



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Little Beaver Creek
Sale 341-14-05

District: Forest Grove

Date: June 26, 2013

cost summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$1,627,665.60	\$14,137.88	\$1,641,803.48
		Project Work:	\$(108,110.00)
		Advertised Value:	\$1,533,693.48



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timber description

Location: Portions of Sections 13, 14, 23 & 24, T2N, R5W, W.M., Washington County, Oregon.

Stand Stocking: 20%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	21	0	98
Maple	15	0	90

Volume by Grade	2S	3S	4S	Camprun	Total
Douglas - Fir	2,679	1,018	131	0	3,828
Maple	0	0	0	68	68
Total	2,679	1,018	131	68	3,896



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comments: Pond Values Used: 2nd Quarter Calendar Year 2013.

Western Hemlock and Other Conifers Stumpage Price = Pond Value
minus Logging Cost:
\$323/MBF = \$485/MBF - \$162/MBF

Western redcedar and Other Cedars Stumpage Price = Pond Value
minus Logging Cost:
\$788/MBF = \$950/MBF - \$162/MBF

Red Alder Stumpage Price = Pond Value minus Logging Cost:
\$413/MBF = \$575/MBF - \$162/MBF

SCALING COST ALLOWANCE = \$5.00/MBF

FUEL COST ALLOWANCE = \$4.00/Gallon

HAULING COST ALLOWANCE

Hauling costs equivalent to \$780 daily truck cost.

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

Brand and Paint: 3,896 MBF @ \$1/MBF = \$3,896

Non Project Roads: 1,650 feet @ \$2 per foot = \$3,300

TOTAL Other Costs (with Profit & Risk to be added) = \$7,196

Other Costs (No Profit & Risk added):

Block/Waterbar Skid Roads: 10 Hours @ \$110/hour = \$1,100

Pile Landing Slash and Sort Firewood:

10 hours @ \$110/hour = \$1,100

Slash Treatment: 25 acres @ \$200/acre = \$5,000

Equipment Cleaning: 4 machines @ \$1,000/machine = \$4,000

Snag Creation: 80 trees @ \$40/tree = \$3,200

TOTAL Other Costs (No Profit & Risk added) = \$14,400

ROAD MAINTENANCE

Move-in: \$2,000

General Road Maintenance: 3.8 miles x \$1,000/mile = \$3,800

TOTAL: \$5,800 / 3,896 MBF = \$1.49/MBF



"STEWARDSHIP IN FORESTRY"

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logging conditions

combination#: 1 Douglas - Fir 56.00%
Maple 56.00%

yarding distance: Short (400 ft) **downhill yarding:** No
logging system: Cable: Small Tower <=40 **Process:** Stroke Delimber
tree size: Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF
loads / day: 8.0 **bd. ft / load:** 4,400
cost / mbf: \$80.52

machines: Log Loader (A)
Stroke Delimber (A)
Tower Yarder (Small)

combination#: 2 Douglas - Fir 44.00%
Maple 44.00%

yarding distance: Short (400 ft) **downhill yarding:** No
logging system: Shovel **Process:** Stroke Delimber
tree size: Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF
loads / day: 10.0 **bd. ft / load:** 4,400
cost / mbf: \$32.69

machines: Stroke Delimber (B)



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
 Little Beaver Creek
 Sale 341-14-05

District: Forest Grove

Date: June 26, 2013

logging costs

Operating Seasons:	1.00	Profit Risk:	10.00%
Project Costs:	\$108,110.00	Other Costs (P/R):	\$7,196.00
Slash Disposal:	\$0.00	Other Costs:	\$14,400.00

Miles of Road

Road Maintenance: \$1.49

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	4.8
Maple	\$0.00	2.0	3.8



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
 Little Beaver Creek
 Sale 341-14-05

District: Forest Grove

Date: June 26, 2013

logging costs breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
Douglas - Fir									
\$59.47	\$1.52	\$1.13	\$75.34	\$1.85	\$13.93	\$0.00	\$5.00	\$3.70	\$161.94
Maple									
\$59.47	\$1.64	\$1.13	\$102.63	\$1.85	\$16.67	\$0.00	\$5.00	\$3.70	\$192.09

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$587.14	\$425.20	\$0.00
Maple	\$0.00	\$400.00	\$207.91	\$0.00



"STEWARDSHIP IN FORESTRY"

