

Timber Sale Appraisal Salmon Belly

Sale FG-341-2018-22-

District: Forest Grove Date: October 26, 2017

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$2,754,070.56	\$0.00 \$2,754,070.5	
		Project Work:	\$0.00
		Advertised Value:	\$2,754,070.56



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Sale FG-341-2018-22-

District: Forest Grove Date: October 26, 2017

Timber Description

Location: Portions of Section 20, T3N, R6W, W.M., Tillamook County, Oregon.

Stand Stocking: 20%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)	
Douglas - Fir	25	0	98	
Western Hemlock / Fir	26	0	95	

Volume by Grade	2\$	38	4 S	Total	
Douglas - Fir	4,455	764	73	5,292	
Western Hemlock / Fir	86	3	1	90	
Total	4,541	767	74	5,382	

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

Western redcedar and Other Cedars

Stumpage Price = Pond Value minus Logging Cost: \$1377.65/MBF = \$1,599.11/MBF - \$221.46/MBF

Red alder and other hardwoods

Stumpage Price = Pond Value minus Logging Cost:

\$371.77/MBF = \$593.23/MBF - \$221.46/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):

Non Project Road: 4 Stations @ \$1000/Station=\$4000

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:

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

Equipment Cleaning: 4 pieces x \$1,000/Piece = \$4,000

Slash Treatment: 35 acres x \$200/acre = \$7,000

TOTAL Other Costs (No Profit & Risk added) = \$17,000

ROAD MAINTENANCE

Move-in: \$4,000

General Road Maintenance: 7.1 miles x \$1,200/mile = \$8,520 TOTAL Road Maintenance: \$12,520/5382 MBF = \$2.33/MBF



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Sale FG-341-2018-22-

Date: October 26, 2017 **District: Forest Grove**

Logging Conditions

Douglas - Fir 32.00% Combination#: 1

Western Hemlock / Fir 32.00%

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

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

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

loads / day: bd. ft / load: 4600

cost / mbf: \$163.04

machines: Log Loader (A)

Stroke Delimber (A) Tower Yarder (Medium)

68.00% Combination#: 2 Douglas - Fir

Western Hemlock / Fir 68.00%

Logging System: Process: Harvester Head Delimbing

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

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

loads / day: bd. ft / load: 4600

cost / mbf: \$82.98 machines: Forwarder

Harvester

10/26/17 4



Timber Sale Appraisal Salmon Belly Sale FG-341-2018-22-

District: Forest Grove Date: October 26, 2017

Logging Costs

Operating Seasons: 1.00

Profit Risk: 10%

Project Costs: \$0.00 Slash Disposal: \$0.00 Other Costs (P/R): \$4,000.00

Other Costs: \$17,000.00

Miles of Road

Road Maintenance:

\$2.33

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	5.0	
Western Hemlock / Fir	\$0.00	2.0	4.5	



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Sale FG-341-2018-22-

District: Forest Grove Date: October 26, 2017

Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling / Brand & Paint	Other	Total	
Douglas -	Fir									
\$108.60	\$2.38	\$0.81	\$79.56	\$0.74	\$19.21	\$0.00	\$7.00	\$3.16	\$221.46	
Western Hemlock / Fir										
\$108.60	\$2.45	\$0.81	\$91.00	\$0.74	\$20.36	\$0.00	\$7.00	\$3.16	\$234.12	

Specie	Amortization	Pond Value	Stumpage	Amortized	
Douglas - Fir	\$0.00	\$735.34	\$513.88	\$0.00	
Western Hemlock / Fir	\$0.00	\$618.76	\$384.64	\$0.00	



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District: Forest Grove Date: October 26, 2017

Summary

Amortized

Specie	MBF	Value	Total
Douglas - Fir	0	\$0.00	\$0.00
Western Hemlock / Fir	0	\$0.00	\$0.00

Unamortized

Specie	MBF	Value	Total	
Douglas - Fir	5,292	\$513.88	\$2,719,452.96	
Western Hemlock / Fir	90	\$384.64	\$34,617.60	

