



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Triple Crown
Sale FG-341-2024-000950-01

District: Forest Grove

Date: October 25, 2023

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$3,057,314.19	\$0.00	\$3,057,314.19
		Project Work:	(\$115,000.00)
		Advertised Value:	\$2,942,314.19



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District: Forest Grove

Date: October 25, 2023

Timber Description

Location:

Stand Stocking: 20%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	26	0	98
Western Hemlock / Fir	30	0	98

Volume by Grade	2S	3S & 4S 6"-11"	Total
Douglas - Fir	5,484	777	6,261
Western Hemlock / Fir	483	27	510
Total	5,967	804	6,771

Comments: LOCAL POND VALUES, SEPTEMBER 2023

WESTERN REDCEDAR AND OTHER CEDARS:
STUMPAGE PRICE = POND VALUE - DOUG-FIR LOGGING COST
 $\$859.29 = \$1,170.00 - \$310.71$

RED ALDER AND OTHER HARDWOODS:
STUMPAGE PRICE = POND VALUE - DOUG-FIR LOGGING COST
 $\$192.29 = \$503.00 - \$310.71$

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:
 $30 \text{ HOURS} \times \$200/\text{HOUR} = \$6,000$

MACHINE TIME TO PILE LANDING SLASH AND SORT FIREWOOD:
 $30 \text{ HOURS} \times \$200/\text{HOUR} = \$6,000$

TOTAL OTHER COSTS (NO P&R) = \$15,000

SLASH TREATMENT: 50 ACRES X \$250/ACRE = \$12,500

ROAD MAINTENANCE (INCLUDES SPOT ROCKING, GRADING, & ROLLING):
Move-in: \$1,087.32
General Road Maintenance: 7.94 miles X \$2,398.15 = \$19,041.31
Total Road Maintenance: $\$20,128.63 / 6,771 \text{ MBF} = \$2.97/\text{MBF}$



Timber Sale Appraisal
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District: Forest Grove

Date: October 25, 2023

Logging Conditions

Combination#: 1 Douglas - Fir 21.55%
 Western Hemlock / Fir 20.82%

Logging System: Cable: Medium Tower >40 - <70 **Process:** Stroke Delimber

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

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

loads / day: 10 **bd. ft / load:** 4800

cost / mbf: \$166.22

machines: Log Loader (A)
 Stroke Delimber (A)
 Tower Yarder (Medium)

Combination#: 2 Douglas - Fir 78.45%
 Western Hemlock / Fir 79.18%

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

cost / mbf: \$173.61

machines: Forwarder
 Harvester



"STEWARDSHIP IN FORESTRY"

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District: Forest Grove

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Logging Costs

Operating Seasons: 2.00	Profit Risk: 15%
Project Costs: \$115,000.00	Other Costs (P/R): \$0.00
Slash Disposal: \$12,500.00	Other Costs: \$15,000.00

Miles of Road

Road Maintenance: \$2.97

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	3.0	4.8
Western Hemlock / Fir	\$0.00	2.0	4.2
Noble Fir	\$0.00	2.0	4.2



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Triple Crown
Sale FG-341-2024-000950-01

District: Forest Grove

Date: October 25, 2023

Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
Douglas - Fir									
\$172.02	\$3.03	\$1.30	\$88.55	\$0.00	\$39.74	\$1.85	\$2.00	\$2.22	\$310.71
Western Hemlock / Fir									
\$172.07	\$3.03	\$1.30	\$151.79	\$0.00	\$49.23	\$1.85	\$2.00	\$2.22	\$383.49

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$784.30	\$473.59	\$0.00
Western Hemlock / Fir	\$0.00	\$564.21	\$180.72	\$0.00



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Timber Sale Appraisal
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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	6,261	\$473.59	\$2,965,146.99
Western Hemlock / Fir	510	\$180.72	\$92,167.20

Gross Timber Sale Value

Recovery: \$3,057,314.19

Prepared By: MARK SAVAGE

Phone: 503-359-7437

TIMBER SALE SUMMARY
Triple Crown
#FG-341-2024-W00950-01

1. **Location:** Portions of Sections 22, 23, 25, and 26, T3N, R6W, W.M., Tillamook County, Oregon.
2. **Type of Sale:** This timber sale is 141 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% Tillamook County (5601).
4. **Sale Acreage:** Acres are net of stream buffers, road prisms, and green tree retention areas. Acreage was determined using ESRI ArcGIS Pro software.
5. **Cruise:** The timber sale was cruised by ODF Cruisers in October of 2023. For more information, see Cruise Report.
6. **Timber Description:** The Timber Sale Area consists of a well-stocked, 87 to 95-year-old stand of Douglas-fir with minor components of western hemlock and noble fir. These timber stands have an average of 205 ft² of basal area, an average Douglas-fir DBH of 26 inches. The estimated average net Douglas-fir volume is approximately 44.4 MBF per acre.
7. **Topography and Logging Method:** Slopes within the Timber Sale Area range from 5% to 70% with variable aspects. Unit 1 is 70% ground-based yarding and 30% cable-based yarding. Unit 2 is 90% ground-based yarding and 10% cable-based yarding. Unit 3 is 67% ground-based yarding and 33% cable-based yarding. The average cable corridor length is approximately 300 feet and the maximum is approximately 800 feet. The average horizontal skid trail length is approximately 300 feet and the maximum is approximately 900 feet.
8. **Access:** All access to the Timber Sale Area is on surfaced all-weather roads. From Forest Grove, travel north on Highway 47 through Banks, then merge onto Highway 26. Continue on Highway 26 westbound for approximately 11.5 miles to Timber Road. Turn left onto Timber Road and proceed south for approximately 3 miles to Cochran Road. Turn right onto Cochran Road and continue for 4.4 miles to Derby Creek Road. Turn right onto Derby Creek Road and proceed 2 miles to enter the eastern portion of Unit 3. Continue on Derby Creek Road an additional 1.3 miles to enter the eastern portion of Unit 2. Continue on Derby Creek Road an additional 0.7 miles to enter the southern portion of Unit 1. Note: Directions to the timber sale was altered to reflect the closure of Timber Road, south of the town of Timber, through 2023.
9. **Projects:**

Project No. 1: Rocked road construction	\$18,882.78
Project No. 2: Road improvement	\$95,197.59
Project No. 3: Road vacating	\$919.63

Total Credit for all Projects (rounded)	\$115,000.00
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PROJECT COST SUMMARY SHEET

Timber Sale: Triple Crown
Sale Number: FG-341-2024-W00950-01

PROJECT NO. 1: ROCKED ROAD CONSTRUCTION

Road Segment	Length	Cost
I to J	1+65	\$3,556.86
K to L	7+05	\$9,981.66
Q to R	2+05	\$4,474.14
	10+75 stations	
	0.20 miles	
Total Rock =	1,221 cy	3" - 0
		Move-in = \$870.11
TOTAL PROJECT COST =		\$18,882.78

PROJECT NO. 2: ROAD IMPROVEMENT

Road Segment	Length	Cost
A to B	275+10	\$58,242.77
C to D	28+05	\$6,794.75
E to F	4+25	\$1,892.89
G to H	5+75	\$2,497.24
M to N	28+75	\$18,667.28
O to P	3+80	\$2,715.99
	345+70 stations	
	6.55 miles	
Total Rock =	2,957 cy	1½" - 0
	2,301 cy	3" - 0
	48 cy	Riprap
		Move-in = \$4,386.67
TOTAL PROJECT COST =		\$95,197.59

PROJECT NO. 3: ROAD VACATING

Road Segment	Length	Cost
V1 to V2	20+55	\$272.25
V3 to V4	19+70	\$211.75
V5 to V6	9+30	\$181.50
V7 to V8	13+20	\$211.75
	62+75 stations	
	1.19 miles	
		Move-in = \$42.38
TOTAL PROJECT COST =		\$919.63

TOTAL CREDITS = \$115,000.00

SUMMARY OF CONSTRUCTION COST

Timber Sale: Triple Crown
 Road Segment: A to B - Page 1.

Sale Number: FG-341-2024-W00950-01
 Improvement: 275+10 stations
 5.21 miles

PROJECT NO. 2: ROAD IMPROVEMENT

IMPROVEMENT

Clearing & grubbing (scatter)	2.85	ac @	\$1,692.00	per acre =	\$4,822.20
Clearing & grubbing (end-haul)	0.20	ac @	\$860.25	per acre =	\$172.05
Berm installation (165+85 to 167+20)					
Shape & compact	119	cy @	\$10.80	per cy =	\$1,285.20
Bank slough, end-haul (133+10)					
Excavate & load	30	cy @	\$1.64	per cy =	\$49.20
Haul	39	cy @	\$0.82	per cy =	\$31.98
Compact waste area	39	cy @	\$0.30	per cy =	\$11.70
Clean culvert inlet & outlet, scatter waste	4	ea @	\$27.50	per ea =	\$110.00
Clean culvert inlet & outlet, end-haul waste	3	ea @	\$27.50	per ea =	\$82.50
Haul waste material	4	cy @	\$2.47	per cy =	\$9.88
Shape & compact waste material	4	cy @	\$0.35	per cy =	\$1.40
Cutslope layback (136+00 to 136+35)					
Excavate & load	59	cy @	\$1.94	per cy =	\$114.46
Haul	77	cy @	\$0.93	per cy =	\$71.61
Shape and compact waste material	77	cy @	\$0.35	per cy =	\$26.95
Cutslope layback (137+05 to 137+50)					
Excavate & load	88	cy @	\$1.94	per cy =	\$170.72
Haul	114	cy @	\$0.96	per cy =	\$109.44
Shape and compact waste material	114	cy @	\$0.35	per cy =	\$39.90
Cutslope layback (139+20 to 139+95)					
Excavate & load	125	cy @	\$1.94	per cy =	\$242.50
Haul	163	cy @	\$1.04	per cy =	\$169.52
Shape and compact waste material	163	cy @	\$0.35	per cy =	\$57.05
Cutslope layback (167+50 to 168+30)					
Excavate & load (165+85 to 167+20)	119	cy @	\$1.94	per cy =	\$230.86
Settling pond waste material end-haul (Large)					
Excavate & load	64	cy @	\$1.94	per cy =	\$124.16
Haul	83	cy @	\$1.61	per cy =	\$133.63
Compact waste area	83	cy @	\$0.35	per cy =	\$29.05
Settling pond waste material end-haul					
Excavate & load	6	cy @	\$1.94	per cy =	\$11.64
Haul	8	cy @	\$1.80	per cy =	\$14.40
Compact waste area	8	cy @	\$0.35	per cy =	\$2.80
Construct large settling pond	12	ea @	\$40.00	per ea =	\$480.00
Construct settling pond	6	ea @	\$27.50	per ea =	\$165.00
Improve turnout	19	ea @	\$36.30	per ea =	\$689.70
Construct roadside landing	1	ea @	\$181.50	per ea =	\$181.50
Excavate, place and & compact fill	120	cy @	\$4.54	per cy =	\$544.80
Grade & roll (inslope 129+60 to 134+30)	4.70	sla @	\$35.45	per sta =	\$166.61
Grade, ditch, & roll	272.00	sla @	\$39.65	per sta =	\$10,784.80