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Little Beaver Creek
Sale 341-14-05

District: Forest Grove

Date: June 26, 2013

summary

Amortized

Specie	MBF	Value	Total
Douglas - Fir	0	\$0.00	\$0.00
Maple	0	\$0.00	\$0.00

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	3,828	\$425.20	\$1,627,665.60
Maple	68	\$207.91	\$14,137.88

Gross Timber Sale Value

Recovery: \$1,641,803.48

Prepared by: Eric Foucht

Phone: 503-359-7473

TIMBER SALE SUMMARY
Little Beaver Creek
Contract No. 341-14-05

1. **Location:** Portions of Sections 13, 14, 23 and 24, T2N, R5W, W.M.
2. **Type of Sale:** This timber sale is a 79 acre Modified Clearcut. The timber will be sold on a recovery basis at a sealed bid auction.
3. **Revenue Distribution:** 100% BOF, Washington County.
4. **Sale Acreage:** Acres are net of stream buffers and road prisms. Acreage was determined using ESRI ArcMap GIS software.
5. **Cruise :** The Timber Sale was cruised by ODF Cruisers in January of 2013. For more information see Cruise Report.
6. **Timber Description:** The Timber Sale Area is a well stocked 80 year old Douglas-fir stand. The average "take" Douglas-fir DBH is 21 inches. The estimated average net per acre Douglas-fir take volume is 49 MBF.
7. **Topography and Logging Method:** Slopes within the sale areas range from 5% to 55% and are variable in aspect. The Timber Sale Area is 44% ground-based yarding, and 56% cable-based yarding. The average horizontal cable yarding distance is approximately 450 feet and the maximum is approximately 930 feet. The average horizontal tractor yarding distance is approximately 400 feet and the maximum is approximately 700 feet. It is anticipated that construction of Non Project Road spurs will be required.
8. **Access:** All access to the Timber Sale Area is surfaced all-weather roads. From Forest Grove, travel northwest on Highway 8 to its junction with Highway 6. Turn left and proceed west 3.2 miles to the Timber Road. Turn right and proceed 1.8 miles to the Wildcat Mountain Road. Turn right and continue 2.7 miles to a spur road on the right, Turn right and continue ¼ mile to the Timber Sale Area. A key to the gate on the Wildcat Mountain Road is available at the Forest Grove District Office.

9. Projects:

Project No. 1: Rock Pit Clean-up and Stockpile Construction	\$92,174.29
Project No. 2: Vacate Road	\$14,089.54
Move in and equipment cleaning:	\$1,842.26

Total Credit for all Projects (rounded)	\$108,110
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PROJECT COST SUMMARY SHEET

Timber Sale: Little Beaver Creek

Sale Number: 341-14-05

PROJECT NO. 1: ROCK PIT CLEAN UP & STOCKPILE CONSTRUCTION

Clean up rock pit, crush and build a 3,500 cy stockpile of 1 1/2" - 0 rock
and a 3,500 cy stockpile of 3" - 0 rock

TOTAL PROJECT NO. 1 COST = \$91,912.32

PROJECT NO. 2: ROAD VACATING

<u>Segment</u>	<u>Length</u>
<u>A to B</u>	<u>44+75</u>
	44+75 sta
	0.85 mi

TOTAL PROJECT NO. 2 COST = \$14,089.54

MOVE IN & EQUIPMENT CLEANING

\$1,842.26

TOTAL ALL PROJECTS

\$107,844.12

TOTAL CREDITS

\$108,110.00

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Timber Sale: Little Beaver Creek

Sale Number: 341-14-05

Pit Name: Wildcat Mountain Pit

Shrinkage: <u>116%</u>	1 1/2" -0 Stockpile (stockpile measurement)	<u>3,500 cy</u>
Screening Loss: <u>40%</u>	3" - 0 Stockpile (stockpile measurement)	<u>3,500 cy</u>
	Total Truck Yardage:	<u>8,120 cy</u>

