



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Ground Round
Sale FG-341-2018-18-

District: Forest Grove

Date: September 26, 2017

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$1,055,914.32	\$20,376.40	\$1,076,290.72
		Project Work:	\$0.00
		Advertised Value:	\$1,076,290.72



Timber Sale Appraisal Ground Round Sale FG-341-2018-18-

District: Forest Grove

Date: September 26, 2017

Timber Description

Location: Portions of Section 36, T3N, R6W, W.M., and portions of Section 31, T3N, R5W, W.M.,

Stand Stocking: 20%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	24	0	98
Western Hemlock / Fir	15	0	97
Alder (Red)	15	0	95

Volume by Grade	2S	3S	4S	Camprun	Total
Douglas - Fir	1,500	466	38	0	2,004
Western Hemlock / Fir	0	16	2	0	18
Alder (Red)	0	0	0	55	55
Total	1,500	482	40	55	2,077

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

Western redcedar and Other Cedars Stumpage Price = Pond Value minus Logging Cost:
 $\$1,309.15/\text{MBF} = \$1,520.78/\text{MBF} - \$211.63/\text{MBF}$

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):

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

20 hours x \$150/hour = \$3,000

Machine Time to Pile Landing Slash and Sort Firewood:

10 hours x \$150/hour = \$1,500

Equipment Cleaning: 2 x \$1,000/Piece = \$2,000

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

TOTAL Other Costs (No Profit & Risk added) = \$11,500

ROAD MAINTENANCE

Move-in: \$4,000

General Road Maintenance: 2.9 miles x \$1,200/mile = \$3,480

TOTAL Road Maintenance: \$7,480/2,077 MBF = \$3.60/MBF



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Logging Conditions

Combination#: 1	Douglas - Fir	100.00%
	Western Hemlock / Fir	100.00%
	Alder (Red)	100.00%
Logging System:	Shovel	Process: Stroke Delimber
yarding distance:	Medium (800 ft)	downhill yarding: No
tree size:	Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF	
loads / day:	8	bd. ft / load: 4378
cost / mbf:	\$90.57	
machines:	Stroke Delimber (B)	



Timber Sale Appraisal
Ground Round
Sale FG-341-2018-18-

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Logging Costs

Operating Seasons: 1.00	Profit Risk: 10%
Project Costs: \$0.00	Other Costs (P/R): \$0.00
Slash Disposal: \$0.00	Other Costs: \$11,500.00

Miles of Road

Road Maintenance: \$3.60

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	4.7
Western Hemlock / Fir	\$0.00	2.0	3.6
Alder (Red)	\$0.00	2.0	2.8



"STEWARDSHIP IN FORESTRY"

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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
Douglas - Fir									
\$90.57	\$3.67	\$2.11	\$84.64	\$0.00	\$18.10	\$0.00	\$7.00	\$5.54	\$211.63
Western Hemlock / Fir									
\$90.57	\$3.71	\$2.11	\$111.58	\$0.00	\$20.80	\$0.00	\$7.00	\$5.54	\$241.31
Alder (Red)									
\$90.57	\$3.78	\$2.11	\$146.25	\$0.00	\$24.27	\$0.00	\$7.00	\$5.54	\$279.52

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$735.27	\$523.64	\$0.00
Western Hemlock / Fir	\$0.00	\$604.63	\$363.32	\$0.00
Alder (Red)	\$0.00	\$650.00	\$370.48	\$0.00



Timber Sale Appraisal
Ground Round
Sale FG-341-2018-18-

District: Forest Grove

Date: September 26, 2017

Summary

Amortized

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

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	2,004	\$523.64	\$1,049,374.56
Western Hemlock / Fir	18	\$363.32	\$6,539.76
Alder (Red)	55	\$370.48	\$20,376.40

Gross Timber Sale Value

Recovery: \$1,076,290.72

Prepared By: Eric Foucht

Phone: 503-359-7473

TIMBER SALE SUMMARY
Ground Round
Contract No. 341-18-18

1. **Location:** Portions of Section 36, T3N, R6W, W.M., and of Section 31, T3N, R5W, W.M., Washington County, Oregon.
2. **Type of Sale:** This timber sale is 42 net acres of 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 August of 2017. For more information see Cruise Report.
6. **Timber Description:** The Timber Sale Area consists of a well-stocked 76 year old Douglas-fir stand with minor amounts of western hemlock and red alder. The stand has an average of 224 ft² of basal area (all species), an average Douglas-fir DBH of 24 inches, and an estimated average net Douglas-fir volume of approximately 47.7 MBF per acre.

