



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Edwards Butte
Sale TL-341-2024-W00969-01

District: Tillamook

Date: January 01, 2023

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$779,933.98	\$121,238.69	\$901,172.67
		Project Work:	(\$29,700.00)
		Advertised Value:	\$871,472.67



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Edwards Butte
Sale TL-341-2024-W00969-01

District: Tillamook

Date: January 01, 2023

Timber Description

Location: PORTIONS OF SECTIONS 14, 15, 16, 21, 22, 29, 30 of T2S R8W W.M.

Stand Stocking: 80%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	15	0	100
Alder (Red)	15	0	100

Volume by Grade	2S	3S & 4S 6"-11"	8" - 9"	10" - 11"	12"+	6" - 7"	Total
Douglas - Fir	963	1,340	0	0	0	0	2,303
Alder (Red)	0	0	199	265	227	216	907
Total	963	1,340	199	265	227	216	3,210

Comments:

Additional Costs – Edwards Butte

Pond Values Used: January 2023

Region: Astoria, Forest Grove, and Tillamook

Western red cedar and other cedars stumpage price = \$1,214/MBF - \$500.00/MBF = \$714.00/MBF

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

FUEL COST ALLOWANCE = \$5.00/Gallon

HAULING COST ALLOWANCE (\$120.00/hr x 10 hr.= \$ 1,200.00) = \$1,200/DAY

BRAND AND PAINT ALLOWANCE = \$2.00/ MBF

Other costs with profit and risk added:

Heliport Construction: \$500/unit x 2 unit = \$1,000

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

Unit 1 Non-Project construction or swing slash to a stable location at Landing #1: = \$4,600

UNIT 2 Access road and landing Rocking = \$31,000

TOTAL Other Costs with profit and risk to be added = \$38,600

Other Costs without Profit and Risk Added:

Slash piling and sorting (Cable Settings): \$5/ac x 117 ac. = \$585

Tail hold dozer move-in: \$1,000/machine x 2 machines = \$2,000

Ditch Cleaning and Bank Sluff Removal:

Mobilization: two times – dump truck w/ tilt bed & small excavator: \$1,030 x 2 = \$2,060

Small excavator (Cat 312 or equivalent): 40 hours @ \$225/ hour = \$9,000

Dump truck: 40 hours @ \$90/ hour = \$3,600

TOTAL Other Costs without Profit and Risk added = \$17,245

ODF Road Maintenance

Spot Rocking: 20cy/MMBF/mile x 3.210 MMBF x \$12/cy x 5 miles /3210 MBF = \$1.20/MBF

Interim Grading: \$1,150/mile x 5 miles x 1 times/ 3210 MBF = \$1.79/MBF

Final Maintenance Grading: \$1,500/mile x 5 miles/ 3210 MBF = \$2.34/MBF

Final Maintenance Compaction: \$900/mile x 3 miles/3210 MBF = \$0.84/MBF

Total Road Maintenance: = \$6.17/MBF



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Edwards Butte
Sale TL-341-2024-W00969-01

District: Tillamook

Date: January 01, 2023

Logging Conditions

Combination#: 1 Douglas - Fir 5.18%
 Alder (Red) 7.23%

Logging System: Cable: Large Tower >=70 **Process:** Harvester Head Delimiting

yarding distance: Short (400 ft) **downhill yarding:** No

tree size: Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF

loads / day: 12 **bd. ft / load:** 3800

cost / mbf: \$188.14

machines: Log Loader (A)
 Forwarder
 Harvester
 Tower Yarder (Large)

Combination#: 2 Douglas - Fir 36.85%
 Alder (Red) 36.39%

Logging System: Cable: Large Tower >=70 **Process:** Harvester Head Delimiting

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

tree size: Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF

loads / day: 9 **bd. ft / load:** 3800

cost / mbf: \$250.85

machines: Log Loader (A)
 Forwarder
 Harvester
 Tower Yarder (Large)

Combination#: 3 Douglas - Fir 57.97%
 Alder (Red) 56.37%

Logging System: Cable: Large Tower >=70 **Process:** Harvester Head Delimiting

yarding distance: Long (1,500 ft) **downhill yarding:** No

tree size: Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF

loads / day: 8 **bd. ft / load:** 3800

cost / mbf: \$282.20

machines: Log Loader (A)
 Forwarder
 Harvester
 Tower Yarder (Large)



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Edwards Butte
Sale TL-341-2024-W00969-01

District: Tillamook

Date: January 01, 2023

Logging Costs

Operating Seasons: 2.00	Profit Risk: 10%
Project Costs: \$29,700.00	Other Costs (P/R): \$38,600.00
Slash Disposal: \$0.00	Other Costs: \$17,245.00

Miles of Road

Road Maintenance: \$6.17

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	3.5
Alder (Red)	\$0.00	2.0	4.0



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Edwards Butte
Sale TL-341-2024-W00969-01

District: Tillamook

Date: January 01, 2023

Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
Douglas - Fir									
\$265.77	\$6.17	\$10.83	\$178.57	\$12.02	\$47.34	\$0.00	\$2.00	\$5.37	\$528.07
Alder (Red)									
\$263.99	\$6.17	\$10.83	\$156.25	\$12.02	\$44.93	\$0.00	\$2.00	\$5.37	\$501.56

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$866.73	\$338.66	\$0.00
Alder (Red)	\$0.00	\$635.23	\$133.67	\$0.00



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Edwards Butte
Sale TL-341-2024-W00969-01

District: Tillamook

Date: January 01, 2023

Summary

Amortized

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

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	2,303	\$338.66	\$779,933.98
Alder (Red)	907	\$133.67	\$121,238.69

Gross Timber Sale Value

Recovery: \$901,172.67

Prepared By: Nathan Atchison

Phone: 503-815-7031



PROJECT SUMMARY SHEET

Sale: Edwards Butte

CONSTRUCTION

Point	I to J	1+60	stations =	\$1,640.68
SUBTOTAL CONSTRUCTION				\$1,640.68

IMPROVEMENT

Point	A to B	297+00	stations =	\$14,929.00
Point	C to D	11+00	stations =	\$3,769.78
Point	E to F	18+80	stations =	\$3,283.50
Point	G to H	9+00	stations =	\$2,508.48
SUBTOTAL IMPROVEMENT				\$24,490.76