Load Crusher:	<u>\$0.70</u>	/cy x	<u>13,400</u>	cy =	\$9,380.00
Screen Rock (1st Screen)	<u>\$1.25</u>	/cy x	<u>13,400</u>	cy =	\$16,750.00
Waste Reject (1st Screen)	<u>\$0.70</u>	/cy x	<u>3,490</u>	cy =	\$2,443.00
Screen Rock (2nd Screen)	<u>\$1.25</u>	/cy x	<u>9,910</u>	cy =	\$12,387.50
Waste Reject (2nd Screen)	<u>\$0.70</u>	/cy x	<u>1,790</u>	cy =	\$1,253.00
Crushing (1-1/2" - 0):	<u>\$3.00</u>	/cy x	<u>4,060</u>	cy =	\$12,180.00
Crushing (3" - 0):	<u>\$3.00</u>	/cy x	<u>4,060</u>	cy =	\$12,180.00
Build and Shape Stockpiles:	<u>\$1.00</u>	/cy x	<u>8,120</u>	cy =	\$8,120.00

Subtotal \$81,343.50

Move in Crusher (Stage 3)					\$2,987.00
Set up Crusher					\$3,024.00
Move in 2 Screening Plants					\$930.00
Set up 2 Screening Plants					\$790.00
Move in Excavator					\$748.55
Move in Loaders					\$1,199.27
Clean Up Pit					\$500.00
Gradation Tests (\$65/2000 cy)	<u>\$65.00</u>	cy/2000cy x	<u>6</u>	tests	<u>\$390.00</u>

Subtotal \$10,568.82

PIT DEVELOPMENT COST \$11.32/cy

TOTAL PRODUCTION COST \$91,912.32

SUMMARY OF CONSTRUCTION COST

Timber Sale:	<u>Little Beaver Creek</u>	Timber Sale No. :	<u>341-14-05</u>
Road Segment:	<u>A to B</u>	Road Vacating :	<u>44+75 stations</u> <u>0.85 miles</u>

PROJECT NO. 2

ROAD VACATING

Remove existing culverts	6 each @	150.00 per each =	\$900.00
Remove gate	1 each @	150.00 per each =	\$150.00
Remove excavated culverts and gate from STATE LAND	1 each @	150.00 per each =	\$150.00
Rip surfaced road	44.75 sta @	50.00 per sta =	\$2,237.50
Fill excavation & sidecast pullback	2857.00 cy @	2.12 per cy =	\$6,056.84
10-12 CY highway dump truck	10.00 hr @	75.00 pr hr =	\$750.00
Construct waterbars	15.00 each @	25.00 each =	\$375.00
Construct tank traps	2 each @	50.00 per each =	\$100.00
Grass seed and fertilize areas of disturbed soil.	4.11 acres @	\$220.00 per acre =	\$904.20
Straw mulching (hand)	4.11 acres @	\$600.00 per acre =	\$2,466.00

PROJECT NO. 2 TOTAL COST = \$14,089.54

TOTAL COST = \$14,089.54

Move-In & Equipment Cleaning

Timber Sale: Little Beaver Creek
 Sale Number: 341-14-05

LOWBOY HAUL (One-way)		
DIST. (mi)	ROAD	AVE SPEED (mph)
3.0	Main Lines	7
1.0	Steep Grades	2

No.	EQUIPMENT DESCRIPTION	Equipment Cleaning	Base Cost	Woods Cost	Pilot Cars	Area Move	Within		Total Area	Total Cost
							Begin Mileage	End Mileage		
1	Excavators (Large)	\$1,000	\$466.14	\$245.45	1	\$44.80	0.0	0.0	\$0.00	\$1,711.59
1	Dump Truck (10 cy +)		\$116.67	\$14.00		\$2.85	0.0	0.0	\$0.00	\$130.67
TOTAL MOVE-IN COSTS:										\$1,842.26

CRUISE REPORT
Little Beaver Creek
341-14-05

1. LOCATION: Portions of Sections 13, 14, 23 and 24, T2N, R5W, W.M., Washington County, Oregon.

2. CRUISE DESIGN:

The cruise design assumed a Coefficient of Variation of 48%, an average stand diameter of 20 inches, a desired sampling error (SE%) of 11% and a minimum sample size of 100 grade trees. Pre-cruise plots indicated that approximately 5 trees per plot could be realized with a 40 BAF prism.

3. SAMPLING METHOD:

The Sale Area was cruised in January of 2013 with 26 variable radius grade plots using a 40 BAF prism. Plots were laid out on a 5 chain x 5 chain grid. Plots falling on or near existing roads or no-harvest areas were offset 1 chain.

4. CRUISE RESULTS

142 trees were measured and graded producing a cumulative sampling error of 8.8% on the Douglas-fir basal area and 8.6% on the Douglas-fir Board Foot Volume.

