"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Proud Mary
Sale WO-341-2026-W01091-01

District: West Oregon

Date: May 29, 2025

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	$945,705.20	$2,275.80	$947,981.00
		Project Work:	($48,725.00)
		Advertised Value:	$899,256.00

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District: West Oregon **Date: May 29, 2025**

Timber Description

Location: Portions of Sections 5 and 8, T10S, R07W, Benton and Polk Counties, OR.

Stand Stocking: 60%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	18	0	98
Western Hemlock / Fir	23	0	98
Alder (Red)	16	0	96

Volume by Grade	2S	3S & 4S 6"-11"	Camprun	Total
Douglas - Fir	969	673	0	1,642
Western Hemlock / Fir	0	0	64	64
Alder (Red)	0	0	15	15
Total	969	673	79	1,721

Comments: Pond Values Used: Local Pond Values, April 2025

Other Conifers Stumpage Price = Western Hemlock price $229.55/MBF

Western redcedar and Other Cedars Stumpage Price = Pond Value minus Logging Cost:
$878.15 MBF = $1200/MBF - $321.85/MBF

Big leaf maple and Other Hardwoods Stumpage Price = Hardwood Pulp price using a conversion factor of 10 ton/MBF: = $30.00/MBF

PULP (Conifer and Hardwood Price) = $3.00/TON

Other Costs (with Profit & Risk to be added):
Equipment Cleaning (Invasive Species): $2,000
Landing Slash Piling and sorting out firewood: 8 Landings @ $200/Landing = $1600
TOTAL Other Costs (Profit & Risk added) = $3,600

Other Costs (No Profit & Risk added):
None

ROAD MAINTENANCE
Move-in:(Roller, Grader) $1,750
Final Road Maintenance: $19,430.02
TOTAL Road Maintenance: $21,180.02/1,721 = $12.31/MBF

SLASH DISPOSAL
29 hours @ $150/hr = $4,350
Total Slash Disposal = $4,350

Logging Conditions

Combination#: 1

Douglas - Fir	69.00%
Western Hemlock / Fir	69.00%
Alder (Red)	69.00%

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:** 4800

cost / mbf: $198.59

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

Combination#: 2

Douglas - Fir	31.00%
Western Hemlock / Fir	31.00%
Alder (Red)	31.00%

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: 17 **bd. ft / load:** 4800

cost / mbf: $122.55

machines: Feller Buncher w/ Delimber

Timber Sale Appraisal
Proud Mary
Sale WO-341-2026-W01091-01

District: West Oregon **Date: May 29, 2025**

Logging Costs

Operating Seasons:	2.00	**Profit Risk:**	12%
Project Costs:	$48,725.00	**Other Costs (P/R):**	$3,600.00
Slash Disposal:	$4,350.00	**Other Costs:**	$0.00

Miles of Road **Road Maintenance:** $12.31

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	4.8
Western Hemlock / Fir	$0.00	3.0	4.5
Alder (Red)	$0.00	3.0	4.0

Timber Sale Appraisal
Proud Mary

Sale WO-341-2026-W01091-01

District: West Oregon

Date: May 29, 2025

Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
Douglas - Fir									
$175.02	$12.56	$5.10	$88.55	$2.09	$34.00	$2.53	$2.00	$0.00	$321.85
Western Hemlock / Fir									
$175.02	$12.56	$5.10	$94.44	$2.09	$34.71	$2.53	$2.00	$0.00	$328.45
Alder (Red)									
$175.02	$12.80	$5.10	$108.34	$2.09	$36.40	$2.53	$2.00	$0.00	$344.28

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	$0.00	$888.85	$567.00	$0.00
Western Hemlock / Fir	$0.00	$558.00	$229.55	$0.00
Alder (Red)	$0.00	$496.00	$151.72	$0.00

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Proud Mary
Sale WO-341-2026-W01091-01

District: West Oregon **Date: May 29, 2025**

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	1,642	$567.00	$931,014.00
Western Hemlock / Fir	64	$229.55	$14,691.20
Alder (Red)	15	$151.72	$2,275.80

Gross Timber Sale Value

Recovery: $947,981.00

Prepared By: Jackson Stout **Phone:** 541-609-9581

SUMMARY OF ALL PROJECT COSTS

Sale Name: Proud Mary

Date: June 2025
Time: 16:07

Project #1 - Road Improvement, Surface Rock Replacement and Maintenance

Road Segment		Length	Cost
1 to 2		158.1 sta	$1,755
2 to 3		116.8 sta	$13,516
4 to 5		55.3 sta	$11,939
6 to 7		3.0 sta	$7,655
8 to 9		11.1 sta	$2,251
	TOTALS	344.3 sta	$37,116

Project #2 -Roadside Brushing and Sod Removal

	Length	Cost
Brushing	3.48 mi	$3,645
Sod and Brush Removal	3.48 mi	$3,114
TOTAL		$6,759

Project #3 -Equipment Move in	Cost
Excavator, C325 or equiv.	$1,500
Dozer, D-6 or equiv.	$950
Grader, Cat 14-G or equiv.	$950
Vibratory roller	$950
Road Brusher	$500
TOTAL	$4,850

GRAND TOTAL

Compiled by: Jackson B. Stout

$48,725

Date 06/13/2025

SUMMARY OF CONSTRUCTION COST

SALE Proud Mary Project # 1 LENGTH 158.1 sta
ROAD 1 to 2

IMPROVEMENT			Rate				
Process surface (w/ grader)	5.0 sta	@	$22.69	/sta	=	$113	
Compact surface (w/ roller)	5.0 sta	@	$17.50	/sta	=	$88	
				TOTAL IMPROVEMENT =			$201

SURFACING		Size		Rate				
Spot rock	50 CY	1½"-0"	@	$31.07	/CY	=	$1,554	
					TOTAL ROCK COST =			$1,554

