

Sale SW-341-2019-GF7719-01

District: S Cascade Date: March 19, 2019

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$253,039.95	\$0.00	\$253,039.95
		Project Work:	\$0.00
		Advertised Value:	\$253,039.95



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Timber Description

Location: Section 7 & 8, T20S, R2E, W.M.

Lane County, Oregon

Stand Stocking: 60%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	15	0	95

Volume by Grade	28	3S & 4S 6"- 11"	Total
Douglas - Fir	255	390	645
Total	255	390	645

4/15/19

Comments:

Western Hemlock and Other Conifers Stumpage Price = Pond Value minus Logging Cost: \$262.19/MBF = \$535/MBF - \$272.81/MBF

Western redcedar and Other Cedars Stumpage Price = Pond Value minus Logging Cost: \$693.19/MBF = \$966/MBF - \$272.81/MBF

Maple and Other Hardwoods Stumpage Price = Pond Value minus Logging Cost: \$200.19/MBF = \$473/MBF - \$272.81/MBF

BRANDING AND PAINTING COST ALLOWANCE= \$2.00/MBF

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

Equipment Move-in: ((\$120/hr + (\$22/hr x 1 pilot)) x 4 hr/ move cycle x 4 machines = \$2,272

Equipment Weed Wash = ((\$120/hr + (\$22/hr x 2 pilots)) x 2.5 hr wash = \$410 x 4 machines = \$1,640

Landing pull back of displaced material, installation of water bars, bucket ripping to depth of 20 inches, seeded, and weed-free strawed = $$400 \times 7$$ landings = \$2,800

Primary Skid Trail entrance blocked, pulling back of displaced material, installation of water bars, bucket ripping to depth of 20 inches, seeded, and weed-free strawed = \$4,000/mi x 0.5 miles = \$2,000

Prior to wet weather season, landings and skid trails water barred = \$2,000

Dust Abatement = $(\$100/hour \times 45 \text{ day in summer}) + \$500 \text{ move-in} = \$5,000$

TOTAL Other Costs (with Profit & Risk to be added) = \$15,712

Other Costs (No Profit & Risk added):

Pile Landing Slash: 7 Landings (7hrs @ \$150/hr) = \$1,050

Covering Piles: (\$8.80/pile x 7 piles) + (\$22/hr x 2 covering personnel x 8 hours) = \$413.60

TOTAL Other Costs (No Profit & Risk added): \$1,463.60

4/15/19



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Logging Conditions

Combination#: 1 Douglas - Fir 100.00%

Logging System: Track Skidder Process: Feller Buncher

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

tree size: Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF

loads / day: 10 bd. ft / load: 3700

cost / mbf: \$110.52

machines: Log Loader (B)

Stroke Delimber (B) Feller Buncher w/ Delimber

Track Skidder



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Logging Costs

Operating Seasons: 2.00

Profit Risk: 15%

Project Costs: \$0.00 Slash Disposal: \$0.00

Other Costs (P/R): \$15,712.00

Other Costs: \$1,463.60

Miles of Road

Road Maintenance:

\$0.00

Dirt	Rock (Contractor)	Rock (State)	Paved
3.0	0.0	0.0	0.0

Hauling Costs

Species	\$/MBF	Trips/Day	MBF / Load
Douglas - Fir	\$0.00	3.0	4.0



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Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
Douglas -	Fir								
\$110.52	\$1.89	\$13.61	\$83.13	\$24.36	\$35.03	\$0.00	\$2.00	\$2.27	\$272.81

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$665.12	\$392.31	\$0.00



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Summary

Amortized

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

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	645	\$392.31	\$253,039.95

Gross Timber Sale Value

Recovery: \$253,039.95

Prepared By: Kyle Sullivan Phone: 541-285-8685

OREGON DEPARTMENT of FORESTRY CRUISE REPORT

SALE NAME: Cain GNA

- 1. Acreage Calculation: There are 26 net cruise acres in the sale area determined by a combination of GPS traverse waypoints and ArcGIS 10.6 software.
- 2. Cruise Method: Cain GNA timber sale was cruised by ODF during the fall of 2018. A variable plot cruise was conducted on the sale area.
- 3. RIGHT of WAY VOLUMES: There is currently no right of way volume associated with this sale.
- 4. Sampling Intensity:

Plots

19 Total Plots (9 measured, 10 Count)

CV (BDFT)	37.5%	(combined volume)
SE (BDFT)	8.8%	(combined volume)
CV (BDFT)	59.1%	(take)
SE (BDFT)	13.9%	(take)

As per ODF standards, total harvest volume of Douglas-fir ("take" trees) is estimated to be 645 MBF \pm 90 MBF at the 68% confidence level and a sampling error of 13.9%*. 68 times out of 100 the volume estimate will be within range of error specified.

- 5. Computation Procedures: Volume was computed using the SuperACE cruise program. Volumes reported are based on the Scribner Log Rule (West).
- **6. Form Factors:** Form factors (a ratio of diameter at 4 and 16 feet) were sampled across the diameter distribution.
- 7. Height Standards: Most conifer trees were measured for total height with a Relaskop.
- 8. Diameter standards: Diameters were measured outside bark at breast height to the nearest inch.
- 9. **Grading System:** Trees were graded primarily as 34 foot segments lengths and according to the <u>Official Log Scaling and Grading Rules</u> published by the Northwest Log Rules Advisory Group.
- 10. Merchantable top: Conifer were graded to a merchantable top specified by the official log scaling rules. For all Douglas-fir, 2S segments were graded to a 12" top inside bark, 3S to a 6" top, and 4S to a 5" top (inside bark).
- 11. Deductions for Cull, Defect and Breakage: All visible field cull was removed in the cruise computation.
- 12. Cruisers: Cruising was performed by Kyle Sullivan.

*ODF does not guarantee the volume of this or any other cruise. Prospective purchasers are advised to do their own cruise and sale volume calculations.

Chris Rudd, FFR Coordinator: Our Pudd

Date 1-24-2019

PROJECT STATISTICS

	Plots	Trees	Trees Per Plot
Cruise	9	69	7.7
Count	10	70	7.0
Blank			
Total	19	139	7.3

Final Cruise Results for 'Take' Trees

A	Avg.	BF / Acre			TOTAL MBF				
Species	DBH	25	35	45	Total	25	35	45	Total
Douglas-fir	15.5	9,804	11,467	3,544	24,814	255	298	92	645
			To	tal MBF A	All Species:	255	298	92	645

^{*}ODF does not guarantee the volume of this or any other cruise. Prospective purchasers are advised to do their own cruise and sale volume calculations.