5. TREE MEASUREMENT AND GRADING:

All sample trees were measured and graded following Columbia River Log Scale grade rules and favoring 40 foot segments.

a) **Height Standards:**

Total tree heights were measured to the nearest foot. Bole heights were calculated to a six inch top or to 25% of DBH, whichever was greater.

b) **Diameter Standards:** Diameters were measured outside bark at breast height to the nearest inch.

c) **Form Factors** were measured for each grade tree using a form point of 16 feet.

6. DATA PROCESSING

a) **Volumes and Statistics,** Volume estimates and sampling statistics were derived using Super Ace 2008 cruise software.

b) **Deductions:** Two percent of the volume was subtracted from the computed volumes to account for hidden defect and breakage.

7. Cruisers: The sale was cruised by ODF cruisers Mark Savage and Joe Koch.

Prepared by:

Eric Foucht

Date

Reviewed by:

Erik Marcy

Date

Log Stock Table - MBF

TT2N RR5W S13 Ty00A1	79.00
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Project: LILBEAV
Acres 79.00

Page 2
Date 5/1/2013
Time 9:12:57AM

Spp	S T	So Gr rt de	Log Len	Gross MBF	Def %	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches													
								2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+		
BM		CR	30	25		25	38.6					8				17					
BM		CR	40	9		9	13.9					9									
BM		Totals		64		64	1.6					35	12			17					
RA		CR	18	5		5	100.0					5									
RA		Totals		5		5	.1					5									
Total		All Species		3,977		3,976	100.0			3	255	288	407	510	643	1346	404	102		18	

Species, Sort Grade - Board Foot Volumes (Project)

TT2N RR5W S13 Ty00A1	79.00
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Project: LILBEAV
Acres 79.00

Page 1
Date 5/1/2013
Time 9:08:30AM

S Spp	So T	Gr rt ad	% Net BdFt	Bd. Ft. per Acre Def% Gross Net			Total Net MBF	Percent of Net Board Foot Volume								Average Log				Logs Per /Acre							
								Log Scale Dia.				Log Length				Ln Ft	Dia In	Bd Ft	CF/ Lf								
								4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99												
DF		CU																									
DF		2M	69		34,605	34,605	2,734				41	59	2	2	1	96	39	16	406	1.90						85.2	
DF		3M	27	.1	13,162	13,148	1,039			74	26		1	2	7	90	38	9	124	0.76						105.7	
DF		4M	4		1,694	1,694	134			2	98		43	23	24	10	19	6	25	0.36						67.8	
DF Totals			98	.0	49,461	49,447	3,906			0	23	35	42	3	3	3	91	32	11	182	1.12					272.1	
BM		CU																									9.1
BM		CR	100		811	811	64			74	26			86	14		27	9	78	0.81						10.3	
BM Totals			2		811	811	64			74	26			86	14		30	8	42	0.40						19.5	
RA		CU																									1.7
RA		CR	100		67	67	5			100				100			18	9	40	0.76						1.7	
RA Totals			0		67	67	5			100				100			25	7	20	0.27						3.3	
Totals					0.0	50,338	50,324	3,976		0	24	35	41	3	4	3	90	32	11	171	1.07					294.9	

