



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Daring Doty
Sale FG-341-2021-W00474-01

District: Forest Grove

Date: October 13, 2020

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$1,947,873.74	\$0.00	\$1,947,873.74
		Project Work:	(\$284,993.07)
		Advertised Value:	\$1,662,880.67



Timber Sale Appraisal Daring Doty Sale FG-341-2021-W00474-01

District: Forest Grove

Date: October 13, 2020

Timber Description

Location: Portions of Sections 21, 22 & 27, T3N, R6W, W.M.,
Tillamook County, Oregon

Stand Stocking: 20%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	26	0	98
Western Hemlock / Fir	21	0	98

Volume by Grade	2S	3S & 4S 6"-11"	Total
Douglas - Fir	3,220	444	3,664
Western Hemlock / Fir	205	45	250
Total	3,425	489	3,914

Comments: Pond Values Used: Local Pond Values, August 2020.

Western redcedar and Other Cedars Stumpage Price = Pond Value minus Logging Cost:
\$913.17/MBF = \$1,125/MBF - \$211.83/MBF

Red Alder and Other Hardwoods Stumpage Price = Pond Value minus Logging Cost:
\$324.17/MBF = \$536.00/MBF - \$211.83/MBF

BRANDING AND PAINTING COST ALLOWANCE = \$2.00/MBF

FUEL COST ALLOWANCE = \$3.00/Gallon

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

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

Other Costs (No Profit & Risk added):
Machine Time to Block/Waterbar Roads, and Skid Trails:
10 hours x \$150/hour = \$1,500
Machine Time to Pile Landing Slash and Sort Firewood:
20 hours x \$150/hour = \$3,000
Equipment Cleaning: 3 pieces x \$1,000/Piece = \$3,000
Slash Disposal: 10 acres x \$200/acre = \$2,000
TOTAL Other Costs (No Profit & Risk added) = \$9,500

ROAD MAINTENANCE
General Road Maintenance(includes move-in,grader,roller): 8.43 miles x \$2,800.10/mile = \$23,604.84
TOTAL Road Maintenance: \$23,604.84/3,914 MBF = \$6.03/MBF



Timber Sale Appraisal
Daring Doty
Sale FG-341-2021-W00474-01

District: Forest Grove

Date: October 13, 2020

Logging Conditions

Combination#: 1 Douglas - Fir 70.92%
 Western Hemlock / Fir 71.00%

Logging System: Cable: Medium Tower >40 - <70 **Process:** Stroke Delimber
yarding distance: Long (1,500 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: \$125.00
machines: Log Loader (A)
 Stroke Delimber (A)
 Tower Yarder (Medium)

Combination#: 2 Douglas - Fir 29.08%
 Western Hemlock / Fir 29.00%

Logging System: Shovel **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: 12 **bd. ft / load:** 4800
cost / mbf: \$55.07
machines: Stroke Delimber (B)



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Daring Doty
Sale FG-341-2021-W00474-01

District: Forest Grove

Date: October 13, 2020

Logging Costs

Operating Seasons: 2.00	Profit Risk: 15%
Project Costs: \$284,993.07	Other Costs (P/R): \$0.00
Slash Disposal: \$0.00	Other Costs: \$9,500.00

Miles of Road

Road Maintenance: \$6.03

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	4.0



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Daring Doty
Sale FG-341-2021-W00474-01

District: Forest Grove

Date: October 13, 2020

Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
Douglas - Fir									
\$104.67	\$6.15	\$2.24	\$67.29	\$0.00	\$27.05	\$0.00	\$2.00	\$2.43	\$211.83
Western Hemlock / Fir									
\$104.72	\$6.15	\$2.24	\$121.12	\$0.00	\$35.13	\$0.00	\$2.00	\$2.43	\$273.79

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$724.49	\$512.66	\$0.00
Western Hemlock / Fir	\$0.00	\$551.74	\$277.95	\$0.00



Timber Sale Appraisal
Daring Doty
Sale FG-341-2021-W00474-01

District: Forest Grove

Date: October 13, 2020

Summary

Amortized

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

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	3,664	\$512.66	\$1,878,386.24
Western Hemlock / Fir	250	\$277.95	\$69,487.50

Gross Timber Sale Value

Recovery: \$1,947,873.74

Prepared By: Mark Savage

Phone: 503-359-7437

TIMBER SALE SUMMARY
Daring Doty
#FG-341-2021-W00474-01

1. **Location:** Portions of Sections 21, 22 & 27, T3N, R6W, W.M., Tillamook County, Oregon.
2. **Type of Sale:** This timber sale is 90 net acres of Modified Clearcut in two units. Unit 1 is 90 acres and Unit 2 is less than 1 acre of Right-of-Way Timber. The timber will be sold on a recovery basis at a sealed bid auction.
3. **Revenue Distribution:** 100% BOF, Tillamook County, Tax Code 56-1.
4. **Sale Acreage:** Acres are net of stream buffers and road prisms. Acreage was determined using ESRI ArcMap GIS software.
5. **Cruise:** The Timber Sale Area was cruised by ODF Cruisers in August of 2020. For more information see Cruise Report.
6. **Timber Description:** The Timber Sale Area consists of an over-stocked 80 year old Douglas-fir stand with minor amounts of western hemlock, western redcedar, true firs, and hardwoods. The stand has an average of 184 ft² of basal area all species, an average Douglas-fir DBH of 26 inches, and an estimated average net Douglas-fir volume of approximately 40.7 MBF per acre.
7. **Topography and Logging Method:** Slopes within the sale areas range from 5% to 70%, and variable in aspect. Unit 1 is 29% ground-based yarding and 71% cable yarding. Unit 2 is 100% ground-based yarding. In Unit 1, the average cable corridor length is approximately 1,200 feet and the maximum is approximately 2,500 feet. The average horizontal skid trail length is approximately 150 feet and the maximum is approximately 300 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 west-bound and continue for approximately 20 miles. Between the mile markers 31 and 32, turn left onto the Salmonberry Road. Proceed on Salmonberry Road for 1.2 miles and turn left onto Section 10 Road. Follow Section 10 Road for 2.1 miles and turn left on Wheeler Road. Proceed for 0.1 miles on Wheeler Road and turn right onto Fire Road 2. Follow Fire Road 2 for 2 miles and turn right onto Giveout Mountain Road. Follow Giveout Mountain Road for approximately 1.3 miles to access the western portion of Unit 1.
9. **Projects:**

Project No. 1: Rocked Road Construction	\$3,810.88
Project No. 2: Road Improvement	\$163,232.65
Project No. 3: Stockpile Construction	\$103,532.69
Project No. 4: Gate Installation	\$14,416.85
Total Credit for all Projects	\$284,993.07

