Timber Sale Appraisal
Mad Merrill

Sale NC-341-2024-W01101-01

District: N Cascade

Date: October 16, 2023

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	$2,653,155.28	$0.00	$2,653,155.28
		Project Work:	($238,435.81)
		Advertised Value:	$2,414,719.47

Timber Sale Appraisal
Mad Merrill
Sale NC-341-2024-W01101-01

District: N Cascade **Date: October 16, 2023**

Timber Description

Location: Portions of Sections 5, 6, 7, 8 of T10S R4E W.M., Linn County, Oregon

Stand Stocking: 40%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	19	0	97
Western Hemlock / Fir	12	0	95
Red Cedar	23	0	95

Volume by Grade	2S	3S & 4S 6"-11"	SM & Better	Camprun	Total
Douglas - Fir	3,593	818	333	0	4,744
Western Hemlock / Fir	29	95	0	0	124
Red Cedar	0	0	0	64	64
Total	3,622	913	333	64	4,932

Comments: Pond Values Used: Local Pond Values, August 2023

Red Alder and Other Hardwoods Stumpage Price = Pond Value minus Logging Cost:
$197.67/MBF = $500.00/MBF - $302.33/MBF

BRANDING AND PAINTING COST ALLOWANCE = $2.00/MBF

FUEL COST ALLOWANCE = $5.00/Gallon

HAULING COST ALLOWANCE
Hauling costs equivalent to $1,250 daily truck cost.

SLASH DISPOSAL COSTS:

In-Unit Piling: $250/acre x 16.7 = 4,175

Move-In: (($120/hr loaded transport)+($22/hr x 2 Pilots)) x 4 hour Move-In Cycle= $656

Equipment Weed Wash: (($120/hr loaded transport)+($22/hr x 2 pilot/wash personnel)) x 2.5 hour wash time= $355 x 1 Excavator = $410

Covering Piles:($12/pile x 48) + ($22/hr x 2 covering personnel x 16 hours) = $1,280.00

TOTAL Slash Disposal Costs= $6,521

Season 1 Equipment Move-In: Accounted for in Logging Cost

Season 1 Equipment Weed Wash: ($30/hr X 2 personnel) X 5 hour wash time = $300 X 4 pieces of equipment = $1,200

Season 2 Equipment Move-In: (($250.00/hr loaded transport) + ($25.00/hr x 2 pilots per piece of equipment)) X 4 hour Move-In Cycle = $1,200 X 4 pieces of equipment = $4,800

Season 2 Equipment Weed Wash: ($30/hr X 2 personnel) X 5 hour wash time = $300 X 4 pieces of equipment = $1,200

TOTAL Other Costs (with Profit & Risk to be added) = $7,200
TOTAL Other Costs (No Profit & Risk added): None

ROAD MAINTENANCE COSTS
Move-In: $300/hr loaded transport X 4 hour Move-In Cycle = $1,200 X 1 Grader = $1,200
General Road Maintenance: 4.5 miles X $1,100/mile + (move in $1200) = $6,150
TOTAL Road Maintenance Costs = $6,150/4,935 MBF = $1.24/MBF

District: N Cascade **Date: October 16, 2023**

Logging Conditions

Combination#: 1

Douglas - Fir	84.00%
Western Hemlock / Fir	84.00%
Red Cedar	84.00%

Logging System: Cable: Large Tower >=70 **Process:** Manual Falling/Delimbing

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

tree size: Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF

loads / day: 9 **bd. ft / load:** 5000

cost / mbf: $190.65

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

Combination#: 2

Douglas - Fir	16.00%
Western Hemlock / Fir	16.00%
Red Cedar	16.00%

Logging System: Shovel **Process:** Feller Buncher

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

tree size: Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF

loads / day: 15 **bd. ft / load:** 5000

cost / mbf: $133.33

machines: Feller Buncher w/ Delimber

Timber Sale Appraisal
Mad Merrill
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District: N Cascade **Date: October 16, 2023**

Logging Costs

Operating Seasons:	2.00	**Profit Risk:**	10%
Project Costs:	$238,435.81	**Other Costs (P/R):**	$7,200.00
Slash Disposal:	$6,521.00	**Other Costs:**	$0.00

Miles of Road

Road Maintenance: $1.24

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
Western Hemlock / Fir	$0.00	2.0	4.5
Red Cedar	$0.00	1.0	4.5

Timber Sale Appraisal
Mad Merrill

Sale NC-341-2024-W01101-01

District: N Cascade

Date: October 16, 2023

Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
Douglas - Fir									
$181.48	$1.28	$1.78	$85.83	$1.46	$27.18	$1.32	$2.00	$0.00	$302.33
Western Hemlock / Fir									
$181.48	$1.30	$1.78	$145.83	$1.46	$33.18	$1.32	$2.00	$0.00	$368.35
Red Cedar									
$181.48	$1.30	$1.78	$291.67	$1.46	$47.77	$1.32	$2.00	$0.00	$528.78

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	$0.00	$850.90	$548.57	$0.00
Western Hemlock / Fir	$0.00	$451.23	$82.88	$0.00
Red Cedar	$0.00	$1,161.00	$632.22	$0.00

Timber Sale Appraisal
Mad Merrill
Sale NC-341-2024-W01101-01

District: N Cascade **Date: October 16, 2023**

Summary

Amortized

Specie	MBF	Value	Total
Douglas - Fir	0	$0.00	$0.00
Western Hemlock / Fir	0	$0.00	$0.00
Red Cedar	0	$0.00	$0.00

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	4,744	$548.57	$2,602,416.08
Western Hemlock / Fir	124	$82.88	$10,277.12
Red Cedar	64	$632.22	$40,462.08

Gross Timber Sale Value

Recovery: $2,653,155.28

Prepared By: Seth Knight **Phone:** 503-302-4886

Pulp Appraisal

Sale Name	Mad Merrill

Species	All Species
Stems Per/ac.	250
Acres	104
Total Stems	26000
BF/Stem, Conversion	10
Total MBF Per/Species	260
Pond Value Per/MBF	$ 270.00
Logging + Hauling Costs	$ 269.31
Additional Loading Costs	$ -
Stumpage	$ 0.69
Tons Per/MBF, Conversion	10
Price Per/Ton	$ 0.07
Total Tons Per/Species	2600
Total Value	$ 179.40

	Total Price	Price/Ton	Price/MBF
	$ 179.40	$ 0.07	$ 0.69

Contract Price ($/MBF)	**$ 0.69**
Contract Price ($/Ton)	**$ 0.07**

TIMBER SALE SUMMARY
Mad Merrill
Contract No. NC-341-2024-W01101-01

Location: Portions of Section 5, 6, 7 & 8, T10S, R4E, W.M, Linn County, Oregon.

Type of Sale: Unit 1 of this timber sale is 104.77 acres of modified clearcut. Unit 2 (R/W) is .15 acres of clearcut for road building. The timber will be sold on a recovery basis at a sealed bid auction.

Revenue Distribution: 100% BOF, Linn County, Oregon.

Sale Acreage: Acres are net of stream buffers and road prisms. Acreage was determined using ESRI ArcMap GIS software.

Cruise: The timber sale was cruised by ODF foresters in September of 2023. For more information see Cruise Report.

Timber Description: The Timber Sale Area consists primarily of moderately stocked 84-year old Douglas-fir with other mixed conifers and scattered hardwoods. The average Douglas-fir DBH is 25 inches. The estimated net per acre volume averages 47.1 MBF. The total volume for all species is 4,935 MBF.

Volume Summary: See attached document (Timber Sale Notice).

Topography and Logging Method: The elevation for the Timber Sale ranges from 2400 – 2800 feet. Slopes within the sale range from 0 – 65%. The Timber Sale is 84% ground-based and 16% cable logging.

Access: From Gates, head south on Horeb St, continue slight left onto E Sorbin St and across the river about .5 miles. Turn right onto Gates School Rd, continue for about 1.25 miles, and turn left onto Monument Peak Road where it turns to gravel. Stay on the mainline for 2.5 miles before turning left onto Mad Creek Rd. Continue about 2 miles to the Timber Sale Area.