TOTAL IMPROVEMENT COSTS = \$21,137.21

CULVERTS

Culverts and Bands					
18" Diameter	210	lf @	\$22.05	per lf =	\$4,630.50
Markers & Stakes					
Culvert markers	27	ea @	\$12.00	per ea =	\$324.00

TOTAL CULVERT COSTS = \$4,954.50

SUMMARY OF CONSTRUCTION COST

Timber Sale: Triple Crown
 Road Segment: A to B - Page 2.

Sale Number: FG-341-2024-W00950-01
 Improvement: 275+10 stations
5.21 miles

PROJECT NO. 2: ROAD IMPROVEMENT ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Subgrade rock						
Bedding and backfill	1½" - 0	\$1.19	\$9.74	\$0.55	168	\$1,928.64
Energy dissipator	Riprap	\$25.18	\$6.72	\$1.75	24	\$807.60
Subtotal =					192	\$2,736.24
Surfacing rock						
Surfacing rock	1½" - 0	\$1.19	\$7.05	\$1.35	2,264	\$21,711.76
Junction	1½" - 0	\$1.19	\$7.05	\$1.35	204	\$1,956.36
Turnout	1½" - 0	\$1.19	\$7.05	\$1.35	133	\$1,275.47
Roadside landing	3" - 0	\$1.16	\$7.74	\$1.35	95	\$973.75
Curve widening	1½" - 0	\$1.19	\$7.05	\$1.35	44	\$421.96
Curve widening	3" - 0	\$1.16	\$7.74	\$1.35	88	\$902.00
Subtotal =					2,828	\$27,241.30

Totals

All Rock =	3,020
1½" - 0	2,813
3" - 0	183
Riprap	24

TOTAL ROCK COSTS = \$29,977.54

EROSION CONTROL

Grass seed & fertilizer	2.99	ac @	\$697.50	per ac =	\$2,085.52
Straw mulch bale	8	ea @	\$11.00	per ea =	\$88.00

TOTAL EROSION CONTROL COSTS = \$2,173.52

TOTAL PROJECT COST = \$58,242.77

SUMMARY OF CONSTRUCTION COST

Timber Sale: Triple Crown
Road Segment: C to D

Sale Number: FG-341-2024-W00950-01
Improvement: 28+05 stations
0.53 miles

PROJECT NO. 2: ROAD IMPROVEMENT

IMPROVEMENT

Clearing & grubbing (scatter)	0.33	ac @	\$1,692.00	per acre =	\$558.36
Clean culvert inlet & outlet, scatter waste	2	ea @	\$27.50	per ea =	\$55.00
Approach to landing	1.25	sta @	\$759.00	per sta =	\$948.75
Construct roadside landing	2	ea @	\$181.50	per ea =	\$363.00
Improve roadside landing	1	ea @	\$90.75	per ea =	\$90.75
Grade, ditch, & roll	28.05	sta @	\$39.65	per sta =	\$1,112.18

TOTAL IMPROVEMENT COSTS = \$3,128.04

CULVERTS

Markers & Stakes

Culvert markers 1 ea @ \$12.00 per ea = \$12.00

TOTAL CULVERT COSTS = \$12.00

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Surfacing rock						
Turnout	3" - 0	\$1.16	\$5.51	\$1.35	14	\$112.28
Approach to landing	3" - 0	\$1.16	\$5.51	\$1.35	81	\$649.62
Roadside landing	3" - 0	\$1.16	\$5.51	\$1.35	237	\$1,900.74
Landing	3" - 0	\$1.16	\$5.51	\$1.35	95	\$761.90
Subtotal =					427	\$3,424.54

Totals

All Rock =	427
3" - 0	427

TOTAL ROCK COSTS = \$3,424.54

EROSION CONTROL

Grass seed & fertilizer 0.33 ac @ \$697.50 per ac = \$230.17

TOTAL EROSION CONTROL COSTS = \$230.17

TOTAL PROJECT COST = \$6,794.75

SUMMARY OF CONSTRUCTION COST

Timber Sale: Triple Crown
Road Segment: E to F

Sale Number: FG-341-2024-W00950-01
Improvement: 4+25 stations
0.08 miles

PROJECT NO. 2: ROAD IMPROVEMENT

IMPROVEMENT

Clearing & grubbing (scalper)	0.05	ac @	\$1,692.00	per acre =	\$84.60
Improve landing	1	ea @	\$121.00	per ea =	\$121.00
Grade, ditch, & roll	4.25	sta @	\$39.65	per sta =	\$168.51

TOTAL IMPROVEMENT COSTS = \$374.11

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Surfacing rock						
Surfacing rock	3" - 0	\$1.16	\$5.78	\$1.35	132	\$1,094.28
Landing	3" - 0	\$1.16	\$5.78	\$1.35	47	\$389.63
Subtotal =					179	\$1,483.91

Totals

All Rock =	179
3" - 0	179

TOTAL ROCK COSTS = \$1,483.91

EROSION CONTROL

Grass seed & fertilizer	0.05	ac @	\$697.50	per ac =	\$34.87
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TOTAL EROSION CONTROL COSTS = \$34.87

TOTAL PROJECT COST = \$1,892.89

SUMMARY OF CONSTRUCTION COST

Timber Sale: Triple Crown
 Road Segment: G to H

Sale Number: FG-341-2024-W00950-01
 Improvement: 5+75 stations
0.11 miles

PROJECT NO. 2: ROAD IMPROVEMENT

IMPROVEMENT

Clearing & grubbing (scatter)	0.07	ac @	\$1,692.00	per acre =	\$118.44
Clean culvert inlet & outlet, scatter waste	2	ea @	\$27.50	per ea =	\$55.00
Improve landing	1	ea @	\$121.00	per ea =	\$121.00
Grade, ditch, & roll	5.75	sta @	\$39.65	per sta =	\$227.98

TOTAL IMPROVEMENT COSTS = \$522.42

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Surfacing rock						
Surfacing rock	3" - 0	\$1.16	\$6.05	\$1.35	178	\$1,523.68
Landing	3" - 0	\$1.16	\$6.05	\$1.35	47	\$402.32
Subtotal =					225	\$1,926.00

Totals	All Rock =	225
	3" - 0	225

TOTAL ROCK COSTS = \$1,926.00

EROSION CONTROL

Grass seed & fertilizer	0.07	ac @	\$697.50	per ac =	\$48.82
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TOTAL EROSION CONTROL COSTS = \$48.82

TOTAL PROJECT COST = \$2,497.24

SUMMARY OF CONSTRUCTION COST

Timber Sale: Triple Crown
Road Segment: I to J

Sale Number: FG-341-2024-W00950-01
Construction: 1+65 stations
0.03 miles

PROJECT NO. 1: ROCKED ROAD CONSTRUCTION

CONSTRUCTION

Clearing & grubbing (scatter)	0.19	ac @	\$1,692.00 per ac =	\$321.48
Balanced road construction	1.65	sta @	\$120.00 per sta =	\$198.00
Landing	1	ea @	\$345.40 per ea =	\$345.40
Grade, ditch, & roll	1.65	sta @	\$39.65 per sta =	\$65.42

TOTAL CONSTRUCTION COSTS = \$930.30

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Surfacing rock						
Base rock	3" - 0	\$1.16	\$6.37	\$1.35	107	\$950.16
Landing	3" - 0	\$1.16	\$6.37	\$1.35	180	\$1,598.40
				Subtotal =	287	\$2,548.56

Totals

All Rock =	287
3" - 0	287

TOTAL ROCK COSTS = \$2,548.56

EROSION CONTROL

Grass seed & fertilizer	0.10	ac @	\$780.00 per ac =	\$78.00
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TOTAL EROSION CONTROL COSTS = \$78.00

TOTAL PROJECT COST = \$3,556.86

SUMMARY OF CONSTRUCTION COST

Timber Sale: Triple Crown
Road Segment: K to L

Sale Number: FG-341-2024-W00950-01
Construction: 7+05 stations
0.13 miles

PROJECT NO. 1: ROCKED ROAD CONSTRUCTION

CONSTRUCTION

Clearing & grubbing (scatter)	0.81	ac @	\$1,692.00 per ac =	\$1,370.52
Balanced road construction	7.05	sta @	\$120.00 per sta =	\$846.00
Turnaround	1	ea @	\$90.75 per ea =	\$90.75
Landing	1	ea @	\$345.40 per ea =	\$345.40
Grade, ditch, & roll	7.05	sta @	\$39.65 per sta =	\$279.53

