



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Eastern Moon
Sale TL-341-2021-W00490-01

District: Tillamook

Date: June 29, 2020

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$718,987.68	\$11,676.09	\$730,663.77
		Project Work:	\$0.00
		Advertised Value:	\$730,663.77



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Timber Description

Location: Section(s) 16, 21 of T3S R8W W.M., Tillamook County, Oregon

Stand Stocking: 20%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	29	0	100
Western Hemlock / Fir	23	0	100
Alder (Red)	16	0	100

Volume by Grade	2S	3S & 4S 6"-11"	8" - 9"	10" - 11"	12"+	6" - 7"	Total
Douglas - Fir	1,557	253	0	0	0	0	1,810
Western Hemlock / Fir	33	11	0	0	0	0	44
Alder (Red)	0	0	8	37	8	14	67
Total	1,590	264	8	37	8	14	1,921

Comments: Pond Values Used: June 2020
Region: Astoria, Forest Grove, and Tillamook

Western Red Cedar and Other Cedars Stumpage Price = \$1,152.00/MBF - \$253.87/MBF = \$898.13/ MBF

Pulp (Conifer and Hardwood) Price = \$ 2.50/ Ton

BRAND AND PAINT ALLOWANCE = \$2.00/ MBF

FUEL COST ALLOWANCE = \$3.00/ Gallon

HAULING COST ALLOWANCE

Hauling cost equivalent to \$950 daily truck cost
(\$95.00/hr x 10 hr. = \$950)

Other Costs with Profit and Risk to be added:

Non-Project Rd. 1: 5+26 sta. \$255/sta. = \$1341

Non-Project Rd. 2: 9+11 sta. \$255/sta. = \$2323

Non-Project Rd. 3: 9+38 sta. \$255/sta. = \$2392

Non-Project Rd. 4: 3+96 sta. \$255/sta. = \$1010

Non-Project Rd. 5: 7+70 sta. \$255/sta. = \$1964

Non-Project Rd. 6: 3+25 sta. \$255/sta. = \$829

TOTAL Other Costs with profit and Risk to be added = \$9859

Other Costs with No Profit and Risk Added:

Move-in Machine Cleaning: \$1,000/machine x 2 machines x 1 seasons = \$2,000

Heliport Construction: \$1,000 (\$1,000/unit x 1 unit)

USFS Spot Brushing: 0.3 miles = \$500

TOTAL Other Costs no Profit and Risk added = \$3500

ROAD MAINTENANCE:

USFS prehaul Grade and Shape: \$1,500/mile x 0.30 miles / 1,921 MBF = \$0.23

USFS agreement Spot Rocking: 25yrds x \$27.56/cy/1,921 MBF= \$0.36

USFS Final Maintenance Grading: \$1,500/mile x 0.30 miles / 1,921 MBF = \$0.23

Total Maintenance Costs: \$0.82/MBF



"STEWARDSHIP IN FORESTRY"

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Date: June 29, 2020

Logging Conditions

Combination#: 1	Douglas - Fir	100.00%
	Western Hemlock / Fir	100.00%
	Alder (Red)	100.00%
Logging System:	Shovel	Process: Harvester Head Delimbing
yarding distance:	Short (400 ft)	downhill yarding: No
tree size:	Mature / Partial Cut (900 Bft/tree), 3-5 logs/MBF	
loads / day:	12	bd. ft / load: 4100
cost / mbf:	\$108.62	
machines:	Forwarder Harvester	



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Eastern Moon Sale TL-341-2021-W00490-01

District: Tillamook

Date: June 29, 2020

Logging Costs

Operating Seasons: 1.00	Profit Risk: 10%
Project Costs: \$0.00	Other Costs (P/R): \$9,859.00
Slash Disposal: \$0.00	Other Costs: \$3,500.00

Miles of Road

Road Maintenance: \$0.82

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	4.3
Western Hemlock / Fir	\$0.00	2.0	4.0
Alder (Red)	\$0.00	1.0	4.0



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Eastern Moon Sale TL-341-2021-W00490-01