7. Volume Summary

SPECIES		2 SAW	3 SAW	4 SAW	CR	TOTAL
Douglas-fir	Cruise Volume	1,531	476	39		2,046
	Hidden D&B (2%)	(31)	(10)	(1)		(42)
	NET TOTAL	1,500	466	38		2,004
	% of Total	75	23	2		
Western hemlock	Cruise Volume	0	16	2		18
	Hidden D&B (2%)	()	()	()		()
	NET TOTAL	0	16	2		18
	% of Total	0	89	11		
Red alder	Cruise Volume	0	0	0	56	56
	Hidden D&B (2%)	()	()	()	(1)	(1)
	NET TOTAL	0	0	0	55	55
	% of Total	0	0	0	100	
TOTAL		1500	482	40	55	2077

8. **Topography and Logging Method:** Slopes within the sale areas range from 5% to 45%, but are generally less than 35%, and northeast in aspect. The timber sale is 100% ground-based yarding. The average horizontal skid trail length is approximately 940 feet and the maximum is approximately 1,250 feet.
9. **Access:** All access to the Timber Sale Area is on surfaced all-weather roads. From Forest Grove, travel north on Highway 8 to its junction with Highway 6. Turn left and travel west approximately 3.5 miles to Timber Road. Turn right, proceed north on Timber Road approximately 6.5 miles and turn onto Cochran Road. Continue west on Cochran Road for 3.8 miles to Round Top Road. Turn onto Round Top Road and continue for 0.6 miles to the northernmost point of the Timber Sale Area.
10. **Projects:** None

CRUISE REPORT
Ground Round
341-18-18

1. LOCATION: Portions of Section 36, T3N, R6W, W.M., and of Section 31, T3N, R5W, W.M., Washington County, Oregon.

2. CRUISE DESIGN:

Pre-cruise evaluation indicated that the stand's average DBH is approximately 20 inches and the coefficient of variation is about 75%. For sales of this size and approximate value, ODF cruise standards require a sampling error of 11% at a 68% confidence level, and a minimum sample size of 100 graded trees. The cruise design chosen for this sale is a variable radius sample plot using a 40 BAF prism. The plot density for this cruise was higher than normal in order to provide an adequate sample size for a stand with a high CV%.

3. SAMPLING METHOD:

The Timber Sale Area was sampled in August, 2017 with 25 variable radius grade plots using a 40 BAF prism. Plots were laid out on a 4 chain x 3 chain grid. Plots falling on or near existing roads or no-harvest areas were offset 1 chain

4. CRUISE RESULTS

140 trees were measured and graded producing a cumulative Sampling Error of 8.8% on the Douglas-fir basal area and 8.5% 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 favored 40 foot segments.

a) **Height Standards:**

Total tree heights were measured to the nearest foot. Bole heights were calculated to a top DIB of six inches or 25% of DBH, whichever is larger.

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 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 Mark Savage and Kenton Burns.

Prepared by:

ODF Forester

Date

Reviewed by:

Eric Foucht

Date

TC PSTATS			PROJECT STATISTICS						PAGE	1	
			PROJECT		GRONDFIN		DATE 8/28/2017				
TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt	
T3N	R6	36	00A1	00MC		42.00	25	140	S	W	
			PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES				
TOTAL			25	140	5.6						
CRUISE			25	140	5.6	3,523	4.0				
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			127	67.1	23.6	140	41.9	203.2	49,833	48,715	10,219
R ALDER			11	14.0	15.2	101	4.5	17.6	1,342	1,331	437
WHEMLOCK			2	2.8	14.6	113	0.8	3.2	452	435	111
TOTAL			140	83.9	22.1	132	47.6	224.0	51,627	50,480	10,768
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		
DOUG FIR			50.7	4.5	971	1,017	1,063				
R ALDER			36.9	11.7	92	104	116				
WHEMLOCK			52.5	49.2	89	175	261				
TOTAL			59.7	5.0	886	933	980		142	36	
CL	68.1	COEFF	SAMPLE TREES - CF					# OF TREES REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5 10		15		
DOUG FIR			46.2	4.1	201	210	218				
R ALDER			39.1	12.4	30	34	38				
WHEMLOCK			53.7	50.3	22	45	67				
TOTAL			54.4	4.6	185	193	202		118	30	
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			68.5	14.0	58	67	77				
R ALDER			211.4	43.1	8	14	20				
WHEMLOCK			358.8	73.2	1	3	5				
TOTAL			51.9	10.6	75	84	93		112	28	
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			43.2	8.8	185	203	221				
R ALDER			208.3	42.5	10	18	25				
WHEMLOCK			346.1	70.6	1	3	5				
TOTAL			33.8	6.9	209	224	239		48	12	
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			41.5	8.5	44,593	48,715	52,837				
R ALDER			219.5	44.8	735	1,331	1,926				
WHEMLOCK			348.9	71.1	125	435	744				
TOTAL			37.5	7.6	46,623	50,480	54,337		58	15	
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			41.6	8.5	9,352	10,219	11,087				
R ALDER			220.3	44.9	241	437	634				

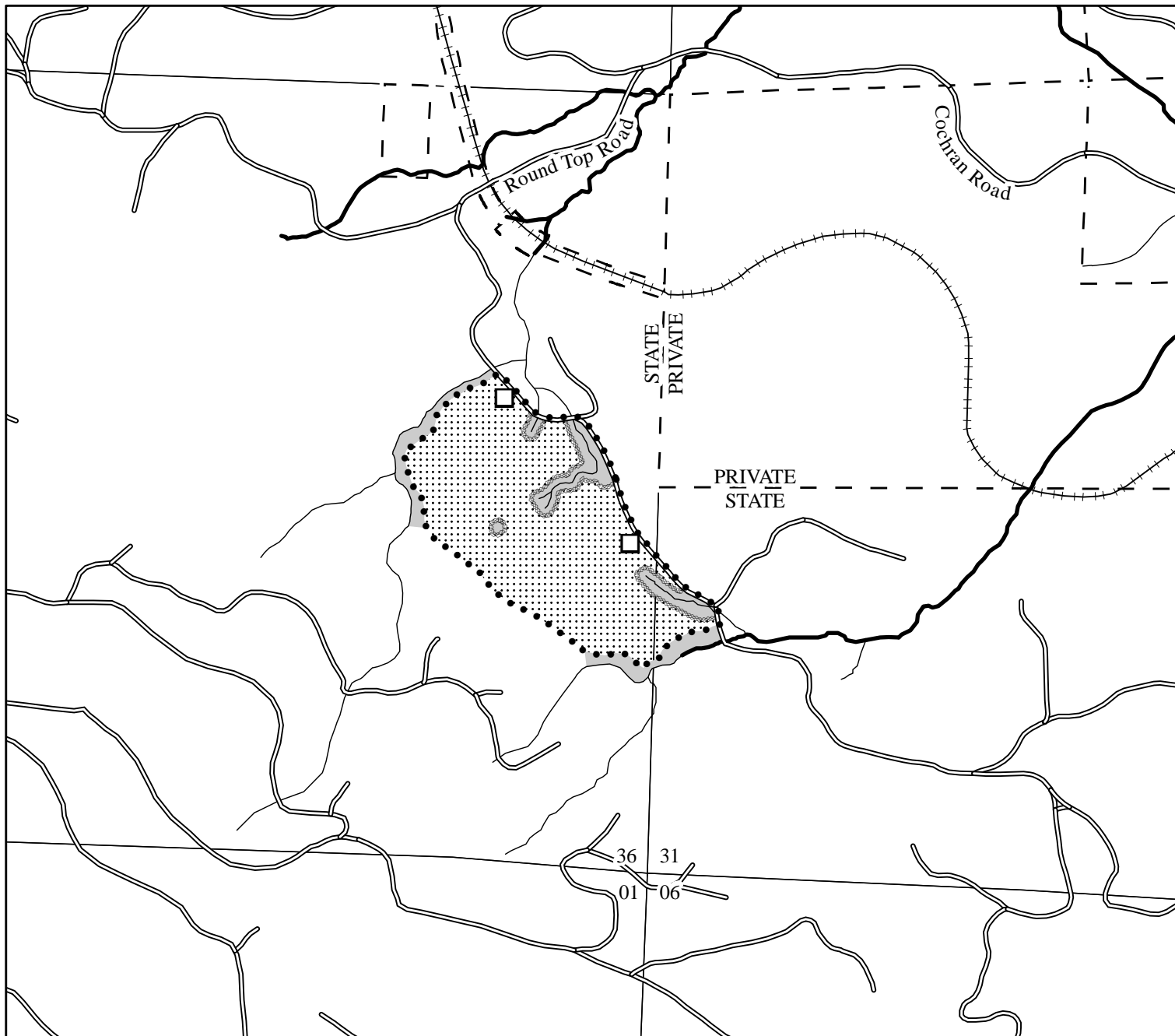
TC PSTATS				PROJECT STATISTICS				PAGE 2	
				PROJECT		GRONDFIN		DATE	8/28/2017
TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt
T3N	R6	36	00A1	00MC		42.00	25	140	S
CL	68.1	COEFF		NET CUFT FT/ACRE			# OF PLOTS REQ.		INF. POP.
SD:	1.00	VAR.	S.E.%	LOW	AVG	HIGH	5	10	15
WHEMLOCK		349.3	71.2	32	111	190			
TOTAL		35.8	7.3	9,980	10,768	11,555	53	13	6

