



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
North Sun
Sale FG-341-2026-W01162-01

District: Forest Grove

Date: July 21, 2025

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$3,020,109.22	\$0.00	\$3,020,109.22
		Project Work:	(\$176,773.78)
		Advertised Value:	\$2,843,335.44



"STEWARDSHIP IN FORESTRY"

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District: Forest Grove

Date: July 21, 2025

Timber Description

Location:

Stand Stocking: 20%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	22	0	98
Western Hemlock / Fir	28	0	98

Volume by Grade	2S	3S & 4S 6"-11"	Total
Douglas - Fir	4,074	1,411	5,485
Western Hemlock / Fir	72	9	81
Total	4,146	1,420	5,566

Comments: LOCAL POND VALUES, MAY 2025

WESTERN REDCEDAR AND OTHER CEDARS STUMPAGE PRICE = POND VALUE MINUS DOUGLAS-FIR LOGGING COST:

$\$910.39 = \$1,186.00 - \$275.61$

RED ALDER AND OTHER HARDWOODS STUMPAGE PRICE = POND VALUE MINUS DOUGLAS-FIR LOGGING COST:

$\$227.39 = \$503.00 - \$275.61$

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)

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

MACHINE TIME TO BLOCK/WATERBAR ROADS AND SKID TRAILS:

20 HOURS X \$200/HOUR = \$4,000

MACHINE TIME TO PILE LANDING SLASH AND SORT FIREWOOD:

20 HOURS X \$200/HOUR = \$4,000

TOTAL OTHER COSTS (WITH P&R) = \$11,000

OTHER COSTS (NO PROFIT & RISK ADDED): N/A

SLASH TREATMENT: 10 ACRES X \$250/ACRE = \$2,500.00

ROAD MAINTENANCE (INCLUDES MOVE-IN, ROLLING & SPOT ROCKING):

Move-in: \$1,242.25 (A)

General Road Maintenance: 13.75 miles X \$2,409.05 = \$33,124.44 (B)

Total Road Maintenance: \$34,366.69 (C) / 5,566 MBF = \$6.17/MBF



Timber Sale Appraisal
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Logging Conditions

Combination#: 1 Douglas - Fir 89.09%
 Western Hemlock / Fir 87.00%

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: 14 **bd. ft / load:** 4149
cost / mbf: \$137.36
machines: Log Loader (A)
 Stroke Delimber (A)
 Tower Yarder (Medium)

Combination#: 2 Douglas - Fir 10.91%
 Western Hemlock / Fir 13.00%

Logging System: Shovel **Process:** Harvester Head Delimbing
yarding distance: Short (400 ft) **downhill yarding:** No
tree size: Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF
loads / day: 14 **bd. ft / load:** 4650
cost / mbf: \$153.61
machines: Forwarder
 Harvester



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal North Sun Sale FG-341-2026-W01162-01

District: Forest Grove

Date: July 21, 2025

Logging Costs

Operating Seasons: 2.00	Profit Risk: 15%
Project Costs: \$176,773.78	Other Costs (P/R): \$11,000.00
Slash Disposal: \$2,500.00	Other Costs: \$0.00

Miles of Road

Road Maintenance: \$6.17

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
Noble Fir	\$0.00	2.0	4.0



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
North Sun
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District: Forest Grove

Date: July 21, 2025

Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
Douglas - Fir									
\$139.13	\$6.29	\$1.58	\$88.55	\$1.98	\$35.63	\$0.45	\$2.00	\$0.00	\$275.61
Western Hemlock / Fir									
\$139.47	\$6.29	\$1.58	\$159.38	\$1.98	\$46.30	\$0.45	\$2.00	\$0.00	\$357.45

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$823.42	\$547.81	\$0.00
Western Hemlock / Fir	\$0.00	\$547.22	\$189.77	\$0.00



Timber Sale Appraisal
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Date: July 21, 2025

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	5,485	\$547.81	\$3,004,737.85
Western Hemlock / Fir	81	\$189.77	\$15,371.37

Gross Timber Sale Value

Recovery: \$3,020,109.22

Prepared By: Adrian Torres

Phone: 503-357-2191

TIMBER SALE SUMMARY
North Sun
#FG-341-2026-W01162-01

1. **Location:** Portions of Sections 2 & 11, T1S, R6W, W.M., Washington County, Oregon.
2. **Type of Sale:** The Timber Sale Area is 160 acres. It consists of two Clearcut Units. Unit 1 (CC) is 111 acres and Unit 2 (CC) is 49 acres. The timber will be sold on a recovery basis at a sealed bid auction.
3. **Revenue Distribution:** 100% BOF; 100% Washington County.
4. **Sale Acreage:** Acres are net of stream buffers, reserve tree areas, and road prisms. Acreage was determined using ESRI ArcMap GIS Pro software.
5. **Cruise:** The Timber Sale was cruised by ODF Cruisers in May of 2025. For more information, see Cruise Report.
6. **Timber Description:** The Timber Sale Area consists of a well-stocked, 60-70 year-old stand of Douglas-fir with minor components of western hemlock, noble fir, and red alder. This timber stand has an average of 190 ft² of basal area, an average Douglas-fir DBH of 22 inches. The estimated average net Douglas-fir volume is approximately 34.3 MBF per acre.
7. **Topography and Logging Method:** Slopes within the Timber Sale Area range from 5% to 80% with predominantly eastern and south aspects. Unit 1 is 10% ground-based Yarding and 90% cable-based Yarding. Unit 2 is 13% ground-based Yarding and 87% cable-based Yarding. The average horizontal skid trail length is 75 feet and the maximum is approximately 300 feet. The average cable Yarding road length is 500 feet and the maximum is approximately 1,700 feet.
8. **Access:** All access to the Timber Sale Area is on surfaced roads. From Forest Grove, travel 7 miles west on Highway 8 to its intersection with Highway 6. Proceed west onto Highway 6 for approximately 10 miles, then turn left onto Beaverdam Road. Follow Beaverdam Road for approximately 8.6 miles, then turn right on to C-line Road. Follow C-line Road for approximately 2 miles, then turn left on to a spur road connector. Follow spur road connector for approximately 0.1 miles, then turn left on to Seven Cedars Road. Follow Seven Cedars Road for approximately 0.5 miles and turn right on to the 900 Road. Follow the 900 Road for approximately 0.8 miles, then continue straight on to Williams Road. Follow Williams Road for approximately 0.1 miles, turn left on to the Goback Road. Follow the Goback Road for approximately 1.2 miles to access the western portion of Unit 2. To access the western portion of Unit 1, follow the Goback Road for an additional 0.3 miles. Turn left on the second spur road and follow for approximately 0.3 miles.
9. **Projects:**

Project No. 1: Road Improvement, Surface Rock Replacement, and Maintenance	\$134,347.85
Project No. 2: Rocked Road Construction	\$42,425.93
Total Credit for all Projects	\$176,773.78

PROJECT COST SUMMARY SHEET

Timber Sale: North Sun
Sale Number: FG-341-2026-W01162-01

PROJECT NO. 1: ROAD IMPROVEMENT, SURFACE ROCK REPLACEMENT, AND MAINTENANCE

Road Segment	Length	Cost
A to B	382+65	\$113,721.94
B to C	49+45	\$8,420.97
B to L	10+90	\$1,370.34
D to E	8+55	\$1,892.40
F to G	11+75	\$3,331.19
H to I	2+35	\$493.74
J to K	4+90	\$1,174.71
	470+55 stations	
	8.91 miles	
Total Rock =		
3,098 cy	1½" - 0	
471 cy	3" - 0	
108 cy	Riprap	
8 cy	Large Riprap	
	Move-in =	\$3,942.56

TOTAL PROJECT COST = \$134,347.85

PROJECT NO. 2: ROCKED ROAD CONSTRUCTION

Road Segment	Length	Cost
L to M	12+15	\$25,983.20
L to N	5+70	\$7,992.55
O to P	6+50	\$7,205.15
	24+35 stations	
	0.46 miles	
Total Rock =		
226 cy	1½" - 0	
2,626 cy	3" - 0	
	Move-in =	\$1,245.03

