



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Sunset Music
Sale FG-341-2022-W00481-01

District: Forest Grove

Date: May 25, 2021

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$3,892,154.92	\$0.00	\$3,892,154.92
		Project Work:	(\$260,250.00)
		Advertised Value:	\$3,631,904.92



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Sunset Music
Sale FG-341-2022-W00481-01

District: Forest Grove

Date: May 25, 2021

Timber Description

Location:

Stand Stocking: 20%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	18	0	98
Western Hemlock / Fir	16	0	98

Volume by Grade	2S	3S & 4S 6"-11"	Total
Douglas - Fir	3,641	3,364	7,005
Western Hemlock / Fir	61	211	272
Total	3,702	3,575	7,277

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

Western Hemlock and Other Conifers Stumpage Price = Pond Value minus Logging Cost:
 $\$347.81/\text{MBF} = \$626.85/\text{MBF} - \$279.04/\text{MBF}$

Western redcedar and Other Cedars Stumpage Price = Pond Value minus Logging Cost:
 $\$1,117.37/\text{MBF} = \$1,378/\text{MBF} - \$260.63/\text{MBF}$

Red Alder and Other Hardwoods Stumpage Price = Pond Value minus Logging Cost:
 $\$411.37/\text{MBF} = \$672/\text{MBF} - \$260.63/\text{MBF}$

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:
 $30 \text{ hours} \times \$150/\text{hour} = \$4,500$
Machine Time to Pile Landing Slash:
 $10 \text{ hours} \times \$150/\text{hour} = \$1,500$
Equipment Cleaning: 3 pieces $\times \$1,000/\text{Piece} = \$3,000$
Slash Disposal: 5 acres $\times \$200/\text{acre} = \$1,000$
TOTAL Other Costs (No Profit & Risk added) = \$10,000

ROAD MAINTENANCE
Move-in (Includes: Move-in, Grading, Rolling and Spot Rocking):
\$1,938.75
General Road Maintenance: 3.45 Miles $\times \$2,273.81 = \$7,844.64$
TOTAL Road Maintenance: $\$9,783.39 / 7,277\text{MBF} = \$1.34/\text{MBF}$



Timber Sale Appraisal
Sunset Music
Sale FG-341-2022-W00481-01

District: Forest Grove

Date: May 25, 2021

Logging Conditions

Combination#: 1 Douglas - Fir 48.08%
 Western Hemlock / Fir 18.93%

Logging System: Cable: Medium Tower >40 - <70 **Process:** Manual Delimbing
yarding distance: Medium (800 ft) **downhill yarding:** No
tree size: Mature / Partial Cut (900 Bft/tree), 3-5 logs/MBF
loads / day: 8 **bd. ft / load:** 3900
cost / mbf: \$195.51
machines: Log Loader (A)
 Tower Yarder (Medium)

Combination#: 2 Douglas - Fir 51.92%
 Western Hemlock / Fir 81.07%

Logging System: Shovel **Process:** Manual Delimbing
yarding distance: Medium (800 ft) **downhill yarding:** No
tree size: Mature / Partial Cut (900 Bft/tree), 3-5 logs/MBF
loads / day: 10 **bd. ft / load:** 3900
cost / mbf: \$85.32
machines: Shovel Logger



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Sunset Music
Sale FG-341-2022-W00481-01

District: Forest Grove

Date: May 25, 2021

Logging Costs

Operating Seasons: 2.00	Profit Risk: 15%
Project Costs: \$260,250.00	Other Costs (P/R): \$0.00
Slash Disposal: \$0.00	Other Costs: \$10,000.00

Miles of Road

Road Maintenance: \$1.34

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	3.9
Western Hemlock / Fir	\$0.00	2.0	3.7



Timber Sale Appraisal
Sunset Music
Sale FG-341-2022-W00481-01

District: Forest Grove

Date: May 25, 2021

Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
Douglas - Fir									
\$138.30	\$1.37	\$1.21	\$82.82	\$0.00	\$33.56	\$0.00	\$2.00	\$1.37	\$260.63
Western Hemlock / Fir									
\$106.18	\$1.37	\$1.21	\$130.95	\$0.00	\$35.96	\$0.00	\$2.00	\$1.37	\$279.04

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$802.75	\$542.12	\$0.00
Western Hemlock / Fir	\$0.00	\$626.85	\$347.81	\$0.00



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Sunset Music
Sale FG-341-2022-W00481-01

District: Forest Grove

Date: May 25, 2021

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	7,005	\$542.12	\$3,797,550.60
Western Hemlock / Fir	272	\$347.81	\$94,604.32

Gross Timber Sale Value

Recovery: \$3,892,154.92

Prepared By: Mark Savage

Phone: 503-359-7437

TIMBER SALE SUMMARY

Sunset Music

FG-341-2022-W00481-01

1. **Location:** Portions of Sections 2 & 3, T3N, R6W, W.M., Tillamook County, Oregon, and portions of Sections 34 & 35, T4N, R6W, W.M., Clatsop County, Oregon.
2. **Type of Sale:** This timber sale is 275 acres. It consists of a Moderate Partial Cut unit, a Light Partial Cut unit, three Partial Cut Group Selection units, and a Right-of-Way unit. Unit 1 (PC-M) is 79 acres, Unit 2 (PC-L) is 161 acres, Unit 3 (PC-GR) is a set of group selection clearcut areas, for wildlife purposes, totaling 15 acres within Unit 1, and Unit 4 (R/W) is 20 acres. The timber will be sold on a recovery basis at a sealed bid auction.
3. **Revenue Distribution:** 100% BOF; 15% Clatsop, County Tax Code 8-01; 85% Tillamook County, Tax Code 56-1.
4. **Sale Acreage:** Acres are net of stream buffers and existing road prisms. Acreage was determined using ESRI ArcMap GIS software.
5. **Cruise:** The Timber Sale was cruised by ODF Cruisers Adrian Torres, Kenton Burns and Mark Savage in May of 2021. For more information see Cruise Report.
6. **Timber Description:** The Timber Sale Area consists of 75-year-old Douglas-fir timber with minor amounts of red alder, western hemlock, and western red cedar.

The following table summarizes the ODF cruise estimates for trees to be harvested.

Sale Unit	Net Acres	Average DBH	Trees/Acre	Net MBF/Acre
Unit 1	79	18	78	25.5
Unit 2	161	18	52	20.7
Unit 3	15	19	146	51.5
Unit 4	20	19	130	58

7. **Topography and Logging Method:** Slopes within the sale areas range from 5% to 80% and are variable in aspect. Elevations range from 1,200 to 1,800 feet. The following table summarizes, in feet, the estimated maximum and average horizontal cable corridor length, the estimated maximum and average tractor skid trail length, as well as the percent harvest method for each Timber Sale Unit.

Sale Unit	Tractor			Cable		
	Average	Maximum	%	Average	Maximum	%
Unit 1	300	600	42	400	1,300	58
Unit 2	300	800	40	600	1,400	60
Unit 3	100	350	67	150	600	33
Unit 4	NA	NA	100	NA	NA	0

8. **Access:** All access to the Timber Sale Area is on surfaced all-weather roads. From Forest Grove travel north on Highway 47 and west on Highway 26 for approximately 32 miles to Music Road near milepost 31. Turn right on Music Road and continue for 0.58 miles to the northwestern portion of the Timber Sale Area.