TC		PSTNDSUM		Stand Table Summary										Page 1		
														Date: 5/1/2013		
TT2N RR5W S13 Ty00A1 79.00				Project LILBEAV					Time: 9:15:08AM							
				Acres 79.00					Grown Year:							
S Sp	T	DBH	Sample Trees	FF 16'	Av Ht	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals		
									Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF
DF		10	1	90	121	2.821	1.54	5.64	9.4	45.0	1.51	53	254	120	42	20
DF		12	1	76	81	1.959	1.54	3.92	7.8	25.0	.87	31	98	69	24	8
DF		14	4	88	112	5.757	6.15	15.83	14.2	63.6	6.42	225	1,007	507	178	80
DF		15	3	89	121	4.384	5.38	11.57	16.0	76.5	5.28	185	885	417	146	70
DF		16	6	89	124	7.417	10.36	18.40	21.1	99.0	11.06	388	1,821	874	307	144
DF		17	3	89	134	2.928	4.62	8.78	24.0	107.8	6.02	211	947	475	167	75
DF		18	3	89	122	2.816	4.98	8.45	22.0	98.2	5.29	186	829	418	147	66
DF		19	5	89	133	4.295	8.46	12.89	27.7	128.6	10.18	357	1,657	804	282	131
DF		20	6	90	149	4.396	9.59	13.89	34.1	169.1	13.52	474	2,349	1,068	375	186
DF		21	8	89	144	5.267	12.67	16.44	36.8	183.8	17.26	605	3,022	1,363	478	239
DF		22	8	88	146	4.936	13.03	16.11	38.8	189.8	17.79	624	3,058	1,406	493	242
DF		23	13	89	149	7.572	21.85	26.82	39.7	198.3	30.35	1,065	5,320	2,398	841	420
DF		24	7	90	153	3.658	11.49	12.56	46.7	232.3	16.71	586	2,918	1,320	463	230
DF		25	17	89	150	8.096	27.60	28.56	48.0	237.3	39.06	1,370	6,776	3,086	1,083	535
DF		26	10	89	149	4.760	17.55	16.66	48.6	251.1	23.08	810	4,184	1,823	640	331
DF		27	6	88	152	2.412	9.59	8.88	52.6	277.2	13.31	467	2,460	1,051	369	194
DF		28	4	88	160	1.639	7.01	6.56	53.2	284.9	9.93	349	1,868	785	275	148
DF		29	5	87	160	1.756	8.05	7.02	59.2	309.4	11.85	416	2,173	936	328	172
DF		30	2	88	161	.700	3.44	2.80	62.4	335.2	4.98	175	939	394	138	74
DF		31	7	89	160	2.261	11.85	9.04	66.1	368.9	17.04	598	3,336	1,346	472	264
DF		32	1	89	159	.340	1.90	1.36	64.6	367.5	2.51	88	500	198	69	39
DF		33	2	90	169	.640	3.80	2.56	74.1	433.7	5.40	190	1,110	427	150	88
DF		34	3	89	161	.846	5.34	3.39	79.5	446.5	7.67	269	1,512	606	213	119
DF		45	1	81	163	.139	1.54	.56	148.6	760.0	2.36	83	423	186	65	33
DF		Totals	126	89	139	81.795	209.31	258.68	37.9	191.1	279.45	9,805	49,447	22,077	7,746	3,906
BM		12	2	76	90	3.918	3.08	3.92	15.9	45.0	1.65	62	176	130	49	14
BM		14	1	76	88	1.439	1.54	1.44	25.0	70.0	.95	36	101	75	28	8
BM		15	2	75	88	2.507	3.08	2.51	22.8	65.0	1.52	57	163	120	45	13
BM		17	1	75	71	.976	1.54	.98	26.7	90.0	.69	26	88	55	21	7
BM		19	1	76	114	.781	1.54	.78	16.0	90.0	.33	12	70	26	10	6
BM		21	1	95	117	.709	1.70	.71	50.5	300.0	.95	36	213	75	28	17
BM		Totals	8	77	91	10.330	12.47	10.33	22.2	78.5	6.09	230	811	481	182	64
RA		13	1	76	71	1.669	1.54	1.67	13.6	40.0	.62	23	67	49	18	5
RA		Totals	1	76	71	1.669	1.54	1.67	13.6	40.0	.62	23	67	49	18	5
RC		11	2	82	93	5.884	3.88									
RC		13	1	81	75	2.544	2.34									
RC		14	1	80	116	2.193	2.34									
RC		24	1	83	115	.490	1.54									
RC		27	1	80	125	.387	1.54									
RC		33	1	81	113	.259	1.54									
RC		Totals	7	81	96	11.757	13.19									
Totals			142	86	128	105.552	236.51	270.68	37.2	185.9	286.17	10,058	50,324	22,607	7,946	3,976

