



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
TRASK FLATS
Sale FG-341-2021-W00521-01

District: Forest Grove

Date: November 04, 2020

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$3,250,383.10	\$0.00	\$3,250,383.10
		Project Work:	\$0.00
		Advertised Value:	\$3,250,383.10



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District: Forest Grove

Date: November 04, 2020

Timber Description

Location: Portions of Sections 22, 23 & 27, T1S, R6W, W.M.
Washington County, Oregon

Stand Stocking: 20%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	20	0	98

Volume by Grade	2S	3S & 4S 6"-11"	Total
Douglas - Fir	4,551	1,451	6,002
Total	4,551	1,451	6,002

Comments: Pond Values Used: Local Pond Values, September 2020.

Western redcedar and Other Cedars Stumpage Price = Pond Value minus Logging Cost:
 $\$858.56/\text{MBF} = \$1,125/\text{MBF} - (\$216.44/\text{MBF} + \$50/\text{MBF} \text{ additional haul})$

Western hemlock and Other Conifers Stumpage Price = Pond Value minus Logging Cost:
 $\$361.56/\text{MBF} = \$578/\text{MBF} - \$216.44/\text{MBF}$

Red Alder and Other Hardwoods Stumpage Price = Pond Value minus Logging Cost:
 $\$317.56/\text{MBF} = \$534/\text{MBF} - \$216.44/\text{MBF}$

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:
 $25 \text{ hours} \times \$150/\text{hour} = \$3,750$
Machine Time to Pile Landing Slash:
 $25 \text{ hours} \times \$150/\text{hour} = \$3,750$
Equipment Cleaning: 3 pieces $\times$ \$1,000/Piece = \$3,000
Slash Treatment: 80 acres $\times$ \$200/acre = \$16,000
Stream Enhancement Costs: 8 hours $\times$ \$150/hour = \$1,200/Structure. \$1,200/Structure $\times$ 10 Structures = \$12,000
Subsurface Pipeline Easement Brushing = \$45/Hour $\times$ 32 Hours = \$1,440
Dirt Non-Project Road Construction: 6 Stations @ \$100/Station = \$600
Road Maintenance & Rockwear Fee: 4.33 miles Turner Creek Road (2-5-10), 1.61 miles Barney Res Road (2-6-36.0)=5.94 total miles. Utilizing BLM Road Maintenance Fee Schedule – Section C-Other Road Users, effective January 1, 2020
Non-BST surface, maint fee: \$1.22/MBF/Mile
Non-BST surface, rock wear fee: \$.90/MBF/Mile Total \$2.12/MBF/Mile Total: 6,002 MBF $\times$ 5.94 miles $\times$ \$2.12 = \$75,582

TOTAL Other Costs (No Profit & Risk added) = \$116,122

ROAD MAINTENANCE
General Road Maintenance (Includes: Move-in, Grading, Rolling, Spot rocking): 4.18 miles $\times$ \$3,015.75 = \$12,605.83
TOTAL Road Maintenance: \$12,605.83/6,002MBF = \$2.10/MBF



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Logging Conditions

Combination#: 1	Douglas - Fir	88.42%
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:	12	bd. ft / load: 4600
cost / mbf:	\$57.46	
machines:	Stroke Delimber (B)	

Combination#: 2	Douglas - Fir	11.58%
Logging System:	Cable: Small Tower <=40	Process: Stroke Delimber
yarding distance:	Short (400 ft)	downhill yarding: No
tree size:	Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF	
loads / day:	8	bd. ft / load: 4600
cost / mbf:	\$152.17	
machines:	Log Loader (A) Stroke Delimber (A) Tower Yarder (Small)	



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
TRASK FLATS
Sale FG-341-2021-W00521-01

District: Forest Grove

Date: November 04, 2020

Logging Costs

Operating Seasons: 2.00	Profit Risk: 10%
Project Costs: \$0.00	Other Costs (P/R): \$0.00
Slash Disposal: \$0.00	Other Costs: \$116,122.00

Miles of Road

Road Maintenance: \$2.10

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	4.6



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Timber Sale Appraisal
TRASK FLATS
Sale FG-341-2021-W00521-01

District: Forest Grove

Date: November 04, 2020

Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
Douglas - Fir									
\$68.42	\$2.14	\$1.46	\$105.33	\$0.00	\$17.74	\$0.00	\$2.00	\$19.35	\$216.44

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$757.99	\$541.55	\$0.00



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
TRASK FLATS
Sale FG-341-2021-W00521-01

District: Forest Grove

Date: November 04, 2020

Summary

Amortized

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

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	6,002	\$541.55	\$3,250,383.10

