



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Corner Pocket
Sale Fg-341-2020-W00229-01

District: Forest Grove

Date: September 11, 2019

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$1,515,315.20	\$0.00	\$1,515,315.20
		Project Work:	\$0.00
		Advertised Value:	\$1,515,315.20



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Timber Description

Location: Portions of Sections 28 and 29, T3N, R5W, W.M., Washington County, Oregon

Stand Stocking: 20%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	32	0	98

Volume by Grade	2S	3S & 4S 6"- 11"	Total
Douglas - Fir	2,929	207	3,136
Total	2,929	207	3,136

Comments: Pond Values Used: Local Pond Values, July 2019.

Western redcedar and Other Cedars Stumpage Price = Pond Value minus Logging Cost:
 $\$750.05/\text{MBF} = \$936/\text{MBF} - \$185.95/\text{MBF}$

Western hemlock and other conifers Stumpage Price = Pond Value minus Logging Cost:
 $\$352.05/\text{MBF} = \$538/\text{MBF} - \$185.95/\text{MBF}$

Red alder and other hardwood Stumpage Price = Pond Value minus Logging Cost:
 $\$374.05/\text{MBF} = \$560/\text{MBF} - \$185.95/\text{MBF}$

BRANDING AND PAINTING COST ALLOWANCE = \$2.00/MBF

FUEL COST ALLOWANCE = \$3.00/Gallon

HAULING COST ALLOWANCE

Hauling costs equivalent to \$950 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:

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

Equipment Cleaning: 3 pieces x \$1,000/Piece = \$3,000

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

Snag Creation by Gridling: 50 trees x \$20 = \$1,000

TOTAL Other Costs (No Profit & Risk added) = \$15,500

ROAD MAINTENANCE

Move-in: \$4,000

General Road Maintenance: 1.6 miles x \$1,200/mile = \$1,920

TOTAL Road Maintenance: \$5,920/3,136 MBF = \$1.89/MBF



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Logging Conditions

Combination#: 1	Douglas - Fir	100.00%
Logging System:	Shovel	Process: Feller Buncher
yarding distance:	Medium (800 ft)	downhill yarding: No
tree size:	Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF	
loads / day:	10	bd. ft / load: 3850
cost / mbf:	\$91.90	
machines:	Feller Buncher w/ Delimber	



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Logging Costs

Operating Seasons: 1.00	Profit Risk: 12%
Project Costs: \$0.00	Other Costs (P/R): \$0.00
Slash Disposal: \$0.00	Other Costs: \$15,500.00

Miles of Road

Road Maintenance: \$1.89

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	5.0



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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									
\$91.90	\$1.93	\$1.40	\$64.60	\$0.00	\$19.18	\$0.00	\$2.00	\$4.94	\$185.95

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$669.15	\$483.20	\$0.00



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Timber Sale Appraisal
Corner Pocket
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District: Forest Grove

Date: September 11, 2019

Summary

Amortized

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

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	3,136	\$483.20	\$1,515,315.20

Gross Timber Sale Value

Recovery: \$1,515,315.20

Prepared By: Adrian Torres

Phone: 503-359-7460

CRUISE REPORT
Corner Pocket
FG-341-2020-W00229-01

1. LOCATION: Portions of Sections 28 and 29, T3N, R5W, W.M., Washington County, Oregon.

2. CRUISE DESIGN:

Pre-cruise evaluation indicated that the stand's average DBH is approximately 22.5 inches and the coefficient of variation is about 56%. 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 July, 2019 with 22 variable radius grade plots using a 40 BAF prism. Plots were laid out on a 5 chain x 5 chain grid for the Timber Sale Area. Plots falling on or near existing roads or no-harvest areas were offset 1 chain.

4. CRUISE RESULTS:

113 trees were measured and graded producing a cumulative Sampling Error of 5.2% on the Douglas-fir basal area and 5.7% for the Douglas-fir board foot volume.

5. TREE MEASUREMENT AND GRADING:

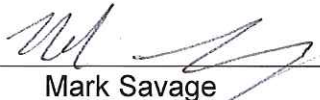
All sample trees were measured and graded following Columbia River Log Scale grade rules and favored 40 foot segments.

- 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) for conifers.
- b) **Diameter Standards:** Diameters were measured outside bark at breast height to the nearest inch.
- c) **Form Factors:** 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:** The following percent volume deductions are by species to account for the hidden defect and breakage. For conifers two percent was deducted.