Projects:

Project No. 1: New Construction	$ 13,238.76
Project No. 2: Road Improvement	$ 71,007.54
Project No. 3: Stockpile Rock	$ 138,696.48
Project No. 4: Roadside Brushing	$ 15,493.03
Total Credit for all Projects	$ 238,435.81

MAD MERRILL TIMBER SALE

Project No. 1

NEW CONSTRUCT:

		Rocking				
Segments	Length	Pit Run (MC 440)	Borrow On-Site	1.5"- 0"	End Push	Construct $
G2 to G3	1+61	137 cy		27 cy	200 cy	$ 4,508.76
Totals		137 cy		27 cy		

MOVE-IN: $ 8,730.00

Total miles 0.03 **Project No. 1** $ 13,238.76

Project No. 2

ROAD IMPROVEMENT:

		Rocking			
Segments	Length/sites	Pit Run or On-site	Borrow On-Site	1.5"- 0"	Construct $
A to A1	1+24	48 cy		31 cy	$ 2,150.60
Roadside Landings	6	180 cy		102 cy	$ 10,569.41
G to G1	6+95				$ 173.75
J to J1	12+60				$ 630.00
K to K1	98+25		6 cy	48 cy	$ 7,345.90
L to L1	34+04				$ 851.00
L2 to L3	15+05				$ 376.25
L to L5	3+15				$ 63.00
M to M1	310+91		9 cy	72 cy	$ 11,384.63
N to N1	116+43			1,979 cy	$ 37,238.75
N2 to N3	11+49				$ 287.25
Total	588+52	228 cy	15 cy	2,232 cy	$ 71,070.54

Total miles 11.15 **Project No. 2** $ 71,070.54

Project No.3

STOCKPILE ROCK:

			$ per Cubic Yard			
Destination.	Size	Cubic Yards	Crush and Haul	Piled	Combined	Total $
Mad Creek 0.5-mile	1.5"- 0"	3,500 cy	$ 16.81	$ 5.96	$ 22.77	$ 79,690.68
MC 500 Pit	6"- 0"	1,500 cy	$ 9.94	$ 2.00	$ 11.94	$ 17,912.71
Potato Hill Stockpile	1.5"- 0"	2,000 cy	$ 16.81	$ 3.74	$ 20.55	$ 41,093.09

Project No. 3 $ 138,696.48

Project No. 4

ROADSIDE BRUSHING:

Segments	Length	Miles	$/mile	Total $
G to G1	6+95	0.13	$ 800.00	$ 105.30
K to K1 (Potato Hill Rd)	98+25	1.86	$ 1,500.00	$ 2,791.19
L to L1	34+04	0.64	$ 1,200.00	$ 773.64
L2 to L3	1+24	0.02	$ 1,500.00	$ 35.23
L4 to L5	3+15	0.06	$ 800.00	$ 47.73
M to M1 (Mad Creek Rd)	310+91	5.89	$ 1,500.00	$ 8,832.67
N to N1	116+43	2.21	$ 1,200.00	$ 2,646.14
N2 to N3	11+49	0.22	$ 1,200.00	$ 261.14
Total	575+51	10.90		$ 15,493.03

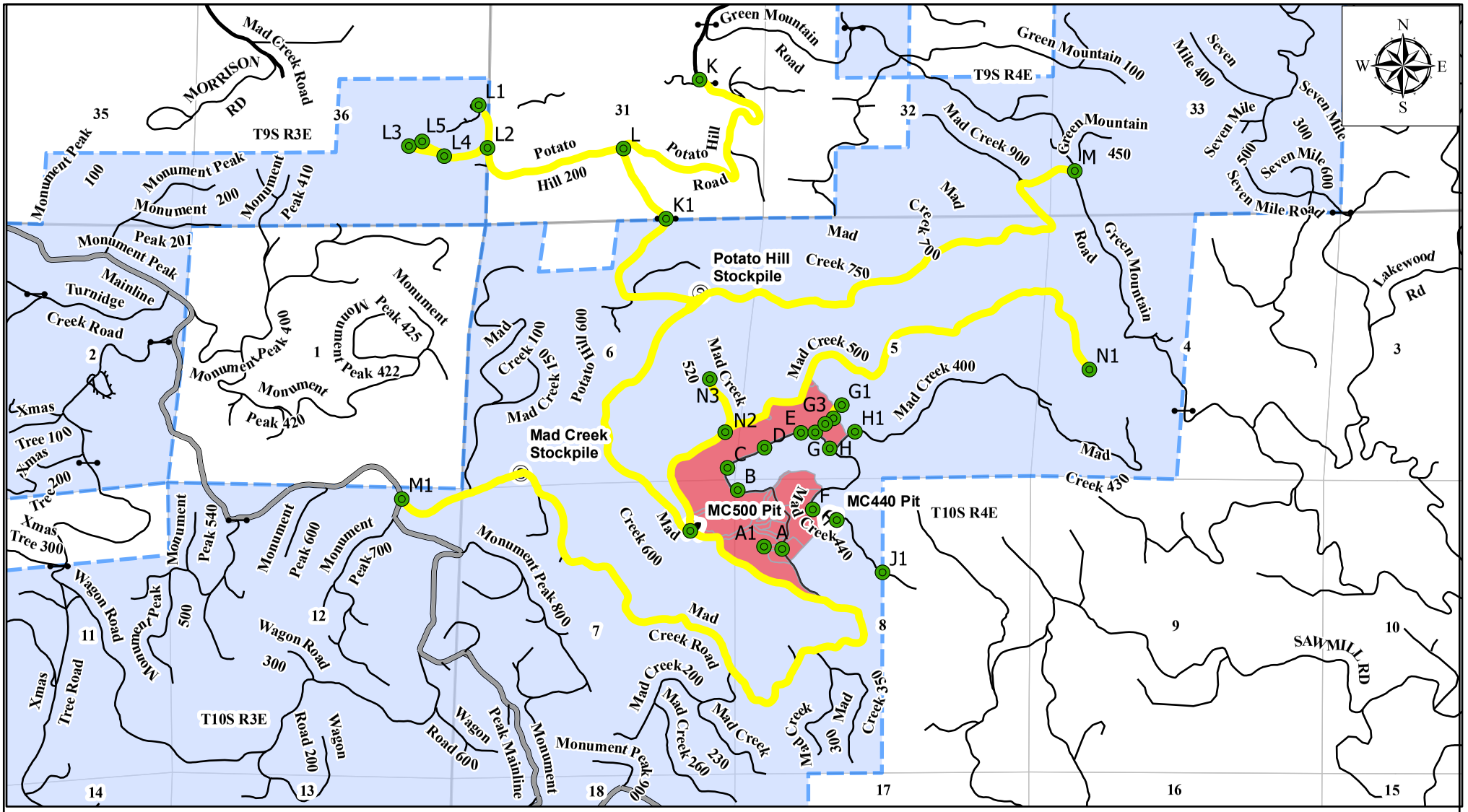
Total miles 10.90 **Project No. 4** $ 15,493.03

ROCK SUMMARY TABLE:

Rock Totals				
Location	Size of Rock	Needed for Roads	Stockpile	To Crushed
MC 500 Pit	1.5"- 0" Crushed	2,260 cy	3,500 cy	5,760 cy
Borrow On-Site	8" +	15 cy	n/a	n/a
MC 500 Pit (Crush & Stockpile)	6"- 0"		1,500 cy	1,500 cy
Use the MC 440 Stockpile for Spurs	Pit Run	365 cy	365 cy	n/a
Potato Hill Stockpile	1.5"- 0" Crushed		2,000 cy	2,000 cy

Note: The rock crushing, haul and place is included in the road rocking cost on each segment.

GRAND TOTAL	$ 238,498.81



Legend

- Gates
- NC Rockpits
- NC Stockpiles
- Timber Sale Area

Roads

- City Road
- Mainline Road
- All Weather
- Santiam State Forest
- Project Points
- Road Brushing

ROAD BRUSHING MAP

FOR TIMBER SALE CONTRACT # NC-341-2024-W01101-01
MAD MERRILL
PORTIONS OF SECTIONS 5,6,7 & 8 , T10S R4E, W.M.
LINN COUNTY

North Cascade District GIS
September 2023
This product is for informational use and may not be suitable for legal, engineering, or surveying purposes.

0 1,000 2,000 Feet

APPROXIMATE NET ACRES		
UNIT 1	104.77	ACRES (MC)
UNIT 2	.15	ACRES (R/W)
TOTAL	104.92	ACRES (MC)

CRUISE REPORT
MAD MERRILL
Contract No. NC-341-2024-W01101-01

1. Locations:

Portions of Sections 5, 6, 7 & 8, T10S, R4E, W.M., Linn County, Oregon.