TOTAL CONSTRUCTION COSTS = \$2,932.20

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	\$1.16	\$6.37	\$1.35	458	\$4,067.04
Junction	3" - 0	\$1.16	\$6.37	\$1.35	24	\$213.12
Turnaround	3" - 0	\$1.16	\$6.37	\$1.35	20	\$177.60
Landing	3" - 0	\$1.16	\$6.37	\$1.35	180	\$1,598.40
				Subtotal =	682	\$6,056.16

Totals

All Rock =	682
3" - 0	682

TOTAL ROCK COSTS = \$6,056.16

EROSION CONTROL

Grass seed & fertilizer	0.41	ac @	\$780.00 per ac =	\$319.80
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TOTAL EROSION CONTROL COSTS = \$319.80

TOTAL PROJECT COST = \$9,981.66

SUMMARY OF CONSTRUCTION COST

Timber Sale: Triple Crown
Road Segment: M to N

Sale Number: FG-341-2024-W00950-01
Improvement: 28+75 stations
0.54 miles

PROJECT NO. 2: ROAD IMPROVEMENT

IMPROVEMENT

Clearing & grubbing (scatter)	0.34	ac @	\$1,692.00	per acre =	\$575.28
Remove existing culvert	1	ea @	\$165.00	per ea =	\$165.00
Improve turnout	1	ea @	\$36.30	per ea =	\$36.30
Improve turnaround	1	ea @	\$45.38	per ea =	\$45.38
Construct landing	1	ea @	\$242.00	per ea =	\$242.00
Grade, ditch, & roll	28.75	sta @	\$39.65	per sta =	\$1,139.93

TOTAL IMPROVEMENT COSTS = \$2,203.89

CULVERTS

Culverts and Bands					
18" Diameter	140	lf @	\$22.05	per lf =	\$3,087.00
Markers & Stakes					
Culvert markers	5	ea @	\$12.00	per ea =	\$60.00

TOTAL CULVERT COSTS = \$3,147.00

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Subgrade rock						
Bedding and backfill	1½" - 0	\$1.19	\$12.07	\$0.55	96	\$1,325.76
Inlet armor	Riprap	\$25.18	\$9.63	\$1.75	24	\$877.44
Subtotal =					120	\$2,203.20
Surfacing rock						
Surfacing rock	3" - 0	\$1.16	\$7.12	\$1.35	891	\$8,580.33
Spot rock	1½" - 0	\$1.19	\$12.07	\$1.35	48	\$701.28
Junction	3" - 0	\$1.16	\$7.12	\$1.35	24	\$231.12
Turnout	3" - 0	\$1.16	\$7.12	\$1.35	14	\$134.82
Turnaround	3" - 0	\$1.16	\$7.12	\$1.35	10	\$96.30
Curve widening	3" - 0	\$1.16	\$7.12	\$1.35	18	\$173.34
Landing	3" - 0	\$1.16	\$7.12	\$1.35	95	\$914.85
Subtotal =					1,100	\$10,832.04

Totals

All Rock =	1,220
1½" - 0	144
3" - 0	1,052
Riprap	24

TOTAL ROCK COSTS = \$13,035.24

EROSION CONTROL

Grass seed & fertilizer	0.34	ac @	\$697.50	per ac =	\$237.15
Straw mulch bale	4	ea @	\$11.00	per ea =	\$44.00

TOTAL EROSION CONTROL COSTS = \$281.15

TOTAL PROJECT COST = \$18,667.28

SUMMARY OF CONSTRUCTION COST

Timber Sale: Triple Crown
 Road Segment: O to P

Sale Number: FG-341-2024-W00950-01
 Improvement: 3+80 stations
0.07 miles

PROJECT NO. 2: ROAD IMPROVEMENT

IMPROVEMENT

Clearing & grubbing (scatter)	0.05	ac @	\$1,692.00	per acre =	\$84.60
Approach to landing	0.75	sta @	\$120.00	per sta =	\$90.00
Improve landing	1	ea @	\$121.00	per ea =	\$121.00
Grade, ditch, & roll	3.80	sta @	\$39.65	per sta =	\$150.67

TOTAL IMPROVEMENT COSTS = \$446.27

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Surfacing rock						
Surfacing rock	3" - 0	\$1.16	\$7.00	\$1.35	118	\$1,122.18
Approach to landing	3" - 0	\$1.16	\$7.00	\$1.35	23	\$218.73
Landing	3" - 0	\$1.16	\$7.00	\$1.35	94	\$893.94
Subtotal =					235	\$2,234.85

Totals

All Rock =	235
3" - 0	235

TOTAL ROCK COSTS = \$2,234.85

EROSION CONTROL

Grass seed & fertilizer	0.05	ac @	\$697.50	per ac =	\$34.87
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TOTAL EROSION CONTROL COSTS = \$34.87

TOTAL PROJECT COST = \$2,715.99

SUMMARY OF CONSTRUCTION COST

Timber Sale: Triple Crown
Road Segment: Q to R

Sale Number: FG-341-2024-W00950-01
Construction: 2+05 stations
0.04 miles

PROJECT NO. 1: ROCKED ROAD CONSTRUCTION

CONSTRUCTION

Clearing & grubbing (scatter)	0.24	ac @	\$1,692.00 per ac =	\$406.08
Balanced road construction	2.05	sta @	\$120.00 per sta =	\$246.00
Landing	1	ea @	\$242.00 per ea =	\$242.00
Grade, ditch, & roll	2.05	sta @	\$39.65 per sta =	\$81.28

TOTAL CONSTRUCTION COSTS = \$975.36

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	\$1.16	\$8.33	\$1.35	133	\$1,441.72
Junction	3" - 0	\$1.16	\$8.33	\$1.35	24	\$260.16
Landing	3" - 0	\$1.16	\$8.33	\$1.35	95	\$1,029.80
Subtotal =					252	\$2,731.68

Totals	All Rock =	252
	3" - 0	252

TOTAL ROCK COSTS = \$2,731.68

EROSION CONTROL

Grass seed & fertilizer	0.12	ac @	\$780.00 per ac =	\$93.60
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TOTAL EROSION CONTROL COSTS = \$93.60

TOTAL PROJECT COST = \$4,474.14

SUMMARY OF CONSTRUCTION COST

Timber Sale: _____ Timber Sale: _____
Road Segment: _____ V1 to V2 _____

Sale Number: FG-341-2024-W00950-01
Vacating: 20+55 stations
0.39 miles

PROJECT NO. 3: ROAD VACATING

Construct tank trap	2	ea @	\$60.50	per ea =	\$121.00
Construct waterbar	5	ea @	\$30.25	per ea =	\$151.25

TOTAL PROJECT COST = \$272.25

SUMMARY OF CONSTRUCTION COST

Timber Sale: _____ Timber Sale: _____
Road Segment: _____ V3 to V4 _____

Sale Number: FG-341-2024-W00950-01
Vacating: 19+70 stations
0.37 miles

PROJECT NO. 3: ROAD VACATING

Construct tank trap	1	ea @	\$60.50	per ea =	\$60.50
Construct waterbar	5	ea @	\$30.25	per ea =	\$151.25

TOTAL PROJECT COST = \$211.75

SUMMARY OF CONSTRUCTION COST

Timber Sale: _____ Timber Sale: _____
Road Segment: _____ V5 toV6 _____

Sale Number: FG-341-2024-W00950-01
Vacating: 9+30 stations
0.18 miles

PROJECT NO. 3: ROAD VACATING

Construct tank trap	1	ea @	\$60.50	per ea =	\$60.50
Construct waterbar	4	ea @	\$30.25	per ea =	\$121.00

TOTAL PROJECT COST = \$181.50

SUMMARY OF CONSTRUCTION COST

Timber Sale:	Timber Sale:	Sale Number:	FG-341-2024-W00950-01
Road Segment:	V7 to V8	Vacating:	13+20 stations 0.25 miles

PROJECT NO. 3: ROAD VACATING

Construct tank trap	1	ea @	\$60.50	per ea =	\$60.50
Construct waterbar	5	ea @	\$30.25	per ea =	\$151.25

TOTAL PROJECT COST = \$211.75

SUMMARY OF CONSTRUCTION COST

Timber Sale: Triple Crown Sale Number: FG-341-2024-W00950-01

Sale Number: FG-341-2024-W00950-01

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

<u>Equipment</u>	<u>Total</u>
Grader	\$447.95
Roller (smooth/grid) & Compactor	\$428.48
Excavator (Large) - Equipment Cleaning	\$1,859.57
Dozer (Large) - Equipment Cleaning	\$1,859.57
Dump Truck (10cy +)	\$350.10
Water Truck (2,500 Gal)	\$353.49
<u>TOTAL MOVE-IN COSTS =</u>	<u>\$5,299.16</u>

QUARRY DEVELOPMENT & CRUSHING COST SUMMARY

Timber Sale: Triple Crown
Sale Number: FG-341-2024-W00950-01
Stockpile Name: Dunbar Quarry
Riprap: 48 cy (truck measure)
Total truck yardage: 48 cy

<u>Move-in</u>					
Move in excavator					\$1,011.92
Move in Dump Trucks					\$113.10
				Subtotal =	\$1,125.02
				Per CY =	\$23.43/cy
<u>Riprap Base Cost</u>					
Load dump truck	\$1.75	/ cy x	48	cy =	\$84.00
				Subtotal =	\$84.00
				Per CY =	\$1.75
Riprap Cost =				\$25.18/cy	