Gross Timber Sale Value

Recovery: \$2,754,070.56

Prepared By: Eric Foucht Phone: 503-359-7473

TIMBER SALE SUMMARY Salmon Belly Contract No. 341-18-22

- 1. <u>Location</u>: Portions of Section 20, T3N, R6W, W.M., Tillamook County, Oregon.
- **2.** <u>Type of Sale</u>: This timber sale is 114 net acres of Modified Clearcut. The timber will be sold on a recovery basis at a sealed bid auction.
- 3. Revenue Distribution: 100% BOF, Tillamook County, Tax Code 56-1.
- **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 October of 2017. For more information see Cruise Report.
- **6.** <u>Timber Description</u>: The Timber Sale Area consists of a well-stocked 73 year old Douglas-fir stand with minor amounts of western hemlock and noble fir. The stand has an average of 197 ft² of basal area (all species), an average Douglas-fir DBH of 25 inches, and an estimated average net Douglas-fir volume of approximately 46.4 MBF per acre.

7. Volume Summary

SPECIES		2 SAW	3 SAW	4 SAW	TOTAL
	Cruise Volume	4,546	780	75	5,401
Douglas-fir	Hidden D&B (2%)	(91)	(16)	(2)	(109)
· ·	NET TOTAL	4,455	764	73	5,292
	% of Total	84	14	1	
	Cruise Volume	88	3	1	92
Western hemlock and	Hidden D&B (2%)	(2)	()	()	(2)
other conifer	NET TOTAL	86	3	1	90
	% of Total	96	3	1	

SALE TOTAL

SPECIES	2 SAW	3 SAW	4 SAW	TOTAL
Douglas-fir	4,455	764	73	5,292
Western hemlock/Other Conifer	86	3	1	90
TOTAL	4,541	767	74	5,382

8. Topography and Logging Method: Slopes within the sale areas generally range from 10% to 70%, with a northeastern aspect. The timber sale is 68% ground-based yarding and/or 32% cable yarding. The average cable corridor length is 500 feet and the longest corridor is approximately 1023 feet. The average horizontal skid trail length is approximately 480 feet and the maximum is approximately 600 feet.

9. Access: All access to the Timber Sale Area is on surfaced all-weather roads. From Forest Grove, travel north on Highway 47 through Banks then merge onto Highway 26 west-bound and continue for approximately 20 miles. Between the 31 and the 32 mile markers, turn left onto the Salmonberry Road and continue for approximately 5½ miles to the north side of the Timber Sale Area.

10. Projects: None

CRUISE REPORT Salmon Belly 341-18-22

1. LOCATION: Portions of Sections 20, T3N, R6W, W.M., Tillamook County, Oregon

2. CRUISE DESIGN:

Pre-cruise evaluation indicated that the stand's average DBH is approximately 25 inches and the Coefficient of Variation is about 55%. For sales of this size and approximate value, ODF cruise standards require a Sampling Error of 9% 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.

3. SAMPLING METHOD:

The Timber Sale Area was sampled in October, 2017 with 37 variable radius grade plots using a 40 BAF prism. Plots were laid out on a 3 chain x 7 chain grid. Plots falling on or near existing roads or no-harvest areas were offset 1 chain.

4. CRUISE RESULTS

182 trees were measured and graded producing a cumulative Sampling Error of 5.2% on the Douglas-fir Basal Area and 5.5% 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 six inch top.
- 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 cruiser Kenton Burns.

