



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal  
Scoggins Divide  
Sale FG-341-2024-W00945-01

District: Forest Grove

Date: March 29, 2023

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**Cost Summary**

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$1,962,243.00	\$6,108.16	\$1,968,351.16
		Project Work:	(\$272,185.00)
		Advertised Value:	\$1,696,166.16



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## Timber Description

Location:

Stand Stocking: 20%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	21	0	98
Alder (Red)	13	0	95

Volume by Grade	2S	3S & 4S 6"-11"	Camprun	Total
Douglas - Fir	3,042	903	0	3,945
Alder (Red)	0	0	32	32
Total	3,042	903	32	3,977

**Comments:** LOCAL POND VALUES, FEBURARY 2023

WESTERN REDCEDAR AND OTHER CEDARS:  
STUMPAGE PRICE = POND VALUE - DOUG-FIR LOGGING COST  
 $\$935.28 = \$1,234.00 - \$298.72$

BIGLEAF MAPLE AND OTHER HARDWOODS:  
STUMPAGE PRICE = POND VALUE - RED ALDER LOGGING COST  
 $\$46.88 = \$397.00 - \$350.12$

NOBLE FIR AND OTHER CONIFERS:  
STUMPAGE PRICE = POND VALUE - DOUG-FIR LOGGING COST  
 $\$258.28 = \$557.00 - \$298.72$

BRANDING AND PAINTING ALLOWANCE = \$2.00/MBF

FUEL COST ALLOWANCE = \$5.00/GAL

HAULING COST ALLOWANCE = \$1,250/DAY

OTHER COSTS (WITH PROFIT & RISK ADDED):  
None

OTHER COSTS (NO PROFIT & RISK ADDED):

EQUIPMENT CLEANING: 3 PIECES @ \$1,000/PIECE = \$3,000

MACHINE TIME TO BLOCK/WATERBAR ROADS AND SKID TRAILS:  
20 HOURS X \$150/HOUR = \$3,000

MACHINE TIME TO PILE LANDING SLASH:  
10 HOURS X \$150/HOUR = \$1,500

TOTAL OTHER COSTS (NO P&R) = \$7,500

SLASH TREATMENT: 10 ACRES X \$250/ACRE = \$2,500

ROAD MAINTENANCE (INCLUDES SPOT ROCKING, GRADING, & ROLLING):  
MOVE IN: \$2,218.83  
GENERAL ROAD MAINT: miles 4.51 X \$3,230.80 = \$14,570.90  
TOTAL ROAD MAINTENANCE: \$16,789.73 / 3,977 MBF = \$4.22/MBF



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**Logging Conditions**

**Combination#: 1**                      Douglas - Fir                      68.00%  
   Alder (Red)                      68.00%

**Logging System:** Cable: Medium Tower >40 - <70                      **Process:** Harvester Head Delimbing  
**yarding distance:** Medium (800 ft)                      **downhill yarding:** No  
**tree size:** Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF  
**loads / day:** 12                      **bd. ft / load:** 4800  
**cost / mbf:** \$126.73  
**machines:** Log Loader (A)  
Forwarder  
Harvester  
Tower Yarder (Medium)

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**Combination#: 2**                      Douglas - Fir                      32.00%  
   Alder (Red)                      32.00%

**Logging System:** Shovel                      **Process:** Harvester Head Delimbing  
**yarding distance:** Short (400 ft)                      **downhill yarding:** No  
**tree size:** Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF  
**loads / day:** 21                      **bd. ft / load:** 4800  
**cost / mbf:** \$74.40  
**machines:** Forwarder  
Harvester

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### Logging Costs

Operating Seasons: 2.00	Profit Risk: 15%
Project Costs: \$272,185.00	Other Costs (P/R): \$0.00
Slash Disposal: \$2,500.00	Other Costs: \$7,500.00

Miles of Road

Road Maintenance: \$4.22

Dirt	Rock (Contractor)	Rock (State)	Paved
0.0	0.0	0.0	0.0

Hauling Costs

Species	\$ / MBF	Trips/Day	MBF / Load
Douglas - Fir	\$0.00	2.0	4.8
Alder (Red)	\$0.00	2.0	3.7



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### Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
<b>Douglas - Fir</b>									
\$109.98	\$4.30	\$8.74	\$132.81	\$0.00	\$38.37	\$0.63	\$2.00	\$1.89	\$298.72
<b>Alder (Red)</b>									
\$109.98	\$4.43	\$8.74	\$177.37	\$0.00	\$45.08	\$0.63	\$2.00	\$1.89	\$350.12

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$796.12	\$497.40	\$0.00
Alder (Red)	\$0.00	\$541.00	\$190.88	\$0.00



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### 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	3,945	\$497.40	\$1,962,243.00
Alder (Red)	32	\$190.88	\$6,108.16