Gross Timber Sale Value

Recovery: \$3,250,383.10

Prepared By: Mark Savage

Phone: 503-359-7437

TIMBER SALE SUMMARY
Trask Flats
FG-341-2021-W00521-01

1. **Location:** Portions of Sections 22, 23 and 27, T1S, R6W, W.M., Washington County, Oregon.
2. **Type of Sale:** This Timber Sale is 181 net acres of Modified Clearcut. 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 September of 2020. For more information, see Cruise Report.
6. **Timber Description:** The Timber Sale Area consists of a well-stocked, partially thinned 60-year old Douglas-fir stand with minor amounts of western hemlock. The stands have an average of 168 ft² of basal area, an average Douglas-fir DBH of 20 inches, and an estimated average net Douglas-fir volume of approximately 33.3 MBF per acre.
7. **Topography and Logging Method:** Slopes within the Timber Sale Area range from 5% to 80% with a mainly southern aspect in Unit 1 and southeastern aspect in Unit 2. Unit 1 is 84% ground-based yarding and 16% cable-based yarding. Unit 2 is 94% ground-based yarding and 6% cable-based yarding. The average cable corridor length maximum cable corridor length is approximately 300 feet and the maximum is approximately 900 feet. The average horizontal skid trail length is approximately 300 feet and the maximum is approximately 600 feet.
8. **Access:** All access to the Timber Sale Area is on surfaced all-weather roads. From Forest Grove, proceed south on Highway 47 for 15 miles. Turn right onto Pike Road and continue for 4.5 miles. Pike Road then becomes Turner Creek Road. Continue down Turner Creek Road for 4 miles and there is a Weyerhaeuser gate that requires a key. Continue through this gate on Turner Creek Road for 4.5 miles. Turn right onto North Fork Trask River Road and continue for 1.5 miles and there is a Weyerhaeuser gate that requires a key. Continue through this gate on North Fork Trask River Road for 3.6 miles to reach the eastern portion of Unit 1. Continue on North Fork River Road for 0.8 miles and turn right onto Sunday Creek Road. Continue on Sunday Creek Road for 0.8 miles to access the southern portion of Unit 2.
9. **Projects:** No Project Work

CRUISE REPORT
Trask Flats
FG-341-2021-W00521-01

1. LOCATION: Portions of Sections 22, 23 & 27, T1S, R6W, 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 50%. 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 September 2020 with 31 variable radius grade plots using a 40 BAF prism. Plots were laid out on a 5 chain x 10 chain grid in Unit 1 and plots were laid out on a 10 chain x 5 chain grid in Unit 2. Plots falling on or near existing roads or no-harvest areas were offset 1 chain.

4. CRUISE RESULTS:

130 trees were measured and graded producing a cumulative Sampling Error of 8.6% on the Douglas-fir basal area and 8.8% for the Douglas-fir net 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.

6. 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.

7. CRUISERS: The sale was cruised by ODF cruiser Adrian Torres and Mark Savage.

Prepared by: Adrian Torres 10/28/2020
Date

Reviewed by: Mark Savage 11/1/2020
Date

TC PSTATS				PROJECT STATISTICS				PAGE	1		
				PROJECT	TRASKRAW			DATE	10/1/2020		
TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt	
01S	06	22	00U1	00MC		100.00	16	69	S	W	
			PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES				
TOTAL			16	69	4.3						
CRUISE			16	69	4.3	8,487	.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			69	84.9	19.3	101	39.3	172.5	34,478	34,390	7,432
TOTAL			69	84.9	19.3	101	39.3	172.5	34,478	34,390	7,432
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		74.0	8.9	754	828	901					
TOTAL		74.0	8.9	754	828	901		219	55	24	
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		65.1	7.8	158	172	185					
TOTAL		65.1	7.8	158	172	185		169	42	19	
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		92.0	23.7	65	85	105					
TOTAL		92.0	23.7	65	85	105		360	90	40	
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		42.9	11.1	153	173	192					
TOTAL		42.9	11.1	153	173	192		79	20	9	
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		50.9	13.1	29,873	34,390	38,906					
TOTAL		50.9	13.1	29,873	34,390	38,906		110	28	12	
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		43.8	11.3	6,593	7,432	8,272					
TOTAL		43.8	11.3	6,593	7,432	8,272		82	20	9	

TC		PSPCSTGR		Species, Sort Grade - Board Foot Volumes (Project)																
T01S R06W S22 Ty00MC100.00				Project: TRASKRAW												Page 1				
				Acres 100.00												Date 10/1/2020				
																Time 12:14:38PM				
S So Gr		%	Bd. Ft. per Acre			Total	Percent of Net Board Foot Volume								Average Log				Logs	
Spp	T rt ad	Net	Def%	Gross	Net		Net MBF	Log Scale Dia.				Log Length				Ln	Dia	Bd	CF/	Per
								4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99					
DF	2M	77	.3	26,828	26,739	2,674			37	63				100	40	17	476	2.36	56.2	
DF	3M	18		5,958	5,958	596		98	2			0	3	96	39	8	104	0.73	57.3	
DF	4M	5		1,693	1,693	169		100			34	35	8	23	22	6	29	0.38	58.5	
DF Totals		100	.3	34,478	34,390	3,439		22	29	49	2	2	1	96	34	10	200	1.29	172.0	
Totals			0.3	34,478	34,390	3,439		22	29	49	2	2	1	96	34	10	200	1.29	172.0	