District: Tillamook

Date: June 29, 2020

Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
Douglas - Fir									
\$108.62	\$0.82	\$2.28	\$110.47	\$5.13	\$22.73	\$0.00	\$2.00	\$1.82	\$253.87
Western Hemlock / Fir									
\$108.62	\$0.82	\$2.28	\$118.75	\$5.13	\$23.56	\$0.00	\$2.00	\$1.82	\$262.98
Alder (Red)									
\$108.62	\$0.82	\$2.28	\$237.50	\$5.13	\$35.44	\$0.00	\$2.00	\$1.82	\$393.61

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$644.95	\$391.08	\$0.00
Western Hemlock / Fir	\$0.00	\$516.00	\$253.02	\$0.00
Alder (Red)	\$0.00	\$567.88	\$174.27	\$0.00



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Eastern Moon
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District: Tillamook

Date: June 29, 2020

Summary

Amortized

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

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	1,810	\$391.08	\$707,854.80
Western Hemlock / Fir	44	\$253.02	\$11,132.88
Alder (Red)	67	\$174.27	\$11,676.09

Gross Timber Sale Value

Recovery: \$730,663.77

Prepared By: Nathan Atchison

Phone: 503-815-7031



OREGON DEPARTMENT OF FORESTRY CRUISE REPORT *Eastern Moon*

1. Type of Sale

Regeneration harvest, Recovery

2. Legal Description

Sections 16, 21 of T3S R8W W.M., Tillamook County, Oregon.

3. Sale Acreage

Sale acreage was determined by GPS and orthophotographs along with GIS.

<u>ACRES</u>		
	<u>Gross</u>	<u>Net</u>
Unit 1 (Modified Clearcut)	37	32
Total Acres	37	32

Gross Acres

Area within the Timber Sale Boundary signs

Net acres

Used for calculating the advertised volume.

Gross acres, less green tree retention, roads, Non-required thinning areas, and riparian areas classified as Special Stewardship in LMCS inside the sale boundary.

4. Cruising Procedures

A. Cruise Method

All units were cruised using a 175' x 700' grid. All timber sale units were cruised with a variable plot sampling method. All conifers 8" DBH and greater and all hardwoods 10" DBH and greater were recorded on all plots. Every plot recorded species, diameter, height, form factor and grade. Merchantable heights were recorded to 6" and 7" outside bark for conifers and hardwoods, respectively.

B. Plot size

Point of observation was 4.0'. Form factor was measured at 16.0'.

Unit	BAF
1	40.00

C. Grading System

All trees were graded according to Columbia River Log Scaling and Grading Rules. Log lengths favored 40' lengths.

5. Computation Procedure

Cruise data was entered into SuperAce for computation of basal area, advertised volume, volume summary, log stock table, and stand table for each species and type. Plots landing in riparian management areas or areas excluded from the timber sale harvest areas were removed from computation procedures.

Net sale acreage was used for volume calculation.

Cruise Statistics (Board Foot Volumes)			
Unit	Number of Plots	SE (%)	CV (%)
1	15	7.9	29.7
Total	15	7.9	29.7

6. Hidden Defect and Breakage

A 1% reduction was applied to conifers and a 2% reduction to hardwood volumes for hidden defect and breakage.

7. Timber Description

Unit 1 is approximately a 91 year old stand of Douglas-fir with red alder and scattered western hemlock. The unit was first thinned in the 1980s and commercial thinned as part of Tom's Thin in 1998.

The stand is comprised of multiple merchantable species, please see the table below:

Unit #	Species	DBH	Merchantable Bole Height (feet)	Merchantable top (inches inside bark)
1	Douglas-fir	29.4	123	5
1	Red alder	15.5	66	6
1	Western Hemlock	22.6	82	5

Above data derived from Statistics (type) report using SuperAce 2008, developed by Atterbury consultants, Inc.

8. Cruiser /Dates

The timber sale was cruised by the marketing unit in 2020.