TOTAL PROJECT COST = \$42,425.93

TOTAL CREDITS = \$176,773.78

SUMMARY OF CONSTRUCTION COST

Timber Sale: North Sun

Sale Number: FG-341-2026-W01162-01

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

<u>Equipment</u>	<u>Total</u>
Brush Cutter	\$364.05
Grader	\$380.60
Roller & Compactor	\$364.05
Excavator - Equipment Cleaning	\$1,745.36
Dozer - Equipment Cleaning	\$1,745.36
Dump Truck	\$327.88
Water Truck	\$260.29
	<u>TOTAL MOVE-IN COSTS =</u>
	<u>\$5,187.59</u>

SUMMARY OF CONSTRUCTION COST

Timber Sale: North Sun
Road Segment: A to B

Sale Number: FG-341-2026-W01162-01
Improvement: 382+65 stations
7.25 miles

PROJECT NO. 1: ROAD IMPROVEMENT, SURFACE ROCK REPLACEMENT, AND MAINTENANCE

IMPROVEMENT

Clearing & grubbing (scatter)	4.39	ac @	\$1,692.00 per acre =	\$7,427.88
Remove large stump	24	ea @	\$91.00 per ea =	\$2,184.00
Roadside brushing	2.45	mi @	\$935.00 per mi =	\$2,290.57
Road widening (scatter)	169	cy @	\$4.74 per cy =	\$801.06
Road widening (end-haul)				
Excavate & load	220	cy @	\$4.74 per cy =	\$1,042.80
Haul	286	cy @	\$7.54 per cy =	\$2,156.44
Compact waste area	286	cy @	\$0.40 per cy =	\$114.40
Cutslope layback (scatter)	490	cy @	\$4.74 per cy =	\$2,322.60
Clean ditch & end-haul waste material	263.95	sta @	\$66.00 per sta =	\$17,420.70
Haul waste material	1,906	cy @	\$6.61 per cy =	\$12,598.66
Shape and compact waste material	1,906	cy @	\$0.40 per cy =	\$762.40
Clean culvert inlet & outlet, end-haul waste	20	ea @	\$27.50 per ea =	\$550.00
Haul waste material	10	cy @	\$6.61 per cy =	\$66.10
Shape and compact waste material	10	cy @	\$0.40 per cy =	\$4.00
Clean or construct settling pond & end-haul m	27	ea @	\$66.00 per ea =	\$1,782.00
Haul waste material	14	cy @	\$6.61 per cy =	\$92.54
Shape and compact waste material	14	cy @	\$0.40 per cy =	\$5.60
Remove existing culvert	6	ea @	\$165.00 per ea =	\$990.00
Remove flume	6	ea @	\$50.00 per ea =	\$300.00
Move boulder pile	1	ea @	\$150.00 per ea =	\$150.00
Remove existing gate and concrete	1	ea @	\$495.00 per ea =	\$495.00
Construct and install HD gate	1	ea @	\$4,850.00 per ea =	\$4,850.00
Remove metal	3	ea @	\$50.00 per ea =	\$150.00
Construct tank trap	1	ea @	\$61.00 per ea =	\$61.00
Improve turnout	27	ea @	\$36.30 per ea =	\$980.10
Improve turnaround	1	ea @	\$45.50 per ea =	\$45.50
Grade, ditch, & roll	382.65	sta @	\$41.00 per sta =	\$15,688.65

TOTAL IMPROVEMENT COSTS = \$75,332.00

CULVERTS

Culverts & Bands				
18" Diameter	390	lf @	\$22.10 per lf =	\$8,619.00
24" Diameter	40	lf @	\$32.00 per lf =	\$1,280.00
Markers & Stakes				
Culvert markers	54	ea @	\$12.00 per ea =	\$648.00

TOTAL CULVERT COSTS = \$10,547.00

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Subgrade rock						
Bedding and backfill	1½" - 0	\$1.11	\$7.06	\$0.60	312	\$2,736.24
Energy dissipator	Riprap	\$2.03	\$10.59	\$1.80	108	\$1,557.36
Blocking boulders	Large Riprap	\$2.03	\$10.59	\$1.80	8	\$115.36
				Subtotal =	428	\$4,408.96
Surfacing rock						
Surfacing rock	1½" - 0	\$1.11	\$5.14	\$1.40	1,561	\$11,941.65
Spot rock	1½" - 0	\$1.11	\$5.14	\$1.40	800	\$6,120.00
Turnout	1½" - 0	\$1.11	\$5.14	\$1.40	270	\$2,065.50
Turnaround	1½" - 0	\$1.11	\$5.14	\$1.40	20	\$153.00
Curve widening	1½" - 0	\$1.11	\$5.14	\$1.40	12	\$91.80
				Subtotal =	2,663	\$20,371.95

Totals	All Rock =	3,091
	1½" - 0	2,975
	Riprap	108
	Large Riprap	8

TOTAL ROCK COSTS = \$24,780.91

EROSION CONTROL

Grass seed & fertilizer	4.39	ac @	\$697.50 per ac =	\$3,062.03
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TOTAL EROSION CONTROL COSTS = \$3,062.03

TOTAL PROJECT COST = \$113,721.94

SUMMARY OF CONSTRUCTION COST

Timber Sale: North Sun
 Road Segment: B to C

Sale Number: FG-341-2026-W01162-01
 Improvement: 49+45 stations
0.94 miles

PROJECT NO. 1: ROAD IMPROVEMENT, SURFACE ROCK REPLACEMENT, AND MAINTENANCE

IMPROVEMENT

Clearing & grubbing (scatter)	0.57	ac @	\$1,692.00 per acre =	\$964.44
Roadside brushing	0.94	mi @	\$1,100.00 per mi =	\$1,034.00
Clean culvert inlet & outlet, scatter waste	4	ea @	\$27.50 per ea =	\$110.00
Construct turnout	3	ea @	\$72.60 per ea =	\$217.80
Construct turnaround	1	ea @	\$91.00 per ea =	\$91.00
Improve landing	1	ea @	\$172.70 per ea =	\$172.70
Grade, ditch, & roll	49.45	sta @	\$41.00 per sta =	\$2,027.45

TOTAL IMPROVEMENT COSTS = \$4,617.39

CULVERTS

Markers & Stakes				
Culvert markers	5	ea @	\$12.00 per ea =	\$60.00

TOTAL CULVERT COSTS = \$60.00

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Surfacing rock						
Spot rock	3" - 0	\$1.11	\$9.44	\$1.40	50	\$597.50
Turnout	3" - 0	\$1.11	\$9.44	\$1.40	87	\$1,039.65
Turnaround	3" - 0	\$1.11	\$9.44	\$1.40	20	\$239.00
Traction rock	1½" - 0	\$1.11	\$9.44	\$1.40	123	\$1,469.85
				Subtotal =	280	\$3,346.00

Totals	All Rock =	280
	1½" - 0	123
	3" - 0	157

TOTAL ROCK COSTS = \$3,346.00

EROSION CONTROL

Grass seed & fertilizer	0.57	ac @	\$697.50 per ac =	\$397.58
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TOTAL EROSION CONTROL COSTS = \$397.58

TOTAL PROJECT COST = \$8,420.97

SUMMARY OF CONSTRUCTION COST

Timber Sale: North Sun
Road Segment: B to L

Sale Number: FG-341-2026-W01162-01
Improvement: 10+90 stations
0.21 miles

PROJECT NO. 1: ROAD IMPROVEMENT, SURFACE ROCK REPLACEMENT, AND MAINTENANCE

IMPROVEMENT

Clearing & grubbing (scatter)	0.13	ac @	\$1,692.00 per acre =	\$219.96
Roadside brushing	0.21	mi @	\$1,550.00 per mi =	\$319.98
Improve landing	1	ea @	\$172.70 per ea =	\$172.70
Grade, ditch, & roll	10.90	sta @	\$41.00 per sta =	\$446.90

TOTAL IMPROVEMENT COSTS = \$1,159.54

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Surfacing rock						
Spot rock	3" - 0	\$1.11	\$7.50	\$1.40	12	\$120.12
				Subtotal =	12	\$120.12

Totals	All Rock =	12
	3" - 0	12

TOTAL ROCK COSTS = \$120.12

EROSION CONTROL

Grass seed & fertilizer	0.13	ac @	\$697.50 per ac =	\$90.68
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TOTAL EROSION CONTROL COSTS = \$90.68