9. **Projects:**

Project No. 1: Rocked Road Construction	\$244,039.92
Project No. 2: Road Improvement	\$13,758.13
Project No. 3: Road Vacating and Blocking	\$2,451.95
Total Credits:	\$260,250.00

PROJECT COST SUMMARY SHEET

Timber Sale: Sunset Music
Sale Number: FG-341-2022-W00481-01

PROJECT NO. 1: ROCKED ROAD CONSTRUCTION

	Road Segment	Length	Cost
	A to B	67+00	\$102,332.24
	C to D	15+60	\$23,407.06
	E to F	3+80	\$7,306.39
	G to H	34+40	\$54,813.38
	I to J	10+30	\$19,455.02
	K to L	10+50	\$15,183.15
	M to N	3+30	\$7,076.19
	O to P	5+60	\$9,670.78
	Point Q	-	\$108.56
	Point R	-	\$108.56
		150+50 stations	
		2.85 miles	
Total Rock =	12,259 cy 24 cy	4" - 0 Boulders	
		Move-in =	\$4,578.59

TOTAL PROJECT COST = \$244,039.92**PROJECT NO. 2: ROAD IMPROVEMENT**

	Road Segment	Length	Cost
	S to A	176+00	\$13,500.00
		176+00 stations	
		3.33 miles	
Total Rock =	1,000 cy	4" - 0	
		Move-in =	\$258.13

TOTAL PROJECT COST = \$13,758.13**PROJECT NO. 3: ROAD VACATING AND BLOCKING**

	Location	Length	Cost
	O to P	5+60	\$765.84
		5+60 stations	
		0.11 miles	
		Move-in =	\$1,686.11

TOTAL PROJECT COST = \$2,451.95**TOTAL CREDITS = \$260,250.00**

SUMMARY OF CONSTRUCTION COST

Timber Sale: Sunset Music
Road Segment: A to B

Sale Number: FG-341-2022-W00481-01
Construction: 67+00 stations
1.27 miles

PROJECT NO. 1: ROCKED ROAD CONSTRUCTION

CONSTRUCTION

Clearing & grubbing (scatter)	7.70	ac @	\$1,078.00	per ac =	\$8,300.60
Remove large stumps	4	ea @	\$82.50	per ea =	\$330.00
Balanced road construction	61.80	sta @	\$110.00	per sta =	\$6,798.00
Drift	5.20	sta @	\$180.00	per sta =	\$936.00
End-haul					
Excavate & load	1,586	cy @	\$1.64	per cy =	\$2,601.04
Haul	2,062	cy @	\$0.59	per cy =	\$1,216.46
Shape and compact waste material	2,062	cy @	\$0.30	per cy =	\$618.54
Construct settling ponds	2	ea @	\$25.00	per ea =	\$50.00
Turnouts	5	ea @	\$66.00	per ea =	\$330.00
Turnarounds	1	ea @	\$82.50	per ea =	\$82.50
Roadside landing	2	ea @	\$165.00	per ea =	\$330.00
Landing	2	ea @	\$314.00	per ea =	\$628.00
Grade, ditch, & roll	67.00	sta @	\$36.00	per sta =	\$2,412.00

TOTAL CONSTRUCTION COSTS = \$24,633.14

CULVERTS

Culverts and Bands					
18" Diameter	150	LF @	\$20.00	per LF =	\$3,000.00
Markers & Stakes					
Culvert markers	5	ea @	\$10.00	per ea =	\$50.00

TOTAL CULVERT COSTS = \$3,050.00

GATE INSTALLATION

Pickup, Transport and Install Gate	1	ea @	\$1,200.00	per ea =	\$1,200.00
Painting, cutting, welding and concrete	1	ea @	\$1,750.00	per ea =	\$1,750.00

TOTAL GATE COSTS = \$2,950.00

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Surfacing rock						
Base rock	4" - 0	\$9.33	\$3.00	\$1.22	4,355	\$59,010.25
Junction	4" - 0	\$9.33	\$3.00	\$1.22	72	\$975.60
Turnout	4" - 0	\$9.33	\$3.00	\$1.22	145	\$1,964.75
Turnaround	4" - 0	\$9.33	\$3.00	\$1.22	20	\$271.00
Roadside landing	4" - 0	\$9.33	\$3.00	\$1.22	190	\$2,574.50
Landing	4" - 0	\$9.33	\$3.00	\$1.22	360	\$4,878.00
				Subtotal =	5,142	\$69,674.10

Totals

All Rock =	5,142
4" - 0 =	5,142

TOTAL ROCK COSTS = \$69,674.10

EROSION CONTROL

Grass seed & fertilizer	3.85	ac @	\$500.00	per ac =	\$1,925.00
Straw mulch (bale)	10	ea @	\$10.00	per ea =	\$100.00

TOTAL EROSION CONTROL COSTS = \$2,025.00

TOTAL PROJECT COST = \$102,332.24

SUMMARY OF CONSTRUCTION COST

Timber Sale: Sunset Music
 Road Segment: C to D

Sale Number: FG-341-2022-W00481-01
 Construction: 15+60 stations
0.30 miles

PROJECT NO. 1: ROCKED ROAD CONSTRUCTION

CONSTRUCTION

Clearing & grubbing (scatter)	1.80	ac @	\$1,078.00	per ac =	\$1,940.40
Balanced road construction	15.60	sta @	\$110.00	per sta =	\$1,716.00
Turnouts	2	ea @	\$66.00	per ea =	\$132.00
Turnarounds	1	ea @	\$82.50	per ea =	\$82.50
Landing	1	ea @	\$314.00	per ea =	\$314.00
Grade, ditch, & roll	15.60	sta @	\$36.00	per sta =	\$561.60

TOTAL CONSTRUCTION COSTS = \$4,746.50

CULVERTS

Culverts and Bands					
18" Diameter	60	LF @	\$20.00	per LF =	\$1,200.00
Markers & Stakes					
Culvert markers	2	ea @	\$10.00	per ea =	\$20.00

TOTAL CULVERT COSTS = \$1,220.00

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Surfacing rock						
Base rock	4" - 0	\$9.33	\$2.56	\$1.22	1,014	\$13,293.54
Junction	4" - 0	\$9.33	\$2.56	\$1.22	24	\$314.64
Turnout	4" - 0	\$9.33	\$2.56	\$1.22	58	\$760.38
Turnaround	4" - 0	\$9.33	\$2.56	\$1.22	20	\$262.20
Landing	4" - 0	\$9.33	\$2.56	\$1.22	180	\$2,359.80
Subtotal =					1,296	\$16,990.56

Totals	All Rock =	1,296
	4" - 0 =	1,296

TOTAL ROCK COSTS = \$16,990.56

EROSION CONTROL

Grass seed & fertilizer	0.90	ac @	\$500.00	per ac =	\$450.00
-------------------------	------	------	----------	----------	----------