PROJECT COST SUMMARY SHEET

Timber Sale: Daring Doty
Sale Number: FG-341-2021-W00474-01

PROJECT NO. 1: ROCKED ROAD CONSTRUCTION

	Road Segment	Length	Cost
	S to T	2+05	\$3,644.42
		2+05 stations	
		0.04 miles	
Total Rock =			
	24 cy	1½" - 0	
	313 cy	3" - 0	
		Move-in =	\$90.59
TOTAL PROJECT COST =			\$3,735.01

PROJECT NO. 2: ROAD IMPROVEMENT

	Road Segment	Length	Cost
	A to B	110+75	\$61,397.76
	C to D	18+40	\$10,999.97
	E to F	7+60	\$1,526.46
	G to H	5+90	\$3,613.03
	I to J	12+90	\$7,036.74
	K to L	4+00	\$2,676.05
	M to N	12+50	\$8,585.38
	O to P	94+75	\$52,793.28
	Q to R	13+40	\$7,197.11
		280+20 stations	
		5.31 miles	
Total Rock =			
	6,041 cy	1½" - 0	
	2,118 cy	3" - 0	
		Move-in =	\$3,873.23
TOTAL PROJECT COST =			\$159,699.01

PROJECT NO. 3: STOCKPILE CONSTRUCTION

	Rock Size	Stockpile Measure	Cost
	1½" - 0	3,175 cy	\$35,526.99
	3" - 0	5,500 cy	\$69,071.21
Total Rock =			
	3,683 cy	1½" - 0	
	6,380 cy	3" - 0	
		Move-in =	\$2,599.91
TOTAL PROJECT COST =			\$107,198.11

PROJECT NO. 4: GATE INSTALLATION

	Location	Gate Size	Cost
	Point U	20'	\$6,111.41
	Point V	20'	\$6,112.31
Total Rock =			
	12 cy	Boulders	
		Move-in =	\$2,137.22
TOTAL PROJECT COST =			\$14,360.95

TOTAL CREDITS = \$284,993.07

SUMMARY OF CONSTRUCTION COST

Timber Sale: Daring Doty
Road Segment: A to B

Sale Number: FG-341-2021-W00474-01
Improvement: 110+75 stations
2.10 miles

PROJECT NO. 2

IMPROVEMENT

Clearing & grubbing (scatter)	1.28	ac @	\$862.40	per acre =	\$1,103.87
Clean ditch & scatter waste material	110.75	sta @	\$60.00	per sta =	\$6,645.00
Clean culvert inlet & outlet, scatter waste	20	ea @	\$25.00	per ea =	\$500.00
Remove existing culverts	1	ea @	\$150.00	per ea =	\$150.00
Improve Turnouts	7	ea @	\$33.00	per ea =	\$231.00
Grade, ditch, & roll	110.75	sta @	\$36.00	per sta =	\$3,987.00

TOTAL IMPROVEMENT COSTS = \$12,616.87

CULVERTS

Culverts and Bands					
18" Diameter	30	LF @	\$20.00	per LF =	\$600.00
Markers & Stakes					
Culvert Markers	19	ea @	\$10.00	per ea =	\$190.00

TOTAL CULVERT COSTS = \$790.00

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Subgrade rock						
Bedding and backfill	1½" - 0	\$7.99	\$5.66	\$0.50	24	\$339.51
Subtotal =					24	\$339.51
Surfacing rock						
Surfacing rock	1½" - 0	\$7.99	\$3.77	\$1.22	3,433	\$44,550.57
Junction	1½" - 0	\$7.99	\$3.77	\$1.22	120	\$1,557.15
Turnout	1½" - 0	\$7.99	\$3.77	\$1.22	98	\$1,271.67
Subtotal =					3,651	\$47,379.38

Totals	All Rock =	3,675
	1½" - 0 =	3,675

TOTAL ROCK COSTS = \$47,718.89

EROSION CONTROL

Grass seed & fertilizer	0.64	ac @	\$425.00	per ac =	\$272.00
-------------------------	------	------	----------	----------	----------

TOTAL EROSION CONTROL COSTS = \$272.00

TOTAL PROJECT COST = \$61,397.76

SUMMARY OF CONSTRUCTION COST

Timber Sale: Daring Doty
Road Segment: C to D

Sale Number: FG-341-2021-W00474-01
Improvement: 18+40 stations
0.35 miles

PROJECT NO. 2

IMPROVEMENT

Clearing & grubbing (scatter)	0.22	ac @	\$862.40	per acre =	\$189.73
Clean ditch & scatter waste material	18.40	sta @	\$60.00	per sta =	\$1,104.00
Clean culvert inlet & outlet, scatter waste	2	ea @	\$25.00	per ea =	\$50.00
"Y" Junction	1.00	sta @	\$110.00	per sta =	\$110.00
Grade, ditch, & roll	18.40	sta @	\$36.00	per sta =	\$662.40

TOTAL IMPROVEMENT COSTS = \$2,116.13

CULVERTS

Markers & Stakes					
Culvert Markers	1	ea @	\$10.00	per ea =	\$10.00
Additional Installation Cost					
Repair Culvert Outlet	1	hrs @	\$175.00	per hr =	\$175.00

TOTAL CULVERT COSTS = \$185.00

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Surfacing rock						
Surfacing rock	3" -0	\$7.69	\$3.50	\$1.22	601	\$7,461.09
Junction	3" -0	\$7.69	\$3.50	\$1.22	96	\$1,191.00
Subtotal =					697	\$8,652.09

Totals

All Rock =	697
3" - 0 =	697

TOTAL ROCK COSTS = \$8,652.09

EROSION CONTROL

Grass seed & fertilizer	0.11	ac @	\$425.00	per ac =	\$46.75
-------------------------	------	------	----------	----------	---------

TOTAL EROSION CONTROL COSTS = \$46.75

TOTAL PROJECT COST = \$10,999.97

SUMMARY OF CONSTRUCTION COST

Timber Sale: Daring Doty
 Road Segment: E to F

Sale Number: FG-341-2021-W00474-01
 Improvement: 7+60 stations
0.14 miles

PROJECT NO. 2

IMPROVEMENT

Clearing & grubbing (scatter)	0.09	ac @	\$862.40	per acre =	\$77.62
Clean ditch & scatter waste material	7.60	sta @	\$60.00	per sta =	\$456.00
Clean culvert inlet & outlet, scatter waste	1	ea @	\$25.00	per ea =	\$25.00
Improve Roadside Landing	1	ea @	\$82.50	per ea =	\$82.50
Grade, ditch, & roll	7.60	sta @	\$36.00	per sta =	\$273.60

TOTAL IMPROVEMENT COSTS = \$914.72

CULVERTS

Markers & Stakes

Culvert Markers	1	ea @	\$10.00	per ea =	\$10.00
-----------------	---	------	---------	----------	---------

