



"STAND FOR THE FOREST"

Timber Sale Appraisal Switch Up

Sale WO-341-2016-60-

District: West Oregon

Date: November 04, 2015

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$309,254.40	\$2,435.22	\$311,689.62
		Project Work:	(\$8,704.00)
		Advertised Value:	\$302,985.62



"SUSTAINABLE FORESTRY"

Timber Sale Appraisal Switch Up

Sale WO-341-2016-60-

District: West Oregon

Date: November 04, 2015

Timber Description

Location: Portions of Sections 26 and 27, T11S, R8W, W.M., Lincoln County, Oregon.

Stand Stocking: 80%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	16	0	95
Alder (Red)	21	0	90

Volume by Grade	2S	3S	4S	Camprun	Total
Douglas - Fir	496	508	235	0	1,239
Alder (Red)	0	0	0	9	9
Total	496	508	235	9	1,248

Comments: Pond Values Used: Local Pond Values.

Western Hemlock and Other Conifers Stumpage Price = Pond Value minus Logging Cost:
 $\$270.64/\text{MBF} = \$435/\text{MBF} - \$164.36/\text{MBF}$

Western redcedar and Other Cedars Stumpage Price = Pond Value minus Logging Cost:
 $\$1,085.64/\text{MBF} = \$1,250/\text{MBF} - \$164.36/\text{MBF}$

SCALING COST ALLOWANCE = \$5.00/MBF

FUEL COST ALLOWANCE = \$3.00/Gallon

LOG HAUL:
Costed to Philomath.

HAULING COST ALLOWANCE
Hauling costs equivalent to \$780 daily truck cost.

Other Costs (with Profit & Risk to be added):
Branding & Painting: 1,247 MBF @ \$1/MBF = \$1,247
Intermediate Supports/Tail Trees: 12 trees @ \$100/tree = \$1,200
Felling Un-merchantable Material: 2 acres @ \$100/acre = \$200
TOTAL Other Costs (with Profit & Risk to be added) = \$2,647

Other Costs (No Profit & Risk added):
Non-Project Roads and Landings: \$250
Invasive Species Equipment Cleaning: \$2,000
Firewood Sorting: 4 landings @ \$100/landing = \$400
TOTAL Other Costs (No Profit & Risk added) = \$2,650

SLASH DISPOSAL
Move-in = \$750
Project Work: 20 hrs @ \$150/hr = \$3,000
Total Slash Disposal = \$3,750



Timber Sale Appraisal Switch Up

Sale WO-341-2016-60-

District: West Oregon

Date: November 04, 2015

Logging Conditions

Combination#: 1 Douglas - Fir 26.00%
 Alder (Red) 26.00%

Logging System: Shovel **Process:** Stroke Delimber

yarding distance: Short (400 ft) **downhill yarding:** No

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

loads / day: 20 **bd. ft / load:** 3800

cost / mbf: \$41.74

machines: Stroke Delimber (B)

Combination#: 2 Douglas - Fir 4.00%
 Alder (Red) 4.00%

Logging System: Cable: Small Tower <=40 **Process:** Stroke Delimber

yarding distance: Short (400 ft) **downhill yarding:** Yes

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

loads / day: 12 **bd. ft / load:** 3800

cost / mbf: \$153.51

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

Combination#: 3 Douglas - Fir 42.00%
 Alder (Red) 42.00%

Logging System: Cable: Medium Tower >40 - <70 **Process:** Stroke Delimber

yarding distance: Medium (800 ft) **downhill yarding:** No

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

loads / day: 9 **bd. ft / load:** 3800

cost / mbf: \$175.44

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

Combination#: 4 Douglas - Fir 28.00%
 Alder (Red) 28.00%

Logging System: Cable: Medium Tower >40 - <70 **Process:** Stroke Delimber

yarding distance: Long (1,500 ft) **downhill yarding:** No

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

loads / day: 6 **bd. ft / load:** 3800

cost / mbf: \$263.16

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



STRONGER FORESTRY

Timber Sale Appraisal Switch Up

Sale WO-341-2016-60-

District: West Oregon

Date: November 04, 2015

Logging Costs

Operating Seasons: 1.00	Profit Risk: 12%
Project Costs: \$8,704.00	Other Costs (P/R): \$2,647.00
Slash Disposal: \$3,750.00	Other Costs: \$2,650.00