TC		PSTNDSUM		Stand Table Summary									Page		1		
													Date:		10/1/2020		
T01S R06W S22 Ty00MC					100.00		Project		TRASKRAW			Time:		12:14:38PM			
					Acres		100.00			Grown Year:							
S Sp	T	Tot			Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	T o t a l s				
		DBH	Sample Trees	FF 16'				Av Ht	Net Cu.Ft.				Net Bd.Ft.	Tons	Cunits	MBF	
DF		8	3	84	57	21.486	7.50	21.49	4.0	20.0	2.46	86	430	246	86	43	
DF		10	1	88	101	4.584	2.50	4.58	12.8	60.0	1.67	59	275	167	59	28	
DF		12	1	88	86	3.183	2.50	6.37	10.7	40.0	1.93	68	255	193	68	25	
DF		13	1	89	81	2.712	2.50	5.42	13.3	55.0	2.05	72	298	205	72	30	
DF		14	1	86	106	2.339	2.50	4.68	18.4	80.0	2.46	86	374	246	86	37	
DF		15	3	87	77	6.112	7.50	10.19	19.4	68.0	5.63	197	693	563	197	69	
DF		16	2	87	119	3.581	5.00	8.95	21.8	96.0	5.55	195	859	555	195	86	
DF		17	1	85	114	1.586	2.50	3.17	29.1	120.0	2.63	92	381	263	92	38	
DF		18	2	86	104	2.829	5.00	5.66	31.6	122.5	5.09	179	693	509	179	69	
DF		19	3	86	122	3.809	7.50	8.89	33.9	132.9	8.57	301	1,181	857	301	118	
DF		20	4	86	114	4.584	10.00	10.31	38.5	148.9	11.33	398	1,536	1,133	398	154	
DF		21	2	88	136	2.079	5.00	6.24	37.9	180.0	6.73	236	1,123	673	236	112	
DF		22	3	85	117	2.841	7.50	6.63	45.9	185.7	8.66	304	1,231	866	304	123	
DF		23	2	88	134	1.733	5.00	5.20	43.6	191.7	6.46	227	996	646	227	100	
DF		24	3	87	131	2.387	7.50	7.16	48.1	211.1	9.82	345	1,512	982	345	151	
DF		25	3	87	134	2.200	7.50	6.60	53.6	242.2	10.08	354	1,599	1,008	354	160	
DF		26	3	86	131	2.034	7.50	6.10	57.7	254.4	10.04	352	1,553	1,004	352	155	
DF		27	2	87	135	1.258	5.00	3.77	62.4	283.3	6.71	236	1,069	671	236	107	
DF		28	3	90	140	1.754	7.50	5.26	70.5	347.8	10.57	371	1,830	1,057	371	183	
DF		29	6	87	137	3.270	15.00	9.81	74.0	357.2	20.69	726	3,505	2,069	726	350	
DF		30	3	89	143	1.528	7.50	4.58	85.4	435.6	11.16	392	1,996	1,116	392	200	
DF		31	6	89	139	2.862	15.00	8.59	85.2	413.9	20.84	731	3,553	2,084	731	355	
DF		32	2	87	143	.895	5.00	2.69	94.0	466.7	7.20	253	1,253	720	253	125	
DF		33	1	89	147	.421	2.50	1.26	105.0	520.0	3.78	133	657	378	133	66	
DF		34	1	89	147	.397	2.50	1.19	110.9	590.0	3.76	132	702	376	132	70	
DF		35	3	89	147	1.123	7.50	3.37	116.3	620.0	11.17	392	2,088	1,117	392	209	
DF		37	1	81	129	.335	2.50	1.00	110.7	490.0	3.17	111	492	317	111	49	
DF		38	3	90	150	.952	7.50	2.86	142.5	790.0	11.60	407	2,257	1,160	407	226	
DF		Totals		69	86	101	84.872	172.50	172.02	43.2	199.9	211.82	7,432	34,390	21,182	7,432	3,439
Totals				69	86	101	84.872	172.50	172.02	43.2	199.9	211.82	7,432	34,390	21,182	7,432	3,439