2. Cruise Design:

The cruise design for the timber sale is as follows:

Unit 1: A desired sampling error of 12% at a 68% confidence level was needed. 41 plots were installed in this area utilizing a 40 BAF. The achieved standard error on the net board foot volume was 5%.

3. Sampling Methods:

Unit 1 was cruised in September 2023, the sale contained 41 cruise/count Plots. Plots falling on or near existing roads, no-harvest areas, or riparian management areas were offset 1/2 chain. The timber sale was cruised with a 40 BAF.

4. Cruise Report:

Unit 1: A full cruise was performed. Stand was cruised using a Count/Measure sample with a 40 BAF, and taking total tree height, grading each log on the cruise plots. Counting number of trees in on the count plots.

5. Tree Measurement and Grading:

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

a) **Height Standards:**
Total tree heights were measured to the nearest foot. Bole heights were calculated to 25% of DBH.
b) **Diameter Standards:** Diameters were measured outside bark at breast height to the nearest tenth of an inch.
c) **Form Factors** were measured for each grade tree using a form point of 16 feet.

5. Data Processing:

a) **Volumes and Statistics:** Cruise, volume estimates, and sampling statistics were derived from ODF's Timber Resource Inventory System.

b) **Deductions:** Defect was measured in the stand at all cruise plots, and extrapolated across the total acreage.

c) **Acreage:** Unit 1 has a total net acres of 104.77.
Unit 2 (R/W) has a total net acres of .15.

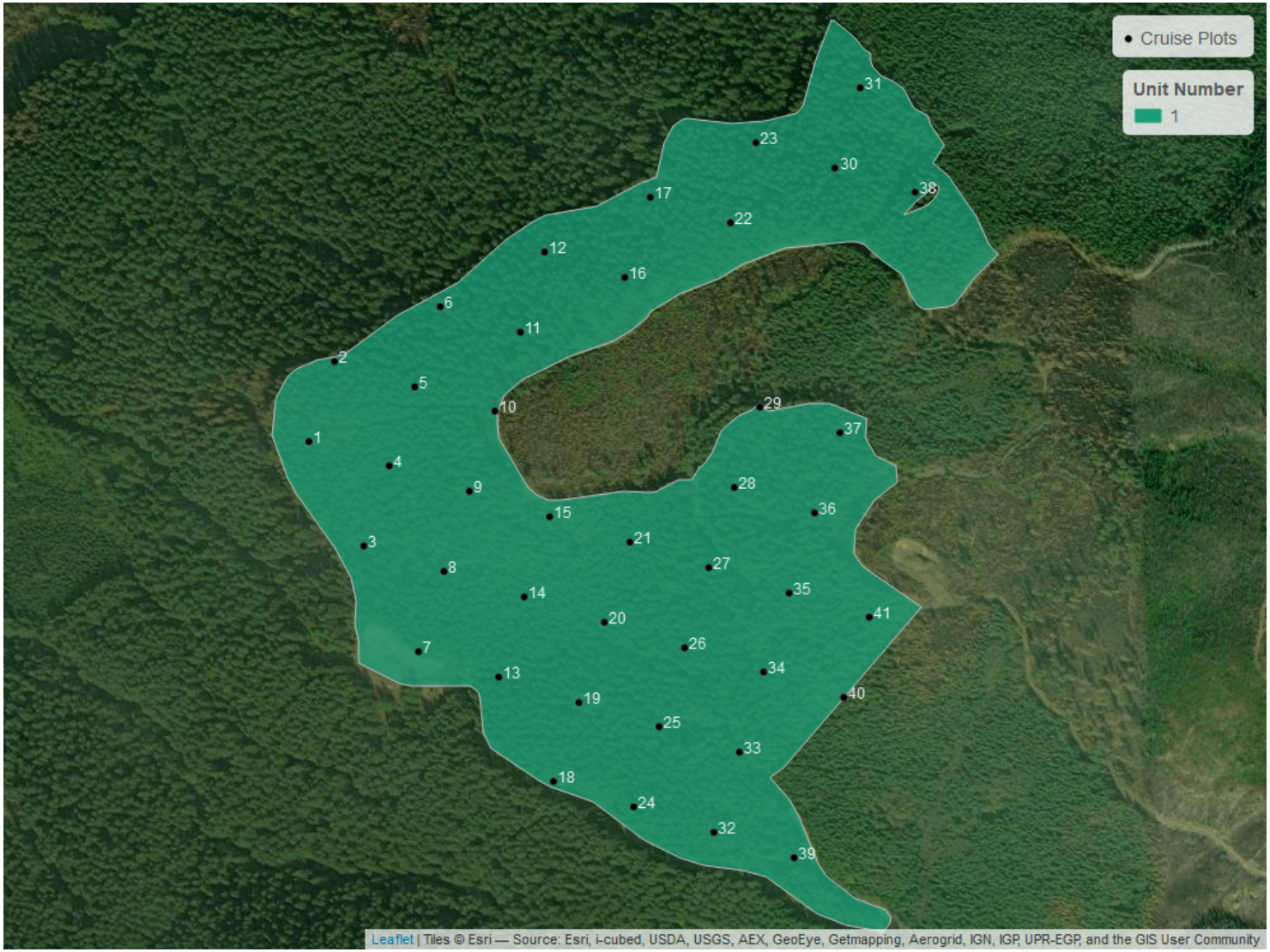
6. Cruisers:

Unit 1 was cruised by ODF cruisers Knight and Stuart

ODF TRIS REPORT

PROJECT: Mad Merrill **LEGAL DESCRIPTION:** T10S R4E Section(s) 5, 6, 7, 8 W.M. **DATE:** Thursday October 12, 2023 **TIME:** 09:57:48 PDT

Map of Mad Merrill Unit 3725



ODF TRIS REPORT

COMPLETE REPORT

LOG STOCK TABLE

Leave Prescription

No Trees Assigned Leave Prescription in Cruise

Species Subtotals

No Trees Assigned Leave Prescription in Cruise

Unit Total

No Trees Assigned Leave Prescription in Cruise

Harvest Prescription

Species	Sort	Grade	Log Length	Gross MBF	Net MBF	Defect	Proportion of Volume for Species	Net Merchantable Volume (MBF) by Log Diameter (in)												
								0 - 1	2 - 3	4 - 5	6 - 7	8 - 9	10 - 11	12 - 13	14 - 15	16 - 19	20 - 23	24 - 29	30 - 39	40 +
DF	A	SM	32	333.63	332.81	0%	7%	0	0	0	0	0	0	0	0	49	226	57	0	0
DF	D	2S	20	20.18	20.43	-1%	0%	0	0	0	0	0	0	0	0	0	0	0	20	0
DF	D	2S	32	3627.73	3572.74	1%	75%	0	0	0	0	0	0	417	679	1395	838	245	0	0
DF	D	3S	30	23.54	19.06	19%	0%	0	0	0	0	0	0	0	0	19	0	0	0	0
DF	D	3S	32	610.66	618.02	-1%	13%	0	0	0	32	203	296	47	0	15	26	0	0	0
DF	D	3S	40	7.32	7.41	-1%	0%	0	0	0	7	0	0	0	0	0	0	0	0	0
DF	D	4S	12	9.50	9.61	-1%	0%	0	0	6	0	0	0	0	4	0	0	0	0	0
DF	D	4S	13	9.11	9.22	-1%	0%	0	0	9	0	0	0	0	0	0	0	0	0	0
DF	D	4S	14	1.22	1.23	-1%	0%	0	0	1	0	0	0	0	0	0	0	0	0	0
DF	D	4S	15	1.86	1.88	-1%	0%	0	0	2	0	0	0	0	0	0	0	0	0	0
DF	D	4S	16	4.56	4.62	-1%	0%	0	0	2	1	2	0	0	0	0	0	0	0	0
DF	D	4S	17	3.98	4.03	-1%	0%	0	0	2	0	2	0	0	0	0	0	0	0	0
DF	D	4S	18	1.65	1.67	-1%	0%	0	0	2	0	0	0	0	0	0	0	0	0	0
DF	D	4S	19	1.17	1.18	-1%	0%	0	0	1	0	0	0	0	0	0	0	0	0	0
DF	D	4S	20	8.96	9.06	-1%	0%	0	0	9	0	0	0	0	0	0	0	0	0	0
DF	D	4S	21	5.45	5.52	-1%	0%	0	0	6	0	0	0	0	0	0	0	0	0	0
DF	D	4S	22	6.94	7.02	-1%	0%	0	0	7	0	0	0	0	0	0	0	0	0	0
DF	D	4S	23	9.39	9.50	-1%	0%	0	0	10	0	0	0	0	0	0	0	0	0	0
DF	D	4S	24	2.32	2.35	-1%	0%	0	0	2	0	0	0	0	0	0	0	0	0	0
DF	D	4S	25	3.66	3.71	-1%	0%	0	0	4	0	0	0	0	0	0	0	0	0	0
DF	D	4S	26	8.86	8.97	-1%	0%	0	0	9	0	0	0	0	0	0	0	0	0	0
DF	D	4S	27	8.67	8.77	-1%	0%	0	0	6	0	2	0	0	0	0	0	0	0	0
DF	D	4S	28	6.26	6.33	-1%	0%	0	0	6	0	0	0	0	0	0	0	0	0	0
DF	D	4S	29	3.94	3.99	-1%	0%	0	0	4	0	0	0	0	0	0	0	0	0	0
DF	D	4S	30	2.84	2.87	-1%	0%	0	0	3	0	0	0	0	0	0	0	0	0	0
DF	D	4S	31	8.31	8.41	-1%	0%	0	0	6	0	2	0	0	0	0	0	0	0	0
DF	D	4S	32	8.60	8.70	-1%	0%	0	0	9	0	0	0	0	0	0	0	0	0	0
DF	D	4S	33	8.49	8.60	-1%	0%	0	0	9	0	0	0	0	0	0	0	0	0	0