Miles of Road

Road Maintenance: \$1.33

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	4.6
Alder (Red)	\$0.00	2.0	3.5

Local Pond Values

Date	Specie	Grade	Value
11/04/2015	Douglas - Fir	2S	\$585.00
11/04/2015	Douglas - Fir	3S	\$540.00
11/04/2015	Douglas - Fir	4S	\$505.00



STRONGER FORESTRY

Timber Sale Appraisal Switch Up

Sale WO-341-2016-60-

District: West Oregon

Date: November 04, 2015

Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
Douglas - Fir									
\$164.36	\$1.40	\$3.51	\$89.02	\$2.12	\$31.25	\$3.00	\$5.00	\$2.12	\$301.78
Alder (Red)									
\$164.36	\$1.46	\$3.51	\$122.57	\$2.12	\$35.28	\$3.00	\$5.00	\$2.12	\$339.42

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$551.38	\$249.60	\$0.00
Alder (Red)	\$0.00	\$610.00	\$270.58	\$0.00



"SUSTAINABLE FORESTRY"

Timber Sale Appraisal Switch Up

Sale WO-341-2016-60-

District: West Oregon

Date: November 04, 2015

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	1,239	\$249.60	\$309,254.40
Alder (Red)	9	\$270.58	\$2,435.22

Gross Timber Sale Value

Recovery: \$311,689.62

Prepared By: Matt McBride

Phone: 541-929-3266

SUMMARY OF ALL PROJECT COSTS

Sale Name: Switch Up

Date: September 2015

Time: 10:45

Project #1 - New Construction

<u>Road Segment</u>	<u>Length</u>	<u>Cost</u>
A2 to A3	6.4 sta	\$1,066
A4 to A5	3.1 sta	\$624

TOTALS

9.5 sta

\$1,690

Project #2 - Improvements

<u>Road Segment</u>	<u>Length</u>	<u>Cost</u>
A to A1	17.0 sta	\$1,630
B to B1	46.3 sta	\$2,259
B1 to B2	27.7 sta	\$1,322

TOTALS

91.0 sta

\$5,211

Project #3 - Post Harvest Activities

\$561

Move in

	<u>Cost</u>	<u>On-site move</u>
Crawler tractor, D-7 or equiv.	\$547	
Grader, Cat 14-G or equiv.	\$340	\$10
Backhoe	\$340	\$5

TOTAL

\$1,242

GRAND TOTAL

\$8,704

Compiled by M. McBride

Date 09/14/2015

SUMMARY OF CONSTRUCTION COST

SALE	Switch Up	Project #	2	LENGTH	improve	17.0 sta
ROAD	A to A1					

IMPROVEMENT

Re-open road	17.0 sta.	@	\$45.27	/sta	=	\$770
Re-open landing	2 hrs.	@	\$93.33	/hr.	=	\$187
Shape surface (with road grader)	17.0 sta.	@	\$7.99	/sta	=	\$136

TOTAL IMPROVEMENT	\$1,093
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SURFACING

			Size	Cost/yd		
Surface rock (6"lift)	34	cy of	3-0"	\$14.91	=	\$507
Ditch fill rock	2	cy of	3-0"	\$14.91	=	\$30

TOTAL ROCK COST =	\$537
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Compiled by:	M. McBride
Date:	Sep 14, 2015

GRAND TOTAL =====>	\$1,630
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SUMMARY OF CONSTRUCTION COST

SALE	Switch Up	Project # 1	LENGTH	const	6.4 sta
ROAD	A2 to A3				

CLEARING AND GRUBBING

0.35 acres	@	\$1,010.24 /acre	=	\$354 road
0.10 acres	@	\$1,010.24 /acre	=	\$101 landing

TOTAL CLEARING AND GRUBBING = \$455

EXCAVATION

With D7 dozer or equivalent

Construct road	6.4 sta.	@	\$74.28 /sta.	=	\$475
Construct landing	1 hr.	@	\$135.80 /hr.	=	\$136