QUARRY DEVELOPMENT & CRUSHING COST SUMMARY

Timber Sale: Triple Crown
Sale Number: FG-341-2024-W00950-01
Stockpile Name: Camp 5 Stockpile

3" -0: 3,522 cy (truck measure)
Total truck yardage: 3,522 cy

<u>Move-in</u>					
Move in loader					\$816.90
Move in Dump Trucks					\$99.49
				Subtotal =	\$916.39
				Per CY =	\$0.26/cy
<u>3"-0 Base Cost</u>					
Load dump truck	<u>\$0.90</u>	/ cy x	<u>3,522</u>	cy =	\$3,169.80
				Subtotal =	\$3,169.80
				Per CY =	\$0.90

3"-0 Cost = \$1.16/cy

QUARRY DEVELOPMENT & CRUSHING COST SUMMARY

Timber Sale: Triple Crown
Sale Number: FG-341-2024-W00950-01
Stockpile Name: Ingersol Stockpile

1 1/2" - 0: 2,957 cy (truck measure)
Total truck yardage: 2,957 cy

Move-in

Move in loader					\$783.25
Move in Dump Trucks					\$98.67
				Subtotal =	\$881.92
				Per CY =	\$0.29/cy

1 1/2"-0 Base Cost

Load dump truck	\$0.90	/ cy x	2,957	cy =	\$2,661.30
				Subtotal =	\$2,661.30
				Per CY =	\$0.90

1 1/2"-0 Cost = \$1.19/cy

CRUISE REPORT
Triple Crown
#FG-341-2024-W00950-01

1. LOCATION:

Portions of Sections 22, 23, 25, and 26, T3N, R6W, W.M., Tillamook County, Oregon.

2. CRUISE DESIGN:

The timber cruise was designed using an estimated coefficient of variation (CV) of 55%, average stand diameter of 25 inches, sampling error (SE) of 9% and a minimum of 100 grade trees.

3. SAMPLING METHOD:

The Timber Sale Area was cruised in October of 2023 with 37 variable radius grade plots using a 40 BAF prism. Plots were laid out 4 chain x 7 chain grid. Plots falling on or near existing roads or no-harvest areas were offset 1 chain.

4. CRUISE RESULTS:

191 trees were measured and graded producing a standard error of 6.1% on the Douglas-fir Basal Area and 5.5% 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.

7. CRUISERS: The sale was cruised by Shamus Smith, Colton Turner, and Mark Savage.

Prepared by: Mark Savage 10-1-2023

Reviewed by: Mark Savage 10-1-2023
Date

TC PSTATS			PROJECT STATISTICS						PAGE	1	
			PROJECT		TRIPCRN		DATE			10/17/2023	
TWP	RGE	SC	TRACT	TYPE		ACRES		PLOTS	TREES	CuFt	BdFt
T3N	R6	22	00U1	00MC		61.00		16	95	S	W
			PLOTS		TREES	TREES		ESTIMATED TOTAL TREES		PERCENT SAMPLE TREES	
TOTAL			16	95	5.9						
CRUISE			16	95	5.9		3,567		2.7		
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			83	52.3	27.0	119	40.0	207.5	48,749	48,189	9,673
DOUG FIR-S			4	2.9	25.2	65	2.0	10.0			
NOB FIR			6	2.5	33.4	141	2.6	15.0	3,763	3,763	720
WHEMLOCK			2	.8	33.0	107	0.9	5.0	829	829	178
TOTAL			95	58.5	27.3	117	45.5	237.5	53,341	52,782	10,571
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			56.4	6.2	1,341	1,430	1,518				
DOUG FIR-S											
NOB FIR			39.4	17.5	1,362	1,652	1,941				
WHEMLOCK			18.1	17.0	809	975	1,141				
TOTAL			60.1	6.2	1,289	1,374	1,459	144	36	16	
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			50.3	5.5	264	279	295				
DOUG FIR-S											
NOB FIR			31.7	14.1	267	311	355				
WHEMLOCK			29.3	27.4	151	209	266				
TOTAL			54.3	5.6	253	268	283	118	29	13	
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			84.3	21.7	41	52	64				
DOUG FIR-S			193.2	49.8	1	3	4				
NOB FIR			176.5	45.5	1	2	4				
WHEMLOCK			273.8	70.6	0	1	1				
TOTAL			74.7	19.3	47	58	70	237	59	26	
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			36.0	9.3	188	207	227				
DOUG FIR-S			178.9	46.1	5	10	15				
NOB FIR			165.1	42.6	9	15	21				
WHEMLOCK			273.3	70.5	1	5	9				
TOTAL			32.2	8.3	218	237	257	44	11	5	
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			32.1	8.3	44,200	48,189	52,177				
DOUG FIR-S											
NOB FIR			161.0	41.5	2,200	3,763	5,326				
WHEMLOCK			278.7	71.9	233	829	1,426				

TC PSTATS			PROJECT STATISTICS					PAGE	2	
			PROJECT	TRIPCRN			DATE	10/17/2023		
TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt
T3N	R6	22	00U1	00MC		61.00	16	95	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			34.0	8.8	48,146	52,782	57,417	49	12	5
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			32.7	8.4	8,856	9,673	10,490			
DOUG FIR-S										
NOB FIR			164.0	42.3	415	720	1,024			
WHEMLOCK			283.9	73.2	48	178	309			
TOTAL			35.0	9.0	9,617	10,571	11,525	52	13	6

TC		PSPCSTGR		Species, Sort Grade - Board Foot Volumes (Project)																	
TT3N RR6W S22 Ty00MC61.00				Project: TRIPCRN												Page 1					
				Acres 61.00												Date 10/17/2023					
																Time 8:14:16AM					
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														14	13		0.00	7.7
DF			2M	90	1.3	44,190	43,630	2,661			20	80	2	1		98	39	19	626	3.00	69.7
DF			3M	8		3,910	3,910	239		100			1	8	16	75	36	8	96	0.84	40.8
DF			4M	2		649	649	40		100			45	55			20	7	30	0.45	21.7
DF Totals				91	1.1	48,749	48,189	2,940		9	18	73	2	2	1	95	34	14	344	2.03	139.9
DF	S		CU														30	12		0.00	5.2
DF Totals																	30	12		0.00	5.2
NF			CU														18	17		0.00	1.0
NF			2M	95		3,599	3,599	220			17	83				100	40	20	730	3.35	4.9
NF			3M	3		126	126	8		100				20	26	53	34	9	99	1.00	1.3
NF			4M	2		38	38	2		100			47	53			23	7	40	0.68	1.0
NF Totals				7		3,763	3,763	230		4	16	79	0	1	1	97	34	16	464	2.58	8.1
WH			CU														24	12		0.00	.8
WH			2M	98		820	820	50			13	87				100	39	19	635	3.48	1.3
WH			4M	2		9	9	1		100			100				14	8	20	0.64	.4
WH Totals				2		829	829	51		1	13	86	1			99	30	15	328	2.38	2.5
Totals					1.0	53,342	52,782	3,220		9	18	73	2	2	1	95	34	14	339	2.00	155.7

TC		PSTNDSUM		Stand Table Summary										Page		1	
														Date:		10/17/2023	
TT3N RR6W S22 Ty00MC		61.00		Project		TRIPCRN						Time:		8:14:17AM			
				Acres		61.00						Grown Year:					
S Spc	T	Sample		FF 16'	Tot Av Ht	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						Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF	
DF	10	1	85	67	4.584	2.50	4.58	10.8	50.0	1.42	50	229	86	30	14		
DF	11	1	85	67	3.788	2.50	3.79	8.9	40.0	.97	34	152	59	21	9		
DF	14	1	88	91	2.339	2.50	4.68	17.1	75.0	2.29	80	351	139	49	21		
DF	16	1	87	89	1.790	2.50	3.58	22.2	90.0	2.26	79	322	138	48	20		
DF	19	3	87	112	3.809	7.50	8.89	31.2	121.4	7.89	277	1,079	481	169	66		
DF	20	1	88	103	1.146	2.50	2.29	40.1	150.0	2.62	92	344	160	56	21		
DF	21	2	90	127	2.079	5.00	6.24	36.5	166.7	6.49	228	1,039	396	139	63		
DF	22	4	87	110	3.788	10.00	9.47	40.8	168.0	11.00	386	1,591	671	235	97		
DF	23	1	90	117	.866	2.50	2.60	40.6	180.0	3.01	106	468	184	64	29		
DF	24	1	88	131	.796	2.50	2.39	48.4	223.3	3.29	115	533	201	70	33		
DF	26	2	87	133	1.356	5.00	4.07	56.9	263.3	6.60	232	1,071	403	141	65		
DF	28	5	88	133	2.923	12.50	8.77	66.8	324.0	16.69	586	2,841	1,018	357	173		
DF	29	1	89	138	.545	2.50	1.64	76.7	393.3	3.58	125	643	218	77	39		
DF	30	5	86	134	2.546	12.50	7.64	76.5	358.0	16.66	585	2,735	1,016	357	167		
DF	31	8	87	136	3.816	20.00	10.97	85.7	414.3	26.81	941	4,546	1,635	574	277		
DF	32	7	88	148	3.133	17.50	10.74	83.0	426.3	25.42	892	4,579	1,551	544	279		
DF	33	3	89	153	1.263	7.50	3.79	105.5	557.8	11.39	400	2,113	695	244	129		
DF	34	6	87	143	2.379	15.00	7.14	104.5	518.3	21.26	746	3,699	1,297	455	226		
DF	35	4	87	144	1.497	10.00	4.86	98.5	512.3	13.65	479	2,492	833	292	152		
DF	36	3	88	151	1.061	7.50	3.18	109.6	600.0	9.94	349	1,910	606	213	117		
DF	37	5	87	149	1.674	12.50	5.36	113.7	608.7	17.36	609	3,261	1,059	372	199		
DF	38	7	87	137	2.222	17.50	6.35	129.9	681.0	23.50	825	4,323	1,434	503	264		
DF	39	2	88	143	.603	5.00	1.81	137.1	691.7	7.06	248	1,251	431	151	76		
DF	40	2	90	150	.573	5.00	1.72	155.7	841.7	7.63	268	1,447	465	163	88		
DF	41	3	86	155	.818	7.50	2.73	144.6	777.0	11.24	394	2,119	685	241	129		
DF	42	1	90	168	.260	2.50	1.04	142.0	800.0	4.21	148	832	257	90	51		
DF	46	2	89	158	.433	5.00	1.30	208.6	1168.3	7.73	271	1,519	471	165	93		
DF	48	1	89	144	.199	2.50	.60	218.9	1173.3	3.72	131	700	227	80	43		
DF	Totals	83	87	119	52.286	207.50	132.20	73.2	364.5	275.68	9,673	48,189	16,817	5,901	2,940		
NF	30	1	87	131	.509	2.50	1.53	75.6	363.3	2.77	115	555	169	70	34		
NF	31	1	91	149	.477	2.50	1.43	86.1	456.7	2.96	123	653	180	75	40		
NF	32	1	91	122	.448	2.50	1.34	83.0	423.3	2.68	112	568	163	68	35		
NF	33	1	86	136	.421	2.50	1.26	93.7	466.7	2.84	118	589	173	72	36		
NF	35	1	87	163	.374	2.50	1.12	120.6	643.3	3.25	135	722	198	83	44		
NF	44	1	88	152	.237	2.50	.47	244.0	1425.0	2.77	116	675	169	70	41		
NF	Totals	6	88	141	2.466	15.00	7.16	100.5	525.6	17.27	720	3,763	1,053	439	230		
WH	32	1	85	116	.448	2.50	1.34	83.9	366.7	3.61	113	492	220	69	30		
WH	34	1	86	96	.397	2.50	.40	165.4	850.0	2.10	66	337	128	40	21		
WH	Totals	2	85	107	.844	5.00	1.74	102.5	476.8	5.70	178	829	348	109	51		
DF S	20	1	56	25	1.146	2.50											
DF S	26	1	87	78	.678	2.50											
DF S	28	1	88	107	.585	2.50											
DF S	31	1	88	90	.477	2.50											
DF S	Totals	4	75	65	2.886	10.00											
Totals		95	87	117	58.482	237.50	141.10	74.9	374.1	298.66	10,571	52,782	18,218	6,448	3,220		