TC PLOGSTVB		Log Stock Table - MBF																	
T01S R06W S22 Ty00MC 100.00				Project: TRASKRAW Acres 100.00												Page 1 Date 10/1/2020 Time 12:14:38PM			
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	2,683		2,674	77.8					319	342	826	800	387			
DF		3M	23	2		2	.1			2									
DF		3M	33	3		3	.1			3									
DF		3M	34	7		7	.2			7									
DF		3M	35	10		10	.3			10									
DF		3M	36	9		9	.3			9									
DF		3M	37	4		4	.1			4									
DF		3M	38	7		7	.2			7									
DF		3M	39	7		7	.2			3	3								
DF		3M	40	548		548	15.9			112	168	253	15						
DF		4M	12	5		5	.2			5									
DF		4M	13	4		4	.1			4									
DF		4M	14	5		5	.2			5									
DF		4M	15	1		1	.0			1									
DF		4M	16	14		14	.4			14									
DF		4M	18	29		29	.8			29									
DF		4M	21	15		15	.4			15									
DF		4M	22	2		2	.1			2									
DF		4M	24	9		9	.3			9									
DF		4M	25	3		3	.1			3									
DF		4M	26	7		7	.2			7									
DF		4M	27	8		8	.2			8									
DF		4M	30	16		16	.5			16									
DF		4M	31	6		6	.2			6									
DF		4M	32	8		8	.2			8									
DF		4M	36	3		3	.1			3									
DF		4M	38	11		11	.3			11									
DF		4M	39	4		4	.1			4									
DF		4M	40	21		21	.6			13	4	5							
DF		Totals		3,448		3,439	100.0			312	180	258	334	342	826	800	387		
Total		All Species		3,448		3,439	100.0			312	180	258	334	342	826	800	387		

TC PSTATS			PROJECT STATISTICS						PAGE	1		
			PROJECT		TRASKRAW				DATE	10/1/2020		
TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt			
01S	06	11	00U2	00MC	81.00	15	61	S	W			
			PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES					
TOTAL			15	61	4.1							
CRUISE			15	61	4.1	5,747	1.1					
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			61	71.0	20.5	123	35.9	162.7	33,710	33,464	7,369	7,369
TOTAL			61	71.0	20.5	123	35.9	162.7	33,710	33,464	7,369	7,369
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			54.3	7.0	635	682	729					
TOTAL			54.3	7.0	635	682	729		118	29		13
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			50.4	6.4	138	148	157					
TOTAL			50.4	6.4	138	148	157		101	25		11
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			92.1	24.6	54	71	88					
TOTAL			92.1	24.6	54	71	88		363	91		40
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			53.8	14.4	139	163	186					
TOTAL			53.8	14.4	139	163	186		124	31		14
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			45.4	12.1	29,407	33,464	37,521					
TOTAL			45.4	12.1	29,407	33,464	37,521		88	22		10
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			48.1	12.8	6,422	7,369	8,316					
TOTAL			48.1	12.8	6,422	7,369	8,316		99	25		11

TC		PSPCSTGR		Species, Sort Grade - Board Foot Volumes (Project)																	
T01S R06W S11 Ty00MC81.00						Project: TRASKRAW										Page 1					
						Acres 81.00										Date 10/1/2020					
																Time 12:08:48PM					
S So Gr Spp T rt ad		% Net BdFt	Bd. Ft. per Acre			Total Net MBF	Percent of Net Board Foot Volume								Average Log				Logs Per /Acre		
		Def%	Gross	Net	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	73	.6	24,782	24,623	1,994	51 49				100				40	16	395	2.03	62.3		
DF	3M	23	.5	7,790	7,751	628	100				1 3 96				39	8	101	0.67	76.8		
DF	4M	4	4.3	1,138	1,089	88	100				35 34 18 12				21	6	27	0.36	40.2		
DF Totals		100	.7	33,710	33,464	2,711	26 37 36				1 1 1 96				35	10	187	1.16	179.2		
Totals			0.7	33,710	33,464	2,711	26 37 36				1 1 1 96				35	10	187	1.16	179.2		