Compiled by: Jackson B. Stout
Date: Jun 13, 2025

GRAND TOTAL =====> $1,755

SUMMARY OF CONSTRUCTION COST

SALE Proud Mary Project # 1 LENGTH 116.8 sta
ROAD 2 to 3

IMPROVEMENT				Rate				
Re-open and construct landings (w/ dozer)	2.0 hr		@	$140.00	/hr	=	$280	
Shape surface (w/ grader)	116.8 sta		@	$22.69	/sta	=	$2,650	
Compact surface (w/ roller)	116.8 sta		@	$17.50	/sta	=	$2,044	
						TOTAL IMPROVEMENT =		$4,974

SURFACING		Size		Rate				
Landing rock (sta. 40+70)	10 CY	3"-0"	@	$29.72	/CY	=	$297	
Landing rock (sta. 31+80, 116+80)	60 CY	Jaw-Run	@	$28.71	/CY	=	$1,723	
Junction rock (19+80, 106+10)	20 CY	3"-0"	@	$29.72	/CY	=	$594	
Spot rock	190 CY	1½"-0"	@	$31.07	/CY	=	$5,903	
						TOTAL ROCK COST =		$8,517

SPECIAL PROJECTS			Rate				
Clean out culvert (sta. 26+80)	1 culvert	@	$25	ea	=	$25	
					TOTAL SPECIAL PROJECTS COST =		$25

Compiled by: Jackson B. Stout
Date: Jun 13, 2025

GRAND TOTAL =====> $13,516

SUMMARY OF CONSTRUCTION COST

SALE Proud Mary Project # 1 LENGTH 55.3 sta
ROAD 4 to 5

IMPROVEMENT				Rate				
Re-open road (w/ Excvator) (Sta. 42+80 to 55+30)	3	hrs	@	$160.00	/hr	=	$480	
Widen Cutbank (sta. 23+60) (w/ Excavator)	3	hrs	@	$160.00	/hr	=	$480	
Excavate toe of cutslope (w/ Excavator)(Sta. 45+40 to 47+90)	1	hr	@	$160.00	/hr	=	$160	
Shape surface (w/ grader)	55.3	sta	@	$22.69	/sta	=	$1,255	
Compact surface (w/ roller)	55.3	sta	@	$17.50	/sta	=	$968	
End-haul Waste Material	70	CY	@	$4.50	/CY	=	$315	
						TOTAL IMPROVEMENT =		$3,658

SURFACING			Size		Rate				
Base rock	50	CY	3"-0"	@	$29.72	/CY	=	$1,486	
Spot rock	120	CY	1½"-0"	@	$31.07	/CY	=	$3,728	
Spot rock (sta. 39+50)	50	CY	3"-0"	@	$29.72	/CY	=	$1,486	
Culvert bedding rock	20	CY	1½"-0"	@	$31.07	/CY	=	$621	
							TOTAL ROCK COST =		$7,321

SPECIAL PROJECTS				Rate				
Cross drain culvert (18" x 30')	30	ft	@	$16.50	/ft	=	$495	
Install Culvert (w/ Excavator)	1.5	hrs	@	$160.00	/hr	=	$240	
Compact Culvert Bedding/Backfill (Laborer)	1	hrs	@	$50	/hr	=	$50	
Clean out culverts (inlets and outlets)	3	culverts	@	$25	ea	=	$75	
Culvert disposal	1	culvert	@	$100	ea	=	$100	
						TOTAL SPECIAL PROJECTS COST =		$960

Compiled by: Jackson B. Stout
Date: Jun 13, 2025

GRAND TOTAL =====> $11,939

SUMMARY OF CONSTRUCTION COST

SALE Proud Mary Project # 1 LENGTH 3.0 sta
ROAD 6 to 7

CLEARING AND GRUBBING				Rate				
Road and Landing	0.1	ac	@	$1,470.00	/acre	=	$147	
					TOTAL CLEARING AND GRUBBING =			$147
EXCAVATION				Rate				
Construct junction	1.5	sta	@	$235.00	/sta	=	$353	
Shape subgrade (w/ grader)	3.0	sta	@	$22.69	/sta	=	$68	
Compact subgrade (w/ roller)	3.0	sta	@	$17.50	/sta	=	$53	
					TOTAL EXCAVATION =			$474
IMPROVEMENT				Rate				
Re-open road and landing (w/ dozer)	1	hrs	@	$140.00	/hr	=	$140	
Shape surface (w/ grader)	6.0	sta	@	$22.69	/sta	=	$136	
Compact surface (w/ roller)	6.0	sta	@	$17.50	/sta	=	$105	
					TOTAL IMPROVEMENT =			$381
SURFACING			Size	Rate				
Base rock (8" lift) (sta. 0+00 to 3+00)	140	CY	Jaw-Run	@ $28.71	/CY	=	$4,019	
Surface rock (3"lift) (sta. 0+00 to 3+00)	50	CY	3"-0"	@ $29.72	/CY	=	$1,486	
Landing rock	40	CY	Jaw-Run	@ $28.71	/CY	=	$1,148	
					TOTAL ROCK COST =			$6,653

Compiled by: Jackson B. Stout
Date: Jun 13, 2025

GRAND TOTAL =====> $7,655

SUMMARY OF CONSTRUCTION COST

SALE Proud Mary Project # 1 LENGTH 11.1 sta
ROAD 8 to 9

IMPROVEMENT				Rate				
Reestablish ditch (w/ excavator) (sta. 1+00 to 7+90)	1.5	hr	@	$160.00	/hr	=	$240	
Shape surface (w/ grader)	11.1	sta	@	$22.69	/sta	=	$252	
Compact surface (w/ roller)	11.1	sta	@	$17.50	/sta	=	$194	
						TOTAL IMPROVEMENT =		$686

SURFACING			Size		Rate				
Landing rock	10	CY	3"-0"	@	$29.72	/CY	=	$297	
Spot rock	40	CY	1 ½”-0”	@	$31.07	/CY	=	$1,243	
							TOTAL ROCK COST =		$1,540

SPECIAL PROJECTS				Rate				
Clean out culvert (sta. 1+00) (inlets and outlets)	1	culvert	@	$25	ea	=	$25	
						TOTAL SPECIAL PROJECTS COST =		$25