TOTAL EROSION CONTROL COSTS = \$450.00

TOTAL PROJECT COST = \$23,407.06

SUMMARY OF CONSTRUCTION COST

Timber Sale: Sunset Music
Road Segment: E to F

Sale Number: FG-341-2022-W00481-01
Construction: 3+80 stations
0.07 miles

PROJECT NO. 1: ROCKED ROAD CONSTRUCTION

CONSTRUCTION

Clearing & grubbing (scatter)	0.44	ac @	\$1,078.00	per ac =	\$474.32
Balanced road construction	3.80	sta @	\$110.00	per sta =	\$418.00
Turnarounds	1	ea @	\$82.50	per ea =	\$82.50
Landing	1	ea @	\$314.00	per ea =	\$314.00
Grade, ditch, & roll	3.80	sta @	\$36.00	per sta =	\$136.80

TOTAL CONSTRUCTION COSTS = \$1,425.62

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Surfacing rock						
Base rock	4" - 0	\$9.33	\$2.36	\$1.22	247	\$3,188.77
Turnaround	4" - 0	\$9.33	\$2.36	\$1.22	20	\$258.20
Landing	4" - 0	\$9.33	\$2.36	\$1.22	180	\$2,323.80
Subtotal =					447	\$5,770.77

Totals

All Rock =	447
4" - 0 =	447

TOTAL ROCK COSTS = \$5,770.77

EROSION CONTROL

Grass seed & fertilizer	0.22	ac @	\$500.00	per ac =	\$110.00
-------------------------	------	------	----------	----------	----------

TOTAL EROSION CONTROL COSTS = \$110.00

TOTAL PROJECT COST = \$7,306.39

SUMMARY OF CONSTRUCTION COST

Timber Sale: Sunset Music
Road Segment: G to H

Sale Number: FG-341-2022-W00481-01
Construction: 34+40 stations
0.65 miles

PROJECT NO. 1: ROCKED ROAD CONSTRUCTION

CONSTRUCTION

Clearing & grubbing (scatter)	3.95	ac @	\$1,078.00	per ac =	\$4,258.10
Remove large stumps	1.00	ea @	\$82.50	per ea =	\$82.50
Balanced road construction	32.30	sta @	\$110.00	per sta =	\$3,553.00
Drift	2.10	sta @	\$180.00	per sta =	\$378.00
Drift & compact fill	296	cy @	\$1.40	per cy =	\$414.40
Pump culvert installation	1	day @	\$150.00	per day =	\$150.00
Construct settling ponds	2	ea @	\$25.00	per ea =	\$50.00
Turnouts	3	ea @	\$66.00	per ea =	\$198.00
Turnarounds	1	ea @	\$82.50	per ea =	\$82.50
Landing	1	ea @	\$314.00	per ea =	\$314.00
Grade, ditch, & roll	34.40	sta @	\$36.00	per sta =	\$1,238.40

TOTAL CONSTRUCTION COSTS = \$10,718.90

CULVERTS

Culverts and Bands					
18" Diameter	340	LF @	\$20.00	per LF =	\$6,800.00
24" Diameter	50	LF @	\$29.00	per LF =	\$1,450.00
Markers & Stakes					
Culvert markers	12	ea @	\$10.00	per ea =	\$120.00
Additional Installation Cost					
Punchin removal	4	hrs @	\$175.00	per hr =	\$700.00

TOTAL CULVERT COSTS = \$9,070.00

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Surfacing rock						
Base rock	4" - 0	\$9.33	\$2.79	\$1.22	2,236	\$29,828.24
Junction	4" - 0	\$9.33	\$2.79	\$1.22	24	\$320.16
Turnout	4" - 0	\$9.33	\$2.79	\$1.22	87	\$1,160.58
Turnaround	4" - 0	\$9.33	\$2.79	\$1.22	20	\$266.80
Landing	4" - 0	\$9.33	\$2.79	\$1.22	180	\$2,401.20
Subtotal =					2,547	\$33,976.98

Totals	All Rock =	2,547
	4" - 0 =	2,547

TOTAL ROCK COSTS = \$33,976.98

EROSION CONTROL

Grass seed & fertilizer	1.98	ac @	\$500.00	per ac =	\$987.50
Straw mulch (bale)	6	ea @	\$10.00	per ea =	\$60.00

TOTAL EROSION CONTROL COSTS = \$1,047.50

TOTAL PROJECT COST = \$54,813.38

SUMMARY OF CONSTRUCTION COST

Timber Sale: Sunset Music
Road Segment: I to J

Sale Number: FG-341-2022-W00481-01
Construction: 10+30 stations
0.20 miles

PROJECT NO. 1: ROCKED ROAD CONSTRUCTION

CONSTRUCTION

Clearing & grubbing (scatter)	1.19	ac @	\$1,078.00	per ac =	\$1,282.82
Remove large stumps	1.00	ea @	\$82.50	per ea =	\$82.50
Balanced road construction	7.50	sta @	\$110.00	per sta =	\$825.00
Drift	2.80	sta @	\$180.00	per sta =	\$504.00
Drift & compact fill	70	cy @	\$1.40	per cy =	\$98.00
Pump culvert installation	1	day @	\$150.00	per day =	\$150.00
Turnarounds	1	ea @	\$82.50	per ea =	\$82.50
Roadside landing	1	ea @	\$165.00	per ea =	\$165.00
Landing	1	ea @	\$314.00	per ea =	\$314.00
Grade, ditch, & roll	10.30	sta @	\$36.00	per sta =	\$370.80

TOTAL CONSTRUCTION COSTS = \$3,874.62

CULVERTS

Culverts and Bands					
18" Diameter	30	LF @	\$20.00	per LF =	\$600.00
36" Diameter	40	LF @	\$50.00	per LF =	\$2,000.00
Markers & Stakes					
Culvert markers	2	ea @	\$10.00	per ea =	\$20.00

TOTAL CULVERT COSTS = \$2,620.00

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Surfacing rock						
Base rock	4" - 0	\$9.33	\$2.51	\$1.22	670	\$8,750.20
Turnaround	4" - 0	\$9.33	\$2.51	\$1.22	20	\$261.20
Roadside landing	4" - 0	\$9.33	\$2.51	\$1.22	95	\$1,240.70
Landing	4" - 0	\$9.33	\$2.51	\$1.22	180	\$2,350.80
				Subtotal =	965	\$12,602.90

Totals

All Rock =	965
4" - 0 =	965

TOTAL ROCK COSTS = \$12,602.90

EROSION CONTROL

Grass seed & fertilizer	0.60	ac @	\$500.00	per ac =	\$297.50
Straw mulch (bale)	6	ea @	\$10.00	per ea =	\$60.00

TOTAL EROSION CONTROL COSTS = \$357.50

TOTAL PROJECT COST = \$19,455.02

SUMMARY OF CONSTRUCTION COST

Timber Sale: Sunset Music
Road Segment: K to L

Sale Number: FG-341-2022-W00481-01
Construction: 10+50 stations
0.20 miles

PROJECT NO. 1: ROCKED ROAD CONSTRUCTION

CONSTRUCTION

Clearing & grubbing (scatter)	1.21	ac @	\$1,078.00	per ac =	\$1,304.38
Balanced road construction	10.50	sta @	\$110.00	per sta =	\$1,155.00
Turnarounds	1	ea @	\$82.50	per ea =	\$82.50
Landing	1	ea @	\$314.00	per ea =	\$314.00
Grade, ditch, & roll	10.50	sta @	\$36.00	per sta =	\$378.00