SPECIAL PROJECTS

Project No. 3				\$800.00
SUBTOTAL SPECIAL PROJECTS				\$800.00

MOVE IN

\$2,768.56

GRAND TOTAL

\$29,700.00

SUMMARY OF CONSTRUCTION COST

Sale:

Edwards Butte

Road:

A to B

Construction -	0+00	stations	Improvement -	297+00	stations	Reconstruction -	0+00	stations
	0.00	miles		5.63	miles		0.00	miles

IMPROVEMENT: EXCAVATION -

Clean Ditches, Ditchouts, Catch Basins	8	hours @	\$185.00	per c.y.=	\$1,480.00		
						TOTAL EXCAVATION	\$1,480.00

IMPROVEMENT: ENDHAUL -

Clean Ditches, Ditchouts, Catch Basins Endhaul	40	cy. @	\$3.17	per c.y.=	\$126.80		
Spread & compact	40	cy. @	\$0.55	per c.y.=	\$22.00		
						TOTAL ENDHAUL	\$148.80

CULVERTS - MATERIALS & INSTALLATION

<u>Culverts</u>	30	LF of 18"	\$757.50
	\$757.50		
<u>Culvert Stakes & Markers</u>			
4 markers			\$36.00

TOTAL CULVERTS \$793.50

ROCK

Culvert Backfill	87+90	20	cy. of	Crushed	@	\$6.67	per c.y.=	\$133.40	
Spot Rock	As Directed	200	cy. of	Crushed	@	\$11.29	per c.y.=	\$2,258.00	
								TOTAL ROCK	\$2,391.40

SPECIAL PROJECTS

Re-shape dented culvert inlet/outlet -	1.00	hours @	\$180.00	per hour	\$180.00		
Construct waste area -	1.00	hours @	\$220.00	per hour	\$220.00		
Install 2cy dissipator rock @ 3 locations -	1.00	lump sum @	\$906.00		\$906.00		
Grade and shape road -	297.00	stations @	\$24.40	per station	\$7,246.80		
Roll subgrade w/ vibratory roller prior to rocking -	62.00	stations @	\$19.40	per station	\$1,202.80		
Remove culverts from state lands	3.00	@	\$336.20	total	\$336.20		
Grass seed and fertilize -	0.02	acres @	\$310.00	per acre	\$6.20		
Mulching -	0.020	acres @	\$865.00	per acre	\$17.30		
						TOTAL SPECIAL PROJECTS	\$10,115.30

GRAND TOTAL \$14,929.00

SUMMARY OF CONSTRUCTION COST

Sale: **Edwards Butte** Road: **C to D**

Construction -	0+00	stations	Improvement -	11+00	stations	Reconstruction -	0+00	stations
	0.00	miles		0.21	miles		0.00	miles

IMPROVEMENT: CLEARING AND GRUBBING -

Widening	0.028	acres @	\$955.00 per acre =	\$26.74	
TOTAL CLEARING AND GRUBBING				\$26.74	

IMPROVEMENT: EXCAVATION -

Widening	8	hours @	\$185.00 per hour =	\$1,480.00	
TOTAL EXCAVATION				\$1,480.00	

IMPROVEMENT: ENDHAUL -

Widening	0+50	to	1+70	35	cy. @	\$4.15 per c.y. =	\$145.25
Widening	8+25	to	9+40	112	cy. @	\$4.47 per c.y. =	\$500.64
Spread & compact				147	cy. @	\$0.55 per c.y. =	\$80.85
TOTAL ENDHAUL							\$726.74

ROCK

Junction Rock	0+00		20	cy. of	Crushed	@	\$9.76 per c.y. =	\$195.20
TOTAL ROCK								\$195.20

SPECIAL PROJECTS

Construct landing at Point D -	1.00	@	\$410.00 per hour	\$410.00			
Grade and shape road -	11.00	stations @	\$24.40 per station	\$268.40			
Roll subgrade w/ vibratory roller -	11.00	stations @	\$19.40 per station	\$213.40			
Remove large stumps -	1.00	lump sum @	\$440.00	\$440.00			
Grass seed and fertilize -	0.03	acres @	\$310.00 per acre	\$9.30			
TOTAL SPECIAL PROJECTS							\$1,341.10

GRAND TOTAL	\$3,769.78
--------------------	-------------------

SUMMARY OF CONSTRUCTION COST

Sale:

Edwards Butte

Road:

E to F

Construction -	0+00	stations	Improvement -	18+80	stations	Reconstruction -	0+00	stations
	0.00	miles		0.36	miles		0.00	miles

IMPROVEMENT: EXCAVATION -

Pullback		194	cy. @	\$2.20	per c.y.=	\$426.80	
Slough Removal/Slope Stabilization		278	cy. @	\$2.20	per c.y.=	\$611.60	
TOTAL EXCAVATION						\$1,038.40	

IMPROVEMENT: ENDHAUL -

Pullback				194	cy. @	\$1.77	per c.y.=	\$343.38
Slough Removal/Slope Stabilization Endhaul	5+10	to	7+10	101	cy. @	\$1.67	per c.y.=	\$168.67
Slough Removal/Slope Stabilization Endhaul	1+60	to	5+10	177	cy. @	\$2.03	per c.y.=	\$359.31
Spread & compact	13+10	to	16+15	472	cy. @	\$0.55	per c.y.=	\$259.60
TOTAL ENDHAUL						\$1,130.96		

ROCK

Junction Rock		20	cy. of	Crushed	@	\$12.83	per c.y.=	\$256.60
TOTAL ROCK						\$256.60		