Compiled by: Jackson B. Stout
Date: Jun 13, 2025

GRAND TOTAL =====> $2,251

SUMMARY OF BRUSHING COST

SALE Proud Mary Project # 3 LENGTH 3.48 Miles
ROAD All (Surfaced/unsurfaced)

LIGHT BRUSHING				Rate			
Pt. 2 to Sta. 106+10	2.01	mi	@	$880.00	/mi	=	$1,769
Pt. 8 to Pt. 9	0.21	mi	@	$880.00	/mi	=	$185
TOTAL LENGTH =	2.22	mi		TOTAL LIGHT BRUSHING COST =			$1,954

MEDIUM BRUSHING				Rate			
Pt. 4 to Sta. 39+50	0.75	mi	@	$1,200.00	/mi	=	$900
TOTAL LENGTH =	0.75	mi		TOTAL HEAVY BRUSHING COST =			$900

HEAVY BRUSHING				Rate			
Sta. 106+10 to Pt. 3	0.20	mi	@	$1,550.00	/mi	=	$310
Sta. 39+50 to Pt. 5	0.25	mi	@	$1,550.00	/mi	=	$388
Pt. 6 to Pt. 7	0.06	mi	@	$1,550.00	/mi	=	$93
TOTAL LENGTH =	0.51	mi		TOTAL HEAVY BRUSHING COST =			$791

BRUSHING GRAND TOTAL =====> $3,645

SOD AND DEBRIS REMOVAL				Rate			
All brushing segments	3.48	mi	@	$894.96	/mi	=	$3,114
TOTAL LENGTH =	3.48	mi		**TOTAL SOD AND DEBRIS REMOVAL =====>**			**$3,114**

Compiled by: Jackson B. Stout
Date: Jun 13, 2025

SUMMARY OF MAINTENANCE COST

SALE: Proud Mary

Final log haul Maintenance Cost Estimate

(Costed in appraisal, not in project costs)

Move-in	Grader	$	875
	Vibratory Roller	$	875

Road Segment	Length	Cost/Sta	Cost	Mileage
1 to 2	158.1	$40.19	$6,354.04	2.99
2 to 3	116.8	$40.19	$4,694.19	2.21
4 to 5	55.3	$40.19	$2,222.51	1.05
6 to 7	3.0	$40.19	$120.57	0.06
8 to 9	11.1	$40.19	$446.11	0.21
Total	344.3		$13,837.42	6.52

Maintenance Rock:

	Volume	Cost/CY	Cost
1½"-0"	180	$31.07	$5,592.60
Grand Total			$ 21,180.02
TS Volume	1,721	MBF	
Cost / MBF =			$12.31

Rock Haul Cost Computation

SALE NAME: Proud Mary
ROAD NAME:
ROCK SOURCE: Rickard
Route: Hwy 20-Marys River Rd

DATE: Jun 13, 2025
CLASS: Medium
10 CY truck

TIME Computation:
Road speed time factors:

1.	55 MPH	12.6	MRT	13.7 minutes
2.	50 MPH		MRT	0.0 minutes
3.	45 MPH	9.6	MRT	12.8 minutes
4.	40 MPH		MRT	0.0 minutes
5.	35 MPH		MRT	0.0 minutes
6.	30 MPH	4.4	MRT	8.8 minutes
7.	25 MPH		MRT	0.0 minutes
8.	20 MPH	1.2	MRT	3.6 minutes
9.	15 MPH	9.8	MRT	39.2 minutes
10.	10 MPH		MRT	0.0 minutes
11.	05 MPH		MRT	0.0 minutes

Dump or spread time per RT		0.50	minutes
Total hauling cycle time for this setting (100% efficiency)		78.60	minutes
Operator efficiency correction	0.85	92.47	minutes
Job efficiency correction	0.90	102.74	minutes
Truck capacity (CY)	10.00	10.27	min/CY
Loading time, delay time per CY		0.25	min/CY
TIME (minutes) per cubic yard		10.52	min/CY

COST per CY computation

Cost of truck and operator per hour	$100.00	/hr.
Cost of truck and operator per minute	$1.67	/min
Cost per CY	$17.57	/CY

Size	**Cost/Yd (Pit)**	**Cost Delivered w/o processing**
1½" - 0"	$ 13.50	$31.07
3" - 0"	$ 12.15	$29.72
Jaw-Run	$ 11.14	$28.71
Pit-Run	$ 9.45	$27.02

TIMBER CRUISE REPORT

Proud Mary
(WO-341-2026-W01091-01)
FY 2026

1. **Sale Area Location**: Portions of Sections 5 and 8, T10S, R07W, W.M., Benton and Polk Counties, Oregon.

2. **Fund Distribution:**
   a. **Fund** BOF 100%

3. **Sale Acreage by Area:**

Unit	Treatment	Gross Acres	Stream Buffers	Existing Roads	Green Tree Reserve Area	Net Sale Acres	Acreage Comp. Method
1	Clearcut	65	13	3	1	48	GIS
Total		65	13	3	1	48	GIS

4. **Cruisers and Cruise Dates:** The sale was cruised by Jackson Stout and Jeff Kuust in April of 2025.

5. **Cruise Method and Computation:** The sale consists of one unit. Unit 1 is a clearcut that was cruised using variable radius plot sampling on a 4 x 3 chain grid using a 40 BAF prism factor. A total of 36 plots were taken in Unit 1 with 18 grade plots and 18 count plots.

   Measure plots were measured for DBH, height, form factor, grade, and defect. Data was entered into the Atterbury SuperACE cruise program to determine stand statistics and net board foot volume. Additional volume was removed to account for hidden defect and breakage.

   Digital ortho photos, Lidar data, and GPS data were used to map the boundaries for the sale, and ArcPro GIS was used to determine gross and net acreage.

6. **Measurement Standards:** Tree heights were measured to the nearest foot, to a top diameter of 5 inches inside bark or to 40% of dob at 16' form point. Diameters at breast height (DBH) were measured to the nearest inch, and a form point of 16 feet was used to calculate form factor. Form factors were measured or estimated on every tree. Most trees were graded in 40-foot log segments unless breakage, defect, or length to top of grade cruise diameter warranted otherwise.