TOTAL PROJECT COST = \$1,370.34

SUMMARY OF CONSTRUCTION COST

Timber Sale: North Sun
 Road Segment: D to E

Sale Number: FG-341-2026-W01162-01
 Improvement: 8+55 stations
0.16 miles

PROJECT NO. 1: ROAD IMPROVEMENT, SURFACE ROCK REPLACEMENT, AND MAINTENANCE

IMPROVEMENT

Clearing & grubbing (scatter)	0.10	ac @	\$1,692.00 per acre =	\$169.20
Roadside brushing	0.16	mi @	\$1,550.00 per mi =	\$248.00
Construct turnaround	1	ea @	\$91.00 per ea =	\$91.00
Improve landing	1	ea @	\$172.70 per ea =	\$172.70
Grade, ditch, & roll	8.55	sta @	\$41.00 per sta =	\$350.55

TOTAL IMPROVEMENT COSTS = \$1,031.45

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Surfacing rock						
Spot rock	3" - 0	\$1.11	\$7.38	\$1.40	60	\$593.40
Turnaround	3" - 0	\$1.11	\$7.38	\$1.40	20	\$197.80
				Subtotal =	80	\$791.20

Totals	All Rock =	80
	3" - 0	80

TOTAL ROCK COSTS = \$791.20

EROSION CONTROL

Grass seed & fertilizer	0.10	ac @	\$697.50 per ac =	\$69.75
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TOTAL EROSION CONTROL COSTS = \$69.75

TOTAL PROJECT COST = \$1,892.40

SUMMARY OF CONSTRUCTION COST

Timber Sale: North Sun
 Road Segment: F to G

Sale Number: FG-341-2026-W01162-01
 Improvement: 11+75 stations
0.22 miles

PROJECT NO. 1: ROAD IMPROVEMENT, SURFACE ROCK REPLACEMENT, AND MAINTENANCE

IMPROVEMENT

Clearing & grubbing (scatter)	0.13	ac @	\$1,692.00 per acre =	\$219.96
Roadside brushing	0.22	mi @	\$1,550.00 per mi =	\$341.00
Construct turnout	2	ea @	\$72.60 per ea =	\$145.20
Construct turnaround	1	ea @	\$91.00 per ea =	\$91.00
Improve landing	1	ea @	\$172.70 per ea =	\$172.70
Grade, ditch, & roll	11.75	sta @	\$41.00 per sta =	\$481.75

TOTAL IMPROVEMENT COSTS = \$1,451.61

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Surfacing rock						
Spot rock	3" - 0	\$1.11	\$7.54	\$1.40	100	\$1,005.00
Turnout	3" - 0	\$1.11	\$7.54	\$1.40	58	\$582.90
Turnaround	3" - 0	\$1.11	\$7.54	\$1.40	20	\$201.00
Subtotal =					178	\$1,788.90

Totals	All Rock =	178
	3" - 0	178

TOTAL ROCK COSTS = \$1,788.90

EROSION CONTROL

Grass seed & fertilizer	0.13	ac @	\$697.50 per ac =	\$90.68
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TOTAL EROSION CONTROL COSTS = \$90.68

TOTAL PROJECT COST = \$3,331.19

SUMMARY OF CONSTRUCTION COST

Timber Sale: North Sun
 Road Segment: H to I

Sale Number: FG-341-2026-W01162-01
 Improvement: 2+35 stations
0.04 miles

PROJECT NO. 1: ROAD IMPROVEMENT, SURFACE ROCK REPLACEMENT, AND MAINTENANCE

IMPROVEMENT

Clearing & grubbing (scatter)	0.03	ac @	\$1,692.00 per acre =	\$50.76
Roadside brushing	0.04	mi @	\$1,550.00 per mi =	\$62.00
Construct turnaround	1	ea @	\$91.00 per ea =	\$91.00
Improve landing	1	ea @	\$172.70 per ea =	\$172.70
Grade, ditch, & roll	2.35	sta @	\$41.00 per sta =	\$96.35

TOTAL IMPROVEMENT COSTS = \$472.81

EROSION CONTROL

Grass seed & fertilizer	0.03	ac @	\$697.50 per ac =	\$20.93
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TOTAL EROSION CONTROL COSTS = \$20.93

TOTAL PROJECT COST = \$493.74

SUMMARY OF CONSTRUCTION COST

Timber Sale: North Sun
 Road Segment: J to K

Sale Number: FG-341-2026-W01162-01
 Improvement: 4+90 stations
0.09 miles

PROJECT NO. 1: ROAD IMPROVEMENT, SURFACE ROCK REPLACEMENT, AND MAINTENANCE

IMPROVEMENT

Clearing & grubbing (scatter)	0.06	ac @	\$1,692.00 per acre =	\$101.52
Roadside brushing	0.09	mi @	\$1,550.00 per mi =	\$139.50
Construct turnaround	1	ea @	\$91.00 per ea =	\$91.00
Improve landing	1	ea @	\$172.70 per ea =	\$172.70
Grade, ditch, & roll	4.90	sta @	\$41.00 per sta =	\$200.90

TOTAL IMPROVEMENT COSTS = \$705.62

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Surfacing rock						
Spot rock	3" - 0	\$1.11	\$7.20	\$1.40	24	\$233.04
Turnaround	3" - 0	\$1.11	\$7.20	\$1.40	20	\$194.20
Subtotal =					44	\$427.24

Totals	All Rock =	44
	3" - 0	44

TOTAL ROCK COSTS = \$427.24

EROSION CONTROL

Grass seed & fertilizer	0.06	ac @	\$697.50 per ac =	\$41.85
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TOTAL EROSION CONTROL COSTS = \$41.85

TOTAL PROJECT COST = \$1,174.71

SUMMARY OF CONSTRUCTION COST

Timber Sale: North Sun
Road Segment: L to M

Sale Number: FG-341-2026-W01162-01
Construction: 12+15 stations
0.23 miles

PROJECT NO. 2: ROCKED ROAD CONSTRUCTION

CONSTRUCTION

Clearing & grubbing (scatter)	1.39	ac @	\$1,692.00 per ac =	\$2,351.88
Balanced road construction	11.40	sta @	\$120.00 per sta =	\$1,368.00
Drift	0.75	sta @	\$198.00 per sta =	\$148.50
Approach to landing	3.75	sta @	\$347.00 per sta =	\$1,301.25
Landing	4	ea @	\$345.40 per ea =	\$1,381.60
Grade, ditch, & roll	12.15	sta @	\$41.00 per sta =	\$498.15

TOTAL CONSTRUCTION COSTS = \$7,049.38

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Surfacing rock						
Surfacing rock	3" - 0	\$1.11	\$7.56	\$1.40	790	\$7,955.30
Junction	3" - 0	\$1.11	\$7.56	\$1.40	72	\$725.04
Approach to landing	3" - 0	\$1.11	\$7.56	\$1.40	244	\$2,457.08
Landing	3" - 0	\$1.11	\$7.56	\$1.40	720	\$7,250.40
Subtotal =					1,826	\$18,387.82

Totals

All Rock =	1,826
3" - 0	1,826

TOTAL ROCK COSTS = \$18,387.82

EROSION CONTROL

Grass seed & fertilizer	0.70	ac @	\$780.00 per ac =	\$546.00
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TOTAL EROSION CONTROL COSTS = \$546.00

TOTAL PROJECT COST = \$25,983.20

SUMMARY OF CONSTRUCTION COST

Timber Sale: North Sun
Road Segment: L to N

Sale Number: FG-341-2026-W01162-01
Construction: 5+70 stations
0.11 miles

PROJECT NO. 2: ROCKED ROAD CONSTRUCTION

CONSTRUCTION

Clearing & grubbing (scatter)	0.65	ac @	\$1,692.00 per ac =	\$1,099.80
Balanced road construction	5.70	sta @	\$120.00 per sta =	\$684.00
Landing	1	ea @	\$345.40 per ea =	\$345.40
Grade, ditch, & roll	5.70	sta @	\$41.00 per sta =	\$233.70

TOTAL CONSTRUCTION COSTS = \$2,362.90

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Surfacing rock						
Surfacing rock	3" - 0	\$1.11	\$7.24	\$1.40	371	\$3,617.25
Landing	3" - 0	\$1.11	\$7.24	\$1.40	180	\$1,755.00
				Subtotal =	551	\$5,372.25

Totals

All Rock =	551
3" - 0	551

TOTAL ROCK COSTS = \$5,372.25

EROSION CONTROL

Grass seed & fertilizer	0.33	ac @	\$780.00 per ac =	\$257.40
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TOTAL EROSION CONTROL COSTS = \$257.40