TOTAL CONSTRUCTION COSTS = \$3,233.88

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Surfacing rock						
Base rock	4" - 0	\$9.33	\$2.64	\$1.22	683	\$9,008.77
Turnaround	4" - 0	\$9.33	\$2.64	\$1.22	20	\$263.80
Landing	4" - 0	\$9.33	\$2.64	\$1.22	180	\$2,374.20
				Subtotal =	883	\$11,646.77

Totals	All Rock =	883
	4" - 0 =	883

TOTAL ROCK COSTS = \$11,646.77

EROSION CONTROL

Grass seed & fertilizer	0.61	ac @	\$500.00	per ac =	\$302.50
-------------------------	------	------	----------	----------	----------

TOTAL EROSION CONTROL COSTS = \$302.50

TOTAL PROJECT COST = \$15,183.15

SUMMARY OF CONSTRUCTION COST

Timber Sale: Sunset Music
Road Segment: M to N

Sale Number: FG-341-2022-W00481-01
Construction: 3+30 stations
0.06 miles

PROJECT NO. 1: ROCKED ROAD CONSTRUCTION

CONSTRUCTION

Clearing & grubbing (scatter)	0.38	ac @	\$1,078.00	per ac =	\$409.64
Balanced road construction	2.30	sta @	\$110.00	per sta =	\$253.00
Drift	1.00	sta @	\$180.00	per sta =	\$180.00
Turnarounds	1	ea @	\$82.50	per ea =	\$82.50
Landing	1	ea @	\$314.00	per ea =	\$314.00
Grade, ditch, & roll	3.30	sta @	\$36.00	per sta =	\$118.80

TOTAL CONSTRUCTION COSTS = \$1,357.94

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Surfacing rock						
Base rock	4" - 0	\$9.33	\$3.00	\$1.22	215	\$2,913.25
Turnaround	4" - 0	\$9.33	\$3.00	\$1.22	20	\$271.00
Landing	4" - 0	\$9.33	\$3.00	\$1.22	180	\$2,439.00
				Subtotal =	415	\$5,623.25

Totals

All Rock =	415
4" - 0 =	415

TOTAL ROCK COSTS = \$5,623.25

EROSION CONTROL

Grass seed & fertilizer	0.19	ac @	\$500.00	per ac =	\$95.00
-------------------------	------	------	----------	----------	---------

TOTAL EROSION CONTROL COSTS = \$95.00

TOTAL PROJECT COST = \$7,076.19

SUMMARY OF CONSTRUCTION COST

Timber Sale: Sunset Music
 Road Segment: O to P

Sale Number: FG-341-2022-W00481-01
 Construction: 5+60 stations
0.11 miles

PROJECT NO. 1: ROCKED ROAD CONSTRUCTION

CONSTRUCTION

Clearing & grubbing (scatter)	0.65	ac @	\$1,078.00	per ac =	\$700.70
Balanced road construction	5.60	sta @	\$110.00	per sta =	\$616.00
Turnarounds	1	ea @	\$82.50	per ea =	\$82.50
Landing	1	ea @	\$314.00	per ea =	\$314.00
Grade, ditch, & roll	5.60	sta @	\$36.00	per sta =	\$201.60

TOTAL CONSTRUCTION COSTS = \$1,914.80

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Surfacing rock						
Base rock	4" - 0	\$9.33	\$2.72	\$1.22	364	\$4,830.28
Turnaround	4" - 0	\$9.33	\$2.72	\$1.22	20	\$265.40
Temporary Blocking Boulders	36"-24"	\$9.33	\$2.72	\$1.60	8	\$109.20
Landing	4" - 0	\$9.33	\$2.72	\$1.22	180	\$2,388.60
Subtotal =					572	\$7,593.48

Totals

All Rock =	572
4" - 0 =	564
Boulders	8

TOTAL ROCK COSTS = \$7,593.48

EROSION CONTROL

Grass seed & fertilizer	0.33	ac @	\$500.00	per ac =	\$162.50
-------------------------	------	------	----------	----------	----------

TOTAL EROSION CONTROL COSTS = \$162.50

TOTAL PROJECT COST = \$9,670.78

SUMMARY OF CONSTRUCTION COST

Timber Sale: Sunset Music
 Road Segment: Point Q

Sale Number: FG-341-2022-W00481-01

PROJECT NO. 1: BLOCKING

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Surfacing rock						
Blocking Boulders	36"-24"	\$9.33	\$ 2.64	\$1.60	8	\$108.56
				Subtotal =	8	\$108.56

Totals	All Rock =	8
	Boulders	8

TOTAL ROCK COSTS = \$108.56

TOTAL PROJECT COST = \$108.56

SUMMARY OF CONSTRUCTION COST

Timber Sale: Sunset Music
Road Segment: Point R

Sale Number: FG-341-2022-W00481-01

PROJECT NO. 1: BLOCKING

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Surfacing rock						
Blocking Boulders	36"-24"	\$9.33	\$ 2.64	\$1.60	8	\$108.56
				Subtotal =	8	\$108.56

Totals	All Rock =	8
	Boulders	8

TOTAL ROCK COSTS = \$108.56

TOTAL PROJECT COST = \$108.56

SUMMARY OF CONSTRUCTION COST

Timber Sale: Sunset Music
 Road Segment: S to A

Sale Number: FG-341-2022-W00481-01
 Improvement: 176+00 stations
3.33 miles

PROJECT NO. 2

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Surfacing rock						
Spot Rock	4" - 0	\$9.33	\$2.95	\$1.22	1,000	\$13,500.00
				Subtotal =	1,000	\$13,500.00

Totals	All Rock =	1,000
	4" - 0 =	1,000

TOTAL ROCK COSTS = \$13,500.00

TOTAL PROJECT COST = \$13,500.00

SUMMARY OF CONSTRUCTION COST

Timber Sale: Sunset Music
 Road Segment: O to P

Sale Number: FG-341-2022-W00481-01
 Vacate: 5+60 stations
0.11 miles

PROJECT NO. 3: ROAD VACATING AND BLOCKING

VACATING

Construct large berm	1	ea @	\$150.00	per ea =	\$150.00
Rip rocked road surface	5.10	sta @	\$50.00	per sta =	\$255.00
Rip landing	1	ea @	\$150.00	per ea =	\$150.00
TOTAL VACATING COSTS =					\$555.00

EROSION CONTROL

Grass seed & fertilizer	0.21	ac @	\$425.00	per ac =	\$87.42
Straw mulch (acre)	0.21	ac @	\$600.00	per ac =	\$123.42
TOTAL EROSION CONTROL COSTS =					\$210.84

TOTAL PROJECT COST = \$765.84

SUMMARY OF CONSTRUCTION COST

Timber Sale: Sunset Music

Sale Number: FG-341-2022-W00481-01

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

<u>Equipment</u>	<u>Total</u>
Grader	\$686.11
Roller (smooth/grid) & Compactor	\$445.25
Excavator (Large) - Equipment Cleaning	\$1,686.11
Dozer (Large) - Equipment Cleaning	\$1,730.69
Dump Truck (10cy +)	\$288.56
<u>TOTAL MOVE-IN COSTS =</u>	<u>\$4,836.72</u>