6. CRUISERS: The sale was cruised by ODF cruisers Mark Savage and Adrian Torres.

Prepared by:	<u>Adrian Torres</u>	<u>07/18/2019</u>
		Date
Reviewed by:	 <u>Mark Savage</u>	<u>8/14/2019</u>
		Date

TC PSTATS		PROJECT STATISTICS						PAGE	1			
		PROJECT CORNPOW						DATE	7/24/2019			
TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt			
03N	05	19	00A1	00MC	56.00	22	113	S	W			
03N	05W	19	00A2	00MC								
			PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES					
TOTAL			22	113	5.1							
CRUISE			22	113	5.1	2,216	5.1					
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			111	36.6	31.8	156	35.8	201.8	57,407	57,138	10,864	10,864
WHEMLOCK			1	2.7	11.0	79	0.5	1.8	189	189	44	44
NOB FIR			1	.3	34.0	159	0.3	1.8	547	538	98	98
TOTAL			113	39.6	30.8	150	37.0	205.4	58,143	57,865	11,006	11,006
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			36.4	3.4	1,656	1,715	1,774					
WHEMLOCK												
NOB FIR												
TOTAL			37.5	3.5	1,642	1,702	1,762	56	14	6		
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			32.3	3.1	313	323	333					
WHEMLOCK												
NOB FIR												
TOTAL			33.5	3.1	310	320	330	45	11	5		
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			30.9	6.7	34	37	39					
WHEMLOCK			469.0	102.2		3	5					
NOB FIR			469.0	102.2		0	1					
TOTAL			41.6	9.1	36	40	43	72	18	8		
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			24.0	5.2	191	202	212					
WHEMLOCK			469.0	102.2		2	4					
NOB FIR			469.0	102.2		2	4					
TOTAL			24.1	5.2	195	205	216	24	6	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			
DOUG FIR			26.2	5.7	53,874	57,138	60,402					
WHEMLOCK			469.0	102.2		189	383					
NOB FIR			469.0	102.2		538	1,088					
TOTAL			26.3	5.7	54,552	57,865	61,179	29	7	3		
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			25.4	5.5	10,263	10,864	11,464					
WHEMLOCK			469.0	102.2		44	89					

Area 1 & 2

TC PSTATS				PROJECT STATISTICS				PAGE	2	
				PROJECT CORNPOW				DATE	7/24/2019	
TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt
03N	05	19	00A1	00MC		56.00	22	113	S	W
03N	05W	19	00A2	00MC						
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
NOB FIR			469.0	102.2		98	199			
TOTAL			25.3	5.5	10,399	11,006	11,614	27	7	3

TC		Species, Sort Grade - Board Foot Volumes (Project)																				
T03N R05W S19 Ty00MC 45.00 T03N R05W S19 Ty00MC 11.00		Project: CORNPOWO Acres 56.00										Page 1 Date 7/24/2019 Time 9:34:05AM										
S Spp	So T	Gr rt	ad	% Net BdFt	Bd. Ft. per Acre			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		
					Def%	Gross	Net		4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99						
DF		CU															8	24		0.00	.6	
DF		2M		93	.5	53,600	53,357	2,988				13	87		0	1	99	40	19	660	2.98	80.9
DF		3M		6	.6	3,475	3,454	193			86	2	12	2	5	3	90	38	9	117	1.01	29.5
DF		4M		1	1.7	332	326	18			100			49	14	30	8	21	7	35	0.58	9.3
DF Totals				99	.5	57,407	57,138	3,200		6	13	82	0	1	1	98	38	16	475	2.40	120.3	
WH		3M		100		189	189	11		100						100	40	7	70	0.41	2.7	
WH Totals				0		189	189	11		100						100	40	7	70	0.41	2.7	
NF		2M		90	1.7	496	487	27				100				100	40	22	860	3.68	.6	
NF		3M		10		51	51	3		100						100	40	11	180	1.31	.3	
NF Totals				1	1.6	547	538	30		9		91				100	40	18	633	2.89	.8	
Totals					0.5	58,143	57,865	3,240		6	12	82	0	1	1	98	38	16	467	2.35	123.8	

