



STEWARDSHIP IN FORESTRY

Timber Sale Appraisal
Trifecta
Sale FG-341-2024-W01023-01

District: Forest Grove

Date: January 29, 2024

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$1,868,045.20	\$14,080.96	\$1,882,126.16
		Project Work:	(\$281,212.00)
		Advertised Value:	\$1,600,914.16



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Date: January 29, 2024

Timber Description

Location:

Stand Stocking: 20%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	20	0	98
Alder (Red)	15	0	95
Maple	15	0	95

Volume by Grade	2S	3S & 4S 6"-11"	Camprun	Total
Douglas - Fir	3,372	1,192	0	4,564
Alder (Red)	0	0	152	152
Maple	0	0	112	112
Total	3,372	1,192	264	4,828

Comments: LOCAL POND VALUES, DECEMBER 2023

WESTERN HEMLOCK AND OTHER HEMLOCKS:
STUMPAGE PRICE = POND VALUE - DOUG-FIR LOGGING COST
 $\$197.28 = \$531.00 - \$333.72$

WESTERN REDCEDAR AND OTHER CEDARS:
STUMPAGE PRICE = POND VALUE - DOUG-FIR LOGGING COST
 $\$927.28 = \$1,261.00 - \$333.72$

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):

INTERMEDIATE SUPPORTS: 6 @ \$500/SUPPORT = \$3,000

TOTAL OTHER COSTS (PROFIT & RISK) = \$3,000

OTHER COSTS (NO PROFIT & RISK ADDED):

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

MACHINE TIME TO BLOCK/WATERBAR ROADS AND SKID TRAILS:
30 HOURS X \$150/HOUR = \$4,500

MACHINE FIRE TRAILING: 6 STATIONS @ \$175/STATION = \$1,050

STIMSON ROAD MAINTENANCE & ROCKWEAR FEE: \$102,573.15

TOTAL OTHER COSTS (NO P&R) = \$111,123.15

SLASH TREATMENT: 2 ACRES x \$250/ACRE = \$500

ROAD MAINTENANCE (INCLUDES SPOT ROCKING, GRADING, & ROLLING):
MOVE IN: \$6,027.35

GENERAL ROAD MAINT: 23.10 miles X \$2,241.14 = \$51,770.33

TOTAL ROAD MAINTENANCE: \$57,797.68 / 4,828 MBF = \$11.97/MBF



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Logging Conditions

Combination#: 1

Douglas - Fir	100.00%
Alder (Red)	100.00%
Maple	100.00%

Logging System: Cable: Large Tower >=70 **Process:** Harvester Head Delimbing
yarding distance: Long (1,500 ft) **downhill yarding:** No
tree size: Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF
loads / day: 17 **bd. ft / load:** 4600
cost / mbf: \$109.71
machines: Log Loader (A)
Forwarder
Harvester
Tower Yarder (Large)

Combination#: 2

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: 22 **bd. ft / load:** 4600
cost / mbf: \$98.81
machines: Forwarder
Harvester



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Logging Costs

Operating Seasons: 2.00	Profit Risk: 20%
Project Costs: \$281,212.00	Other Costs (P/R): \$3,000.00
Slash Disposal: \$500.00	Other Costs: \$111,123.15

Miles of Road

Road Maintenance: \$11.97

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	3.0
Maple	\$0.00	4.0	3.0



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
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District: Forest Grove

Date: January 29, 2024

Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
Douglas - Fir									
\$109.71	\$12.21	\$1.82	\$132.81	\$0.62	\$51.43	\$0.10	\$2.00	\$23.02	\$333.72
Alder (Red)									
\$109.71	\$12.57	\$1.82	\$218.75	\$0.62	\$68.69	\$0.10	\$2.00	\$23.02	\$437.28
Maple									
\$109.71	\$12.57	\$1.82	\$109.38	\$0.62	\$46.82	\$0.10	\$2.00	\$23.02	\$306.04

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$743.02	\$409.30	\$0.00
Alder (Red)	\$0.00	\$499.00	\$61.72	\$0.00
Maple	\$0.00	\$348.00	\$41.96	\$0.00



Timber Sale Appraisal
Trifecta
Sale FG-341-2024-W01023-01

District: Forest Grove

Date: January 29, 2024

Summary

Amortized

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

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	4,564	\$409.30	\$1,868,045.20
Alder (Red)	152	\$61.72	\$9,381.44
Maple	112	\$41.96	\$4,699.52

Gross Timber Sale Value

Recovery: \$1,882,126.16

Prepared By: Adrian Torres

Phone: 503-357-2191

TIMBER SALE SUMMARY
Trifecta
#FG-341-2024-W01023-01

1. **Location:** Portions of Sections 27, 28, and 34, T1N, R5W, W.M., Washington County, Oregon.
2. **Type of Sale:** This timber sale is 95 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 ArcGIS Pro software.
5. **Cruise:** The timber sale was cruised by ODF Cruisers in September of 2023. For more information, see Cruise Report.
6. **Timber Description:** The Timber Sale Area consists of a well-stocked, 78-year-old stand of Douglas-fir with minor components of red alder and bigleaf maple. These timber stands have an average of 238 ft² of basal area, an average Douglas-fir DBH of 20 inches. The estimated average net Douglas-fir volume is approximately 48.2 MBF per acre.
7. **Topography and Logging Method:** Slopes within the Timber Sale Area range from 5% to 80%, with a mainly eastern aspect in Unit 1 and northern aspect in Unit 2 and Unit 3. Unit 1 is 4% ground-based Yarding and 96% cable-based Yarding. Unit 2 is 100% cable-based Yarding. Unit 3 is 4% ground-based Yarding and 96% cable-based Yarding. The average corridor length is approximately 840 feet and the maximum is approximately 2360 feet. The average horizontal skid trail length is approximately 50 feet and the maximum is approximately 150 feet.
8. **Access:** All access to the Timber Sale Area is on surfaced roads. From Forest Grove travel south on Highway 47 to its intersection with SW Scoggins Valley Road. Proceed west onto SW Scoggins Valley Road for approximately 1.6 miles to Lee County Road. Turn left and continue 0.4 miles to the Stimson Mainline. Turn right and continue approximately 7.5 miles to Sain Creek Spur. Turn right and continue for 4.7 miles to Baseline Road. Turn right and continue for 0.1 miles to an unnamed spur road. Turn left and continue for 1.4 miles to Unit 2. Continue on the unnamed spur road for 0.6 miles to Unit 3. From the Baseline Road and Sain Creek Spur junction continue west on Baseline Road for 0.7 miles to STIMML8.93A4 spur road. Continue on STIMML8.93A4 spur road for 1.6 miles to unnamed spur road. Turn right and continue for 0.2 miles to Unit 1. There are gates 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	\$94,143.26
Project No. 2: Road Improvement	\$187,068.74
Total Credit for all Projects	\$281,212.00

PROJECT COST SUMMARY SHEET

Timber Sale: Trifecta
Sale Number: FG-341-2024-W01023-01

PROJECT NO. 1: ROCKED ROAD CONSTRUCTION

	Road Segment	Length	Cost
	B to C	21+50	\$57,841.62
	E to F	12+00	\$33,135.90
		21+50 stations	
		0.41 miles	
Total Rock =	2,999 cy	3" - 0	
		Move-in =	\$3,165.74
TOTAL PROJECT COST =			\$94,143.26

PROJECT NO. 2: ROAD IMPROVEMENT, SURFACE ROCK REPLACEMENT AND MAINTENANCE

	Road Segment	Length	Cost
	A to B	87+50	\$111,415.61
	D to E	95+50	\$69,362.61
		183+00 stations	
		3.47 miles	
Total Rock =	6,851 cy	1½" - 0	
		Move-in =	\$6,290.52
TOTAL PROJECT COST =			\$187,068.74

TOTAL CREDITS = \$281,212.00

SUMMARY OF CONSTRUCTION COST

Timber Sale: Trifecta
Road Segment: A to B

Sale Number: FG-341-2024-W01023-01
Improvement: 87+50 stations
1.66 miles

PROJECT NO. 2: ROAD IMPROVEMENT, SURFACE ROCK REPLACEMENT AND MAINTENANCE**IMPROVEMENT**

Clearing & grubbing (scatter)	1.01	ac @	\$1,186.00	per acre =	\$1,197.86
Clearing & grubbing (end-haul)	2.88	ac @	\$2,655.00	per acre =	\$7,646.40
Clean culvert inlet & outlet, scatter waste	3	ea @	\$27.50	per ea =	\$82.50
Cutslope layback #1 (15+75 to 17+25)					
Excavate & load	278	cy @	\$1.94	per cy =	\$539.32
Haul	362	cy @	\$1.46	per cy =	\$528.52
Shape and compact waste material	362	cy @	\$0.35	per cy =	\$126.70
Cutslope layback #2 (39+20 to 50+00)					
Excavate & load	2,760	cy @	\$1.94	per cy =	\$5,354.40
Haul	3,588	cy @	\$1.46	per cy =	\$5,238.48
Shape and compact waste material	3,588	cy @	\$0.35	per cy =	\$1,255.80
Cutslope layback #3 (54+20 to 55+35)					
Excavate & load	304	cy @	\$1.94	per cy =	\$589.76
Haul	396	cy @	\$1.46	per cy =	\$578.16
Shape and compact waste material	396	cy @	\$0.35	per cy =	\$138.60
Cutslope layback #4 (57+40 to 60+90)					
Excavate & load	800	cy @	\$1.94	per cy =	\$1,552.00
Haul	1,040	cy @	\$1.46	per cy =	\$1,518.40
Shape and compact waste material	1,040	cy @	\$0.35	per cy =	\$364.00
Cutslope layback #5 (61+30 to 65+35)					
Excavate & load	945	cy @	\$1.94	per cy =	\$1,833.30
Haul	1,229	cy @	\$1.46	per cy =	\$1,794.34
Shape and compact waste material	1,229	cy @	\$0.35	per cy =	\$430.15
Cutslope layback for curve widening (72+50 to 75+00)					
Excavate & load	834	cy @	\$1.94	per cy =	\$1,617.96
Haul	1,085	cy @	\$1.46	per cy =	\$1,584.10
Shape and compact waste material	1,085	cy @	\$0.35	per cy =	\$379.75
Cutslope layback #6 (82+45 to 83+45)					
Excavate & load	260	cy @	\$1.94	per cy =	\$504.40
Haul	338	cy @	\$1.46	per cy =	\$493.48
Shape and compact waste material	338	cy @	\$0.35	per cy =	\$118.30
Cutslope layback #7 (84+05 to 87+45)					
Excavate & load	1,087	cy @	\$1.94	per cy =	\$2,108.78
Haul	1,414	cy @	\$1.46	per cy =	\$2,064.44
Shape and compact waste material	1,414	cy @	\$0.35	per cy =	\$494.90
Construct settling pond	12	ea @	\$27.50	per ea =	\$330.00
Improve turnout	10	ea @	\$36.30	per ea =	\$363.00
Construct turnaround	1	ea @	\$90.75	per ea =	\$90.75
Construct roadside landing	1	ea @	\$181.50	per ea =	\$181.50
Grade, ditch, & roll	87.50	sta @	\$39.65	per sta =	\$3,469.38

