

District: Forest Grove

Timber Sale Appraisal Cedar Flats Sale 341-15-24

Date:

October 28, 2014

cost summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$2,186,359.56	\$0.00	\$2,186,359.56
		Project Work:	\$0.00
		Advertised Value:	\$2,186,359.56

10/28/14



District: **Forest Grove**

Timber Sale Appraisal **Cedar Flats** Sale 341-15-24

Date:

October 28, 2014

timber description

Location: Portions of Section 25, T2N, R6W, W.M. Washington County, and portions of Section 36, T2N, T6W, W.M., Tillamook County, Oregon.

Stand Stocking: 20%

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

Volume by Grade	2S	38	48	Total
Douglas - Fir	3,340	1,245	156	4,741
Total	3,340	1,245	156	4,741

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Timber Sale Appraisal Cedar Flats Sale 341-15-24

"STEWARDSHIP IN FORESTRY"

District: Forest Grove

Date: October 28, 2014

comments: Pond Values Used: 3rd Quarter Calendar Year 2014.

Western Hemlock and Other Conifers Stumpage Price = Pond Value minus Logging Cost:

\$360.21/MBF = \$535/MBF - \$174.79/MBF

Western redcedar and Other Cedars Stumpage Price = Pond Value minus Logging Cost:

\$965.21/MBF = \$1,140/MBF - \$174.79/MBF

Red Alder and Other Hardwoods Stumpage Price = Pond Value minus Logging Cost:

\$440.21/MBF = \$615/MBF - \$174.79/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: 4,741 MBF @ \$2/MBF = \$9,482

Non-Project New Road Construction: 35 Stations X \$200/Station = \$7,000

TOTAL Other Costs (with Profit & Risk to be added) = \$16,482

Other Costs (No Profit & Risk added):

Machine Time to Block/Waterbar Roads, and Skid Trails:

5 Hours @ \$150/Hr. = \$750

Equipment Cleaning: $3 \times \$1,000/\text{Piece} = \$3,000$

Machine Time to Pile Landing Slash and Sort Firewood:

15 hrs x \$150/hr= \$2,250

TOTAL Other Costs (No Profit & Risk added) = \$10,500

ROAD MAINTENANCE

Move-in: \$2,000

General Road Maintenance: 1.9 miles x \$1,000/mile = \$1,900

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TOTAL: \$3,900 / 4,741 MBF = \$0.82/MBF

10/28/14



Timber Sale Appraisal Cedar Flats Sale 341-15-24

District: **Forest Grove**

Date:

October 28, 2014

logging conditions

combination#: 1

Douglas - Fir

90.00%

yarding distance: Medium (800 ft)

downhill yarding:

logging system:

Track Skidder

No Process: Manual Falling/Delimbing

tree size:

Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF

bd. ft / load:

4,800

No

loads / day: cost / mbf:

\$89.59

machines:

Log Loader (B)

Track Skidder

combination#: 2

Douglas - Fir

10.00%

bd. ft / load:

yarding distance: Short (400 ft)

downhill yarding:

logging system:

Cable: Small Tower <=40

Process: Stroke Delimber

tree size:

Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF

loads / day:

5.0

4,800

cost / mbf:

\$118.09

machines:

Log Loader (A) Stroke Delimber (A)

Tower Yarder (Small)



Forest Grove

District:

Sale 341-15-24

Timber Sale Appraisal Cedar Flats

Date:

October 28, 2014

logging costs

Operating Seasons:

1.00

Profit Risk:

15.00%

Project Costs:

\$0.00

Other Costs (P/R):

\$16,482.00

Slash Disposal:

\$0.00

Other Costs:

\$10,500.00

Miles of Road

Road Maintenance:

\$0.82

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	4.8

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District: Forest Grove

Timber Sale Appraisal Cedar Flats Sale 341-15-24

Date:

October 28, 2014

logging costs breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
Douglas -	Fir								
\$92.44	\$0.84	\$0.92	\$48.04	\$3.48	\$21.86	\$0.00	\$5.00	\$2.21	\$174.79

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$635.95	\$461.16	\$0.00

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Timber Sale Appraisal Cedar Flats Sale 341-15-24

"STEWARDSHIP IN FORESTRY"

District: Forest Grove

Date:

October 28, 2014

summary

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	30.00	-		

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

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	4,741	\$461.16	\$2,186,359.56