SPECIAL PROJECTS

Grade and shape road -		18.80	stations @	\$24.40	per station	\$458.72	
Roll subgrade w/ vibratory roller prior to rocking -		18.80	stations @	\$19.40	per station	\$364.72	
Grass seed and fertilize -		0.11	acres @	\$310.00	per acre	\$34.10	
TOTAL SPECIAL PROJECTS						\$857.54	

GRAND TOTAL **\$3,283.50**

SUMMARY OF CONSTRUCTION COST

Sale:

Edwards Butte

Road:

G to H

<u>Construction -</u>	0+00	stations	<u>Improvement -</u>	9+00	stations	<u>Reconstruction -</u>	0+00	stations
	0.00	miles		0.17	miles		0.00	miles

IMPROVEMENT: EXCAVATION -										
Slough Removal/Slope Stabilization	0+00		6+00	347	cy. @	\$2.20	per c.y.=	\$763.40		
								TOTAL EXCAVATION	\$763.40	
IMPROVEMENT: ENDHAUL -										
Slough Removal/Slope Stabilization Endhaul	0+00	to	6+00	347	cy. @	\$2.09	per c.y.=	\$725.23		
Spread & compact				347	cy. @	\$0.55	per c.y.=	\$190.85		
								TOTAL ENDHAUL	\$916.08	
SPECIAL PROJECTS										
Grade and shape road -				9.00	stations @	\$24.40	per station	\$219.60		
Construct landing at 7+95 -				1.00	@	\$410.00	each	\$410.00		
Roll subgrade w/ vibratory roller prior to rocking -				9.00	stations @	\$19.40	per station	\$174.60		
Grass seed and fertilize -				0.08	acres @	\$310.00	per acre	\$24.80		
								TOTAL SPECIAL PROJECTS	\$829.00	
								GRAND TOTAL	\$2,508.48	

SUMMARY OF CONSTRUCTION COST

Sale:

Edwards Butte

Road:

I to J

Construction -	1+60	stations	Improvement -	0+00	stations	Reconstruction -	0+00	stations
	0.03	miles		0.00	miles		0.00	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

Station	to	Station	Avg. Sideslope	<u>Avg. Dist.</u> To W.A. (mi.)	Outslope/Ditch	Cost per Station	=	\$1,129.60	
0+00		1+60	50%		Outslope	\$706	=	TOTAL	\$1,129.60

SPECIAL PROJECTS

Grade and shape road -	1.60	stations @	\$24.40	per station	\$39.04
Construct landing at Point J -	1.00	@	\$410.00	each	\$410.00
Roll subgrade w/ vibratory roller prior to rocking -	1.60	stations @	\$19.40	per station	\$31.04
Grass seed and fertilize -	0.10	acres @	\$310.00	per acre	\$31.00
				TOTAL SPECIAL PROJECTS	\$511.08

GRAND TOTAL **\$1,640.68**

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Pit:	Crushed	Location:	Sec. 12, T2S, R8W, W.M.
Sale:	Edwards Butte	Road:	260 c.y.
Swell:	1.40	Stockpile:	c.y.
Shrinkage	1.16	Total Truck Loads:	260 c.y.
Drill Pct.:	0%	In Place Total:	186 c.y.

Load Dump Truck: \$1.20 /cu.yd. x 260 cu.yds. = \$312.00

Subtotal \$312.00

Move in Loader 1 @ \$469.41 = \$469.41

Subtotal \$469.41

TOTAL PRODUCTION COSTS \$781.41

8

Road Segment	Haul Cost \$/cu.yd.	Proc Cost \$/cu.yd.	Base Cost. \$/cu.yd.	Cost \$/cu.yd.	Number Cu. Yds	ROCK COST
A to B Culvert Backfill (Crushed)	2.01	1.65	3.01	6.67	20	\$133.40
A to B Spot Rock (Crushed)	4.73	3.55	3.01	11.29	200	\$2,258.00
C to D Junction Rock (Crushed)	3.20	3.55	3.01	9.76	20	\$195.20
E to F Junction Rock (Crushed)	6.27	3.55	3.01	12.83	20	\$256.60
				Total C.Y.	260	Sub Total
						\$2,843.20

TOTAL ROCKING COSTS \$2,843.20

Move-In Calculations for Project Work not Involving Rocking/Pit Work

Sale: **Edwards Butte**

LOWBOY HAUL (Round Trip)		
DIST. (mi)	ROADWAY	AVE SPEED (mph)
32.0	Pavement	30
3.0	Main Lines	7
0.0	Steep Grades	2

No.	EQUIPMENT DESCRIPTION	Move in Cost	Pilot Cars	Within Area Move (\$/mile)	Begin Mileage	End Mileage	Total Miles	Within Area Cost	Total Cost
1	Graders	\$403.71		\$11.00	0.00	5.60	5.6	\$61.60	\$465.31
1	Rollers (smooth/grid) & Compactors	\$406.64		\$5.50	0.00	5.60	5.6	\$30.80	\$437.44
1	Excavators (Med.)	\$494.11		\$39.50	0.00	5.60	5.6	\$221.20	\$715.31
1	Tractors (D6)	\$618.78	2	\$8.00	0.00	5.60	5.6	\$44.80	\$663.58
2	Dump Truck (10 cy +)	\$291.67		\$3.25	0.00	5.60	5.6	\$36.40	\$328.07
1	Water Truck (1500 Gal)	\$142.05		\$3.00	0.00	5.60	5.6	\$16.80	\$158.85
TOTAL MOVE-IN COSTS:								\$2,768.56	



OREGON DEPARTMENT OF FORESTRY CRUISE REPORT Edwards Butte

1. Type of Sale

Regeneration harvest, Recovery

2. Legal Description

PORTIONS OF SECTIONS 14, 15, 16, 21, 22, of T2S R8W W.M.

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)	36	29
Unit 2 (Modified Clearcut)	91	77
Total	127	106

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

The timber sale was cruised using nested variable plot sampling by ODF staff May 2023. All conifers 8” DBH and greater containing 20 board feet and all hardwoods 10” DBH and greater containing 30 board feet were recorded on all plots. Species, DBH (to nearest inch), merchantable bole length (to nearest foot), form factor, and defect were recorded for all measure trees. Merchantable heights were recorded to 6” and 7” outside bark for conifers and hardwoods, respectively.