TOTAL CULVERT COSTS = \$10.00

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Surfacing rock						
Roadside landing	3" -0	\$7.69	\$3.49	\$1.22	47	\$582.62
				Subtotal =	47	\$582.62

Totals	All Rock =	47
	3" - 0 =	47

TOTAL ROCK COSTS = \$582.62

EROSION CONTROL

Grass seed & fertilizer	0.05	ac @	\$425.00	per ac =	\$19.13
-------------------------	------	------	----------	----------	---------

TOTAL EROSION CONTROL COSTS = \$19.13

TOTAL PROJECT COST = \$1,526.46

SUMMARY OF CONSTRUCTION COST

Timber Sale: Daring Doty
 Road Segment: G to H

Sale Number: FG-341-2021-W00474-01
 Improvement: 5+90 stations
0.11 miles

PROJECT NO. 2

IMPROVEMENT

Clearing & grubbing (scatter)	0.07	ac @	\$862.40	per acre =	\$60.37
Clean ditch & scatter waste material	5.90	sta @	\$60.00	per sta =	\$354.00
Improve Landing	1	ea @	\$110.00	per ea =	\$110.00
Grade, ditch, & roll	5.90	sta @	\$36.00	per sta =	\$212.40

TOTAL IMPROVEMENT COSTS = \$736.77

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Surfacing rock						
Surfacing rock	3" -0	\$7.69	\$3.54	\$1.22	183	\$2,276.41
Landing	3" -0	\$7.69	\$3.54	\$1.22	47	\$584.97
Subtotal =					230	\$2,861.38

Totals	All Rock =	230
	3" - 0 =	230

TOTAL ROCK COSTS = \$2,861.38

EROSION CONTROL

Grass seed & fertilizer	0.04	ac @	\$425.00	per ac =	\$14.88
-------------------------	------	------	----------	----------	---------

TOTAL EROSION CONTROL COSTS = \$14.88

TOTAL PROJECT COST = \$3,613.03

SUMMARY OF CONSTRUCTION COST

Timber Sale: Daring Doty
Road Segment: I to J

Sale Number: FG-341-2021-W00474-01
Improvement: 12+90 stations
0.24 miles

PROJECT NO. 2

IMPROVEMENT

Clearing & grubbing (scatter)	0.15	ac @	\$862.40	per acre =	\$129.36
Clean culvert inlet & outlet, scatter waste	2	ea @	\$25.00	per ea =	\$50.00
Improve Roadside Landing	1	ea @	\$82.50	per ea =	\$82.50
Grade, ditch, & roll	12.90	sta @	\$36.00	per sta =	\$464.40

TOTAL IMPROVEMENT COSTS = \$726.26

CULVERTS

Markers & Stakes

Culvert Markers	2	ea @	\$10.00	per ea =	\$20.00
-----------------	---	------	---------	----------	---------

TOTAL CULVERT COSTS = \$20.00

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Surfacing rock						
Surfacing rock	3" -0	\$7.69	\$3.74	\$1.22	400	\$5,057.22
Junction	3" -0	\$7.69	\$3.74	\$1.22	48	\$607.02
Landing	3" -0	\$7.69	\$3.74	\$1.22	47	\$594.37
Subtotal =					495	\$6,258.61

Totals

All Rock =	495
3" - 0 =	495

TOTAL ROCK COSTS = \$6,258.61

EROSION CONTROL

Grass seed & fertilizer	0.08	ac @	\$425.00	per ac =	\$31.88
-------------------------	------	------	----------	----------	---------

TOTAL EROSION CONTROL COSTS = \$31.88

TOTAL PROJECT COST = \$7,036.74

SUMMARY OF CONSTRUCTION COST

Timber Sale: Daring Doty
 Road Segment: K to L

Sale Number: FG-341-2021-W00474-01
 Improvement: 4+00 stations
0.08 miles

PROJECT NO. 2

IMPROVEMENT

Clearing & grubbing (scatter)	0.05	ac @	\$862.40	per acre =	\$43.12
Clean ditch & scatter waste material	4.00	sta @	\$60.00	per sta =	\$240.00
Improve Landing	1	ea @	\$110.00	per ea =	\$110.00
Grade, ditch, & roll	4.00	sta @	\$36.00	per sta =	\$144.00

TOTAL IMPROVEMENT COSTS = \$537.12

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Surfacing rock						
Surfacing rock	3" -0	\$7.69	\$3.54	\$1.22	124	\$1,543.33
Landing	3" -0	\$7.69	\$3.54	\$1.22	47	\$584.97
Subtotal =					171	\$2,128.30

Totals	All Rock =	171
	3" - 0 =	171

TOTAL ROCK COSTS = \$2,128.30

EROSION CONTROL

Grass seed & fertilizer	0.03	ac @	\$425.00	per ac =	\$10.63
-------------------------	------	------	----------	----------	---------

TOTAL EROSION CONTROL COSTS = \$10.63

TOTAL PROJECT COST = \$2,676.05

SUMMARY OF CONSTRUCTION COST

Timber Sale: Daring Doty
Road Segment: M to N

Sale Number: FG-341-2021-W00474-01
Improvement: 12+50 stations
0.24 miles

PROJECT NO. 2

IMPROVEMENT

Clearing & grubbing (scatter)	0.15	ac @	\$862.40	per acre =	\$129.36
Clean ditch & scatter waste material	12.50	sta @	\$60.00	per sta =	\$750.00
Clean culvert inlet & outlet, scatter waste	2	ea @	\$25.00	per ea =	\$50.00
Improve Landing	1	ea @	\$157.00	per ea =	\$157.00
Grade, ditch, & roll	12.50	sta @	\$36.00	per sta =	\$450.00

TOTAL IMPROVEMENT COSTS = \$1,536.36

CULVERTS

Culverts and Bands					
18" Diameter	30	LF @	\$20.00	per LF =	\$600.00
Markers & Stakes					
Culvert Markers	3	ea @	\$10.00	per ea =	\$30.00

TOTAL CULVERT COSTS = \$630.00

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Subgrade rock						
Bedding and backfill	1½" - 0	\$7.99	\$5.64	\$0.50	24	\$339.03
				Subtotal =	24	\$339.03
Surfacing rock						
Surfacing rock	3" - 0	\$7.69	\$3.76	\$1.22	388	\$4,908.16
Landing	3" - 0	\$7.69	\$3.76	\$1.22	90	\$1,139.96
				Subtotal =	478	\$6,048.11

Totals	All Rock =	502
	1½" - 0 =	24
	3" - 0 =	478

TOTAL ROCK COSTS = \$6,387.14

EROSION CONTROL

Grass seed & fertilizer	0.08	ac @	\$425.00	per ac =	\$31.88
-------------------------	------	------	----------	----------	---------