#### Gross Timber Sale Value

Recovery: \$1,968,351.16

Prepared By: Colton Turner

Phone: --

**TIMBER SALE SUMMARY**  
**Scoggins Divide**  
**#FG-341-2024-W00945-01**

1. **Location:** Portions of Sections 27 and 28, T1N, R5W, W.M., Washington County, Oregon.
2. **Type of Sale:** This timber sale is 83 net acres of Modified Clearcut. The timber will be sold on a recovery basis at a sealed bid auction.
3. **Revenue Distribution:** 100% BOF; 100% Washington County.
4. **Sale Acreage:** Acres are net of stream buffers and road prisms. Acreage was determined using ESRI ArcMap GIS software.
5. **Cruise:** The timber sale was cruised by ODF Cruisers in March of 2023. For more information, see Cruise Report.
6. **Timber Description:** The Timber Sale Area consists of a well-stocked, partially thinned 68-year old Douglas-fir stand with minor amounts of bigleaf maple, western redcedar, and red alder. This timber stand has an average of 238 ft<sup>2</sup> of basal area per acre, an average Douglas-fir DBH of 21 inches, and an estimated average net Douglas-fir volume of approximately 47.7 MBF per acre.
7. **Topography and Logging Method:** Slopes within the Timber Sale Area range from 5% to 80% with variable aspects. The Timber Sale Area is 68% cable-based yarding and 32% ground-based yarding. The average horizontal skid trail length is approximately 200 feet and the maximum is approximately 400 feet. The average cable road length is 500 feet and the maximum is approximately 1,100 feet.
8. **Access:** All access to the Timber Sale Area is on surfaced all-weather roads. From the junction of Highway 8 and Highway 47 in Forest Grove, travel south for 5.3 miles on Highway 47 to Scoggins Valley Road. Turn right and continue 7.7 miles on the paved portion of Scoggins Valley Road along the north side of Hagg Lake to where the pavement ends. Continue on the graveled portion of Scoggins Valley Road for 5.1 miles to enter the northeastern portion of the Timber Sale Area. There is one gate along this route that will require a key which can be obtained from the Forest Grove District Office.
9. **Projects:**

Project No. 1: Rocked Road Construction	\$162,291.40
Project No. 2: Road Improvement	\$109,893.60
Total Credit for all Projects	\$272,185.00



**PROJECT COST SUMMARY SHEET**

Timber Sale: Scoggins Divide  
Sale Number: FG-341-2024-W00945-01

**PROJECT NO. 1: ROCKED ROAD CONSTRUCTION**

	Road Segment	Length	Cost
	D to E	23+30	\$112,753.11
	F to G	3+40	\$13,738.35
	H to I	4+00	\$17,193.60
		30+70 stations	
		0.58 miles	
Total Rock =	120 cy	1½" - 0	
	4,921 cy	4" - 0	
	381 cy	Pit-run	
		Move-in =	\$3,852.57
		<b>TOTAL PROJECT COST =</b>	<b>\$147,537.63</b>
		<b>10% FUEL ADJUSTMENT =</b>	<b>\$162,291.40</b>

**PROJECT NO. 2: ROAD IMPROVEMENT**

	Road Segment	Length	Cost
	A to B	72+75	\$44,590.49
	C to D	47+65	\$52,704.06
		120+40 stations	
		2.28 miles	
Total Rock =	1,425 cy	1½" - 0	
		Move-in =	\$2,608.72
		<b>TOTAL PROJECT COST =</b>	<b>\$99,903.27</b>
		<b>10% FUEL ADJUSTMENT =</b>	<b>\$109,893.60</b>
		<b>TOTAL CREDITS =</b>	<b>\$247,440.90</b>
		<b>TOTAL CREDITS WITH 10% FUEL ADJUSTMENT =</b>	<b>\$272,185.00</b>

# SUMMARY OF CONSTRUCTION COST

Timber Sale: Scoggins Divide  
 Road Segment: A to B

Sale Number: FG-341-2024-W00945-01  
 Improvement: 72+75 stations  
1.38 miles

## PROJECT NO. 2: ROAD IMPROVEMENT

### IMPROVEMENT

Clearing & grubbing (scatter)	0.84	ac @	\$1,078.00	per acre =	\$905.52
Roadside brushing	0.37	mi @	\$1,166.67	per mi =	\$431.67
Clean ditch & scatter waste material	3.05	sta @	\$60.00	per sta =	\$183.00
Construct roadside landing	2	ea @	\$165.00	per ea =	\$330.00
Grade, ditch, & roll	72.75	sta @	\$36.00	per sta =	\$2,619.00

**TOTAL IMPROVEMENT COSTS = \$4,469.19**

### CULVERTS

Markers & Stakes					
Culvert markers	1	ea @	\$10.00	per ea =	\$10.00
Additional Installation Cost					
Repair inlet at 58+35	0.25	hrs @	\$175.00	per hr =	\$43.75

**TOTAL CULVERT COSTS = \$53.75**

### ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
<b>Surfacing rock</b>						
Surfacing rock	1½" - 0	\$14.50	\$13.63	\$1.22	1,091	\$32,020.85
Junction	1½" - 0	\$14.50	\$13.63	\$1.22	72	\$2,113.20
Roadside landing	1½" - 0	\$14.50	\$13.63	\$1.22	190	\$5,576.50
Subtotal =					1,353	\$39,710.55

Totals

All Rock =	1,353
1½" - 0	1,353

**TOTAL ROCK COSTS = \$39,710.55**

### EROSION CONTROL

Grass seed & fertilizer	0.84	ac @	\$425.00	per ac =	\$357.00
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**TOTAL EROSION CONTROL COSTS = \$357.00**

**TOTAL PROJECT COST = \$44,590.49**

# SUMMARY OF CONSTRUCTION COST

Timber Sale: Scoggins Divide  
Road Segment: C to D

Sale Number: FG-341-2024-W00945-01  
Improvement: 47+65 stations  
0.90 miles

## PROJECT NO. 2: ROAD IMPROVEMENT

### IMPROVEMENT

Clearing & grubbing (scatter)	0.55	ac @	\$1,078.00	per acre =	\$592.90
Roadside brushing	0.90	mi @	\$1,166.67	per mi =	\$1,050.00
Clean culvert inlet & outlet, scatter waste	3	ea @	\$25.00	per ea =	\$75.00
Grade, ditch, & roll	47.65	sta @	\$36.00	per sta =	\$1,715.40