7. **Timber Description:** Timber in Unit 1 includes 48 acres of predominately 78-year-old Douglas-fir with some pockets of Western Hemlock and Red Alder. The average Douglas-fir to be removed is approximately 18 inches DBH, with an average height of 77 feet to a merchantable top. The average red alder is approximately 16 inches with an average height of 33 feet to a merchantable top. The average western hemlock is approximately 23 inches DBH, with an average height of 86 feet to a merchantable top. The average volume per acre to be harvested approximately 35.9 MBF/Acre (net).

8. **Statistical Analysis and Stand Summary:** (See attached "Statistics").

Unit	Target CV	Target SE	Actual CV	Actual SE
1	45%	9%	50.3	8.4

Note: Statistics shown are for conifer and hardwood trees combined. Percentages are for net board foot volume.

9. **Total Volume (MBF) by Species and Grade:** (See attached volume report "Species, Sort Grade – Board Foot Volumes - Project").

Unit	Species	Gross Cruise Volume	Cruised D & B	Cruised D & B (MBF)	Hidden D & B	Hidden D & B (MBF)	Net Sale Volume
1	Douglas-fir	1683	0.4%	(7)	2%	(34)	1642
	Red Alder	15	-	-	-	-	15
	Western Hemlock	65	0.2%	<1	2%	(1)	64
Totals		1763	0.4%	7	2%	35	1721

Unit	Species	Ave. DBH	Net Vol.	2-Saw	3-Saw	4-Saw	Camp Run
1	Douglas-fir	18	Grade %	59%	32%	9%	-
			1642	969	525	148	-
	Red Alder	16	Grade %	-	-	-	100%
			15	-	-	-	15
	Western Hemlock	23	Grade %	-	-	-	100%
			64	-	-	-	64
Totals			1721	969	525	148	79

Attachments: Cruise Design
Cruise Maps
Statistics
Species, Sort Grade – Board Foot Volumes
Stand Table Summary
Log Stock Table – MBF

Prepared by: Jackson B. Stout Date: 5/29/2025

Unit Forester: Cody Valencia Date: 6/9/25

Cody Valencia

Revised August, 2002

CRUISE DESIGN
WEST OREGON DISTRICT

Sale Name: Proud Mary **Unit** 1

Harvest Type: MC
Approx. Cruise Acres: 49 **Estimated CV%** 45 Net BF /Acre **SE% Objective** 9% Net BF /Acre

Planned Sale Volume: 1789 MBF **Estimated Sale Area Value/Acre:** $ 16,425

A. Cruise Goals: (a) Grade minimum 75 conifer and 0 hardwood trees: (b) Sample 36 cruise plots (18 grade: 18 count); (c) Other goals X Determine log grades for sale value; X Determine take and leave tree species and sizes.

(Special cruising directions – leave trees etc.) Take plots as shown on map. Do not take plots in buffers.

DO NOT RECORD 12', 22' and 32' (for Hardwoods).

DO NOT RECORD 22' LENGTHS.

B. Cruise Design:

1. **Plot Cruises:** BAF 40 Full point
   Cruise Line Direction(s) 49/229
   Cruise Line Spacing 4 264 (chains) (feet)
   Cruise Plot Spacing 3 198 (chains) (feet)
   Grade/Count Ratio 1:1

C. Tree Measurements:

1. **Diameter:** Minimum DBH to cruise is 8" for conifers and 10" for hardwoods. Record dbh to nearest ½" for trees < 16", to nearest 1" for trees 16-24", and to nearest 2" for trees > 24". If tree diameters are estimated (only estimate on variable plot cruises), then record to closest estimate.

2. **Bole Length:** Record bole length to nearest foot at TCD. For trees greater than 100 feet in merchantable height, estimating to the nearest 5 feet is acceptable.

3. **Top Cruise Diameter (TCD):** Minimum top outside bark for conifer is 6", 8" for hardwoods or 40 % of dob at 16' form point. Generally, use 6" outside bark for trees < 18" dbh and 40% of dob @ FP for trees > 18" dbh.

4. **Form Factors:** (1) Measure or estimate a 16' form factor for every conifer tree measured/graded; OR (2) Measure a minimum of 20 form factors for each major conifer species on the cruise area, and use these to calculate average FF for the species on the cruise. Hardwood form factors are a Standard 87.

5. **Tree Segments:** Record log segments in "standard" log lengths in general use, such as 32' and 40' lengths, whenever possible. Do not record odd segments just to maximize grade. Cull segments can be any length. For conifers, minimum merchantable segment length is 12'; for

hardwoods, it's 8'. Maximum segment length is 40'. One foot of trim is assumed for each merch. log segment. Do not use "double dash" (--) feature on the data recorder except for the top segment of the tree.