TOTAL EROSION CONTROL COSTS = \$31.88

TOTAL PROJECT COST = \$8,585.38

SUMMARY OF CONSTRUCTION COST

Timber Sale: Daring Doty
Road Segment: O to P

Sale Number: FG-341-2021-W00474-01
Improvement: 94+75 stations
1.79 miles

PROJECT NO. 2

IMPROVEMENT

Clearing & grubbing (scatter)	1.09	ac @	\$862.40	per acre =	\$940.02
Clean ditch & scatter waste material	94.75	sta @	\$60.00	per sta =	\$5,685.00
Clean culvert inlet & outlet, scatter waste	19	ea @	\$25.00	per ea =	\$475.00
Cutslope layback					
Excavate & load	1219	cy @	\$1.60	per cy =	\$1,949.63
Haul	1584	cy @	\$1.45	per cy =	\$2,296.91
Shape and compact waste material	1584	cy @	\$0.30	per cy =	\$475.22
Improve "Y" Junction	1.50	sta @	\$110.00	per sta =	\$165.00
Improve Turnouts	2	ea @	\$33.00	per ea =	\$66.00
Construct Turnarounds	1	ea @	\$82.50	per ea =	\$82.50
Approach to landing	2.00	sta @	\$690.00	per sta =	\$1,380.00
Improve Landing	2	ea @	\$110.00	per ea =	\$220.00
Improve Landing	1	ea @	\$157.00	per ea =	\$157.00
Grade, ditch, & roll	94.75	sta @	\$36.00	per sta =	\$3,411.00

TOTAL IMPROVEMENT COSTS = \$17,303.28

CULVERTS

Culverts and Bands					
18" Diameter	80	LF @	\$20.00	per LF =	\$1,600.00
24" Diameter	50	LF @	\$29.00	per LF =	\$1,450.00
36" Diameter	60	LF @	\$50.00	per LF =	\$3,000.00
Markers & Stakes					
Culvert Markers	12	ea @	\$10.00	per ea =	\$120.00

TOTAL CULVERT COSTS = \$6,170.00

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Subgrade rock						
Bedding and backfill	1½" - 0	\$7.99	\$5.10	\$0.50	96	\$1,304.28
				Subtotal =	96	\$1,304.28
Surfacing rock						
Surfacing rock	1½" - 0	\$7.99	\$5.10	\$1.22	1,421	\$20,332.70
Junction	1½" - 0	\$7.99	\$5.10	\$1.22	72	\$1,030.05
Turnout	1½" - 0	\$7.99	\$5.10	\$1.22	14	\$200.29
Turnaround	1½" - 0	\$7.99	\$5.10	\$1.22	8	\$114.45
Curve widening	1½" - 0	\$7.99	\$5.10	\$1.22	293	\$4,198.34
Approach to landing	1½" - 0	\$7.99	\$5.10	\$1.22	30	\$429.19
Landing	1½" - 0	\$7.99	\$5.10	\$1.22	50	\$715.31
Landing	1½" - 0	\$7.99	\$5.10	\$1.22	45	\$643.78
				Subtotal =	1,934	\$27,664.10

Totals

All Rock =	2,030
1½" - 0 =	2,030

TOTAL ROCK COSTS = \$28,968.38

EROSION CONTROL

Grass seed & fertilizer	0.55	ac @	\$425.00	per ac =	\$231.63
Straw Mulch Bale	12	ea @	\$10.00	per ea =	\$120.00

TOTAL EROSION CONTROL COSTS = \$351.63

TOTAL PROJECT COST = \$52,793.28

SUMMARY OF CONSTRUCTION COST

Timber Sale: Daring Doty
Road Segment: Q to R

Sale Number: FG-341-2021-W00474-01
Improvement: 13+40 stations
0.25 miles

PROJECT NO. 2

IMPROVEMENT

Clearing & grubbing (scatter)	0.16	ac @	\$862.40	per acre =	\$137.98
Clean ditch & scatter waste material	13.40	sta @	\$60.00	per sta =	\$804.00
Clean culvert inlet & outlet, scatter waste	1	ea @	\$25.00	per ea =	\$25.00
Construct Settling Ponds	6	ea @	\$25.00	per ea =	\$150.00
Improve Turnouts	1	ea @	\$33.00	per ea =	\$33.00
Construct Turnarounds	1	ea @	\$82.50	per ea =	\$82.50
Improve Landing	1	ea @	\$157.00	per ea =	\$157.00
Grade, ditch, & roll	13.40	sta @	\$36.00	per sta =	\$482.40

TOTAL IMPROVEMENT COSTS = \$1,871.88

CULVERTS

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

TOTAL CULVERT COSTS = \$1,170.00

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Subgrade rock						
Bedding and backfill	1½" - 0	\$7.99	\$7.34	\$0.50	24	\$379.83
Subtotal =					24	\$379.83
Surfacing rock						
Surfacing rock	1½" - 0	\$7.99	\$4.89	\$1.22	201	\$2,833.34
Turnout	1½" - 0	\$7.99	\$4.89	\$1.22	10	\$140.96
Turnaround	1½" - 0	\$7.99	\$4.89	\$1.22	8	\$112.77
Landing	1½" - 0	\$7.99	\$4.89	\$1.22	45	\$634.33
Subtotal =					264	\$3,721.40

Totals	All Rock =	288
	1½" - 0 =	288

TOTAL ROCK COSTS = \$4,101.23

EROSION CONTROL

Grass seed & fertilizer	0.08	ac @	\$425.00	per ac =	\$34.00
Straw Mulch Bale	2	ea @	\$10.00	per ea =	\$20.00

TOTAL EROSION CONTROL COSTS = \$54.00

TOTAL PROJECT COST = \$7,197.11

SUMMARY OF CONSTRUCTION COST

Timber Sale: Daring Doty
Road Segment: S to T

Sale Number: FG-341-2021-W00474-01
Construction: 2+05 stations
0.04 miles

PROJECT NO. 1

CONSTRUCTION

Clearing & grubbing (scatter)	0.24	ac @	\$862.40	per ac =	\$206.98
Balanced road construction	2.05	sta @	\$110.00	per sta =	\$225.50
Landing	1	ea @	\$314.00	per ea =	\$314.00
Grade, ditch, & roll	2.05	sta @	\$36.00	per sta =	\$73.80