Log Stock Table - MBF

T03N R05W S19 Ty00MC 45.00
T03N R05W S19 Ty00MC 11.00

Project: CORNPOWO
Acres 56.00

Page 2
Date 7/24/2019
Time 9:34:04AM

S T Spp	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+	
WH		Totals		11		11	.3			11										
NF		2M 40		28	1.7	27	90.5						10		18					
NF		3M 40		3		3	9.5				3									
NF		Totals		31	1.6	30	.9				3		10		18					
Total		All Species		3,256		3,240	100.0			46	75	76	100	196	640	1096	924		86	

TC		PSTNDSUM		Stand Table Summary										Page		1	
														Date:		7/24/2019	
T03N R05W S19 Ty00MC 45.00				Project CORNPOWO										Time:		9:32:50AM	
				Acres 45.00										Grown Year:			
S Spec 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	24	3	89	139	2.122	6.67	6.37	51.6	233.3	9.36	328	1,485	421	148	67		
DF	25	2	89	140	1.304	4.44	3.91	55.0	255.0	6.13	215	997	276	97	45		
DF	27	4	90	148	2.236	8.89	6.71	69.3	350.0	13.24	464	2,347	596	209	106		
DF	28	10	89	149	5.197	22.22	16.11	71.1	353.9	32.64	1,145	5,701	1,469	515	257		
DF	29	8	89	151	3.876	17.78	12.60	74.0	380.0	26.55	932	4,787	1,195	419	215		
DF	30	9	89	150	4.074	20.00	12.22	85.5	438.1	29.77	1,045	5,356	1,340	470	241		
DF	31	3	89	154	1.272	6.67	3.82	94.7	500.0	10.30	361	1,908	464	163	86		
DF	32	11	88	152	4.377	24.44	13.13	97.8	506.7	36.59	1,284	6,653	1,646	578	299		
DF	33	9	89	153	3.367	20.00	10.85	98.9	517.9	30.58	1,073	5,620	1,376	483	253		
DF	34	8	89	159	2.820	17.78	9.16	107.1	590.4	27.96	981	5,410	1,258	442	243		
DF	35	9	87	162	2.993	20.00	10.31	106.4	587.1	31.26	1,097	6,053	1,407	494	272		
DF	36	4	88	164	1.258	8.89	4.72	106.2	594.0	14.27	501	2,801	642	225	126		
DF	37	2	88	180	.595	4.44	2.38	113.0	650.0	7.66	269	1,548	345	121	70		
DF	38	5	86	173	1.411	11.11	5.36	119.2	670.0	18.21	639	3,592	819	287	162		
DF	39	2	87	179	.536	4.44	2.14	124.0	710.0	7.57	266	1,522	341	120	68		
DF	40	1	87	181	.255	2.22	1.02	134.2	755.0	3.90	137	769	175	62	35		
DF	42	1	87	170	.231	2.22	.92	140.0	805.0	3.69	129	744	166	58	33		
DF	Totals	91	89	154	37.922	202.22	121.73	89.3	470.7	309.66	10,865	57,292	13,935	4,889	2,578		
NF	34	1	88	159	.352	2.22	1.06	115.7	633.3	2.94	122	670	132	55	30		
NF	Totals	1	88	159	.352	2.22	1.06	115.7	633.3	2.94	122	670	132	55	30		
WH	11	1	90	79	3.367	2.22	3.37	16.3	70.0	1.75	55	236	79	25	11		
WH	Totals	1	90	79	3.367	2.22	3.37	16.3	70.0	1.75	55	236	79	25	11		
Totals		93	89	148	41.642	206.67	126.15	87.5	461.3	314.35	11,042	58,197	14,146	4,969	2,619		