ODF TRIS REPORT

(continued)

Species	Sort	Grade	Log Length	Gross MBF	Net MBF	Defect	Proportion of Volume for Species	0 - 1	2 - 3	4 - 5	6 - 7	8 - 9	10 - 11	12 - 13	14 - 15	16 - 19	20 - 23	24 - 29	30 - 39	40 +
DF	D	4S	34	4.28	4.33	-1%	0%	0	0	4	0	0	0	0	0	0	0	0	0	0
DF	D	4S	35	6.13	6.20	-1%	0%	0	0	6	0	0	0	0	0	0	0	0	0	0
DF	D	4S	36	6.42	6.49	-1%	0%	0	0	6	0	0	0	0	0	0	0	0	0	0
DF	D	4S	37	1.73	1.75	-1%	0%	0	0	2	0	0	0	0	0	0	0	0	0	0
DF	D	4S	38	4.30	4.36	-1%	0%	0	0	2	0	3	0	0	0	0	0	0	0	0
DF	D	4S	39	8.55	8.65	-1%	0%	0	0	3	5	0	0	0	0	0	0	0	0	0
DF	D	4S	40	13.53	13.69	-1%	0%	0	0	14	0	0	0	0	0	0	0	0	0	0
DF	PU	UT	33	2.75	2.78	-1%	0%	0	0	3	0	0	0	0	0	0	0	0	0	0
RC	D	3S	32	61.08	57.47	5%	89%	0	0	0	0	0	0	16	0	13	0	29	0	0
RC	D	4S	30	5.22	5.63	-7%	8%	0	0	0	0	6	0	0	0	0	0	0	0	0
RC	D	4S	33	1.14	1.23	-7%	1%	0	0	1	0	0	0	0	0	0	0	0	0	0
WH	D	2S	32	29.42	29.42	0%	23%	0	0	0	0	0	0	0	9	20	0	0	0	0
WH	D	3S	32	39.02	39.02	0%	31%	0	0	0	0	39	0	0	0	0	0	0	0	0
WH	D	4S	17	3.31	3.31	0%	2%	0	0	3	0	0	0	0	0	0	0	0	0	0
WH	D	4S	19	2.73	2.73	0%	2%	0	0	3	0	0	0	0	0	0	0	0	0	0
WH	D	4S	25	3.90	3.90	0%	3%	0	0	4	0	0	0	0	0	0	0	0	0	0
WH	D	4S	30	12.84	12.84	0%	10%	0	0	13	0	0	0	0	0	0	0	0	0	0
WH	D	4S	32	19.71	19.71	0%	15%	0	0	20	0	0	0	0	0	0	0	0	0	0
WH	D	4S	33	12.51	12.51	0%	10%	0	0	13	0	0	0	0	0	0	0	0	0	0
WH	D	4S	34	1.50	1.50	0%	1%	0	0	1	0	0	0	0	0	0	0	0	0	0

Species Subtotals

Species	Sort	Grade	Log Length	Gross MBF	Net MBF	Defect	Proportion of Volume for Species	Net Merchantable Volume (MBF) by Log Diameter (in) 0 - 1	2 - 3	4 - 5	6 - 7	8 - 9	10 - 11	12 - 13	14 - 15	16 - 19	20 - 23	24 - 29	30 - 39	40 +
DF	-	-	-	4796.49	4745.96	0%	100%	0	0	155	45	214	296	464	683	1478	1090	302	20	0
RC	-	-	-	67.44	64.33	-3%	100%	0	0	1	0	6	0	16	0	13	0	29	0	0
WH	-	-	-	124.94	124.94	0%	100%	0	0	57	0	39	0	0	9	20	0	0	0	0

Unit Total

Species	Sort	Grade	Log Length	Gross MBF	Net MBF	Defect	Proportion of Volume for Species	Net Merchantable Volume (MBF) by Log Diameter (in) 0 - 1	2 - 3	4 - 5	6 - 7	8 - 9	10 - 11	12 - 13	14 - 15	16 - 19	20 - 23	24 - 29	30 - 39	40 +
TOTAL	-	-	-	4988.87	4935.23	0%		0	0	213	45	259	296	480	692	1511	1090	331	20	0