**TOTAL IMPROVEMENT COSTS = \$3,433.30**

### CULVERTS

Culverts and Bands					
18" Diameter	90	lf @	\$20.00	per lf =	\$1,800.00
Markers & Stakes					
Culvert markers	4	ea @	\$10.00	per ea =	\$40.00

**TOTAL CULVERT COSTS = \$1,840.00**

### ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
<b>Subgrade rock</b>						
Bedding and backfill	1½" - 0	\$14.50	\$14.09	\$0.50	72	\$2,094.48
Subtotal =					72	\$2,094.48
<b>Surfacing rock</b>						
Surfacing rock	4" - 0	\$14.50	\$14.09	\$1.22	1,477	\$44,029.37
Junction	4" - 0	\$14.50	\$14.09	\$1.22	36	\$1,073.16
Subtotal =					1,513	\$45,102.53

Totals	All Rock =	1,585
	1½" - 0	72
	4" - 0	1,513

**TOTAL ROCK COSTS = \$47,197.01**

### EROSION CONTROL

Grass seed & fertilizer	0.55	ac @	\$425.00	per ac =	\$233.75
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**TOTAL EROSION CONTROL COSTS = \$233.75**

**TOTAL PROJECT COST = \$52,704.06**

# SUMMARY OF CONSTRUCTION COST

Timber Sale: Scoggins Divide  
Road Segment: D to E

Sale Number: FG-341-2024-W00945-01  
Construction: 23+30 stations  
0.44 miles

## PROJECT NO. 1: ROCKED ROAD CONSTRUCTION

### CONSTRUCTION

Clearing & grubbing (scatter)	2.90	ac @	\$1,078.00	per ac =	\$3,126.20
Balanced road construction	18.95	sta @	\$110.00	per sta =	\$2,084.50
Drift	4.35	sta @	\$180.00	per sta =	\$783.00
Full Bench Road Re-alignment					
Excavate & load	486	cy @	\$1.64	per cy =	\$797.04
Haul	632	cy @	\$0.85	per cy =	\$537.20
Shape and compact waste material	632	cy @	\$0.30	per cy =	\$189.60
Puncheon Removal					
Excavate & load	250	cy @	\$3.28	per cy =	\$820.00
Haul	325	cy @	\$0.42	per cy =	\$136.50
Shape and compact waste material	325	cy @	\$2.90	per cy =	\$942.50
Construct settling pond	15	ea @	\$25.00	per ea =	\$375.00
Turnout	3	ea @	\$66.00	per ea =	\$198.00
Turnaround	1	ea @	\$82.50	per ea =	\$82.50
Approach to landing	1.95	sta @	\$110.00	per sta =	\$214.50
Roadside landing	2	ea @	\$165.00	per ea =	\$330.00
Landing	3	ea @	\$314.00	per ea =	\$942.00
Grade, ditch, & roll	23.30	sta @	\$36.00	per sta =	\$838.80

**TOTAL CONSTRUCTION COSTS = \$12,397.34**

### CULVERTS

Culverts and Bands					
18" Diameter	220	lf @	\$20.00	per lf =	\$4,400.00
24" Diameter	100	lf @	\$29.00	per lf =	\$2,900.00
30" Diameter	50	lf @	\$39.00	per lf =	\$1,950.00
Markers & Stakes					
Culvert markers	10	ea @	\$10.00	per ea =	\$100.00

**TOTAL CULVERT COSTS = \$9,350.00**

### ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
<b>Subgrade rock</b>						
Bedding and backfill	1½" - 0	\$14.50	\$14.77	\$0.50	96	\$2,857.92
Subgrade reinforcement	Pit-run	\$11.50	\$14.77	\$0.75	381	\$10,294.62
Subtotal =					477	\$13,152.54
<b>Surfacing rock</b>						
Base rock	4" - 0	\$14.50	\$14.77	\$1.22	1,515	\$46,192.35
Junction	4" - 0	\$14.50	\$14.77	\$1.22	48	\$1,463.52
Turnout	4" - 0	\$14.50	\$14.77	\$1.22	87	\$2,652.63
Turnaround	4" - 0	\$14.50	\$14.77	\$1.22	20	\$609.80
Approach to landing	4" - 0	\$14.50	\$14.77	\$1.22	127	\$3,872.23
Roadside landing	4" - 0	\$14.50	\$14.77	\$1.22	190	\$5,793.10
Landing	4" - 0	\$14.50	\$14.77	\$1.22	540	\$16,464.60
Subtotal =					2,527	\$77,048.23

Totals

All Rock =	3,004
1½" - 0	96
4" - 0	2,527
Pit-run	381

**TOTAL ROCK COSTS = \$90,200.77**

### EROSION CONTROL

Grass seed & fertilizer	1.45	ac @	\$500.00	per ac =	\$725.00
Straw mulch (bale)	8	ea @	\$10.00	per ea =	\$80.00

**TOTAL EROSION CONTROL COSTS = \$805.00**

**TOTAL PROJECT COST = \$112,753.11**

# SUMMARY OF CONSTRUCTION COST

Timber Sale: Scoggins Divide  
Road Segment: F to G

Sale Number: FG-341-2024-W00945-01  
Construction: 3+40 stations  
0.06 miles

## PROJECT NO. 1: ROCKED ROAD CONSTRUCTION

### CONSTRUCTION

Clearing & grubbing (scatter)	0.40	ac @	\$1,078.00 per ac =	\$431.20
Balanced road construction	3.40	sta @	\$110.00 per sta =	\$374.00
Turnaround	1	ea @	\$82.50 per ea =	\$82.50
Landing	1	ea @	\$314.00 per ea =	\$314.00
Grade, ditch, & roll	3.40	sta @	\$36.00 per sta =	\$122.40