TC PSTATS		PROJECT STATISTICS							PAGE	1	
		PROJECT		LILBEAV			DATE		5/1/2013		
TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt		
T2N	R5	13	0001	00A1	79.00	26	142	S	W		
		PLOTS		TREES	ESTIMATED TOTAL	PERCENT SAMPLE					
				PER PLOT	TREES	TREES					
TOTAL		26		142	5.5						
CRUISE		26		142	5.5	8,339	1.7				
DBH COUNT											
REFOREST											
COUNT											
BLANKS											
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	
DOUG FIR-L	1	.1	45.0	163	0.2	1.5	423	423	83	83	
DOUG FIR-T	125	81.7	21.6	139	44.7	207.8	49,037	49,023	9,723	9,723	
WR CEDAR-L	7	11.8	14.3	96	3.5	13.2					
BL MAPLE-T	8	10.3	14.9	91	3.2	12.5	811	811	230	230	
R ALDER-T	1	1.7	13.0	71	0.4	1.5	67	67	23	23	
TOTAL	142	105.6	20.3	128	52.5	236.5	50,338	50,324	10,058	10,058	
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.				
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	0				
DOUG FIR-L											
DOUG FIR-T	52.2	4.7		745	781	818					
WR CEDAR-L											
BL MAPLE-T	88.5	33.4		64	96	128					
R ALDER-T											
TOTAL	68.4	5.7		674	715	756	187	47	21		
CL	68.1	COEFF	SAMPLE TREES - CF				# OF TREES REQ.				
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	0				
DOUG FIR-L											
DOUG FIR-T	46.7	4.2		146	152	159					
WR CEDAR-L											
BL MAPLE-T	53.5	20.2		20	24	29					
R ALDER-T											
TOTAL	63.6	5.3		132	140	147	162	40	18		
CL	68.1	COEFF	TREES/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR-L	509.9	102.0			0	0					
DOUG FIR-T	56.9	11.4		72	82	91					
WR CEDAR-L	228.8	45.8		6	12	17					
BL MAPLE-T	241.0	48.2		5	10	15					
R ALDER-T	509.9	102.0			2	3					
TOTAL	44.3	8.9		96	106	115	82	20	9		
CL	68.1	COEFF	BASAL AREA/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR-L	509.9	102.0			2	3					
DOUG FIR-T	43.9	8.8		190	208	226					
WR CEDAR-L	193.2	38.6		8	13	18					
BL MAPLE-T	219.4	43.9		7	12	18					
R ALDER-T	509.9	102.0			2	3					
TOTAL	35.8	7.2		220	237	253	53	13	6		

PROJECT STATISTICS
PROJECT LILBEAV

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
T2N	R5	13	0001	00A1	79.00	26	142	S	W

CL	68.1	COEFF	NET BF/ACRE			# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DOUG FIR-L		509.9	102.0		423	855			
DOUG FIR-T		42.9	8.6	44,813	49,023	53,234			
WR CEDAR-L									
BL MAPLE-T		218.4	43.7	457	811	1,165			
R ALDER-T		509.9	102.0		67	135			
TOTAL		40.1	8.0	46,287	50,324	54,362	67	17	7

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
DOUG FIR-L		509.9	102.0		83	167			
DOUG FIR-T		41.4	8.3	8,919	9,723	10,527			
WR CEDAR-L									
BL MAPLE-T		225.9	45.2	126	230	334			
R ALDER-T		509.9	102.0		23	46			
TOTAL		37.6	7.5	9,301	10,058	10,814	59	15	7

LITTLE BEAVER CREEK

SALE NO 341-14-05

May, 2013

VOLUME SUMMARY

(Shown in MBF)