All Prescriptions

ODF TRIS REPORT

Species	Sort	Grade	Log Length	Gross MBF	Net MBF	Defect	Proportion of Volume for Species	Net Merchantable Volume (MBF) by Log Diameter (in)											
								0 - 1	2 - 3	4 - 5	6 - 7	8 - 9	10 - 11	12 - 13	14 - 15	16 - 19	20 - 23	24 - 29	30 - 39	40 +
DF	A	SM	32	333.63	332.81	0%	7%	0	0	0	0	0	0	0	0	49	226	57	0	0
DF	D	2S	20	20.18	20.43	-1%	0%	0	0	0	0	0	0	0	0	0	0	0	20	0
DF	D	2S	32	3627.73	3572.74	1%	75%	0	0	0	0	0	0	417	679	1395	838	245	0	0
DF	D	3S	30	23.54	19.06	19%	0%	0	0	0	0	0	0	0	0	19	0	0	0	0
DF	D	3S	32	610.66	618.02	-1%	13%	0	0	0	32	203	296	47	0	15	26	0	0	0
DF	D	3S	40	7.32	7.41	-1%	0%	0	0	0	7	0	0	0	0	0	0	0	0	0
DF	D	4S	12	9.50	9.61	-1%	0%	0	0	6	0	0	0	0	4	0	0	0	0	0
DF	D	4S	13	9.11	9.22	-1%	0%	0	0	9	0	0	0	0	0	0	0	0	0	0
DF	D	4S	14	1.22	1.23	-1%	0%	0	0	1	0	0	0	0	0	0	0	0	0	0
DF	D	4S	15	1.86	1.88	-1%	0%	0	0	2	0	0	0	0	0	0	0	0	0	0
DF	D	4S	16	4.56	4.62	-1%	0%	0	0	2	1	2	0	0	0	0	0	0	0	0
DF	D	4S	17	3.98	4.03	-1%	0%	0	0	2	0	2	0	0	0	0	0	0	0	0
DF	D	4S	18	1.65	1.67	-1%	0%	0	0	2	0	0	0	0	0	0	0	0	0	0
DF	D	4S	19	1.17	1.18	-1%	0%	0	0	1	0	0	0	0	0	0	0	0	0	0
DF	D	4S	20	8.96	9.06	-1%	0%	0	0	9	0	0	0	0	0	0	0	0	0	0
DF	D	4S	21	5.45	5.52	-1%	0%	0	0	6	0	0	0	0	0	0	0	0	0	0
DF	D	4S	22	6.94	7.02	-1%	0%	0	0	7	0	0	0	0	0	0	0	0	0	0
DF	D	4S	23	9.39	9.50	-1%	0%	0	0	10	0	0	0	0	0	0	0	0	0	0
DF	D	4S	24	2.32	2.35	-1%	0%	0	0	2	0	0	0	0	0	0	0	0	0	0
DF	D	4S	25	3.66	3.71	-1%	0%	0	0	4	0	0	0	0	0	0	0	0	0	0
DF	D	4S	26	8.86	8.97	-1%	0%	0	0	9	0	0	0	0	0	0	0	0	0	0
DF	D	4S	27	8.67	8.77	-1%	0%	0	0	6	0	2	0	0	0	0	0	0	0	0
DF	D	4S	28	6.26	6.33	-1%	0%	0	0	6	0	0	0	0	0	0	0	0	0	0
DF	D	4S	29	3.94	3.99	-1%	0%	0	0	4	0	0	0	0	0	0	0	0	0	0
DF	D	4S	30	2.84	2.87	-1%	0%	0	0	3	0	0	0	0	0	0	0	0	0	0
DF	D	4S	31	8.31	8.41	-1%	0%	0	0	6	0	2	0	0	0	0	0	0	0	0
DF	D	4S	32	8.60	8.70	-1%	0%	0	0	9	0	0	0	0	0	0	0	0	0	0
DF	D	4S	33	8.49	8.60	-1%	0%	0	0	9	0	0	0	0	0	0	0	0	0	0
DF	D	4S	34	4.28	4.33	-1%	0%	0	0	4	0	0	0	0	0	0	0	0	0	0
DF	D	4S	35	6.13	6.20	-1%	0%	0	0	6	0	0	0	0	0	0	0	0	0	0
DF	D	4S	36	6.42	6.49	-1%	0%	0	0	6	0	0	0	0	0	0	0	0	0	0
DF	D	4S	37	1.73	1.75	-1%	0%	0	0	2	0	0	0	0	0	0	0	0	0	0
DF	D	4S	38	4.30	4.36	-1%	0%	0	0	2	0	3	0	0	0	0	0	0	0	0
DF	D	4S	39	8.55	8.65	-1%	0%	0	0	3	5	0	0	0	0	0	0	0	0	0
DF	D	4S	40	13.53	13.69	-1%	0%	0	0	14	0	0	0	0	0	0	0	0	0	0
DF	PU	UT	33	2.75	2.78	-1%	0%	0	0	3	0	0	0	0	0	0	0	0	0	0
RC	D	3S	32	61.08	57.47	5%	89%	0	0	0	0	0	0	16	0	13	0	29	0	0
RC	D	4S	30	5.22	5.63	-7%	8%	0	0	0	0	6	0	0	0	0	0	0	0	0
RC	D	4S	33	1.14	1.23	-7%	1%	0	0	1	0	0	0	0	0	0	0	0	0	0
WH	D	2S	32	29.42	29.42	0%	23%	0	0	0	0	0	0	0	9	20	0	0	0	0
WH	D	3S	32	39.02	39.02	0%	31%	0	0	0	0	39	0	0	0	0	0	0	0	0
WH	D	4S	17	3.31	3.31	0%	2%	0	0	3	0	0	0	0	0	0	0	0	0	0
WH	D	4S	19	2.73	2.73	0%	2%	0	0	3	0	0	0	0	0	0	0	0	0	0
WH	D	4S	25	3.90	3.90	0%	3%	0	0	4	0	0	0	0	0	0	0	0	0	0
WH	D	4S	30	12.84	12.84	0%	10%	0	0	13	0	0	0	0	0	0	0	0	0	0

ODF TRIS REPORT

(continued)

Species	Sort	Grade	Log Length	Gross MBF	Net MBF	Defect	Proportion of Volume for Species	0 - 1	2 - 3	4 - 5	6 - 7	8 - 9	10 - 11	12 - 13	14 - 15	16 - 19	20 - 23	24 - 29	30 - 39	40 +
WH	D	4S	32	19.71	19.71	0%	15%	0	0	20	0	0	0	0	0	0	0	0	0	0
WH	D	4S	33	12.51	12.51	0%	10%	0	0	13	0	0	0	0	0	0	0	0	0	0
WH	D	4S	34	1.50	1.50	0%	1%	0	0	1	0	0	0	0	0	0	0	0	0	0

Species Subtotals

								Net Merchantable Volume (MBF) by Log Diameter (in)												
Species	Sort	Grade	Log Length	Gross MBF	Net MBF	Defect	Proportion of Volume for Species	0 - 1	2 - 3	4 - 5	6 - 7	8 - 9	10 - 11	12 - 13	14 - 15	16 - 19	20 - 23	24 - 29	30 - 39	40 +
DF	-	-	-	4796.49	4745.96	0%	100%	0	0	155	45	214	296	464	683	1478	1090	302	20	0
RC	-	-	-	67.44	64.33	-3%	100%	0	0	1	0	6	0	16	0	13	0	29	0	0
WH	-	-	-	124.94	124.94	0%	100%	0	0	57	0	39	0	0	9	20	0	0	0	0

Unit Total

								Net Merchantable Volume (MBF) by Log Diameter (in)												
Species	Sort	Grade	Log Length	Gross MBF	Net MBF	Defect	Proportion of Volume for Species	0 - 1	2 - 3	4 - 5	6 - 7	8 - 9	10 - 11	12 - 13	14 - 15	16 - 19	20 - 23	24 - 29	30 - 39	40 +
TOTAL	-	-	-	4988.87	4935.23	0%		0	0	213	45	259	296	480	692	1511	1090	331	20	0

ODF TRIS REPORT

SPECIES, SORT, AND GRADE

Leave Prescription

No Trees Assigned Leave Prescription in Cruise

Species Subtotals

No Trees Assigned Leave Prescription in Cruise

Unit Total

Species	Sort	Grade	Merchantable Volume (Board Feet Per Acre)			Total Net Merchantable Volume (MBF)	Net Board Feet by Log Diameter (in)				Net Board Feet by Log Length (ft)				Average Diameter (in)	Average Length (ft)	Average Board Feet	Average Cubic Feet	Logs per acre
			Defect	Net	Gross		4-5	6-11	12-16	17+	11-20	21-30	31-35	39-99					
TOTAL	-	-		0	0	0	0%	0%	0%	0%	0%	0%	0%	0%	0	0	0	0	0

Harvest Prescription

Species	Sort	Grade	Merchantable Volume (Board Feet per Acre)			Total Net Merchantable Volume (MBF)	Proportion of Net Merchantable Volume by Log Diameter (in)				Proportion of Net Merchantable Volume by Log Length (ft)				Average Diameter (in)	Average Length (ft)	Average Board Feet	Average Cubic Feet	Logs per acre
			Defect	Net	Gross		4-5	6-11	12-16	17+	11-20	21-30	31-35	39-99					
DF	D	2S	3%	34295.78	34818.30	3593.17			31%	69%	1%		99%		17.58	31.93	390.45	76.82	182
DF	PU	UT	0%	26.53	26.21	2.78		100%					100%		5.50	33.00	35.00	16.00	1
DF	D	4S	0%	1648.65	1629.01	172.73	79%	18%	2%		25%	34%	21%	20%	5.39	23.83	28.29	10.39	94
DF	D	3S	1%	6151.46	6123.11	644.49		56%	35%	9%		3%	96%	1%	10.25	32.17	117.51	31.33	82
DF	A	SM	1%	3176.60	3184.37	332.81				100%			100%		21.97	32.00	644.50	113.58	12
RC	D	3S	8%	548.58	582.97	57.47			30%	70%			100%		18.26	32.00	409.80	108.80	5
RC	D	4S	0%	65.52	60.67	6.86	38%	62%				62%	38%		6.17	32.67	42.67	24.67	3
WH	D	2S	0%	280.83	280.83	29.42			32%	68%			100%		17.10	32.00	354.00	73.50	2
WH	D	3S	0%	372.40	372.40	39.02		100%					100%		9.20	32.00	85.33	23.33	3
WH	D	4S	0%	539.22	539.22	56.49	85%	15%			9%	25%	66%		5.07	28.56	30.33	10.56	9

Species Subtotals

Species	Sort	Grade	Merchantable Volume (Board Feet per Acre)			Total Net Merchantable Volume (MBF)	Net Board Feet by Log Diameter (in)				Net Board Feet by Log Length (ft)				Average Diameter (in)	Average Length (ft)	Average Board Feet	Average Cubic Feet	Logs per acre
			Defect	Net	Gross		4-5	6-11	12-16	17+	11-20	21-30	31-35	39-99					
DF	-	-	1%	45299.02	45781.00	4745.98	3%	8%	28%	60%	2%	2%	96%	1%	12.14	30.59	243.15	49.62	371
RC	-	-	4%	614.10	643.64	64.33	4%	7%	27%	63%	0%	7%	93%	0%	12.21	32.34	226.24	66.74	8
WH	-	-	0%	1192.45	1192.45	124.93	38%	38%	8%	16%	4%	11%	85%	0%	10.46	30.85	156.55	35.80	14