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

<u>Equipment</u>	<u>Total</u>
Excavator (Large) - Equipment Cleaning	\$1,686.11
<u>TOTAL MOVE-IN COSTS =</u>	<u>\$1,686.11</u>

QUARRY DEVELOPMENT & CRUSHING COST SUMMARY

Timber Sale: Sunset Music
Sale Number: FG-341-2022-W00481-01
Quarry Name: West Mac

4" - 0: 13,259 cy (truck measure)
Boulders 24 cy (truck measure)
Total truck yardage: 13,283 cy
Total in place yardage: 12,021 cy
Oversize - Pile: 15%
Swell: 130%
Compaction: 116%

Move-in & Other Base Cost

Equipment cleaning & move in excavator				\$2,044.92
Equipment cleaning & move in dozer				\$2,005.50
Move in loader				\$903.65
Move in & setup crusher				\$1,180.00
Move in Dump Trucks				\$468.00
Gradation tests	\$71.50 /2,000cy x	<u>7</u>	tests =	\$500.50
Clean up quarry				\$500.00
			Subtotal =	<u>\$7,602.57</u>
			Per CY =	<u>\$0.57/cy</u>

4"-0 Base Cost

Drill & shoot	<u>\$2.80</u>	/ cy x	<u>11,999</u>	cy =	\$33,597.47
Push rock	<u>\$1.60</u>	/ cy x	<u>15,599</u>	cy =	\$24,958.12
Oversize - Pile	<u>\$0.80</u>	/ cy x	<u>2,340</u>	cy =	\$1,871.86
Load crusher	<u>\$0.80</u>	/ cy x	<u>13,259</u>	cy =	\$10,607.20
Crush (4" - 0)	<u>\$2.60</u>	/ cy x	<u>13,259</u>	cy =	\$34,473.40
Load dump truck	<u>\$0.80</u>	/ cy x	<u>13,259</u>	cy =	\$10,607.20
			Subtotal =	<u>\$116,115.24</u>	
			Per CY =	<u>\$8.76/cy</u>	

4"-0 Base Cost = **\$9.33/cy**

RESIDUAL STAND SPECIFICATIONS

Sunset Music
#FG-341-2022-W00481-01

Unit 1

Residual QMD assumption (from leave tree cruise information) =

20

Target Relative Density =

29

	Minimum	Target	Maximum
Relative Density	27	29	31
Basal Area	120	130	140
Trees per Acre	55	60	64

Unit 2

Residual QMD assumption (from leave tree cruise information) =

22

Target Relative Density =

38

	Minimum	Target	Maximum
Relative Density	36	38	41
Basal Area	170	180	190
Trees per Acre	64	68	72

$RD = BA / \sqrt{DBH}$
 $BA = \sqrt{DBH} (RD)$
 $TPA = (BA/acre) / (BA/tree)$
 $BA / tree = (\pi r^2) / (144)$

CRUISE REPORT
Sunset Music
FG-341-2022-W00481-01

1. LOCATION: Portions of Sections 2 & 3, T3N, R6W, W.M., Tillamook County, Oregon
Portions of Sections 34 & 35, T4N, R6W, W.M., Clatsop County, Oregon

2. CRUISE DESIGN: Pre-cruise evaluation indicated that the stand's average DBH is approximately 19 inches, and the coefficient of variation is about 57%. 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. Statistical analysis indicated that 45 variable radius plots utilizing a 20 BAF prism would produce an adequate sample size.

3. SAMPLING METHOD:

The Timber Sale Area was sampled in May 2021 with 45 variable radius grade plots using a 20 BAF prism. Plots were laid out on a 10-chain x 6 chain grid for Units 1 and 2. Plots falling on or near existing roads or no-harvest areas were offset 1 chain. In Unit 1 cruisers chose 'take' trees as though thinning from below to 130 ft² of basal area. In Unit 2 cruisers chose 'take' trees as though thinning from below to 180 ft² of basal area.

4. CRUISE RESULTS:

255 'take' trees were measured and graded producing a cumulative Sampling Error of 11.4% on the Douglas-fir basal area per acre and 11.4% for the Douglas-fir net board foot volume per acre.

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 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 Super Ace 2008 cruise software.
- b) **Deductions:** Two percent of the volume was subtracted from the computed volumes to account for hidden defect and breakage.

7. CRUISERS: The sale was cruised by ODF cruisers Adrian Torres, Mark Savage, and Kenton Burns.

Prepared by: Adrian Torres 05/26/2021
Date

Reviewed by: Mark Savage 05/26/2021
Date

TC		PSPCSTGR		Species, Sort Grade - Board Foot Volumes (Project)																	
TT3N RR6W S02 Ty0PCL79.00				Project: SUNMIC												Page 1					
				Acres 79.00												Date 5/25/2021 Time 10:37:59AM					
S So Gr			%	Bd. Ft. per Acre			Total	Percent of Net Board Foot Volume								Average Log				Logs	
Spp	T	rt ad	Net BdFt	Def%	Gross	Net		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	T	CU															6	8		0.00	4.0
DF	T	2M	51	1.1	13,438	13,284	1,049				70	30	1		99		40	14	310	1.65	42.8
DF	T	3M	43	.4	11,192	11,150	881			85	11	4		5	4	92	39	9	116	0.69	95.9
DF	T	4M	6	.6	1,551	1,541	122			100			32	27	29	12	23	6	30	0.33	50.8
DF Totals			49	.8	26,181	25,975	2,052			42	41	17	3	4	3	90	34	9	134	0.87	193.5
DF	L	2M	6	1.7	1,047	1,029	81				63	37			100		40	15	371	1.89	2.8
DF	L	3M	93	.0	14,996	14,992	1,184			16	31	52		17	41	43	34	12	222	1.31	67.7
DF	L	4M	1	7.1	63	59	5			100			28		72		26	6	33	0.40	1.7
DF Totals			30	.2	16,106	16,080	1,270			15	33	51	0	16	38	46	34	12	223	1.32	72.2
WH	L	2M	17		1,817	1,817	144				69	31			100		40	15	342	1.57	5.3
WH	L	3M	76		8,038	8,038	635			58	32	9		5	32	63	37	9	128	0.75	63.0
WH	L	4M	7	3.1	697	675	53			100			13	67	20		26	6	34	0.34	19.8
WH Totals			20	.2	10,552	10,530	832			51	37	12	1	8	25	66	35	9	120	0.74	88.1
RC	L	2M	15		135	135	11				100				100		40	15	360	2.32	.4
RC	L	3M	50		422	422	33			61	12	26		41	59		37	9	111	0.85	3.8
RC	L	4M	12		104	104	8			100			72	28			18	6	22	0.29	4.7
RC	L	CR	23		189	189	15			17	83				17	83	38	11	175	1.12	1.1
RC Totals			2		849	849	67			47	40	13	9	24	4	64	28	8	85	0.79	9.9
Totals				0.5	53,688	53,434	4,221			36	38	26	2	8	18	72	34	10	147	0.93	363.8