**TOTAL CONSTRUCTION COSTS = \$1,324.10**

### ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
<b>Surfacing rock</b>						
Base rock	4" - 0	\$14.50	\$13.53	\$1.22	221	\$6,464.25
Turnaround	4" - 0	\$14.50	\$13.53	\$1.22	20	\$585.00
Landing	4" - 0	\$14.50	\$13.53	\$1.22	180	\$5,265.00
Subtotal =					421	\$12,314.25

Totals

All Rock =	421
4" - 0	421

**TOTAL ROCK COSTS = \$12,314.25**

### EROSION CONTROL

Grass seed & fertilizer	0.20	ac @	\$500.00 per ac =	\$100.00
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**TOTAL EROSION CONTROL COSTS = \$100.00**

**TOTAL PROJECT COST = \$13,738.35**

# SUMMARY OF CONSTRUCTION COST

Timber Sale: Scoggins Divide  
Road Segment: H to I

Sale Number: FG-341-2024-W00945-01  
Construction: 4+00 stations  
0.08 miles

## PROJECT NO. 1: ROCKED ROAD CONSTRUCTION

### CONSTRUCTION

Clearing & grubbing (scatter)	0.46	ac @	\$1,078.00 per ac =	\$495.88
Balanced road construction	2.25	sta @	\$110.00 per sta =	\$247.50
Drift	1.75	sta @	\$180.00 per sta =	\$315.00
Construct settling pond	6	ea @	\$25.00 per ea =	\$150.00
Turnaround	1	ea @	\$82.50 per ea =	\$82.50
Landing	1	ea @	\$314.00 per ea =	\$314.00
Grade, ditch, & roll	4.00	sta @	\$36.00 per sta =	\$144.00

**TOTAL CONSTRUCTION COSTS = \$1,748.88**

### CULVERTS

Culverts and Bands				
24" Diameter	40	lf @	\$29.00 per lf =	\$1,160.00
Markers & Stakes				
Culvert markers	1	ea @	\$10.00 per ea =	\$10.00

**TOTAL CULVERT COSTS = \$1,170.00**

### ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
<b>Subgrade rock</b>						
Bedding and backfill	1½" - 0	\$14.50	\$13.53	\$0.50	24	\$684.72
Subtotal =					24	\$684.72
<b>Surfacing rock</b>						
Base rock	4" - 0	\$14.50	\$13.53	\$1.22	260	\$7,605.00
Turnaround	4" - 0	\$14.50	\$13.53	\$1.22	20	\$585.00
Landing	4" - 0	\$14.50	\$13.53	\$1.22	180	\$5,265.00
Subtotal =					460	\$13,455.00

Totals

All Rock =	484
1½" - 0	24
4" - 0	460

**TOTAL ROCK COSTS = \$14,139.72**

### EROSION CONTROL

Grass seed & fertilizer	0.23	ac @	\$500.00 per ac =	\$115.00
Straw mulch (bale)	2	ea @	\$10.00 per ea =	\$20.00

**TOTAL EROSION CONTROL COSTS = \$135.00**

**TOTAL PROJECT COST = \$17,193.60**

Timber Sale: Scoggins Divide

### **PROJECT No. 1 & 2 MOVE-IN & CLEANING COSTS**

<u>Equipment</u>	<u>Total</u>
Brush Cutter	\$512.03
Grader	\$822.81
Roller (smooth/grid) & Compactor	\$512.03
Excavator (Large) - Equipment Cleaning	\$1,822.81
Dozer (Large) - Equipment Cleaning	\$1,867.39
Dump Truck (10cy +)	\$770.23
Water Truck (2,500 Gal)	\$154.00
<b><u>TOTAL MOVE-IN COSTS =</u></b>	<b><u>\$6,461.30</u></b>

**CRUISE REPORT**  
**Scoggins Divide**  
**#FG-341-2024-W00945-01**

**1. LOCATION:**

Portions of Sections 27 and 28, T1N, R5W, W.M., Washington County, Oregon.

**2. CRUISE DESIGN:**

The timber cruise was designed using an estimated coefficient of variation (CV) of 59%, average stand diameter of 20 inches, sampling error (SE) of 10% and a minimum of 100 grade trees.

**3. SAMPLING METHOD:**

The Timber Sale Area was cruised in March of 2023 with 34 variable radius grade plots using a 40 BAF prism. Plots were laid out on a 4 chain x 5 chain grid. Plots falling on or near existing roads or no-harvest areas were offset 1 chain.

**4. CRUISE RESULTS:**

217 trees were measured and graded producing a cumulative sampling error of 7.2% on the Douglas-fir Basal Area and 7.6% on the Douglas-fir Net Board Foot Volume.

**5. TREE MEASUREMENT AND GRADING:**

All sample trees were measured and graded following the Official Log Scaling and Grading Rules as adopted by the NW Log Rules Advisory Group. 40 foot segments were favored.

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

**6. DATA PROCESSING:**

- a) **Volumes and Statistics:** Cruise estimates and sampling statistics were derived from SuperAce 2008 cruise software.
- b) **Deductions:** The following percent volume deductions are by species to account for the hidden defect and breakage. For conifers two percent was deducted. For hardwoods five percent was deducted.

**7. CRUISERS:**

The sale was cruised by ODF cruisers Colton Turner, Mark Savage, and Shamus Smith.