TOTAL IMPROVEMENT COSTS = \$44,569.43

CULVERTS

Culverts and Bands					
18" Diameter	190	lf @	\$22.05	per lf =	\$4,189.50
24" Diameter	50	lf @	\$31.90	per lf =	\$1,595.00
Markers & Stakes					
Culvert markers	5	ea @	\$12.00	per ea =	\$60.00

TOTAL CULVERT COSTS = \$5,844.50

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Subgrade rock						
Bedding and backfill	1½" - 0	\$1.20	\$14.75	\$0.55	144	\$2,376.00
				Subtotal =	144	\$2,376.00
Surfacing rock						
Surfacing rock	1½" - 0	\$1.20	\$14.75	\$1.35	2,800	\$48,440.00
Junction	1½" - 0	\$1.20	\$14.75	\$1.35	36	\$622.80
Turnout	1½" - 0	\$1.20	\$14.75	\$1.35	140	\$2,422.00
Turnaround	1½" - 0	\$1.20	\$14.75	\$1.35	10	\$173.00
Curve widening	1½" - 0	\$1.20	\$14.75	\$1.35	111	\$1,920.30
Roadside landing	3" - 0	\$1.20	\$14.75	\$1.35	200	\$3,460.00
				Subtotal =	3,297	\$57,038.10

Totals

All Rock =	3,441
1½" - 0	3,241
3" - 0	200

TOTAL ROCK COSTS = \$59,414.10

EROSION CONTROL

Grass seed & fertilizer	1.01	ac @	\$467.50	per ac =	\$472.18
Straw mulch bale	15	ea @	\$11.00	per ea =	\$165.00

TOTAL EROSION CONTROL COSTS = \$1,587.58

TOTAL PROJECT COST = \$111,415.61

SUMMARY OF CONSTRUCTION COST

Timber Sale: Trifecta
Road Segment: B to C

Sale Number: FG-341-2024-W01023-01
Construction: 21+50 stations
0.41 miles

PROJECT NO. 1: ROCKED ROAD CONSTRUCTION

CONSTRUCTION

Clearing & grubbing (scatter)	2.47	ac @	\$1,186.00 per ac =	\$2,929.42
Clearing & grubbing (end-haul)	2.85	ac @	\$2,141.00 per ac =	\$6,101.85
Balanced road construction	21.50	sta @	\$120.00 per sta =	\$2,580.00
Road widening end haul (6+90 to 9+70)				
Excavate & load	784	cy @	\$1.94 per cy =	\$1,520.96
Haul	1,020	cy @	\$1.46 per cy =	\$1,489.20
Shape and compact waste material	1,020	cy @	\$0.35 per cy =	\$357.00
Road widening end haul (11+00 to 15+50)				
Excavate & load	1,117	cy @	\$1.94 per cy =	\$2,166.98
Haul	1,453	cy @	\$1.46 per cy =	\$2,121.38
Shape and compact waste material	1,453	cy @	\$0.35 per cy =	\$508.55
Construct settling pond	3	ea @	\$27.50 per ea =	\$82.50
Turnout	4	ea @	\$72.60 per ea =	\$290.40
Turnaround	1	ea @	\$90.75 per ea =	\$90.75
Roadside landing	1	ea @	\$181.50 per ea =	\$181.50
Landing	1	ea @	\$345.40 per ea =	\$345.40
Grade, ditch, & roll	21.50	sta @	\$39.65 per sta =	\$852.47

TOTAL CONSTRUCTION COSTS = \$21,618.36

CULVERTS

Culverts and Bands				
18" Diameter	60	LF @	\$22.05 per lf =	\$1,323.00
24" Diameter	40	LF @	\$31.90 per lf =	\$1,276.00
Markers & Stakes				
Culvert markers	3	ea @	\$12.00 per ea =	\$36.00

TOTAL CULVERT COSTS = \$2,635.00

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Surfacing rock						
Surfacing rock	3" - 0	\$1.20	\$15.09	\$1.35	1,398	\$24,660.72
Turnout	3" - 0	\$1.20	\$15.09	\$1.35	116	\$2,046.24
Turnaround	3" - 0	\$1.20	\$15.09	\$1.35	20	\$352.80
Roadside landing	3" - 0	\$1.20	\$15.09	\$1.35	95	\$1,675.80
Landing	3" - 0	\$1.20	\$15.09	\$1.35	180	\$3,175.20
Subtotal =					1,809	\$31,910.76

Totals	All Rock =	1,809
	3" - 0	1,809

TOTAL ROCK COSTS = \$31,910.76

EROSION CONTROL

Grass seed & fertilizer	1.24	ac @	\$550.00 per ac =	\$682.00
Straw mulch (bale)	5	ea @	\$11.00 per ea =	\$55.00

TOTAL EROSION CONTROL COSTS = \$1,677.50

TOTAL PROJECT COST = \$57,841.62

SUMMARY OF CONSTRUCTION COST

Timber Sale: Trifecta
Road Segment: D to E

Sale Number: FG-341-2024-W01023-01
Improvement: 95+50 stations
1.81 miles

PROJECT NO. 2: ROAD IMPROVEMENT, SURFACE ROCK REPLACEMENT AND MAINTENANCE

IMPROVEMENT

Clearing & grubbing (scatter)	1.10	ac @	\$1,186.00	per acre =	\$1,304.60
Clean culvert inlet & outlet, scatter waste	5	ea @	\$27.50	per ea =	\$137.50
Construct settling pond	6	ea @	\$27.50	per ea =	\$165.00
Improve turnout	10	ea @	\$36.30	per ea =	\$363.00
Improve turnaround	1	ea @	\$45.38	per ea =	\$45.38
Improve landing	1	ea @	\$172.70	per ea =	\$172.70
Grade, ditch, & roll	95.50	sta @	\$39.65	per sta =	\$3,786.58

TOTAL IMPROVEMENT COSTS = \$5,974.76

CULVERTS

Culverts and Bands					
18" Diameter	80	lf @	\$22.05	per lf =	\$1,764.00
24" Diameter	50	lf @	\$31.90	per lf =	\$1,595.00
Markers & Stakes					
Culvert markers	5	ea @	\$12.00	per ea =	\$60.00

TOTAL CULVERT COSTS = \$3,419.00

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Subgrade rock						
Bedding and backfill	1½" - 0	\$1.20	\$14.87	\$0.55	72	\$1,196.64
Subtotal =					72	\$1,196.64
Surfacing rock						
Surfacing rock	1½" - 0	\$1.20	\$14.87	\$1.35	3,056	\$53,235.52
Junction	1½" - 0	\$1.20	\$14.87	\$1.35	132	\$2,299.44
Turnout	1½" - 0	\$1.20	\$14.87	\$1.35	140	\$2,438.80
Turnaround	1½" - 0	\$1.20	\$14.87	\$1.35	10	\$174.20
Subtotal =					3,338	\$58,147.96

Totals	All Rock =	3,410
	1½" - 0	3,410

TOTAL ROCK COSTS = \$59,344.60

EROSION CONTROL

Grass seed & fertilizer	1.10	ac @	\$467.50	per ac =	\$514.25
Straw mulch bale	10	ea @	\$11.00	per ea =	\$110.00

TOTAL EROSION CONTROL COSTS = \$624.25

TOTAL PROJECT COST = \$69,362.61

SUMMARY OF CONSTRUCTION COST

Timber Sale: Trifecta
Road Segment: E to F

Sale Number: FG-341-2024-W01023-01
Construction: 12+00 stations
0.23 miles

PROJECT NO. 1: ROCKED ROAD CONSTRUCTION

CONSTRUCTION

Clearing & grubbing (scatter)	0.73	ac @	\$1,186.00 per ac =	\$865.78
Clearing & grubbing (end-haul)	0.65	ac @	\$2,083.00 per ac =	\$1,353.95
Balanced road construction	12.00	sta @	\$120.00 per sta =	\$1,440.00
Full Bench Road Construction (3+20 to 5+50)				
Excavate & load	1,323	cy @	\$1.64 per cy =	\$2,169.72
Haul to Waste Area No. 1	1,720	cy @	\$2.57 per cy =	\$4,420.40
Shape and compact waste material	1,720	cy @	\$0.30 per cy =	\$516.00
Turnout	2	ea @	\$72.60 per ea =	\$145.20
Turnaround	1	ea @	\$90.75 per ea =	\$90.75
Roadside landing	2	ea @	\$181.50 per ea =	\$363.00
Landing	1	ea @	\$345.40 per ea =	\$345.40
Grade, ditch, & roll	12.00	sta @	\$39.65 per sta =	\$475.80