TOTAL CONSTRUCTION COSTS = \$820.28

CULVERTS

Culverts and Bands

18" Diameter 40 LF @ \$20.00 per LF = \$800.00

Markers & Stakes

Culvert markers 1 ea @ \$10.00 per ea = \$10.00

TOTAL CULVERT COSTS = \$810.00

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Subgrade rock						
Bedding and backfill	1½" - 0	\$7.99	\$5.00	\$0.50	24	\$323.67
Surfacing rock						
Surfacing rock	3" - 0	\$7.69	\$3.33	\$1.22	133	\$1,630.47
Landing	3" - 0	\$7.69	\$3.33	\$1.22	180	\$2,202.52
Subtotal =					313	\$1,630.47

Totals

All Rock =	337
1½" - 0 =	24
3" - 0 =	313

TOTAL ROCK COSTS = \$1,954.14

EROSION CONTROL

Grass seed & fertilizer 0.12 ac @ \$500.00 per ac = \$60.00

TOTAL EROSION CONTROL COSTS = \$60.00

TOTAL PROJECT COST = \$3,644.42

SUMMARY OF CONSTRUCTION COST

Timber Sale: Daring Doty
 Road Segment: Point U

Sale Number: FG-341-2021-W00474-01

PROJECT NO. 4

GATE CONSTRUCTION

20' Gate, Metal, Paint and Shop Supplies	1	ea @ \$1,960.00	per ea =	\$1,960.00
Cutting, Welding and Painting	16	hr @ \$75.00	per hr =	\$1,200.00

GATE INSTALLATION

Equipment time, Labor & Welding	1	ea @ \$1,200.00	per ea =	\$1,200.00
Painting and Concrete	1	ea @ \$1,725.00	per ea =	\$1,725.00

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Subgrade rock						
Blocking	24"-36"	\$1.43	\$1.37	\$1.60	6	\$26.41
Subtotal =					6	\$26.41

Totals	All Rock =	6
	Boulders =	6

TOTAL ROCK COSTS = \$26.41

TOTAL PROJECT COST = \$6,111.41

SUMMARY OF CONSTRUCTION COST

Timber Sale: Daring Doty
 Road Segment: Point V

Sale Number: FG-341-2021-W00474-01

PROJECT NO. 4

GATE CONSTRUCTION

20' Gate, Metal, Paint and Shop Supplies	1	ea @ \$1,960.00	per ea =	\$1,960.00
Cutting, Welding and Painting	16	hr @ \$75.00	per hr =	\$1,200.00

GATE INSTALLATION

Equipment time, Labor & Welding	1	ea @ \$1,200.00	per ea =	\$1,200.00
Painting and Concrete	1	ea @ \$1,725.00	per ea =	\$1,725.00

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Subgrade rock						
Blocking	24"-36"	\$1.43	\$1.52	\$1.60	6	\$27.31
				Subtotal =	6	\$27.31

Totals

All Rock =	6
Boulders =	6

TOTAL ROCK COSTS = \$27.31

TOTAL PROJECT COST = \$6,112.31

SUMMARY OF CONSTRUCTION COSTTimber Sale: Daring DotySale Number: FG-341-2021-W00474-01**PROJECT NO. 3 STOCKPILE CONSTRUCTION****ROCK**

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement / Processing Cost \$/cy	Total CY SM	Rock Cost
Stockpile rock						
Stockpile	1½" - 0	\$7.99	\$0.56	\$1.10	3,683	\$35,526.99
Stockpile	3" - 0	\$7.69	\$2.04	\$1.10	6,380	\$69,071.21
				Subtotal =	10,063	\$104,598.19

Totals

All Rock =	10,063
1½" - 0 =	3,683
3" - 0 =	6,380

TOTAL PROJECT COST = \$104,598.19

SUMMARY OF CONSTRUCTION COST

Timber Sale: Daring Doty

Sale Number: FG-341-2021-W00474-01

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

<u>Equipment</u>	<u>Total</u>
Grader	\$1,137.22
Roller (smooth/grid) & Compactor	\$677.66
Excavator (Large) - Equipment Cleaning	\$2,137.22
Dozer (Large) - Equipment Cleaning	\$2,181.80
Dump Truck (10cy +)	\$250.25
Water Truck (2,500 Gal)	\$179.58
	<u>TOTAL MOVE-IN COSTS = \$6,563.73</u>

PROJECT No. 4 MOVE-IN & CLEANING COSTS

<u>Equipment</u>	<u>Total</u>
Excavator (Large) - Equipment Cleaning	\$2,137.22
	<u>TOTAL MOVE-IN COSTS = \$2,137.22</u>

QUARRY DEVELOPMENT & CRUSHING COST SUMMARY

Timber Sale: Daring Doty
 Sale Number: FG-341-2021-W00474-01
 Quarry Name: Rock Creek Ridge

1 1/2" - 0: 6,065 cy (truck measure)
 3" - 0: 2,431 cy (truck measure)
 Boulders: 12 ea (truck measure)
 Stockpile (1 1/2"-0): 3,175 cy (stockpile measure)
 Stockpile (3"-0): 5,500 cy (stockpile measure)
 Total truck yardage: 18,571 cy
 Total in place yardage: 14,285 cy
 Swell: 130%
 Compaction: 116%

Move-in & Other Base Cost

Quarry development & overburden removal				\$882.59
Equipment cleaning & move in excavator				\$1,785.21
Equipment cleaning & move in dozer				\$1,777.98
Move in & setup drill				\$432.71
Move in loader				\$698.07
Move in & setup crusher				\$4,264.78
Move in Dump Trucks				\$412.20
Gradation tests	\$71.50 /2,000cy x	<u>10</u>	tests =	\$715.00
Change gradation				\$275.00
Clean up quarry				\$500.00
8 Test Drills & Drill Reports				\$1,056.00
			Subtotal =	<u>\$11,743.54</u>
			Per CY =	<u>\$0.63/cy</u>

1 1/2"-0 Base Cost

Drill & shoot	\$2.80	/ cy x	<u>7,498</u>	cy =	\$20,995.61
Load crusher	\$0.80	/ cy x	<u>9,748</u>	cy =	\$7,798.37
Crush (1 1/2" - 0)	\$3.60	/ cy x	<u>6,065</u>	cy =	\$21,833.87
Crush (Stockpile)	\$3.60	/ cy x	<u>3,683</u>	cy =	\$13,258.80
Load dump truck	\$0.80	/ cy x	<u>9,748</u>	cy =	\$7,798.37
				Subtotal =	<u>\$71,685.02</u>
				Per CY =	<u>\$7.35/cy</u>

3"-0 Base Cost

Drill & shoot	\$2.80	/ cy x	<u>6,778</u>	cy =	\$18,977.43
Load crusher	\$0.80	/ cy x	<u>8,811</u>	cy =	\$7,048.76
Crush (3" - 0)	\$3.30	/ cy x	<u>2,431</u>	cy =	\$8,022.14
Crush (Stockpile)	\$3.30	/ cy x	<u>6,380</u>	cy =	\$21,054.00
Load dump truck	\$0.80	/ cy x	<u>8,811</u>	cy =	\$7,048.76
				Subtotal =	<u>\$62,151.09</u>
				Per CY =	<u>\$7.05/cy</u>