TC PS	FATS					DJECT ROJECT		STICS MBFIN2			PAGE DATE	1 10/10/2017
TWP	RGE	SC	TRACT		TYPE		AC	CRES	PLOTS	TREES	CuFt	BdFt
T3N	R6	20	A1		00MC			114.00	37	182	S	W
						TREES		ESTIMATED TOTAL		PERCENT SAMPLE		
		F	PLOTS	TREES		PER PLOT	,	TREES		TREES		
TOTA	A L		37	182		4.9						
	COUNT DREST NT NKS		37	182		4.9		6,687		2.7		
***************************************					STA	ND SUMI	MARY					
			MPLE 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		176	57.5	24.6	140	38.3	190.3	48,358	47,389	9,656	9,656
NOB	FIR		1	.4	23.0	142	0.2	1.1	266	266	56	56
	FIR-L		3	.3	42.3	162	0.5	3.2	1,042	1,024	177	177
	MLOCK		2	.5	29.2	122	0.4	2.2	545	545	106	106
ТОТ	AL		182	58.7	24.8	140	39.5	196.8	50,211	49,225	9,995	9,995
CON	ifideno 68			THE SAMPI T OF 100 T		ME WILL	BE WIT	HIN THE SAN	MPLE ERRO)R		
CL	68.1		COEFF			SAMPL	E TREE	S - BF	#	OF TREES	REQ.	INF. POP.
SD:	1.0		VAR.%	S.E.%	I	.OW	AVG	HIGH		5	10	15
NOB			53.7	4.0		1,006	1,048	1,091				
	FIR-L		12.0	8.3		2,824	3,080	3,336				
TOT	MLOCK AL		50.8 56.9	47.6 4.2		679 1.037	1,295 1.083	1,911 <i>1,128</i>		129	32	14
CL	68.1		COEFF	7.2			E TREE			OF TREES	-	INF. POP.
SD:	1.0		VAR.%	S.E.%	I	OW.	AVG	HIGH	π	5	10	15
	G FIR		46.2	3.5		201	208	215	olina san a sa			
	FIR-L		13.0	9.0		484	531	579				
	MLOCK		43.1	40.3		148	247	347		0.4	2.4	10
TOT			48.6	3.6		206	213	221		94	24	10
CL SD:	68.1 1.0		COEFF VAR.%	S.E.%	ī	TREES/ .OW	ACRE AVG	HIGH	#	OF PLOTS	REQ. 10	INF. POP.
	G FIR		51.0	8.4		53	57	62		3	10	13
NOB			608.3	99.9		0	0	1				
NOB	FIR - L		341.4	56.1		0	0	1				
	MLOCK		439.2	72.1		0	0	1		100	25	1.1
TOT			50.0	8.2		54	59	63		100	25	
	68.1		COEFF	C F 0/	ī		AREA/A		#	OF PLOTS		INF. POP.
SD: DOU	1.0 G FIR		VAR.% 32.6	S.E.% 5.4	L	OW 180	AVG 190	HIGH 200		5	10	15
NOB			608.3	99.9		0	1	200				
NOB	FIR-L		341.3	56.1		1	3	5				
	MLOCK		424.1	69.7		1	2	4		41	10	-
TOT			31.9	5.2		186	197	207		41	10	5
	68.1		COEFF	O E A/		NET BF		шси	#	OF PLOTS	-	INF. POP.
SD:	1.0		VAR.% 33.7	S.E.% 5.5		OW 4,767	AVG 47,389	50,012		5	10	15
DOIT			. 1. 1. /	٥.٥	4	7./0/	マノ、ンひブ	20,014				
DOU(99.9		0	266	532				
DOUG NOB NOB	FIR		608.3 343.8					532 1,602				

TC PS	ГАТS				PROJECT PROJECT				PAGE DATE	2 10/10/2017	
TWP	RGE	SC	TRACT	TYP	E	A	CRES	PLOTS	TREES	CuFt	BdFt
T3N	R6	20	A1	00M0	C		114.00	37	182	S	W
CL	68.1		COEFF		NET :	BF/ACRE			# OF PLO	INF. POP.	
SD:	1.00		VAR.	S.E.%	LOW	AVG	HIGH		5	10	15
тот	TOTAL		33.5	5.5	46,519	49,225	51,930		45	11	5
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
DOU	G FIR		32.6	5.4	9,139	9,656	10,174				
NOB	FIR		608.3	99.9	0	56	111				
NOB	FIR-L		344.1	56.5	77	177	277				
WHE	MLOCK		424.6	69.7	32	106	180				
тот	AL		32.3	5.3	9,464	9,995	10,525		42	10	5