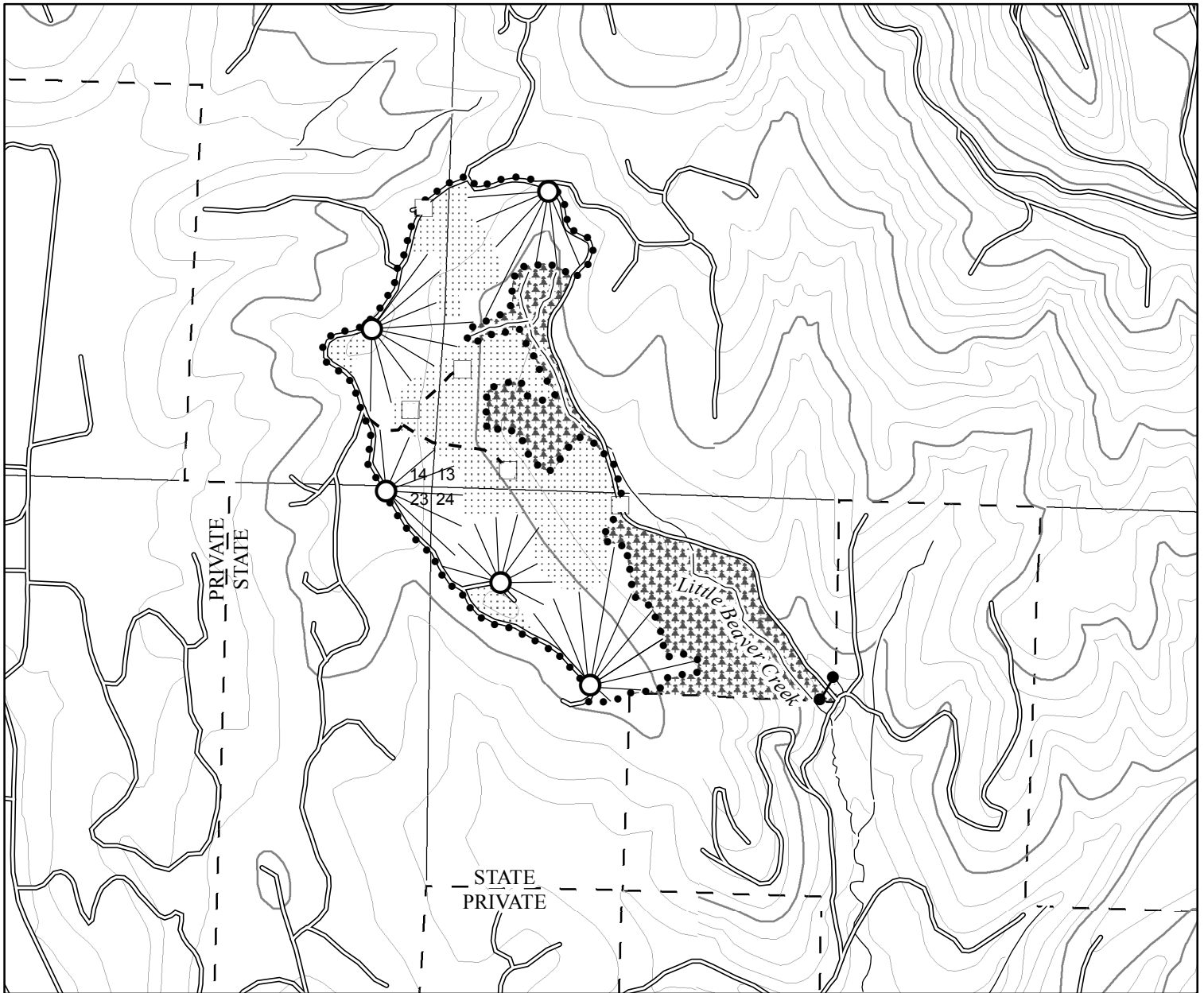
SALE AREA: MC (79 ACRES)

SPECIES		2 SAW	3 SAW	4 SAW	CR	TOTAL
Douglas-fir	Cruise Volume	2,734	1,039	134		3,907
	Hidden D&B (2%)	(55)	(21)	(3)		(78)
	NET TOTAL	2,679	1,018	131		3,828
	% of Total	70	27	3		

SPECIES		2 SAW	3 SAW	4 SAW	CR	TOTAL
Bigleaf Maple & Other Hardwoods	Cruise Volume	0	0	0	69	69
	Hidden D&B (2%)	()	()	()	(1)	(1)
	NET TOTAL	0	0	0	68	68
	% of Total	0	0	0	100	

SALE TOTAL

SPECIES		2 SAW	3 SAW	4 SAW	CR	TOTAL
Douglas-fir		2,679	1,018	131	68	3,896



Legend

- Timber Sale Boundary
- Roads
- - - Non Project Roads
- Streams
- Cable Landing
- Tractor Landing
- ↙ Cable Yarding Area
- ▒ Tractor Yarding Area
- ▒ Green Tree Retention Area
- 400 Foot Contour Band
- 80 Foot Contour Band
- ┌ ┐ ODF Ownership Boundary
- Section Lines
- Gate

LOGGING PLAN

FOR TIMBER SALE CONTRACT # 341-14-05
 LITTLE BEAVER CREEK
 PORTIONS OF SECTIONS 13, 14, 23 & 24, T2N, R5W, W.M.
 WASHINGTON COUNTY, OREGON

Forest Grove District GIS
 May, 2013

This product is for informational use and may not be
 suitable for legal, engineering, or surveying purposes.



APPROXIMATE NET ACRES

	TRACTOR	CABLE
	35	44

1:12,000

1 inch = 1,000 feet