TOTAL EXCAVATION = \$611

Compiled by: M. McBride
Date: Sep 14, 2015

GRAND TOTAL =====> \$1,066

SUMMARY OF CONSTRUCTION COST

SALE	Switch Up	Project # 1	LENGTH	const	3.1 sta
ROAD	A4 to A5				

CLEARING AND GRUBBING

0.17 acres	@	\$1,010.24 /acre	=	\$172 road
0.10 acres	@	\$1,010.24 /acre	=	\$101 landing

TOTAL CLEARING AND GRUBBING = \$273

EXCAVATION

With D7 dozer or equivalent

Construct road	3.1 sta.	@	\$74.28 /sta.	=	\$230
Construct landing	1 hr.	@	\$121.25 /hr.	=	\$121

TOTAL EXCAVATION = \$351

Compiled by: M. McBride
Date: Sep 14, 2015

GRAND TOTAL =====> \$624

SUMMARY OF CONSTRUCTION COST

SALE Switch Up Project # 2 LENGTH improve 46.3 sta
ROAD B to B1

IMPROVEMENT

Shape surface 46.3 sta. @ \$13.75 /sta = \$637
(with road grader)

TOTAL IMPROVEMENT \$637

SURFACING

Spot rock 90 cy of Size Cost/yd
100 cy/mi. 1½-0" \$16.60 = \$1,494

TOTAL ROCK COST = \$1,494

SPECIAL PROJECTS

Clean out culverts 5 culverts @ \$25.67 ea. = \$128
(inlets and outlets)

TOTAL SPECIAL PROJECTS COST = \$128

Compiled by: M. McBride
Date: Sep 14, 2015

GRAND TOTAL =====> \$2,259

SUMMARY OF CONSTRUCTION COST

SALE Switch Up Project # 2 LENGTH improve 27.7 sta
ROAD B1 to B2

IMPROVEMENT

Shape surface (with road grader)	27.7 sta.	@	\$9.90 /sta	=	\$274
Re-open turnaround (with road grader)	0.5 hrs.	@	\$ 90.75 /hr.	=	\$45
Hand Brush (with Chainsaw Pt. B1 to Pt. B2)	4.0 hrs.	@	\$49.58 /hr.	=	\$198

TOTAL IMPROVEMENT \$517

SURFACING

			Size	Cost/yd	
Spot rock 100 cy/mi.	54 cy of		3-0"	\$14.91	= \$805

TOTAL ROCK COST = \$805

Compiled by: M. McBride
Date: Sep 14, 2015

GRAND TOTAL =====> \$1,322

SUMMARY OF CONSTRUCTION COST

SALE Switch Up - Project #3 Post Harvest
ROAD

SURFACING

		Size	Cost/CY		
Landing patch rock (4)	36 cy of	3-0"	\$14.91	=	\$ 537
(B1 to B2)					

TOTAL SURFACING COST = \$537

MISCELLANEOUS PROJECTS

Tank trap (1) at Pt. A1	0.5 hr.	@	\$48.35 /hr.	=	\$24
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TOTAL MISCELLANEOUS PROJECTS = \$24

Compiled by:
Date:

M. McBride
Sep 14, 2015

GRAND TOTAL =====> \$561

Wear Rock Volumes

Road Segment	FMEAS	TMEAS	Length (feet)	Miles	Area	Area Vol	Haul Vol	Wear_Rock CY
B to B1			4630	0.88		1247	800	18.00
B1 to B2			2770	0.52		1247	800	10.00

Total 28.00

SUMMARY OF MAINTENANCE COST

SALE Switch Up - Final Maintenance Cost Estimate
(Costed in appraisal, not in project costs)

Grading Move-in \$ 304

Road Segment	Length	Cost/Sta	Cost	Mileage
B to B1	46.3	\$13.75	\$636.63	0.88
B1 to B2	27.7	\$9.90	\$274.23	0.52

Total	74.0		\$910.86	1.40
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Maintenance Rock:

	Volume	Cost/CY	Cost
1½-0"	27	\$16.60	\$448.20
3-0"	9	\$14.91	\$134.19

Grand Total \$ 1,797.25

TS Volume 1,247 MBF

Cost / MBF = \$1.44

NOTES:

Rock Haul Cost Computation

SALE NAME: Switch Up
ROAD NAME: Goat Ridge
ROCK SOURCE: Rickard
Route:

DATE: Sep 14, 2015
CLASS: Medium
9 CY truck

TIME Computation:

Road speed time factors:

1.	55 MPH	12.3	MRT	13.4 minutes
2.	50 MPH		MRT	0.0 minutes
3.	45 MPH		MRT	0.0 minutes
4.	40 MPH		MRT	0.0 minutes
5.	35 MPH	2.1	MRT	3.6 minutes
6.	30 MPH		MRT	0.0 minutes
7.	25 MPH		MRT	0.0 minutes
8.	20 MPH	1.3	MRT	3.9 minutes
9.	15 MPH	1.4	MRT	5.6 minutes
10.	10 MPH		MRT	0.0 minutes
11.	05 MPH		MRT	0.0 minutes

Dump or spread time per RT 0.50 minutes

Total hauling cycle time for this setting
(100% efficiency) 27.00 minutes

Operator efficiency correction 0.85 31.76 minutes

Job efficiency correction 0.90 35.29 minutes

Truck capacity (CY) 9.00 3.92 min/CY

Loading time, delay time per CY 0.25 min/CY

TIME (minutes) per cubic yard 4.17 min/CY

COST per CY computation

Cost of truck and operator per hour \$61.50 /hr.

Cost of truck and operator per minute \$1.03 /min

Cost per CY \$4.30 /CY

Spread and compact Water truck, Grader & Roller \$1.50 /CY

Size	Cost/Yd (Pit)	Cost Delivered w/o processing	Cost Delivered with processing
1½ - 0"	\$ 10.80	\$15.10	\$16.60
3 - 0"	\$ 9.11	\$13.41	\$14.91
Jaw Run	\$ 8.10	\$12.40	\$13.90
Pit-Run	7.43	\$11.73	\$13.23

TIMBER CRUISE REPORT

1. **Sale Area Location:** Portions of Sections 26 and 27, T11S, R08W, W.M., Lincoln County, Oregon

2. **Fund Distribution:**

- a. **Fund** BOF 78.66%
 CSL 21.34%
- b. **Tax Code**

3. **Sale Acreage by Area:**

Area	Treatment	Gross Acres	Acreage Adjustment	Net Sale Acres	Acreage Comp. Method
1	Modified Clearcut	64	Cruise	58	Ortho photo, GIS, GPS

4. **Cruisers and Cruise Dates:** The sale was cruised by Matt McBride in July of 2015.

5. **Cruise Method and Computation:** The sale consists of 1 modified clear-cut area that was cruised using variable plot sampling. The sale area was stratified into two areas, which were: 38 acres of well stocked Douglas-fir, and 20 acres of poorly stocked Douglas-fir with red alder. The first area was cruised using a 40 BAF with plots spaced 396 feet apart on plot lines spaced 396 feet apart, and the second area was cruised with a 20 BAF with plots spaced 198 feet apart. A total of 21 plots were taken with 12 count plots and 9 cruise plots. Cruise plots were measured for DBH, height, form factor, grade, and defect. Data was entered into the Atterbury SuperACE 2004 cruise program to calculate net board feet per acre. Individually marked green trees within the sale areas were tallied and removed from the final calculated volume.

Stereo photos, digital ortho photos, LiDar data, and GPS data from a Garmin GPSmap 60CSx were used to map the boundaries for the sale, and ArcMap 10.2 was used to determine gross and net acreage.

6. **Measurement Standards:** Heights were measured to the nearest foot, to a top diameter of 6 inches inside bark or total height. Diameters were measured to the nearest inch, and a form point of 16 feet was used to calculate form factor. All trees were graded in 40 foot segments unless breakage, defect, or length to top of grade cruise diameter warranted otherwise.

Timber Description: Timber in sale area 1 includes 20 acres of 35 year-old Douglas-fir and Red Alder with scattered Big Leaf Maple and 38 acres of 37 year-old Douglas-fir and Red Alder with scattered Big Leaf Maple. Conifer trees other than Douglas-fir are reserved from cutting in all sale areas.

7. **Statistical Analysis and Stand Summary:** (See attached "Statistics").

AREA	Target CV	Target SE	Actual CV	Actual SE
1	50%	13%	47.5%	8.3%

Note: Statistics shown are for Douglas-fir and hardwood trees combined. Percentages are for net board foot volume.