Prepared by: Colton Turner 3-30-2023

Reviewed by: Mark Savage 4-10-2023  
Date



TC PSTATS				PROJECT STATISTICS				PAGE	1		
				PROJECT	SCOGDIV			DATE	3/29/2023		
TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt	
T1N	R5	27	00U1	00MC		83.00	34	229	S	W	
				TREES		ESTIMATED	PERCENT				
				PER PLOT		TOTAL	SAMPLE				
				PLOTS	TREES	TREES	TREES				
TOTAL			34	229	6.7						
CRUISE			34	229	6.7	10,762	2.1				
DBH COUNT											
REFOREST											
COUNT											
BLANKS											
100 %											
STAND SUMMARY											
SAMPLE			TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET
TREES			/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC
DOUG FIR			198	93.1	21.4	123	50.2	232.0	48,679	48,512	10,493
DOUG FIR-S			8	9.2	13.7	69	2.5	9.4			
BL MAPLE			14	16.5	13.5	78	4.5	16.5	1,078	1,078	343
R ALDER			5	6.7	12.7	86	1.6	5.9	409	409	151
R ALDER-S			4	4.1	14.4	38	1.2	4.7			
TOTAL			229	129.7	19.5	109	60.8	268.5	50,166	50,000	10,987
CONFIDENCE LIMITS OF THE SAMPLE											
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR											
CL	68.1	COEFF		SAMPLE TREES - BF				# OF TREES REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5		10	15	
DOUG FIR		92.5	6.6	811	868	925					
DOUG FIR-S											
BL MAPLE		48.8	13.5	69	79	90					
R ALDER		13.5	6.7	58	62	66					
R ALDER-S											
TOTAL		105.5	7.0	704	757	810	444	111	49		
CL	68.1	COEFF		SAMPLE TREES - CF				# OF TREES REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5		10	15	
DOUG FIR		79.1	5.6	168	178	188					
DOUG FIR-S											
BL MAPLE		51.9	14.4	22	25	29					
R ALDER		32.2	16.0	20	24	28					
R ALDER-S											
TOTAL		91.3	6.0	147	156	166	333	83	37		
CL	68.1	COEFF		TREES/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5		10	15	
DOUG FIR		63.3	10.9	83	93	103					
DOUG FIR-S		315.1	54.0	4	9	14					
BL MAPLE		176.2	30.2	12	17	22					
R ALDER		349.8	59.9	3	7	11					
R ALDER-S		422.2	72.3	1	4	7					
TOTAL		46.8	8.0	119	130	140	88	22	10		
CL	68.1	COEFF		BASAL AREA/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5		10	15	
DOUG FIR		41.8	7.2	215	232	249					
DOUG FIR-S		257.5	44.1	5	9	14					
BL MAPLE		159.5	27.3	12	16	21					
R ALDER		340.3	58.3	2	6	9					
R ALDER-S		456.8	78.3	1	5	8					
TOTAL		32.9	5.6	253	268	284	43	11	5		

**PROJECT STATISTICS****PROJECT****SCOGDIV**

DATE

3/29/2023

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
T1N	R5	27	00U1	00MC	83.00	34	229	S	W

CL	68.1	COEFF	NET BF/ACRE			# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DOUG FIR		44.4	7.6	44,824	48,512	52,201			
DOUG FIR-S									
BL MAPLE		166.6	28.5	771	1,078	1,386			
R ALDER		345.2	59.1	167	409	651			
R ALDER-S									
<b>TOTAL</b>		<i>42.0</i>	<i>7.2</i>	<i>46,399</i>	<i>50,000</i>	<i>53,600</i>	<i>71</i>	<i>18</i>	<i>8</i>

CL	68.1	COEFF	NET CUFT FT/ACRE			# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DOUG FIR		42.3	7.2	9,732	10,493	11,254			
DOUG FIR-S									
BL MAPLE		175.9	30.1	239	343	446			
R ALDER		337.8	57.9	64	151	239			
R ALDER-S									
<b>TOTAL</b>		<i>38.8</i>	<i>6.7</i>	<i>10,255</i>	<i>10,987</i>	<i>11,718</i>	<i>60</i>	<i>15</i>	<i>7</i>

TC		PSPCSTGR		Species, Sort Grade - Board Foot Volumes (Project)																	
<div>TT1N RR5W S27 Ty00MC83.00</div>				Project: SCOGDIV												Page 1					
				Acres 83.00												Date 3/29/2023					
																Time 11:30:49AM					
Spp	S T	So rt	Gr ad	%	Bd. Ft. per Acre			Total Net MBF	Percent of Net Board Foot Volume								Average Log				Logs Per /Acre
				Net BdFt					Def%	Gross	Net	Log Scale Dia.				Log Length				Ln Ft	
				4-5	6-11	12-16	17+		12-20	21-30	31-35	36-99									
DF			CU														28	8		0.00	17.1
DF			2M	77	.4	37,558	37,401	3,104			45	55	0	0		99	40	16	418	2.13	89.6
DF			3M	20	.1	10,084	10,076	836		100	0		0	1	4	95	39	8	102	0.69	98.9
DF			4M	3	.2	1,037	1,035	86		100			36	64			21	6	24	0.34	42.5
DF Totals				97	.3	48,679	48,512	4,027		23	34	43	1	2	1	96	35	11	196	1.20	248.1
BM			CU														22	8		0.00	6.3
BM			CR	100		1,078	1,078	90		85	15		12	21	43	24	28	8	65	0.73	16.5
BM Totals				2		1,078	1,078	90		85	15		12	21	43	24	27	8	47	0.57	22.8
RA			CU														18	9		0.00	5.4
RA			CR	100		409	409	34		100				16	26	58	35	7	61	0.65	6.7
RA Totals				1		409	409	34		100				16	26	58	27	8	34	0.46	12.1
Totals					0.3	50,166	50,000	4,150		25	34	42	1	2	2	94	34	10	177	1.13	283.1