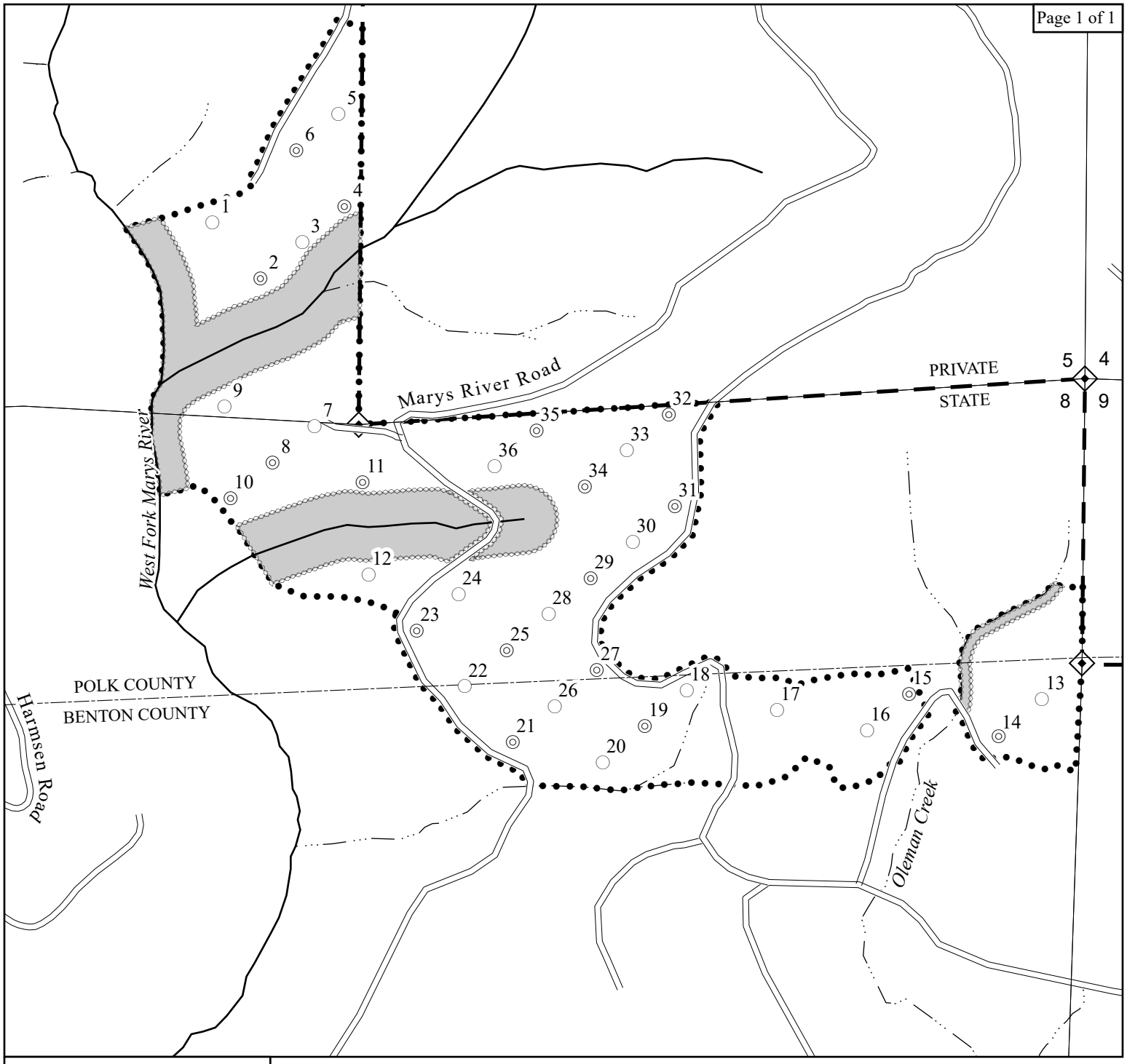
6. **Species, Sort, and Grade Codes:** A. Species: Record as DF (Douglas-fir); WH (Western hemlock); SS (Sitka Spruce); RC (Western red cedar); NF (Noble fir); SF (Silver fir); RA (Red alder); BM (Bigleaf maple). For "leave trees" in partial cuts, or for marked "wildlife trees," add an "L" to the species code (such as DFL, HL, CL, etc.)
   B. Sort: Use code "1" (Domestic).
   C. Grade: A = 1 Peeler; B = 2 Peeler; C = 3 Peeler; D = Special Mill; 2 = 2 Sawmill; 3 = 3 Sawmill; 4 = 4 Sawmill; K = Camp Run; 0 = Cull ;
   Hardwoods: K = Camprun; #1 Sawmill = 12"+ scaling diameter; #2 Sawmill = 10" and 11"; #3 Sawmill = 8" and 9"; #4 Sawmill = 6" and 7"

7. **Deductions:** Estimate visible defect or damage as a "length deduction" (most often), or as a "diameter deduction," as applicable. Estimate hidden defect and breakage (usually some breakage is encountered in trees > 100 feet in height) on a "per tree" basis. Steep and broken topography generally results in higher breakage percentages than gentler topography, and hemlock generally breaks more than D-fir and spruce.

8. **Standard Field Procedures:** Plot Type Cruises: At each plot, tie red flagging above eye level near plot center and another red flagging around a sturdy wooden stake marking plot center. On red flagging, write the plot identification number. On "measure/grade" plots write the tree number and/or tree diameter on all measured trees (clockwise from the line direction) in yellow paint. Mark leave trees with an L for leave.

9. **Cruising Equipment:** Relaskop, Rangefinder, Logger's Tape (with dbh on back), Compass, Cruise Cards or Data Recorder, Cruise Design, Cruise Map, Red Flagging, Yellow Paint.

10. **Attachments:** A. Cruise Map (showing cruise unit boundaries, roads, streams, approx. acres/unit, cruise lines and plot locations, legal description and section lines, BAF or plot size, measure/count plot ratio, north arrow, and scale.



Legend

- Timber Sale Boundary
- Ownership
- Stream Buffer
- Surfaced Road
- Count Plot
- Measure Plot
- Land Survey Monument

CRUISE MAP

OF TIMBER SALE CONTRACT NO. WO-341-2026-W01091-01
PROUD MARY
PORTIONS OF SECTIONS 5 AND 8 T10S, R07W, W.M.,
BENTON AND POLK COUNTIES, OREGON

This product is for informational use and may not have been prepared for or be suitable for legal, engineering or survey purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of this information.

