



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Valley View
Sale FG-341-2022-W00868-01

District: Forest Grove

Date: December 20, 2021

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$2,100,084.82	\$0.00	\$2,100,084.82
		Project Work:	(\$93,035.00)
		Advertised Value:	\$2,007,049.82



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District: Forest Grove

Date: December 20, 2021

Timber Description

Location:

Stand Stocking: 20%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	21	0	98
Western Hemlock / Fir	22	0	98

Volume by Grade	2S	3S & 4S 6"-11"	Total
Douglas - Fir	2,566	982	3,548
Western Hemlock / Fir	84	37	121
Total	2,650	1,019	3,669

Comments: Pond Values Used: Local Pond Values, October 2021.

Western redcedar and Other Cedars Stumpage Price = Pond Value minus Logging Cost:
 $\$947.60/\text{MBF} = \$1,150/\text{MBF} - \$202.40/\text{MBF}$

Western hemlock and Other Conifers Stumpage Price = Pond Value minus Logging Cost:
 $\$395.46/\text{MBF} = \$597.86/\text{MBF} - \$202.40/\text{MBF}$

Red alder and Other Hardwoods Stumpage Price = Pond Value minus Logging Cost:
 $\$387.60/\text{MBF} = \$590/\text{MBF} - \$202.40/\text{MBF}$

BRANDING AND PAINTING COST ALLOWANCE = $\$2.00/\text{MBF}$

FUEL COST ALLOWANCE = $\$3.00/\text{Gallon}$

HAULING COST ALLOWANCE
Hauling costs equivalent to $\$950$ daily truck cost.

Other Costs (with Profit & Risk to be added):
None

Other Costs (No Profit & Risk added):
Machine Time to Block/Waterbar Roads, and Skid Trails:
 $20 \text{ hours} \times \$150/\text{hour} = \$3,000$
Machine Time to Pile Landing Slash:
 $20 \text{ hours} \times \$150/\text{hour} = \$3,000$
Equipment Cleaning: $3 \text{ pieces} \times \$1,000/\text{Piece} = \$3,000$
TOTAL Other Costs (No Profit & Risk added) = $\$9,000$

SLASH TREATMENT: $35 \text{ acres} \times \$250/\text{acre} = \$8,750$

ROAD MAINTENANCE
(Includes: Move-in, Grading, Rolling and Spot Rocking)
Move-in = $\$2,260.83$
General Road Maintenance: $6.0 \times \$3,209.81 = \$19,258.86$
TOTAL Road Maintenance: $\$21,519.69 / 3,669 \text{ MBF} = \$5.86/\text{MBF}$



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Logging Conditions

Combination#: 1	Douglas - Fir	100.00%
	Western Hemlock / Fir	100.00%
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:	12	bd. ft / load: 4600
cost / mbf:	\$64.09	
machines:	Feller Buncher w/ Delimber	



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Logging Costs

Operating Seasons: 2.00	Profit Risk: 10%
Project Costs: \$93,035.00	Other Costs (P/R): \$0.00
Slash Disposal: \$8,750.00	Other Costs: \$9,000.00

Miles of Road

Road Maintenance: \$5.86

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	4.6
Western Hemlock / Fir	\$0.00	2.0	4.6



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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
Douglas - Fir									
\$64.09	\$5.98	\$2.39	\$105.33	\$0.00	\$17.78	\$2.38	\$2.00	\$2.45	\$202.40
Western Hemlock / Fir									
\$64.09	\$5.98	\$2.39	\$105.33	\$0.00	\$17.78	\$2.38	\$2.00	\$2.45	\$202.40

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$780.82	\$578.42	\$0.00
Western Hemlock / Fir	\$0.00	\$597.86	\$395.46	\$0.00



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Summary

Amortized

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

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	3,548	\$578.42	\$2,052,234.16
Western Hemlock / Fir	121	\$395.46	\$47,850.66

Gross Timber Sale Value

Recovery: \$2,100,084.82

Prepared By: MARK SAVAGE

Phone: 503-432-0247

TIMBER SALE SUMMARY
Valley View
#FG-341-2022-W00868-01

1. **Location:** Portions of Sections 26 and 27, T1N, R5W, W.M., Washington County, Oregon.
2. **Type of Sale:** This timber sale is 97 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 December of 2021. For more information, see Cruise Report.
6. **Timber Description:** The Timber Sale Area consists of a well-stocked, partially thinned 67-year old Douglas-fir stand with minor amounts of western hemlock, grand fir, western redcedar, and red alder. This timber stand has an average of 185 ft² of basal area per acre, an average Douglas-fir DBH of 21 inches, and an estimated average net Douglas-fir volume of approximately 36.6 MBF per acre.
7. **Topography and Logging Method:** Slopes within the Timber Sale Area range from 5% to 40% with variable aspects. The Timber Sale Area is 100% ground-based yarding. The average horizontal skid trail length is approximately 250 feet and the maximum is approximately 500 feet.
8. **Access:** 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 3.8 miles to enter the southwestern 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: Dirt Road Construction	\$3,787.64
Project No. 2: Road Improvement	\$84,925.47
Project No. 3: Road Brushing	\$1,971.11
Project No. 4: Road Vacating	\$2,350.78
 Total Credit for all Projects	 \$93,035.00