TOTAL PROJECT COST = \$7,992.55

SUMMARY OF CONSTRUCTION COST

Timber Sale: North Sun
Road Segment: O to P

Sale Number: FG-341-2026-W01162-01
Construction: 6+50 stations
0.12 miles

PROJECT NO. 2: ROCKED ROAD CONSTRUCTION

CONSTRUCTION

Clearing & grubbing (scatter)	0.75	ac @	\$1,692.00 per ac =	\$1,269.00
Balanced road construction	6.50	sta @	\$120.00 per sta =	\$780.00
Grade, ditch, & roll	6.50	sta @	\$41.00 per sta =	\$266.50

TOTAL CONSTRUCTION COSTS = \$2,315.50

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Surfacing rock						
Base rock	3" - 0	\$1.11	\$7.16	\$1.40	221	\$2,137.07
Surfacing rock	1½" - 0	\$1.11	\$7.16	\$1.40	202	\$1,953.34
Junction Base	3" - 0	\$1.11	\$7.16	\$1.40	28	\$270.76
Junction Surfacing	1½" - 0	\$1.11	\$7.16	\$1.40	24	\$232.08
Subtotal =					475	\$4,593.25

Totals

All Rock =	475
1½" - 0	226
3" - 0	249

TOTAL ROCK COSTS = \$4,593.25

EROSION CONTROL

Grass seed & fertilizer	0.38	ac @	\$780.00 per ac =	\$296.40
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TOTAL EROSION CONTROL COSTS = \$296.40

TOTAL PROJECT COST = \$7,205.15

QUARRY DEVELOPMENT & CRUSHING COST SUMMARY

Timber Sale: North Sun
Sale Number: FG-341-2026-W01162-01
Stockpile Name: Seven Cedars
1 1/2" - 0: 3,324 cy (truck measure)
3" -0: 3,097 cy (truck measure)
Riprap: 108 cy (truck measure)
Boulders: 8 cy (truck measure)
Total truck yardage: 6,537 cy

Move-in

Move in excavator					\$746.67
Move in loader					\$680.00
Move in Dump Trucks					\$90.00
				Subtotal =	\$1,516.67
				Per CY =	\$0.23/cy

1 1/2"-0 & 3"-0 Base Cost

Load dump truck	\$0.90	/ cy x	6,421	cy =	\$5,778.90
				Subtotal =	\$5,778.90
				Per CY =	\$0.88

Riprap & Boulder Base Cost

Load dump truck	\$1.80	/ cy x	116	cy =	\$208.80
				Subtotal =	\$208.80
				Per CY =	\$1.80

1 1/2"-0 Cost = \$1.11/cy
3"-0 Cost = \$1.11/cy
Pit-Rrun Cost = \$2.03/cy
Riprap Cost = \$2.03/cy

CRUISE REPORT
North Sun
#FG-341-2026-W01162-01

1. LOCATION:

Portions of Sections 2 & 11, T1S, R6W, W.M., Washington County, Oregon.

2. CRUISE DESIGN:

The timber cruise was designed using an estimated coefficient of variation (CV) of 57%, average stand diameter of 20 inches, sampling error (SE) of 9% and a minimum of 100 grade trees.

3. SAMPLING METHOD:

The Timber Sale Area was cruised in May of 2025 with 42 variable radius grade plots using a 40 BAF prism. Plots were laid out 5 chain x 6 chain grid. Plots falling on or near existing roads or no-harvest areas were offset 1 chain.

4. CRUISE RESULTS:

203 trees were measured and graded producing a standard error of 5.4% 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 Adrian Torres, Colton Turner, and Mark Savage.

Prepared by: Adrian Torres 05-28-2025

Reviewed by: Mark Savage 05-28-2025
Date

TC PSTATS				PROJECT STATISTICS					PAGE	1
				PROJECT NORTH SUN					DATE	5/27/2025
TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
T1S	R6	02	00U1	00CC	160.00	43	212	S	W	
T1S	R6W	02	00U2	00CC						
				TREES	ESTIMATED	PERCENT				
				PER PLOT	TOTAL	SAMPLE				
				PLOTS	TREES	TREES				
TOTAL				43	212	4.9				
CRUISE				43	212	4.9	12,781	1.7		
DBH COUNT										
REFOREST										
COUNT										
BLANKS										
100 %										
STAND SUMMARY										
SAMPLE				TREES	AVG	BOLE	REL	BASAL	GROSS	NET
TREES				/ACRE	DBH	LEN	DEN	AREA	BF/AC	CF/AC
DOUG FIR				200	72.8	21.7	119	40.1	186.7	35,212
DOUG FIR-S				9	6.4	15.0	47	2.0	7.8	34,992
WHEMLOCK				2	.5	28.0	101	0.4	2.2	7,878
NOB FIR				1	.1	39.0	122	0.2	1.1	88
TOTAL				212	79.9	21.3	113	42.9	197.9	35,749
										35,511
										8,003
										8,003
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		63.8	4.5	623	652	682				
DOUG FIR-S										
WHEMLOCK		15.7	14.7	576	675	774				
NOB FIR										
TOTAL		68.1	4.7	598	627	657		185	46	21
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		56.7	4.0	137	143	149				
DOUG FIR-S										
WHEMLOCK		5.7	5.4	159	168	177				
NOB FIR										
TOTAL		61.3	4.2	132	138	144		150	38	17
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		58.3	8.9	66	73	79				
DOUG FIR-S		295.6	45.0	4	6	9				
WHEMLOCK		458.1	69.8	0	1	1				
NOB FIR		655.7	99.9	0	0	0				
TOTAL		54.8	8.3	73	80	87		120	30	13
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		35.1	5.4	177	187	197				
DOUG FIR-S		286.6	43.7	4	8	11				
WHEMLOCK		458.1	69.8	1	2	4				
NOB FIR		655.7	99.9	0	1	2				
TOTAL		33.8	5.1	188	198	208		46	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		35.9	5.5	33,077	34,992	36,908				
DOUG FIR-S										
WHEMLOCK		461.1	70.3	105	352	599				
NOB FIR		655.7	99.9	0	166	333				

TC PSTATS					PROJECT STATISTICS			PAGE	2	
					PROJECT	NORTHSUN		DATE	5/27/2025	
TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
T1S	R6	02	00U1	00CC	160.00	43	212	S	W	
T1S	R6W	02	00U2	00CC						
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			34.9	5.3	33,620	35,511	37,401	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			34.3	5.2	7,466	7,878	8,289			
DOUG FIR-S										
WHEMLOCK			458.5	69.9	26	88	149			
NOB FIR			655.7	99.9	0	37	75			
TOTAL			33.5	5.1	7,594	8,003	8,412	45	11	5

TC		PSPCSTGR		Species, Sort Grade - Board Foot Volumes (Project)																	
TT1S RR6W S02 Ty00CC111.00 TT1S RR6W S02 Ty00CC49.00				Project: NORTHSUN										Page 1							
				Acres 160.00										Date 5/27/2025							
														Time 2:42:05PM							
Spp	S T	So rt	Gr ad	% Net BdFt	Bd. Ft. per Acre			Total	Percent of Net Board Foot Volume								Average Log				Logs
				Def%	Gross	Net	Net MBF	Log Scale Dia.				Log Length				Ln Ft	Dia In	Bd Ft	CF/ Lf	Per /Acre	
								4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99						
DF			CU														11	11		0.00	5.9
DF			2M	74	.8	26,186	25,985	4,158			50	50	1	0		98	39	15	380	2.02	68.4
DF			3M	22	.2	7,912	7,894	1,263		99	1			1	2	97	39	8	108	0.74	72.8
DF			4M	4		1,114	1,114	178		100			29	44	10	18	23	6	31	0.39	36.4
DF Totals				99	.6	35,212	34,992	5,599		26	37	37	2	2	1	95	35	11	191	1.22	183.5
DF	S		CU														26	7		0.00	8.0
DF Totals																	26	7		0.00	8.0
WH			2M	83		294	294	47				100				100	40	19	565	3.07	.5
WH			3M	17		57	57	9		100						100	40	9	110	1.14	.5
WH Totals				1		352	352	56		16		84				100	40	14	337	2.10	1.0
NF			CU														16	25		0.00	.1
NF			2M	100	10.1	185	166	27			23	77		77		23	35	21	620	3.97	.3
NF Totals				0	10.1	185	166	27			23	77		77		23	29	22	413	3.23	.4
Totals					0.7	35,749	35,511	5,682		25	37	38	2	2	1	95	35	11	184	1.19	193.0