Scale
1:6,000

AREA	GROSS ACRES	NET ACRES
1 (MC)	65	48
TOTAL	65	48

0 500 1,000 2,000 Feet

N

06/12/2025

STATISTICS

PROJECT **PROUDMRY**

TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
10S	**07W**	**05**	**PROUDMRY**	**CC**	48.00	36	206	1	W

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	36	206	5.7		
CRUISE	18	99	5.5	6,188	1.6
DBH COUNT					
REFOREST					
COUNT	18	107	5.9		
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
DF	87	117.6	17.9	77	48.6	205.6	35,059	34,907	8,925	8,925
R ALDER	4	8.3	15.6	33	2.8	11.1	310	310	182	182
WHEMLOCK	3	2.3	22.9	86	1.4	6.7	1,366	1,363	315	315
D-WILDLI	5	.7	38.4	89	0.9	5.6	1,034	969	236	236
TOTAL	*99*	*128.9*	*18.0*	*75*	*53.9*	*228.9*	*37,769*	*37,549*	*9,658*	*9,658*

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 REO.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DF	66.8	7.2	404	435	466			
R ALDER	40.0	22.9	29	38	46			
WHEMLOCK	106.7	73.8	245	937	1,628			
D-WILDLI	41.8	20.8	1,201	1,516	1,831			
TOTAL	*87.2*	*8.8*	*446*	*488*	*531*	*304*	*76*	*34*

CL: 68.1 %	COEFF		**SAMPLE TREES - CF**			# OF TREES REO.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DF	56.9	6.1	101	107	114			
R ALDER	29.1	16.6	19	23	27			
WHEMLOCK	90.2	62.4	75	198	322			
D-WILDLI	30.3	15.1	307	362	416			
TOTAL	*75.3*	*7.6*	*111*	*120*	*129*	*227*	*57*	*25*

CL: 68.1 %	COEFF		**TREES/ACRE**			# OF PLOTS REO.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DF	58.2	9.7	106	118	129			
R ALDER	271.0	45.1	5	8	12			
WHEMLOCK	279.1	46.5	1	2	3			
D-WILDLI	297.7	49.6	0	1	1			
TOTAL	*46.7*	*7.8*	*119*	*129*	*139*	*87*	*22*	*10*

CL: 68.1 %	COEFF		**BASAL AREA/ACRE**			# OF PLOTS REO.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DF	52.5	8.7	188	206	224			
R ALDER	280.3	46.7	6	11	16			
WHEMLOCK	268.3	44.7	4	7	10			
D-WILDLI	305.6	50.9	3	6	8			
TOTAL	*40.0*	*6.7*	*214*	*229*	*244*	*64*	*16*	*7*

CL: 68.1 %	COEFF		**NET BF/ACRE**			# OF PLOTS REO.		INF. POP.
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DF	55.3	9.2	31,691	34,907	38,124			
R ALDER	276.2	46.0	167	310	452			
WHEMLOCK	275.5	45.9	737	1,363	1,988			

STATISTICS

PROJECT PROUDMRY

DATE 6/18/2025

TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
10S	**07W**	**05**	**PROUDMRY**	**CC**	48.00	36	206	1	W

CL: 68.1 % COEFF **NET BF/ACRE** # OF PLOTS REO. INF. POP.

SD: 1.0 VAR. S.E.% LOW AVG HIGH 5 10 15

D-WILDLI	323.7	53.9	447	969	1,491			
TOTAL	*50.3*	*8.4*	*34,402*	*37,549*	*40,696*	*101*	*25*	*11*

CL: 68.1 % COEFF **NET CUFT FT/ACRE** # OF PLOTS REO. INF. POP.

SD: 1.0 VAR.% S.E.% LOW AVG HIGH 5 10 15

DF	53.9	9.0	8,125	8,925	9,726			
R ALDER	282.3	47.0	96	182	267			
WHEMLOCK	269.9	44.9	173	315	456			
D-WILDLI	312.5	52.0	113	236	359			
TOTAL	*46.6*	*7.8*	*8,908*	*9,658*	*10,408*	*87*	*22*	*10*

T TSPCSTGR

Species, Sort Grade - Board Foot Volumes (Type)

Project: PROUDMRY

Date 6/18/2025

Time 11:55:12AM

T10S R07W S05 TCC

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt
10S	07W	05	PROUDMRY	CC	48.00	36	99	1	W

T10S R07W S05 TCC

Spp	ST	Sort	Grad	Gra	% Net BdFt	Bd. Ft. per Acre Def%	Gross	Net	Total Net MBF	Percent Net Board Foot Volume: Log Scale Dia. 4-5	6-11	12-16	17+	Log Length 12-20	21-30	31-35	36-99	Average Log: Ln Ft	Dia In	Bd Ft	CF/ Lf	Logs Per /Acre
DF		DO	CU															10	22		0.00	.6
DF		DO	2M		59	.5	20,951	20,841	1,000			70	30		1		99	40	15	330	1.91	63.1
DF		DO	3M		32	.4	11,055	11,014	529		90	10			2	8	90	39	9	112	0.82	98.4
DF		DO	4M		9		3,053	3,053	147	50	50			31	35	3	31	24	6	29	0.41	104.4
DF	**Totals**				93	.4	35,059	34,907	1,676	4	33	45	18	3	5	3	90	33	9	131	1.02	266.4
RA		DO	CR		100		310	310	15	61	39				61		39	32	5	37	0.69	8.3
RA	**Totals**				1		310	310	15	61	39				61		39	32	5	37	0.69	8.3
WH		DO	2M		84		1,157	1,157	56			49	51				100	40	16	439	2.34	2.6
WH		DO	3M		12	1.9	158	155	7		79	21			21		79	36	10	118	1.01	1.3
WH		DO	4M		4		51	51	2		100			40	60			21	6	25	0.48	2.0
WH	**Totals**				4	.2	1,366	1,363	65		13	44	43	1	5		94	33	11	228	1.61	6.0
DF		DO	2M		67	7.0	707	657	32		4		96				100	40	21	783	4.69	.8
DF		DO	3M		30	4.5	297	283	14		9	17	75				100	38	17	524	3.43	.5
DF		DO	4M		3	7.2	31	29	1			100		100				15	13	82	1.56	.3
DFW	**Tota**				3	6.3	1,034	969	47		5	8	87	3			97	34	18	561	3.98	1.7
Type Totals						.6	37,769	37,549	1,802	5	31	44	20	3	5	2	90	33	9	133	1.04	282.5

T TSTNDSUM

Stand Table Summary

Project PROUDMRY

T10S R07W S05 TCC

T10S R07W S05 TCC

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
10S	07W	05	PROUDMRY	CC	48.00	36	99