TC PSTATS			PROJECT STATISTICS					PAGE 1				
			PROJECT		CORNPOW		DATE 7/24/2019					
TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt			
03N	05	19	00A1	00MC	45.00	18	93	S	W			
			PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES					
TOTAL			18	93	5.2							
CRUISE			18	93	5.2	1,874	5.0					
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			91	37.9	31.3	154	36.2	202.2	57,557	57,292	10,865	10,865
WHEMLOCK			1	3.4	11.0	79	0.7	2.2	236	236	55	55
NOB FIR			1	.4	34.0	159	0.4	2.2	680	670	122	122
TOTAL			93	41.6	30.2	148	37.6	206.7	58,473	58,197	11,042	11,042
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			34.5	3.6	1,579	1,638	1,697					
WHEMLOCK												
NOB FIR												
TOTAL			35.9	3.7	1,564	1,624	1,684	51	13	6		
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			29.1	3.0	298	307	316					
WHEMLOCK												
NOB FIR												
TOTAL			30.7	3.2	295	304	314	38	9	4		
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			30.4	7.4	35	38	41					
WHEMLOCK			424.3	102.8		3	7					
NOB FIR			424.3	102.8		0	1					
TOTAL			42.2	10.2	37	42	46	75	19	8		
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			25.8	6.3	190	202	215					
WHEMLOCK			424.3	102.8		2	5					
NOB FIR			424.3	102.8		2	5					
TOTAL			25.9	6.3	194	207	220	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			
DOUG FIR			28.3	6.9	53,364	57,292	61,219					
WHEMLOCK			424.3	102.8		236	478					
NOB FIR			424.3	102.8		670	1,358					
TOTAL			28.4	6.9	54,193	58,197	62,201	34	9	4		
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			27.1	6.6	10,153	10,865	11,578					
WHEMLOCK			424.3	102.8		55	111					

Area 1

TC PSTATS				PROJECT STATISTICS				PAGE	2
				PROJECT CORNPOW				DATE	7/24/2019
TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
03N	05	19	00A1	00MC	45.00	18	93	S	W
CL	68.1	COEFF		NET CUFT FT/ACRE			# OF PLOTS REQ.	INF. POP.	
SD:	1.00	VAR.		LOW	AVG	HIGH	5	10	15
NOB FIR		424.3	102.8		122	248			
TOTAL		27.1	6.6	10,318	11,042	11,767	31	8	3

Species, Sort Grade - Board Foot Volumes (Project)

T03N R05W S19 Ty00MC 45.00

Project: CORNPOWO

Page 1

Acres 45.00

Date 7/24/2019

Time 9:32:49AM

S Spp	So Gr T rt ad	% Net BdFt	Bd. Ft. per Acre Def% Gross Net			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	2M	93	.5	54,054	53,805	2,421			13	87				100	40	19	657	2.94	81.9
DF	3M	6	.3	3,168	3,158	142		98	2		1	4	5	90	38	8	103	0.95	30.7
DF	4M	1	2.1	336	329	15		100			37	17	37	9	22	7	36	0.57	9.1
DF	Totals	98	.5	57,557	57,292	2,578		6	13	81	0	0	0	99	38	16	471	2.34	121.7
WH	3M	100		236	236	11		100						100	40	7	70	0.41	3.4
WH	Totals	0		236	236	11		100						100	40	7	70	0.41	3.4
NF	2M	90	1.7	617	606	27				100				100	40	22	860	3.68	.7
NF	3M	10		63	63	3		100						100	40	11	180	1.31	.4
NF	Totals	1	1.6	680	670	30		9		91				100	40	18	633	2.89	1.1
Totals			0.5	58,473	58,197	2,619		6	13	81	0	0	0	99	38	15	461	2.29	126.2

Log Stock Table - MBF

T03N R05W S19 Ty00MC 45.00

Project: CORNPOWO
Acres 45.00Page 1
Date 7/24/2019
Time 9:32:48AM

Spp	S T	So Gr rt 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+
DF		2M	40	2,432		2,421	93.9					61		189	500	932	721	19	
DF		3M	19	1		1	.0					1							
DF		3M	20	1		1	.0				1								
DF		3M	21	1		1	.0				1								
DF		3M	24	2		2	.1				2								
DF		3M	26	1		1	.0					1							
DF		3M	27	1		1	.0				1								
DF		3M	28	2		2	.1				2								
DF		3M	34	3		3	.1			1	1								
DF		3M	35	4		4	.2			4									
DF		3M	37	1		1	.1			1									
DF		3M	38	10		10	.4			5	5								
DF		3M	39	5		5	.2			3	2								
DF		3M	40	112		112	4.3			8	49	52	3						
DF		4M	12	1		1	.0			0	1								
DF		4M	13	1		1	.0			0	0								
DF		4M	14	1		1	.0			0	1								
DF		4M	16	0		0	.0				0								
DF		4M	17	2		2	.1				2								
DF		4M	22	1		1	.0				1								
DF		4M	30	1		1	.0			1									
DF		4M	33	3	11.0	3	.1			3									
DF		4M	34	1		1	.1			1									
DF		4M	35	1		1	.1			1									
DF		4M	36	1		1	.1			1									
DF		Totals		2,590		2,578	98.4			32	68	54	65	189	500	932	721	19	
WH		3M	40	11		11	100.0			11									
WH		Totals		11		11	.4			11									
NF		2M	40	28	1.7	27	90.5							10		18			
NF		3M	40	3		3	9.5					3							
NF		Totals		31	1.6	30	1.2					3		10		18			
Total		All Species		2,631		2,619	100.0			43	68	56	65	189	510	932	739	19	