TC		PSTNDSUM		Stand Table Summary									Page		1	
													Date:		5/27/2025	
TT1S RR6W S02 Ty00CC111.00 TT1S RR6W S02 Ty00CC49.00				Project				NORTHSUN				Time:		2:42:06PM		
				Acres				160.00				Grown Year:				
S SpC	T	Tot			Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net		Tons/ Acre	T o t a l s			
		DBH	Sample Trees	FF 16'				Av Ht	Net Cu.Ft.	Net Bd.Ft.	Cu.Ft. Acre		Bd.Ft. Acre	Tons	Cunits	MBF
DF		9	1	88	91	1.963	.87	1.96	10.1	60.0	.56	20	118	90	32	19
DF		11	1	85	101	1.314	.87	2.63	9.7	45.0	.73	26	118	117	41	19
DF		12	2	86	81	2.208	1.73	3.31	15.1	56.7	1.42	50	188	228	80	30
DF		14	1	86	113	.811	.87	1.62	19.2	85.0	.89	31	138	142	50	22
DF		15	4	87	112	2.827	3.47	5.65	22.6	98.8	3.64	128	558	583	204	89
DF		16	6	88	115	4.256	5.94	8.51	26.4	114.0	6.40	224	970	1,023	359	155
DF		17	8	87	114	4.870	7.68	9.74	28.8	118.6	7.99	280	1,156	1,278	448	185
DF		18	10	87	117	5.326	9.41	11.63	32.4	129.8	10.74	377	1,510	1,718	603	242
DF		19	15	87	115	7.107	13.99	16.73	32.9	132.0	15.70	551	2,208	2,513	882	353
DF		20	15	87	113	6.753	14.73	15.61	36.4	149.5	16.20	568	2,334	2,592	910	373
DF		21	13	88	121	4.789	11.52	12.57	38.2	163.3	13.68	480	2,052	2,189	768	328
DF		22	20	88	125	6.944	18.33	19.42	41.0	183.4	22.72	797	3,562	3,635	1,275	570
DF		23	11	89	130	3.392	9.79	10.17	44.0	198.6	12.76	448	2,020	2,041	716	323
DF		24	11	89	129	3.036	9.54	9.11	48.3	220.3	12.53	440	2,007	2,004	703	321
DF		25	15	87	127	4.033	13.75	11.52	51.8	229.8	17.00	596	2,647	2,719	954	424
DF		26	15	88	126	3.729	13.75	10.48	57.4	262.3	17.15	602	2,749	2,744	963	440
DF		27	5	86	122	1.276	5.08	3.55	60.8	262.8	6.16	216	933	985	346	149
DF		28	4	86	128	.811	3.47	2.23	65.4	294.5	4.16	146	657	666	234	105
DF		29	8	85	121	1.781	8.17	4.61	74.0	337.2	9.73	341	1,556	1,557	546	249
DF		30	2	86	123	.353	1.73	1.06	72.0	325.0	2.18	76	344	348	122	55
DF		31	7	86	130	1.299	6.81	3.73	82.9	389.4	8.81	309	1,453	1,410	495	233
DF		32	9	86	133	1.530	8.54	4.59	83.4	392.0	10.91	383	1,799	1,746	613	288
DF		33	1	87	133	.187	1.11	.56	93.2	463.3	1.49	52	261	239	84	42
DF		34	4	86	131	.667	4.21	2.00	96.9	466.0	5.53	194	933	885	311	149
DF		35	3	87	145	.426	2.85	1.28	112.7	576.8	4.11	144	738	657	231	118
DF		36	3	87	142	.438	3.09	1.31	114.7	592.7	4.29	151	778	687	241	125
DF		37	4	85	137	.498	3.72	1.49	114.9	566.7	4.89	172	846	782	275	135
DF		38	1	84	138	.110	.87	.33	124.9	616.7	1.18	41	204	188	66	33
DF		42	1	83	113	.090	.87	.18	188.0	865.0	.97	34	156	155	54	25
DF		Totals	200	87	119	72.825	186.75	177.61	44.4	197.0	224.51	7,878	34,992	35,922	12,604	5,599
WH		28	2	86	101	.521	2.23	1.04	84.2	337.5	2.81	88	352	449	140	56
WH		Totals	2	86	101	.521	2.23	1.04	84.2	337.5	2.81	88	352	449	140	56
NF		39	1	84	122	.134	1.11	.27	139.1	620.0	.90	37	166	143	60	27
NF		Totals	1	84	122	.134	1.11	.27	139.1	620.0	.90	37	166	143	60	27
DF S		10	1	72	35	1.590	.87									
DF S		14	1	61	27	.811	.87									
DF S		15	3	81	56	2.120	2.60									
DF S		16	2	78	41	1.242	1.73									
DF S		21	1	85	60	.361	.87									
DF S		24	1	89	120	.276	.87									
DF S		Totals	9	76	47	6.400	7.80									
Totals			212	86	113	79.880	197.89	178.92	44.7	198.5	228.21	8,003	35,511	36,514	12,804	5,682

TC PLOGSTVB		Log Stock Table - MBF																	
TT1S RR6W S02 Ty00CC 111.00 TT1S RR6W S02 Ty00CC 49.00		Project: NORTH SUN Acres 160.00														Page 1 Date 5/27/2025 Time 2:42:04PM			
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+
DF		2M	16	23	5.9	22	.4					12		9					
DF		2M	20	40	5.6	37	.7							11		12	14		
DF		2M	26	11		11	.2					11							
DF		2M	40	4,117		4,088	73.0					768	906	1541	556	318			
DF		3M	26	3		3	.0				3								
DF		3M	28	13		13	.2			7	6								
DF		3M	31	4		4	.1				4								
DF		3M	32	6		6	.1			2	4								
DF		3M	33	10		10	.2			10									
DF		3M	34	8		8	.1			5	3								
DF		3M	36	5		5	.1			5									
DF		3M	37	19		19	.3			19									
DF		3M	38	12		12	.2			10	2								
DF		3M	39	13		13	.2			11	2								
DF		3M	40	1,174		1,171	20.9			225	321	615	10						
DF		4M	12	2		2	.0			2									
DF		4M	13	5		5	.1			5									
DF		4M	14	9		9	.2			9									
DF		4M	15	3		3	.1			3									
DF		4M	16	11		11	.2			9	1								
DF		4M	17	4		4	.1			4									
DF		4M	18	4		4	.1			4									
DF		4M	19	6		6	.1			5	1								
DF		4M	20	8		8	.1			6	1								
DF		4M	21	5		5	.1			5									
DF		4M	22	15		15	.3			14	1								
DF		4M	23	5		5	.1			5									
DF		4M	24	6		6	.1			6									
DF		4M	25	4		4	.1			4									
DF		4M	26	9		9	.2			9									
DF		4M	27	6		6	.1			6									
DF		4M	28	10		10	.2			10									
DF		4M	29	9		9	.2			9									
DF		4M	30	10		10	.2			10									
DF		4M	31	6		6	.1			6									
DF		4M	33	3		3	.0			3									
DF		4M	34	2		2	.0			2									

TC		PLOGSTVB		Log Stock Table - MBF															
TT1S RR6W S02 Ty00CC111.00 TT1S RR6W S02 Ty00CC49.00				Project:		NORTHSUN								Page		2			
														Date		5/27/2025			
														Time		2:42:04PM			
S	T	So Gr	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		4M	35	6		6	.1			6									
DF		4M	37	29		29	.5			29									
DF		4M	40	2		2	.0			2									
DF		Totals		5,634		5,599	98.5			466	350	615	801	906	1561	568	332		
WH		2M	40	47		47	83.7							47					
WH		3M	40	9		9	16.3			3		6							
WH		Totals		56		56	1.0			3		6		47					
NF		2M	30	23	12.8	20	76.6										20		
NF		2M	40	6		6	23.4							6					
NF		Totals		30	10.1	27	.5							6			20		
Total		All Species		5,720		5,682	100.0			469	350	621	801	912	1608	568	352		