TOTAL CONSTRUCTION COSTS = \$12,186.00

CULVERTS

Culverts and Bands				
18" Diameter	30	lf @	\$22.05 per lf =	\$661.50
Markers & Stakes				
Culvert markers	1	ea @	\$12.00 per ea =	\$12.00

TOTAL CULVERT COSTS = \$673.50

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Surfacing rock						
Base rock	3" - 0	\$1.20	\$14.11	\$1.35	780	\$12,994.80
Turnaround	3" - 0	\$1.20	\$14.11	\$1.35	40	\$666.40
Roadside landing	3" - 0	\$1.20	\$14.11	\$1.35	190	\$3,165.40
Landing	3" - 0	\$1.20	\$14.11	\$1.35	180	\$2,998.80
Subtotal =					1,190	\$19,825.40

Totals

All Rock =	1,190
3" - 0	1,190

TOTAL ROCK COSTS = \$19,825.40

EROSION CONTROL

Grass seed & fertilizer	0.37	ac @	\$550.00 per ac =	\$203.50
Straw mulch (bale)	3	ea @	\$11.00 per ea =	\$33.00

TOTAL EROSION CONTROL COSTS = \$451.00

TOTAL PROJECT COST = \$33,135.90

SUMMARY OF CONSTRUCTION COST

Timber Sale: Trifecta

Sale Number: FG-341-2024-W01023-01

PROJECT NO. 1 AND 2 MOVE-IN, WITHIN AREA MOVE, & CLEANING COSTS

Equipment	Total
Grader	\$742.03
Loader (Med. & Large)	\$734.77
Roller (smooth/grid) & Compactor	\$709.77
Excavator (Large) - Equipment Cleaning	\$2,358.22
Dozer (Large) - Equipment Cleaning	\$2,358.22
Dump Truck (10cy +)	\$2,553.25
TOTAL MOVE-IN COSTS =	\$9,456.26

QUARRY DEVELOPMENT & CRUSHING COST SUMMARY

Timber Sale: Trifecta
Sale Number: FG-341-2024-W01023-01
Stockpile Name: Seven Cedars Stockpile site
1 1/2" - 0: 6,851 cy (truck measure)
3" -0: 2,999 cy (truck measure)
Total truck yardage: 9,850 cy

<u>Move-in</u>					
Move in excavator					\$1,519.17
Move in loader					\$1,301.08
Move in Dump Trucks					\$127.13
				Subtotal =	\$2,947.38
				Per CY =	\$0.30/cy
<u>(1 1/2"-0, 3"-0) Base Cost</u>					
Load dump truck	\$0.90	/ cy x	9,850	cy =	\$8,865.00
				Subtotal =	\$8,865.00
				Per CY =	\$0.90

1 1/2"-0 Cost = \$1.20/cy
3"-0 Cost = \$1.20/cy

CRUISE REPORT
Trifecta
#FG-341-2024-W01023-01

1. LOCATION:

Portions of Sections 27, 28, and 34, T1N, R5W, W.M., Washington County, Oregon.

2. CRUISE DESIGN:

The timber cruise was designed using an estimated coefficient of variation (CV) of 54%, average stand diameter of 20 inches, sampling error (SE) of 9% and a minimum of 100 grade trees.

3. SAMPLING METHOD:

The Timber Sale Area was cruised in September of 2023 with 39 variable radius grade plots using a 40 BAF prism. Unit 1 had 13 plots, Unit 2 had 19 plots, and Unit 3 had 8 Plots. Plots were laid out on a 4 chain x 4 chain grid for Unit 1, 2 and 3. Plots falling on or near existing roads or no-harvest areas were offset 1 chain.

4. CRUISE RESULTS:

233 trees were measured and graded producing a cumulative sampling error of 9.3% on the Douglas-fir Basal Area and 9.7% 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. Forty-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 Adrian Torres, Shamus Smith, Colton Turner and Mark Savage.

Prepared by: Adrian Torres 01-25-2024

Reviewed by: Mark Savage 01-25-2024
Date

TC PSTATS			PROJECT STATISTICS					PAGE	1	
			PROJECT		TRIRECT		DATE		9/18/2023	
TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt
TIN	R5	34	00U1	00MC		32.00	13	99	S	W
					TREES	ESTIMATED	PERCENT			
			PLOTS	TREES	PER PLOT	TOTAL	SAMPLE			
						TREES	TREES			
TOTAL			13	99	7.6					
CRUISE			13	99	7.6	4,606	2.1			
DBH COUNT										
REFOREST										
COUNT										
BLANKS										
100 %										
STAND SUMMARY										
			SAMPLE	TREES	AVG	BOLE	REL	BASAL	GROSS	NET
			TREES	/ACRE	DBH	LEN	DEN	AREA	BF/AC	CF/AC
DOUG FIR			89	120.1	20.4	129	60.6	273.8	68,091	13,685
DOUG FIR-S			5	4.3	25.6	85	3.0	15.4		
BL MAPLE			4	17.9	11.2	73	3.7	12.3	1,029	279
R ALDER			1	1.6	19.0	88	0.7	3.1	453	105
TOTAL			99	143.9	19.7	121	68.6	304.6	69,573	14,070
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			68.6	7.3	905	976	1,047			
DOUG FIR-S										
BL MAPLE			30.3	17.3	52	63	73			
R ALDER										
TOTAL			78.6	7.9	813	883	953	247	62	27
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			61.6	6.5	178	190	203			
DOUG FIR-S										
BL MAPLE			75.3	43.0	11	20	29			
R ALDER										
TOTAL			71.5	7.2	160	173	185	204	51	23
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			65.6	18.9	97	120	143			
DOUG FIR-S			360.6	103.9		4	9			
BL MAPLE			360.6	103.9		18	36			
R ALDER			360.6	103.9		2	3			
TOTAL			58.2	16.8	120	144	168	147	37	16
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			52.3	15.1	233	274	315			
DOUG FIR-S			360.6	103.9		15	31			
BL MAPLE			360.6	103.9		12	25			
R ALDER			360.6	103.9		3	6			
TOTAL			41.4	11.9	268	305	341	74	18	8
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			53.8	15.5	57,352	67,879	78,405			
DOUG FIR-S										
BL MAPLE			360.6	103.9		1,029	2,099			
R ALDER			360.6	103.9		453	924			

TC PSTATS				<u>PROJECT STATISTICS</u>					PAGE	2	
				PROJECT		TRIFECT			DATE	9/18/2023	
TWP	RGE	SC	TRACT	TYPE		ACRES		PLOTS	TREES	CuFt	BdFt
T1N	R5	34	00U1	00MC		32.00		13	99	S	W
CL	68.1	COEFF		NET BF/ACRE					# OF PLOTS REQ.		INF. POP.
SD:	1.00	VAR.		S.E.%	LOW	AVG	HIGH	5	10	15	
TOTAL			50.0	14.4	59,371	69,361	79,352	108	27	12	
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			54.2	15.6	11,545	13,685	15,825				
DOUG FIR-S											
BL MAPLE			360.6	103.9	279		570				
R ALDER			360.6	103.9	105		215				
TOTAL			49.4	14.2	12,065	14,070	16,075	106	26	12	

TC PSPCSTGR

Species, Sort Grade - Board Foot Volumes (Project)

TTIN RR5W S34 Ty00MC

32.00

Project: TRIFECT

Page 1

Acres 32.00

Date 9/18/2023

Time 11:54:09AM

Spp	So Gr T rt ad	% Net BdFt	Bd. Ft. per Acre			Total Net MBF	Percent of Net Board Foot Volume								Average Log				Logs Per /Acre		
			Def%	Gross	Net		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																30	13		0.00	10.2
DF	2M	77	.3	52,508	52,333	1,675			34	66						100	40	17	469	2.20	111.5
DF	3M	18	.3	12,801	12,764	408			100				1	1	99		40	8	109	0.69	116.7
DF	4M	5		2,782	2,782	89			100				21	36	23	20	25	6	35	0.34	80.1
DF Totals		98	.3	68,091	67,879	2,172			23	26	51		1	2	1	96	36	11	213	1.20	318.4
RA	CR	100		453	453	15			17	83			17			83	30	11	145	1.12	3.1
RA Totals		1		453	453	15			17	83			17			83	30	11	145	1.12	3.1
BM	CR	100		1,029	1,029	33			100					23	60	17	32	7	58	0.49	17.9
BM Totals		1		1,029	1,029	33			100					23	60	17	32	7	58	0.49	17.9
Totals			0.3	69,573	69,361	2,220			24	26	50		1	2	2	95	36	11	204	1.17	339.5