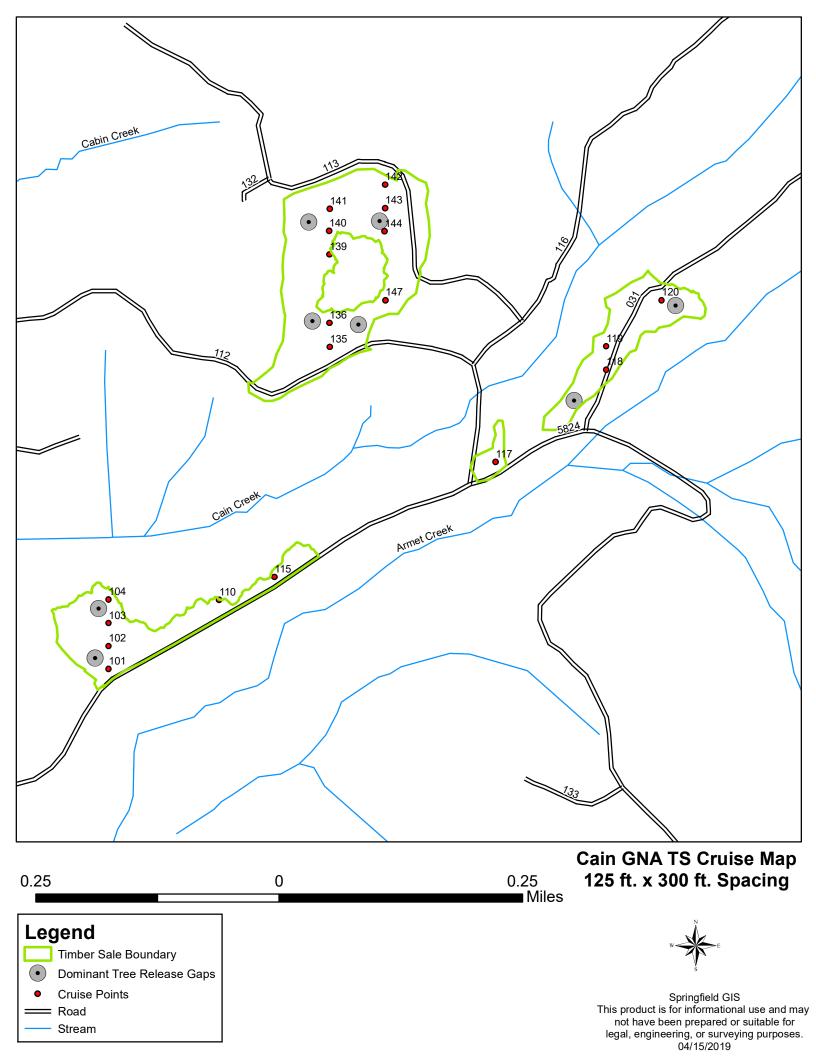
TC PST	rats Sullivan		PAGE DATE	1 12/26/2018								
		TRACT	-	ГҮРЕ		AC	RES	TREES	CuFt	BdFt		
20S	02E	08	1	0001			26.00	19	139	S	W	
						TREES		ESTIMATED TOTAL		ERCENT AMPLE		
		P	PLOTS	TREES		PER PLOT		TREES		TREES		
TOTA	AL		19	139		7.3						
	ISE COUNT DREST		9	69		7.7		4,545		1.5		
COU BLAI 100 %	NKS		10	70		7.0						
STAND SUMMARY												
			MPLE TREES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
	G FIR-L		21	48.3	17.7	122	19.6	82.5	17,177	16,918	3,571	3,569
	G FIR-T		43	102.8	15.5	115	34.2	134.5	25,507	24,814	5,445	5,446
	CED-L RRY-L		3 2	12.0 11.7	11.8 8.4	70 28	2.7 1.6	9.2 4.5	857 234	857 234	232 55	232 55
TOT			69	174.8	15.6	108	58.5	230.7	43,776	42,824	9,303	9,303
CONFIDENCE LIMITS OF THE SAMPLE 68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR												
CL	68.1		COEFF		_		E TREES		#	OF TREES R	-	INF. POP.
SD:	1.0 G FIR-L		VAR.% 49.7	S.E.% 11.1	L	OW 382	AVG 430	HIGH 478		5	10	15
	G FIR-T		50.4	7.7		279	303	326				
INC (CED-L		63.6	44.0		62	110	158				
CHE	RRY-L		58.7	7.1		20 302	20 325	20 348		138	34	15
				7.1							-	
CL SD:	68.1 1.0		COEFF VAR.%	S.E.%	ī	SAMPLI OW	E TREES - AVG	· CF HIGH	#	OF TREES R	EQ. 10	INF. POP.
	G FIR-L		42.8	9.6		80	88	97			10	1,
	G FIR-T		49.6	7.6		62	67	72				
	CED-L		63.7	44.1		17	30	43				
TOT	RRY-L AL		7.5 53.8	7.1 6.5		4 65	5 70	5 74		116	29	13
CL	68.1		COEFF			TREES/			#	OF PLOTS R		INF. POP.
	1.0		VAR.%	S.E.%	L	OW	AVG	HIGH	π	5	10	15
	G FIR-L		52.6	12.4		42	48	54				
	G FIR-T		60.2	14.2		88	103	117				
	CED-L RRY-L		338.8 311.6	79.8 73.4		2 3	12 12	22 20				
TOT			53.1	12.5		153	175	197		119	30	13
CL	68.1		COEFF			BASAL .	AREA/AC	RE	#	OF PLOTS R	EQ.	INF. POP.
	1.0		VAR.%	S.E.%	I.	OW	AVG	HIGH		5	10	15
	G FIR-L		49.3	11.6		73	83	92				
	G FIR-T CED-L		59.4 338.8	14.0 79.8		116 2	134 9	153 17				
	RRY-L		303.7	71.6		1	4	8				
TOT	AL		41.6	9.8		208	231	253		73	18	8
	68.1		COEFF	an	_	NET BE		MCM	#	OF PLOTS R		INF. POP.
	1.0 G FIR-L		VAR.% 50.8	S.E.% 12.0		OW 14,894	AVG 16,918	HIGH 18,943		5	10	15
	G FIR-L G FIR-T		50.8 59.1	13.9		14,894 21,359	24,814	18,943 28,270				
INC (CED-L		338.8	79.8		173	857	1,541				
CHE	RRY-L		311.6	73.4		62	234	406				