TC		PSPCSTGR		Species, Sort Grade - Board Foot Volumes (Project)																	
<div>TT3N RR6W S36 Ty00MC42.00</div>				Project:		GRONDFIN										Page		1			
				Acres		42.00										Date		8/28/2017			
																Time		3:00:23PM			
S Spp	So T	Gr rt	ad	% Net BdFt	Bd. Ft. per Acre Def%GrossNet			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															8	22		0.00	.9
DF		2M		74	2.7	37,476	36,453	1,531			30	70	1	0		99	40	17	493	2.44	73.9
DF		3M		24	.8	11,424	11,329	476		65	31	4		4	10	87	38	9	124	0.81	91.6
DF		4M		2		933	933	39		100			62	33	5		16	6	21	0.34	45.4
DF	Totals			97	2.2	49,833	48,715	2,046		17	29	54	2	2	2	94	34	11	230	1.43	211.9
RA		CU															18	8		0.00	14.2
RA		4M		3		46	46	2		100			100				18	9	40	0.49	1.1
RA		R		97	.9	1,296	1,285	54		100			13	39	9	39	27	9	68	0.86	18.8
RA	Totals			3	.9	1,342	1,331	56		100			16	37	9	37	23	8	39	0.56	34.2
WH		CU															6	11		0.00	1.7
WH		3M		88	4.3	400	382	16		100					100		40	8	102	0.65	3.8
WH		4M		12		52	52	2		100				100			28	6	30	0.27	1.7
WH	Totals			1	3.8	452	435	18		100				12	88		29	8	60	0.53	7.2
Totals					2.2	51,627	50,480	2,120		20	28	52	2	3	3	92	32	11	199	1.32	253.3