TC		PSTNDSUM		Stand Table Summary										Page		1	
														Date:		10/1/2020	
T01S R06W S11 Ty00MC					81.00		Project		TRASKRAW				Time:		12:08:48PM		
					Acres		81.00				Grown Year:						
S Sp	T	DBH	Sample Trees	Tot FF 16'	Av Ht	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	T o t a l s			
									Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF	
DF		10	1	92	104	4.889	2.67	9.78	8.6	40.0	2.40	84	391	194	68	32	
DF		11	1	85	108	4.041	2.67	8.08	10.1	45.0	2.33	82	364	188	66	29	
DF		12	1	86	79	3.395	2.67	3.40	18.5	70.0	1.79	63	238	145	51	19	
DF		13	2	86	90	5.786	5.33	11.57	13.6	55.0	4.48	157	636	363	127	52	
DF		15	1	85	112	2.173	2.67	4.35	23.0	100.0	2.85	100	435	231	81	35	
DF		16	1	90	125	1.910	2.67	3.82	28.1	125.0	3.06	108	477	248	87	39	
DF		17	4	86	122	6.767	10.67	15.23	27.8	113.3	12.06	423	1,726	977	343	140	
DF		18	2	85	114	3.018	5.33	6.04	33.8	130.0	5.81	204	785	471	165	64	
DF		19	4	87	128	5.417	10.67	16.25	28.9	120.0	13.37	469	1,950	1,083	380	158	
DF		20	1	89	139	1.222	2.67	3.67	34.5	156.7	3.60	126	574	292	102	47	
DF		21	3	88	141	3.326	8.00	9.98	39.4	191.1	11.19	393	1,907	907	318	154	
DF		22	8	87	132	8.081	21.33	24.24	40.8	183.7	28.19	989	4,455	2,284	801	361	
DF		23	1	89	143	.924	2.67	2.77	47.3	216.7	3.74	131	601	303	106	49	
DF		24	4	88	146	3.395	10.67	10.19	52.5	242.5	15.25	535	2,470	1,235	433	200	
DF		25	4	88	139	3.129	10.67	9.39	56.0	262.5	14.98	526	2,464	1,213	426	200	
DF		26	3	87	133	2.170	8.00	6.51	58.2	264.4	10.80	379	1,721	875	307	139	
DF		27	3	88	140	2.012	8.00	6.04	64.0	291.1	11.00	386	1,757	891	313	142	
DF		28	3	87	147	1.871	8.00	5.61	71.5	337.8	11.43	401	1,896	926	325	154	
DF		29	4	85	134	2.325	10.67	6.98	71.2	325.8	14.15	497	2,273	1,146	402	184	
DF		30	4	87	148	2.173	10.67	6.52	84.6	415.8	15.72	552	2,711	1,274	447	220	
DF		31	3	83	137	1.526	8.00	4.58	82.2	383.3	10.72	376	1,755	868	305	142	
DF		32	2	86	146	.955	5.33	2.86	91.8	451.7	7.49	263	1,294	607	213	105	
DF		33	1	83	138	.449	2.67	1.35	93.1	433.3	3.57	125	584	290	102	47	
DF		Totals		61	87	123	70.957	162.67	179.19	41.1	186.8	210.02	7,369	33,464	17,012	5,969	2,711
Totals				61	87	123	70.957	162.67	179.19	41.1	186.8	210.02	7,369	33,464	17,012	5,969	2,711

TC PLOGSTVB		Log Stock Table - MBF																	
T01S R06W S11 Ty00MC				81.00		Project: TRASKRAW												Page 1	
						Acres 81.00												Date 10/1/2020	
																		Time 12:08:47PM	
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	2,007		1,994	73.6					347	461	721	465				
DF		3M	25	2		2	.1			2									
DF		3M	28	2		2	.1		2										
DF		3M	31	4		4	.2		2	2									
DF		3M	32	2		2	.1		2										
DF		3M	33	6		6	.2		3	3									
DF		3M	34	4		4	.2		4										
DF		3M	35	3		3	.1		3										
DF		3M	36	4		4	.2		4										
DF		3M	37	11		11	.4		11										
DF		3M	38	14		14	.5		14										
DF		3M	39	13		13	.5		13										
DF		3M	40	564		561	20.7		147	113	301								
DF		4M	12	1		1	.1		1										
DF		4M	13	8	50.0	4	.1		4										
DF		4M	14	2		2	.1		2										
DF		4M	15	7		7	.3		7										
DF		4M	16	2		2	.1		2										
DF		4M	17	10		10	.4		10										
DF		4M	18	5		5	.2		5										
DF		4M	21	6		6	.2		6										
DF		4M	22	2		2	.1		2										
DF		4M	23	4		4	.2		4										
DF		4M	24	2		2	.1		2										
DF		4M	25	3		3	.1		3										
DF		4M	26	4		4	.2		4										
DF		4M	27	2		2	.1		2										
DF		4M	28	5		5	.2		5										
DF		4M	29	3		3	.1		3										
DF		4M	31	3		3	.1		3										
DF		4M	33	8		8	.3		8										
DF		4M	35	4		4	.2		4										
DF		4M	40	11		11	.4		11										
DF		Totals		2,731		2,711	100.0		295	120	301	347	461	721	465				
Total		All Species		2,731		2,711	100.0		295	120	301	347	461	721	465				

TC PSTATS					PROJECT STATISTICS				PAGE	1		
					PROJECT	TRASKRAW			DATE	10/1/2020		
TWP	RGE	SC	TRACT	TYPE	ACRES		PLOTS	TREES	CuFt	BdFt		
01S	06	11	00U2	00MC	181.00		31	130	S	W		
01S	06W	22	00U1	00MC								
					TREES		ESTIMATED	PERCENT				
					TOTAL		SAMPLE					
PLOTS			TREES	PER PLOT		TREES	TREES					
TOTAL			31	130	4.2							
CRUISE			31	130	4.2		14,235	.9				
DBH COUNT												
REFOREST												
COUNT												
BLANKS												
100 %												
STAND SUMMARY												
SAMPLE			TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET	
TREES			/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC	
DOUG FIR			130	78.6	19.8	110	37.8	168.1	34,134	33,976	7,404	7,404
TOTAL			130	78.6	19.8	110	37.8	168.1	34,134	33,976	7,404	7,404
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		68.0	6.0	714	759	805						
TOTAL		68.0	6.0	714	759	805	185		46	21		
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		60.2	5.3	152	160	169						
TOTAL		60.2	5.3	152	160	169	145		36	16		
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		93.1	16.7	66	79	92						
TOTAL		93.1	16.7	66	79	92	346		87	38		
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		48.0	8.6	154	168	183						
TOTAL		48.0	8.6	154	168	183	92		23	10		
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		48.9	8.8	30,991	33,976	36,960						
TOTAL		48.9	8.8	30,991	33,976	36,960	96		24	11		
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		45.6	8.2	6,798	7,404	8,010						
TOTAL		45.6	8.2	6,798	7,404	8,010	83		21	9		