TC		PSTNDSUM								Stand Table Summary					Page		1	
															Date:		9/18/2023	
TT1N RR5W S34 Ty00MC					32.00					Project			TRIFECT		Time:		11:54:10AM	
										Acres			32.00		Grown Year:			
S SpC	T	Tot			Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals					
		DBH	Sample Trees	FF 16'				Av Ht	Net Cu.Ft.				Net Bd.Ft.	Tons	Cunits	MBF		
DF		9	2	86	74	13.929	6.15	13.93	8.5	40.0	3.36	118	557	107	38	18		
DF		11	2	88	109	9.325	6.15	18.65	10.4	47.5	5.52	194	886	177	62	28		
DF		12	3	88	99	11.753	9.23	19.59	14.4	60.0	8.03	282	1,175	257	90	38		
DF		14	2	88	122	5.757	6.15	11.51	21.1	95.0	6.91	242	1,094	221	78	35		
DF		15	3	88	123	7.522	9.23	17.55	20.8	94.3	10.41	365	1,655	333	117	53		
DF		16	2	88	131	4.407	6.15	11.02	23.8	108.0	7.46	262	1,190	239	84	38		
DF		17	2	86	115	3.904	6.15	7.81	30.4	122.5	6.76	237	957	216	76	31		
DF		18	4	88	133	6.965	12.31	19.15	28.8	122.7	15.70	551	2,351	502	176	75		
DF		19	1	88	136	1.563	3.08	4.69	29.6	130.0	3.95	139	609	126	44	20		
DF		20	2	86	139	2.821	6.15	8.46	33.8	145.0	8.15	286	1,227	261	92	39		
DF		21	5	89	144	6.396	15.38	19.19	39.4	188.7	21.54	756	3,620	689	242	116		
DF		22	5	87	116	5.828	15.38	13.99	40.5	188.3	16.15	567	2,634	517	181	84		
DF		23	4	89	144	4.266	12.31	12.80	48.6	225.0	17.72	622	2,879	567	199	92		
DF		24	5	88	155	4.897	15.38	15.67	51.8	246.2	23.12	811	3,859	740	260	123		
DF		25	7	87	133	6.318	21.54	13.54	57.9	267.3	22.33	784	3,620	715	251	116		
DF		26	4	89	163	3.338	12.31	12.52	54.5	278.0	19.43	682	3,480	622	218	111		
DF		27	6	89	162	4.643	18.46	16.25	63.3	335.2	29.33	1,029	5,448	939	329	174		
DF		28	9	89	162	6.476	27.69	21.59	66.6	356.3	40.98	1,438	7,692	1,311	460	246		
DF		29	5	87	164	3.354	15.38	12.07	70.3	364.4	24.20	849	4,400	774	272	141		
DF		30	4	87	153	2.507	12.31	6.90	74.5	386.4	14.65	514	2,664	469	164	85		
DF		31	4	87	170	2.348	12.31	8.81	78.5	410.7	19.69	691	3,616	630	221	116		
DF		32	5	86	167	2.755	15.38	9.92	86.2	451.1	24.36	855	4,473	779	273	143		
DF		33	1	88	173	.518	3.08	2.07	85.8	462.5	5.07	178	958	162	57	31		
DF		34	1	88	153	.488	3.08	1.46	108.0	553.3	4.51	158	810	144	51	26		
DF		35	1	87	166	.461	3.08	1.84	93.5	517.5	4.91	172	953	157	55	31		
DF		36	1	86	179	.435	3.08	1.74	106.2	587.5	5.27	185	1,023	169	59	33		
DF		37	1	87	190	.412	3.08	1.65	118.3	677.5	5.56	195	1,117	178	62	36		
DF		38	1	83	146	.391	3.08	1.17	130.1	653.3	4.34	152	766	139	49	25		
DF		40	1	86	178	.353	3.08	1.41	129.0	737.5	5.19	182	1,040	166	58	33		
DF		41	1	87	184	.336	3.08	1.34	142.4	837.5	5.45	191	1,124	174	61	36		
DF		Totals	94	88	128	124.465	289.23	308.28	44.4	220.2	390.02	13,685	67,879	12,481	4,379	2,172		
BM		10	2	90	68	11.283	6.15	11.28	11.3	55.0	3.39	128	621	109	41	20		
BM		11	1	74	88	4.662	3.08	4.66	14.7	50.0	1.82	69	233	58	22	7		
BM		17	1	74	67	1.952	3.08	1.95	42.3	90.0	2.19	83	176	70	26	6		
BM		Totals	4	84	73	17.897	12.31	17.90	15.6	57.5	7.40	279	1,029	237	89	33		
RA		19	1	92	88	1.563	3.08	3.13	33.7	145.0	2.90	105	453	93	34	15		
RA		Totals	1	92	88	1.563	3.08	3.13	33.7	145.0	2.90	105	453	93	34	15		
Totals			99	87	121	143.925	304.62	329.31	42.7	210.6	400.32	14,070	69,361	12,810	4,502	2,220		

TC		PLOGSTVB		Log Stock Table - MBF															
TT1N RR5W S34 Ty00MC				32.00		Project:		TRIFECT								Page		1	
						Acres		32.00								Date		9/18/2023	
																Time		11:54:08AM	
Spp	S T	So rt	Gr 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
DF		2M	40		1,680		1,675	77.1					181	228	584	534	130	18	
DF		3M	24		1		1	.0				1							
DF		3M	26		1		1	.0			1								
DF		3M	29		1		1	.0				1							
DF		3M	34		3		3	.1			2	1							
DF		3M	36		2		2	.1			2								
DF		3M	37		2		2	.1			2								
DF		3M	38		7		7	.3			6	1							
DF		3M	39		7		7	.3			7								
DF		3M	40		386		385	17.7			73	113	198						
DF		4M	12		1		1	.1			1								
DF		4M	13		1		1	.1			1								
DF		4M	14		3		3	.1			3								
DF		4M	15		1		1	.0			0	0							
DF		4M	16		2		2	.1			2								
DF		4M	17		5		5	.3			5	1							
DF		4M	18		3		3	.1			3								
DF		4M	19		1		1	.1			1								
DF		4M	20		2		2	.1			1	1							
DF		4M	22		6		6	.3			5	1							
DF		4M	23		2		2	.1			2								
DF		4M	24		5		5	.2			5								
DF		4M	26		4		4	.2			4								
DF		4M	27		5		5	.2			5								
DF		4M	28		8		8	.4			8								
DF		4M	30		3		3	.2			3								
DF		4M	31		3		3	.2			3								
DF		4M	34		13		13	.6			13								
DF		4M	35		4		4	.2			4								
DF		4M	40		17		17	.8			11	6							
DF		Totals			2,179		2,172	97.9			171	126	200	181	228	584	534	130	18
RA		CR	20		3		3	17.2			3								
RA		CR	40		12		12	82.8					12						
RA		Totals			15		15	.7			3		12						
BM		CR	28		7		7	22.6			7								
BM		CR	31		9		9	27.4			9								

Log Stock Table - MBF

TT1N RR5W S34 Ty00MC 32.00

Project: TRIFECT
Acres 32.00Page 2
Date 9/18/2023
Time 11:54:08AM

S Spp	T	So rt	Gr de	Log Len	Gross MBF	Def %	Net MBF	% Spe	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+
BM			CR	33	11		11	32.9			11									
BM			CR	40	6		6	17.1				6								
BM			Totals		33		33	1.5			27	6								
Total			All Species		2,226		2,220	100.0			199	134	200	193	228	584	534	130	18	

TC PSTATS		PROJECT STATISTICS							PAGE	1								
		PROJECT		TRIFECT			DATE		9/18/2023									
TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt								
T1N	R5	34	00U2	00MC		45.00	18	102	S	W								
TOTAL CRUISE DBH COUNT REFOREST COUNT BLANKS 100 %																		
											PLOTS		TREES	TREES PER PLOT		ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES	
											18		102	5.7				
											18		102	5.7		5,057	2.0	
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								
DOUG FIR		76	75.6	20.2	141	37.5	168.9	39,949	39,936	8,319								
DOUG FIR-S		9	13.6	16.4	53	4.9	20.0											
R ALDER		11	17.8	15.9	67	6.1	24.4	1,866	1,866	675								
BL MAPLE		6	5.3	21.4	75	2.9	13.3	1,438	1,438	431								
TOTAL		102	112.4	19.2	115	51.7	226.7	43,253	43,240	9,425								
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		78.8	9.0	681	749	816												
DOUG FIR-S																		
R ALDER		65.5	20.7	106	134	161												
BL MAPLE		59.1	26.3	227	308	390												
TOTAL		98.5	9.7	533	590	648	388	97	43									
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		67.7	7.8	139	151	163												
DOUG FIR-S																		
R ALDER		64.3	20.3	40	50	60												
BL MAPLE		34.1	15.2	76	90	103												
TOTAL		83.2	8.2	113	123	133	276	69	31									
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		71.5	17.3	63	76	89												
DOUG FIR-S		218.4	52.9	6	14	21												
R ALDER		184.2	44.6	10	18	26												
BL MAPLE		180.5	43.7	3	5	8												
TOTAL		34.2	8.3	103	112	122	49	12	5									
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		51.7	12.5	148	169	190												
DOUG FIR-S		184.7	44.8	11	20	29												
R ALDER		178.7	43.3	14	24	35												
BL MAPLE		178.2	43.2	8	13	19												
TOTAL		28.4	6.9	211	227	242	34	9	4									
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		50.5	12.2	35,048	39,936	44,825												
DOUG FIR-S																		
R ALDER		176.2	42.7	1,069	1,866	2,663												
BL MAPLE		177.4	43.0	820	1,438	2,055												

TC PSTATS				<u>PROJECT STATISTICS</u>				PAGE	2	
				PROJECT		TRIFECT		DATE	9/18/2023	
TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt
TIN	R5	34	00U2	00MC		45.00	18	102	S	W
CL	68.1		COEFF	NET BF/ACRE				# OF PLOTS REQ.		INF. POP.
SD:	1.00		VAR.	S.E.%	LOW	AVG	HIGH	5	10	15
TOTAL			42.2	10.2	38,815	43,240	47,665	75	19	8
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			51.0	12.4	7,291	8,319	9,346			
DOUG FIR-S										
R ALDER			181.9	44.1	378	675	973			
BL MAPLE			173.4	42.0	250	431	612			
TOTAL			39.1	9.5	8,531	9,425	10,319	65	16	7

TC		PSPCSTGR		Species, Sort Grade - Board Foot Volumes (Project)																	
<div>TT1N RR5W S34 Ty00MC45.00</div>				Project: TRIFECT										Page 1							
				Acres 45.00										Date 9/18/2023							
														Time 11:55:41AM							
Spp	S Sort Grade	% Net BdFt	Bd. Ft. per Acre			Total Net MBF	Percent of Net Board Foot Volume								Average Log				Logs Per /Acre		
			Def%	Gross	Net		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															26	8		0.00	20.5	
DF	2M	69		27,918	27,918	1,256			56	44					100	40	15	379	1.84	73.7	
DF	3M	26	.1	10,378	10,366	466		98	2				0	2	98	40	9	113	0.68	92.1	
DF	4M	5		1,652	1,652	74		100					16	29	48	27	6	37	0.35	44.1	
DF Totals		92	.0	39,949	39,936	1,797		30	40	31		1	1	3	96	36	10	173	1.00	230.4	
BM	CR	100		1,438	1,438	65		27	52	21				6	94	38	11	189	1.50	7.6	
BM Totals		3		1,438	1,438	65		27	52	21				6	94	38	11	189	1.50	7.6	
RA	CR	100		1,866	1,866	84		81	19				15		85	36	8	92	0.92	20.3	
RA Totals		4		1,866	1,866	84		81	19				15		85	36	8	92	0.92	20.3	
Totals			0.0	43,253	43,240	1,946		32	39	29		1	2	3	95	36	10	167	1.01	258.3	