TC		PSTNDSUM		Stand Table Summary										Page		1		
														Date:		3/29/2023		
TT1N RR5W S27 Ty00MC		83.00		Project		SCOGDIV				Time:		11:30:52AM						
				Acres		83.00				Grown Year:								
S Spec	T	Sample		Tot		Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net		Tons/ Acre	Cu.Ft. Acre	Net Bd.Ft. Acre	T o t a l s		
		DBH	Trees	FF 16'	Av Ht				Net Cu.Ft.	Net Bd.Ft.	Tons	Cunits				MBF		
DF		9	2	85	62	5.326	2.35	2.66	7.6	30.0	.58	20	80	48	17	7		
DF		10	1	86	114	2.157	1.18	4.31	7.6	35.0	.93	33	151	77	27	13		
DF		11	2	85	64	3.565	2.35	1.78	13.4	60.0	.68	24	107	56	20	9		
DF		12	2	87	87	2.996	2.35	4.49	14.3	56.7	1.83	64	255	152	53	21		
DF		13	5	86	96	6.382	5.88	10.21	15.5	67.5	4.50	158	689	374	131	57		
DF		14	3	88	97	3.302	3.53	4.40	18.4	80.0	2.31	81	352	192	67	29		
DF		15	6	87	102	5.752	7.06	11.50	21.1	88.3	6.91	242	1,016	574	201	84		
DF		16	4	86	104	3.370	4.71	5.06	25.8	108.3	3.71	130	548	308	108	45		
DF		17	10	87	120	7.464	11.76	17.17	27.0	113.0	13.21	463	1,941	1,096	385	161		
DF		18	11	87	125	7.323	12.94	16.64	29.9	124.8	14.19	498	2,077	1,178	413	172		
DF		19	12	87	123	7.170	14.12	17.33	32.8	137.6	16.21	569	2,384	1,346	472	198		
DF		20	14	87	111	7.550	16.47	16.18	36.5	146.0	16.85	591	2,362	1,398	491	196		
DF		21	6	87	134	2.543	6.12	7.04	39.7	173.7	7.97	280	1,224	662	232	102		
DF		22	14	86	130	6.239	16.47	18.27	40.2	178.3	20.95	735	3,258	1,739	610	270		
DF		23	12	87	135	4.893	14.12	14.68	44.4	201.1	18.57	652	2,952	1,542	541	245		
DF		24	15	87	135	5.617	17.65	15.35	50.0	225.4	21.88	768	3,460	1,816	637	287		
DF		25	6	86	132	2.071	7.06	6.21	52.4	227.8	9.27	325	1,415	769	270	117		
DF		26	16	86	141	5.105	18.82	15.32	59.3	271.0	25.88	908	4,151	2,148	754	345		
DF		27	7	86	142	2.071	8.24	6.21	65.1	304.3	11.53	405	1,891	957	336	157		
DF		28	4	87	141	1.101	4.71	3.30	69.9	335.8	6.58	231	1,109	546	192	92		
DF		29	5	87	149	1.282	5.88	3.85	78.6	391.3	8.62	302	1,506	716	251	125		
DF		30	8	86	150	1.917	9.41	5.75	84.0	414.2	13.76	483	2,382	1,142	401	198		
DF		31	5	88	142	1.122	5.88	3.37	81.2	398.7	7.79	273	1,342	647	227	111		
DF		32	12	87	154	2.528	14.12	8.22	90.6	461.5	21.20	744	3,792	1,760	618	315		
DF		33	2	87	168	.396	2.35	1.58	83.7	438.7	3.78	133	695	314	110	58		
DF		34	3	85	151	.560	3.53	1.68	105.8	517.8	5.07	178	870	420	148	72		
DF		35	2	83	134	.352	2.35	1.06	102.7	450.0	3.09	109	475	257	90	39		
DF		36	2	86	168	.333	2.35	1.17	114.9	640.0	3.82	134	746	317	111	62		
DF		37	2	88	148	.315	2.35	.95	129.7	696.7	3.49	123	659	290	102	55		
DF		38	1	86	164	.149	1.18	.60	109.8	582.5	1.87	66	348	155	54	29		
DF		40	2	87	167	.270	2.35	.94	140.4	778.6	3.78	133	735	313	110	61		
DF		41	1	86	148	.128	1.18	.38	158.0	810.0	1.73	61	312	144	50	26		
DF		42	3	85	171	.367	3.53	1.35	148.2	809.1	5.68	199	1,088	472	165	90		
DF		44	1	86	158	.111	1.18	.33	123.6	723.3	1.18	41	242	98	34	20		
DF		45	1	85	188	.107	1.18	.43	171.2	987.5	2.08	73	421	173	61	35		
DF		46	1	85	160	.102	1.18	.31	204.0	1093.3	1.78	62	334	148	52	28		
DF		47	1	83	174	.098	1.18	.39	172.3	940.0	1.92	67	367	159	56	30		
DF		50	1	84	161	.086	1.18	.26	246.0	1320.0	1.81	64	342	151	53	28		
DF		51	1	90	173	.083	1.18	.33	215.7	1315.0	2.04	72	436	169	59	36		
DF		Totals	206	87	118	102.304	241.41	231.06	45.4	210.0	299.05	10,493	48,512	24,821	8,709	4,027		
BM		9	1	82	93	2.663	1.18	2.66	5.7	30.0	.40	15	80	33	13	7		
BM		10	1	79	63	2.157	1.18	2.16	8.9	40.0	.51	19	86	42	16	7		
BM		12	1	74	70	1.498	1.18	1.50	19.0	60.0	.76	28	90	63	24	7		
BM		13	3	75	80	3.829	3.53	3.83	24.5	70.0	2.48	94	268	206	78	22		
BM		14	2	75	80	2.201	2.35	2.20	24.4	65.0	1.42	54	143	118	45	12		
BM		15	1	83	49	.959	1.18	.96	25.4	60.0	.65	24	58	54	20	5		
BM		16	1	74	88	.843	1.18	.84	23.3	80.0	.52	20	67	43	16	6		
BM		17	1	73	79	.746	1.18	.75	45.8	110.0	.91	34	82	75	28	7		
BM		18	1	74	79	.666	1.18	.67	13.3	70.0	.23	9	47	19	7	4		
BM		20	1	73	97	.539	1.18	.54	54.8	160.0	.78	30	86	65	25	7		
BM		22	1	77	90	.446	1.18	.45	34.9	160.0	.41	16	71	34	13	6		
BM		Totals	14	77	78	16.546	16.47	16.55	20.7	65.2	9.08	343	1,078	753	284	90		