PROJECT COST SUMMARY SHEET

Timber Sale: Valley View
Sale Number: FG-341-2022-W00868-01

PROJECT NO. 1: DIRT ROAD CONSTRUCTION

<u>Road Segment</u>	<u>Length</u>	<u>Cost</u>
<u>A to B</u>	<u>7+60</u>	<u>\$3,505.74</u>
	7+60 stations	
	0.14 miles	

Move-in = \$281.90

TOTAL PROJECT COST = \$3,787.64

PROJECT NO. 2: ROAD IMPROVEMENT

<u>Road Segment</u>	<u>Length</u>	<u>Cost</u>
<u>C to D</u>	<u>26+60</u>	<u>\$29,784.54</u>
<u>E to F</u>	<u>12+00</u>	<u>\$10,304.85</u>
<u>G to H</u>	<u>31+60</u>	<u>\$27,375.33</u>
<u>I to J</u>	<u>7+70</u>	<u>\$8,207.63</u>
<u>K to L</u>	<u>10+60</u>	<u>\$1,410.99</u>
<u>Point M</u>	<u>NA</u>	<u>\$1,643.86</u>
	88+50 stations	
	1.68 miles	

Total Rock =

1,758 cy
48 cy

1½" - 0
Riprap

Move-in = \$6,198.27

TOTAL PROJECT COST = \$84,925.47

PROJECT NO. 3: ROAD BRUSHING

<u>Road Segment</u>	<u>Length</u>	<u>Cost</u>
<u>Brushing</u>	<u>91+14</u>	<u>\$1,824.41</u>
	1.73 miles	

Move-in = \$146.70

TOTAL PROJECT COST = \$1,971.11

PROJECT NO. 4: ROAD VACATING

<u>Road Segment</u>	<u>Length</u>	<u>Cost</u>
<u>A to B</u>	<u>7+60</u>	<u>\$487.75</u>
	7+60 stations	
	0.14 miles	

Move-in = \$1,863.03

TOTAL PROJECT COST = \$2,350.78

TOTAL CREDITS = \$93,035.00

SUMMARY OF CONSTRUCTION COST

Timber Sale: Valley View
Road Segment: A to B

Sale Number: FG-341-2022-W00868-01
Construction: 7+60 stations
0.14 miles

PROJECT NO. 1: DIRT ROAD CONSTRUCTION

CONSTRUCTION

Clearing & grubbing (scatter)	0.88	ac @	\$1,078.00	per ac =	\$948.64
Balanced road construction	7.60	sta @	\$110.00	per sta =	\$836.00
Turnouts	1	ea @	\$66.00	per ea =	\$66.00
Turnaround	1	ea @	\$82.50	per ea =	\$82.50
Roadside Landing	1	ea @	\$165.00	per ea =	\$165.00
Landing	1	ea @	\$314.00	per ea =	\$314.00
Grade, ditch, & roll	7.60	sta @	\$36.00	per sta =	\$273.60
TOTAL CONSTRUCTION COSTS =					\$2,685.74

CULVERTS

Culverts and Bands					
18" Diameter	30	LF @	\$20.00	per lf =	\$600.00
Markers & Stakes					
TOTAL CULVERT COSTS =					\$600.00

EROSION CONTROL

Grass seed & fertilizer	0.44	ac @	\$500.00	per ac =	\$220.00
TOTAL EROSION CONTROL COSTS =					\$220.00

TOTAL PROJECT COST = \$3,505.74

PROJECT NO. 4 ROAD VACATE

Construct tank traps	1	ea @	\$55.00	per ea =	\$55.00
Construct waterbars	3	ea @	\$27.50	per ea =	\$82.50
Rip dirt road surface	7.60	sta @	\$25.00	per sta =	\$190.00
Remove existing culverts	1	ea @	\$150.00	per ea =	\$150.00
Grass seed & fertilizer	0.01	ac @	\$425.00	per ac =	\$4.25
Mulch	0.01	ac @	\$600.00	per ac =	\$6.00
TOTAL PROJECT COST =					\$487.75

SUMMARY OF CONSTRUCTION COST

Timber Sale: Valley View
Road Segment: C to D

Sale Number: FG-341-2022-W00868-01
Improvement: 26+60 stations
0.50 miles

PROJECT NO. 2: ROAD IMPROVEMENT

IMPROVEMENT

Clearing & grubbing (scatter)	0.31	ac @	\$1,078.00	per acre =	\$334.18
Clean ditch & scatter waste material	26.60	sta @	\$60.00	per sta =	\$1,596.00
Clean culvert inlet & outlet, scatter waste	3	ea @	\$25.00	per ea =	\$75.00
Improve Turnouts	3	ea @	\$33.00	per ea =	\$99.00
Construct Turnaround	1	ea @	\$82.50	per ea =	\$82.50
Approach to landing	1.50	sta @	\$690.00	per sta =	\$1,035.00
Construct Roadside Landing	3	ea @	\$165.00	per ea =	\$495.00
Grade, ditch, & roll	26.60	sta @	\$36.00	per sta =	\$957.60