Gross Timber Sale Value

Recovery:

\$2,186,359.56

Prepared by: Peter Stone

Phone: 503-359-7432

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TIMBER SALE SUMMARY Cedar Flats Contract No. 341-15-24

- **1.** <u>Location</u>: Portions of Sections 25, T2N, R6W, W.M., Washington County, and Portions of Section 36 T2N, R6W, W.M., Tillamook County, Oregon.
- **2. Type of Sale:** This timber sale is a 95 acre Modified Clearcut. The timber will be sold on a recovery basis at a sealed bid auction.
- **3.** Revenue Distribution: 100% BOF, 78% Tillamook County (Tax Code 56) and 22% Washington County.
- **4.** <u>Sale Acreage</u>: Acres are net of stream buffers and road prisms. Acreage was determined using ESRI ArcMap GIS software.
- **5.** <u>Cruise</u>: The Timber Sale was cruised by ODF Cruisers in September 2014. For more information see Cruise Report.
- **6.** <u>Timber Description</u>: The Timber Sale Area consists of a medium to well stocked 70 year old Douglas-fir stand. The average DBH for harvested Douglas-fir is 21 inches. The estimated average net per acre volume is 49.9 MBF.

7. Volume Summary

Timber Sale Area: MC (95 ACRES)

SPECIES		2 SAW	3 SAW	4 SAW	TOTAL
	Cruise				
	Volume	3,479	1,297	163	4,939
D 1 C	Hidden D&B				
Douglas-fir	(2%)	(139)	(52)	(7)	(198)
	NET TOTAL	3,340	1,245	156	4,741
	% of Total	70	26	3	

- **8.** Topography and Logging Method: Slopes within the sale areas range from 2% to 60% and are variable in aspect. The Timber Sale Area is 89% ground-based yarding, and 11% cable-based yarding. The average horizontal cable yarding distance is approximately 500 feet and the maximum is approximately 1000 feet. The average horizontal tractor yarding distance is approximately 400 feet and the maximum is approximately 800 feet
- **9.** <u>Access</u>: From Forest Grove travel northwest 7 miles on Highway 8 to its junction with Highway 6 and turn left. Continue west on Highway 6 for 9.5 miles to Beaverdam Road and turn left. Proceed ¾ mile to the southern tip of the Timber Sale Area.

CRUISE REPORT Cedar Flats 341-15-24

1. LOCATION: Portions of Sections 25, T2N, R6W, W.M., Washington County, and Portions of Section 36, T2N, R6W, W.M., Tillamook County, Oregon.

2. CRUISE DESIGN:

Clearcut: The cruise design assumed a Coefficient of Variation (CV) of 50%, an average stand diameter of 17 inches and a desired sampling error (SE) of 9%. Pre-cruise plots indicated that approximately 6 trees per plot could be realized with a 40 BAF prism.

3. SAMPLING METHOD:

The Sale Area was cruised in September 2014 with 37 variable radius grade and count plots using a 40 BAF prism. Plots were laid out on a 4 chain x 6 chain grid. Plots falling on or near existing roads or no-harvest areas were offset 1 chain.

4. CRUISE RESULTS

109 trees were measured and graded producing a cumulative Douglas-fir Basal Area and Board Foot Volume SE of 5.8%.

5. TREE MEASUREMENT AND GRADING:

All trees assigned a 'Take' status were measured and graded following Columbia River Log Scale grade rules and favoring 40 foot segments.

- a) **Height Standards:** Bole heights were measured to the nearest foot of the total height.
- 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.

5. DATA PROCESSING

- a) **Volumes and Statistics**, Cruise volume estimates, and sampling statistics, were derived from 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.
- **6. Cruisers:** The sale was cruised by ODF cruisers (Stone, Savage).