TC		PSTNDSUM										Stand Table Summary										Page		1					
																						Date:		9/18/2023					
TT1N RR5W S34 Ty00MC					45.00					Project					TRIFECT					Time:					11:55:43AM				
										Acres					45.00					Grown Year:									
S Spec	T	Sample		Tot		Trees/		BA/		Logs		Average Log		Net		Net		Totals											
		DBH	Trees	FF 16'	Av Ht	Acre	Acre	Acre	Net Cu.Ft.	Net Bd.Ft.	Tons/ Acre	Cu.Ft. Acre	Bd.Ft. Acre	Tons	Cunits	MBF													
DF		10	1	36	20	4.074	2.22																						
DF		12	3	87	111	8.488	6.67	16.98	13.2	58.3	6.39	224	990					287	101	45									
DF		13	2	88	127	4.822	4.44	9.64	18.1	80.0	4.97	174	771					223	78	35									
DF		15	2	88	128	3.622	4.44	7.24	24.3	110.0	5.01	176	797					225	79	36									
DF		16	8	84	102	12.732	17.78	22.28	21.8	100.0	13.81	485	2,228					622	218	100									
DF		17	3	88	112	4.229	6.67	2.82	31.6	125.0	2.54	89	352					114	40	16									
DF		18	3	86	151	3.773	6.67	11.32	27.9	123.3	9.00	316	1,396					405	142	63									
DF		19	4	89	139	4.515	8.89	13.54	30.1	132.5	11.61	407	1,795					522	183	81									
DF		20	9	88	132	9.167	20.00	24.45	34.5	158.8	24.01	843	3,881					1,081	379	175									
DF		21	8	89	146	7.391	17.78	22.17	40.2	194.2	25.41	892	4,305					1,143	401	194									
DF		22	9	88	153	7.576	20.00	22.73	45.5	215.9	29.45	1,033	4,908					1,325	465	221									
DF		23	5	89	152	3.851	11.11	11.55	50.4	240.0	16.60	582	2,773					747	262	125									
DF		24	9	88	162	6.366	20.00	20.51	52.5	255.5	30.68	1,077	5,242					1,381	484	236									
DF		25	1	89	149	.652	2.22	1.96	58.1	276.7	3.24	114	541					146	51	24									
DF		26	2	88	155	1.205	4.44	3.62	64.9	311.7	6.69	235	1,127					301	106	51									
DF		27	1	90	165	.559	2.22	2.24	57.5	310.0	3.67	129	693					165	58	31									
DF		28	5	88	135	2.598	11.11	6.76	70.4	365.4	13.55	475	2,469					610	214	111									
DF		29	1	89	157	.484	2.22	1.45	82.1	426.7	3.40	119	620					153	54	28									
DF		31	2	83	96	.848	4.44	1.27	91.3	463.3	3.31	116	589					149	52	27									
DF		32	2	88	146	.796	4.44	2.39	93.7	470.0	6.38	224	1,122					287	101	50									
DF		33	1	86	154	.374	2.22	1.12	102.0	506.7	3.26	115	569					147	52	26									
DF		34	1	86	156	.352	2.22	1.06	108.7	563.3	3.28	115	596					147	52	27									
DF		37	1	90	139	.298	2.22	.89	126.9	690.0	3.23	113	616					145	51	28									
DF		38	1	87	178	.282	2.22	1.13	114.6	657.5	3.69	129	742					166	58	33									
DF		45	1	87	184	.201	2.22	.80	171.3	1012.5	3.93	138	815					177	62	37									
DF		Totals	85	85	127	89.257	188.89	209.92	39.6	190.2	237.09	8,319	39,936					10,669	3,743	1,797									
RA		11	1	85	54	3.367	2.22	3.37	13.4	50.0	1.24	45	168					56	20	8									
RA		13	1	89	63	2.411	2.22	2.41	21.1	70.0	1.40	51	169					63	23	8									
RA		15	3	85	67	5.432	6.67	5.43	30.1	93.3	4.49	163	507					202	73	23									
RA		17	2	74	65	2.820	4.44	2.82	41.5	80.0	3.22	117	226					145	53	10									
RA		18	1	73	74	1.258	2.22	1.26	52.5	120.0	1.81	66	151					82	30	7									
RA		20	1	73	89	1.019	2.22	2.04	38.6	110.0	2.16	79	224					97	35	10									
RA		23	1	74	90	.770	2.22	1.54	51.9	145.0	2.20	80	223					99	36	10									
RA		24	1	74	80	.707	2.22	1.41	52.6	140.0	2.05	74	198					92	34	9									
RA		Totals	11	81	67	17.784	24.44	20.28	33.3	92.0	18.57	675	1,866					836	304	84									
BM		16	1	73	59	1.592	2.22	1.59	35.9	70.0	1.52	57	111					68	26	5									
BM		22	1	92	88	.842	2.22	1.68	47.9	205.0	2.14	81	345					96	36	16									
BM		23	2	83	81	1.540	4.44	2.31	64.3	216.7	3.94	149	501					177	67	23									
BM		24	1	74	75	.707	2.22	.71	89.4	200.0	1.68	63	141					75	28	6									
BM		25	1	93	88	.652	2.22	1.30	62.4	260.0	2.16	81	339					97	37	15									
BM		Totals	6	81	75	5.333	13.33	7.60	56.7	189.2	11.42	431	1,438					514	194	65									
Totals		102	84	115		112.374	226.67	237.80	39.6	181.8	267.08	9,425	43,240					12,019	4,241	1,946									

TC PLOGSTVB		Log Stock Table - MBF																	
<div>TT1N RR5W S34 Ty00MC45.00</div>		Project: TRIFECT												Page 2					
		Acres 45.00												Date 9/18/2023					
														Time 11:55:41AM					
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+	
RA	CR	29	9		9	11.1			9										
RA	CR	38	6		6	6.8			6										
RA	CR	40	66		66	78.4			12	30	8	16							
RA	Totals		84		84	4.3			30	30	8	16							
Total	All Species		1,946		1,946	100.0			196	172	251	258	329	485	174	64	18		

TC PSTATS			PROJECT STATISTICS						PAGE	1	
			PROJECT			TRIFECT			DATE	9/18/2023	
TWP	RGE	SC	TRACT	TYPE		ACRES		PLOTS	TREES	CuFt	BdFt
T1N	R5	34	00U3	00MC		18.00		8	47	S	W
			PLOTS		TREES	TREES		ESTIMATED TOTAL TREES		PERCENT SAMPLE TREES	
TOTAL			8	47	5.9						
CRUISE			8	47	5.9		2,235		2.1		
DBH COUNT											
REFOREST											
COUNT											
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
DOUG FIR			35	73.6	20.9	126	38.3	175.0	38,907	38,282	8,223
DOUG FIR-S			1	2.3	20.0	120	1.1	5.0			
R ALDER			8	34.7	14.5	85	10.5	40.0	3,376	3,376	1,129
BL MAPLE			3	13.5	14.3	90	4.0	15.0	1,098	1,098	325
TOTAL			47	124.2	18.6	110	54.4	235.0	43,382	42,756	9,677
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			83.0	14.0	790	919	1,048				
DOUG FIR-S											
R ALDER			36.4	13.7	91	105	119				
BL MAPLE			35.3	24.4	66	87	108				
TOTAL			106.1	15.5	599	708	818	450	112	50	
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			72.5	12.2	166	190	213				
DOUG FIR-S											
R ALDER			39.5	14.9	30	36	41				
BL MAPLE			41.9	29.0	18	25	32				
TOTAL			92.6	13.5	129	149	169	342	86	38	
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			90.7	34.2	48	74	99				
DOUG FIR-S			282.8	106.6		2	5				
R ALDER			168.6	63.6	13	35	57				
BL MAPLE			185.6	70.0	4	14	23				
TOTAL			64.3	24.3	94	124	154	188	47	21	
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			55.9	21.1	138	175	212				
DOUG FIR-S			282.8	106.6		5	10				
R ALDER			160.4	60.5	16	40	64				
BL MAPLE			198.4	74.8	4	15	26				
TOTAL			39.1	14.7	200	235	270	69	17	8	
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			51.0	19.2	30,916	38,282	45,647				
DOUG FIR-S											
R ALDER			158.7	59.9	1,356	3,376	5,397				
BL MAPLE			196.3	74.0	286	1,098	1,911				

TC PSTATS				<u>PROJECT STATISTICS</u>					PAGE	2	
				PROJECT		TRIFECT			DATE	9/18/2023	
TWP	RGE	SC	TRACT	TYPE		ACRES		PLOTS	TREES	CuFt	BdFt
T1N	R5	34	00U3	00MC		18.00		8	47	S	W
CL	68.1	COEFF		NET BF/ACRE					# OF PLOTS REQ.		INF. POP.
SD:	1.00	VAR.		S.E.%	LOW	AVG	HIGH	5	10	15	
TOTAL			41.8	15.8	36,018	42,756	49,494	79	20	9	
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			52.0	19.6	6,610	8,223	9,837				
DOUG FIR-S											
R ALDER			157.7	59.5	457	1,129	1,800				
BL MAPLE			190.4	71.8	92	325	558				
TOTAL			41.0	15.4	8,182	9,677	11,171	76	19	8	

TC PSPCSTGR

Species, Sort Grade - Board Foot Volumes (Project)