TC	TC PSPCSTGR Species, Sort Grade - Board Foot Volumes (Project)																		
TT	3N RR6W S2	20 Ty00	MC 1	14.00		Project: SLMBFIN2										Page Date		1 0/10/2	
						114.00								Time		:40:5			
		%				Percent of Net Board Foot Volume									Logs				
	S So Gr	Net	Bd. F	t. per Acre	;	Total	Log	g Sca	le Dia.				Ln	Dia	Bd	CF/	Per		
Spp	T rt ad	BdFt	Def%	Gross	Net	Net MBF	4-5 6	-11	12-16	17+	12-20	21-30	31-35	36-99	Ft	In	Ft	Lf	/Acre
DF	CU														17	22		0.00	.7
DF	2M	84	2.2	40,758	39,881	4,546			35	65	0	1		99	40	17	474	2.25	84.2
DF	3M	14	1.3	6,938	6,846	780		95	3	2	0	1	6	93	38	8	108	0.78	63.5
DF	4M	2		662	662	75	1	100			40	60			20	6	25	0.40	26.2
DF	Totals	96	2.0	48,358	47,389	5,402		15	30	55	1	2	1	97	36	12	272	1.53	174.5
WH	2M	96		528	528	60			11	89				100	40	18	568	2.66	.9
WH	3M	2		9	9	1	1	100				100			26	8	50	0.96	.2
WH	4M	2		9	9	1	1	100			100				18	7	30	0.53	.3
WH	Totals	1		545	545	62		3	11	86	2	2		97	34	14	391	2.26	1.4
NE	I OII														1.2	22		0.00	2
	L CU L 2M	96	1.8	1,010	992	113			2	98	8			92	1	23 25	1117	0.00 4.96	.2 .9
	L 3M	3	1.0	29	29	3		100	2	76		34		66	1	10	134	1.50	.2
NF	L 4M	1		2	2	0	I	100			100				12	8	20	0.57	.1
NF	Totals	2	1.7	1,042	1,024	117		3	2	95	8	1		91	31	21	711	3.96	1.4
NF	2M	92		247	247	28			30	70				100	40	15	330	1.64	.7
NF	3M	8		19	19	2	1	100					100		34	6	50	0.49	.4
NF	Totals	1		266	266	30		7	28	65			7	93	38	12	237	1.30	1.1
Tota	ls		2.0	50,211	49,225	5,612		15	29	57	1	2	1	96	36	12	276	1.55	178.5

TC PLOGSTVB

Log Stock Table - MBF

TT3N RR6W S20 Ty00MC 114.00 Project: SLMBFIN2

Page 1
Page 1
Page 1
Page 10/10/2017

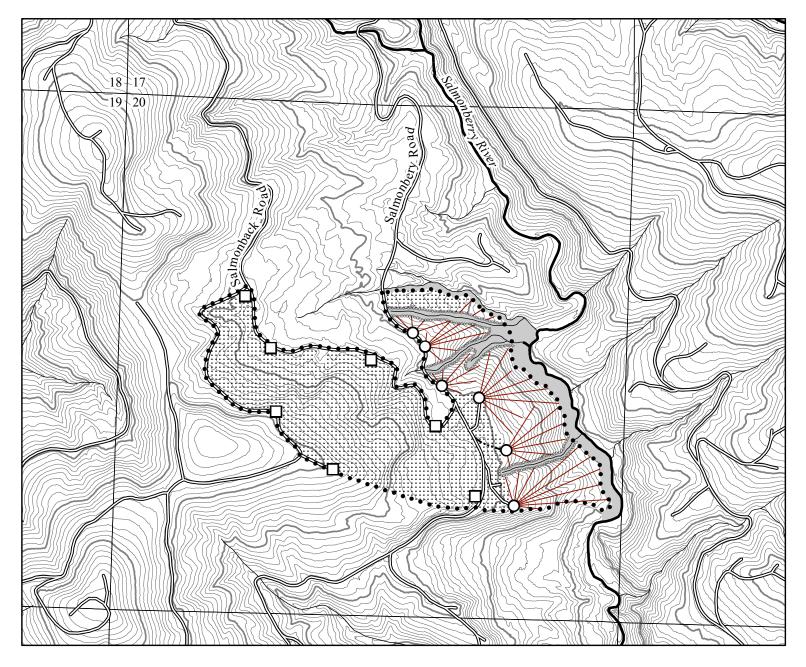
Acres 114.00 Project: SLMBFIN2 Date 10/10/2017
Time 1:40:57PM