TC		PSTNDSUM										Stand Table Summary						Page		2	
																		Date:		3/29/2023	
<div>TT1N RR5W S27 Ty00MC</div> <div>83.00</div>												Project		SCOGDIV				Time:		11:30:52AM	
												Acres		83.00				Grown Year:			
S Sp	T				Tot						Average Log				Net		Net		T o t a l s		
		DBH	Sample Trees	FF 16'	Av Ht	Trees/ Acre	BA/ Acre	Logs Acre	Net Cu.Ft.	Net Bd.Ft.	Tons/ Acre	Cu.Ft. Acre	Bd.Ft. Acre	Tons	Cunits	MBF					
RA		11	1	73	109	1.783	1.18	1.78	16.8	60.0	.83	30	107	69	25	9					
RA		12	2	74	85	2.996	2.35	1.50	21.4	60.0	.88	32	90	73	27	7					
RA		13	2	74	67	2.553	2.35	2.55	22.7	60.0	1.59	58	153	132	48	13					
RA		15	1	98	18	.959	1.18														
RA		16	3	83	40	2.528	3.53	.84	36.9	70.0	.85	31	59	71	26	5					
RA		Totals		9	78	68	10.818	10.59	6.68	22.6	61.3	4.16	151	409	345	125	34				
Totals		229			85	109	129.668	268.47	254.29	43.2	196.6	312.28	10,987	50,000	25,919	9,119	4,150				

TC		PLOGSTVB		Log Stock Table - MBF																		
TT1N RR5W S27 Ty00MC				83.00		Project:		SCOGDIV										Page		1		
						Acres		83.00										Date		3/29/2023		
																		Time		11:30:47AM		
S T  Spp	So Gr rt	Log de Len	Gross MBF	Def %	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches															
							2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+				
DF	2M	18	15		15	.4					8		7									
DF	2M	22	1		1	.0					1											
DF	2M	28	4		4	.1					4											
DF	2M	40	3,097		3,084	76.6					566		466	1017	620	305	111					
DF	3M	20	1		1	.0					1											
DF	3M	22	1		1	.0				1												
DF	3M	24	1		1	.0					1											
DF	3M	26	3		3	.1				1	2											
DF	3M	28	2		2	.1				2												
DF	3M	30	4		4	.1				2	2											
DF	3M	32	11		11	.3				8	1	1										
DF	3M	34	21		21	.5				20	1											
DF	3M	36	17		17	.4				17												
DF	3M	38	15		15	.4				11	4											
DF	3M	40	762		761	18.9				146	252	359	4									
DF	4M	12	6		6	.1				5	1											
DF	4M	14	6		6	.2				5	1											
DF	4M	16	5	3.0	5	.1				4	0											
DF	4M	18	7		7	.2				7												
DF	4M	20	7		7	.2				7												
DF	4M	22	10		10	.3				10												
DF	4M	24	10		10	.2				10												
DF	4M	26	9		9	.2				9												
DF	4M	28	17		17	.4				17												
DF	4M	30	8		8	.2				8												
DF	Totals		4,040		4,027	97.0				290	265	364	583	473	1017	620	305	111				
BM	CR	16	7		7	7.4				7												
BM	CR	20	4		4	4.3					4											
BM	CR	22	13		13	14.3				7		6										
BM	CR	28	6		6	7.1					6											
BM	CR	32	28		28	31.2				7	7		13									
BM	CR	34	10		10	11.5				10												
BM	CR	38	22		22	24.2				15	7											
BM	Totals		90		90	2.2				46	21	9	13									
RA	CR	30	5		5	15.6				5												
RA	CR	32	9		9	26.2				9												

TC		PLOGSTVB		Log Stock Table - MBF																
<div>TT1N RR5W S27 Ty00MC</div> <div>83.00</div>				Project:		SCOGDIV		Page		2										
								Date		3/29/2023										
								Time		11:30:47AM										
S	T	So Gr	Log	Gross	Def	Net	%	Net Volume by Scaling Diameter in Inches												
								rt	de	Len	MBF	%	MBF	Spc	2-3	4-5	6-7	8-9	10-11	12-13
RA		CR	36	7		7	22.0			7										
RA		CR	38	7		7	21.8			7										
RA		CR	40	5		5	14.4			5										
RA		Totals		34		34	.8			34										
Total		All Species		4,164		4,150	100.0			370	285	373	596	473	1017	620	305	111		