Boulder Base Cost

Load dump truck	\$0.80	/ cy x	<u>12</u>	cy =	\$9.60
				Subtotal =	<u>\$9.60</u>
				Per CY =	<u>\$0.80/cy</u>
				Total =	<u>\$145,589.25</u>

1 1/2"-0 Base Cost = **\$7.99/cy**
 3"-0 Base Cost = **\$7.69/cy**
 Boulder Base Cost = **\$1.43/cy**

CRUISE REPORT
Daring Doty
FG-341-2021-W00474-01

1. LOCATION: Portions of Sections 21, 22, & 27, T3N, R6W, W.M., Tillamook County, Oregon.

2. CRUISE DESIGN:

Pre-cruise evaluation indicated that the stand's average DBH is approximately 25 inches and the coefficient of variation is about 52%. For sales of this size and approximate value, ODF cruise standards require a sampling error of 9% at a 68% confidence level, and a minimum sample size of 100 graded trees. The cruise design chosen for this sale is a variable radius sample plot using a 40 BAF prism.

3. SAMPLING METHOD:

The Timber Sale Area was sampled in August 2020 with 32 variable radius grade plots using a 40 BAF prism. Plots were laid out on a 4 chain x 5 chain grid in Unit 1. Plots falling on or near existing roads or no-harvest areas were offset 1 chain.

4. CRUISE RESULTS:

147 trees were measured and graded producing a cumulative Sampling Error of 6.9% on the Douglas-fir basal area and 6.6% for the Douglas-fir net board foot volume.

5. TREE MEASUREMENT AND GRADING:

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

- a) **Height Standards:** Total tree heights were measured to the nearest foot. Bole heights were calculated to a top DIB of six inches (or 25% of DBH, whichever is larger) for conifers.
- b) **Diameter Standards:** Diameters were measured outside bark at breast height to the nearest inch.
- c) **Form Factors:** Measured for each grade tree using a form point of 16 feet.

6. DATA PROCESSING:

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

7. CRUISERS: The sale was timber cruised by Nate Hunter, Adrian Torres, Kenton Burns, and Mark Savage.

Prepared by: Mark Savage 10/1/2020
Date

Reviewed by: Mark Savage 10/1/2020
Date

TC PSTATS				PROJECT STATISTICS				PAGE	1			
				PROJECT	DARDOT			DATE	9/29/2020			
TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt		
03N	06	21	00U1	00MC		90.00	32	147	S	W		
					TREES	ESTIMATED		PERCENT				
				PLOTS	TREES	PER PLOT	TREES	TREES				
TOTAL			32	147	4.6							
CRUISE			32	147	4.6	4,679		3.1				
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			136	45.3	26.2	147	33.2	170.0	41,855	41,505	8,636	8,636
WHEMLOCK			7	5.7	16.8	77	2.1	8.8	1,445	1,445	339	339
NOB FIR			4	1.0	29.9	152	0.9	5.0	1,400	1,389	269	269
TOTAL			147	52.0	25.5	139	36.4	183.8	44,700	44,339	9,244	9,244
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			38.9	3.3	1,021	1,057	1,092					
WHEMLOCK			87.7	35.7	395	614	833					
NOB FIR			45.9	26.2	1,101	1,493	1,884					
TOTAL			41.9	3.5	1,011	1,047	1,084	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			33.8	2.9	211	217	223					
WHEMLOCK			79.8	32.5	91	134	178					
NOB FIR			37.3	21.3	224	285	346					
TOTAL			36.4	3.0	208	215	221	53	13	6		
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			50.1	8.8	41	45	49					
WHEMLOCK			312.9	55.3	3	6	9					
NOB FIR			280.6	49.6	1	1	2					
TOTAL			50.2	8.9	47	52	57	101	25	11		
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			39.2	6.9	158	170	182					
WHEMLOCK			224.4	39.6	5	9	12					
NOB FIR			268.8	47.5	3	5	7					
TOTAL			36.6	6.5	172	184	196	54	13	6		
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			37.5	6.6	38,755	41,505	44,256					
WHEMLOCK			227.3	40.2	865	1,445	2,025					
NOB FIR			275.4	48.6	713	1,389	2,064					
TOTAL			37.6	6.6	41,393	44,339	47,285	56	14	6		
CL	68.1	COEFF		NET CUFT FT/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH		5	10	15		
DOUG FIR			38.9	6.9	8,043	8,636	9,230					
WHEMLOCK			220.1	38.9	207	339	470					

TC PSTATS				PROJECT STATISTICS				PAGE	2
				PROJECT	DARDOT			DATE	9/29/2020
TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
03N	06	21	00U1	00MC	90.00	32	147	S	W
CL	68.1	COEFF		NET CUFT FT/ACRE			# OF PLOTS REQ.		INF. POP.
SD:	1.00	VAR.	S.E.%	LOW	AVG	HIGH	5	10	15
NOB FIR		271.3	47.9	140	269	398			
TOTAL		37.7	6.7	8,630	9,244	9,859	57	14	6

TC		PSPCSTGR		Species, Sort Grade - Board Foot Volumes (Project)																	
<div>T03N R06W S21 Ty00MC90.00</div>				Project: DARDOT												Page 1					
				Acres 90.00												Date 9/29/2020					
																Time 1:37:55PM					
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		
							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							
WH	2M	71	1,034	1,034	93	28	72						100	40	18	521	2.63	2.0			
WH	3M	21	304	304	27	100						5	5	90	38	8	89	0.76	3.4		
WH	4M	8	107	107	10	100						15	85		24	6	30	0.36	3.5		
WH Totals		3	1,445	1,445	130	28	20	52	1	7	1	91	33	9	162	1.15		8.9			
DF	CU														7	15		0.00	1.4		
DF	2M	87	.9	36,813	36,481	3,283		34	66			1	6	93	39	17	459	2.28	79.4		
DF	3M	11	.4	4,618	4,600	414		100					6	94	39	8	102	0.77	45.0		
DF	4M	2		424	424	38		100				49	51		21	6	26	0.40	16.1		
DF Totals		94	.8	41,855	41,505	3,735		12	30	58	0	2	6	92	37	13	292	1.65	142.0		
NF	2M	93	.8	1,303	1,292	116		18	82					100	40	18	578	2.68	2.2		
NF	3M	5		74	74	7		100						100	40	9	131	0.98	.6		
NF	4M	2		23	23	2		100				67	33		18	7	28	0.50	.8		
NF Totals		3	.8	1,400	1,389	125		7	17	76	1	1		98	35	14	383	2.12	3.6		
Totals			0.8	44,700	44,339	3,991		12	29	58	1	2	6	92	37	13	287	1.64	154.5		