9. Revenue Distribution

FDF 100%

Tax Code: 800 – 100%

Deed Numbers: 186 & 447

10. Attachments

Volume Summary

Stand Tables

Log Stock Tables

Species, Sort, Grade Tables

Logging Plan

11. Stand and Log Stock Tables Species Key

DF – Douglas-fir take

RA – Red alder take

WH – Western hemlock take

Prepared by: Nathan Atchison, Forester

Date: 6/29/2020

TC TLOGSTVB				Log Stock Table - MBF																
				Project: EASTM																
T03S R08W S16 T0100										T03S R08W S16 T0100										
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page	1											
03S	08W	16	UNIT 1	0100	32.00	15	62	Date	6/29/2020											
										Time	10:01:14AM									
Spp	S	So	Gr	Log	Gross	% 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	CO	2	16		22		22	1.2									11	11		
DF	CO	2	20		12		12	.7									12			
DF	CO	2	32		4		4	.2							4					
DF	CO	2	40		1,546	.7	1,535	84.0						45	71	464	510	376	69	
DF	CO	3	15		1		1	.0					1							
DF	CO	3	17		2		2	.1					2							
DF	CO	3	24		22		22	1.2				4	6	6	6					
DF	CO	3	32		48		48	2.6				5	14	25		5				
DF	CO	3	33		6	10.3	5	.3			2		3							
DF	CO	3	34		2		2	.1				2								
DF	CO	3	36		16		16	.9				9	3				4			
DF	CO	3	38		2		2	.1				2								
DF	CO	3	40		123	.6	122	6.7			2	4	48	22	5	42				
DF	CO	4	12		0		0	.0			0									
DF	CO	4	13		1		1	.1				1								
DF	CO	4	14		2		2	.1			1	1								
DF	CO	4	15		1		1	.1			0	1								
DF	CO	4	16		2		2	.1			2	1								
DF	CO	4	17		4		4	.2				2	2							
DF	CO	4	18		5		5	.2		1	2	1	1							
DF	CO	4	19		3		3	.1		1	1	1								
DF	CO	4	20		2		2	.1		1		1								
DF	CO	4	23		1		1	.1			1									
DF	CO	4	24		1		1	.0			1									
DF	CO	4	25		1		1	.1		1										
DF	CO	4	26		1		1	.1			1									
DF	CO	4	28		1		1	.1		1										
DF	CO	4	30		1		1	.1			1									
DF	CO	4	35		2		2	.1		2										
DF	CO	4	36		4		4	.2		4										
DF	CO	4	40		4		4	.2					4							
DF	Totals				1,841		1,828	94.2		11	13	34	82	97	86	515	534	387	69	
RA	H	3	20		8		8	12.3					8							
RA	H	3	40		38	2.2	37	55.1					37							
RA	H	4	13		1		1	1.9			1									
RA	H	4	23		3		3	3.7			3									
RA	H	4	27		2		2	3.2			2									
RA	H	4	28		3		3	3.7			3									
RA	H	4	40		14		14	20.1			6	8								
RA	Totals				69	1.2	68	3.5			14	8	37	8						
WH	CO	2	40		35	2.3	34	75.7					8		11			15		
WH	CO	3	32		1		1	2.1			1									
WH	CO	3	40		7		7	16.0								7				
WH	CO	4	31		1		1	2.6		1										
WH	CO	4	36		2		2	3.5		2										
WH	Totals				46	1.8	45	2.3		3	1		8		11	7		15		
Total All Species					1,955		1,941	100.0		14	28	43	120	113	97	522	534	401	69	

T	Species, Sort Grade - Board Foot Volumes (Type)														Page 1						
Project: EASTM														Date 6/29/2020							
														Time 10:01:14AM							
T03S R08W S16 T0100														T03S R08W S16 T0100							
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt												
03S	08W	16	UNIT 1	0100	32.00	15	62	S	W												
S So Gr T rt ad Spp			%	Bd. Ft. per Acre			Total Net MBF	Percent 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	CO	2	86	.7	49,495	49,139	1,572			15	85	2		0	98	39	19	632	2.90	77.8	
DF	CO	3	12	.6	6,909	6,868	220			48	36	16	1	10	25	64	34	11	162	1.19	42.3
DF	CO	4	2		1,115	1,115	36	31	69				56	19	5	20	21	7	33	0.50	33.5
DF	Totals		94	.7	57,519	57,121	1,828	1	7	17	75	3	2	3	92	34	14	372	2.10	153.6	
RA	H	3	67	1.8	1,456	1,429	46			82	18		18			82	35	11	141	0.94	10.1
RA	H	4	33		692	692	22			100			6	33		62	29	7	49	0.51	14.2
RA	Totals		3	1.2	2,148	2,121	68			88	12		14	11		75	31	8	87	0.71	24.3
WH	CO	2	75	2.3	1,085	1,060	34			57	43					100	40	15	370	2.00	2.9
WH	CO	3	18		254	254	8			12		88			12	88	36	13	300	1.91	.8
WH	CO	4	7		86	86	3	100							43	57	34	5	35	0.54	2.4
WH	Totals		2	1.8	1,425	1,399	45	6	2	43	49			5	95		37	11	227	1.46	6.2
Type Totals				.7	61,091	60,642	1,941	1	10	18	72	3	2	3	92		34	13	330	1.90	184.0