TC PSTNDSUM		Stand Table Summary										Page Date:		1 7/24/2019	
T03N R05W S19 Ty00MC 11.00					Project CORNPOWO					Time: 9:33:30AM					
					Acres 11.00					Grown Year:					
S Spec T	Tot			Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals			
	Sample DBH	FF 16'	Av Ht				Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF	
DF	22	1	88	153	3.788	10.00	11.36	46.4	220.0	15.04	528	2,500	165	58	28
DF	29	1	88	186	2.180	10.00	8.72	69.1	367.5	17.17	602	3,205	189	66	35
DF	30	1	86	158	2.037	10.00	6.11	86.4	426.7	15.04	528	2,608	165	58	29
DF	32	2	86	161	3.581	20.00	12.53	86.9	445.7	31.04	1,089	5,586	341	120	61
DF	33	3	85	173	5.051	30.00	18.52	89.5	458.2	47.22	1,657	8,485	519	182	93
DF	34	2	84	168	3.172	20.00	11.10	97.4	498.6	30.82	1,081	5,535	339	119	61
DF	35	1	83	163	1.497	10.00	5.99	89.0	452.5	15.19	533	2,709	167	59	30
DF	37	1	84	154	1.339	10.00	4.02	111.5	613.3	12.76	448	2,464	140	49	27
DF	38	2	84	168	2.539	20.00	10.16	107.5	571.2	31.11	1,092	5,803	342	120	64
DF	39	1	84	173	1.205	10.00	4.82	116.6	640.0	16.03	562	3,086	176	62	34
DF	40	1	81	170	1.146	10.00	4.58	120.4	635.0	15.72	552	2,911	173	61	32
DF	43	1	84	184	.992	10.00	3.97	148.9	837.5	16.83	591	3,322	185	65	37
DF	45	1	82	144	.905	10.00	2.72	179.8	856.7	13.92	488	2,327	153	54	26
DF	46	1	81	172	.866	10.00	3.47	157.8	850.0	15.59	547	2,946	172	60	32
DF	47	1	81	174	.830	10.00	3.32	168.7	910.0	15.97	560	3,021	176	62	33
DF	Totals	20	85	166	31.130	200.00	111.39	97.5	507.3	309.45	10,858	56,508	3,404	1,194	622
Totals		20	85	166	31.130	200.00	111.39	97.5	507.3	309.45	10,858	56,508	3,404	1,194	622

TC PSTATS			PROJECT STATISTICS					PAGE	1		
			PROJECT		CORNPOW		DATE 7/24/2019				
TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt		
03N	05	19	00A2	00MC	11.00	4	20	S	W		
			PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES				
TOTAL			4	20	5.0						
CRUISE			4	20	5.0	342	5.8				
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			20	31.1	34.3	166	34.1	200.0	56,790	56,508	10,858
TOTAL			20	31.1	34.3	166	34.1	200.0	56,790	56,508	10,858
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			36.9	8.5	1,892	2,067	2,242				
TOTAL			36.9	8.5	1,892	2,067	2,242	57	14	6	
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			34.5	7.9	363	394	426				
TOTAL			34.5	7.9	363	394	426	50	13	6	
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			36.9	21.1	25	31	38				
TOTAL			36.9	21.1	25	31	38	71	18	8	
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			16.3	9.3	181	200	219				
TOTAL			16.3	9.3	181	200	219	14	3	2	
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			17.1	9.8	50,991	56,508	62,025				
TOTAL			17.1	9.8	50,991	56,508	62,025	15	4	2	
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			18.4	10.5	9,717	10,858	11,999				
TOTAL			18.4	10.5	9,717	10,858	11,999	18	4	2	