8. Total Volume (MBF) by Species and Grade: (See attached “Stand Table Summary” and “Species, Sort Grade”).

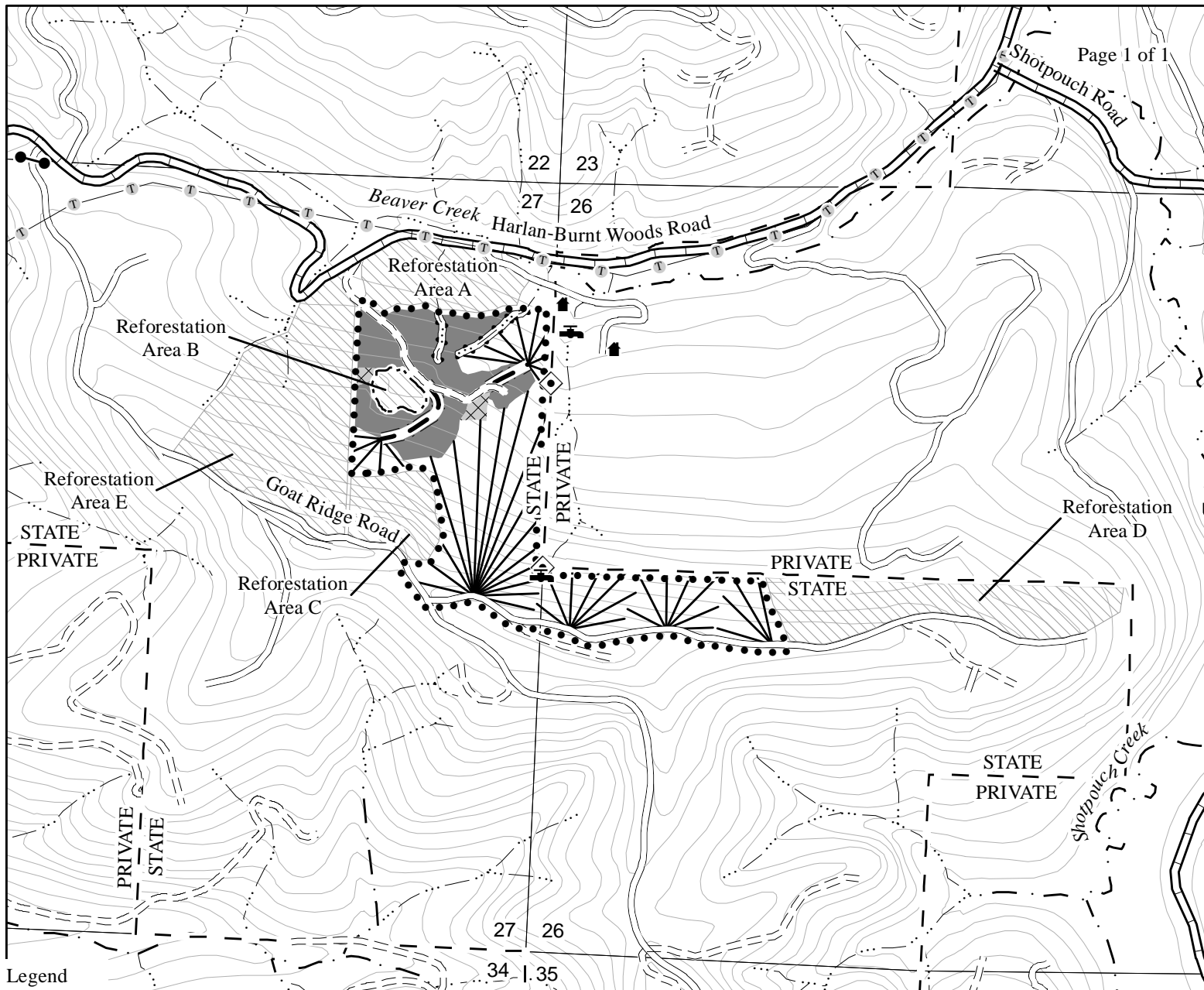
Species	Gross Cruise Volume	Cruised D & B	Cruised D & B (MBF)	Hidden D & B	Hidden D & B (MBF)	GTR (MBF)	Net Sale Volume
Douglas-fir	1361	3.6%	49	5%	68	5	1239
Red alder	11	16.4%	2	5%	1	--	9
Total	1372	3.7%	51	5%	67	5	1248