TC PLOGSTVB		Log Stock Table - MBF																	
TT3N RR6W S36 Ty00MC 42.00					Project: GRONDFIN Acres 42.00										Page 1 Date 8/28/2017 Time 3:00:24PM				
Spp	S T	So rt	Gr 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
DF		2M	14		5		5	.2									5		
DF		2M	20		11	8.4	10	.5							5		5		
DF		2M	30		9	21.1	7	.4									7		
DF		2M	40		1,549	2.6	1,509	73.8						80	183	626	461	159	
DF		3M	22		1		1	.1					1						
DF		3M	26		3		3	.2					1	2					
DF		3M	28		2		2	.1				2							
DF		3M	30		12	1.7	11	.6				7	5						
DF		3M	32		21		21	1.0			12	3	7						
DF		3M	34		25		25	1.2			8	8	9						
DF		3M	36		23		23	1.1			4	11	6	2					
DF		3M	38		25		25	1.2			11	9	4	1					
DF		3M	40		367		364	17.8			32	70	99	119	15	20	9		
DF		4M	12		14		14	.7			12	3							
DF		4M	14		4		4	.2			3	1							
DF		4M	16		1		1	.1			1	1							
DF		4M	18		3		3	.1			3	0							
DF		4M	20		2		2	.1			2								
DF		4M	22		2		2	.1			1	1							
DF		4M	23		2		2	.1			2								
DF		4M	24		2		2	.1			2	0							
DF		4M	26		1		1	.0			1								
DF		4M	28		2		2	.1			2								
DF		4M	30		3		3	.1			3								
DF		4M	31		2		2	.1			2								
DF		Totals			2,093	2.2	2,046	96.5			101	116	130	204	198	650	483	163	
RA		4M	18		2		2	3.4			2								
RA		R	14		2		2	3.4					2						
RA		R	16		5		5	9.4			2		3						
RA		R	21		1		1	2.3			1								
RA		R	24		7		7	12.3				3	4						
RA		R	25		4		4	6.8					4						
RA		R	26		9		9	16.1			5	4							
RA		R	32		5		5	8.8				5							
RA		R	36		5		5	8.6				5							
RA		R	40		17	2.9	16	28.8				10	6						

TC		PLOGSTVB																		Log Stock Table - MBF									
TT3N RR6W S36 Ty00MC				42.00		Project: GRONDFIN										Page 2													
						Acres 42.00										Date 8/28/2017													
																Time 3:00:24PM													
Spp	S T	So rt	Gr 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+									
RA		Totals			56		56	2.6			9	28	19																
WH		3M	40		17	4.3	16	88.0			3	6	8																
WH		4M	28		2		2	12.0			2																		
WH		Totals			19	3.8	18	.9			5	6	8																
Total		All Species			2,168	2.2	2,120	100.0			114	150	157	204	198	650	483	163											