TOTAL IMPROVEMENT COSTS = \$4,674.28

CULVERTS

Culverts and Bands					
18" Diameter	120	LF @	\$20.00	per lf =	\$2,400.00
Markers & Stakes					
Culvert Markers	4	ea @	\$10.00	per ea =	\$40.00

TOTAL CULVERT COSTS = \$2,440.00

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Subgrade rock						
Bedding and backfill	1½" - 0	\$12.00	\$18.89	\$0.50	96	\$3,013.44
Energy dissipator	Riprap	\$12.00	\$18.89	\$1.60	48	\$1,559.52
				Subtotal =	144	\$4,572.96
Surfacing rock						
Surfacing rock	1½" - 0	\$12.00	\$18.89	\$1.22	399	\$12,811.89
Junction	1½" - 0	\$12.00	\$18.89	\$1.22	36	\$1,155.96
Turnout	1½" - 0	\$12.00	\$18.89	\$1.22	21	\$674.31
Turnaround	1½" - 0	\$12.00	\$18.89	\$1.22	6	\$192.66
Approach to landing	1½" - 0	\$12.00	\$18.89	\$1.22	23	\$722.48
Roadside landing	1½" - 0	\$12.00	\$18.89	\$1.22	75	\$2,408.25
				Subtotal =	560	\$17,965.55

Totals

All Rock =	704
1½" - 0	656
Riprap	48

TOTAL ROCK COSTS = \$22,538.51

EROSION CONTROL

Grass seed & fertilizer	0.31	ac @	\$425.00	per ac =	\$131.75
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TOTAL EROSION CONTROL COSTS = \$131.75

TOTAL PROJECT COST = \$29,784.54

SUMMARY OF CONSTRUCTION COST

Timber Sale: Valley View
Road Segment: E to F

Sale Number: FG-341-2022-W00868-01
Improvement: 12+00 stations
0.23 miles

PROJECT NO. 2: ROAD IMPROVEMENT

IMPROVEMENT

Clearing & grubbing (scatter)	0.14	ac @	\$1,078.00	per acre =	\$150.92
Clean ditch & scatter waste material	12.00	sta @	\$60.00	per sta =	\$720.00
Clean culvert inlet & outlet, scatter waste	2	ea @	\$25.00	per ea =	\$50.00
Improve Turnouts	1	ea @	\$33.00	per ea =	\$33.00
Construct Turnaround	1	ea @	\$82.50	per ea =	\$82.50
Construct Roadside Landing	1	ea @	\$165.00	per ea =	\$165.00
Improve Landing	1	ea @	\$157.00	per ea =	\$157.00
Grade, ditch, & roll	12.00	sta @	\$36.00	per sta =	\$432.00

TOTAL IMPROVEMENT COSTS = \$1,790.42

CULVERTS

Markers & Stakes

Culvert Markers	1	ea @	\$10.00	per ea =	\$10.00
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TOTAL CULVERT COSTS = \$10.00

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Surfacing rock						
Surfacing rock	1½" - 0	\$12.00	\$18.89	\$1.22	180	\$5,779.80
Turnout	1½" - 0	\$12.00	\$18.89	\$1.22	7	\$224.77
Turnaround	1½" - 0	\$12.00	\$18.89	\$1.22	6	\$192.66
Roadside landing	1½" - 0	\$12.00	\$18.89	\$1.22	25	\$802.75
Landing	1½" - 0	\$12.00	\$18.89	\$1.22	45	\$1,444.95
Subtotal =					263	\$8,444.93

Totals

All Rock =	263
1½" - 0	263

TOTAL ROCK COSTS = \$8,444.93

EROSION CONTROL

Grass seed & fertilizer	0.14	ac @	\$425.00	per ac =	\$59.50
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TOTAL EROSION CONTROL COSTS = \$59.50

TOTAL PROJECT COST = \$10,304.85

SUMMARY OF CONSTRUCTION COST

Timber Sale: Valley View
Road Segment: G to H

Sale Number: FG-341-2022-W00868-01
Improvement: 31+60 stations
0.60 miles

PROJECT NO. 2: ROAD IMPROVEMENT

IMPROVEMENT

Clearing & grubbing (scatter)	0.37	ac @	\$1,078.00	per acre =	\$398.86
Clean ditch & scatter waste material	31.60	sta @	\$60.00	per sta =	\$1,896.00
Clean culvert inlet & outlet, scatter waste	5	ea @	\$25.00	per ea =	\$125.00
Improve Turnouts	4	ea @	\$33.00	per ea =	\$132.00
Improve Turnaround	1	ea @	\$41.25	per ea =	\$41.25
Construct Roadside Landing	1	ea @	\$165.00	per ea =	\$165.00
Grade, ditch, & roll	31.60	sta @	\$36.00	per sta =	\$1,137.60

TOTAL IMPROVEMENT COSTS = \$3,895.71

CULVERTS

Culverts and Bands					
24" Diameter	120	LF @	\$29.00	per lf =	\$3,480.00
Markers & Stakes					
Culvert Markers	10	ea @	\$10.00	per ea =	\$100.00
Additional Installation Cost					
Repair culvert inlet	1	hrs @	\$175.00	per hr =	\$175.00