B. Plot size

Unit	BAF
1	Conifer: 40.00 Hardwood: 27.78
2	Conifer: 40.00 Hardwood: 27.78

C. Grading System

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

5. Computation Procedure

Plot 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.

Net sale acreage was used for volume calculation.

Unit	Cruise Statistics (Board Foot Volumes)			
	Acres	Number of Plots	SE (%)	CV (%)
1	29	16	7.7	30.0
2	77	40	5.7	36.0
Project Total	106	56	6.7	33.0

6. Hidden Defect and Breakage

A 2% reduction for conifers and a 4% reduction for hardwood volumes were applied for hidden defect and breakage.

7. Timber Description

Unit 1 is modified clearcut. The Unit is predominantly Douglas-fir (84%), red alder (15%), and a minor component of Big Leaf Maple that will be a reserve species. The unit burned in 1951. Unit 1 has no past management.

Unit 2 is modified clearcut. The Unit is a mixed stand of Douglas-fir (63%) and red alder (35%) and a minor component of Noble Fir that will be a reserve species. The unit burned in 1951. Unit 2 has no past management.

Sale Unit	Age	Species	DBH	Merchantable Bole Height (feet)	Merchantable top (inches inside bark)
1	55	Douglas-fir	14.9	74	5
		Red alder	14.8	67	6
2	55	Douglas-fir	15.1	53	5
		Red alder	16.2	53	6

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

8. Cruiser /Dates

ODF Staff Cruised; May 2023.

Revenue Distribution

BOF – 100%
Tax Code: 901 (100%)
Deed Numbers: 169

Attachments

Volume Summary Table
Stand Table
Log Stock Table
Species, Sort, Grade Table
Logging Plan

9. Stand and Log Stock Tables Species Key

D – Douglas-fir
A – Red alder
SN – Other Conifer (Snag)
SS- Sitka Spruce
WH- Western Hemlock
RC- Western Red Cedar
NF- Noble fir
M – Big Leaf Maple



"STEWARDSHIP IN FORESTRY"

Edward's Butte

Volume Summary

Area 1-Modified Clearcut				
29 acres				
SPECIES	Cruised Net	Cruised Net	Hidden	Net Sale
	MBF/ Acre	MBF	D&B	MBF
Douglas-fir	34.365	996.6	2%	977
	0.000	0.0	2%	0
	0.0	0	2%	0
	0.0	0	2%	0
Alder	6.401	185.6	4%	178
TOTAL	40.77	1182		1155

Areas 2-Modified Clearcut				
77 acres				
SPECIES	Cruised Net	Cruised Net	Hidden	Net Sale
	MBF/ Acre	MBF	D&B	MBF
Douglas-fir	17.571	1353.0	2%	1326
Hemlock	0.000	0	2%	0
Spruce	0.000	0	2%	0
Noble Fir	0.000	0	2%	0
Alder	9.867	759.8	4%	729
TOTAL	27.44	2113		2055



"STEWARDSHIP IN FORESTRY"

Edward's Butte

Volume Summary



"STEWARDSHIP IN FORESTRY"

Edward's Butte

Volume Summary

TOTAL SALE VOLUME		106	acres
SPECIES	Cruised Net (MBF)	Net Sale (MBF)	
Douglas-fir	2350	2303	
Hemlock	0	0	
Spruce	0	0	
	0	0	
Red Alder	945	907	
TOTAL	3295	3210	

UNIT 1

Species, Sort Grade - Board Foot Volumes (Type)

Project: Edwards Butte

Page 1
Date 6/20/2023
Time 9:37:09AM

T2S R8W S14 T0100

T2S R8W S14 T0100

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt												
2S	8W	14	U1	0100	29.00	16	50	S	W												
Spp	S T	So rt	Gr ad	%	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	Dia	Bd	CF/ Lf	
									4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99	Ft	In	Ft		
D	1	2		32	.3	11,172	11,144	323			92	8				100	40	14	299	1.69	37.3
D	1	3		59	1.2	20,535	20,278	588		100				1	12	86	38	8	98	0.62	206.6
D	1	4		9		2,943	2,943	85		100			66	34			19	6	24	0.30	123.1
D Totals				83	.8	34,650	34,365	997		68	30	3	6	4	7	83	32	8	94	0.69	367.0
A	1	D															13	9		0.00	8.9
A	1	S		31		1,987	1,987	58		18	82		11			89	36	13	206	1.40	9.7
A	1	2		12		795	795	23		100						100	40	10	162	0.93	4.9
A	1	3		30		1,897	1,897	55		100			14		16	70	31	9	83	0.65	22.9
A	1	4		27		1,722	1,722	50		100			8	15	20	58	31	6	46	0.39	37.2
A Totals				16		6,401	6,401	186		75	25		9	4	10	76	30	8	77	0.63	83.5
M	1	D															6	8		0.00	5.5
M	1	3		17		71	71	2		100			100				20	9	50	1.01	1.4
M	1	4		83		331	331	10		100			27			73	33	7	53	0.51	6.3
M Totals				1		402	402	12		100			40			60	20	8	30	0.50	13.2
Type Totals					.7	41,453	41,168	1,194		69	29	2	7	4	8	82	31	8	89	0.68	463.7

Unit 2

Species, Sort Grade - Board Foot Volumes (Type)