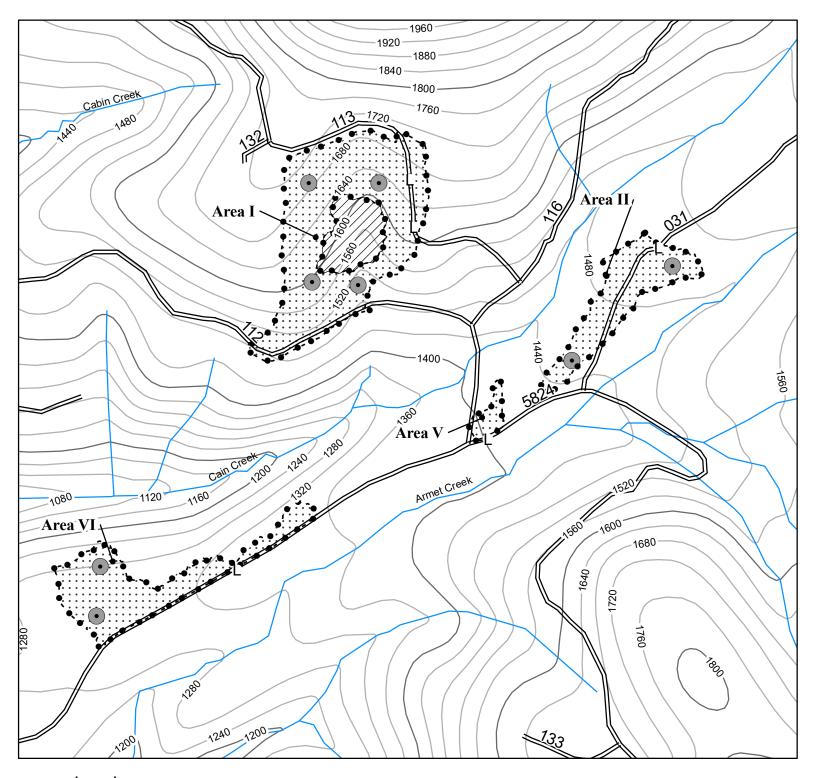
TC PST	ATS Sullivan					PAGE DATE	2 12/26/2018						
TWP	RGE	SC	TRACT	TYP	E	A	CRES	PLOTS	TREES	CuFt	BdFt		
20S	02E	08	1	0001			26.00	19	139	S	W		
CL	68.1 COEFF NET BF/ACRE								# OF PLOTS	S REQ.	INF. POP.		
SD:	1.00		VAR.	S.E.%	LOW	AVG	HIGH		5	10	15		
TOTA	TOTAL		37.5	8.8	39,035	42,824	46,612		59	15	7		
CL	68.1		COEFF		NET (CUFT FT/A	CRE		# OF PLOTS RI	ΞQ.	INF. POP.		
SD:	1.0		VAR.%	S.E.%	LOW	AVG	HIGH		5	10	15		
DOUG	3 FIR-L		50.5	11.9	3,145	3,569	3,994						
DOUG	G FIR-T		59.2	13.9	4,686	5,446	6,206						
INC C	ED-L		338.8	79.8	47	232	418						
CHER	RY-L		316.1	74.5	14	55	96						
TOTA	AL		37.9	8.9	8,473	9,303	10,132		60	15	7		