TC PSTATS				PROJECT STATISTICS					PAGE	1			
				PROJECT		SUNMIC		DATE	5/25/2021				
TWP	RGE	SC	TRACT	TYPE		ACRES		PLOTS	TREES	CuFt	BdFt		
T3N	R6	02	00A1	0PCL		79.00		17	239	S	W		
				TREES		ESTIMATED		PERCENT					
				PER PLOT		TOTAL		SAMPLE					
				TREES		TREES		TREES					
TOTAL				17	239	14.1							
CRUISE				17	239	14.1		12,082		2.0			
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-L				60	22.7	23.3	140	13.9	67.2	16,106	16,080	3,290	3,290
DOUG FIR-T				122	77.5	17.5	122	31.1	130.1	26,181	25,975	5,765	5,765
WHEMLOCK-L				51	45.8	14.9	95	14.4	55.5	10,552	10,530	2,245	2,245
WR CEDAR-L				6	7.1	13.5	73	1.9	7.1	849	849	223	223
TOTAL				239	152.9	17.7	115	61.9	259.9	53,688	53,434	11,523	11,523
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-L		49.3	6.4	809		864	918						
DOUG FIR-T		64.3	5.8	431		457	484						
WHEMLOCK-L		79.0	11.0	314		354	393						
WR CEDAR-L		83.3	37.1	170		270	370						
TOTAL		71.6	4.6	508		533	557	205		51	23		
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-L		42.4	5.5	164		173	183						
DOUG FIR-T		57.9	5.2	95		100	105						
WHEMLOCK-L		71.7	10.0	66		73	81						
WR CEDAR-L		78.6	35.0	45		69	92						
TOTAL		63.6	4.1	107		112	116	162		40	18		
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-L		93.8	23.4	17		23	28						
DOUG FIR-T		78.0	19.5	62		77	93						
WHEMLOCK-L		153.8	38.4	28		46	63						
WR CEDAR-L		213.1	53.2	3		7	11						
TOTAL		51.2	12.8	133		153	173	111		28	12		
CL	68.1	COEFF		BASAL AREA/ACRE					# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH			5	10	15		
DOUG FIR-L		76.2	19.0	54		67	80						
DOUG FIR-T		72.9	18.2	106		130	154						
WHEMLOCK-L		145.7	36.4	35		56	76						
WR CEDAR-L		171.8	42.9	4		7	10						
TOTAL		41.4	10.3	233		260	287	73		18	8		
CL	68.1	COEFF		NET BF/ACRE					# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH			5	10	15		
DOUG FIR-L		72.9	18.2	13,152		16,080	19,008						
DOUG FIR-T		71.9	18.0	21,309		25,975	30,641						
WHEMLOCK-L		145.3	36.3	6,709		10,530	14,351						
WR CEDAR-L		201.3	50.3	422		849	1,277						

TC PSTATS				<u>PROJECT STATISTICS</u>					PAGE	2
				PROJECT	SUNMIC			DATE	5/25/2021	
TWP	RGE	SC	TRACT	TYPE	ACRES		PLOTS	TREES	CuFt	BdFt
T3N	R6	02	00A1	0PCL	79.00		17	239	S	W
CL	68.1		COEFF	NET BF/ACRE				# OF PLOTS REQ.		INF. POP.
SD:	1.00		VAR.	S.E.%	LOW	AVG	HIGH	5	10	15
TOTAL			41.7	10.4	47,871	53,434	58,998	74	18	8
CL	68.1		COEFF	NET CUFT FT/ACRE				# OF PLOTS REQ.		INF. POP.
SD:	1.0		VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DOUG FIR-L			74.1	18.5	2,681	3,290	3,899			
DOUG FIR-T			72.6	18.1	4,720	5,765	6,811			
WHEMLOCK-L			145.7	36.4	1,428	2,245	3,062			
WR CEDAR-L			196.6	49.1	113	223	332			
TOTAL			41.5	10.4	10,328	11,523	12,718	73	18	8

TC		PSTNDSUM		Stand Table Summary										Page		1	
														Date:		5/25/2021	
TT3N RR6W S02 Ty0PCL79.00				Project		SUNMIC		Time:		10:38:00AM							
				Acres		79.00		Grown Year:									
S SpC	T	Sample		Tot		Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net		Net		T o t a l s		
		DBH	Trees	FF 16'	Av Ht				Net Cu.Ft.	Net Bd.Ft.	Tons/ Acre	Cu.Ft. Acre	Bd.Ft. Acre	Tons	Cunits	MBF	
DF T		8	1	86	63	3.370	1.18	3.37	4.4	20.0	.42	15	67	33	12	5	
DF T		9	1	86	79	2.663	1.18	2.66	8.7	50.0	.66	23	133	52	18	11	
DF T		10	1	86	84	2.157	1.18	2.16	12.8	60.0	.78	28	129	62	22	10	
DF T		11	2	88	99	3.565	2.35	7.13	9.9	42.5	2.00	70	303	158	56	24	
DF T		12	2	86	95	2.996	2.35	5.99	10.2	42.5	1.74	61	255	138	48	20	
DF T		13	1	85	118	1.276	1.18	2.55	16.0	70.0	1.16	41	179	92	32	14	
DF T		14	7	88	121	6.658	7.12	13.32	20.5	93.4	7.76	272	1,244	613	215	98	
DF T		15	11	88	119	8.724	10.71	19.37	21.0	93.2	11.58	406	1,804	915	321	143	
DF T		16	9	88	127	4.381	6.12	10.62	23.6	101.9	7.13	250	1,082	563	198	85	
DF T		17	13	88	127	8.994	14.18	24.00	25.3	109.3	17.31	607	2,624	1,367	480	207	
DF T		18	14	87	133	7.423	13.12	21.60	27.6	114.0	16.97	595	2,462	1,340	470	194	
DF T		19	8	87	135	4.780	9.41	13.74	30.7	131.7	12.02	422	1,810	949	333	143	
DF T		20	6	87	129	3.236	7.06	9.71	31.8	132.2	8.79	308	1,283	694	244	101	
DF T		21	7	89	142	2.959	7.12	8.88	39.6	194.5	10.02	352	1,726	792	278	136	
DF T		22	9	87	139	4.011	10.59	12.48	40.6	187.1	14.45	507	2,335	1,142	401	184	
DF T		23	6	87	143	2.447	7.06	7.34	47.9	216.7	10.02	352	1,590	792	278	126	
DF T		24	8	87	145	2.996	9.41	9.36	49.8	228.4	13.29	466	2,138	1,050	368	169	
DF T		25	4	88	145	1.380	4.71	4.14	57.1	265.0	6.74	236	1,097	532	187	87	
DF T		26	4	88	145	1.276	4.71	4.15	57.6	279.2	6.81	239	1,158	538	189	92	
DF T		27	1	86	151	.296	1.18	.89	68.8	303.3	1.74	61	269	137	48	21	
DF T		28	5	86	158	1.376	5.88	4.40	72.5	361.9	9.09	319	1,593	718	252	126	
DF T		29	1	89	150	.256	1.18	.77	81.5	396.7	1.79	63	305	141	50	24	
DF T		30	1	89	180	.240	1.18	.96	74.5	402.5	2.04	71	386	161	56	30	
DF T		Totals	122	87	122	77.461	130.12	189.58	30.4	137.0	164.31	5,765	25,975	12,981	4,555	2,052	
DF L		11	1	86	110	1.783	1.18	3.57	10.4	45.0	1.05	37	160	83	29	13	
DF L		15	1	85	110	.959	1.18	1.92	22.4	100.0	1.22	43	192	97	34	15	
DF L		18	3	86	125	1.365	2.41	4.09	25.1	115.4	2.93	103	472	232	81	37	
DF L		19	1	86	130	.598	1.18	1.79	27.4	120.0	1.40	49	215	111	39	17	
DF L		20	4	87	133	2.157	4.71	6.47	32.9	148.3	6.07	213	960	480	168	76	
DF L		21	1	89	142	.489	1.18	1.47	39.9	196.7	1.67	59	289	132	46	23	
DF L		22	5	87	135	1.805	4.76	5.41	40.9	181.2	6.31	222	981	499	175	78	
DF L		23	3	85	137	1.223	3.53	3.67	44.7	198.9	4.67	164	730	369	129	58	
DF L		24	12	87	144	4.494	14.12	14.23	48.7	228.2	19.75	693	3,247	1,560	547	256	
DF L		25	6	86	150	2.071	7.06	7.94	43.4	218.7	9.81	344	1,736	775	272	137	
DF L		26	2	86	140	.335	1.24	1.01	59.1	269.7	1.69	59	271	134	47	21	
DF L		27	2	87	142	.592	2.35	1.78	66.0	315.0	3.34	117	559	264	93	44	
DF L		28	11	86	156	3.026	12.94	11.83	56.3	293.0	18.99	666	3,467	1,500	526	274	
DF L		29	1	85	160	.256	1.18	1.03	60.3	315.0	1.76	62	323	139	49	26	
DF L		30	3	85	160	.719	3.53	2.88	66.0	350.0	5.41	190	1,007	428	150	80	
DF L		31	1	90	180	.224	1.18	.90	80.8	447.5	2.07	73	402	163	57	32	
DF L		32	1	86	170	.211	1.18	.84	79.5	427.5	1.91	67	360	151	53	28	
DF L		33	1	86	160	.198	1.18	.79	80.6	435.0	1.82	64	345	144	50	27	
DF L		38	1	86	170	.149	1.18	.60	110.7	610.0	1.88	66	364	149	52	29	
DF L		Totals	60	86	140	22.654	67.24	72.20	45.6	222.7	93.77	3,290	16,080	7,408	2,599	1,270	
WHL		10	6	87	62	12.942	7.06	15.10	10.0	42.9	4.85	151	647	383	120	51	
WHL		11	1	89	85	1.783	1.18	1.78	16.3	70.0	.93	29	125	73	23	10	
WHL		12	3	91	78	4.494	3.53	5.99	15.7	65.0	3.02	94	389	239	75	31	
WHL		13	1	92	94	1.276	1.18	2.55	16.1	75.0	1.32	41	191	104	32	15	
WHL		14	5	92	101	5.503	5.88	11.01	20.2	94.0	7.11	222	1,034	562	176	82	
WHL		15	4	92	106	2.013	2.47	4.12	23.3	105.3	3.07	96	434	242	76	34	
WHL		16	6	91	113	5.056	7.06	10.95	27.5	125.4	9.64	301	1,373	761	238	108	
WHL		17	3	93	106	2.239	3.53	5.22	27.2	118.6	4.55	142	619	360	112	49	