Project: EBUTTE

Page 1
Date 8/30/2023
Time 2:07:26PM

T2S R8W S14 T0100

T2S R8W S14 T0100

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt												
2S	8W	14	U2	0100	77.00	40	91	S	W												
Spp	S T	So rt	Gr ad	% Net BdFt	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								
									4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99	Ln Ft	Dia In	Bd Ft	CF/ Lf	
D	1		D														8	16		0.00	.8
D	1	2		49	1.5	8,742	8,612	663		83	17			3	7	90	39	14	291	1.76	29.6
D	1	3		39	1.0	7,064	6,997	539	100				0	5	29	66	36	8	93	0.73	75.3
D	1	4		12	.7	1,976	1,962	151	100				41	56	3		21	6	23	0.36	84.4
D Totals				63	1.2	17,783	17,571	1,353		51	40	9	5	10	15	71	30	8	92	0.82	190.1
A	1		D														6	15		0.00	5.4
A	1		S	24	2.5	2,475	2,414	186		89	11			44	56		35	13	199	1.52	12.1
A	1	2		33	1.5	3,341	3,292	253	100					24	76		35	11	142	1.07	23.1
A	1	3		21		2,066	2,066	159	100				8	37	11	44	31	9	81	0.73	25.5
A	1	4		22	.8	2,110	2,094	161	100				42	27	16	15	24	6	31	0.46	67.4
A Totals				35	1.3	9,993	9,867	760		76	22	3	11	32	6	51	27	8	74	0.77	133.6
NF	1	2		90		532	532	41		11	89				11	89	37	17	482	2.39	1.1
NF	1	3		8		42	42	3	100						100		40	9	120	1.31	.4
NF	1	4		2		11	11	1	100				100				16	7	30	0.53	.4
NF Totals				2		586	586	45		9	10	81	2		10	88	33	13	319	1.96	1.8
Type Totals					1.2	28,362	28,024	2,158		59	33	8	7	17	12	64	29	8	86	0.81	325.6

Stand Table Summary																
Unit 1																
Project Edwards Butte																
T2S R8W S14 T0100										T2S R8W S14 T0100						
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page:	1							
2S	8W	14	U1	0100	29.00	16	50	Date:	06/20/2022							
								Time:	9:42:49AM							
S Spc	T	Sample		Av	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals			
		DBH	Trees	FF 16'				Ht Tot	Net Cu.Ft.				Net Bd.Ft.	Tons	Cunits	MBF
D		9	1	86	114	15.415	6.81	30.83	8.0	40.0	7.85	245	1,233	228	71	36
D		11	3	86	115	30.958	20.43	61.92	11.5	51.7	22.88	715	3,199	664	207	93
D		12	1	88	79	9.442	6.81	18.88	10.0	45.0	6.03	188	850	175	55	25
D		13	1	92	101	7.991	6.81	15.98	16.1	75.0	8.23	257	1,199	239	75	35
D		14	5	86	107	32.815	34.05	65.63	19.7	81.4	41.28	1,290	5,339	1,197	374	155
D		15	3	84	111	16.649	20.43	38.85	20.1	81.4	24.99	781	3,163	725	226	92
D		16	3	86	121	14.633	20.43	34.14	25.9	108.6	28.28	884	3,707	820	256	108
D		17	1	85	136	4.321	6.81	12.96	24.8	103.3	10.27	321	1,339	298	93	39
D		19	2	86	123	6.918	13.62	20.75	29.2	121.7	19.36	605	2,525	561	175	73
D		20	3	86	117	9.365	20.43	24.97	35.6	145.0	28.43	888	3,621	825	258	105
D		21	3	88	119	8.494	20.43	22.65	41.4	185.0	30.04	939	4,190	871	272	122
D		22	1	85	130	2.580	6.81	7.74	40.6	180.0	10.05	314	1,393	291	91	40
D		24	1	83	118	2.168	6.81	6.50	47.0	190.0	9.77	305	1,236	283	89	36
D		27	1	83	130	1.713	6.81	5.14	63.4	266.7	10.43	326	1,370	302	95	40
D		Totals	29	86	112	163.461	197.50	366.95	22.0	93.6	257.89	8,059	34,365	7,479	2,337	997
A		11	1	86	135	4.736	3.13	9.47	8.1	45.0	2.45	76	426	71	22	12
A		12	1	86	97	3.979	3.13	7.96	13.5	55.0	3.44	108	438	100	31	13
A		13	3	86	107	10.172	9.38	20.34	17.4	76.7	11.33	354	1,560	329	103	45
A		14	2	86	92	6.068	6.25	8.99	23.6	92.8	6.80	213	834	197	62	24
A		16	1	70	81	2.385	3.13	4.77	14.2	40.0	2.17	68	191	63	20	6
A		17	2	86	101	3.965	6.25	7.93	29.9	115.0	7.58	237	912	220	69	26
A		18	1	86	49	1.769	3.13	1.77	25.0	120.0	1.41	44	212	41	13	6
A		19	2	86	112	3.175	6.25	7.94	33.6	132.0	8.52	266	1,048	247	77	30
A		20	1	87	102	1.433	3.13	2.87	42.2	150.0	3.87	121	430	112	35	12
A		21	1	87	78	1.299	3.13	2.60	39.2	135.0	3.26	102	351	95	30	10
A		Totals	15	85	102	38.979	46.88	74.63	21.3	85.8	50.84	1,589	6,401	1,474	461	186
M		11	1	86	76	2.631	1.74	2.63	17.1	60.0	1.44	45	158	42	13	5
M		12	1	80	42	2.211	1.74	2.21	11.3	40.0	.80	25	88	23	7	3
M		13	1	75	20	1.884	1.74									
M		15	2	77	52	2.830	3.47	2.83	22.7	55.0	2.06	64	156	60	19	5
M		Totals	5	80	50	9.555	8.68	7.67	17.5	52.4	4.30	134	402	125	39	12
SN		63	1		17	.115	2.50									
SN		Totals	1		17	.115	2.50									
Totals			50	86	107	212.111	255.56	449.26	21.8	91.6	313.03	9782	41,168	9,078	2,837	1,194