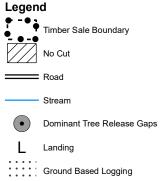
																	111110	11.	33,20P	1171
	\mathbf{s}	So G	Fr	Log	Gross	Def	Net	%		ľ	let Volu	me by S	caling D	iamete	r in Inch	es				
Spp	Т	rt d	e	Len	MBF	%	MBF	Spc	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
DF	T	DO	2M	12	5		5	.7							5					
DF	T	DO	2M	34	263	4.7	250	38.8				8	29	120	56	38				
DF	T	DO	3M	34	302	1.8	296	45.9		9	46	102	99	24	5	11				
DF	T	DO	3M	40	2		2	.3		2										
DF	T	DO	4M	15	2		2	.3		2										
DF	T	DO	4M	16	1		1	.2		1										
DF	T	DO	4M	18	1		1	.2		1										
DF	T	DO	4M	19	2		2	.2		2										
DF	T	DO	4M	20	5		5	.8		1		4								
DF	T	DO	4M	21	1		1	.1		1										
DF	Т	DO	4M	22	5		5	.8		3		2								
DF	Т	DO	4M	23	3		3	.4		3										
DF	Т	DO	4M	24	13		13	2.0		9	4									
DF	Т	DO	4M	25	1		1	.2		1										
DF	Т	DO	4M	26	4		4	.6				4								
DF	T	DO	4M	28	12		12	1.8		12										
DF	T	DO	4M	30	9		9	1.4		5		4								
DF	Т	DO	4M	33	9		9	1.5		9										
DF	Т	DO	4M	34	6		6	.9		6										
DF	Т	DO	4M	35	9		9	1.4		3				5						
DF	Т	DO	4M	36	1		1	.2		1										
DF	Т	DO	4M	37	3		3	.5		3										
DF	Т	DO	4M	38	2		2	.2		2										
DF	Т	DO	4M	39	2		2	.3		2										
DF	Т	DO	4M	40	3		3	.4		3										
DF		7	otals		663	2.7	645	57.9		82	49	123	128	149	66	50				
DF	L	DO	2M	12	5		5	1.2						5						
DF	L	DO	2M	34	232	2.9	225	51.3				6	13	60	51	96				
DF	L	DO	3M	34	159		159	36.2			13	44	52	35	16					
DF	L	DO	4M	13	1		1	.3		1										
DF	L	DO	4M	19	2		2	.4		2										
DF	L	DO	4M	20	4		4	.9				4								
DF	L	DO	4M	21	3		3	.6		1			2							
DF	L	DO	4M	22	6		6	1.4		4		2								
DF	L	DO	4M	24	2		2	.4		2										
DF	L	DO	4M	25	2		2	.5		2										
															l		1		1	

