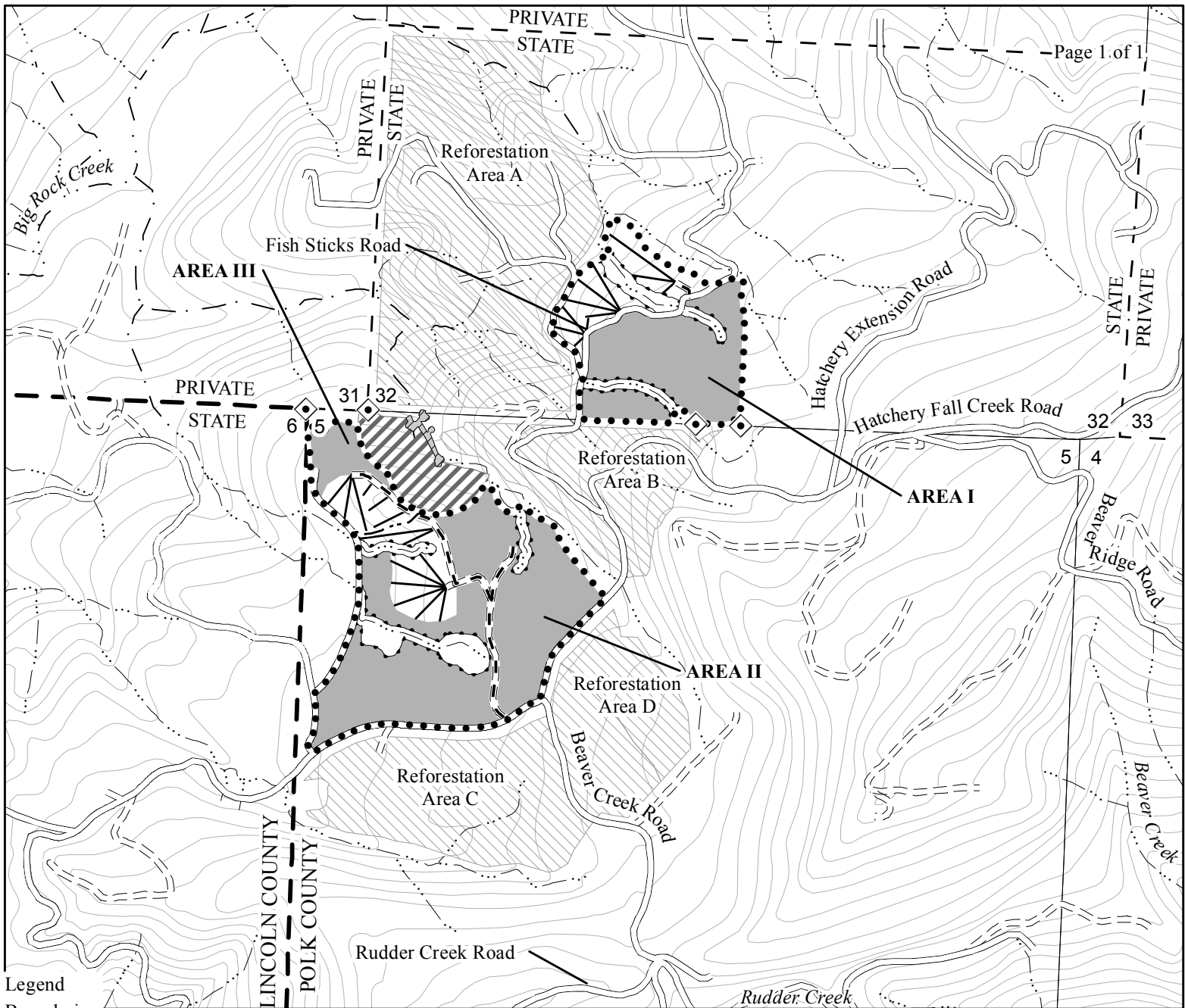
Area	Target CV	Target SE%	Actual CV	Actual SE%
I, II, & III	60% (DF)	13% (DF)	97%	13.8%

NOTE: Statistics shown are for Douglas-fir. Percentages are for Net BF volume, see attached “Project Statistics” and “Type Statistics” for other values.

**8. Total Volume (MBF) by Species and Grade:** See attached “Stand Table Summary” and “Log Stock Table”.  
Net volume includes 1% Hidden D&B for Douglas-fir and 3% Hidden D&B for Alder. Volumes do not include ingrowth.

Species	Gross Cruise Volume	Net Cruise Volume	Hidden D & B (MBF)	Reserved Tree Volume	Net Sale Volume
Area I					
Douglas-fir	269	261	3	27	231
Red alder	180	177	5	44	127
Area II					
Douglas-fir	501	496	5	13	478
Red alder	219	212	7	28	177
Area III					
Douglas-fir	37	37	1	--	36
Totals					
Douglas-fir	807	794	9	40	745
Red alder	399	389	12	72	304

Species	DBH	Net Vol.	2-Saw	3-Saw	4-Saw	Camprun	% D & B
Area I	Grade Percentages		2%	63%	35%	100%	
Douglas-fir	10.6	231	5	145	81	--	4%
Red alder	11.2	128	--	--	--	127	4%
Area II	Grade Percentages		35%	43%	22%		
	13.6	478	167	206	105	--	2%
	13.6	177	--	--	--	177	6%
Area III	Grade Percentages		--	63%	37%	--	
	12.1	36	--	23	13	--	2%
Sale Averages	Grade Percentages		23%	50%	27%	100%	--
Douglas-fir	12”	745	172	374	199	--	3%
Red alder	12”	305	--	--	--	304	5%



- Legend**
- Boundaries**
- Timber Sale Boundary
  - - - - Area Boundary (Posted)
  - - - State Forest Property Boundary
  - - - Right of Way (Posted)
- Roads**
- ===== Surfaced Road
  - ==== Unsurfaced Road
  - - - New Road Construction
- Streams**
- · · · Type F Stream
  - · · · Type N Stream
  - Posted Stream Buffer
- Yarding Method**
- Tractor Yarding Area
  - Cable Corridors
  - ▨ Reforestation Areas
  - ▩ Potential Suitable Habitat
  - ▨ Seasonally Restricted Buffer
  - ◆ Monuments

## LOGGING PLAN

OF TIMBER SALE CONTRACT NO. 341-14-58  
FIDDLE STICKS  
PORTIONS OF SECTION 32, T9S, R8W, AND  
SECTION 5, T10S, R8W, W.M.,  
POLK COUNTY, OREGON

This product is for informational use and may not have been prepared for or be suitable for legal, engineering or survey purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of this information.

AREA	NET ACRES	
	TRACTOR	CABLE
I (MC)	18	8
II (MC)	38	6
III (PC)	4	4
<b>TOTAL</b>	<b>60</b>	<b>18</b>

Scale  
1:12,000



Created By: Blake McKinley  
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Date: 10/23/2013