TC		PSTNDSUM		Stand Table Summary										Page		1	
														Date:		9/29/2020	
T03N R06W S21 Ty00MC 90.00				Project		DARDOT		Time:		1:37:56PM							
				Acres		90.00		Grown Year:									
S Sp	T	Tot			Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net		Net	T o t a l s				
		DBH	Sample Trees	FF 16'				Av Ht	Net Cu.Ft.	Net Bd.Ft.	Tons/ Acre		Cu.Ft. Acre	Bd.Ft. Acre	Tons	Cunits	MBF
DF		14	1	88	129	1.169	1.25	2.34	20.0	90.0	1.33	47	210	120	42	19	
DF		18	1	86	115	.707	1.25	1.41	34.1	135.0	1.38	48	191	124	43	17	
DF		20	7	87	135	4.011	8.75	11.46	35.2	154.5	11.48	403	1,770	1,034	363	159	
DF		21	4	86	131	2.079	5.00	6.24	36.1	155.8	6.41	225	972	577	203	87	
DF		22	6	87	140	2.841	7.50	8.52	43.1	197.2	10.48	368	1,681	943	331	151	
DF		23	4	87	146	1.733	5.00	5.20	47.3	213.3	7.00	246	1,109	630	221	100	
DF		24	11	87	149	4.377	13.75	13.93	50.3	232.3	19.96	701	3,235	1,797	630	291	
DF		25	12	86	147	4.400	15.00	13.93	54.1	248.2	21.50	755	3,458	1,935	679	311	
DF		26	13	87	151	4.407	16.25	13.90	60.8	288.8	24.08	845	4,014	2,167	760	361	
DF		27	13	88	153	4.087	16.25	14.15	61.4	304.2	24.75	869	4,304	2,228	782	387	
DF		28	10	87	147	2.923	12.50	9.35	67.7	322.2	18.04	633	3,014	1,624	570	271	
DF		29	12	87	153	3.270	15.00	10.08	76.8	385.7	22.08	775	3,889	1,988	697	350	
DF		30	7	86	148	1.783	8.75	5.35	83.5	411.0	12.72	446	2,198	1,145	402	198	
DF		31	11	86	157	2.623	13.75	8.59	85.3	428.1	20.88	733	3,675	1,879	659	331	
DF		32	8	85	152	1.790	10.00	5.82	87.1	431.2	14.44	507	2,509	1,299	456	226	
DF		33	5	85	152	1.052	6.25	3.37	95.7	473.1	9.19	322	1,593	827	290	143	
DF		34	5	83	156	.991	6.25	3.37	93.7	481.8	9.00	316	1,624	810	284	146	
DF		35	2	83	159	.374	2.50	1.12	115.3	551.7	3.69	129	619	332	116	56	
DF		36	2	86	164	.354	2.50	1.41	97.6	538.8	3.94	138	762	354	124	69	
DF		38	1	84	169	.159	1.25	.63	108.0	572.5	1.95	69	363	176	62	33	
DF		43	1	82	150	.124	1.25	.37	171.2	846.7	1.81	64	315	163	57	28	
DF		Totals	136	87	147	45.255	170.00	140.55	61.4	295.3	246.14	8,636	41,505	22,152	7,773	3,735	
WH		10	1	80	60	2.292	1.25	2.29	11.1	40.0	.82	26	92	73	23	8	
WH		13	1	84	59	1.356	1.25	1.36	22.4	60.0	.97	30	81	87	27	7	
WH		16	1	84	71	.895	1.25	1.79	20.3	65.0	1.16	36	116	105	33	10	
WH		26	1	84	115	.339	1.25	1.02	52.9	210.0	1.72	54	214	155	48	19	
WH		28	2	87	145	.585	2.50	1.75	75.1	376.7	4.21	132	661	379	118	59	
WH		31	1	83	137	.238	1.25	.72	85.5	393.3	1.96	61	281	176	55	25	
WH		Totals	7	83	77	5.705	8.75	8.92	38.0	161.9	10.84	339	1,445	976	305	130	
NF		25	1	87	166	.367	1.25	1.47	49.1	250.0	1.73	72	367	156	65	33	
NF		29	1	83	119	.273	1.25	.82	64.9	276.7	1.27	53	226	115	48	20	
NF		34	1	87	152	.198	1.25	.59	114.9	633.3	1.64	68	377	148	62	34	
NF		35	1	85	174	.187	1.25	.75	101.1	560.0	1.82	76	419	163	68	38	
NF		Totals	4	86	152	1.025	5.00	3.63	74.2	382.8	6.46	269	1,389	581	242	125	
Totals			147	86	139	51.985	183.75	153.10	60.4	289.6	263.44	9,244	44,339	23,709	8,320	3,991	

TC		PLOGSTVB		Log Stock Table - MBF																	
T03N R06W S21 Ty00MC				90.00		Project:		DARDOT		Page		1		Date		9/29/2020		Time		1:37:55PM	
				Acres		90.00															
Spp	S T	So Gr rt de	Log Len	Gross MBF	Def %	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches													
								2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+		
WH		2M	40	93		93	71.6						15	25	53						
WH		3M	28	1		1	1.0			1											
WH		3M	32	1		1	1.0			1											
WH		3M	40	25		25	19.0			7	13	5									
WH		4M	12	1		1	.6			1											
WH		4M	14	1		1	.5			1											
WH		4M	30	8		8	6.3			8											
WH		Totals		130		130	3.3			20	13	5	15	25	53						
DF		2M	24	12		12	.3										12				
DF		2M	26	12		12	.3										12				
DF		2M	28	13		13	.3										13				
DF		2M	32	209	1.6	205	5.5							45	116	45					
DF		2M	36	12		12	.3						12								
DF		2M	40	3,055		3,028	81.1					243	510	1328	860	87					
DF		3M	32	10		10	.3			10											
DF		3M	34	13		13	.4			13											
DF		3M	36	15		15	.4			15											
DF		3M	38	8		8	.2			8											
DF		3M	40	369		368	9.8			48	153	167									
DF		4M	12	1		1	.0			1											
DF		4M	14	4		4	.1			3	1										
DF		4M	16	6		6	.2			5	1										
DF		4M	18	3		3	.1			2	1										
DF		4M	20	4		4	.1			3	1										
DF		4M	22	1		1	.0			1											
DF		4M	24	4		4	.1			4											
DF		4M	26	4		4	.1			4											
DF		4M	28	6		6	.2			6											
DF		4M	30	4		4	.1			4											
DF		Totals		3,767		3,735	93.6			128	157	167	243	523	1372	1001	144				
NF		2M	40	117		116	93.0					5	16	43	13	40					
NF		3M	40	7		7	5.3			4	3										
NF		4M	16	1		1	1.1			1											
NF		4M	24	1		1	.5			1											