Date: 06/18/202

Time: 11:55:12AM

Spc	S T	DBH	Sample Trees	FF 16'	Av Ht Tot	Trees/ Acre	BA/ Acre	Logs Acre	Average Log Net Cu.Ft.	Average Log Net Bd.Ft.	Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals Tons	Totals Cunits	Totals MBF
DF		9	1	86	52	5.348	2.36	5.35	9.0	30.0		48	160		23	8
DF		10	1	82	44	4.332	2.36	4.33	10.0	30.0		43	130		21	6
DF		11	3	89	89	10.740	7.09	21.48	11.7	43.3		251	931		120	45
DF		12	3	83	75	9.025	7.09	12.03	16.7	50.0		202	602		97	29
DF		13	2	91	93	5.127	4.73	10.25	16.7	57.5		172	590		82	28
DF		14	3	85	103	6.631	7.09	15.47	18.0	64.3		278	995		134	48
DF		15	4	90	96	7.701	9.45	15.40	23.5	85.0		362	1,309		174	63
DF		16	5	88	106	8.461	11.81	22.00	22.3	83.1		491	1,828		236	88
DF		17	2	91	113	2.998	4.73	7.49	29.4	106.0		220	794		106	38
DF		18	8	89	107	10.696	18.90	24.07	32.9	118.3		793	2,848		381	137
DF		19	6	86	107	7.200	14.18	16.80	35.2	119.3		592	2,004		284	96
DF		20	9	89	122	9.747	21.26	27.07	37.1	146.4		1,005	3,964		482	190
DF		21	5	89	133	4.912	11.81	14.73	41.3	172.7		609	2,544		292	122
DF		22	7	88	123	6.265	16.54	17.90	43.8	179.0		784	3,204		376	154
DF		23	3	88	119	2.457	7.09	6.55	49.4	201.2		323	1,318		155	63
DF		24	7	89	127	5.265	16.54	15.79	50.8	218.6		802	3,452		385	166
DF		25	6	85	120	4.159	14.18	11.09	57.1	226.9		634	2,516		304	121
DF		26	3	88	129	1.922	7.09	5.77	60.0	261.1		346	1,506		166	72
DF		27	3	84	133	1.783	7.09	4.75	71.0	287.5		338	1,367		162	66
DF		28	1	81	138	.553	2.36	1.66	49.7	223.3		82	370		40	18
DF		29	1	91	142	.515	2.36	1.55	84.0	396.7		130	613		62	29
DF		30	1	86	158	.481	2.36	1.44	90.7	426.7		131	616		63	30
DF		31	1	85	107	.451	2.36	.90	103.5	425.0		93	383		45	18
DF		32	1	83	81	.423	2.36	.85	88.0	330.0		74	279		36	13
DF		34	1	85	143	.375	2.36	1.12	108.7	520.0		122	585		59	28
DF		Totals	87	87	103	117.564	205.56	265.86	33.6	131.3		8,925	34,907		4,284	1,676
WH		20	2	87	104	2.037	4.44	5.09	38.2	146.0		195	744		93	36
WH		37	1	89	135	.298	2.22	.89	134.7	693.3		120	619		58	30
WH		Totals	3	87	108	2.335	6.67	5.99	52.6	227.6		315	1,363		151	65
DF		34	1	81	98	.176	1.11	.35	118.0	375.0		42	132		20	6
DF		35	1	88	103	.166	1.11	.33	133.0	520.0		44	173		21	8
DF		40	1	81	119	.127	1.11	.38	123.7	506.7		47	194		23	9
DF		43	2	83	128	.220	2.22	.66	156.0	711.7		103	470		50	23
DFW		Totals	5	83	113	.690	5.56	1.73	136.7	560.8		236	969		113	47
RA		13	1	86	35	3.014	2.78	3.01	14.0	30.0		42	90		20	4
RA		16	1	86	53	1.989	2.78	1.99	30.0	60.0		60	119		29	6
RA		17	1	86	35	1.762	2.78	1.76	23.0	30.0		41	53		19	3
RA		18	1	87	35	1.572	2.78	1.57	25.0	30.0		39	47		19	2
RA		Totals	4	86	39	8.337	11.11	8.34	21.8	37.2		182	310		87	15
Totals			99	87	99	128.927	228.89	281.92	34.3	133.2		9658	37,549		4,636	1,802