Species	DBH	Net Vol.	2-Saw	3-Saw	3-Saw 12”+	4-Saw	Camp Run
	Grade Percentages		40%	41%	0%	19%	--
Douglas-fir	16.2	1239	496	508	--	235	--
	Grade Percentages		--	--	--	--	100%
Red alder	20.6	8	--	--	--	--	8
	Grade Percentages		40%	41%	0%	18%	1%
Total	16.3	1247	496	508	--	235	8

TC PSTATS				PROJECT STATISTICS				PAGE	1				
				PROJECT		SWITCHUP		DATE	8/6/2015				
TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt				
11S	08E	26	2	ALL	58.00	33	196	1	W				
11S	08E	27	1	0ALL									
				TREES	ESTIMATED	PERCENT							
				TOTAL	SAMPLE								
				PER PLOT	TREES	TREES							
TOTAL				33	196	5.9							
CRUISE				12	74	6.2	7,703	1.0					
DBH COUNT													
REFOREST													
COUNT				21	122	5.8							
BLANKS													
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	
DF				70	131.0	16.2	62	46.8	188.6	23,475	22,624	6,603	6,603
R ALDER				4	1.8	20.6	31	0.9	4.1	182	152	63	63
TOTAL				74	132.8	16.3	62	47.7	192.7	23,657	22,776	6,666	6,666
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				
DF		105.8	12.6	174	199	224							
R ALDER		91.5	52.3	44	93	141							
TOTAL		107.1	12.4	169	194	218	458	114	51				
CL	68.1	COEFF		SAMPLE TREES - CF				# OF TREES REQ.		INF. POP.			
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15				
DF		87.1	10.4	51	57	63							
R ALDER		34.7	19.8	29	37	44							
TOTAL		86.9	10.1	51	56	62	301	75	33				
CL	68.1	COEFF		TREES/ACRE				# OF PLOTS REQ.		INF. POP.			
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15				
DF		30.5	5.3	124	131	138							
R ALDER		321.7	56.0	1	2	3							
TOTAL		30.9	5.4	126	133	140	38	10	4				
CL	68.1	COEFF		BASAL AREA/ACRE				# OF PLOTS REQ.		INF. POP.			
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15				
DF		29.5	5.1	179	189	198							
R ALDER		321.1	55.9	2	4	6							
TOTAL		26.3	4.6	184	193	202	28	7	3				
CL	68.1	COEFF		NET BF/ACRE				# OF PLOTS REQ.		INF. POP.			
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15				
DF		48.8	8.5	20,703	22,624	24,545							
R ALDER		373.3	64.9	53	152	251							
TOTAL		47.5	8.3	20,895	22,776	24,657	90	23	10				
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				
DF		44.5	7.7	6,092	6,603	7,114							
R ALDER		321.5	55.9	28	63	98							
TOTAL		42.6	7.4	6,171	6,666	7,160	73	18	8				