Area 2

TC		PSPCSTGR		Species, Sort Grade - Board Foot Volumes (Project)																			
<div>T03N R05W S19 Ty00MC11.00</div>				Project: CORNPOWO														Page 1					
				Acres 11.00														Date 7/24/2019					
																		Time 9:33:29AM					
Spp	S T	So rt	Gr 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	24		0.00	3.0		
DF			2M	91	.4	51,743	51,524	567				13	87		2	3	95	40	19	672	3.16	76.7	
DF			3M	8	1.3	4,732	4,669	51			52	2	47		4	6		89	35	10	191	1.37	24.5
DF			4M	1		315	315	3			100			100				16	8	31	0.61	10.2	
DF Totals				100	.5	56,790	56,508	622		5	12	84		1	3	2	94	36	17	494	2.67	114.4	
Totals					0.5	56,790	56,508	622		5	12	84		1	3	2	94	36	17	494	2.67	114.4	

TC PLOGSTVB		Log Stock Table - MBF																		
T03N R05W S19 Ty00MC 11.00					Project: CORNPOWO Acres 11.00										Page 1 Date 7/24/2019 Time 9:33:29AM					
Spp	S T	So rt	Gr de	Log Len	Gross MBF	Def %	Net MBF	% Spe	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+
DF		2M	28		14		14	2.3										14		
DF		2M	32		15		15	2.4										15		
DF		2M	36		3		3	.5					3							
DF		2M	40		537		535	86.0					31	8	131	156	157	52		
DF		3M	16		1		1	.1				1								
DF		3M	18		2		2	.3				1	1							
DF		3M	28		2		2	.3			1	1								
DF		3M	30		1		1	.2		1										
DF		3M	36		2		2	.3				2								
DF		3M	40		45	1.6	44	7.1		3	3	15				8		16		
DF		4M	12		0		0	.1			0									
DF		4M	14		1		1	.1			1									
DF		4M	16		1		1	.2			1									
DF		4M	18		1		1	.1			1									
DF		4M	20		1		1	.1			1									
DF		Totals			625		622	100.0		4	7	19	35	8	131	164	186	68		
Total		All Species			625		622	100.0		4	7	19	35	8	131	164	186	68		

TC		PSTNDSUM		Stand Table Summary										Page		1		
														Date:		7/24/2019		
<div>T03N R05W S19 Ty00MC 45.00</div> <div>T03N R05W S19 Ty00MC 11.00</div>				Project CORNPOWO										Time:		9:34:06AM		
				Acres 56.00										Grown Year:				
S Spe T				Tot						Average Log		Net		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	22	1	88	153	.744	1.96	2.23	46.4	220.0	2.95	104	491	165	58	28			
DF	24	3	89	139	1.705	5.36	5.12	51.6	233.3	7.52	264	1,194	421	148	67			
DF	25	2	89	140	1.048	3.57	3.14	55.0	255.0	4.92	173	801	276	97	45			
DF	27	4	90	148	1.796	7.14	5.39	69.3	350.0	10.64	373	1,886	596	209	106			
DF	28	10	89	149	4.176	17.86	12.95	71.1	353.9	26.22	920	4,581	1,469	515	257			
DF	29	9	89	156	3.543	16.25	11.83	73.3	378.2	24.71	867	4,476	1,384	486	251			
DF	30	10	89	151	3.674	18.04	11.02	85.6	436.9	26.88	943	4,816	1,505	528	270			
DF	31	3	89	154	1.022	5.36	3.07	94.7	500.0	8.28	290	1,533	464	163	86			
DF	32	13	88	153	4.220	23.57	13.01	95.7	495.1	35.50	1,246	6,443	1,988	697	361			
DF	33	12	88	158	3.698	21.96	12.36	96.1	500.3	33.84	1,188	6,183	1,895	665	346			
DF	34	10	88	161	2.889	18.21	9.54	104.9	569.4	28.53	1,001	5,435	1,597	560	304			
DF	35	10	87	162	2.699	18.04	9.46	104.2	570.4	28.10	986	5,396	1,574	552	302			
DF	36	4	88	164	1.011	7.14	3.79	106.2	594.0	11.46	402	2,251	642	225	126			
DF	37	3	87	170	.741	5.54	2.70	112.5	639.3	8.67	304	1,728	485	170	97			
DF	38	7	85	172	1.632	12.86	6.30	115.5	638.7	20.74	728	4,026	1,161	408	225			
DF	39	3	86	177	.667	5.54	2.67	121.4	685.2	9.23	324	1,829	517	181	102			
DF	40	2	84	175	.430	3.75	1.72	127.0	692.1	6.22	218	1,190	348	122	67			
DF	42	1	87	170	.186	1.79	.74	140.0	805.0	2.96	104	598	166	58	33			
DF	43	1	84	184	.195	1.96	.78	148.9	837.5	3.31	116	653	185	65	37			
DF	45	1	82	144	.178	1.96	.53	179.8	856.7	2.73	96	457	153	54	26			
DF	46	1	81	172	.170	1.96	.68	157.8	850.0	3.06	107	579	172	60	32			
DF	47	1	81	174	.163	1.96	.65	168.7	910.0	3.14	110	593	176	62	33			
DF	Totals	111	88	156	36.588	201.79	119.70	90.8	477.4	309.62	10,864	57,138	17,339	6,084	3,200			
NF	34	1	88	159	.283	1.79	.85	115.7	633.3	2.36	98	538	132	55	30			
NF	Totals	1	88	159	.283	1.79	.85	115.7	633.3	2.36	98	538	132	55	30			
WH	11	1	90	79	2.706	1.79	2.71	16.3	70.0	1.41	44	189	79	25	11			
WH	Totals	1	90	79	2.706	1.79	2.71	16.3	70.0	1.41	44	189	79	25	11			
Totals		113	88	150	39.577	205.36	123.25	89.3	469.5	313.39	11,006	57,865	17,550	6,163	3,240			