TOTAL CULVERT COSTS = \$3,755.00

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Subgrade rock						
Bedding and backfill	1½" - 0	\$12.00	\$18.89	\$0.50	72	\$2,260.08
				Subtotal =	72	\$2,260.08
Surfacing rock						
Surfacing rock	1½" - 0	\$12.00	\$18.89	\$1.22	474	\$15,220.14
Junction	1½" - 0	\$12.00	\$18.89	\$1.22	12	\$385.32
Turnout	1½" - 0	\$12.00	\$18.89	\$1.22	28	\$899.08
Roadside landing	1½" - 0	\$12.00	\$18.89	\$1.22	25	\$802.75
				Subtotal =	539	\$17,307.29

Totals	All Rock =	611
	1½" - 0	611

TOTAL ROCK COSTS = \$19,567.37

EROSION CONTROL

Grass seed & fertilizer	0.37	ac @	\$425.00	per ac =	\$157.25
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TOTAL EROSION CONTROL COSTS = \$157.25

TOTAL PROJECT COST = \$27,375.33

SUMMARY OF CONSTRUCTION COST

Timber Sale: Valley View
Road Segment: I to J

Sale Number: FG-341-2022-W00868-01
Improvement: 7+70 stations
0.15 miles

PROJECT NO. 2: ROAD IMPROVEMENT

IMPROVEMENT

Clearing & grubbing (scatter)	0.09	ac @	\$1,078.00	per acre =	\$97.02
Clean ditch & scatter waste material	7.70	sta @	\$60.00	per sta =	\$462.00
Improve Turnouts	1	ea @	\$33.00	per ea =	\$33.00
Improve Landing	1	ea @	\$157.00	per ea =	\$157.00
Grade, ditch, & roll	7.70	sta @	\$36.00	per sta =	\$277.20

TOTAL IMPROVEMENT COSTS = \$1,026.22

CULVERTS

Culverts and Bands					
18" Diameter	30	LF @	\$20.00	per lf =	\$600.00
Markers & Stakes					
Culvert Markers	1	ea @	\$10.00	per ea =	\$10.00

TOTAL CULVERT COSTS = \$610.00

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Subgrade rock						
Bedding and backfill	1½" - 0	\$12.00	\$18.89	\$0.50	24	\$753.36
Subtotal =					24	\$753.36
Surfacing rock						
Surfacing rock	1½" - 0	\$12.00	\$18.89	\$1.22	116	\$3,724.76
Junction	1½" - 0	\$12.00	\$18.89	\$1.22	12	\$385.32
Turnout	1½" - 0	\$12.00	\$18.89	\$1.22	7	\$224.77
Landing	1½" - 0	\$12.00	\$18.89	\$1.22	45	\$1,444.95
Subtotal =					180	\$5,779.80

Totals

All Rock =	204
1½" - 0	204

TOTAL ROCK COSTS = \$6,533.16

EROSION CONTROL

Grass seed & fertilizer	0.09	ac @	\$425.00	per ac =	\$38.25
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TOTAL EROSION CONTROL COSTS = \$38.25

TOTAL PROJECT COST = \$8,207.63

SUMMARY OF CONSTRUCTION COST

Timber Sale: Valley View
 Road Segment: K to L

Sale Number: FG-341-2022-W00868-01
 Improvement: 10+60 stations
0.20 miles

PROJECT NO. 2: ROAD IMPROVEMENT

IMPROVEMENT

Clearing & grubbing (scatter)	0.13	ac @	\$1,078.00	per acre =	\$140.14
Clean ditch & scatter waste material	10.60	sta @	\$60.00	per sta =	\$636.00
Improve Turnouts	1	ea @	\$33.00	per ea =	\$33.00
Construct Roadside Landing	1	ea @	\$165.00	per ea =	\$165.00
Grade, ditch, & roll	10.60	sta @	\$36.00	per sta =	\$381.60

TOTAL IMPROVEMENT COSTS = \$1,355.74

EROSION CONTROL

Grass seed & fertilizer	0.13	ac @	\$425.00	per ac =	\$55.25
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TOTAL EROSION CONTROL COSTS = \$55.25

TOTAL PROJECT COST = \$1,410.99

SUMMARY OF CONSTRUCTION COST

Timber Sale: Valley View
 Road Segment: Point M

Sale Number: FG-341-2022-W00868-01
 Improvement: + 0.00 stations
 miles

PROJECT NO. 2: ROAD IMPROVEMENT

CULVERTS

Culverts and Bands
 18" Diameter 30 LF @ \$20.00 per lf = \$600.00
 Markers & Stakes
 Culvert Markers 1 ea @ \$10.00 per ea = \$10.00

TOTAL CULVERT COSTS = \$610.00

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Subgrade rock						
Bedding and backfill	1½" - 0	\$12.00	\$18.89	\$0.50	24	\$753.36
				Subtotal =	24	\$753.36

Totals

All Rock =	24
1½" - 0	24

TOTAL ROCK COSTS = \$753.36

EROSION CONTROL

Grass seed & fertilizer 0.10 ac @ \$425.00 per ac = \$42.50
 Straw Mulch Bale 4 ea @ \$10.00 per ea = \$40.00