TC		PSPCSTGR		Species, Sort Grade - Board Foot Volumes (Project)															
T01S R06W S11 Ty00MC81.00 T01S R06W S22 Ty00MC100.00				Project: TRASKRAW				Page 1											
				Acres 181.00				Date 10/1/2020											
								Time 12:16:35PM											
S So Gr Spp T rt ad		% Net BdFt	Bd. Ft. per Acre			Total Net MBF	Percent of Net Board Foot Volume								Average Log				Logs
		Def%	Gross	Net	Log Scale Dia.				Log Length				Ln Ft	Dia In	Bd Ft	CF/ Lf	Per /Acre		
					4-5		6-11	12-16	17+	12-20	21-30	31-35						36-99	
DF	2M	75	.5	25,912	25,792	4,668			43	57				100	40	16	438	2.20	58.9
DF	3M	20	.3	6,778	6,760	1,224		99	1			1	3	96	39	8	102	0.70	66.0
DF	4M	5	1.5	1,445	1,423	258		100			35	35	11	19	21	6	28	0.37	50.3
DF Totals		100	.5	34,134	33,976	6,150		24	33	43	1	2	1	96	34	10	194	1.23	175.2
Totals			0.5	34,134	33,976	6,150		24	33	43	1	2	1	96	34	10	194	1.23	175.2

TC		PSTNDSUM											Stand Table Summary											Page		1	
																								Date:		10/1/2020	
T01S R06W S11 Ty00MC81.00 T01S R06W S22 Ty00MC100.00					Project					TRASKRAW					Time:					12:16:36PM							
					Acres					181.00					Grown Year:												
S	Sp	T	Sample		Tot		Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	T o t a l s												
			DBH	Trees	FF 16'	Av Ht				Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF										
DF			8	3	84	57	11.871	4.14	11.87	4.0	20.0	1.36	48	237	246	86	43										
DF			10	2	90	102	4.720	2.57	6.91	10.1	47.3	1.99	70	327	361	127	59										
DF			11	1	85	108	1.808	1.19	3.62	10.1	45.0	1.04	37	163	188	66	29										
DF			12	2	87	83	3.278	2.57	5.04	13.0	49.1	1.87	66	247	339	119	45										
DF			13	3	87	86	4.088	3.77	8.18	13.5	55.0	3.14	110	450	568	199	81										
DF			14	1	86	106	1.292	1.38	2.58	18.4	80.0	1.36	48	207	246	86	37										
DF			15	4	87	85	4.349	5.34	7.57	20.3	76.2	4.38	154	577	793	278	104										
DF			16	3	88	121	2.833	3.96	6.66	23.4	103.4	4.44	156	688	804	282	125										
DF			17	5	86	120	3.905	6.15	8.57	28.1	114.7	6.85	240	983	1,240	435	178										
DF			18	4	86	109	2.914	5.15	5.83	32.6	126.0	5.41	190	734	980	344	133										
DF			19	7	87	125	4.529	8.92	12.18	30.9	125.2	10.72	376	1,525	1,941	681	276										
DF			20	5	87	118	3.079	6.72	7.34	37.6	150.6	7.87	276	1,105	1,425	500	200										
DF			21	5	88	139	2.637	6.34	7.91	38.7	186.3	8.73	306	1,474	1,580	554	267										
DF			22	11	86	127	5.186	13.69	14.51	42.1	184.2	17.40	611	2,674	3,150	1,105	484										
DF			23	3	88	136	1.371	3.96	4.11	44.7	199.2	5.24	184	819	949	333	148										
DF			24	7	88	139	2.838	8.92	8.52	50.5	227.9	12.25	430	1,941	2,217	778	351										
DF			25	7	88	136	2.616	8.92	7.85	54.9	253.1	12.27	431	1,986	2,221	779	359										
DF			26	6	86	132	2.095	7.72	6.28	58.0	259.1	10.38	364	1,628	1,879	659	295										
DF			27	5	88	138	1.595	6.34	4.79	63.3	287.7	8.63	303	1,377	1,562	548	249										
DF			28	6	89	143	1.806	7.72	5.42	70.9	343.1	10.95	384	1,859	1,983	696	337										
DF			29	10	86	136	2.847	13.06	8.54	73.0	345.8	17.77	623	2,953	3,216	1,128	535										
DF			30	7	88	146	1.817	8.92	5.45	85.0	425.0	13.20	463	2,316	2,390	838	419										
DF			31	9	87	139	2.264	11.87	6.79	84.3	404.7	16.31	572	2,749	2,952	1,036	498										
DF			32	4	87	144	.922	5.15	2.77	93.0	459.7	7.33	257	1,272	1,327	466	230										
DF			33	2	86	143	.433	2.57	1.30	99.5	479.8	3.69	129	624	667	234	113										
DF			34	1	89	147	.219	1.38	.66	110.9	590.0	2.08	73	388	376	132	70										
DF			35	3	89	147	.620	4.14	1.86	116.3	620.0	6.17	216	1,154	1,117	392	209										
DF			37	1	81	129	.185	1.38	.55	110.7	490.0	1.75	61	272	317	111	49										
DF			38	3	90	150	.526	4.14	1.58	142.5	790.0	6.41	225	1,247	1,160	407	226										
DF			Totals		130	87	110	78.645	168.10	175.23	42.3	193.9	211.02	7,404	33,976	38,194	13,401	6,150									
	Totals			130	87	110	78.645	168.10	175.23	42.3	193.9	211.02	7,404	33,976	38,194	13,401	6,150										