TC		PSTNDSUM		Stand Table Summary										Page		1	
														Date:		8/6/2015	
<div>T11S R08E S26 TyALL20.00</div> <div>T11S R08E S27 Ty0ALL38.00</div>				Project				SWITCHUP				Time:				9:15:09AM	
				Acres				58.00				Grown Year:					
S Sp	T	Tot			Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	T o t a l s				
		DBH	Sample Trees	FF 16'				Av Ht	Net Cu.Ft.				Net Bd.Ft.	Tons	Cunits	MBF	
DF		8	1	89	17	3.951	1.38	3.95	4.0	20.0	16	79	9	5			
DF		9	1	89	20	3.122	1.38	3.12	5.0	20.0	16	62	9	4			
DF		10	3	89	31	7.587	4.14	7.59	8.3	26.7	63	202	37	12			
DF		11	2	88	49	4.180	2.76	4.18	14.0	45.0	59	188	34	11			
DF		12	3	89	45	5.269	4.14	5.27	15.3	43.3	81	228	47	13			
DF		13	6	89	48	8.978	8.28	8.98	18.7	50.0	168	449	97	26			
DF		14	8	89	76	16.946	18.12	27.44	19.9	66.0	546	1,812	317	105			
DF		15	7	88	95	15.561	19.10	27.75	24.9	85.0	690	2,358	400	137			
DF		16	7	88	93	15.367	21.46	29.75	25.5	81.5	759	2,423	440	141			
DF		17	4	88	90	7.993	12.60	15.11	30.1	101.2	455	1,529	264	89			
DF		18	8	89	87	14.258	25.20	27.74	32.4	110.3	899	3,060	521	177			
DF		19	3	86	111	4.499	8.86	10.90	34.7	114.1	378	1,244	219	72			
DF		20	5	89	90	8.571	18.70	17.14	40.7	138.0	698	2,366	405	137			
DF		21	5	88	107	6.793	16.34	16.69	41.0	139.7	684	2,332	397	135			
DF		22	3	88	96	4.250	11.22	8.50	51.3	186.7	436	1,587	253	92			
DF		24	1	87	104	1.190	3.74	3.57	43.3	176.7	155	631	90	37			
DF		25	1	86	103	1.097	3.74	3.29	45.3	176.7	149	581	87	34			
DF		28	1	88	124	.875	3.74	2.62	67.0	276.7	176	726	102	42			
DF		36	1	84	127	.529	3.74	1.59	111.7	483.3	177	767	103	44			
DF		Totals	70	88	78	131.017	188.61	225.18	29.3	100.5	6,603	22,624	3,830	1,312			
RA		19	1	86	34	.525	1.03	.53	28.0	20.0	15	11	9	1			
RA		20	1	86	27	.474	1.03	.95	12.0	60.0	11	57	7	3			
RA		21	1	87	46	.430	1.03	.43	43.0	30.0	18	13	11	1			
RA		23	1	87	33	.359	1.03	.72	25.5	100.0	18	72	11	4			
RA		Totals	4	86	35	1.788	4.14	2.62	24.0	58.0	63	152	36	9			
Totals		74	88	77		132.805	192.74	227.80	29.3	100.0	6,666	22,776	3,866	1,321			

TC		PSPCSTGR		Species, Sort Grade - Board Foot Volumes (Project)																		
<div>T11S R08E S26 TyALL20.00</div> <div>T11S R08E S27 Ty0ALL38.00</div>		Project:		SWITCHUP												Page				1		
				Acres		58.00												Date				8/6/2015
																		Time				9:15:08AM
S So Gr		%	Bd. Ft. per Acre			Total	Percent of Net Board Foot Volume								Average Log				Logs			
Spp	T	rt ad	Net	Def%	Gross		Net	Net MBF	Log Scale Dia.				Log Length				Ln	Dia		Bd	CF/	Per
									4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99						
DF	2		40	2.2	9,366	9,157	531	88 12				100				40	14	274	1.77	33.4		
DF	3		41	3.5	9,619	9,281	538	100				13 87				38	9	119	0.91	77.9		
DF	4		19	6.8	4,489	4,186	243	100				13	31	30	26	28	6	37	0.48	113.9		
DF Totals			99	3.6	23,475	22,624	1,312	60 36 5				2	11	6	81	33	8	100	0.88	225.2		
RA CR			100	16.4	182	152	9	20 80				85	7	8		21	9	58	1.16	2.6		
RA Totals			1	16.4	182	152	9	20 80				85	7	8		21	9	58	1.16	2.6		
Totals				3.7	23,657	22,776	1,321	0 59 36 5				3	11	6	81	33	8	100	0.88	227.8		



Legend

Boundaries

- Timber Sale Boundary
- - - - Area Boundary (Posted)
- - - State Forest Property Boundary
- - - Right of Way (Posted)

Roads

- ==== County Road
- ==== Surfaced Road
- ==== Unsurfaced Road
- New Construction

Streams

- · · Type F Stream
- · · · Type N Stream
- Posted Stream Buffer
- ▨ Reforestation Area

Yarding Method

- ▨ Tractor Yarding Area
- Cable Corridors

- ⛑ Domestic Water Intake
- ⬢ Land Survey Monument
- ⌚ Electric Transmission Lines
- ▨ Green Tree Retention Area

LOGGING PLAN

OF TIMBER SALE CONTRACT NO. 341-16-60
SWITCH UP
PORTIONS OF SECTIONS 26 & 27, T11S, R8W, W.M.,
LINCOLN COUNTY, OREGON

NET ACRES CABLE = 43
NET ACRES TRACTOR = 15

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.

Scale

1:12,000



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Date: 09/09/2015