TC		PLOGSTVB		Log Stock Table - MBF																	
TT3N RR6W S22 Ty00MC61.00				Project:		TRIPCRN										Page		1			
				Acres		0.00										Date		10/17/2023			
																Time		8:14:15AM			
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	40+	
DF		2M	16		25		25	.9										25			
DF		2M	20		16		16	.5										16			
DF		2M	26		11		11	.4										11			
DF		2M	30		5		5	.2					5								
DF		2M	38		2		2	.1					2								
DF		2M	40		2,636	1.3	2,602	88.5					114	259	506	751	866		106		
DF		3M	16		1		1	.0					1								
DF		3M	20		2		2	.1				2									
DF		3M	24		1		1	.0				1									
DF		3M	26		6		6	.2				4	2								
DF		3M	28		1		1	.0				1									
DF		3M	30		10		10	.4			5	3	2								
DF		3M	32		17		17	.6			10	7									
DF		3M	34		22		22	.7			16	6									
DF		3M	36		12		12	.4				7	5								
DF		3M	38		2		2	.1					2								
DF		3M	40		164		164	5.6			20	52	92								
DF		4M	12		3		3	.1			1	1	1								
DF		4M	14		3		3	.1			3										
DF		4M	16		1		1	.0			1										
DF		4M	20		10		10	.4			1	9									
DF		4M	22		8		8	.3			6	2									
DF		4M	24		9		9	.3			9										
DF		4M	26		3		3	.1			3										
DF		4M	30		2		2	.1			2										
DF		Totals			2,974	1.1	2,940	91.3			77	96	105	122	259	506	762	907	106		
NF		2M	40		220		220	95.6							27	24	101	41	27		
NF		3M	30		2		2	.7				2									
NF		3M	32		2		2	.9				2									
NF		3M	40		4		4	1.8					4								
NF		4M	20		1		1	.5				1									
NF		4M	26		1		1	.5			1										
NF		Totals			230		230	7.1			1	5	4		27	24	101	41	27		
WH		2M	36		21		21	40.6									21				
WH		2M	40		29		29	58.3					7				23				

TC		PLOGSTVB		Log Stock Table - MBF															
TT3N RR6W S22 Ty00MC		61.00		Project:		TRIPCRN										Page		2	
				Acres		0.00										Date		10/17/2023	
																Time		8:14:15AM	
S T	So Gr rt de	Log Len	Gross MBF	Def %	Net MBF	% Sp	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+	
WH		4M 14	1		1	1.1				1									
WH		Totals	51		51	1.6				1		7			43				
Total		All Species	3,254	1.0	3,220	100.0			78	101	109	128	286	530	906	948	132		

TC PSTATS				PROJECT STATISTICS				PAGE	1								
				PROJECT	TRIPCRN			DATE	10/17/2023								
TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt							
T3N	R6	22	00U2	00MC		71.00	18	85	S	W							
													TREES	ESTIMATED		PERCENT	
													PER PLOT	TOTAL		SAMPLE	
											PLOTS	TREES	TREES		TREES		
TOTAL			18	85	4.7												
CRUISE			18	85	4.7	4,068	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			75	51.0	24.5	135	33.7	166.7	39,762	39,380	8,229	8,229					
DOUG FIR-S			4	3.7	21.1	88	1.9	8.9									
WHEMLOCK			3	1.5	28.2	142	1.3	6.7	1,681	1,681	349	349					
NOB FIR			3	1.1	33.6	149	1.2	6.7	1,660	1,660	339	339					
TOTAL			85	57.3	24.6	133	38.1	188.9	43,103	42,721	8,917	8,917					
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	7.9	1,107	1,202	1,297											
DOUG FIR-S																	
WHEMLOCK		77.9	53.9	670	1,453	2,237											
NOB FIR		54.3	37.5	1,116	1,787	2,457											
TOTAL		73.0	7.9	1,082	1,175	1,268	213	53	24								
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		60.6	7.0	226	243	260											
DOUG FIR-S																	
WHEMLOCK		69.7	48.2	151	292	433											
NOB FIR		50.4	34.9	235	361	487											
TOTAL		65.6	7.1	221	238	255	172	43	19								
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		72.9	17.7	42	51	60											
DOUG FIR-S		255.1	61.8	1	4	6											
WHEMLOCK		250.0	60.6	1	2	2											
NOB FIR		244.5	59.2	0	1	2											
TOTAL		73.2	17.7	47	57	67	226	57	25								
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		40.5	9.8	150	167	183											
DOUG FIR-S		246.7	59.8	4	9	14											
WHEMLOCK		230.1	55.8	3	7	10											
NOB FIR		230.1	55.8	3	7	10											
TOTAL		38.3	9.3	171	189	206	62	16	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		36.1	8.8	35,931	39,380	42,830											
DOUG FIR-S																	
WHEMLOCK		231.5	56.1	738	1,681	2,623											
NOB FIR		230.3	55.8	734	1,660	2,587											

TC PSTATS				PROJECT STATISTICS				PAGE	2	
				PROJECT	TRIPCRN			DATE	10/17/2023	
TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt
T3N	R6	22	00U2	00MC		71.00	18	85	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			31.4	7.6	39,471	42,721	45,971	42	10	5
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			36.2	8.8	7,506	8,229	8,951			
DOUG FIR-S										
WHEMLOCK			230.3	55.8	154	349	544			
NOB FIR			230.1	55.8	150	339	528			
TOTAL			30.9	7.5	8,250	8,917	9,584	40	10	4

TC		PSPCSTGR		Species, Sort Grade - Board Foot Volumes (Project)																	
TT3N RR6W S22 Ty00MC71.00				Project: TRIPCRN												Page 1					
				Acres 71.00												Date 10/17/2023					
																Time 8:15:58AM					
Spp	S T	So rt	Gr ad	% 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	
					Def%	Gross	Net		4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99					
DF			CU														11	23		0.00	1.0
DF			2M	83	1.1	33,386	33,009	2,344			28	72		0		100	40	17	515	2.53	64.1
DF			3M	16	.1	5,989	5,984	425		100				1	7	92	39	8	99	0.70	60.6
DF			4M	1		387	387	27		100			33	67			22	7	30	0.37	13.1
DF Totals				92	1.0	39,762	39,380	2,796		16	23	61	0	1	1	98	38	12	284	1.58	138.8
DF	S		CU														35	10		0.00	7.3
DF Totals																	35	10		0.00	7.3
WH			2M	93		1,574	1,574	112			18	82				100	40	17	513	2.51	3.1
WH			3M	5		81	81	6		100						100	40	7	91	0.88	.9
WH			4M	2		26	26	2		100				100			30	6	40	0.49	.7
WH Totals				4		1,681	1,681	119		6	17	77		2		98	39	14	365	1.97	4.6
NF			2M	93		1,554	1,554	110			21	79				100	40	20	717	3.42	2.2
NF			3M	7		106	106	8		100						100	40	8	98	0.98	1.1
NF Totals				4		1,660	1,660	118		6	20	74				100	40	16	511	2.61	3.3
Totals					0.9	43,103	42,721	3,033		15	23	62	0	1	1	98	37	12	278	1.55	153.9