TC PSTATS				PROJECT STATISTICS					PAGE	1		
				PROJECT		NORTHSUN			DATE	5/27/2025		
TWP	RGE	SC	TRACT	TYPE		ACRES		PLOTS	TREES	CuFt	BdFt	
T1S	R6	02	00U1	00CC		111.00		32	155	S	W	
				TREES		ESTIMATED TOTAL		PERCENT SAMPLE				
				PLOTS	TREES	PER PLOT		TREES	TREES			
TOTAL			32	155	4.8							
CRUISE			32	155	4.8		9,268		1.7			
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			146	74.3	21.2	120	39.6	182.5	35,301	35,150	7,868	7,868
DOUG FIR-S			9	9.2	15.0	47	2.9	11.3				
TOTAL			155	83.5	20.6	112	42.7	193.8	35,301	35,150	7,868	7,868
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		60.7		5.0	605		637	669				
DOUG FIR-S												
TOTAL		67.3		5.4	568		600	632		181	45	20
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		54.9		4.5	134		140	146				
DOUG FIR-S												
TOTAL		61.8		5.0	125		132	138		152	38	17
CL	68.1	COEFF		TREES/ACRE					# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%		S.E.%	LOW	AVG	HIGH	5		10	15	
DOUG FIR		65.0		11.5	66		74	83				
DOUG FIR-S		250.9		44.3	5		9	13				
TOTAL		60.6		10.7	75		83	92		147	37	16
CL	68.1	COEFF		BASAL AREA/ACRE					# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%		S.E.%	LOW	AVG	HIGH	5		10	15	
DOUG FIR		33.8		6.0	172		183	193				
DOUG FIR-S		242.9		42.9	6		11	16				
TOTAL		33.6		5.9	182		194	205		45	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		32.3		5.7	33,141		35,150	37,158				
DOUG FIR-S												
TOTAL		32.3		5.7	33,141		35,150	37,158		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		31.4		5.5	7,432		7,868	8,304				
DOUG FIR-S												
TOTAL		31.4		5.5	7,432		7,868	8,304		39	10	4

TC		PSPCSTGR		Species, Sort Grade - Board Foot Volumes (Project)																	
TT1S RR6W S02 Ty00CC 111.00				Project: NORTHSUN												Page 1					
				Acres 111.00												Date 5/27/2025					
																Time 2:36:38PM					
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														11	10		0.00	3.5
DF			2M	73	.5	25,999	25,869	2,871			54	46	1			99	39	15	370	1.95	70.0
DF			3M	23	.3	7,985	7,965	884		99	1			0	2	97	39	8	109	0.73	72.8
DF			4M	4		1,316	1,316	146		100			24	43	12	22	24	6	32	0.38	41.4
DF Totals				100	.4	35,301	35,150	3,902		26	40	34	2	2	1	96	35	10	187	1.18	187.7
DF	S		CU														26	7		0.00	11.6
DF Totals																	26	7		0.00	11.6
Totals					0.4	35,301	35,150	3,902		26	40	34	2	2	1	96	35	10	176	1.13	199.2

TC		PSTNDSUM										Stand Table Summary										Page		1	
																						Date:		5/27/2025	
		TT1S RR6W S02 Ty00CC 111.00										Project NORTHSUN										Time:		2:36:39PM	
												Acres 111.00										Grown Year:			
S Sp	T	Tot			Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net		Tons/ Acre	Cu.Ft. Acre	Net Bd.Ft. Acre	T o t a l s										
		DBH	Sample Trees	FF 16'				Av Ht	Net Cu.Ft.	Net Bd.Ft.	Tons				Cunits	MBF									
DF		9	1	88	91	2.829	1.25	2.83	10.1	60.0	.81	29	170	90	32	19									
DF		11	1	85	101	1.894	1.25	3.79	9.7	45.0	1.05	37	170	117	41	19									
DF		12	2	86	81	3.183	2.50	4.77	15.1	56.7	2.05	72	271	228	80	30									
DF		14	1	86	113	1.169	1.25	2.34	19.2	85.0	1.28	45	199	142	50	22									
DF		15	4	87	112	4.074	5.00	8.15	22.6	98.8	5.25	184	805	583	204	89									
DF		16	3	89	119	2.686	3.75	5.37	27.9	123.3	4.27	150	662	474	166	74									
DF		17	5	87	112	3.965	6.25	7.93	28.1	115.0	6.36	223	912	706	248	101									
DF		18	7	87	118	4.951	8.75	11.32	31.7	128.1	10.21	358	1,450	1,133	398	161									
DF		19	11	88	121	6.983	13.75	18.41	31.1	127.2	16.32	572	2,343	1,811	635	260									
DF		20	8	89	117	4.584	10.00	11.46	35.9	151.0	11.73	412	1,730	1,302	457	192									
DF		21	12	88	120	6.236	15.00	16.11	38.8	165.8	17.81	625	2,671	1,977	694	297									
DF		22	16	88	130	7.576	20.00	21.31	42.6	193.3	25.84	907	4,120	2,869	1,007	457									
DF		23	10	89	132	4.332	12.50	13.00	44.7	202.7	16.56	581	2,634	1,838	645	292									
DF		24	11	89	129	4.377	13.75	13.13	48.3	220.3	18.06	634	2,893	2,004	703	321									
DF		25	12	87	130	4.400	15.00	12.83	52.7	238.6	19.29	677	3,062	2,141	751	340									
DF		26	12	88	128	4.068	15.00	11.19	59.3	275.2	18.91	664	3,078	2,099	737	342									
DF		27	2	86	124	.629	2.50	1.89	56.0	248.3	3.01	106	468	334	117	52									
DF		28	4	86	128	1.169	5.00	3.22	65.4	294.5	6.00	210	947	666	234	105									
DF		29	3	86	132	.818	3.75	2.45	70.0	326.7	4.90	172	801	543	191	89									
DF		30	2	86	123	.509	2.50	1.53	72.0	325.0	3.14	110	497	348	122	55									
DF		31	4	86	129	.954	5.00	2.62	86.1	398.2	6.43	226	1,045	714	251	116									
DF		32	6	86	134	1.343	7.50	4.03	87.8	411.1	10.08	354	1,656	1,119	393	184									
DF		34	1	85	133	.198	1.25	.59	98.0	463.3	1.66	58	276	184	65	31									
DF		35	2	87	145	.374	2.50	1.12	112.3	568.3	3.59	126	638	399	140	71									
DF		36	1	87	136	.177	1.25	.53	110.4	556.7	1.67	59	295	185	65	33									
DF		37	3	84	137	.502	3.75	1.51	113.3	556.7	4.86	171	839	540	189	93									
DF		38	1	84	138	.159	1.25	.48	124.9	616.7	1.69	59	294	188	66	33									
DF		42	1	83	113	.130	1.25	.26	188.0	865.0	1.39	49	225	155	54	25									
DF		Totals	146	88	120	74.272	182.50	184.16	42.7	190.9	224.25	7,868	35,150	24,891	8,734	3,902									
DF S		10	1	72	35	2.292	1.25																		
DF S		14	1	61	27	1.169	1.25																		
DF S		15	3	81	56	3.056	3.75																		
DF S		16	2	78	41	1.790	2.50																		
DF S		21	1	85	60	.520	1.25																		
DF S		24	1	89	120	.398	1.25																		
DF S		Totals	9	76	47	9.225	11.25																		
Totals		155	86	112	83.497	193.75	184.16	42.7	190.9	224.25	7,868	35,150	24,891	8,734	3,902										

TC PLOGSTVB		Log Stock Table - MBF																	
TT1S RR6W S02 Ty00CC 111.00						Project: NORTH SUN Acres 111.00										Page 1 Date 5/27/2025 Time 2:36:37PM			
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		12		12	.3					12						
DF		2M	20		24		24	.6							11		12		
DF		2M	40		2,850		2,836	72.7					548	630	1196		289	173	
DF		3M	26		1		1	.0				1							
DF		3M	28		3		3	.1			1	1							
DF		3M	31		4		4	.1				4							
DF		3M	32		2		2	.0			2								
DF		3M	33		10		10	.2			10								
DF		3M	34		6		6	.2			5	1							
DF		3M	36		5		5	.1			5								
DF		3M	37		19		19	.5			19								
DF		3M	38		4		4	.1			2	2							
DF		3M	39		13		13	.3			11	2							
DF		3M	40		820		817	21.0			137	232	438	10					
DF		4M	12		1		1	.0			1								
DF		4M	13		3		3	.1			3								
DF		4M	14		7		7	.2			7								
DF		4M	15		3		3	.1			3								
DF		4M	16		8		8	.2			6	1							
DF		4M	17		3		3	.1			3								
DF		4M	18		2		2	.0			2								
DF		4M	19		3		3	.1			3								
DF		4M	20		6		6	.1			6								
DF		4M	21		5		5	.1			5								
DF		4M	22		12		12	.3			11	1							
DF		4M	23		5		5	.1			5								
DF		4M	24		4		4	.1			4								
DF		4M	25		4		4	.1			4								
DF		4M	26		9		9	.2			9								
DF		4M	27		3		3	.1			3								
DF		4M	28		10		10	.2			10								
DF		4M	29		9		9	.2			9								
DF		4M	30		2		2	.0			2								
DF		4M	31		6		6	.1			6								
DF		4M	33		3		3	.1			3								
DF		4M	34		2		2	.1			2								
DF		4M	35		6		6	.2			6								