TOTAL EROSION CONTROL COSTS = \$82.50

TOTAL PROJECT COST = \$1,643.86

SUMMARY OF CONSTRUCTION COST

Timber Sale: Valley View
 Road Segment: All roads

Sale Number: FG-341-2022-W00868-01
 Improvement: 91+14 stations
1.73 miles

PROJECT NO. 3: ROAD BRUSHING

IMPROVEMENT

Roadside brushing	1.73	mi @	\$1,056.93	per mi =	\$1,824.41
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TOTAL PROJECT COST = \$1,824.41

SUMMARY OF CONSTRUCTION COST

Timber Sale: Valley View

Sale Number: FG-341-2022-W00868-01

PROJECT No. 1, 2 & 3 MOVE-IN, WITHIN AREA MOVE, & CLEANING COSTS

<u>Equipment</u>	<u>Total</u>
Brush Cutter	\$583.52
Grader	\$863.03
Roller (smooth/grid) & Compactor	\$583.52
Excavator (Large) - Equipment Cleaning	\$1,863.03
Dozer (Large) - Equipment Cleaning	\$1,907.61
Dump Truck (10cy +)	\$826.16
<u>TOTAL MOVE-IN COSTS =</u>	<u>\$6,626.87</u>

PROJECT No. 4 MOVE-IN, WITHIN AREA MOVE, & CLEANING COSTS

<u>Equipment</u>	<u>Total</u>
Excavator (Large) - Equipment Cleaning	\$1,863.03
<u>TOTAL MOVE-IN COSTS =</u>	<u>\$1,863.03</u>

CRUISE REPORT
Valley View
#FG-341-2022-W00868-01

1. LOCATION: Portions of Sections 26 and 27, T1N, R5W, W.M., Washington County, Oregon.

2. CRUISE DESIGN:

Pre-cruise evaluation indicated that the stand's average DBH is approximately 20 inches and the coefficient of variation is about 50%. For sales of this size and approximate value, ODF cruise standards require a sampling error of 9% at a 68% confidence level, and a minimum sample size of 100 graded trees. The cruise design chosen for this sale is a variable radius sample plot using a 40 BAF prism.

3. SAMPLING METHOD:

The Timber Sale Area was sampled in December 2021 with 30 variable radius grade plots using a 40 BAF prism. Plots were laid out on a 5 chain x 6 chain grid. Plots falling on or near existing roads or no-harvest areas were offset 1 chain.

4. CRUISE RESULTS:

136 trees were measured and graded producing a cumulative Sampling Error of 7.1% on the Douglas-fir basal area and 7.4% for the Douglas-fir net board foot volume.

5. TREE MEASUREMENT AND GRADING:

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

- a) **Height Standards:** Total tree heights were measured to the nearest foot. Bole heights were calculated to a top DIB of six inches (or 25% of DBH, whichever is larger) for conifers.
- 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 Super Ace 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.

7. CRUISERS: The sale was cruised by ODF cruisers Shamus Smith and Mark Savage.

Prepared by: Mark Savage 12/20/2021
Date

Reviewed by: Mark Savage 12/20/2021
Date

TC PSTATS				PROJECT STATISTICS				PAGE	1		
				PROJECT	VALVWFN			DATE	12/7/2021		
TWP	RGE	SC	TRACT	TYPE	ACRES		PLOTS	TREES	CuFt	BdFt	
01N	05	26	00U1	00MC	97.00		30	162	S	W	
					TREES	ESTIMATED		PERCENT			
				PLOTS	TREES	PER PLOT	TREES	TREES			
TOTAL			30	162	5.4						
CRUISE			30	162	5.4		8,847	1.8			
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			139	75.8	21.2	128	40.3	185.3	37,529	37,325	8,358
DF-SNAG			16	10.1	19.7	41	4.8	21.3			
GR FIR			4	2.1	21.5	141	1.2	5.3	1,278	1,278	275
WHEMLOCK			2	2.3	14.6	86	0.7	2.7	333	333	84
WR CEDAR			1	1.0	16.0	103	0.3	1.3	191	191	49
TOTAL			162	91.2	20.8	117	47.3	216.0	39,332	39,128	8,766
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			74.0	6.3	661	705	749				
DF-SNAG											
GR FIR			73.6	42.0	438	755	1,072				
WHEMLOCK			64.3	60.2	66	165	264				
WR CEDAR											
TOTAL			85.6	6.7	585	627	669	292	73	32	
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			66.1	5.6	145	153	162				
DF-SNAG											
GR FIR			64.6	36.9	100	158	216				
WHEMLOCK			66.9	62.7	16	42	68				
WR CEDAR											
TOTAL			77.9	6.1	128	136	145	242	61	27	
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			61.9	11.5	67	76	84				
DF-SNAG			340.3	63.2	4	10	16				
GR FIR			275.8	51.2	1	2	3				
WHEMLOCK			394.3	73.2	1	2	4				
WR CEDAR			547.7	101.7		1	2				
TOTAL			62.8	11.7	81	91	102	163	41	18	
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			38.2	7.1	172	185	198				
DF-SNAG			218.7	40.6	13	21	30				
GR FIR			259.3	48.1	3	5	8				
WHEMLOCK			380.6	70.6	1	3	5				
WR CEDAR			547.7	101.7		1	3				
TOTAL			33.6	6.2	203	216	229	47	12	5	