	Kyle Sullivan																	
T20S R02E S08 Ty0001 26.00						Proje Acre							Page Date Time	12/26/2018				
	s	So Gr	Log	Gross	Def	Net	%]	Net Volume by Scaling Diameter in Inches									
Spp	T	rt de	Len	MBF	%	MBF	Spc	2-3 4-5	6-7	8-9	10-11 12-1	3	14-15	16-19	20-23	24-29	30-39	40+
DF	L	DO 4N	1 26	j :	3	3	.7				3							
DF	L	DO 4N	1 27	·	3	3	.7	3										
DF	L	DO 4N	1 28	1	2	2	.5	2										
DF	L	DO 4N	4 30	1	1	1	.3	1										
DF	L	DO 4N	1 34	. 3	3	3	.6	3										
DF	L	DO 4N	1 35	3	3	3	.6	3										
DF	L	DO 4N	1 36	1	2	2	.4	2										
DF	L	DO 4N	1 37	1	1	1	.3	1										
DF	L	DO 4N	1 39	1	3	3	.8	3										
DF	L	DO 4N	1 41	ġ)	9	2.0	9										
DF		Tota	s	447	7 1.5	440	39.5	39	13	56	70 1	100	67	96				
IC	L	DO 3N	A 28	: (5	6	27.5	6										
IC	L	DO 3N	1 34	. (5	6	26.0				6							
IC	L	DO 4N	4 30	1	1	1	6.0	1										
IC	L	DO 4N	1 34	. 9)	9	40.6	3		6								
IC		Tota	s	22	2	22	2.0	10		6	6							
СН	L	DO 4N	A 16	2	2	2	36.5		2									
СН	L	DO 4N	1 20	2	1	4	63.5	4										
СН		Tota	s		5	6	.5	4	2									
Total		All Speci	es	1,138	3 2.2	2 1,113	100.0	135	64	185	203 2	249	133	146				

TC PSPCSTGR Species, Sort Grade - Board Foot Volumes (Project) Kyle Sullivan																			
	T20S R02E S08 Ty0001 26.00				Project: CAIN							Page Date		1 12/26/2018					
					Acres			26.	00							Time		:33:2	
	%						Pero	cent of l	Net Boar	rd Foot	Volume				Average Lo			Log Logs	
S So Gr	Net	Bd. Ft	. per Acre		Total			Log Sc	ale Dia.			Log l	Length		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 T DO 2M	39	4.7	10,283	9,804		255		14	79	7	2		98		33	13	191	1.18	51.3
DF T DO 3M	46	1.8	11,681	11,467		298	4	83	10	4			99	1	34	9	93	0.61	122.7
DF T DO 4M	15		3,544	3,544		92	76	18	6		12	51	26	11	24	5	30	0.31	116.8
DF Totals	58	2.7	25,507	24,814		645	13	46	37	4	2	7	88	2	30	8	85	0.62	290.9
DF L DO 2M	52	2.8	9,132	8,873		231		8	68	24	2		98		32	13	213	1.28	41.7
DF L DO 3M	36		6,124	6,124		159		68	32				100		34	10	119	0.75	51.6
DF L DO 4M	12		1,922	1,922		50	78	22			14	45	10	31	27	6	35	0.35	55.6
DF Totals	40	1.5	17,177	16,918		440	9	31	47	12	3	5	89	3	31	9	114	0.78	148.9
IC L DO 3M	53		458	458		12	51	49				51	49		29	6	48	0.43	9.6
IC L DO 3M IC L DO 4M	47		399	399		10	38	62				13	87		15	5	27		14.5
IC Totals	2		857	857		22	45	55				33	67		21	5	36	0.47	24.1
CH L DO 4M	100		234	234		6	64	36			100				19	5	20	0.25	11.7
CH Totals	1		234	234		6	64				100				19	5		0.25	11.7
Totals		2.2	43,776	42,824		1,113	12	41	40	7	3	7	88	2	30	8	90	0.66	475.6







LOGGING PLAN

Sale No. SW-341-2019-GF7719-01 Cain GNA Timber Sale Section 7 & 8, T20S, R2E, W.M. Lane County, Oregon Regulated Use Area EL-1 Willamette National Forest

Approximate Net Acres

Total	26
Area 6	6
Area 5	1
Area 2	5
Area 1	14

0 1,000 2,000 3,000 Feet