	S So Gr	Log	Gross	Def	Net	%	Net Volume by Scaling Diameter in Inches											
Spp	T rt de			%	MBF	Spc	2-3	4-5	6-7	8-9	10-11	-	14-15	16-19	20-23	24-29	30-39	40+
DF	2N	1 16	7		7	.1									7			
DF	2N	1 18	3	27.3	2	.0						2						
DF	2N	1 20	5		5	.1									5			
DF	2N	1 24	14	9.8	13	.2										13		
DF	2N	1 26	31	7.5	29	.5									29			
DF	2N	1 40	4,586	2.1	4,491	83.1						378	676	1604	1301	532		
DF	3N	1 20	1		1	.0				1								
DF	3N	1 24	1		1	.0				1								
DF	3N	1 28	4		4	.1			3	1								
DF	3N	1 30	3		3	.1				3								
DF	3N	1 32	20		20	.4			18	1								
DF	3N	1 34	27		27	.5			24	3								
DF	3N	1 36	57		57	1.1			22	29	7							
DF	3N	1 38	41		41	.8			16	19	6							
DF	3N	1 40	638	1.6	627	11.6			92	127	371		24	14				
DF	4N	1 12	11		11	.2			10	1								
DF	4N	1 14	3		3	.1			2	1								
DF	4N	1 16	6		6	.1			5	1								
DF	4M	1 18	7		7	.1			6		1							
DF	4N	1 20	3		3	.1			3									
DF	4M	1 22	5		5	.1			5									
DF	4N	1 24	7		7	.1			6	1								
DF	4N	1 26	5		5	.1			5									
DF	4N	1 28	11		11	.2			11									
DF	4N	1 30	17		17	.3			17									
DF	Total		5,513	2.0	5,402	96.3			244	189	384	380	700		1342	545		
WH	2N	1 40	60		60	96.8						7		29		24		
WH	3M	I 26	1		1	1.6				1								
WH	4N	18	1		1	1.6			1									
WH	Total		62		62	1.1			1	1		7		29		24		
NF I	1		l		9	7.6										9		
NF I	2N	I 40	106	1.9	104	89.3						3		6		28	68	
NF I	3M	1 24	1		1	1.0					1							
NF I	_ 3M	40	2		2	1.9					2							
															1			

TC F	C PLOGSTVB Log Stock Table - MBF																		
TT3N RR6W S20 Ty00MC 114.00							Project: SLMBFIN2 Acres 114.00									Page Date Time	10/	2 /10/201 40:57F	
	s	So Gr	Log	Gross	Def	Net	%		1	let Volu	ıme by	Scalin	g Dian	eter in	Inches				
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+
NF	L	4M	12	0		0	.2				0								
NF		Totals	S	119	1.7	117	2.1				0	3	3		6		37	68	
NF		2M	40	28		28	93.0						9		20				
NF		3M	34	2		2	7.0			2									
NF		Totals	5	30		30	.5			2			9		20				
Total		All Specie	es	5,724	2.0	5,612	100.0			247	191	388	398	700	1673	1342	606	68	

TC PSTNDSUM	Stand Table Summary	Page 1 Date: 10/10/2017
TT3N RR6W S20 Ty00MC 114.00	Project SLMBFIN2	Time: 1:40:54PM
	Acres 114.00	Grown Year:

<u> </u>								ı — —		Т					
S Spc T	DBH	Sample Trees	FF 16'	Tot Av Ht	Trees/ Acre	BA/ Acre	Logs Acre	Averag Net Cu.Ft.	ge Log Net Bd.Ft.	Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Tons	Totals Cunits	MBF
DF	12	1	88	99	1.376	1.08	2.75	12.8	55.0	1.01	35	151	115	40	17
DF	14	1	89	127	1.011	1.08	2.02	22.1	75.0	1.27	45	152	145	51	17
DF	15	2	88	103	1.762	2.16	3.52	22.1	95.0	2.22	78	335	253	89	38
DF	16	2	89	115	1.549	2.16	3.10	27.4	117.5	2.42	85	364	276	97	41
DF	17	4	89	128	2.743	4.32	7.54	25.1	107.3	5.40	190	809	616	216	92
DF	18	1	89	148	.612	1.08	1.84	28.9	133.3	1.51	53	245	173	61	28
DF	19	3	79		1.647	3.24	3.29	36.8	125.0	3.46	121	412	394	138	47
DF	20	7	89	137	3.469	7.57	10.41	34.1	152.4	10.11	355	1,586	1,153	405	181
DF	21	10	89	136	4.495	10.81	13.48	38.1	177.7	14.66	514	2,396	1,671	586	273
DF	22	13	89	138	5.324	14.05	15.97	43.2	201.0	19.65	689	3,211	2,240	786	366
DF	23	7	90		2.623	7.57	7.87	47.1	218.6	10.56	370	1,720	1,204	422	196
DF	24	15	89	142	5.162	16.22	15.49	51.8	239.3	22.86	802	3,706	2,606	914	423
DF	25	12	89		3.806	12.97	13.32	50.6	241.2	19.21	674	3,213	2,190	769	366
DF	26	13	90		3.812	14.05	12.31	59.4	294.3	20.83	731	3,624	2,375	833	413
DF	27	10	89	149	2.719	10.81	8.70	66.2	333.1	16.41	576	2,898	1,870	656	330
DF	28	18	90		4.551	19.46	15.67	66.5	336.0	29.71	1,043	5,266	3,387	1,188	600
DF	29	7	90	159	1.650	7.57	5.89	70.5	364.0	11.83	415	2,145	1,349	473	245
DF	30	13	89	150	2.863	14.05	9.25	78.7	393.3	20.76	728	3,638	2,366	830	415
DF	31	7	89	151	1.444	7.57	4.95	81.3	425.8	11.48	403	2,108	1,308	459	240
DF	32	6	90	149	1.161	6.49	3.68	92.4	469.5	9.69	340	1,727	1,105	388	197
DF	33	1	90	137	.182	1.08	.55	99.9	463.3	1.55	55	253	177	62	29
DF	34	7	89	155	1.200	7.57	4.12	99.7	534.6	11.70	410	2,200	1,333	468	251
DF	35	3	89	157	.485	3.24	1.78	101.9	570.9	5.17	181	1,016	589	207	116
DF	36	6	89	148	.918	6.49	2.91	118.5	644.7	9.82	344	1,874	1,119	393	214
DF	37	1	90	164	.145	1.08	.58	106.2	575.0	1.75	61	333	200	70	38
DF	38	1	89	164	.137	1.08	.55	113.5	595.0	1.78	62	327	202	71	37
DF	39	4	90	166	.521	4.32	1.95	125.2	714.7	6.98	245	1,397	795	279	159
DF	41	1	89	155	.118	1.08	.35	140.4	806.7	1.42	50	285	161	57	33
DF	Totals	176	89	140	57.484	190.27		55.5	272.6	275.21	9,656	47,389	31,374	11,008	5,402
NF L	42	2	91	170	.225	2.16	.90	141.2	811.3	3.05	127	729	347	145	83
NF L	43	1	91	147	.107	1.08	.32	154.9	916.7	1.20	50	295	136	57	34
NF L	Totals	3	91	162	.332	3.24	1.22	144.8	839.0	4.24	177	1,024	484	201	117
WH	26	1	93	119	.293	1.08	.88	57.4	276.7	1.61	50	243	184	58	28
WH	34	1	93	127	.171	1.08	.51	107.6	586.7	1.77	55	302	202	63	34
WH	Totals	2	93	122	.465	2.16	1.39	75.9	391.1	3.39	106	545	386	121	62
NF	23	1	90	142	.375	1.08	1.12	49.4	236.7	1.33	56	266	152	63	30
NF	Totals	1	90	142	.375	1.08	1.12	49.4	236.7	1.33	56	266	152	63	30
Totals		182	89	140	58.656	196.76	177.59	56.3	277.2	284.17	9,995	49,225	32,395	11,394	5,612



Legend

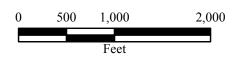
- • • Timber Sale Boundary
- Surfaced Roads
- ---- Non-Project Road
- Type F Stream
- Type N Stream
- Stream Buffer
- Posted Stream Buffer Boundary
- Cable Yarding Area
- :::::: Tractor Yarding Area
- O Cable Landing
- ☐ Tractor Landing
- ODF Ownership Boundary
- Section Line
- —— 20 Foot Contour
- —— 200 Foot Contour

LOGGING PLAN

FOR TIMBER SALE CONTRACT 341-18 -22 SALMON BELLY PORTIONS OF SECTION 20 T3N, R6W, W.M., TILLAMOOK COUNTY, OREGON

Forest Grove District GIS
Seotember, 2017
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 YARDING AREA 77
CABLE YARDING AREA 37

TOTAL 114