Unit 2														Stand Table Summary		
Project														EBUTTE		
T2S R8W S14 T0100											T2S R8W S14 T0100					
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page:	1							
2S	8W	14	U2	0100	77.00	40	91	Date:	08/30/2021							
								Time:	7:03:12AM							
S Spc	T	Sample		Av	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals			
		DBH	Trees	FF 16'				Ht Tot	Net Cu.Ft.				Net Bd.Ft.	Tons	Cunits	MBF
D		8	1	78	17	8.068	2.82	8.07	3.3	10.0	.84	26	81	65	20	6
D		9	2	82	60	12.750	5.63	12.75	8.9	30.0	3.64	114	382	281	88	29
D		10	2	83	53	10.327	5.63	10.33	9.6	30.0	3.19	100	310	245	77	24
D		11	2	84	51	8.535	5.63	8.53	11.5	40.0	3.14	98	341	242	76	26
D		12	2	81	69	7.172	5.63	10.76	12.6	40.0	4.35	136	430	335	105	33
D		13	2	82	91	6.111	5.63	12.22	13.9	47.5	5.43	170	581	418	131	45
D		14	3	84	91	8.102	8.45	16.20	16.5	58.3	8.54	267	944	658	206	73
D		15	4	86	88	9.180	11.27	18.36	20.1	76.2	11.83	370	1,400	911	285	108
D		16	2	86	88	4.166	5.63	8.33	21.4	85.5	5.69	178	712	438	137	55
D		17	5	87	102	8.934	14.08	19.65	27.6	110.0	17.36	543	2,162	1,337	418	166
D		18	1	86	106	1.594	2.82	3.19	35.3	130.0	3.60	113	414	278	87	32
D		19	6	85	98	8.582	16.90	21.46	29.3	106.7	20.13	629	2,289	1,550	484	176
D		20	2	87	104	2.582	5.63	6.45	35.1	140.0	7.25	227	904	558	174	70
D		21	4	88	107	4.684	11.27	11.71	40.7	173.0	15.26	477	2,026	1,175	367	156
D		23	4	88	91	3.904	11.27	7.81	51.6	192.5	12.91	403	1,503	994	311	116
D		24	1	83	91	.896	2.82	1.79	58.3	200.0	3.35	105	359	258	81	28
D		25	4	83	103	3.305	11.27	7.44	57.7	220.0	13.73	429	1,636	1,057	330	126
D		26	1	82	121	.764	2.82	2.29	54.6	223.3	4.00	125	512	308	96	39
D		28	1	83	130	.659	2.82	1.98	67.5	296.7	4.27	133	586	329	103	45
D		Totals	49	84	77	110.314	138.00	189.32	24.5	92.8	148.54	4,642	17,571	11,437	3,574	1,353
A		12	1	82	55	3.561	2.80	3.56	16.7	50.0	1.90	59	178	146	46	14
A		13	5	86	78	15.171	13.98	27.31	14.4	51.1	12.58	393	1,396	969	303	107
A		14	4	87	59	10.465	11.19	15.70	16.0	51.7	8.01	250	811	617	193	62
A		15	3	85	84	6.837	8.39	13.67	18.9	68.3	8.29	259	934	638	199	72
A		16	3	86	80	6.009	8.39	12.02	21.3	83.3	8.18	256	1,002	630	197	77
A		17	5	82	69	8.872	13.98	14.19	23.7	76.2	10.76	336	1,082	829	259	83
A		18	7	86	81	11.262	19.58	22.52	27.5	97.1	19.82	619	2,186	1,526	477	168
A		19	2	87	64	2.919	5.59	4.34	32.8	113.1	4.56	142	491	351	110	38
A		20	3	87	75	3.912	8.39	7.82	32.3	106.6	8.09	253	834	623	195	64
A		22	1	86	77	1.059	2.80	2.12	41.6	135.0	2.82	88	286	217	68	22
A		23	1	82	61	.969	2.80	1.94	33.2	135.0	2.06	64	262	158	50	20
A		24	1	66	71	.890	2.80	1.78	19.1	70.0	1.09	34	125	84	26	10
A		29	1	86	60	.610	2.80	1.22	58.4	230.0	2.28	71	280	176	55	22
A		Totals	37	85	73	72.536	103.48	128.20	22.0	77.0	90.44	2,826	9,867	6,964	2,176	760
NF		27	1	92	110	.377	1.50	1.13	53.3	263.3	1.45	60	298	112	46	23
NF		28	1	94	103	.351	1.50	.70	84.9	410.0	1.43	60	288	110	46	22
NF		Totals	2	93	107	.728	3.00	1.83	65.4	319.5	2.88	120	586	222	92	45
SN		11	1		17	3.536	2.33									
SN		13	1		17	2.531	2.33									
SN		25	1		17	.684	2.33									
SN		Totals	3		17	6.752	7.00									
Totals			91	84	73	190.330	251.48	319.35	23.8	87.8	241.86	7588	28,024	18,623	5,843	2,158