TIMBER SALE SUMMARY
Corner Pocket
Contract No. FG-341-2020-W00229-01

1. **Location:** Portions of Section 28, T3N, R5W, W.M., Washington County, Oregon.
2. **Type of Sale:** This Timber Sale is 56 net acres of Modified Clearcut comprised of two areas. The timber will be sold on a recovery basis at a sealed bid auction.
3. **Revenue Distribution:** 100% BOF; 100% 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 July of 2019. For more information see Cruise Report.
6. **Timber Description:** The Timber Sale Area consists of a well-stocked 88 year old Douglas-fir stand with minor amounts of western hemlock and noble fir. The stand has an average of 205 ft² of basal area (all species), an average Douglas-fir DBH of 32 inches, and an estimated average net Douglas-fir volume of approximately 56 MBF per acre.
7. **Topography and Logging Method:** Slopes within the Timber Sale Area ranges from 2% to 35% and variable in southern aspect. The Timber Sale is 100% ground-based yarding. The average horizontal skid trail length is approximately 600 feet and the maximum is approximately 980 feet.
8. **Access:** Travel from Forest Grove 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 1.8 miles. Turn right on Ingersoll Road and through a STATE gate. In 0.7 miles you will arrive at Area 2. Continue for 0.27 miles to Area 1.

VOLUME SUMMARY
 Volumes in MBF
Corner Pocket
FG-341-2020-W00229-01

July 2019

AREA 1: MC (45 ACRES)