TC		PLOGSTVB		Log Stock Table - MBF																
TT1S RR6W S02 Ty00CC 111.00				Project:		NORTHSUN										Page		2		
																Date		5/27/2025		
																Time		2:36:37PM		
S T Spp	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	4M	37	29	29	.8		29					
								DF	4M	40	2	2	.1		2					
								DF	Totals		3,918	3,902	100.0		336	247	438	570	630	1207
Total	All Species		3,918	3,902	100.0		336	247	438	570	630	1207	301	173						

TC PSTATS				PROJECT STATISTICS				PAGE	1		
				PROJECT	NORTHSUN			DATE	5/27/2025		
TWP	RGE	SC	TRACT	TYPE	ACRES		PLOTS	TREES	CuFt	BdFt	
T1S	R6	02	00U2	00CC	49.00		11	57	S	W	
					TREES	ESTIMATED		PERCENT			
				PLOTS	TREES	PER PLOT	TREES	TREES			
TOTAL			11	57	5.2						
CRUISE			11	57	5.2	3,513		1.6			
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			54	69.5	22.8	116	41.2	196.4	35,011	34,636	7,899
WHEMLOCK			2	1.7	28.0	101	1.4	7.3	1,148	1,148	286
NOB FIR			1	.4	39.0	122	0.6	3.6	605	544	122
TOTAL			57	71.7	23.0	115	43.2	207.3	36,764	36,328	8,307
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			70.6	9.6	626	693	759				
WHEMLOCK			15.7	14.7	576	675	774				
NOB FIR											
TOTAL			68.6	9.1	638	702	766	188	47	21	
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			60.8	8.3	139	152	165				
WHEMLOCK			5.7	5.4	159	168	177				
NOB FIR											
TOTAL			59.1	7.8	143	155	167	139	35	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			40.5	12.8	61	70	78				
WHEMLOCK			222.5	70.3	1	2	3				
NOB FIR			331.7	104.8		0	1				
TOTAL			38.3	12.1	63	72	80	64	16	7	
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			28.0	8.8	179	196	214				
WHEMLOCK			222.5	70.3	2	7	12				
NOB FIR			331.7	104.8		4	7				
TOTAL			24.1	7.6	191	207	223	26	6	3	
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			38.4	12.1	30,437	34,636	38,836				
WHEMLOCK			224.2	70.8	335	1,148	1,961				
NOB FIR			331.7	104.8		544	1,113				
TOTAL			32.9	10.4	32,557	36,328	40,099	47	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			34.3	10.8	7,043	7,899	8,754				
WHEMLOCK			222.7	70.4	85	286	488				

TC PSTATS				PROJECT STATISTICS					PAGE	2
				PROJECT	NORTHSUN				DATE	5/27/2025
TWP	RGE	SC	TRACT	TYPE	ACRES		PLOTS	TREES	CuFt	BdFt
T1S	R6	02	00U2	00CC	49.00		11	57	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			331.7	104.8		122	250			
TOTAL			28.9	9.1	7,548	8,307	9,066	37	9	4

TC		PSPCSTGR		Species, Sort Grade - Board Foot Volumes (Project)																	
TT1S RR6W S02 Ty00CC49.00				Project: NORTHSUN												Page 1					
				Acres 49.00												Date 5/27/2025					
																Time 2:40:39PM					
Spp	So Gr T rt 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														11	11		0.00	11.4		
DF	2M	75	1.4	26,608	26,247	1,286			42	58	2	1		97	39	16	405	2.18	64.8		
DF	3M	23	.2	7,745	7,732	379		100				3	2	95	39	8	106	0.77	73.0		
DF	4M	2		657	657	32		100			51	49			20	6	26	0.43	24.9		
DF Totals		95	1.1	35,011	34,636	1,697		24	32	44	2	2	0	95	34	11	199	1.32	174.1		
WH	2M	83		961	961	47				100				100	40	19	565	3.07	1.7		
WH	3M	17		187	187	9		100						100	40	9	110	1.14	1.7		
WH Totals		3		1,148	1,148	56		16		84				100	40	14	337	2.10	3.4		
NF	CU														16	25		0.00	.4		
NF	2M	100	10.1	605	544	27			23	77		77		23	35	21	620	3.97	.9		
NF Totals		1	10.1	605	544	27			23	77		77		23	29	22	413	3.23	1.3		
Totals			1.2	36,763	36,328	1,780		24	31	46	2	3	0	94	34	11	203	1.35	178.9		

TC		PSTNDSUM										Stand Table Summary										Page		1	
																						Date:		5/27/2025	
TT1S RR6W S02 Ty00CC					49.00					Project					NORTHSUN					Time:		2:40:40PM			
										Acres					49.00					Grown Year:					
S Sp	T	Sample DBH		Tot FF Av 16' Ht		Trees/ BA/ Logs Acre Acre		Average Log		Net		Net		T o t a l s											
								Net Cu.Ft.	Net Bd.Ft.	Tons/ Acre	Cu.Ft. Acre	Bd.Ft. Acre	Tons				Cunits	MBF							
DF		16	3	87	111	7.813	10.91	15.63	25.2	106.7	11.21	393	1,667	549	193	82									
DF		17	3	87	117	6.921	10.91	13.84	29.6	123.3	11.68	410	1,707	572	201	84									
DF		18	3	87	116	6.173	10.91	12.35	33.9	133.3	11.93	419	1,646	585	205	81									
DF		19	4	86	102	7.387	14.55	12.93	38.9	147.1	14.32	502	1,902	702	246	93									
DF		20	7	85	111	11.668	25.45	25.00	36.9	148.0	26.33	924	3,700	1,290	453	181									
DF		21	1	86	123	1.512	3.64	4.54	33.4	143.3	4.32	152	650	212	74	32									
DF		22	4	86	111	5.510	14.55	15.15	36.2	151.8	15.64	549	2,300	766	269	113									
DF		23	1	86	117	1.260	3.64	3.78	38.4	166.7	4.14	145	630	203	71	31									
DF		25	3	86	116	3.200	10.91	8.53	48.5	200.0	11.80	414	1,707	578	203	84									
DF		26	3	86	120	2.959	10.91	8.88	52.0	225.6	13.16	462	2,002	645	226	98									
DF		27	3	86	122	2.744	10.91	7.32	63.7	271.2	13.27	466	1,985	650	228	97									
DF		29	5	85	115	3.964	18.18	9.51	76.3	343.3	20.68	726	3,266	1,014	356	160									
DF		31	3	86	131	2.081	10.91	6.24	79.8	381.1	14.20	498	2,380	696	244	117									
DF		32	3	86	130	1.953	10.91	5.86	76.6	362.2	12.80	449	2,123	627	220	104									
DF		33	1	87	133	.612	3.64	1.84	93.2	463.3	4.88	171	851	239	84	42									
DF		34	3	86	131	1.730	10.91	5.19	96.7	466.7	14.30	502	2,422	701	246	119									
DF		35	1	86	145	.544	3.64	1.63	113.4	590.0	5.28	185	963	259	91	47									
DF		36	2	87	145	1.029	7.27	3.09	116.4	606.7	10.24	359	1,873	502	176	92									
DF		37	1	86	138	.487	3.64	1.46	118.8	590.0	4.95	174	862	242	85	42									
DF		Totals	54	86	116	69.548	196.36	162.76	48.5	212.8	225.11	7,899	34,636	11,030	3,870	1,697									
WH		28	2	86	101	1.701	7.27	3.40	84.2	337.5	9.16	286	1,148	449	140	56									
WH		Totals	2	86	101	1.701	7.27	3.40	84.2	337.5	9.16	286	1,148	449	140	56									
NF		39	1	84	122	.438	3.64	.88	139.1	620.0	2.93	122	544	143	60	27									
NF		Totals	1	84	122	.438	3.64	.88	139.1	620.0	2.93	122	544	143	60	27									
Totals			57	86	115	71.687	207.27	167.04	49.7	217.5	237.20	8,307	36,328	11,623	4,070	1,780									