UNIT 1

Log Stock Table - MBF

Project: **Edwards Butte**

T2S R8W S14 T0100

T2S R8W S14 T0100

Twp Rge Sec Tract
2S 8W 14 U1

Type Acres Plots Sample Trees
0100 29.00 16 50

Page 1
 Date **6/20/2023**
 Time **9:17:29AM**

Spp	T	S	So	Gr	Log	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
D		1	2		40	324	.3	323	32.4				107	132	84				
D		1	3		26	8		8	.8				8						
D		1	3		32	67	5.9	63	6.3				63						
D		1	3		34	9		9	.9				9						
D		1	3		36	10		10	1.0				10						
D		1	3		38	17		17	1.7				5	11					
D		1	3		40	485	.7	481	48.3				92	163	226				
D		1	4		14	5		5	.5				5						
D		1	4		16	37		37	3.7				37						
D		1	4		18	3		3	.3				3						
D		1	4		20	11		11	1.1				11						
D		1	4		24	15		15	1.5				15						
D		1	4		28	1		1	.1				1						
D		1	4		30	12		12	1.2				12						
D		Totals				1,005		997	83.5				202	246	226	107	132	84	
A		1	D		4														
A		1	D		16														
A		1	D		18														
A		1	S		20	6		6	3.3				6						
A		1	S		40	51		51	27.7				10	41					
A		1	2		40	23		23	12.4				23						
A		1	3		16	4		4	2.2				4						
A		1	3		20	3		3	1.9				3						
A		1	3		32	9		9	4.8				9						
A		1	3		36	5		5	2.5				5						
A		1	3		40	34		34	18.3				34						
A		1	4		12	0		0	.2				0						
A		1	4		16	2		2	1.2				2						
A		1	4		20	1		1	.6				1						
A		1	4		24	3		3	1.6				3						
A		1	4		26	2		2	1.1				2						
A		1	4		30	2		2	1.2				2						
A		1	4		32	10		10	5.3				10						
A		1	4		36	8		8	4.4				8						
A		1	4		40	21		21	11.1				21						
A		Totals				186		186	15.5				50	55	33	47			
M		1	D																
M		1	D		17														
M		1	3		20	2		2	17.6				2						
M		1	4		20	3		3	22.0				3						
M		1	4		40	7		7	60.4				7						
M		Totals				12		12	1.0				7	5					
Total All Species						1,202		1,194	100.0			258	306	259	154	132	84		

TC TLOGSTVB

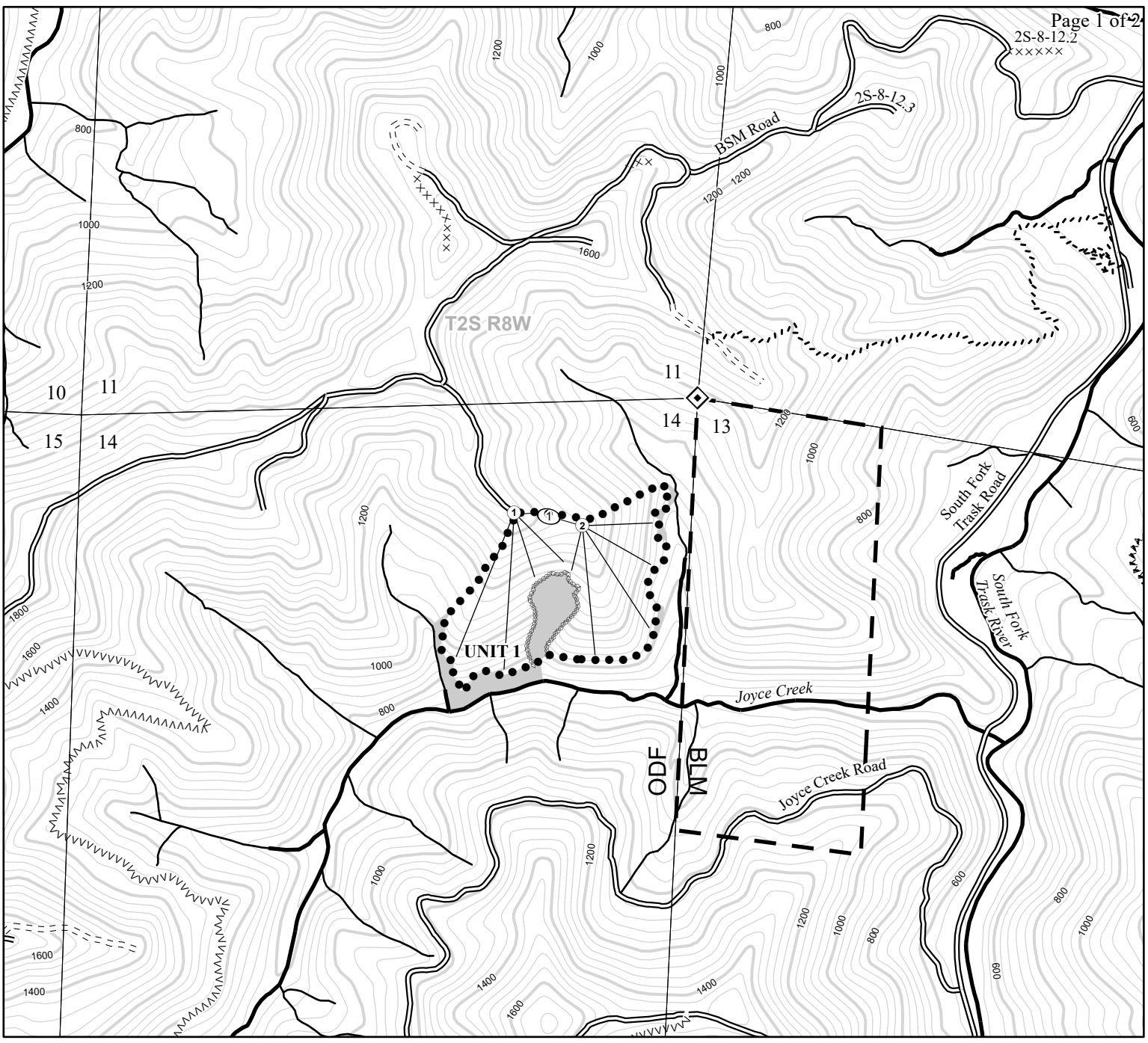
Log Stock Table - MBF
Project: EBUTTE

T2S R8W S14 T0100

T2S R8W S14 T0100

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page	2
2S	8W	14	U2	0100	77.00	40	91	Date	8/30/2023
								Time	7:03:11AM

Spp	T	S	So	Gr	Log	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
A		Totals				769	1.3	760	35.2			161	159	253	148		38			
NF		1	2	32		5		5	10.3					5						
NF		1	2	40		36		36	80.6							17	19			
NF		1	3	40		3		3	7.2			3								
NF		1	4	16		1		1	1.9		1									
NF		Totals				45		45	2.1		1	3		5		17	19			
Total All Species						2,184	1.2	2,158	100.0		413	382	473	384	208	279	19			



- Legend**
- ◆ Corners
 - Cable Landing
 - Cable Logging
 - ⋯ Recreation Trail
 - == Surfaced Road
 - - - Unsurfaced Road
 - xxx Blocked Road
 - vvvv Abandoned Road
 - Non-Project Road
 - Type-F Stream
 - Type-N Stream
 - Sections
 - 200' Contour
 - 40' Contour
 - ⊎ Riparian Boundary
 - Timber Sale Boundary
 - ┌ ┐ Property Line

LOGGING PLAN

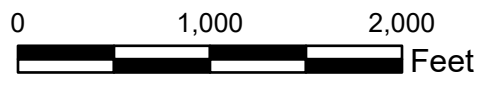
FOR TIMBER SALE CONTRACT TL-341-2024-W00969-01
EDWARDS BUTTE
PORTIONS OF SECTIONS 14, 15, 16, 21, 22, of T2S R8W W.M.
TILLAMOOK COUNTY, OREGON

Tillamook District GIS
AUGUST, 2023

This product is for informational use and may not be
suitable for legal, engineering, or surveying purposes.