TC TSTATS				STATISTICS				PAGE	1		
				PROJECT	EASTM			DATE	6/29/2020		
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt		
03S	08W	16	UNIT 1	0100	32.00	15	87	S	W		
				TREES	ESTIMATED	PERCENT					
				PER PLOT	TOTAL	SAMPLE					
PLOTS		TREES		TREES		TREES					
TOTAL		15		87		5.8					
CRUISE		11		62		5.6		1,890		3.3	
DBH COUNT											
REFOREST											
COUNT		4		25		6.3					
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		54	44.1	29.4	123	38.3	208.0	57,519	57,121	10,925	
R ALDER		5	12.1	15.5	66	4.1	16.0	2,148	2,121	539	
WHEMLOCK		3	2.9	22.6	82	1.7	8.0	1,425	1,399	331	
TOTAL		62	59.1	26.8	109	44.8	232.0	61,091	60,642	11,795	
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		46.6	6.3	1,438	1,535	1,632					
R ALDER		14.4	7.2	162	174	186					
WHEMLOCK		108.7	75.2	186	750	1,314					
TOTAL		57.0	7.2	1,287	1,387	1,488	130	32	14		
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		40.2	5.5	272	288	304					
R ALDER		12.8	6.4	41	44	47					
WHEMLOCK		90.1	62.3	61	163	264					
TOTAL		50.2	6.4	245	262	279	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		42.9	11.5	39	44	49					
R ALDER		260.2	69.5	4	12	21					
WHEMLOCK		226.2	60.4	1	3	5					
TOTAL		52.6	14.1	51	59	67	119	30	13		
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		31.8	8.5	190	208	226					
R ALDER		263.9	70.5	5	16	27					
WHEMLOCK		207.0	55.3	4	8	12					
TOTAL		29.3	7.8	214	232	250	37	9	4		
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		31.3	8.4	52,341	57,121	61,902					
R ALDER		261.7	69.9	639	2,121	3,604					
WHEMLOCK		226.0	60.4	555	1,399	2,244					
TOTAL		29.7	7.9	55,834	60,642	65,450	38	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		31.7	8.5	9,999	10,925	11,851					
R ALDER		258.5	69.0	167	539	910					
WHEMLOCK		211.9	56.6	144	331	518					

TC TSTATS				STATISTICS				PAGE	2
				PROJECT	EASTM			DATE	6/29/2020
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
03S	08W	16	UNIT 1	0100	32.00	15	87	S	W
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
TOTAL		29.4	7.9	10,869	11,795	12,721	37	9	4