Prepared by:	Peter Stone	9/10/2014	
	ODF Forester	Date	
Reviewed by:	Erik Marcy	9/10/2014	
•	Unit Forester	Date	

TC PLOGSTVB		Log Stock	x Table - MBF		
T02N R06W S36 Ty00MC	95.00	Project: Acres	CEDAR 95.00	Page Date Time	1 9/9/2014 8:26:27AM
S C C I C	D. C	 0/	NAVI I G P D' 4 ' I I		

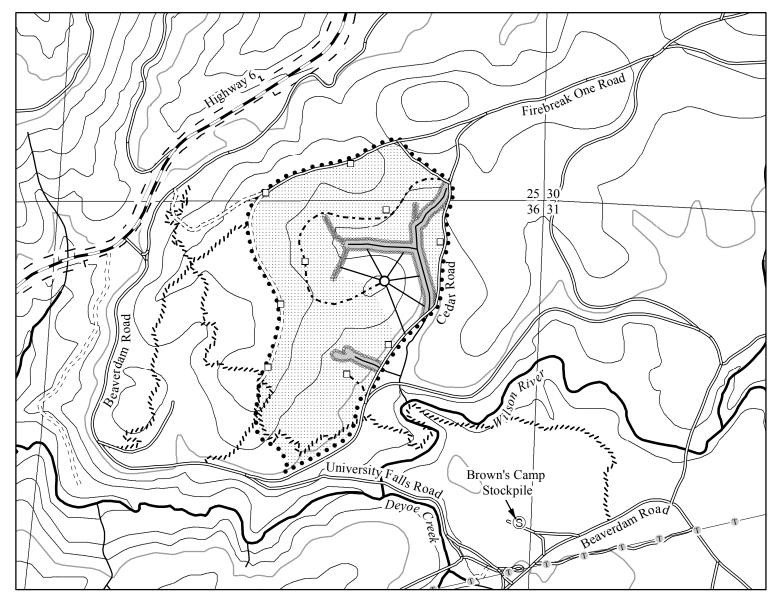
s	So Gr	Log	Gross	Def Net	%		ı	let Volun	ne by S	caling I	iamete	r in Inch	es				
Spp T	rt de	Len	MBF	% MBF	Spc	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
DF	2N	1 24	21	2	.4							21					
DF	2M	1 37	34	3	.7									34			
DF	2N	1 40	3,449	3,42	69.3						642	1064	1212	339	167		
DF	3N	1 16	15	1	.3								15				
DF	3N	1 26	2		2 .0				2								
DF	3N	1 28	3		.1			3									
DF	3N	1 32	38	3.3	.7			17	20								
DF	3N	1 34	177	2.1 17	3.5			88	49	36							
DF	3N	1 36	13	1	.3			13									
DF	3N	1 40	1,056	1,05	21.3			150	314	577	14						
DF	4N	1 16	50	5	1.0			50									
DF	4N	1 18	2		.0			2									
DF	4N	1 20	33	3	.7			32	1								
DF	4N	1 22	3		.1			3									
DF	4M	1 24	24	2	.5			24									
DF	4M	1 28	21	2	.4			21									
DF	4N	1 30	26	2	5 .5			26									
DF	4M	1 32	4		.1			4									
DF	Total	s	4,970	4,93	3 100.0			431	386	613	655	1086	1227	373	167		
Total	All Specie	es	4,970	4,93	100.0			431	386	613	655	1086	1227	373	167		