Unit Total

ODF TRIS REPORT

Species	Sort	Grade	Merchantable Volume (Board Feet Per Acre)			Total Net Merchantable Volume (MBF)	Net Board Feet by Log Diameter (in)				Net Board Feet by Log Length (ft)				Average Diameter (in)	Average Length (ft)	Average Board Feet	Average Cubic Feet	Logs per acre
			Defect	Net	Gross		4-5	6-11	12-16	17+	11-20	21-30	31-35	39-99					
TOTAL	-	-	1.3%	47105.57	47617.09	4935.24	4%	9%	28%	59%	2%	2%	96%	1%	11.65	31.02	213.79	48.9	393

All Prescriptions

Species	Sort	Grade	Merchantable Volume (Board Feet per Acre)			Total Net Merchantable Volume (MBF)	Proportion of Net Merchantable Volume by Log Diameter (in)				Proportion of Net Merchantable Volume by Log Length (ft)				Average Diameter (in)	Average Length (ft)	Average Board Feet	Average Cubic Feet	Logs per acre
			Defect	Net	Gross		4-5	6-11	12-16	17+	11-20	21-30	31-35	39-99					
DF	D	2S	3%	34295.78	34818.30	3593.17			31%	69%	1%		99%		17.58	31.93	390.45	76.82	182
DF	PU	UT	0%	26.53	26.21	2.78		100%					100%		5.50	33.00	35.00	16.00	1
DF	D	4S	0%	1648.65	1629.01	172.73	79%	18%	2%		25%	34%	21%	20%	5.39	23.83	28.29	10.39	94
DF	D	3S	1%	6151.46	6123.11	644.49		56%	35%	9%		3%	96%	1%	10.25	32.17	117.51	31.33	82
DF	A	SM	1%	3176.60	3184.37	332.81				100%			100%		21.97	32.00	644.50	113.58	12
RC	D	3S	8%	548.58	582.97	57.47			30%	70%			100%		18.26	32.00	409.80	108.80	5
RC	D	4S	0%	65.52	60.67	6.86	38%	62%				62%	38%		6.17	32.67	42.67	24.67	3
WH	D	2S	0%	280.83	280.83	29.42			32%	68%			100%		17.10	32.00	354.00	73.50	2
WH	D	3S	0%	372.40	372.40	39.02		100%					100%		9.20	32.00	85.33	23.33	3
WH	D	4S	0%	539.22	539.22	56.49	85%	15%			9%	25%	66%		5.07	28.56	30.33	10.56	9

Species Subtotals

Species	Sort	Grade	Merchantable Volume (Board Feet per Acre)			Total Net Merchantable Volume (MBF)	Net Board Feet by Log Diameter (in)				Net Board Feet by Log Length (ft)				Average Diameter (in)	Average Length (ft)	Average Board Feet	Average Cubic Feet	Logs per acre
			Defect	Net	Gross		4-5	6-11	12-16	17+	11-20	21-30	31-35	39-99					
DF	-	-	1%	45299.02	45781.00	4745.98	3%	8%	28%	60%	2%	2%	96%	1%	12.14	30.59	243.15	49.62	371
RC	-	-	4%	614.10	643.64	64.33	4%	7%	27%	63%	0%	7%	93%	0%	12.21	32.34	226.24	66.74	8
WH	-	-	0%	1192.45	1192.45	124.93	38%	38%	8%	16%	4%	11%	85%	0%	10.46	30.85	156.55	35.80	14

Unit Total

Species	Sort	Grade	Merchantable Volume (Board Feet Per Acre)			Total Net Merchantable Volume (MBF)	Net Board Feet by Log Diameter (in)				Net Board Feet by Log Length (ft)				Average Diameter (in)	Average Length (ft)	Average Board Feet	Average Cubic Feet	Logs per acre
			Defect	Net	Gross		4-5	6-11	12-16	17+	11-20	21-30	31-35	39-99					
TOTAL	-	-	1.3%	47105.57	47617.09	4935.24	4%	9%	28%	59%	2%	2%	96%	1%	11.65	31.02	213.79	48.9	393

ODF TRIS REPORT

STAND TABLE

Leave Prescription

No Trees Assigned Leave Prescription in Cruise

Species Subtotals

No Trees Assigned Leave Prescription in Cruise

Unit Total

Species	DBH	Tree Count	Form Factor	Height	Trees per Acre	Basal Area per Acre	Logs per Acre	Average Net Cubic Feet	Average Net Board Feet	Net Cubic Feet per Acre	Net Board Feet per Acre	Cunit	MBF
TOTAL	-	0	0	0	0	0	0	0	0	0	0	0	0

Harvest Prescription

Species	DBH	Tree Count	Form Factor	Height	Trees per Acre	Basal Area per Acre	Logs per Acre	Average Net Cubic Feet	Average Net Board Feet	Net Cubic Feet per Acre	Net Board Feet per Acre	Cunit	MBF
DF	14	2	85.00	87.00	3.65	2.62	3.05	64.00	18.50	103.70	362.83	108.64	38.01
DF	16	3	85.00	110.00	4.11	1.96	3.05	78.33	19.67	123.97	499.40	129.88	52.32
DF	17	6	83.50	116.50	7.65	3.64	6.09	82.50	21.50	251.17	974.40	263.15	102.09
DF	18	12	85.50	114.00	13.96	6.57	12.19	91.75	24.08	508.12	1961.02	532.36	205.46
DF	19	6	86.00	105.50	6.45	3.07	6.09	92.67	24.17	238.20	923.58	249.56	96.76
DF	20	3	84.00	112.00	2.88	1.37	3.05	104.67	28.33	125.04	467.18	131.00	48.95
DF	21	16	87.63	118.81	13.34	5.87	15.24	145.19	33.13	665.71	2951.97	697.46	309.28
DF	22	34	85.79	124.35	27.15	10.99	30.47	143.53	34.21	1367.37	5802.11	1432.60	607.89
DF	23	17	85.41	129.53	12.26	5.08	15.24	153.71	37.71	696.13	2865.92	729.34	300.26
DF	24	15	86.20	135.80	9.73	3.67	12.19	178.87	40.40	594.05	2656.62	622.38	278.33
DF	25	12	87.00	137.00	7.12	2.53	9.14	204.17	41.92	453.68	2235.29	475.32	234.19
DF	26	45	86.47	144.62	25.81	8.63	33.52	220.09	45.84	1735.11	8425.95	1817.87	882.79
DF	27	34	86.44	146.26	17.64	5.76	24.38	235.59	48.12	1261.03	6244.76	1321.18	654.26
DF	28	24	87.17	142.50	11.57	4.05	18.28	249.17	54.29	941.38	4376.20	986.29	458.49
DF	29	38	85.87	149.55	16.95	5.55	27.43	290.74	58.24	1461.21	7379.84	1530.91	773.19
DF	30	27	84.19	155.59	11.45	3.56	18.28	277.30	56.93	975.83	4810.66	1022.38	504.01
DF	31	14	85.71	155.71	5.39	1.64	9.14	323.93	61.43	503.12	2683.80	527.12	281.18
DF	32	9	83.67	158.44	3.25	1.03	6.09	320.22	66.11	328.28	1607.03	343.94	168.37
DF	33	16	81.75	141.50	5.46	1.93	12.19	338.81	72.50	599.66	2837.02	628.26	297.23
DF	34	4	87.00	143.00	1.28	0.46	3.05	434.50	79.75	156.87	864.41	164.35	90.56
DF	35	5	85.00	172.00	1.50	0.43	3.05	390.60	77.80	178.43	906.06	186.95	94.93
DF	36	5	87.00	168.00	1.46	0.42	3.05	436.00	79.80	178.92	988.71	187.45	103.59
DF	38	15	84.67	168.33	3.85	1.09	9.14	499.80	89.73	524.80	2956.14	549.83	309.71
DF	40	9	84.44	156.22	2.09	0.66	6.09	523.67	100.00	318.88	1689.64	334.09	177.02
RC	23	2	66.00	82.00	1.84	1.12	3.46	106.50	47.50	120.34	282.81	126.08	29.63
RC	38	3	80.00	122.00	0.97	0.39	3.46	406.33	109.00	144.99	566.52	151.91	59.35
WH	8	1	90.00	48.00	5.27	5.78	2.37	32.00	7.00	44.86	207.72	47.00	21.76