TC		Log Stock Table - MBF																	
T01S R06W S11 Ty00MC		81.00		Project:		TRASKRAW												Page	1
T01S R06W S22 Ty00MC		100.00		Acres		181.00												Date	10/1/2020
																		Time	12:16:35PM
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	4,690		4,668	75.9					666		803	1547	1266	387		
DF		3M	23	2		2	.0				2								
DF		3M	25	2		2	.0				2								
DF		3M	28	2		2	.0				2								
DF		3M	31	4		4	.1				2	2							
DF		3M	32	2		2	.0				2								
DF		3M	33	9		9	.1				3	6							
DF		3M	34	11		11	.2				11								
DF		3M	35	13		13	.2				13								
DF		3M	36	14		14	.2				14								
DF		3M	37	14		14	.2				14								
DF		3M	38	21		21	.3				21								
DF		3M	39	20		20	.3				16	3							
DF		3M	40	1,112		1,109	18.0			259	281	554	15						
DF		4M	12	7		7	.1				7								
DF		4M	13	12	34.4	8	.1				8								
DF		4M	14	7		7	.1				7								
DF		4M	15	8		8	.1				8								
DF		4M	16	17		17	.3				17								
DF		4M	17	10		10	.2				10								
DF		4M	18	33		33	.5				33								
DF		4M	21	20		20	.3				20								
DF		4M	22	4		4	.1				4								
DF		4M	23	4		4	.1				4								
DF		4M	24	11		11	.2				11								
DF		4M	25	5		5	.1				5								
DF		4M	26	11		11	.2				11								
DF		4M	27	10		10	.2				10								
DF		4M	28	5		5	.1				5								
DF		4M	29	3		3	.0				3								
DF		4M	30	16		16	.3				16								
DF		4M	31	9		9	.1				9								
DF		4M	32	8		8	.1				8								
DF		4M	33	8		8	.1				8								
DF		4M	35	4		4	.1				4								
DF		4M	36	3		3	.1				3								
DF		4M	38	11		11	.2				11								

TC		PLOGSTVB		Log Stock Table - MBF															
T01S R06W S11 Ty00MC81.00 T01S R06W S22 Ty00MC100.00				Project: TRASKRAW												Page 2			
				Acres 181.00												Date 10/1/2020			
																Time 12:16:35PM			
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		4M	39	4		4	.1			4									
DF		4M	40	32		32	.5			24	4	5							
DF		Totals		6,178		6,150	100.0			607	300	559	681	803	1547	1266	387		
Total		All Species		6,178		6,150	100.0			607	300	559	681	803	1547	1266	387		

VOLUME SUMMARY

Trask Flats
FG-341-2021-W00521-01

October 2020

VOLUMES IN MBF

UNIT 1: MC (100 ACRES)