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
01N	05	26	00U1	00MC	97.00	30	162	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		39.6	7.4	34,580	37,325	40,071			
DF-SNAG									
GR FIR		263.3	48.9	653	1,278	1,903			
WHEMLOCK		390.2	72.4	92	333	575			
WR CEDAR		547.7	101.7		191	385			
TOTAL		36.8	6.8	36,455	39,128	41,801	56	14	6

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		38.2	7.1	7,766	8,358	8,950			
DF-SNAG									
GR FIR		260.6	48.4	142	275	408			
WHEMLOCK		392.3	72.8	23	84	146			
WR CEDAR		547.7	101.7		49	99			
TOTAL		34.8	6.5	8,200	8,766	9,332	50	13	6

TC		PSPCSTGR		Species, Sort Grade - Board Foot Volumes (Project)																	
<div>T01N R05W S26 Ty00MC97.00</div>				Project: VALVWFN												Page 1					
				Acres 97.00												Date 12/7/2021					
																Time 1:09:22PM					
Spp	S Sort Grade	%	Net BdFt	Bd. Ft. per Acre			Total Net MBF	Percent of Net Board Foot Volume								Average Log				Logs Per /Acre	
								Log Scale Dia.				Log Length				Ln Ft	Dia In	Bd Ft	CF/ Lf		
								4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99						
DF	CU																6	12		0.00	5.2
DF	2M	72		.7	27,194	26,990	2,618			58	42	0	0	1	99		40	15	367	1.96	73.6
DF	3M	25			9,311	9,311	903		98	1	1			1	6	93	39	8	106	0.69	87.5
DF	4M	3			1,025	1,025	99		100			43	57				20	6	24	0.34	42.1
DF Totals		95		.5	37,529	37,325	3,621		27	42	31	1	2	2	94		35	10	179	1.16	208.3
GF	2M	69			890	890	86			61	39				100		40	15	375	1.94	2.4
GF	3M	25			319	319	31		100						100		40	10	151	0.85	2.1
GF	4M	6			69	69	7		100			11	89				24	6	33	0.38	2.1
GF Totals		3			1,278	1,278	124		30	42	27	1	5		95		35	11	193	1.19	6.6
WH	CU																9	5		0.00	1.4
WH	3M	86			290	290	28		100			30			70		30	9	92	0.76	3.1
WH	4M	14			43	43	4		100				100				24	6	30	0.37	1.4
WH Totals		1			333	333	32		100			26	13		61		23	7	55	0.60	6.0
RC	3M	100			191	191	19		100					25	75		37	8	100	0.70	1.9
RC Totals		0			191	191	19		100					25	75		37	8	100	0.70	1.9
Totals				0.5	39,332	39,128	3,795		28	42	30	2	2	2	94		34	10	176	1.15	222.8