ODF TRIS REPORT

(continued)

Species	DBH	Tree Count	Form Factor	Height	Trees per Acre	Basal Area per Acre	Logs per Acre	Average Net Cubic Feet	Average Net Board Feet	Net Cubic Feet per Acre	Net Board Feet per Acre	Cunit	MBF
WH	9	2	90.00	50.50	9.63	10.42	4.73	34.50	8.50	98.08	403.48	102.76	42.27
WH	12	3	81.67	61.67	7.76	5.74	4.73	40.67	14.00	132.12	379.89	138.42	39.80
WH	14	4	87.00	70.50	7.48	4.05	4.73	58.25	16.25	145.91	530.02	152.86	55.53
WH	26	3	88.00	113.00	1.64	0.60	2.37	248.00	56.33	112.17	500.24	117.52	52.41

Species Subtotals

Species	DBH	Tree Count	Form Factor	Height	Trees per Acre	Basal Area per Acre	Logs per Acre	Average Net Cubic Feet	Average Net Board Feet	Net Cubic Feet per Acre	Net Board Feet per Acre	Cunit	MBF
DF	-	371	85.67	141.26	216	83	289	245.62	50.96	14291	67471	14972	7069
RC	-	5	74.40	106.00	3	2	7	286.40	84.40	265	849	278	89
WH	-	13	86.69	73.46	32	27	19	92.31	23.08	533	2021	559	212

Unit Total

Species	DBH	Tree Count	Form Factor	Height	Trees per Acre	Basal Area per Acre	Logs per Acre	Average Net Cubic Feet	Average Net Board Feet	Net Cubic Feet per Acre	Net Board Feet per Acre	Cunit	MBF
TOTAL	-	389	85.56	138.55	250.59	110.68	315.34	241.02	50.46	15089.13	70341.22	15808.86	7369.62

All Prescriptions

Species	DBH	Tree Count	Form Factor	Height	Trees per Acre	Basal Area per Acre	Logs per Acre	Average Net Cubic Feet	Average Net Board Feet	Net Cubic Feet per Acre	Net Board Feet per Acre	Cunit	MBF
DF	14	2	85.00	87.00	3.65	2.62	3.05	64.00	18.50	103.70	362.83	108.64	38.01
DF	16	3	85.00	110.00	4.11	1.96	3.05	78.33	19.67	123.97	499.40	129.88	52.32
DF	17	6	83.50	116.50	7.65	3.64	6.09	82.50	21.50	251.17	974.40	263.15	102.09
DF	18	12	85.50	114.00	13.96	6.57	12.19	91.75	24.08	508.12	1961.02	532.36	205.46
DF	19	6	86.00	105.50	6.45	3.07	6.09	92.67	24.17	238.20	923.58	249.56	96.76
DF	20	3	84.00	112.00	2.88	1.37	3.05	104.67	28.33	125.04	467.18	131.00	48.95
DF	21	16	87.63	118.81	13.34	5.87	15.24	145.19	33.13	665.71	2951.97	697.46	309.28
DF	22	34	85.79	124.35	27.15	10.99	30.47	143.53	34.21	1367.37	5802.11	1432.60	607.89
DF	23	17	85.41	129.53	12.26	5.08	15.24	153.71	37.71	696.13	2865.92	729.34	300.26
DF	24	15	86.20	135.80	9.73	3.67	12.19	178.87	40.40	594.05	2656.62	622.38	278.33
DF	25	12	87.00	137.00	7.12	2.53	9.14	204.17	41.92	453.68	2235.29	475.32	234.19
DF	26	45	86.47	144.62	25.81	8.63	33.52	220.09	45.84	1735.11	8425.95	1817.87	882.79
DF	27	34	86.44	146.26	17.64	5.76	24.38	235.59	48.12	1261.03	6244.76	1321.18	654.26
DF	28	24	87.17	142.50	11.57	4.05	18.28	249.17	54.29	941.38	4376.20	986.29	458.49

ODF TRIS REPORT

(continued)

Species	DBH	Tree Count	Form Factor	Height	Trees per Acre	Basal Area per Acre	Logs per Acre	Average Net Cubic Feet	Average Net Board Feet	Net Cubic Feet per Acre	Net Board Feet per Acre	Cunit	MBF
DF	29	38	85.87	149.55	16.95	5.55	27.43	290.74	58.24	1461.21	7379.84	1530.91	773.19
DF	30	27	84.19	155.59	11.45	3.56	18.28	277.30	56.93	975.83	4810.66	1022.38	504.01
DF	31	14	85.71	155.71	5.39	1.64	9.14	323.93	61.43	503.12	2683.80	527.12	281.18
DF	32	9	83.67	158.44	3.25	1.03	6.09	320.22	66.11	328.28	1607.03	343.94	168.37
DF	33	16	81.75	141.50	5.46	1.93	12.19	338.81	72.50	599.66	2837.02	628.26	297.23
DF	34	4	87.00	143.00	1.28	0.46	3.05	434.50	79.75	156.87	864.41	164.35	90.56
DF	35	5	85.00	172.00	1.50	0.43	3.05	390.60	77.80	178.43	906.06	186.95	94.93
DF	36	5	87.00	168.00	1.46	0.42	3.05	436.00	79.80	178.92	988.71	187.45	103.59
DF	38	15	84.67	168.33	3.85	1.09	9.14	499.80	89.73	524.80	2956.14	549.83	309.71
DF	40	9	84.44	156.22	2.09	0.66	6.09	523.67	100.00	318.88	1689.64	334.09	177.02
RC	23	2	66.00	82.00	1.84	1.12	3.46	106.50	47.50	120.34	282.81	126.08	29.63
RC	38	3	80.00	122.00	0.97	0.39	3.46	406.33	109.00	144.99	566.52	151.91	59.35
WH	8	1	90.00	48.00	5.27	5.78	2.37	32.00	7.00	44.86	207.72	47.00	21.76
WH	9	2	90.00	50.50	9.63	10.42	4.73	34.50	8.50	98.08	403.48	102.76	42.27
WH	12	3	81.67	61.67	7.76	5.74	4.73	40.67	14.00	132.12	379.89	138.42	39.80
WH	14	4	87.00	70.50	7.48	4.05	4.73	58.25	16.25	145.91	530.02	152.86	55.53
WH	26	3	88.00	113.00	1.64	0.60	2.37	248.00	56.33	112.17	500.24	117.52	52.41

Species Subtotals

Species	DBH	Tree Count	Form Factor	Height	Trees per Acre	Basal Area per Acre	Logs per Acre	Average Net Cubic Feet	Average Net Board Feet	Net Cubic Feet per Acre	Net Board Feet per Acre	Cunit	MBF
DF	-	371	85.67	141.26	216.00	82.58	289.49	245.62	50.96	14290.66	67470.54	14972.31	7068.87
RC	-	5	74.40	106.00	2.81	1.51	6.92	286.40	84.40	265.33	849.33	277.99	88.98
WH	-	13	86.69	73.46	31.78	26.59	18.93	92.31	23.08	533.14	2021.35	558.56	211.77

Unit Total

Species	DBH	Tree Count	Form Factor	Height	Trees per Acre	Basal Area per Acre	Logs per Acre	Average Net Cubic Feet	Average Net Board Feet	Net Cubic Feet per Acre	Net Board Feet per Acre	Cunit	MBF
TOTAL	-	389	85.56	138.55	250.59	110.68	315.34	241.02	50.46	15089.13	70341.22	15808.86	7369.62

ODF TRIS REPORT

STAND SUMMARY

Species	Trees per Acre	Sample Trees	Quadratic Mean Diameter	Bole Length	Relative Density	Net Board Feet per Acre	Gross Board Feet per Acre	Net Cubic Feet per Acre	Gross Cubic Feet per Acre	Basal Area
DF	27	197	18.68	122.03	31.98	21115.74	21597.72	4523.45	4523.45	192.20
RC	0	5	23.69	94.67	0.00	383.59	413.13	115.33	115.33	4.88
WH	13	11	12.45	49.78	3.06	851.82	851.82	231.15	231.15	10.73

ODF TRIS REPORT

STATISTICS

Trees per Acre

Statistics by Species

Species	Coefficient of Variation	Standard Error of Mean	Lower Limit of Confidence Interval	Average	Upper Limit of Confidence Interval
DF	38.8%	8.7%	52.39	57.38	62.36
RC	345.2%	77.2%	0.22	0.97	1.72
WH	239.1%	53.5%	8.70	18.70	28.70