T TLOGSTVB

Log Stock Table - MBF

Project: PROUDMRY

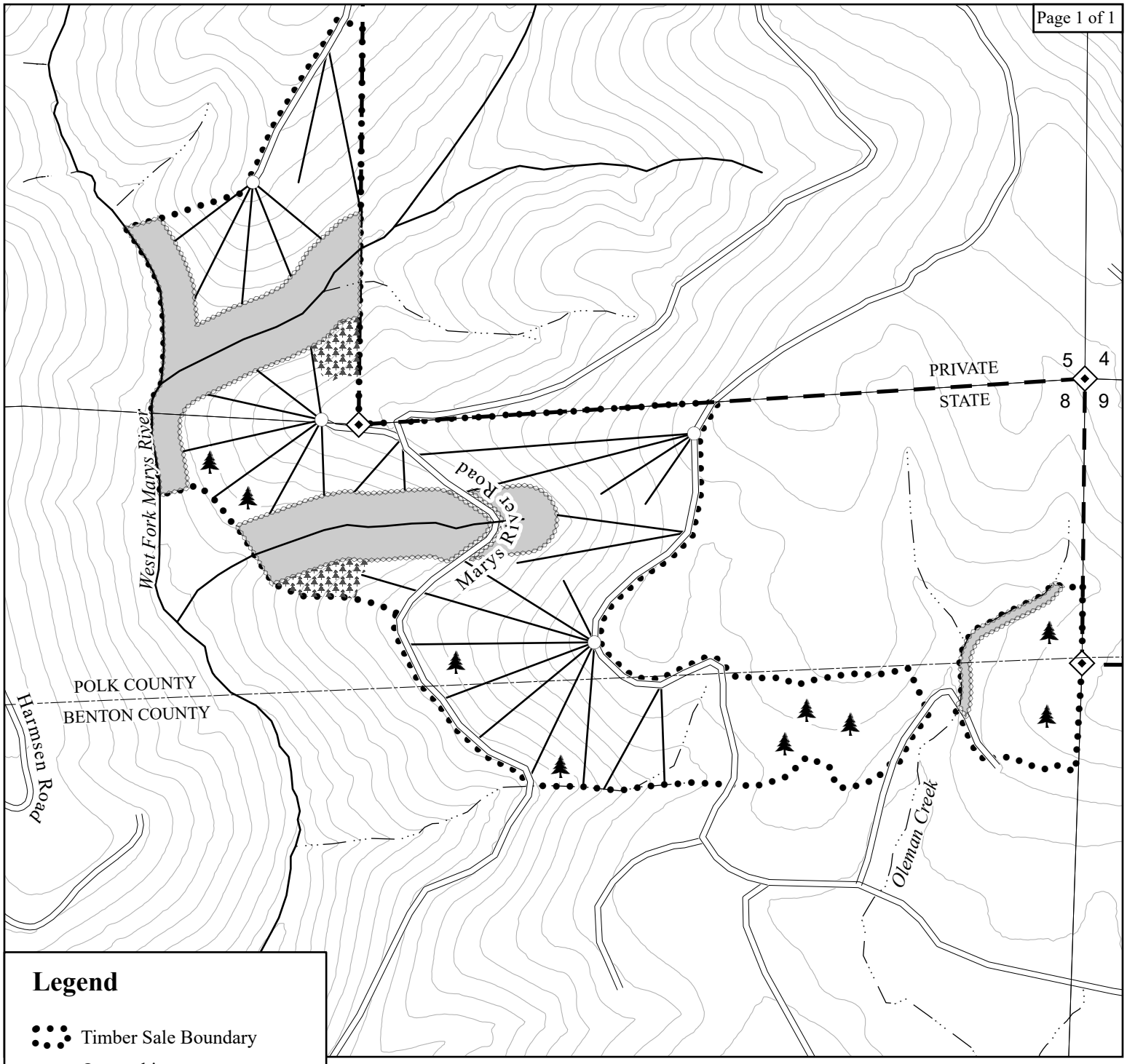
T10S R07W S05 TCC

T10S R07W S05 TCC

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
10S	07W	05	PROUDMRY	CC	48.00	36	99

Page 1
Date 6/18/2025
Time 11:55:13AM

Spp	ST	Sort	Grade	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	30-33	40+
DF		DO	CU	10																
DF		DO	2M	30	12		12	.7									12			
DF		DO	2M	36	9		9	.5								9				
DF		DO	2M	38	14		14	.8						6	8					
DF		DO	2M	40	971	.5	966	57.7						248	267	383	68			
DF		DO	3M	30	13		13	.8			3		5	5						
DF		DO	3M	32	24	1.8	24	1.4				2	22							
DF		DO	3M	34	16	1.3	16	.9			3	7		6						
DF		DO	3M	36	31	1.7	30	1.8			4	18		8						
DF		DO	3M	38	29		29	1.7			10	11	7							
DF		DO	3M	40	418	.2	417	24.9			79	101	203	34						
DF		DO	4M	12	14		14	.8		7	5	2								
DF		DO	4M	14	2		2	.1			1	1								
DF		DO	4M	16	7		7	.4		3	2	1								
DF		DO	4M	18	14		14	.8		7	5	2								
DF		DO	4M	20	9		9	.5		2	4	3								
DF		DO	4M	24	14		14	.8		6	3	5								
DF		DO	4M	26	5		5	.3		3	2									
DF		DO	4M	28	12		12	.7		6	5									
DF		DO	4M	30	21		21	1.2		15	6									
DF		DO	4M	34	5		5	.3			5									
DF		DO	4M	36	12		12	.7		7	5									
DF		DO	4M	40	33		33	2.0		15	17									
DF			Totals		1,683		1,676	93.0		73	160	153	236	308	274	392	80			
RA		DO	CR	28	4		4	29.2		4										
RA		DO	CR	30	5		5	32.3		5										
RA		DO	CR	40	6		6	38.5			6									
RA			Totals		15		15	.8		9	6									
WH		DO	2M	40	56		56	84.9						10	18	9		20		
WH		DO	3M	24	2	8.3	2	2.4						2						
WH		DO	3M	40	6		6	9.0				6								
WH		DO	4M	14	1		1	1.5			1									
WH		DO	4M	28	1		1	2.2			1									
WH			Totals		66		65	3.6			2	6		11	18	9		20		
DF		DO	2M	40	34	7.0	32	67.8					1			3	12	15		
DF		DO	3M	36	1		1	2.5					1							
DF		DO	3M	38	2	2.6	2	4.9								2				
DF		DO	3M	40	11	5.4	10	21.8									3	7		
DF		DO	4M	12	0		0	.8						0						
DF		DO	4M	14	0		0	.9						0						
DF		DO	4M	18	1	15.4	1	1.3							1					
DFW			Totals		50	6.3	47	2.6					3	1	1	5	16	22		
Total All Species					1,813		1,802	100.0		82	168	158	239	320	292	405	96	42		



Legend

- Timber Sale Boundary
- Ownership
- Stream Buffer
- Green Tree Retention Area
- Surfaced Road
- Type F Stream
- Type N Stream
- Cable Corridor
- Landing
- Upland Wildlife tree
- Land Survey Monument

LOGGING PLAN

OF TIMBER SALE CONTRACT NO. WO-341-2026-W01091-01
PROUD MARY
PORTIONS OF SECTIONS 5 AND 8 T10S, R07W, W.M.,
BENTON AND POLK COUNTIES, OREGON

This product is for informational use and may not have been prepared for or be suitable for legal, engineering or survey purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of this information.

Scale
1:6,000

Unit	CABLE ACRES	TRACTOR ACRES
1	35	13
TOTAL	35	13

N

0 500 1,000 2,000 Feet

06/12/2025