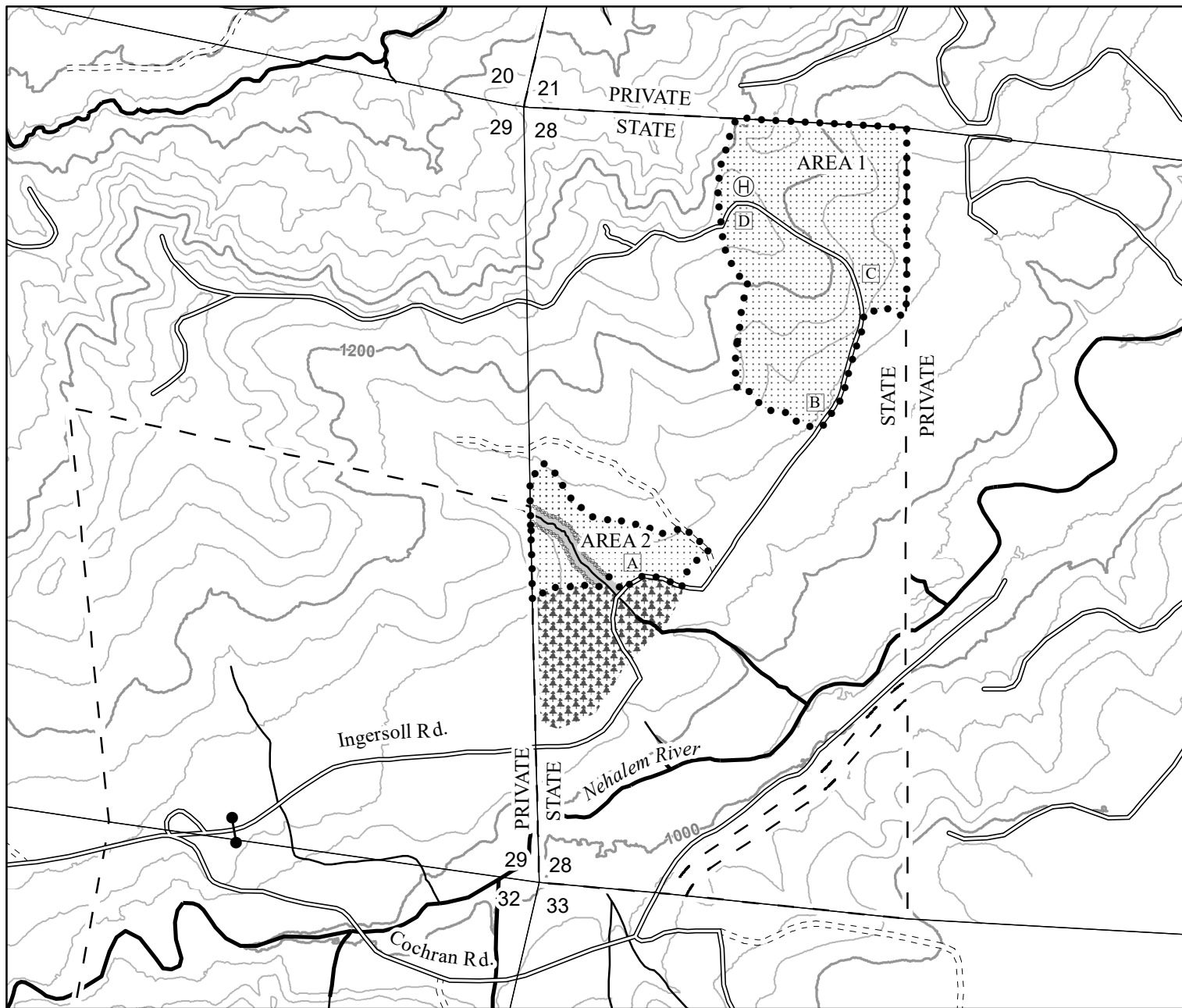
SPECIES		2 SAW	3 SAW	4 SAW	TOTAL
Douglas-fir	Cruise Volume	2,421	142	15	2,578
	Hidden D&B (2%)	(48)	(3)	(0)	(51)
	NET TOTAL	2,373	139	15	2,527
	% of Total	94	5	1	

AREA 2: MC (11 ACRES)

SPECIES		2 SAW	3 SAW	4 SAW	TOTAL
Douglas-fir	Cruise Volume	567	51	3	621
	Hidden D&B (2%)	(11)	(1)	(0)	(12)
	NET TOTAL	556	50	3	609
	% of Total	91	8	1	

SALE TOTAL

SPECIES		2 SAW	3 SAW	4 SAW	TOTAL
Douglas-fir		2,929	189	18	3,136
Total		2,929	189	18	3,136



Legend

- Timber Sale Boundary
- Stream Buffer Boundary
- |_| ODF Ownership Boundary
- ==== Surfaced Roads
- Unsurfaced Roads
- Type-F Stream
- Type-N Stream
- Stream Buffer
- Tactor Yarding Area
- Tractor Landing
- Green Tree Retention Area
- ⊕ Helispot
- Gate
- Section Lines
- 40 Foot Contour Band
- 200 Foot Contour Band

LOGGING PLAN

FOR TIMBER SALE CONTRACT # FG-341-2020-W00229-01
 CORNER POCKET
 PORTIONS OF SECTIONS 28 & 29, T3N, R5W, W.M.,
 WASHINGTON COUNTY, OREGON

Forest Grove District GIS

July, 2019

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
AREA 1	45	0
AREA 2	11	0
TOTAL	56	0