TC		TSTNDSUM													Stand Table Summary														
Project															EASTM														
T03S R08W S16 T0100															T03S R08W S16 T0100														
Twp	Rge	Sec	Tract	Type			Acres	Plots	Sample Trees			Page:	1																
03S	08W	16	UNIT 1	0100			32.00	15	62			Date:	06/29/2020																
															Time:	10:01:15AM													
S T	DBH	Sample		FF	Av Ht	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net	Net	T o t a l s															
		Trees	16'	Tot	Net Cu.Ft.				Net Bd.Ft.	Cu.Ft.		Bd.Ft.	Tons	Cunits	MBF														
DF	19	1	87	110	1.956	3.85	5.87	23.8	93.3	3.97	139	548	127	45	18														
DF	21	2	89	124	3.203	7.70	9.61	35.2	153.3	9.65	339	1,473	309	108	47														
DF	22	1	90	128	1.459	3.85	4.38	41.1	193.3	5.13	180	846	164	58	27														
DF	23	1	88	143	1.335	3.85	4.01	46.8	213.3	5.35	188	854	171	60	27														
DF	24	3	87	142	3.678	11.56	12.26	46.9	218.0	16.41	576	2,673	525	184	86														
DF	25	1	90	163	1.130	3.85	4.52	49.3	257.5	6.35	223	1,164	203	71	37														
DF	26	1	88	136	1.045	3.85	3.13	55.8	253.3	4.98	175	794	159	56	25														
DF	27	2	88	142	1.938	7.70	5.81	63.9	305.0	10.59	372	1,773	339	119	57														
DF	28	4	89	154	3.603	15.41	14.41	57.3	308.1	23.52	825	4,441	753	264	142														
DF	29	5	87	151	4.199	19.26	14.28	71.2	363.5	28.97	1,016	5,190	927	325	166														
DF	30	5	87	151	3.923	19.26	13.34	75.0	387.1	28.53	1,001	5,163	913	320	165														
DF	31	6	88	164	4.409	23.11	17.64	71.8	389.6	36.10	1,267	6,871	1,155	405	220														
DF	32	4	89	159	2.759	15.41	10.35	83.3	453.3	24.55	861	4,690	786	276	150														
DF	33	2	88	150	1.297	7.70	4.54	88.9	470.0	11.50	404	2,134	368	129	68														
DF	34	2	86	169	1.222	7.70	4.89	87.0	472.5	12.12	425	2,309	388	136	74														
DF	35	2	86	160	1.153	7.70	4.61	90.9	507.5	11.94	419	2,341	382	134	75														
DF	36	2	86	157	1.090	7.70	3.81	107.6	544.3	11.70	410	2,076	374	131	66														
DF	37	4	85	161	2.063	15.41	6.19	125.8	655.8	22.19	779	4,060	710	249	130														
DF	38	2	90	171	.978	7.70	3.42	126.0	737.1	12.30	431	2,524	393	138	81														
DF	40	1	85	175	.441	3.85	1.77	118.6	660.0	5.97	209	1,165	191	67	37														
DF	42	2	90	178	.801	7.70	3.20	144.2	852.5	13.16	462	2,730	421	148	87														
DF	43	1	90	169	.382	3.85	1.53	147.0	852.5	6.40	225	1,302	205	72	42														
DF	Totals	54	88	150	44.064	208.00	153.56	71.1	372.0	311.38	10,925	57,121	9,964	3,496	1,828														
RA	15	3	87	101	7.823	9.60	15.65	21.8	86.7	9.39	342	1,356	301	109	43														
RA	16	1	88	99	2.292	3.20	4.58	26.3	105.0	3.32	121	481	106	39	15														
RA	17	1	88	89	2.030	3.20	4.06	18.8	70.0	2.10	76	284	67	24	9														
RA	Totals	5	87	99	12.145	16.00	24.29	22.2	87.3	14.81	539	2,121	474	172	68														
WH	20	2	87	100	2.445	5.33	4.89	39.0	140.0	6.11	191	684	195	61	22														
WH	34	1	88	144	.423	2.67	1.27	110.6	563.3	4.49	140	715	144	45	23														
WH	Totals	3	87	106	2.868	8.00	6.16	53.8	227.2	10.59	331	1,399	339	106	45														
Totals		62	88	137	59.077	232.00	184.01	64.1	329.6	336.78	11795	60,642	10,777	3,774	1,941														