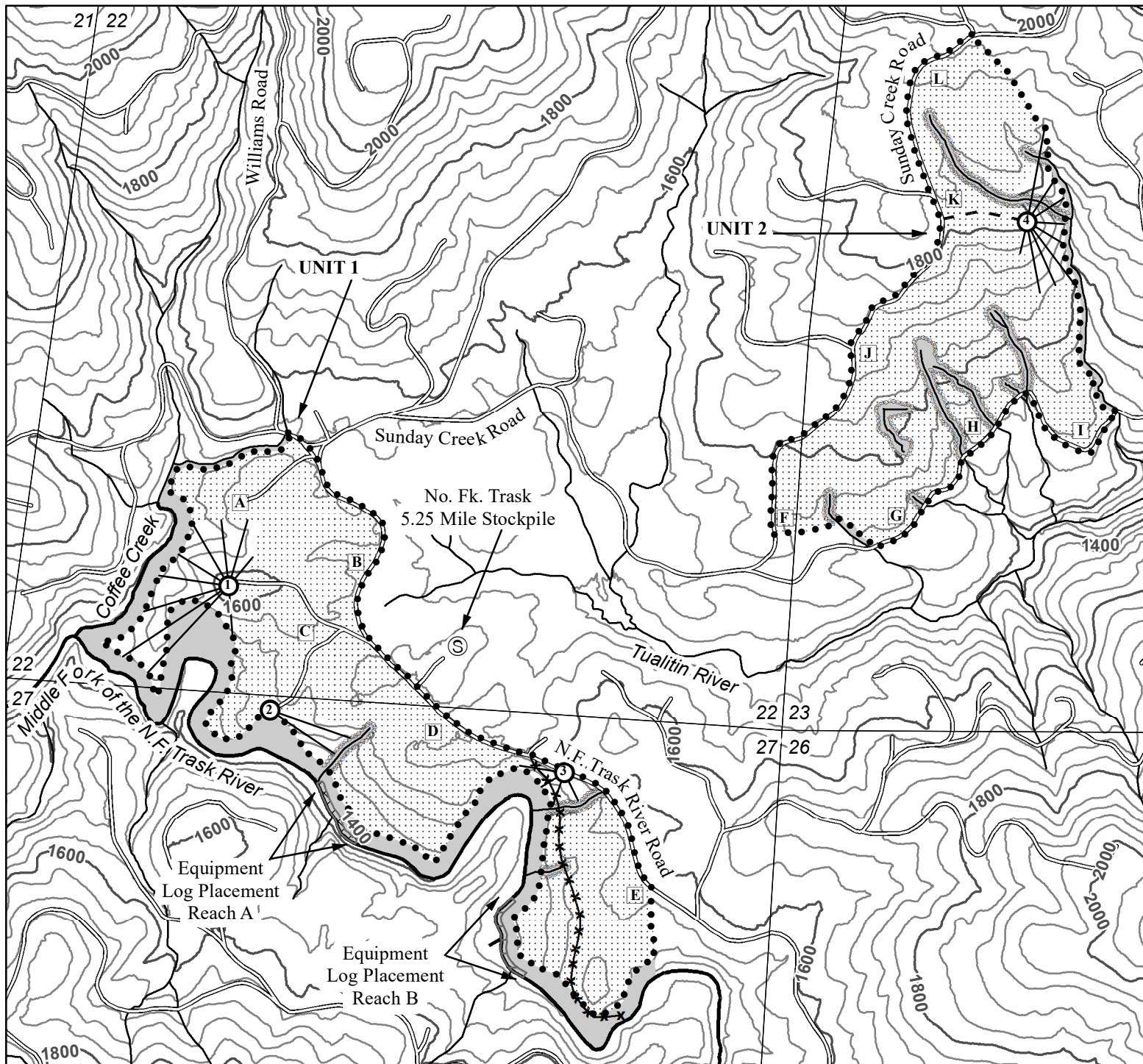
SPECIES		2 SAW	3 SAW	4 SAW	TOTAL
Douglas-fir	Cruise Volume	2,650	596	169	3,415
	Hidden D&B (2%)	(53)	(12)	(3)	(68)
	NET TOTAL	2,597	584	166	3,347
	% of Total	78	17	5	

UNIT 2: MC (81 ACRES)

SPECIES		2 SAW	3 SAW	4 SAW	TOTAL
Douglas-fir	Cruise Volume	1,994	628	88	2,710
	Hidden D&B (2%)	(40)	(13)	(2)	(55)
	NET TOTAL	1,954	615	86	2,655
	% of Total	74	23	3	

SALE TOTAL

SPECIES	2 SAW	3 SAW	4 SAW	TOTAL
Douglas-fir	4,551	1,199	252	6,002
Total	4,551	1,199	252	6,002



Legend

- Timber Sale Boundary
- Stream Buffer Boundary
- Surfaced Roads
- - - Non-Project Road
- Type-F Stream
- Type-N Stream
- Stream Buffer
- ×× Subsurface Pipeline Easement
- Equipment Log Placement Reach A
- Equipment Log Placement Reach B
- Cable Yarding Area
- Tractor Yarding Area
- Cable Landing
- Tractor Landing
- Ⓢ Stockpile
- Section Lines
- 40 Foot Contour Band
- 200 Foot Contour Band

LOGGING PLAN

FOR TIMBER SALE CONTRACT #FG-341-2021-W00521-01
TRASK FLATS
PORTIONS OF SECTIONS 22, 23 & 27, T1S, R6W, W.M.,
WASHINGTON COUNTY, OREGON

Forest Grove District GIS

November, 2020

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

0 250 500 1,000 1,500 2,000

Feet



APPROXIMATE NET ACRES

	TRACTOR	CABLE
UNIT 1	84	16
UNIT 2	76	5
TOTAL	159	22