TC		PSTNDSUM		Stand Table Summary										Page		1	
														Date:		10/17/2023	
TT3N RR6W S22 Ty00MC				71.00		Project		TRIPCRN		Time:		8:15:59AM					
						Acres		71.00		Grown Year:							
S Spc	T	Sample		Tot		Trees/		Average Log		Net		Net		T o t a l s			
		DBH	Trees	FF 16'	Av Ht	BA/ Acre	Logs Acre	Net Cu.Ft.	Net Bd.Ft.	Tons/ Acre	Cu.Ft. Acre	Bd.Ft. Acre	Tons	Cunits	MBF		
DF		10	1	86	68	4.074	2.22	4.07	10.8	50.0	1.26	44	204	89	31	14	
DF		13	1	89	106	2.411	2.22	4.82	15.2	60.0	2.08	73	289	148	52	21	
DF		15	2	87	125	3.622	4.44	7.24	24.7	107.5	5.10	179	779	362	127	55	
DF		16	2	86	116	3.183	4.44	6.37	25.1	105.0	4.56	160	668	324	114	47	
DF		17	2	87	122	2.820	4.44	5.64	30.7	125.0	4.94	173	705	351	123	50	
DF		18	1	90	141	1.258	2.22	3.77	28.5	130.0	3.07	108	490	218	76	35	
DF		19	2	87	138	2.257	4.44	6.77	30.2	130.0	5.84	205	880	414	145	63	
DF		20	1	88	141	1.019	2.22	3.06	34.7	160.0	3.02	106	489	215	75	35	
DF		21	3	88	143	2.772	6.67	8.32	39.1	183.3	9.28	325	1,524	659	231	108	
DF		23	2	87	143	1.540	4.44	4.62	48.4	225.0	6.38	224	1,040	453	159	74	
DF		24	5	86	142	3.537	11.11	10.61	49.1	217.3	14.86	521	2,306	1,055	370	164	
DF		25	5	87	148	3.259	11.11	9.78	57.7	262.7	16.07	564	2,568	1,141	400	182	
DF		26	2	86	149	1.205	4.44	3.62	61.8	283.3	6.37	224	1,025	453	159	73	
DF		27	5	86	147	2.794	11.11	8.94	63.5	293.1	16.18	568	2,621	1,148	403	186	
DF		28	6	86	156	3.118	13.33	10.39	67.6	333.5	20.03	703	3,466	1,422	499	246	
DF		29	2	85	153	.969	4.44	2.91	78.1	380.0	6.47	227	1,105	459	161	78	
DF		30	2	83	151	.905	4.44	2.72	81.1	375.0	6.28	220	1,019	446	156	72	
DF		31	3	85	145	1.272	6.67	3.82	86.3	401.1	9.38	329	1,531	666	234	109	
DF		32	2	86	156	.796	4.44	2.39	96.4	461.7	6.56	230	1,102	466	163	78	
DF		33	6	85	163	2.245	13.33	7.86	92.0	461.9	20.60	723	3,629	1,463	513	258	
DF		34	4	84	150	1.410	8.89	4.23	104.5	500.8	12.59	442	2,118	894	314	150	
DF		35	5	85	162	1.663	11.11	5.99	101.9	534.4	17.39	610	3,200	1,235	433	227	
DF		36	4	84	153	1.258	8.89	3.77	108.2	532.5	11.64	408	2,009	826	290	143	
DF		37	1	85	171	.298	2.22	1.19	105.9	572.5	3.59	126	682	255	90	48	
DF		38	1	84	166	.282	2.22	1.13	107.3	547.5	3.45	121	618	245	86	44	
DF		41	1	84	152	.242	2.22	.73	154.6	800.0	3.20	112	582	227	80	41	
DF		42	2	84	159	.462	4.44	1.62	145.5	761.4	6.71	235	1,231	476	167	87	
DF		45	1	84	194	.201	2.22	.80	171.4	960.0	3.93	138	773	279	98	55	
DF		53	1	84	175	.145	2.22	.58	222.3	1255.0	3.68	129	728	261	92	52	
DF		Totals	75	86	135	51.017	166.67	137.74	59.7	285.9	234.51	8,229	39,380	16,650	5,842	2,796	
WH		25	2	86	140	1.304	4.44	3.91	58.2	266.7	7.28	227	1,043	517	162	74	
WH		42	1	84	151	.231	2.22	.69	175.6	920.0	3.89	122	637	276	86	45	
WH		Totals	3	86	142	1.535	6.67	4.60	75.8	365.0	11.17	349	1,681	793	248	119	
NF		29	1	85	149	.484	2.22	1.45	77.8	376.7	2.71	113	547	193	80	39	
NF		32	1	83	149	.398	2.22	1.19	93.4	443.3	2.68	111	529	190	79	38	
NF		45	1	84	150	.201	2.22	.60	189.7	966.7	2.75	115	583	195	81	41	
NF		Totals	3	84	149	1.084	6.67	3.25	104.3	510.7	8.14	339	1,660	578	241	118	
DF S		19	1	87	88	1.129	2.22										
DF S		22	3	86	87	2.525	6.67										
DF S		Totals	4	86	88	3.654	8.89										
Totals		85	86	133		57.289	188.89	145.60	61.2	293.4	253.82	8,917	42,721	18,021	6,331	3,033	

Log Stock Table - MBF

TT3N RR6W S22 Ty00MC 71.00

Project: TRIPCRN
Acres 71.00Page 1
Date 10/17/2023
Time 8:15:58AM

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	40+
DF		2M	22		1		1	.0					1							
DF		2M	40		2,369	1.1	2,343	83.8					224	274	724	709	343		70	
DF		3M	28		3		3	.1			3									
DF		3M	30		2		2	.1				2								
DF		3M	32		6		6	.2			6									
DF		3M	34		24		24	.9			20	2	2							
DF		3M	36		14		14	.5			14									
DF		3M	38		12		12	.4			9	2								
DF		3M	40		364		364	13.0			74	89	201							
DF		4M	12		2		2	.1			0	1								
DF		4M	14		3		3	.1			1	1	1							
DF		4M	16		1		1	.0				1								
DF		4M	18		2		2	.1			1	1								
DF		4M	20		2		2	.1				2								
DF		4M	22		2		2	.1			2									
DF		4M	24		1		1	.0				1								
DF		4M	26		5		5	.2			5									
DF		4M	28		7		7	.3			7									
DF		4M	30		3		3	.1			3									
DF		Totals			2,823		2,796	92.2			147	102	203	225	274	724	709	343	70	
WH		2M	40		112		112	93.6					20		49	15			27	
WH		3M	40		6		6	4.8			3		3							
WH		4M	30		2		2	1.6			2									
WH		Totals			119		119	3.9			5		3	20		49	15		27	
NF		2M	40		110		110	93.6						12	11	61			25	
NF		3M	40		8		8	6.4			2	3	3							
NF		Totals			118		118	3.9			2	3	3		12	11	61		25	
Total		All Species			3,060		3,033	100.0			154	104	209	245	286	784	786	343	122	

TC PSTATS				PROJECT STATISTICS				PAGE	1			
				PROJECT	TRIPCRN			DATE	10/17/2023			
TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt		
T3N	R6	22	00U3	00MC		9.00	3	19	S	W		
				TREES		ESTIMATED	PERCENT					
				PER PLOT		TOTAL	SAMPLE					
				PLOTS	TREES	TREES	TREES					
TOTAL			3	19	6.3							
CRUISE			3	19	6.3	504	3.8					
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			19	56.0	28.8	159	47.2	253.3	73,780	72,526	14,154	14,154
TOTAL			19	56.0	28.8	159	47.2	253.3	73,780	72,526	14,154	14,154
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		40.8	9.6	1,482	1,639	1,796						
TOTAL		40.8	9.6	1,482	1,639	1,796	70		18	8		
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		37.3	8.8	288	316	344						
TOTAL		37.3	8.8	288	316	344	59		15	7		
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		19.1	13.2	49	56	63						
TOTAL		19.1	13.2	49	56	63	21		5	2		
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		9.1	6.3	237	253	269						
TOTAL		9.1	6.3	237	253	269	5		1	1		
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		9.0	6.2	68,009	72,526	77,043						
TOTAL		9.0	6.2	68,009	72,526	77,043	5		1	1		
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		10.3	7.1	13,145	14,154	15,163						
TOTAL		10.3	7.1	13,145	14,154	15,163	6		2	1		

TC		PSPCSTGR		Species, Sort Grade - Board Foot Volumes (Project)																	
TT3N RR6W S22 Ty00MC 9.00				Project: TRIPCRN												Page 1					
				Acres 9.00												Date 10/17/2023					
																Time 8:17:44AM					
S So Gr Spp 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	2M	90	1.9	66,903	65,649	591	17		83	100				40	18	593	2.78	110.8			
DF	3M	8		5,983	5,983	54	100			13 87				38	9	112	0.76	53.6			
DF	4M	2		894	894	8	100			74	26			18	7	30	0.50	30.2			
DF Totals		100	1.7	73,780	72,526	653	9	15	75	1	0	1	98	36	14	373	2.02	194.5			
Totals			1.7	73,780	72,526	653	9	15	75	1	0	1	98	36	14	373	2.02	194.5			