**VOLUME SUMMARY**  
(Shown in MBF)  
**Scoggins Divide**  
**FG-341-2024-W00945-01**  
**April 2023**

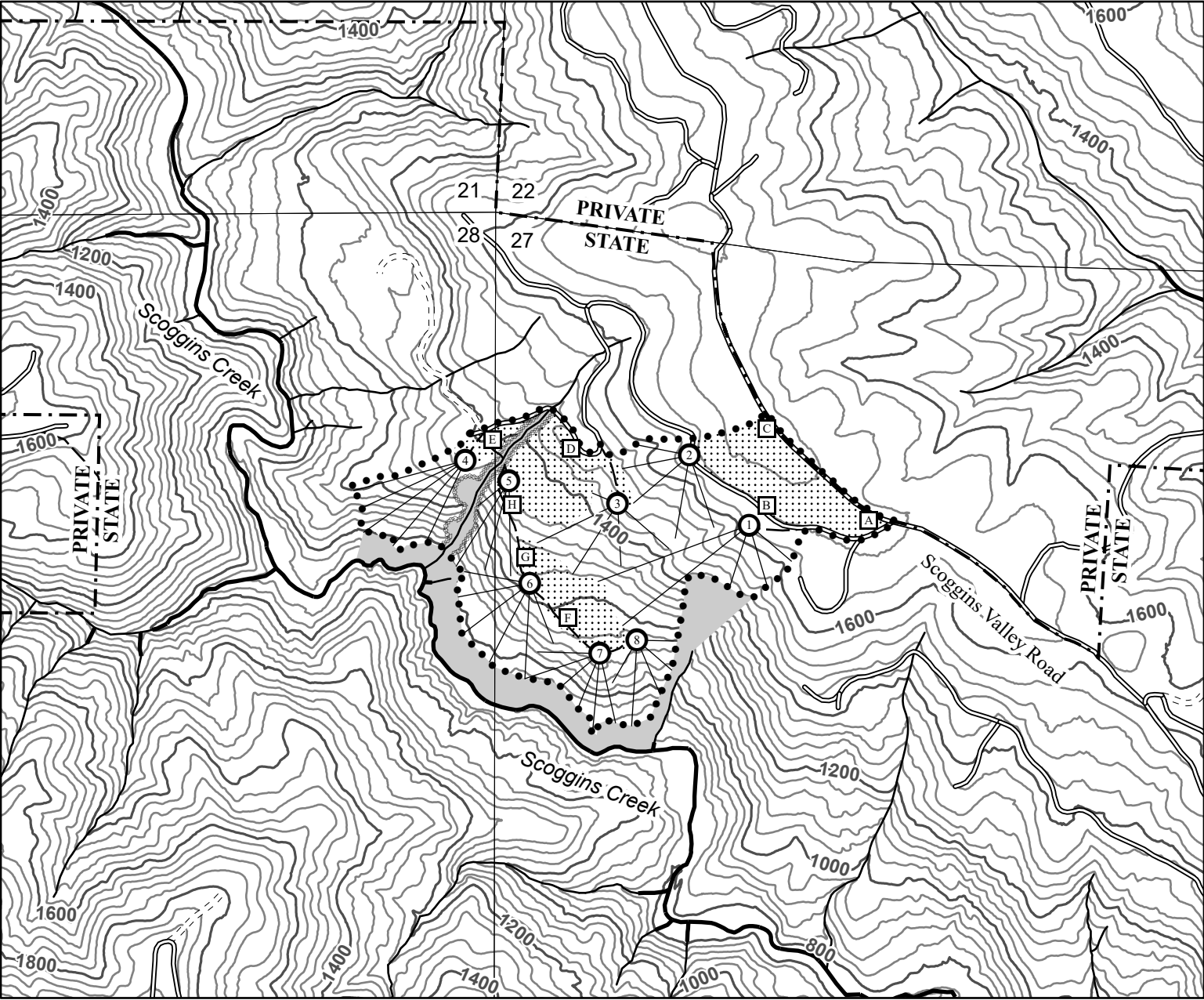
**TIMBER SALE AREA: Modified Clearcut (83 ACRES)**

<b>SPECIES</b>		<b>2 SAW</b>	<b>3 SAW</b>	<b>4 SAW</b>	<b>Camprun</b>	<b>TOTAL</b>
Douglas-fir	Cruise Volume	3,104	836	86	0	4,026
	Hidden D&B (2%)	(62)	(17)	(2)	(0)	(81)
	<b>NET TOTAL</b>	3,042	819	84	0	3,945
	% of Total	77	21	2	0	
Red Alder	Cruise Volume	0	0	0	34	34
	Hidden D&B (5%)	(0)	(0)	(0)	(2)	(2)
	<b>NET TOTAL</b>	0	0	0	32	32
	% of Total	0	0	0	100	

**SALE TOTAL**

<b>SPECIES</b>	<b>2 SAW</b>	<b>3 SAW</b>	<b>4 SAW</b>	<b>Camprun</b>	<b>TOTAL</b>
Douglas-fir	3,042	819	84	0	3,945
Red alder	0	0	0	32	32
<b>Total</b>	<b>3,042</b>	<b>819</b>	<b>84</b>	<b>32</b>	<b>3,977</b>





**LEGEND**

- Timber Sale Boundary
- Stream Buffer Boundary
- ODF Ownership Boundary
- Surfaced Road
- Unsurfaced Road
- New Road Construction
- Type-F Stream
- Type-N Stream
- Stream Buffer
- Cable Yarding Area
- Tractor Yarding Area
- Cable Landing
- Tractor Landing
- Section Lines
- 40 Foot Contour Bands
- 200 Foot Contour Bands

## LOGGING PLAN

FOR TIMBER SALE CONTRACT #FG-341-2024-W00945-01  
SCOGGINS DIVIDE  
PORTIONS OF SECTIONS 27 & 28, T1N, R5W, W.M.,  
WASHINGTON COUNTY, OREGON

Forest Grove District GIS  
April, 2023

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

N

1:12,000

1 inch = 1,000 feet

0 500 1,000 2,000 Feet

APROXIMATE NET ACRES		
	CABLE	TRACTOR
UNIT 1	56	27
TOTAL	56	27