TC PS	гатѕ					OJECT OJECT	STATIS CED				PAGE DATE	1 9/9/2014
ГWР	RGE	SC	TRACT	<u></u>	ГҮРЕ		AC	RES	PLOTS	TREES	CuFt	BdFt
02N	06	36	TAKE	(00MC			95.00	37	237	S	W
						TREES		ESTIMATED TOTAL		PERCENT SAMPLE		
			PLOTS	TREES		PER PLOT		TREES		TREES		
TOT	AL		37	237		6.4						
	COUNT		19	109		5.7		10,631		1.0		
COU BLA	NKS		18	128		7.1						
					STA	ND SUMM	ARY					
			AMPLE TREES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
DOU	G FIR-T		109	111.9	20.5	125	56.6	256.2	52,315	51,977	11,435	11,435
тот	AL	E LIM	109 <i>109</i> IITS OF THI	111.9	20.5 20.5	125 125	56.6 56.6	256.2 256.2	52,315 52,315	51,977 51,977	11,435 11,435	11,435 11,435
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CON	AL IFIDENC		109 IITS OF THE TIMES OUT	111.9 E SAMPLE	VOLUME	125 WILL BE V	56.6 WITHIN TI	256.2 HE SAMPLE E	52,315 RROR	51,977	11,435	11,435
CON CL SD:	68.1 1.0 G FIR-T		109 IITS OF THE TIMES OUT COEFF VAR.% 56.8	111.9 E SAMPLE T OF 100 THE S.E.% 5.4	VOLUME	SAMPLE DW 595	56.6 WITHIN THE TREES -	256.2 HE SAMPLE E BF HIGH 664	52,315 RROR	51,977 F OF TREES R 5	11,435 EQ.	11,435 INF. POP.
CON CL SD:	68.1 1.0 G FIR-T		109 IITS OF THE TIMES OUT COEFF VAR.%	111.9 E SAMPLE T OF 100 THE S.E.%	VOLUME	WILL BE V SAMPLE OW	56.6 WITHIN TI E TREES - AVG	256.2 HE SAMPLE E BF HIGH	52,315 RROR	51,977 OF TREES R	11,435 EQ.	11,435 INF. POP.
CON CL SD:	68.1 1.0 G FIR-T		109 IITS OF THE TIMES OUT COEFF VAR.% 56.8	111.9 E SAMPLE T OF 100 THE S.E.% 5.4	VOLUME	SAMPLE DW 595	56.6 WITHIN THE TREES - AVG 630 630	256.2 HE SAMPLE E BF HIGH 664	52,315 RROR	51,977 F OF TREES R 5	11,435 EQ. 10	11,435 INF. POP.
CCL SD: CL SD: CL SD:	68.1 1.0 G FIR-T AL 68.1 1.0		109 IITS OF THE TIMES OUT COEFF VAR.% 56.8 56.8 COEFF VAR.%	111.9 E SAMPLE T OF 100 THE S.E.% 5.4 5.4 S.E.%	VOLUME	SAMPLED SPECIAL SPECIA	56.6 WITHIN TI E TREES - AVG 630 630 ACRE AVG	256.2 HE SAMPLE E BF HIGH 664 664 HIGH	52,315 RROR	51,977 FOF TREES R 5	11,435 EQ. 10	11,435 INF. POP.
CL SD: CL SD: DOU	68.1 1.0 G FIR-T AL 68.1 1.0 G FIR-T		109 IITS OF THE TIMES OUT COEFF VAR.% 56.8 56.8 COEFF VAR.% 52.7	111.9 E SAMPLE T OF 100 THE S.E.% 5.4 5.4 S.E.% 8.7	VOLUME	### 125 WILL BE V SAMPLE OW 595 595 TREES/ OW 102	56.6 WITHIN TI E TREES - AVG 630 630 ACRE AVG 112	256.2 HE SAMPLE E BF HIGH 664 664 HIGH 122	52,315 RROR	51,977 FOR TREES R 5 129 FOR PLOTS R 5	EQ. 10 32 EQ. 10	11,435 INF. POP.
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TC	PSTNDSUM		Stand Table	e Summary	Page Date:	1 9/9/2014
T02	N R06W S36 Ty00MC	95.00	Project	CEDAR	Time:	8:26:29AM
			Acres	95.00	Grown Year:	