Statistics across all Species

Species	Coefficient of Variation	Standard Error of Mean	Lower Limit of Confidence Interval	Average	Upper Limit of Confidence Interval
Total	53.6	11.99	67.81	77.04	86.28

Note:

Power Analysis: Given the total coefficient of variation for this sample

115 plots would be necessary to achieve a standard error of 5% of the mean value of trees per acre

29 plots would be necessary to achieve a standard error of 10% of the mean value of trees per acre

13 plots would be necessary to achieve a standard error of 15% of the mean value of trees per acre

Basal Area per Acre

Statistics by Species

Species	Coefficient of Variation	Standard Error of Mean	Lower Limit of Confidence Interval	Average	Upper Limit of Confidence Interval
DF	0%	0%	40.00	40	40.00
RC	307.8%	68.8%	1.25	4	6.75
WH	177.7%	39.7%	6.03	10	13.97

Statistics across all Species

Species	Coefficient of Variation	Standard Error of Mean	Lower Limit of Confidence Interval	Average	Upper Limit of Confidence Interval
Total	36.25	8.11	49.62	54	58.38

Note:

Power Analysis: Given the total coefficient of variation for this sample

53 plots would be necessary to achieve a standard error of 5% of the mean value of basal area per acre

13 plots would be necessary to achieve a standard error of 10% of the mean value of basal area per acre

6 plots would be necessary to achieve a standard error of 15% of the mean value of basal area per acre

Sample Tree Basal Area

Statistics by Species

ODF TRIS REPORT

Species	Coefficient of Variation	Standard Error of Mean	Lower Limit of Confidence Interval	Average	Upper Limit of Confidence Interval
DF	32.4%	7.2%	3.38	3.65	3.91
RC	68.1%	48.1%	2.79	5.37	7.96
WH	101.7%	45.5%	0.73	1.33	1.94

Statistics across all species

Species	Coefficient of Variation	Standard Error of Mean	Lower Limit of Confidence Interval	Average	Upper Limit of Confidence Interval
Total	51.6	9.93	3.01	3.35	3.68

Note:

Power Analysis: Given the total coefficient of variationfor this sample

106 trees would be necessary to achieve a standard error of 5% of the mean value of sample tree basal area

27 trees would be necessary to achieve a standard error of 10% of the mean value of sample tree basal area

12 trees would be necessary to achieve a standard error of 15% of the mean value of sample tree basal area

Net Board Feet *Statistics by Species*

Species	Coefficient of Variation	Standard Error of Mean	Lower Limit of Confidence Interval	Average	Upper Limit of Confidence Interval
DF	25.4%	5.7%	40823.44	43286.04	45748.64
RC	307.8%	68.8%	143.17	459.24	775.32
WH	212.9%	47.6%	760.75	1451.99	2143.23

Statistics across all species

Species	Coefficient of Variation	Standard Error of Mean	Lower Limit of Confidence Interval	Average	Upper Limit of Confidence Interval
Total	22.69	5.07	42903.63	45197.27	47490.92

Note:

Power Analysis: Given the total coefficient of variation for this sample

21 plots would be necessary to achieve a standard error of 5% of the mean value of net board feet per acre

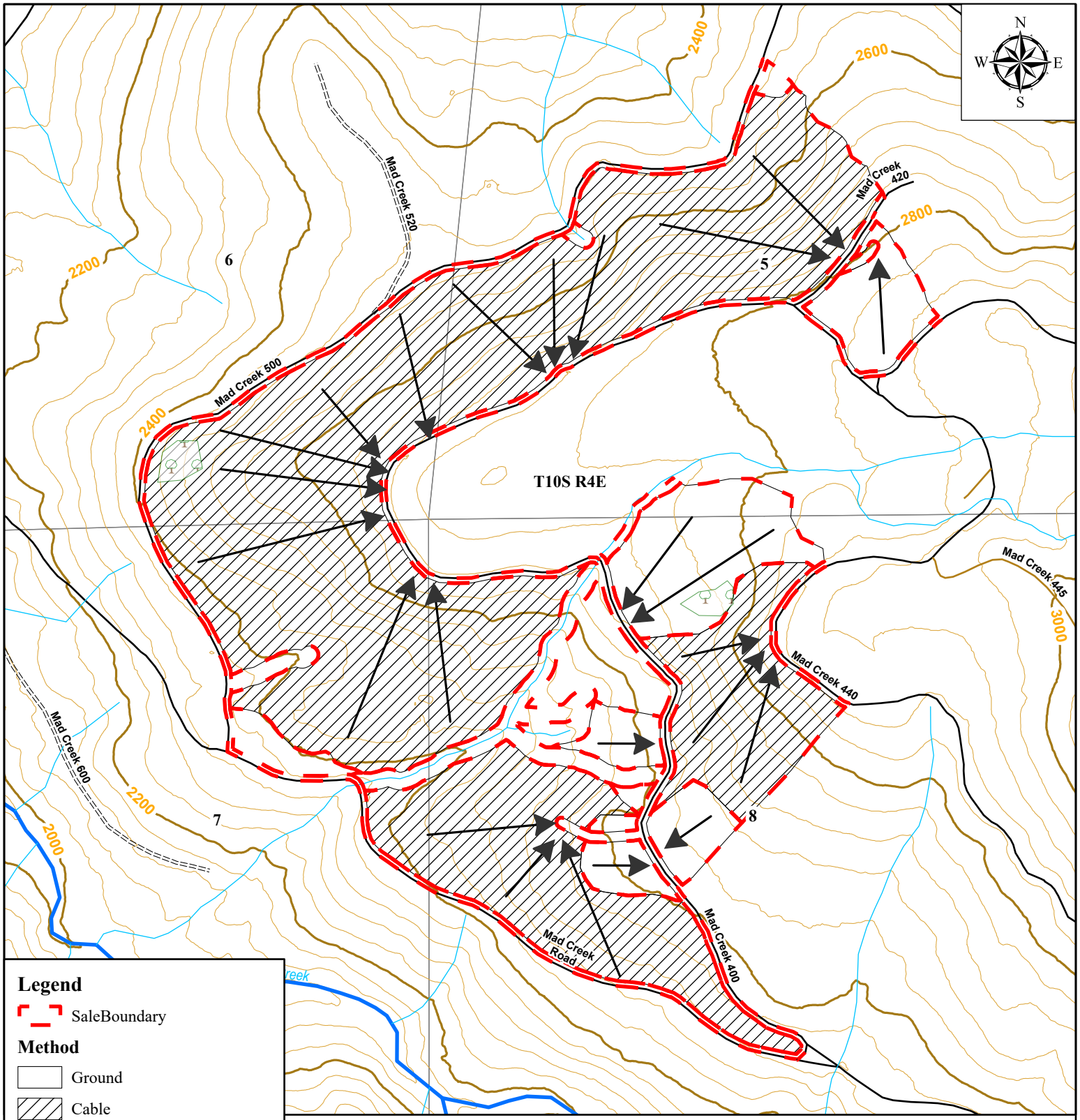
5 plots would be necessary to achieve a standard error of 10% of the mean value of net board feet per acre

2 plots would be necessary to achieve a standard error of 15% of the mean value of net board feet per acre

ODF TRIS REPORT

CRUISE REPORT

Harvest Type	Gross Acres	Riparian	Existing Road	Green Tree Retention	Green Tree	Riparian Green Treen Retention	Inner Gorge	Other	Slope	Partial Cut Non-Required	Snag/Downed Wood	NetAcres
Clearcut modified	123.2	4.89	7.95	4.22	0	0	0	1.37	0	0	0	104.77



Legend

SaleBoundary

Method

Ground

Cable

Green Tree Retention

Streams

Fish

Nonfish

North Cascade Roads

Road Class

All Weather

Dirt Road

===== Old Road Bed - Not Drivable

LOGGING MAP

FOR TIMBER SALE CONTRACT # NC-341-2024-W01101-01
MAD MERRILL
PORTIONS OF SECTIONS 5, 6, 7 & 8, T10S R4E, W.M.
LINN COUNTY

North Cascade District GIS
October 2023
This product is for informational use and may not be suitable for legal, engineering, or surveying purposes.

0 410 820 Feet

APPROXIMATE NET ACRES		
UNIT 1	104.77	ACRES (MC)
UNIT 2	.15	ACRES (R/W)
TOTAL	104.92	ACRES (MC)