TC		PLOGSTVB		Log Stock Table - MBF															
TT1S RR6W S02 Ty00CC 49.00				Project: NORTH Acres 49.00		SUN		Page 1 Date 5/27/2025 Time 2:40:38PM											
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+
DF		2M	16	11	12.5	9	.6							9					
DF		2M	20	16	14.0	14	.8									14			
DF		2M	26	11		11	.6					11							
DF		2M	40	1,266	1.1	1,252	73.8					220	276	345	267	145			
DF		3M	26	1		1	.1			1									
DF		3M	28	10		10	.6			5	5								
DF		3M	32	4		4	.3				4								
DF		3M	34	2		2	.1				2								
DF		3M	38	8		8	.5			8									
DF		3M	40	354		353	20.8			88	89	177							
DF		4M	12	1		1	.0			1									
DF		4M	13	2		2	.1			2									
DF		4M	14	2		2	.1			2									
DF		4M	16	3		3	.2			3									
DF		4M	17	1		1	.1			1									
DF		4M	18	3		3	.2			3									
DF		4M	19	3		3	.2			2	1								
DF		4M	20	2		2	.1			1	1								
DF		4M	22	3		3	.2			3									
DF		4M	24	1		1	.1			1									
DF		4M	27	3		3	.2			3									
DF		4M	30	8		8	.5			8									
DF		Totals		1,716	1.1	1,697	95.3			131	104	177	231	276	354	267	158		
WH		2M	40	47		47	83.7							47					
WH		3M	40	9		9	16.3			3		6							
WH		Totals		56		56	3.2			3		6		47					
NF		2M	30	23	12.8	20	76.6									20			
NF		2M	40	6		6	23.4						6						
NF		Totals		30	10.1	27	1.5						6			20			
Total		All Species		1,801	1.2	1,780	100.0			134	104	183	231	282	401	267	179		

VOLUME SUMMARY
(Shown in MBF)
North Sun
FG-341-2026-W01162-01
July 2025

UNIT 1: Modified Clearcut (111 ACRES)

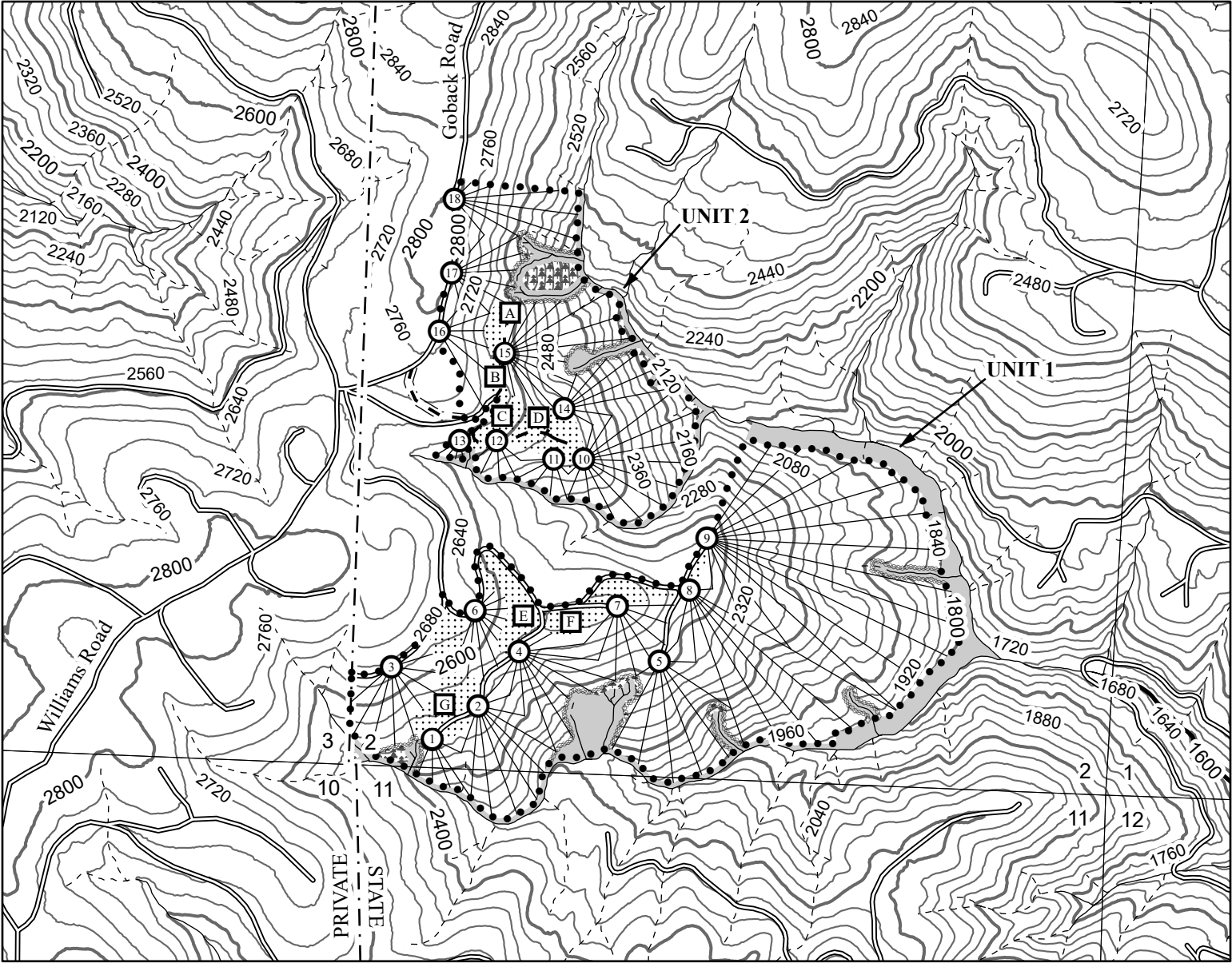
SPECIES		2 SAW	3 SAW	4 SAW	TOTAL
Douglas-fir	Cruise Volume	2,871	884	146	3,901
	Hidden D&B (2%)	(57)	(18)	(3)	(78)
	NET TOTAL	2,814	866	143	3,823
	% of Total	74	22	4	

UNIT 2: Modified Clearcut (49 ACRES)

SPECIES		2 SAW	3 SAW	4 SAW	TOTAL
Douglas-fir	Cruise Volume	1,286	379	32	1,697
	Hidden D&B (2%)	(26)	(8)	(1)	(35)
	NET TOTAL	1,260	371	31	1,662
	% of Total	76	22	2	
Western hemlock	Cruise Volume	47	9	0	56
	Hidden D&B (2%)	(1)	(0)	(0)	(1)
	NET TOTAL	46	9	0	55
	% of Total	84	16	0	
Noble fir	Cruise Volume	27	0	0	27
	Hidden D&B (5%)	(1)	(0)	(0)	(1)
	NET TOTAL	26	0	0	26
	% of Total	100	0	0	

SALE TOTAL

SPECIES	2 SAW	3 SAW	4 SAW	TOTAL
Douglas-fir	4,074	1,237	174	5,485
Western hemlock	46	9	0	55
Noble fir	26	0	0	26
Total	4,146	1,246	174	5,566



- Legend**
- • • Timber Sale Boundary
 - ▤ Posted Stream Buffer Boundary
 - ┌ ┐ ODF Ownership Boundary
 - : — Right-of-Way 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 Line
 - 40 Foot Contour Band
 - 200 Foot Contour Band

LOGGING PLAN

FOR TIMBER SALE CONTRACT #FG-341-2026-W01162-01
NORTH SUN
PORTIONS OF SECTIONS 2 & 11, T1S, R6W, W.M.
WASHINGTON COUNTY, OREGON

Forest Grove District GIS
July, 2025

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

1:12,000

1 inch = 1,000 feet



APROXIMATE NET ACRES

	TRACTOR	CABLE
UNIT 1	11	100
UNIT 2	6	43
TOTAL	17	143