TC		PSTNDSUM		Stand Table Summary										Page		1			
														Date:		12/7/2021			
T01N R05W S26 Ty00MC				97.00		Project VALVWFN										Time:		1:09:23PM	
						Acres 97.00										Grown Year:			
S T	Sp	Sample		Tot		Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net 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		12	3	87	101	5.093	4.00	10.19	12.3	53.3	3.58	126	543	347	122	53			
DF		13	1	88	110	1.447	1.33	2.89	17.1	80.0	1.41	49	231	136	48	22			
DF		14	1	86	85	1.247	1.33	2.49	14.9	55.0	1.06	37	137	103	36	13			
DF		15	3	88	118	3.259	4.00	6.52	24.0	105.0	4.45	156	684	432	152	66			
DF		16	7	87	118	6.685	9.33	14.32	25.7	109.3	10.48	368	1,566	1,016	357	152			
DF		17	6	88	126	5.075	8.00	13.53	24.8	106.2	9.56	336	1,438	928	326	139			
DF		18	12	87	123	9.054	16.00	23.39	28.1	114.8	18.71	657	2,686	1,815	637	261			
DF		19	7	86	127	4.740	9.33	13.54	29.9	122.5	11.55	405	1,659	1,120	393	161			
DF		20	12	87	129	7.334	16.00	22.00	31.8	136.1	19.94	700	2,995	1,934	679	290			
DF		21	8	86	133	4.435	10.67	13.30	36.6	162.9	13.87	487	2,167	1,345	472	210			
DF		22	10	87	134	5.051	13.33	14.65	41.8	188.6	17.46	613	2,763	1,694	594	268			
DF		23	10	86	137	4.621	13.33	12.94	48.4	213.2	17.86	627	2,759	1,733	608	268			
DF		24	10	86	135	4.244	13.33	12.73	48.6	212.3	17.64	619	2,704	1,711	600	262			
DF		25	5	86	140	1.956	6.67	5.87	54.2	238.0	9.06	318	1,396	879	308	135			
DF		26	4	86	140	1.447	5.33	4.34	59.5	265.0	7.36	258	1,150	714	250	112			
DF		27	4	86	145	1.341	5.33	4.02	65.8	304.2	7.55	265	1,224	732	257	119			
DF		28	8	85	144	2.495	10.67	7.48	66.8	310.4	14.24	500	2,323	1,381	485	225			
DF		29	5	85	148	1.453	6.67	4.36	74.4	357.3	9.25	325	1,558	897	315	151			
DF		30	2	85	153	.543	2.67	1.63	85.7	416.7	3.98	140	679	386	136	66			
DF		31	3	85	149	.763	4.00	2.29	86.1	397.8	5.62	197	911	545	191	88			
DF		32	3	85	134	.716	4.00	2.15	86.4	391.1	5.29	186	840	513	180	82			
DF		33	3	85	141	.673	4.00	2.02	96.2	458.9	5.54	194	927	537	189	90			
DF		34	3	85	149	.634	4.00	2.11	95.6	464.0	5.76	202	981	559	196	95			
DF		36	3	85	145	.566	4.00	1.70	116.5	575.6	5.64	198	977	547	192	95			
DF		37	1	85	158	.179	1.33	.54	132.4	710.0	2.02	71	380	196	69	37			
DF		38	1	86	139	.169	1.33	.51	127.6	646.7	1.85	65	328	179	63	32			
DF		41	1	84	135	.145	1.33	.44	139.0	690.0	1.73	61	301	168	59	29			
DF		42	1	86	155	.139	1.33	.42	165.7	803.3	1.96	69	334	190	67	32			
DF		44	1	83	140	.126	1.33	.38	168.2	846.7	1.82	64	321	176	62	31			
DF		45	1	85	150	.121	1.33	.36	190.6	996.7	1.97	69	361	191	67	35			
DF		Totals	139	87	128	75.752	185.33	203.12	41.1	183.8	238.20	8,358	37,325	23,105	8,107	3,621			
GF		18	1	87	138	.755	1.33	2.26	29.4	130.0	1.46	66	294	142	64	29			
GF		21	2	87	137	1.109	2.67	3.33	39.0	175.0	2.85	130	582	277	126	56			
GF		31	1	85	170	.254	1.33	1.02	77.3	395.0	1.73	79	402	168	76	39			
GF		Totals	4	87	141	2.118	5.33	6.61	41.6	193.5	6.05	275	1,278	586	267	124			
WH		13	1	84	70	1.447	1.33	2.89	11.1	45.0	1.02	32	130	99	31	13			
WH		17	1	86	113	.846	1.33	1.69	30.9	120.0	1.67	52	203	162	51	20			
WH		Totals	2	85	86	2.292	2.67	4.58	18.4	72.7	2.70	84	333	262	82	32			
RC		16	1	85	103	.955	1.33	1.91	25.7	100.0	1.15	49	191	112	48	19			
RC		Totals	1	85	103	.955	1.33	1.91	25.7	100.0	1.15	49	191	112	48	19			
DFS		10	1	57	25	2.445	1.33												
DFS		12	1	85	60	1.698	1.33												
DFS		15	2	94	59	2.173	2.67												
DFS		18	1	57	25	.755	1.33												
DFS		19	2	92	41	1.354	2.67												
DFS		24	1	36	20	.424	1.33												
DFS		30	2	72	35	.543	2.67												
DFS		40	3	68	25	.458	4.00												
DFS		48	1	36	20	.106	1.33												
DFS		60	2	36	20	.136	2.67												

TC		PSTNDSUM										Stand Table Summary						Page		2	
																		Date:		12/7/2021	
		T01N R05W S26 Ty00MC				97.00		Project		VALVWFN						Time:		1:09:23PM			
								Acres		97.00						Grown Year:					
S	Spec	Sample			Tot	Trees/			Average Log		Net		Net		Totals						
		DBH	Trees	FF	Av	Trees/	BA/	Logs	Net	Net	Tons/	Cu.Ft.	Bd.Ft.	Tons	Cunits	MBF					
				16'	Ht	Acre	Acre	Acre	Cu.Ft.	Bd.Ft.	Acre	Acre	Acre								
DFS		Totals	16	74	41	10.092	21.33														
Totals			162	85	117	91.209	216.00	216.22	40.5	181.0	248.09	8,766	39,128	24,065	8,503	3,795					

[illegible]

TC		PLOGSTVB		Log Stock Table - MBF															
<div>T01N R05W S26 Ty00MC97.00</div>						Project:		VALVWFN								Page		2	
						Acres		97.00								Date		12/7/2021	
																Time		1:09:21PM	
Spp	S T	So Gr rt de	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	30-39	40+
RC		3M	34	5		5	25.0			5									
RC		3M	40	14		14	75.0					14							
RC		Totals		19		19	.5			5		14							
Total		All Species		3,815		3,795	100.0			309	291	475	623	625	842	416	172	41	