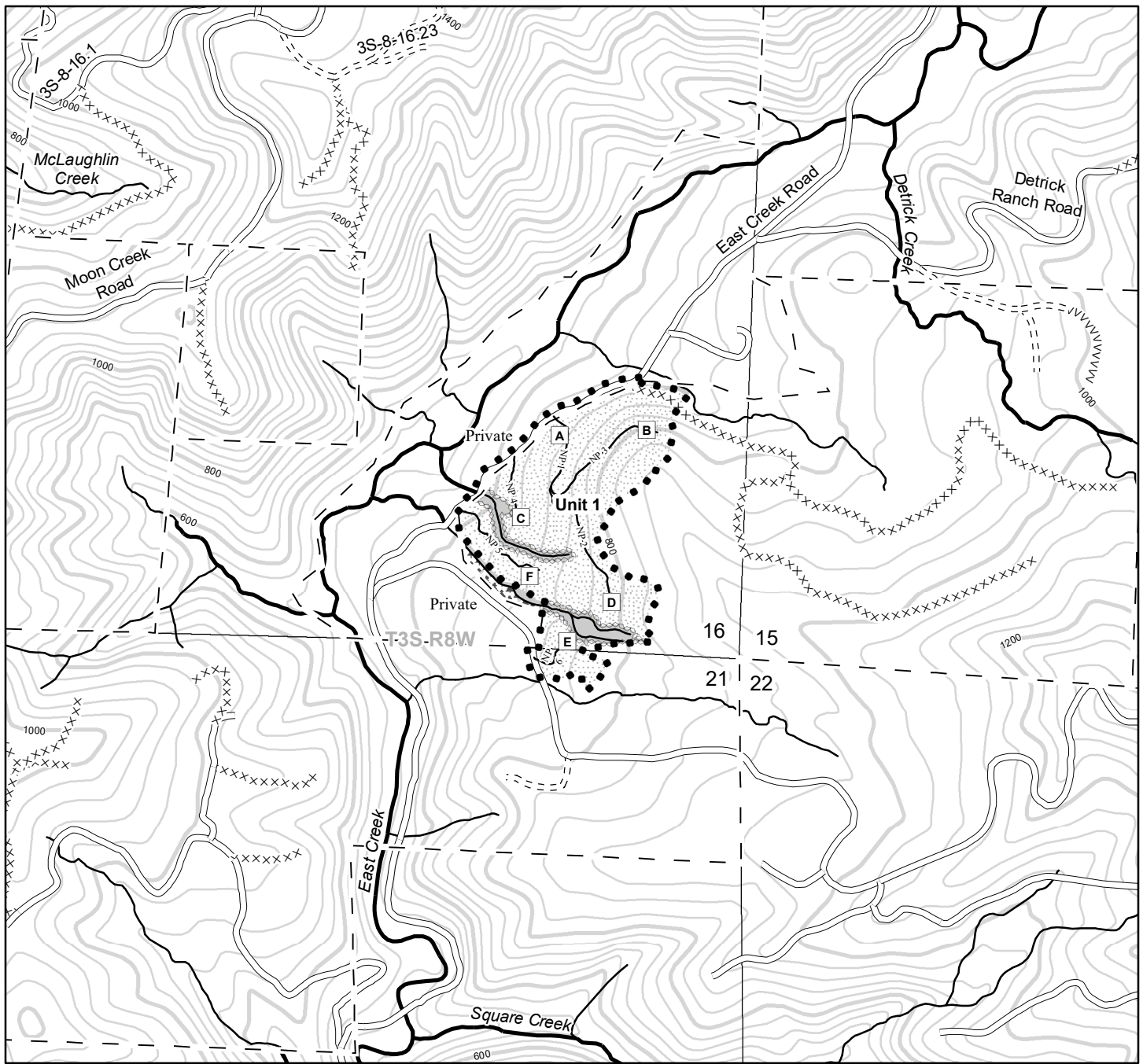
"STEWARDSHIP IN FORESTRY"

Eastern Moon

Volume Summary

Unit 1-Modified Clearcut				
32 acres				
SPECIES	Cruised Net MBF/ Acre	Cruised Net MBF	Hidden D&B	Net Sale MBF
Douglas-fir	57	1828	1%	1810
Western Hemlock	1	45	1%	44
Red alder	2	68	2%	67
TOTAL	61	1941		1921

TOTAL SALE VOLUME			32	acres
SPECIES	Cruised Net (MBF)		Net Sale (MBF)	
Douglas-fir	1828		1810	
Red Alder	68		67	
Western hemlock	45		44	
Big Leaf Maple	0		0	
Sitka Spruce	0		0	
Western red cedar	0		0	
TOTAL	1941		1921	



••••• Timber Sale Boundary

— Surfaced Road

~~~~~ Abandoned road

xxxxx Blocked road

— Type-F Stream

— Type-N Stream

— Cable Corridor

▨ Stream Buffer

□ Sections

— 200 Foot Contour Band

— 40 Foot Contour Band

② Non-project road

▨ Ground Yarding

▨ Green Tree Retention Area

## LOGGING PLAN

FOR TIMBER SALE CONTRACT TL-341-2021-W00490-01  
EASTERN MOON  
PORTIONS OF SECTIONS 16, 21 of T3S R8W W.M.,  
TILLAMOOK COUNTY, OREGON

Tillamook District GIS  
July, 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



NET ACRES

|        | TRACTOR | CABLE |
|--------|---------|-------|
| UNIT 1 | 32      | 0     |
| TOTAL  | 32      | 0     |