TT1N RR5W S34 Ty00MC

18.00

Project: TRIPECT

Page 1

Acres 18.00

Date 9/18/2023

Time 11:57:13AM

Spp	S T	So rt	Gr ad	% Net BdFt	Bd. Ft. per Acre Def%GrossNet			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														30	10		0.00	11.8
DF			2M	73	1.9	28,878	28,320	510			36	64		2		98	40	17	472	2.40	60.0
DF			3M	23	.8	8,569	8,501	153		100				1		99	40	9	109	0.70	78.1
DF			4M	4		1,461	1,461	26		100			20	60	5	14	22	6	30	0.33	48.3
DF Totals				90	1.6	38,907	38,282	689		26	27	47	1	4	0	95	35	11	193	1.19	198.2
BM			CU														23	9		0.00	10.7
BM			CR	100		1,098	1,098	20		100				26		74	30	9	81	0.79	13.5
BM Totals				3		1,098	1,098	20		100				26		74	27	9	45	0.49	24.3
RA			CU														3	12		0.00	5.4
RA			CR	100		3,376	3,376	61		100				4	10	86	37	8	88	0.79	38.3
RA Totals				8		3,376	3,376	61		100				4	10	86	33	8	77	0.78	43.7
Totals					1.4	43,382	42,756	770		34	24	42	1	4	3	92	34	10	161	1.07	266.2

TC		PSTNDSUM										Stand Table Summary			Page 1	
												Date:		9/18/2023		
TT1N RR5W S34 Ty00MC					18.00		Project		TRIFECT		Time:		11:57:14AM			
							Acres		18.00		Grown Year:					
S Sp	T	Sample		Tot		Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals		
		DBH	Trees	FF 16'	Av Ht				Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF
DF	12	2	88	103	12.732	10.00	25.46	13.2	60.0	9.55	335	1,528	172	60	28	
DF	13	2	85	94	10.849	10.00	21.70	14.1	57.5	8.70	305	1,248	157	55	22	
DF	14	1	86	100	4.677	5.00	9.35	17.8	70.0	4.74	166	655	85	30	12	
DF	16	2	88	130	7.162	10.00	17.90	23.2	104.0	11.84	416	1,862	213	75	34	
DF	17	1	85	105	3.172	5.00	3.17	41.1	180.0	3.72	130	571	67	23	10	
DF	20	2	85	126	4.584	10.00	6.88	32.0	130.0	6.27	220	894	113	40	16	
DF	21	1	85	122	2.079	5.00	6.24	34.8	133.3	6.19	217	832	111	39	15	
DF	22	3	86	141	5.682	15.00	17.05	42.5	195.6	20.63	724	3,334	371	130	60	
DF	23	1	86	126	1.733	5.00	5.20	35.0	160.0	5.19	182	832	93	33	15	
DF	24	3	86	156	4.775	15.00	14.32	54.3	236.7	22.17	778	3,390	399	140	61	
DF	25	1	85	166	1.467	5.00	5.87	46.2	192.5	7.72	271	1,129	139	49	20	
DF	26	2	85	158	2.712	10.00	8.14	64.4	296.7	14.95	524	2,414	269	94	43	
DF	27	1	86	154	1.258	5.00	3.77	68.8	320.0	7.40	260	1,207	133	47	22	
DF	28	5	85	154	5.847	25.00	18.71	69.7	337.5	37.16	1,304	6,314	669	235	114	
DF	29	1	85	151	1.090	5.00	3.27	77.8	376.7	7.25	254	1,232	131	46	22	
DF	30	1	86	153	1.019	5.00	3.06	85.7	416.7	7.47	262	1,273	134	47	23	
DF	31	2	86	149	1.908	10.00	5.72	87.9	410.0	14.34	503	2,347	258	91	42	
DF	34	1	89	147	.793	5.00	2.38	110.9	533.3	7.52	264	1,269	135	48	23	
DF	35	1	85	147	.748	5.00	2.25	112.3	543.3	7.19	252	1,220	129	45	22	
DF	38	1	86	163	.635	5.00	1.90	142.8	776.7	7.75	272	1,479	140	49	27	
DF	42	1	85	183	.520	5.00	2.08	146.9	837.5	8.70	305	1,741	157	55	31	
DF	43	1	86	166	.496	5.00	1.98	140.2	762.5	7.92	278	1,512	143	50	27	
DF	Totals	36	86	125	75.936	180.00	186.40	44.1	205.4	234.37	8,223	38,282	4,219	1,480	689	
RA	12	1	88	63	6.366	5.00	6.37	17.6	70.0	3.08	112	446	56	20	8	
RA	13	1	74	75	5.424	5.00	5.42	17.9	60.0	2.67	97	325	48	17	6	
RA	14	2	73	92	9.354	10.00	9.35	30.7	80.0	7.90	287	748	142	52	13	
RA	16	3	73	97	10.743	15.00	14.32	33.4	100.0	13.14	478	1,432	236	86	26	
RA	18	1	74	86	2.829	5.00	2.83	54.5	150.0	4.24	154	424	76	28	8	
RA	Totals	8	76	85	34.717	40.00	38.30	29.5	88.2	31.03	1,129	3,376	559	203	61	
BM	12	1	73	78	6.366	5.00	6.37	20.2	60.0	3.41	129	382	61	23	7	
BM	16	2	73	101	7.162	10.00	7.16	27.4	100.0	5.20	196	716	94	35	13	
BM	Totals	3	73	90	13.528	15.00	13.53	24.0	81.2	8.61	325	1,098	155	58	20	
Totals		47	82	110	124.182	235.00	238.23	40.6	179.5	274.01	9,677	42,756	4,932	1,742	770	

Log Stock Table - MBF

TT1N RR5W S34 Ty00MC 18.00

Project: TRIFECT
Acres 18.00Page 1
Date 9/18/2023
Time 11:57:12AM

Spp	T	So Gr rt de	Log Len	Gross MBF	Def %	Net MBF	% Spe	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	26	9		9	1.4							9					
DF		2M	40	510	2.0	500	72.6						32	126	143	107	63	30	
DF		3M	29	1		1	.1					1							
DF		3M	36	2		2	.3			2									
DF		3M	39	1		1	.2			1									
DF		3M	40	150		149	21.6			18	74	57							
DF		4M	13	0		0	.1			0									
DF		4M	14	1		1	.1			1		0							
DF		4M	15	2		2	.3			2									
DF		4M	17	2		2	.3			2									
DF		4M	21	5		5	.7			5									
DF		4M	22	1		1	.1			1									
DF		4M	23	3		3	.4			3									
DF		4M	24	3		3	.5			3									
DF		4M	26	3		3	.4			3									
DF		4M	30	1		1	.2			1									
DF		4M	31	1		1	.2			1									
DF		4M	36	2		2	.3			2									
DF		4M	37	2		2	.2			2									
DF		Totals		700	1.6	689	89.5			47	74	58	32	126	152	107	63	30	
BM		CR	22	5		5	26.1					5							
BM		CR	32	8		8	39.1					8							
BM		CR	34	7		7	34.8			7									
BM		Totals		20		20	2.6			7		13							
RA		CR	24	3		3	4.2			3									
RA		CR	34	6		6	9.6			6									
RA		CR	38	8		8	13.2			8									
RA		CR	40	44		44	72.9			6	31	8							
RA		Totals		61		61	7.9			22	31	8							
Total		All Species		781	1.4	770	100.0			76	105	78	32	126	152	107	63	30	

TC PSTATS			PROJECT STATISTICS						PAGE	1		
			PROJECT			TRIFECT			DATE	9/18/2023		
TWP	RGE	SC	TRACT	TYPE		ACRES		PLOTS	TREES	CuFt	BdFt	
T1N	R5	34	00U1	00MC		95.00		39	248	S	W	
T1N	R5W	34	00U2	00MC								
T1N	R5W	34	00U3	00MC								
			PLOTS		TREES	TREES		ESTIMATED TOTAL		PERCENT SAMPLE		
					PER PLOT	TREES		TREES		TREES		
TOTAL			39	248	6.4							
CRUISE			39	248	6.4	11,898		2.1				
DBH COUNT												
REFOREST												
COUNT												
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
DOUG FIR			200	90.2	20.4	133	45.4	205.4	49,231	49,035	10,108	10,108
DOUG FIR-S			15	8.3	18.5	62	3.6	15.6				
R ALDER			20	15.5	15.4	75	5.1	20.2	1,676	1,676	569	569
BL MAPLE			13	11.1	14.8	78	3.5	13.3	1,236	1,236	360	360
TOTAL			248	125.2	19.3	116	57.9	254.5	52,143	51,947	11,037	11,037
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			75.4	5.3	833	880	927					
DOUG FIR-S												
R ALDER			60.5	13.9	112	130	148					
BL MAPLE			94.0	27.1	132	182	231					
TOTAL			92.2	5.8	687	730	772	339	85	38		
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			66.6	4.7	167	175	183					
DOUG FIR-S												
R ALDER			58.3	13.4	39	45	51					
BL MAPLE			77.4	22.3	41	53	65					
TOTAL			81.1	5.1	140	148	155	263	66	29		
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			75.1	12.0	79	90	101					
DOUG FIR-S			276.2	44.2	5	8	12					
R ALDER			221.4	35.4	10	16	21					
BL MAPLE			350.4	56.1	5	11	17					
TOTAL			51.6	8.3	115	125	136	106	27	12		
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			58.3	9.3	186	205	225					
DOUG FIR-S			264.5	42.3	9	16	22					
R ALDER			207.5	33.2	13	20	27					
BL MAPLE			242.5	38.8	8	13	18					
TOTAL			39.1	6.3	239	255	270	61	15	7		
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			60.6	9.7	44,282	49,035	53,788					
DOUG FIR-S												
R ALDER			201.8	32.3	1,135	1,676	2,218					