TC		PLOGSTVB		Log Stock Table - MBF															
<div>T03N R06W S21 Ty00MC90.00</div>				Project:		DARDOT						Page		2					
				Acres		90.00						Date		9/29/2020					
												Time		1:37:55PM					
Spp	S T	So Gr rt de	Log Len	Gross MBF	Def %	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches											
								2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
NF		Totals		126		125	3.1			1	5	3	5	16	43	13	40		
Total		All Species		4,023		3,991	100.0			149	175	174	248	554	1440	1067	184		

VOLUME SUMMARY
(Volumes in MBF)
Daring Doty
FG-341-2021-W00474-01

October 2020

UNIT 1: MC (90 ACRES)

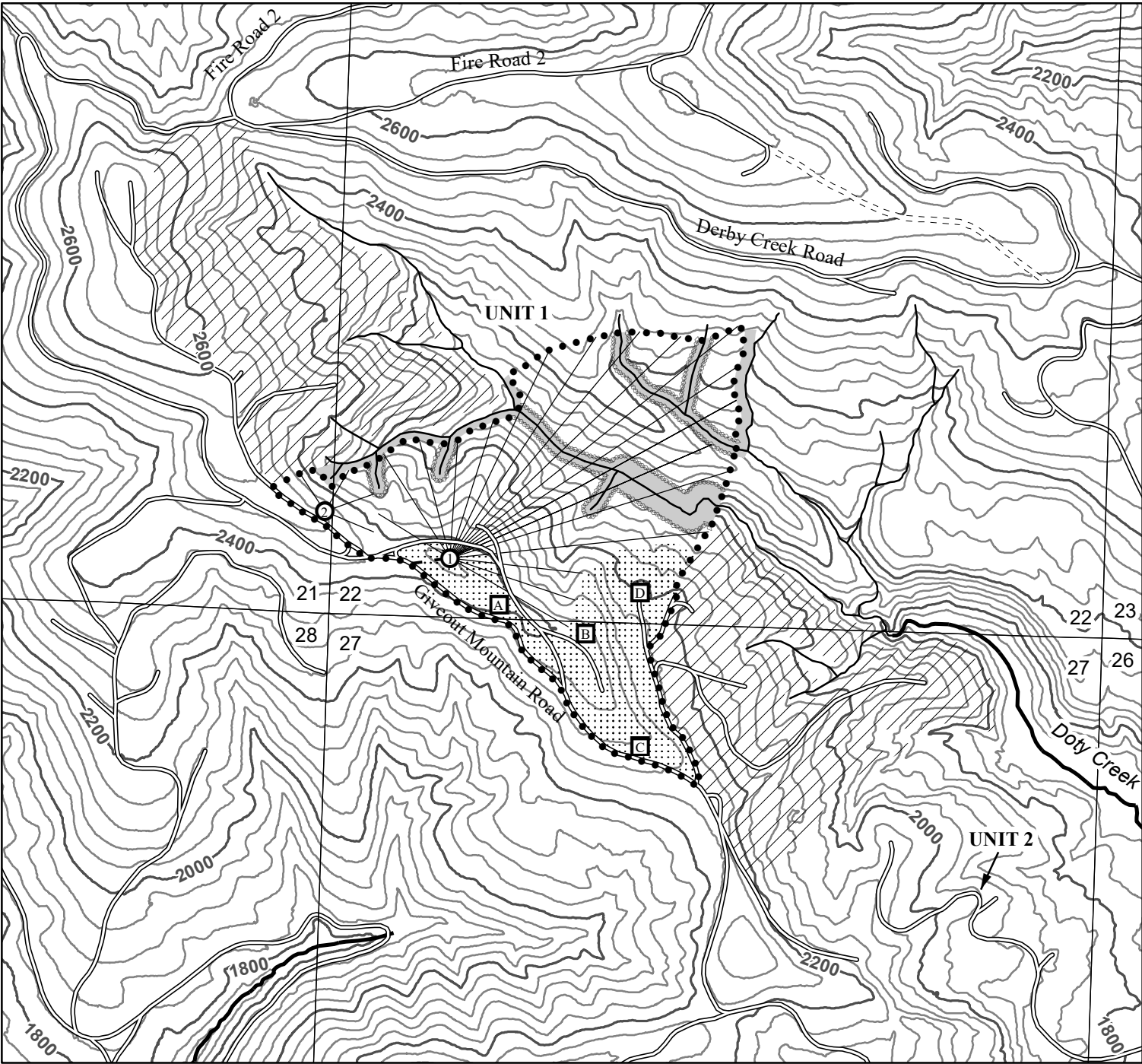
SPECIES		2 SAW	3 SAW	4 SAW	TOTAL
Douglas-fir	Cruise Volume	3,283	414	38	3,735
	Hidden D&B (2%)	(66)	(8)	(1)	(75)
	NET TOTAL	3,217	406	37	3,660
	% of Total	88	11	1	
Western hemlock	Cruise Volume	93	27	10	130
	Hidden D&B (2%)	(2)	(1)	(0)	(3)
	NET TOTAL	91	26	10	127
	% of Total	72	20	8	
Noble fir	Cruise Volume	116	7	2	125
	Hidden D&B (2%)	(2)	(0)	(0)	(2)
	NET TOTAL	114	7	2	123
	% of Total	92	6	2	

UNIT 2: R/W (<1 ACRE)

SPECIES		2 SAW	3 SAW	4 SAW	TOTAL
Douglas-fir	Cruise Volume	3	1	0	4
	Hidden D&B (2%)	(0)	(0)	(0)	(0)
	NET TOTAL	3	1	0	4
	% of Total	75	25	0	

SALE TOTAL

SPECIES	2 SAW	3 SAW	4 SAW	TOTAL
Douglas-fir	3,220	407	37	3,664
Western hemlock	91	26	10	127
Noble fir	114	7	2	123
Total	3,425	440	49	3,914



LEGEND

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

LOGGING PLAN

FOR TIMBER SALE CONTRACT #FG-341-2021-W00474-01
DARING DOTY
PORTIONS OF SECTIONS 21, 22 & 27, T3N, R6W, W.M.,
TILLAMOOK COUNTY, OREGON

Forest Grove District GIS
October, 2020

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

1:12,000
1 inch = 1,000 feet



APPROXIMATE NET ACRES

	TRACTOR	CABLE
UNIT 1	26	64
UNIT 2	<1	0
TOTAL	26	64