TC		PSTNSUM										Stand Table Summary										Page		1	
																						Date:		10/17/2023	
TT3N RR6W S22 Ty00MC					9.00					Project					TRIPCRN					Time:		8:17:45AM			
										Acres					9.00					Grown Year:					
S Spc	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									
DF		15	1	85	115	10.865	13.33	21.73	23.2	105.0	14.36	504	2,282	129	45	21									
DF		24	1	88	153	4.244	13.33	12.73	54.3	256.7	19.71	692	3,268	177	62	29									
DF		25	1	85	179	3.911	13.33	15.65	50.4	245.0	22.45	788	3,833	202	71	34									
DF		26	1	85	141	3.616	13.33	10.85	60.6	273.3	18.74	658	2,965	169	59	27									
DF		28	1	85	166	3.118	13.33	12.47	58.9	300.0	20.94	735	3,742	188	66	34									
DF		29	2	86	173	5.814	26.67	23.25	65.6	341.2	43.46	1,525	7,936	391	137	71									
DF		30	1	87	170	2.716	13.33	10.86	70.5	377.5	21.82	766	4,102	196	69	37									
DF		32	1	86	174	2.387	13.33	9.55	81.2	427.5	22.10	776	4,082	199	70	37									
DF		33	1	86	169	2.245	13.33	8.98	82.4	412.5	21.09	740	3,704	190	67	33									
DF		34	3	85	168	6.344	40.00	25.38	88.3	440.8	63.88	2,241	11,187	575	202	101									
DF		35	2	84	182	3.991	26.67	15.96	99.2	535.0	45.14	1,584	8,541	406	143	77									
DF		37	1	83	186	1.786	13.33	7.14	111.1	577.5	22.61	794	4,125	204	71	37									
DF		38	2	84	180	3.386	26.67	13.54	114.5	606.3	44.19	1,551	8,211	398	140	74									
DF		39	1	84	191	1.607	13.33	6.43	124.8	707.5	22.87	803	4,549	206	72	41									
DF		Totals		19	85	159	56.031	253.33	194.53	72.8	372.8	403.40	14,154	72,526	3,631	1,274	653								
Totals				19	85	159	56.031	253.33	194.53	72.8	372.8	403.40	14,154	72,526	3,631	1,274	653								

TC PLOGSTVB		Log Stock Table - MBF																			
TT3N RR6W S22 Ty00MC		9.00		Project:		TRIPCRN										Page		1			
				Acres		9.00										Date		10/17/2023			
																Time		8:17:43AM			
Spp	S T	So rt	Gr de	Log Len	Gross MBF	Def %	Net MBF	%	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	40		602	1.9	591	90.5						39		37	153	193	168		
DF		3M	32		3		3	.5				1		2							
DF		3M	34		4		4	.6				2	2								
DF		3M	38		6		6	.9				6									
DF		3M	40		41		41	6.3				3	3	35							
DF		4M	12		1		1	.1				1									
DF		4M	14		1		1	.2				1									
DF		4M	16		1		1	.1					1								
DF		4M	18		2		2	.3				1	1								
DF		4M	20		2		2	.2					2								
DF		4M	24		2		2	.3				2									
DF		Totals			664	1.7	653	100.0			14	11	37	39	37	153	193	168			
Total		All Species			664	1.7	653	100.0			14	11	37	39	37	153	193	168			

TC PSTATS				PROJECT STATISTICS				PAGE	1				
				PROJECT	TRIPCRN			DATE	10/17/2023				
TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt			
T3N	R6	22	00U1	00MC		141.00	37	199	S	W			
T3N	R6W	22	00U2	00MC									
T3N	R6W	22	00U3	00MC									
				TREES	ESTIMATED			PERCENT					
				TREES	TOTAL			SAMPLE					
				PLOTS	PER PLOT	TREES	TREES						
TOTAL				37	199	5.4							
CRUISE				37	199	5.4	8,139	2.4					
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				177	51.9	25.9	130	37.3	189.9	45,821	45,307	9,232	9,232
DOUG FIR-S				8	3.1	22.9	78	1.8	8.8				
NOB FIR				9	1.6	33.5	143	1.7	9.8	2,464	2,464	482	482
WHEMLOCK				5	1.1	29.8	130	1.0	5.5	1,205	1,205	253	253
TOTAL				199	57.7	26.1	128	41.9	214.0	49,490	48,976	9,967	9,967
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				59.7	4.5	1,295	1,356	1,416					
DOUG FIR-S													
NOB FIR				41.8	14.8	1,446	1,697	1,947					
WHEMLOCK				67.1	33.3	841	1,262	1,683					
TOTAL				63.5	4.5	1,255	1,314	1,373	161	40	18		
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				53.2	4.0	257	268	279					
DOUG FIR-S													
NOB FIR				37.3	13.2	284	328	371					
WHEMLOCK				59.5	29.6	182	259	335					
TOTAL				57.3	4.1	249	260	270	131	33	15		
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	12.3	45	52	58					
DOUG FIR-S				246.5	40.5	2	3	4					
NOB FIR				215.8	35.4	1	2	2					
WHEMLOCK				276.8	45.5	1	1	2					
TOTAL				71.5	11.7	51	58	65	204	51	23		
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				37.1	6.1	178	190	201					
DOUG FIR-S				222.6	36.6	6	9	12					
NOB FIR				202.9	33.3	7	10	13					
WHEMLOCK				256.5	42.1	3	6	8					
TOTAL				34.8	5.7	202	214	226	48	12	5		
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				33.4	5.5	42,819	45,307	47,794					
DOUG FIR-S													
NOB FIR				199.8	32.8	1,655	2,464	3,273					

TC PSTATS				PROJECT STATISTICS				PAGE	2
				PROJECT TRIPCRN				DATE	10/17/2023
TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
T3N	R6	22	00U1	00MC	141.00	37	199	S	W
T3N	R6W	22	00U2	00MC					
T3N	R6W	22	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
WHEMLOCK			265.2	43.6	680	1,205	1,730		
TOTAL			32.3	5.3	46,376	48,976	51,575	42	10
CL	68.1		COEFF	NET CUFT FT/ACRE			# OF PLOTS REQ.		INF. POP.
SD:	1.0		VAR.%	S.E.%	LOW	AVG	HIGH	5	10
DOUG FIR			33.2	5.5	8,728	9,232	9,735		
DOUG FIR-S									
NOB FIR			201.4	33.1	323	482	641		
WHEMLOCK			264.5	43.4	143	253	363		
TOTAL			32.0	5.3	9,443	9,967	10,490	41	10

TC		PSPCSTGR		Species, Sort Grade - Board Foot Volumes (Project)																	
TT3N RR6W S22 Ty00MC61.00 TT3N RR6W S22 Ty00MC71.00 TT3N RR6W S22 Ty00MC9.00 Project:TRIPCRN Acres141.00 Page1 Date10/17/2023 Time8:19:32AM																					
Spp	S T	So rt	Gr 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														14	15		0.00	3.8
DF			2M	87	1.3	40,199	39,687	5,596			23	77	1	0		99	40	18	571	2.76	69.5
DF			3M	11	.1	5,089	5,087	717		100			0	3	11	86	38	8	99	0.75	51.6
DF			4M	2		533	533	75		100			44	56			21	7	30	0.42	17.9
DF Totals				93	1.1	45,821	45,307	6,388		12	20	68	1	1	1	96	36	13	317	1.80	142.8
DF	S		CU														33	11		0.00	5.9
DF Totals																	33	11		0.00	5.9
NF			CU														18	17		0.00	.4
NF			2M	94		2,340	2,340	330			19	81				100	40	20	726	3.38	3.2
NF			3M	5		108	108	15		100				10	13	76	37	8	98	0.99	1.1
NF			4M	1		17	17	2		100			47	53			23	7	40	0.68	.4
NF Totals				5		2,464	2,464	347		5	18	77	0	1	1	98	36	16	479	2.59	5.1
WH			CU														24	12		0.00	.3
WH			2M	95		1,147	1,147	162			17	83				100	40	18	545	2.76	2.1
WH			3M	3		41	41	6		100						100	40	7	91	0.88	.4
WH			4M	2		17	17	2		100			23	77			24	7	33	0.52	.5
WH Totals				2		1,205	1,205	170		5	16	79	0	1		99	36	14	353	2.07	3.4
Totals					1.0	49,490	48,976	6,906		12	20	68	1	1	1	96	36	13	311	1.77	157.3

TC		PSTNDSUM										Stand Table Summary										Page		1	
																						Date:		10/17/2023	
																						Time:		8:19:33AM	
																						Grown Year:			

TC		PSTNDSUM										Stand Table Summary										Page		2	
																						Date:		10/17/2023	
		TT3N RR6W S22 Ty00MC				61.00		Project				TRIPCRN				Time:		8:19:33AM							
		TT3N RR6W S22 Ty00MC				71.00																			
		TT3N RR6W S22 Ty00MC				9.00		Acres				141.00				Grown Year:									
S		Tot				Average Log			Net			Net			T o t a l s										
Sp		Sample		FF	Av	Trees/	BA/	Logs	Net	Net	Tons/	Cu.Ft.	Bd.Ft.	Tons			Cunits	MBF							
T		DBH	Trees	16'	Ht	Acre	Acre	Acre	Cu.Ft.	Bd.Ft.	Acre	Acre	Acre												
DF S		19	1	87	88	.568	1.12																		
DF S		20	1	56	25	.496	1.08																		
DF S		22	3	86	87	1.272	3.36																		
DF S		26	1	87	78	.293	1.08																		
DF S		28	1	88	107	.253	1.08																		
DF S		31	1	88	90	.206	1.08																		
DF S		Totals	8	82	78	3.088	8.80																		
Totals			199	86	128	57.725	214.03	146.77	67.9	333.7	282.77	9,967	48,976		39,870	14,053	6,906								