TC		PSTNDSUM										Stand Table Summary										Page		2	
																						Date:		5/25/2021	
TT3N RR6W S02 Ty0PCL					79.00					Project					SUNMIC					Time:		10:38:00AM			
										Acres					79.00					Grown Year:					
S SpC	T	Tot						Average Log					Totals												
		DBH	Sample Trees	FF 16'	Av Ht	Trees/ Acre	BA/ Acre	Logs Acre	Net Cu.Ft.	Net Bd.Ft.	Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Tons	Cunits	MBF									
WH L		18	6	90	127	3.362	5.94	10.09	27.5	128.7	8.87	277	1,298	701	219	103									
WH L		19	4	93	132	1.822	3.59	5.47	33.2	172.3	5.81	182	942	459	143	74									
WH L		20	2	82	130	1.079	2.35	3.24	31.9	138.3	3.30	103	448	261	81	35									
WH L		21	4	94	131	1.956	4.71	5.87	40.6	201.7	7.62	238	1,184	602	188	94									
WH L		22	3	93	132	1.337	3.53	4.01	45.2	223.3	5.80	181	896	458	143	71									
WH L		25	1	93	129	.345	1.18	1.04	58.6	290.0	1.94	61	300	153	48	24									
WH L		26	1	85	130	.319	1.18	.96	60.0	286.7	1.84	57	274	145	45	22									
WH L		30	1	93	148	.240	1.18	.72	94.9	520.0	2.18	68	374	173	54	30									
WH L		Totals	51	90	95	45.766	55.53	88.11	25.5	119.5	71.84	2,245	10,530	5,675	1,773	832									
RC L		8	1	80	52	3.370	1.18	3.37	4.4	20.0	.35	15	67	27	12	5									
RC L		12	1	80	75	1.498	1.18	1.50	19.6	60.0	.69	29	90	55	23	7									
RC L		15	1	81	101	.959	1.18	1.92	22.8	75.0	1.03	44	144	81	35	11									
RC L		20	1	93	98	.539	1.18	1.08	42.1	175.0	1.07	45	189	84	36	15									
RC L		24	1	80	118	.374	1.18	1.12	43.5	166.7	1.15	49	187	91	39	15									
RC L		26	1	80	100	.319	1.18	.96	42.2	180.0	.95	40	172	75	32	14									
RC L		Totals	6	81	73	7.060	7.06	9.94	22.4	85.4	5.23	223	849	413	176	67									
Totals		239			88	115	152.940	259.94	359.84	32.0	148.5	335.15	11,523	53,434	26,477	9,103	4,221								

TC		PLOGSTVB		Log Stock Table - MBF																	
TT3N RR6W S02 Ty0PCL79.00				Project:		SUNMIC												Page		1	
				Acres		79.00												Date		5/25/2021	
																		Time		10:37:58AM	
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	T	2M	20	15		15	.7							15							
DF	T	2M	40	1,046	1.2	1,034	50.4					397	195	351	91						
DF	T	3M	30	41		41	2.0					4	8	29							
DF	T	3M	31	5		5	.2			1			4								
DF	T	3M	32	25		25	1.2			1		15	9								
DF	T	3M	34	2		2	.1			2											
DF	T	3M	36	25		25	1.2			2			24								
DF	T	3M	37	27		27	1.3			2		7	6		13						
DF	T	3M	38	12		12	.6			6			6								
DF	T	3M	39	2		2	.1			2											
DF	T	3M	40	744		741	36.1			164	201	344	32								
DF	T	4M	12	2		2	.1			2											
DF	T	4M	13	6		6	.3			6											
DF	T	4M	14	7		7	.3			7											
DF	T	4M	15	4		4	.2			4											
DF	T	4M	16	8		8	.4			8											
DF	T	4M	17	2		2	.1			2											
DF	T	4M	18	3		3	.2			1	2										
DF	T	4M	19	6		6	.3			6											
DF	T	4M	20	1		1	.1			1											
DF	T	4M	21	2		2	.1			2											
DF	T	4M	22	2		2	.1			2											
DF	T	4M	23	3		3	.2			3											
DF	T	4M	24	6		6	.3			6											
DF	T	4M	25	2		2	.1			2											
DF	T	4M	26	2		2	.1			2											
DF	T	4M	27	2		2	.1			2											
DF	T	4M	28	2		2	.1			2											
DF	T	4M	29	8	9.1	8	.4			8											
DF	T	4M	30	3		3	.2			3											
DF	T	4M	31	6		6	.3			6											
DF	T	4M	32	16		16	.8			16											
DF	T	4M	33	4		4	.2			4											
DF	T	4M	34	7		7	.4			7											
DF	T	4M	35	2		2	.1			2											
DF	T	4M	36	7		7	.4			7											
DF	T	4M	38	4		4	.2			4											