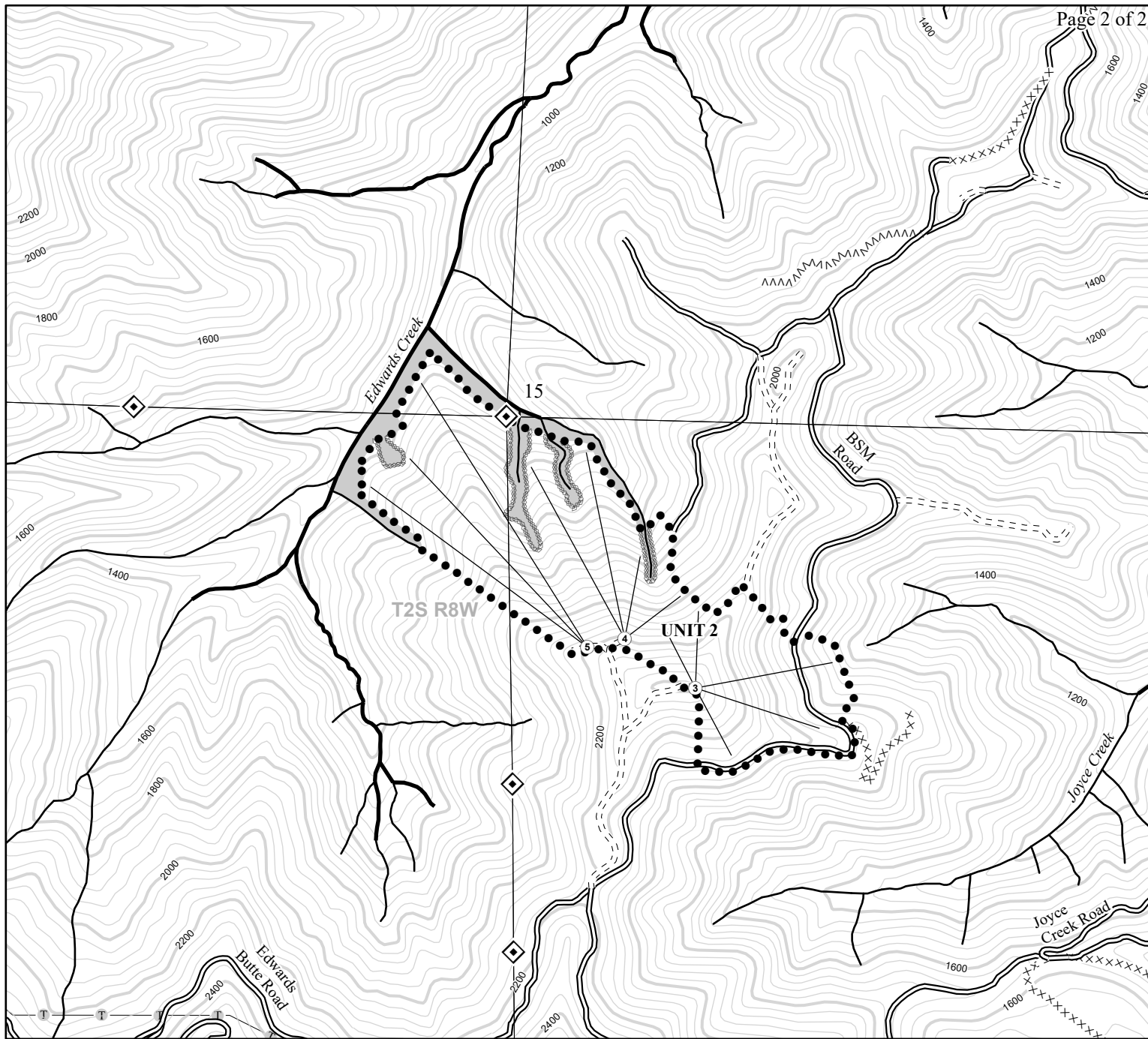


1:12,000
1 inch = 1,000 feet



NET ACRES

	GROUND	CABLE	TOTAL
UNIT 1	0	29	29
UNIT 2	0	77	77
TOTAL	0	106	106



Legend

- ◊ Corners
- Cable Landing
- Cable Logging
- == Surfaced Road
- - - Unsurfaced Road
- xxx Blocked Road
- vvvv Abandoned Road
- Type-F Stream
- Type-N Stream
- Sections
- 200' Contour
- 40' Contour
- ▤ Riparian Boundary
- Timber Sale Boundary
- ┌ ┐ Property Line

LOGGING PLAN

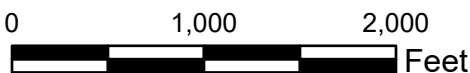
FOR TIMBER SALE CONTRACT TL-341-2024-W00969-01
 EDWARDS BUTTE
 PORTIONS OF SECTIONS 14, 15, 16, 21, 22, of T2S R8W W.M.
 TILLAMOOK COUNTY, OREGON

Tillamook District GIS
 AUGUST, 2023

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



NET ACRES

	GROUND	CABLE	TOTAL
UNIT 1	0	29	29
UNIT 2	0	77	77
TOTAL	0	106	106