TC PSTATS				PROJECT STATISTICS				PAGE	2	
				PROJECT	TRIFECT			DATE	9/18/2023	
TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt
T1N	R5	34	00U1	00MC		95.00	39	248	S	W
T1N	R5W	34	00U2	00MC						
T1N	R5W	34	00U3	00MC						
CL	68.1		COEFF	NET BF/ACRE			# OF PLOTS REQ.		INF. POP.	
SD:	1.00		VAR.	S.E.%	LOW	AVG	HIGH	5	10	15
BL MAPLE			232.9	37.3	775	1,236	1,696			
TOTAL			53.3	8.5	47,516	51,947	56,378	114	28	13
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			59.7	9.5	9,144	10,108	11,073			
DOUG FIR-S										
R ALDER			206.7	33.1	381	569	757			
BL MAPLE			225.2	36.0	230	360	489			
TOTAL			49.4	7.9	10,165	11,037	11,910	98	24	11

TC PSPCSTGR

Species, Sort Grade - Board Foot Volumes (Project)

TTIN RR5W S34 Ty00MC	32.00
TTIN RR5W S34 Ty00MC	45.00
TTIN RR5W S34 Ty00MC	18.00

Project: TRIFECT
Acres 95.00

Page 1
Date 9/18/2023
Time 11:18:13AM

Spp	S T	So rt	Gr ad	% Net BdFt	Bd. Ft. per Acre Def%GrossNet		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														27	9		0.00	15.4	
DF			2M	73	.5	36,383	36,218	3,441			42	58		0		100	40	16	432	2.07	83.8	
DF			3M	22	.3	10,851	10,820	1,028			99	1		1	1	98	40	9	111	0.69	97.7	
DF			4M	5		1,997	1,997	190			100			19	37	30	25	6	35	0.34	57.0	
DF Totals				94	.4	49,231	49,035	4,658			26	31	43	1	2	1	96	36	11	193	1.11	254.0
RA			CU														3	12		0.00	1.0	
RA			CR	100		1,676	1,676	159			82	18		2	9	4	85	36	8	94	0.88	17.9
RA Totals				3		1,676	1,676	159			82	18		2	9	4	85	34	8	88	0.87	18.9
BM			CU														23	9		0.00	2.0	
BM			CR	100		1,236	1,236	117			60	29	11		11	32	57	33	8	101	0.89	12.2
BM Totals				2		1,236	1,236	117			60	29	11		11	32	57	32	9	87	0.79	14.2
Totals					0.4	52,143	51,947	4,935			29	31	40	1	2	2	95	36	10	181	1.08	287.1

TC	PSTNDSUM										Stand Table Summary										Page 1	
													Date:		9/18/2023							
TT1N RR5W S34 Ty00MC					32.00		Project					TRIFECT					Time:		11:18:14AM			
TT1N RR5W S34 Ty00MC					45.00		Acres					95.00					Grown Year:					
S				Tot							Average Log											
Spc	T	DBH	Sample Trees	FF 16'	Av Ht	Trees/Acre	BA/Acre	Logs Acre	Net Cu.Ft.	Net Bd.Ft.	Tons/Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals								
														Tons	Cunits	MBF						
DF	9	2	86	74		4.692	2.07	4.69	8.5	40.0	1.13	40	188	107	38	18						
DF	10	1	36	20		1.930	1.05															
DF	11	2	88	109		3.141	2.07	6.28	10.4	47.5	1.86	65	298	177	62	28						
DF	12	8	88	104		10.392	8.16	19.46	13.6	59.3	7.54	265	1,154	716	251	110						
DF	13	4	87	111		4.340	4.00	8.68	16.2	69.3	4.00	140	602	380	133	57						
DF	14	3	87	115		2.825	3.02	5.65	20.0	87.2	3.23	113	492	306	108	47						
DF	15	5	88	125		4.249	5.21	9.34	22.1	100.1	5.88	206	935	559	196	89						
DF	16	12	85	111		8.873	12.39	17.66	22.5	102.4	11.30	397	1,809	1,074	377	172						
DF	17	6	87	112		3.920	6.18	4.57	32.2	130.8	4.19	147	597	398	140	57						
DF	18	7	87	141		4.133	7.30	11.81	28.4	123.0	9.55	335	1,453	908	318	138						
DF	19	5	89	138		2.665	5.25	7.99	30.0	132.0	6.83	240	1,055	649	228	100						
DF	20	13	87	132		6.161	13.44	15.73	34.1	153.9	15.31	537	2,421	1,454	510	230						
DF	21	14	89	144		6.049	14.55	18.15	39.6	188.2	20.46	718	3,416	1,944	682	325						
DF	22	17	87	140		6.629	17.50	18.71	43.7	205.5	23.30	817	3,844	2,213	777	365						
DF	23	10	89	146		3.589	10.36	10.77	48.3	226.7	14.81	520	2,441	1,407	494	232						
DF	24	17	88	159		5.570	17.50	17.71	52.5	249.9	26.52	931	4,425	2,519	884	420						
DF	25	9	87	138		2.715	9.26	6.60	55.9	256.0	10.52	369	1,690	999	351	161						
DF	26	8	88	160		2.209	8.15	7.47	58.9	289.6	12.54	440	2,163	1,192	418	206						
DF	27	8	89	162		2.067	8.22	7.25	63.0	330.0	13.02	457	2,392	1,237	434	227						
DF	28	19	88	153		4.520	19.33	14.02	68.2	353.6	27.26	956	4,957	2,590	909	471						
DF	29	7	87	162		1.566	7.18	5.38	72.7	373.8	11.14	391	2,009	1,058	371	191						
DF	30	5	87	153		1.038	5.09	2.90	76.8	392.4	6.35	223	1,139	603	212	108						
DF	31	8	86	146		1.554	8.15	4.65	82.3	417.3	10.92	383	1,942	1,037	364	184						
DF	32	7	87	161		1.305	7.29	4.47	88.1	455.9	11.22	394	2,038	1,066	374	194						
DF	33	2	87	163		.352	2.09	1.23	92.8	481.6	3.25	114	592	309	108	56						
DF	34	3	88	152		.482	3.04	1.44	109.2	550.6	4.49	158	795	427	150	76						
DF	35	2	86	157		.297	1.98	1.05	101.1	528.0	3.01	106	552	286	100	52						
DF	36	1	86	179		.147	1.04	.59	106.2	587.5	1.78	62	345	169	59	33						
DF	37	2	89	164		.280	2.09	.98	122.0	682.9	3.40	119	668	323	113	63						
DF	38	3	85	162		.386	3.04	1.29	127.2	689.6	4.68	164	890	445	156	85						
DF	40	1	86	178		.119	1.04	.48	129.0	737.5	1.75	61	350	166	58	33						
DF	41	1	87	184		.113	1.04	.45	142.4	837.5	1.83	64	379	174	61	36						
DF	42	1	85	183		.098	.95	.39	146.9	837.5	1.65	58	330	157	55	31						
DF	43	1	86	166		.094	.95	.38	140.2	762.5	1.50	53	287	143	50	27						
DF	45	1	87	184		.095	1.05	.38	171.3	1012.5	1.86	65	386	177	62	37						
DF	Totals	215	86	127		98.593	221.00	238.60	42.4	205.5	288.09	10,108	49,035	27,368	9,603	4,658						
RA	11	1	85	54		1.595	1.05	1.60	13.4	50.0	.59	21	80	56	20	8						
RA	12	1	88	63		1.206	.95	1.21	17.6	70.0	.58	21	84	56	20	8						
RA	13	2	82	69		2.170	2.00	2.17	19.6	65.3	1.17	42	142	111	40	13						
RA	14	2	73	92		1.772	1.89	1.77	30.7	80.0	1.50	54	142	142	52	13						
RA	15	3	85	67		2.573	3.16	2.57	30.1	93.3	2.13	77	240	202	73	23						
RA	16	3	73	97		2.036	2.84	2.71	33.4	100.0	2.49	91	271	236	86	26						
RA	17	2	74	65		1.336	2.11	1.34	41.5	80.0	1.52	55	107	145	53	10						
RA	18	2	73	80		1.132	2.00	1.13	53.5	134.2	1.66	60	152	158	57	14						
RA	19	1	92	88		.526	1.04	1.05	33.7	145.0	.98	35	153	93	34	15						
RA	20	1	73	89		.482	1.05	.96	38.6	110.0	1.02	37	106	97	35	10						
RA	23	1	74	90		.365	1.05	.73	51.9	145.0	1.04	38	106	99	36	10						
RA	24	1	74	80		.335	1.05	.67	52.6	140.0	.97	35	94	92	34	9						
RA	Totals	20	79	75		15.528	20.19	17.92	31.8	93.6	15.65	569	1,676	1,487	541	159						
BM	10	2	90	68		3.801	2.07	3.80	11.3	55.0	1.14	43	209	109	41	20						
BM	11	1	74	88		1.570	1.04	1.57	14.7	50.0	.61	23	79	58	22	7						
BM	12	1	73	78		1.206	.95	1.21	20.2	60.0	.65	24	72	61	23	7						

TC		PSTNDSUM										Stand Table Summary					Page		2	
												Date:		9/18/2023						
				TTIN RR5W S34 Ty00MC		32.00		Project		TRIFECT		Time:		11:18:14AM						
				TTIN RR5W S34 Ty00MC		45.00		Acres		95.00		Grown Year:								
				TTIN RR5W S34 Ty00MC		18.00														
S		Tot				Average Log			Net			Net			Totals					
Sp		Sample		FF	Av	Trees/	BA/	Logs	Net	Net	Tons/	Cu.Ft.	Bd.Ft.	Tons						
T		DBH	Trees	16'	Ht	Acre	Acre	Acre	Cu.Ft.	Bd.Ft.	Acre	Acre	Acre	Cunits	MBF					
BM		16	3	73	86	2.111	2.95	2.11	30.4	89.3	1.70	64	188	162	61	18				
BM		17	1	74	67	.658	1.04	.66	42.3	90.0	.74	28	59	70	26	6				
BM		22	1	92	88	.399	1.05	.80	47.9	205.0	1.01	38	163	96	36	16				
BM		23	2	83	81	.730	2.11	1.09	64.3	216.7	1.86	70	237	177	67	23				
BM		24	1	74	75	.335	1.05	.34	89.4	200.0	.79	30	67	75	28	6				
BM		25	1	93	88	.309	1.05	.62	62.4	260.0	1.02	39	161	97	37	15				
BM		Totals		13	78	11.118	13.30	12.19	29.5	101.4	9.53	360	1,236	906	342	117				
Totals		248		85	116	125.239	254.50	268.70	41.1	193.3	313.28	11,037	51,947	29,761	10,485	4,935				