S Spc T	DBH	Sample Trees	FF 16'	Tot Av Ht	Trees/ Acre	BA/ Acre	Logs Acre	Average Net Cu.Ft.	Log Net Bd.Ft.	Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Tons	Totals Cunits	MBF
DF	10	1	92	100	4.310	2.35	4.31	14.2	70.0	1.74	61	302	165	58	29
DF	11	2	88	98	7.124	4.70	14.25	9.4	42.5	3.81	134	606	362	127	58
DF	14	4	89	112	8.795	9.40	17.59	19.9	91.2	9.98	350	1,605	948	333	152
DF	15	5	88	117	9.577	11.75	21.07	21.9	100.0	13.14	461	2,107	1,248	438	200
DF	16	2	89	124	3.367	4.70	8.42	23.4	106.0	5.62	197	892	534	187	85
DF	17	4	89	127	5.965	9.40	17.90	23.1	100.0	11.77	413	1,790	1,119	392	170
DF	18	4	89	126	5.321	9.40	15.96	25.6	106.7	11.66	409	1,703	1,108	389	162
DF	19	4	87	117	4.775	9.40	11.94	32.2	133.0	10.96	385	1,588	1,041	365	151
DF	20	11	87	127	11.852	25.86	34.48	32.7	140.0	32.14	1,128	4,827	3,053	1,071	459
DF	21	10	88	125	9.773	23.51	29.32	35.0	156.7	29.28	1,027	4,593	2,781	976	436
DF	22	13	88	133	11.576	30.56	34.73	40.6	187.4	40.22	1,411	6,509	3,821	1,341	618
DF	23	5	87	133	4.073	11.75	12.22	44.8	202.7	15.59	547	2,477	1,481	520	235
DF	24	11	87	135	8.230	25.86	23.94	50.5	228.8	34.49	1,210	5,477	3,276	1,150	520
DF	25	2	90	141	1.379	4.70	4.14	58.5	286.7	6.89	242	1,186	655	230	113
DF	26	6	88	144	3.825	14.10	12.11	58.0	278.9	20.03	703	3,379	1,903	668	321
DF	27	4	88	141	2.365	9.40	7.09	64.6	304.2	13.05	458	2,158	1,240	435	205
DF	28	8	87	136	4.398	18.80	13.19	67.0	315.0	25.21	884	4,156	2,395	840	395
DF	29	2	86	131	1.025	4.70	3.07	69.6	310.0	6.10	214	953	580	203	91
DF	30	2	88	133	.958	4.70	2.87	78.9	390.0	6.46	227	1,121	614	215	106
DF	31	2	86	142	.897	4.70	2.69	86.1	416.7	6.60	232	1,121	627	220	107
DF	33	1	84	132	.396	2.35	1.19	91.0	416.7	3.08	108	495	293	103	47
DF	36	4	82	134	1.330	9.40	3.99	106.6	475.0	12.12	425	1,895	1,151	404	180
DF	38	2	85	130	.597	4.70	1.79	116.7	580.0	5.95	209	1,039	566	198	99
DF	Totals	109	88	125	111.908	256.22	298.26	38.3	174.3	325.89	11,435	51,977	30,959	10,863	4,938
Totals		109	88	125	111.908	256.22	298.26	38.3	174.3	325.89	11,435	51,977	30,959	10,863	4,938

TC	PSPCSTGR		Sı	pecies, S	ort Gra	de - Board Fo	oot Vo	lume	es (Pr	oject)								
T02N R06W S36 Ty00MC 95.00				95.00		Project: Acres									Page 1 Date 9/9/2014 Time 8:26:28				
		%					Percer	nt of N	let Boar	d Foot	Volume					Avera	ige Log	3	Logs
	S So Gr	Net	Bd. Ft.	. per Acre		Total		Log Scale Dia. Log Length				Ln	Dia	Bd	CF/	Per			
Spp	T rt ad	BdFt	Def%	Gross	Net	Net MBF	4-5	5-11	12-16	17+	12-20	21-30	31-35	36-99	Ft	In	Ft	Lf	/Acre
DF	CU														5	20		0.00	5.7
DF	2M	70	.7	36,885	36,618	3,479			60	40		1		99	40	15	364	1.89	100.7
DF	3M	26	.5	13,719	13,648	1,297		98	1	1	1	0	16	82	38	8	106	0.67	129.3
DF	4M	4		1,711	1,711	163		100			52	46	2		21	6	25	0.37	68.2
DF	Totals	100	.6	52,315	51,977	4,938		29	42	29	2	2	4	92	34	10	171	1.10	303.9
Tota	ıls		0.6	52,315	51,977	4,938		29	42	29	2	2	4	92	34	10	171	1.10	303.9



Legend

- • • Timber Sale Boundary
- Highway
- Surfaced Road
- ==== Unsurfaced Road
- --- Non-Project Road
- Type F Stream
- Type N Stream
- Stream Buffer
- Posted Stream Buffer
 - O Cable Landing
 - □ Tractor Landing
- Tractor Yarding Area
- Cable Yarding Area
- """ Recreation Trail
- S Rock Stockpile
- ___ ODF Ownership Boundary
- Sections
- T Electric Transmission Lines

LOGGING PLAN

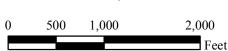
FOR TIMBER SALE CONTRACT # 341-15-24 CEDAR FLATS

PORTIONS OF SECTIONS 25, T2N, R6W, W.M. WASHINGTON COUNTY, OREGON AND PORTIONS OF SECTION 36 T2N, T6W, W.M. TILLAMOOK COUNTY, OREGON

Forest Grove District GIS September, 2014

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

1:12,000 1 inch = 1,000 feet





APPROXIMATE NET ACRES
TRACTOR CABLE

85 10