TC		PLOGSTVB		Log Stock Table - MBF															
TT3N RR6W S22 Ty00MC61.00 TT3N RR6W S22 Ty00MC71.00 TT3N RR6W S22 Ty00MC9.00				Project: TRIPCRN												Page 1			
				Acres 80.00												Date 10/17/2023			
																Time 8:19:31AM			
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	16		25		25	.4									25		
DF		2M	20		16		16	.2									16		
DF		2M	22		1		1	.0					1						
DF		2M	26		11		11	.2								11			
DF		2M	30		5		5	.1					5						
DF		2M	38		2		2	.0					2						
DF		2M	40		5,608	1.3	5,536	86.7					377	569	1383	1653	1377	175	
DF		3M	16		1		1	.0					1						
DF		3M	20		2		2	.0				2							
DF		3M	24		1		1	.0				1							
DF		3M	26		6		6	.1				4	2						
DF		3M	28		5		5	.1			3	1							
DF		3M	30		12		12	.2			5	5	2						
DF		3M	32		26		26	.4			16	8	2						
DF		3M	34		50		50	.8			38	10	2						
DF		3M	36		26		26	.4			14	7	5						
DF		3M	38		20		20	.3			15	2	2						
DF		3M	40		570		569	8.9			97	145	328						
DF		4M	12		5		5	.1			2	3	1						
DF		4M	14		7		7	.1			6	1	1						
DF		4M	16		3		3	.0			1	1							
DF		4M	18		4		4	.1			2	2							
DF		4M	20		14		14	.2			1	13							
DF		4M	22		10		10	.2			8	2							
DF		4M	24		12		12	.2			11	1							
DF		4M	26		8		8	.1			8								
DF		4M	28		7		7	.1			7								
DF		4M	30		5		5	.1			5								
DF		Totals			6,461	1.1	6,388	92.5			238	209	345	386	569	1383	1664	1418	175
NF		2M	40		330		330	95.0						40	35	162	41	52	
NF		3M	30		2		2	.4			2								
NF		3M	32		2		2	.6			2								
NF		3M	40		12		12	3.3			2	3	7						
NF		4M	20		1		1	.3			1								
NF		4M	26		1		1	.4			1								

TC		PLOGSTVB		Log Stock Table - MBF																	
TT3N RR6W S22 Ty00MC		61.00		Project: TRIPCRN										Page 2							
TT3N RR6W S22 Ty00MC		71.00		Acres 80.00										Date 10/17/2023							
TT3N RR6W S22 Ty00MC		9.00												Time 8:19:31AM							
S T Spp	So rt	Gr de	Log Len	Gross MBF	Def %	Net MBF	%	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+		
NF	Totals			347		347	5.0			4	7	7		40	35	162	41	52			
WH	2M	36		21		21	12.1									21					
WH	2M	40		141		141	83.1					27		49		38	27				
WH	3M	40		6		6	3.4			3		3									
WH	4M	14		1		1	.3					1									
WH	4M	30		2		2	1.1			2											
WH	Totals			170		170	2.5			5	1	3	27	49		59	27				
Total	All Species			6,978	1.0	6,906	100.0			247	216	355	413	609	1467	1885	1459	254			

Volume Summary
(Shown in MBF)
Triple Crown
FG-341-2024-W00950-01
October 2023

UNIT 1: Modified Clearcut (61 Acres)

SPECIES		2 SAW	3 SAW	4 SAW	TOTAL
Douglas-fir	Cruise Volume	2,661	239	40	2,940
	Hidden D&B (2%)	(53)	(5)	(1)	(59)
	NET TOTAL	2,608	234	39	2,881
	% of Total	91	8	1	
Noble fir	Cruise Volume	220	8	2	230
	Hidden D&B (2%)	(4)	(0)	(0)	(4)
	NET TOTAL	216	8	2	226
	% of Total	96	3	1	
Western hemlock	Cruise Volume	50	0	1	51
	Hidden D&B (2%)	(1)	(0)	(0)	(1)
	NET TOTAL	49	0	1	50
	% of Total	98	0	2	

UNIT 2: Modified Clearcut (71 Acres)

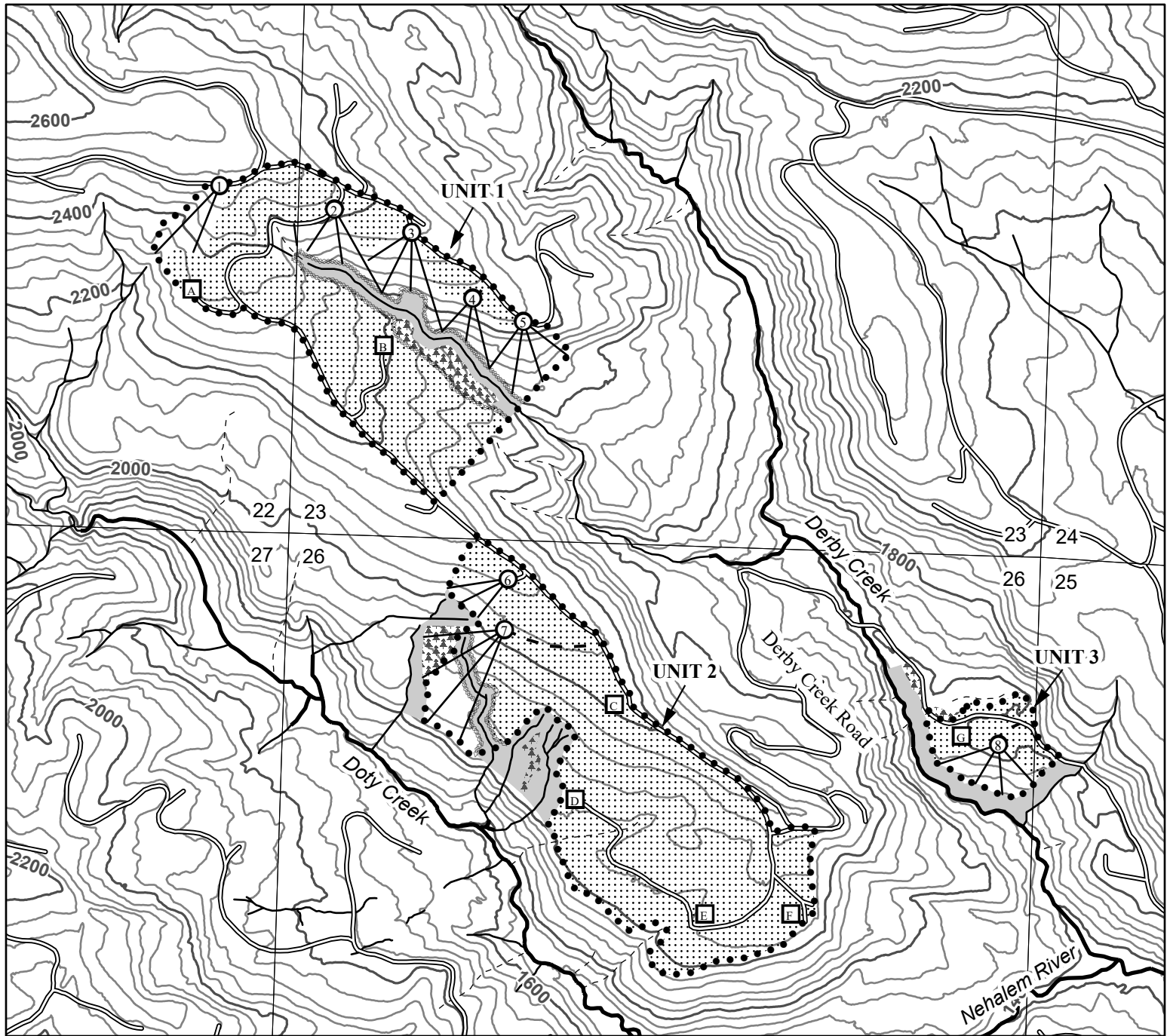
SPECIES		2 SAW	3 SAW	4 SAW	TOTAL
Douglas-fir	Cruise Volume	2,344	425	27	2,796
	Hidden D&B (2%)	(47)	(8)	(1)	(56)
	NET TOTAL	2,297	417	26	2,740
	% of Total	84	15	1	
Noble fir	Cruise Volume	110	8	0	118
	Hidden D&B (2%)	(2)	(0)	(0)	(2)
	NET TOTAL	108	8	0	116
	% of Total	93	7	0	
Western hemlock	Cruise Volume	112	6	2	120
	Hidden D&B (2%)	(2)	(0)	(0)	(2)
	NET TOTAL	110	6	2	118
	% of Total	93	5	2	

UNIT 3: Modified Clearcut (9 Acres)

SPECIES		2 SAW	3 SAW	4 SAW	TOTAL
Douglas-fir	Cruise Volume	591	54	8	653
	Hidden D&B (2%)	(12)	(1)	(0)	(13)
	NET TOTAL	579	53	8	640
	% of Total	88	11	1	

SALE TOTAL

SPECIES	2 SAW	3 SAW	4 SAW	TOTAL
Douglas-fir	5,484	704	73	6,261
Noble fir	324	16	2	342
Western hemlock	159	6	3	168
Total	5,967	726	78	6,771



LEGEND

- ● ● Timber Sale Boundary
- ⋈ Posted Stream Buffer Boundary
- ▬ Surfaced Road
- - - New Road Construction
- ▬ Type-F Stream
- ▬ Type-N Stream - Perennial
- - - Type-N Stream - Seasonal
- ▬ Stream Buffer
- ▬ Cable Yarding Area
- ▬ Tractor Yarding Area
- Cable Landing
- ▬ Tractor Landing
- ▬ Green Tree Retention Area
- ▬ Section Lines
- ▬ 40 Foot Contour Band
- ▬ 200 Foot Contour Band

LOGGING PLAN

FOR TIMBER SALE CONTRACT #FG-341-2023-00950-01
TRIPLE CROWN
PORTIONS OF SECTIONS 22, 23, 25 & 26 T3N, R6W, W.M.,
TILLAMOOK COUNTY, OREGON

Forest Grove District GIS
October 2023

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