Log Stock Table - MBF

TTIN RR5W S34 Ty00MC	32.00
TTIN RR5W S34 Ty00MC	45.00
TTIN RR5W S34 Ty00MC	18.00

Project: TRIFECT
Acres 95.00

Page 2
Date 9/18/2023
Time 11:18:12AM

Spp	S T	So Gr rt de	Log Len	Gross MBF	Def %	Net MBF	% Spe	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		4M	36	2		2	.0			2									
DF		4M	37	2		2	.0			2									
DF		4M	40	23		23	.5			11	12								
DF		Totals		4,677		4,658	94.4			373	342	495	448	669	1194	815	257	65	
RA		CR	20	3		3	1.6			3									
RA		CR	22	1		1	.8			1									
RA		CR	24	4		4	2.8			4									
RA		CR	29	9		9	5.8			9									
RA		CR	34	6		6	3.7			6									
RA		CR	38	14		14	8.6			14									
RA		CR	40	122		122	76.7			18	60	16	28						
RA		Totals		159		159	3.2			53	63	16	28						
BM		CR	22	5		5	4.4					5							
BM		CR	28	7		7	6.4			7									
BM		CR	31	11		11	9.3			11									
BM		CR	32	8		8	6.6					8							
BM		CR	33	13		13	10.7			13									
BM		CR	34	7		7	5.9			7									
BM		CR	37	2		2	2.1			2									
BM		CR	39	5		5	4.3			5									
BM		CR	40	59		59	50.4				6	6	6	14	27				
BM		Totals		117		117	2.4			45	6	19	6	14	27				
Total		All Species		4,954		4,935	100.0			471	411	530	482	683	1221	815	257	65	

Volume Summary
(Shown in MBF)
Trifecta
FG-341-2024-W01023-01
January 2024

UNIT 1: MC (32 ACRES)

SPECIES		2 SAW	3 SAW	4 SAW	Camp Run	TOTAL
Douglas-fir	Cruise Volume	1,675	408	89	0	2,172
	Hidden D&B (2%)	(34)	(8)	(2)	(0)	(44)
	NET TOTAL	1,641	400	87	0	2,128
	% of Total	77	19	4	0	
Red alder	Cruise Volume	0	0	0	15	15
	Hidden D&B (5%)	(0)	(0)	(0)	(1)	(1)
	NET TOTAL	0	0	0	14	14
	% of Total	0	0	0	100	
Bigleaf maple	Cruise Volume	0	0	0	33	33
	Hidden D&B (5%)	(0)	(0)	(0)	(2)	(2)
	NET TOTAL	0	0	0	31	31
	% of Total	0	0	0	100	

UNIT 2: MC (45 ACRES)

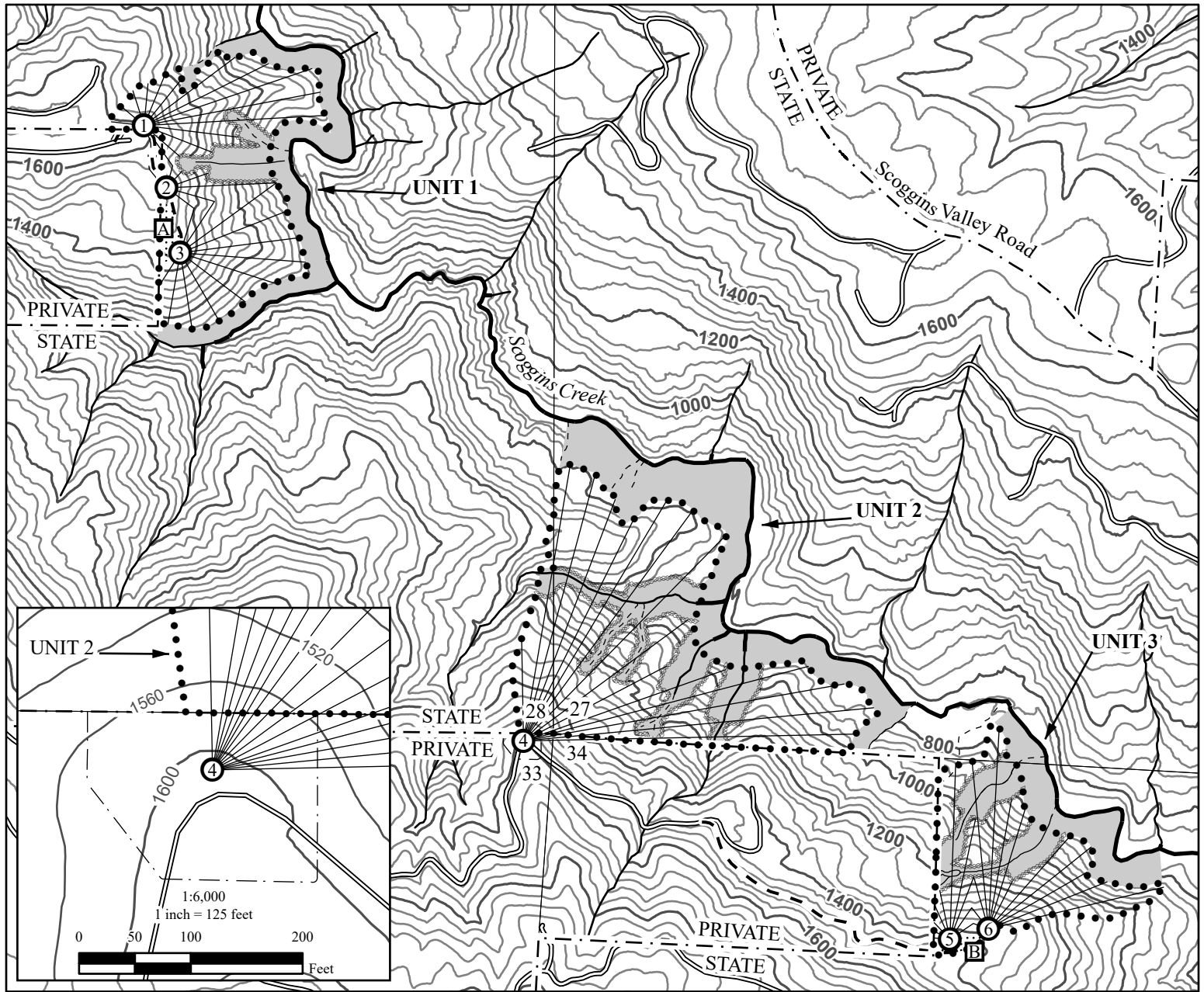
SPECIES		2 SAW	3 SAW	4 SAW	Camp Run	TOTAL
Douglas-fir	Cruise Volume	1,256	466	74	0	1,796
	Hidden D&B (2%)	(25)	(9)	(1)	(0)	(35)
	NET TOTAL	1,231	457	73	0	1,761
	% of Total	70	26	4	0	
Red alder	Cruise Volume	0	0	0	84	84
	Hidden D&B (5%)	(0)	(0)	(0)	(4)	(4)
	NET TOTAL	0	0	0	80	80
	% of Total	0	0	0	100	
Bigleaf maple	Cruise Volume	0	0	0	65	65
	Hidden D&B (5%)	(0)	(0)	(0)	(3)	(3)
	NET TOTAL	0	0	0	62	62
	% of Total	0	0	0	100	

UNIT 3: MC (18 ACRES)

SPECIES		2 SAW	3 SAW	4 SAW	Camp Run	TOTAL
Douglas-fir	Cruise Volume	510	153	26	0	689
	Hidden D&B (2%)	(10)	(3)	(1)	(0)	(14)
	NET TOTAL	500	150	25	0	675
	% of Total	74	22	4	0	
Red alder	Cruise Volume	0	0	0	61	61
	Hidden D&B (5%)	(0)	(0)	(0)	(3)	(3)
	NET TOTAL	0	0	0	58	58
	% of Total	0	0	0	100	
Bigleaf maple	Cruise Volume	0	0	0	20	20
	Hidden D&B (5%)	(0)	(0)	(0)	(1)	(1)
	NET TOTAL	0	0	0	19	19
	% of Total	0	0	0	100	

SALE TOTAL

SPECIES	2 SAW	3 SAW	4 SAW	Camp Run	TOTAL
Douglas-fir	3,372	1,007	185	0	4,564
Red alder	0	0	0	152	152
Bigleaf maple	0	0	0	112	112
Total	3,372	1,007	185	264	4,828



Legend

- • • Timber Sale Boundary
- ~~~~~ Posted Stream Buffer Boundary
- Right-of-Way Boundary
- - - ODF Ownership Boundary
- Surfaced Road
- - - New Road Construction
- ... Reprod Clearing Area
- Type-F Stream
- Type-N Stream - Perennial
- - - Type-N Stream - Seasonal
- Stream Buffer
- ∟ Cable Yarding Area
- Tractor Yarding Area
- Cable Landing
- Tractor Landing
- Section Line
- 40 Foot Contour Band
- 200 Foot Contour Band

LOGGING PLAN

FOR TIMBER SALE CONTRACT #FG-341-2024-W01023-01
TRIFECTA
PORTIONS OF SECTIONS 27, 28 & 34, T1N, R5W, W.M.,
WASHINGTON COUNTY, OREGON

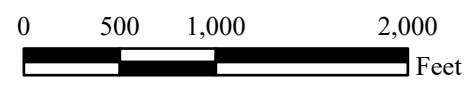
Forest Grove District GIS
January, 2024

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



APROXIMATE NET ACRES

	TRACTOR	CABLE
UNIT 1	1	31
UNIT 2	0	45
UNIT 3	1	17
TOTAL	2	93