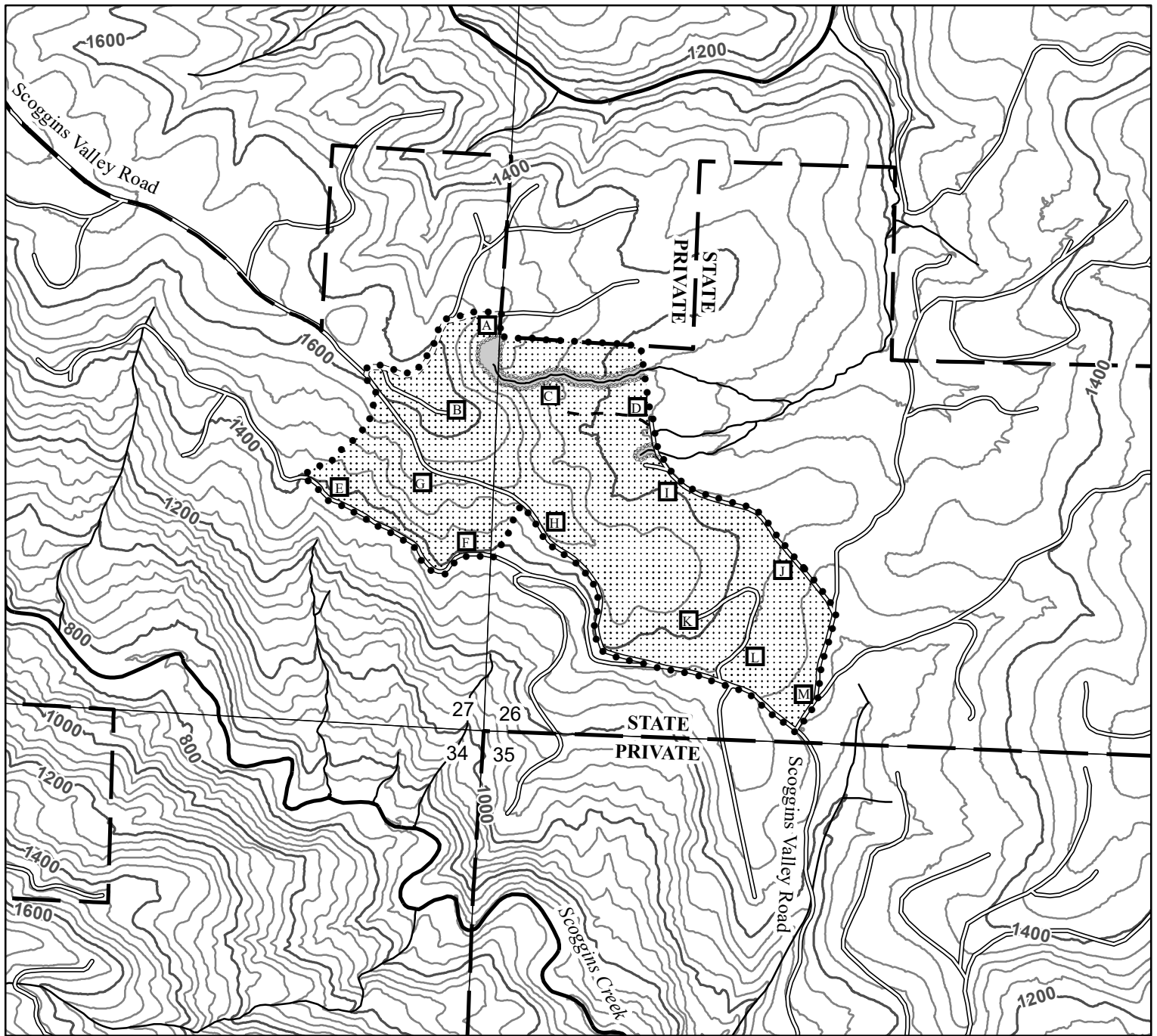
Volume Summary
 (Shown in MBF)
Valley View
#FG-341-2022-W00868-01
December 2021

UNIT 1: MC (97 ACRES)

SPECIES		2 SAW	3 SAW	4 SAW	TOTAL
Douglas-fir	Cruise Volume	2,618	903	99	3,620
	Hidden D&B (2%)	(52)	(18)	(2)	(72)
	NET TOTAL	2,566	885	97	3,548
	% of Total	72	25	3	
Grand fir	Cruise Volume	86	31	7	124
	Hidden D&B (2%)	(2)	(1)	(0)	(3)
	NET TOTAL	84	30	7	121
	% of Total	69	25	6	

SALE TOTAL

SPECIES	2 SAW	3 SAW	4 SAW	TOTAL
Douglas-fir	2,566	885	97	3,548
Grand Fir	84	30	7	121
Total	2,650	915	104	3,669



LEGEND

- Timber Sale Boundary
- Stream Buffer Boundary
- [] ODF Ownership Boundary
- Surfaced Roads
- - - - - Unsurfaced Roads
- - - - - New Road Construction
- Type-F Stream
- Type-N Stream
- ▒ Stream Buffer
- ▒ Tractor Yarding Area
- Tractor Landing
- Section Lines
- 40 Foot Contour Band
- 200 Foot Contour Band

LOGGING PLAN

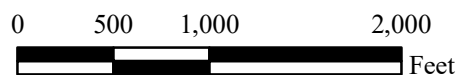
FOR TIMBER SALE CONTRACT #FG-341-2022-W00868-01
 VALLEY VIEW
 PORTIONS OF SECTIONS 26 & 27, T1N, R5W, W.M.,
 WASHINGTON COUNTY, OREGON

Forest Grove District GIS
 December, 2021

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

1:12,000

1 inch = 1,000 feet



APPROXIMATE NET ACRES

	TRACTOR	CABLE
UNIT 1	97	0
TOTAL	97	0