TC		PSTNDSUM		Stand Table Summary									Page		1	
													Date:		8/28/2017	
TT3N RR6W S36 Ty00MC 42.00				Project					GRONDFIN				Time:		3:00:22PM	
				Acres					42.00				Grown Year:			
S SpC T				Tot			Average Log			Net			Totals			
	DBH	Sample Trees	FF 16'	Av Ht	Trees/ Acre	BA/ Acre	Logs Acre	Net Cu.Ft.	Net Bd.Ft.	Tons/ Acre	Cu.Ft. Acre	Bd.Ft. Acre	Tons	Cunits	MBF	
DF	10	1	87	89	2.934	1.60	5.87	7.1	35.0	1.18	41	205	50	17	9	
DF	11	1	81	108	2.424	1.60	4.85	10.9	45.0	1.51	53	218	63	22	9	
DF	13	2	85	118	3.472	3.20	6.94	16.5	70.0	3.27	115	486	137	48	20	
DF	14	3	85	108	4.490	4.80	8.98	19.0	75.0	4.87	171	674	204	72	28	
DF	15	2	89	126	2.608	3.20	6.52	21.2	98.0	3.94	138	639	166	58	27	
DF	16	2	87	115	2.292	3.20	5.73	21.2	90.0	3.47	122	516	146	51	22	
DF	17	2	89	138	2.030	3.20	6.09	24.1	105.0	4.18	147	639	175	62	27	
DF	18	1	88	137	.905	1.60	2.72	28.2	120.0	2.18	77	326	92	32	14	
DF	19	1	88	114	.813	1.60	1.63	38.8	155.0	1.80	63	252	75	26	11	
DF	20	3	88	132	2.200	4.80	6.60	32.4	143.3	6.09	214	946	256	90	40	
DF	21	5	87	144	3.326	8.00	9.98	39.2	176.0	11.16	392	1,756	469	164	74	
DF	22	11	89	147	6.667	17.60	22.43	40.2	184.9	25.67	901	4,146	1,078	378	174	
DF	23	3	89	158	1.664	4.80	6.10	42.4	203.6	7.38	259	1,242	310	109	52	
DF	24	7	88	149	3.565	11.20	11.71	49.6	229.1	16.55	581	2,684	695	244	113	
DF	25	7	86	151	3.286	11.20	11.73	47.6	217.6	15.92	558	2,553	668	235	107	
DF	26	7	86	151	3.038	11.20	10.85	53.0	249.6	16.38	575	2,708	688	241	114	
DF	27	7	86	154	2.817	11.20	10.46	55.8	268.5	16.63	583	2,809	698	245	118	
DF	28	4	86	158	1.497	6.40	5.99	57.5	281.9	9.82	344	1,688	412	145	71	
DF	29	17	86	156	5.930	27.20	23.37	61.1	300.1	40.67	1,427	7,015	1,708	599	295	
DF	30	7	85	160	2.282	11.20	8.80	67.4	328.5	16.91	593	2,891	710	249	121	
DF	31	6	85	156	1.832	9.60	7.02	69.9	350.0	13.99	491	2,457	587	206	103	
DF	32	7	85	159	2.005	11.20	7.73	78.0	395.6	17.20	604	3,060	722	253	129	
DF	33	3	86	151	.808	4.80	3.23	72.2	377.5	6.65	233	1,220	279	98	51	
DF	34	8	83	162	2.030	12.80	7.11	94.9	440.4	19.22	674	3,129	807	283	131	
DF	35	4	84	168	.958	6.40	3.83	92.0	470.6	10.04	352	1,803	422	148	76	
DF	36	3	87	157	.679	4.80	2.49	103.4	530.0	7.34	257	1,320	308	108	55	
DF	38	2	85	163	.406	3.20	1.42	120.7	652.9	4.89	172	928	205	72	39	
DF	39	1	81	160	.193	1.60	.77	107.3	525.0	2.36	83	405	99	35	17	
DF	Totals	127	86	140	67.149	203.20	210.95	48.4	230.9	291.25	10,219	48,715	12,232	4,292	2,046	
RA	12	1	73	101	2.037	1.60	2.04	15.5	40.0	.87	31	81	36	13	3	
RA	13	1	74	108	1.736	1.60	1.74	18.4	50.0	.88	32	87	37	13	4	
RA	14	1	74	95	1.497	1.60	2.99	9.3	35.0	.76	28	105	32	12	4	
RA	15	1	73	113	1.304	1.60	1.30	29.4	90.0	1.05	38	117	44	16	5	
RA	16	4	73	103	4.584	6.40	8.02	22.5	70.0	4.97	181	561	209	76	24	
RA	17	1	74	94	1.015	1.60	2.03	27.8	75.0	1.55	56	152	65	24	6	
RA	18	2	73	89	1.811	3.20	1.81	39.0	125.0	1.94	71	226	82	30	10	
RA	Totals	11	73	101	13.983	17.60	19.93	21.9	66.8	12.03	437	1,331	505	184	56	
WH	13	1	85	113	1.736	1.60	3.47	13.9	55.0	1.55	48	191	65	20	8	
WH	17	1	85	113	1.015	1.60	2.03	30.9	120.0	2.01	63	244	84	26	10	
WH	Totals	2	85	113	2.751	3.20	5.50	20.2	79.0	3.55	111	435	149	47	18	
Totals		140	84	132	83.883	224.00	236.39	45.6	213.6	306.83	10,768	50,480	12,887	4,522	2,120	



Legend

- Timber Sale Boundary
- ═══ Surfaced Roads
- +++++ Railroad Track
- Type F Stream
- Type N Stream
- Stream Buffer
- ▨ Posted Stream Buffer Boundary
- Tractor Landing
- ▤ Tractor Yarding Area
- |-|-| ODF Ownership Boundary
- Section Line

LOGGING PLAN

FOR TIMBER SALE CONTRACT # 341-18-18
GROUND ROUND
PORTIONS OF SECTION 36, T3N, R6W, W.M., &
PORTIONS OF SECTION 31, T3N, R5W, W.M.,
WASHINGTON COUNTY, OREGON.

Forest Grove District GIS

August 31, 2017

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



APPROXIMATE NET ACRES = 42

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

0 500 1,000 2,000



Feet