TC		PLOGSTVB		Log Stock Table - MBF																	
TT3N RR6W S02 Ty0PCL				79.00		Project:		SUNMIC										Page		2	
						Acres		79.00										Date		5/25/2021	
																		Time		10:37:58AM	
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	T	4M 40	4		4	.2			4												
DF		Totals	2,068		2,052	48.6			300	203	369	454	226	409	91						
DF	L	2M 40	83	1.7	81	6.4					17	25	22	17							
DF	L	3M 28	7		7	.6			7												
DF	L	3M 29	9		9	.7					9										
DF	L	3M 30	181		181	14.2		8		28		45	66	34							
DF	L	3M 31	26		26	2.0		2					23								
DF	L	3M 32	191		191	15.1		11		16	29	27	21	86							
DF	L	3M 33	85		85	6.7					4		41	39							
DF	L	3M 34	176		176	13.9		18		13	53	25	44	9	13						
DF	L	3M 35	4		4	.3		4													
DF	L	3M 36	100		100	7.9		2		7		18	45	14	15						
DF	L	3M 37	105		105	8.3		1			6		89	9							
DF	L	3M 38	194		194	15.2		26		11	64	11	66	16							
DF	L	3M 39	23		23	1.8		3				6	13								
DF	L	3M 40	81		80	6.3		9	5	16	14	7	28								
DF	L	3M 41	2		2	.2		2													
DF	L	4M 19	1		1	.1		1													
DF	L	4M 32	4	9.5	3	.3		3													
DF		Totals	1,272		1,270	30.1			93	12	90	198	165	460	224	28					
WH	L	2M 40	144		144	17.3					39	31	56	18							
WH	L	3M 26	1		1	.1					1										
WH	L	3M 27	1		1	.1			1												
WH	L	3M 28	0		0	.0		0													
WH	L	3M 30	29		29	3.4				6	11	12									
WH	L	3M 31	29		29	3.4		2		7	19										
WH	L	3M 32	53		53	6.3		8	4	21	20										
WH	L	3M 33	17		17	2.0		17													
WH	L	3M 34	58		58	7.0		8		7		28	15								
WH	L	3M 35	49		49	5.9				8		15	27								
WH	L	3M 36	77		77	9.3		13		8	21	7	28								
WH	L	3M 37	2		2	.2		2													
WH	L	3M 38	90		90	10.8		11		36	27		15								
WH	L	3M 39	23		23	2.7		11			11										
WH	L	3M 40	203		203	24.4		55	40	102	7										
WH	L	3M 41	5		5	.6		5													

TC		PLOGSTVB		Log Stock Table - MBF															
TT3N RR6W S02 Ty0PCL 79.00				Project: SUNMIC		Acres 79.00		Page 3											
								Date 5/25/2021											
								Time 10:37:58AM											
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	L	4M	15	4		4	.5			4									
WH	L	4M	18	1		1	.1			1									
WH	L	4M	20	2		2	.2			2									
WH	L	4M	21	4		4	.4			4									
WH	L	4M	24	4		4	.5			4									
WH	L	4M	25	2		2	.2			2									
WH	L	4M	26	3		3	.4			3									
WH	L	4M	28	1		1	.1			1									
WH	L	4M	29	14	12.5	12	1.4			12									
WH	L	4M	30	10		10	1.2			10									
WH	L	4M	38	5		5	.6			5									
WH	L	4M	40	5		5	.6			5									
WH		Totals		834		832	19.7			186	44	194	156	92	142	18			
RC	L	2M	40	11		11	15.9							11					
RC	L	3M	26	9		9	13.1							9					
RC	L	3M	27	4		4	6.0					4							
RC	L	3M	28	1		1	1.1			1									
RC	L	3M	40	20		20	29.4			7	13								
RC	L	4M	14	1		1	.9			1									
RC	L	4M	16	5		5	7.9			5									
RC	L	4M	28	2		2	3.4			2									
RC	L	CR	35	3		3	3.8			3									
RC	L	CR	40	12		12	18.4							12					
RC		Totals		67		67	1.6			19	13		4	23	9				
Total		All Species		4,241		4,221	100.0			597	272	653	811	507	1019	334	28		

TC PSTATS				PROJECT STATISTICS						PAGE 1		
				PROJECT		SUNMIC		DATE		5/25/2021		
TWP	RGE	SC	TRACT	TYPE		ACRES		PLOTS	TREES	CuFt	BdFt	
T3N	R6	02	00A2	0PCM		161.00		28	386	S	W	
				TREES		ESTIMATED		PERCENT				
				PER PLOT		TOTAL		SAMPLE				
				TREES		TREES		TREES				
TOTAL			28	386	13.8							
CRUISE			28	386	13.8		19,830		1.9			
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-L			187	43.3	23.8	143	27.4	133.6	35,136	35,112	6,793	6,793
DOUG FIR-T			133	51.7	18.4	129	22.2	95.0	21,233	21,088	4,486	4,486
WHEMLOCK-L			62	27.2	17.3	112	10.7	44.3	10,151	10,068	2,072	2,072
WR CEDAR-L			3	.6	25.2	109	0.4	2.1	334	329	90	90
R ALDER-L			1	.4	18.0	102	0.2	.7	125	125	29	29
TOTAL			386	123.2	20.3	130	61.3	275.7	66,980	66,722	13,470	13,470
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-L		56.7	4.1	1,022	1,066	1,110						
DOUG FIR-T		62.8	5.4	553	585	617						
WHEMLOCK-L		89.3	11.3	527	594	662						
WR CEDAR-L		79.7	55.2	297	663	1,029						
R ALDER-L												
TOTAL		69.7	3.5	790	819	848			194	49	22	
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-L		50.0	3.7	194	201	208						
DOUG FIR-T		56.5	4.9	116	122	128						
WHEMLOCK-L		77.7	9.9	106	117	129						
WR CEDAR-L		62.9	43.5	97	172	247						
R ALDER-L												
TOTAL		61.0	3.1	155	160	165			149	37	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-L		70.0	13.5	37	43	49						
DOUG FIR-T		96.9	18.6	42	52	61						
WHEMLOCK-L		116.9	22.5	21	27	33						
WR CEDAR-L		309.1	59.4	0	1	1						
R ALDER-L		529.2	101.8		0	1						
TOTAL		43.6	8.4	113	123	133			79	20	9	
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-L		34.6	6.7	125	134	142						
DOUG FIR-T		80.3	15.5	80	95	110						
WHEMLOCK-L		142.5	27.4	32	44	56						
WR CEDAR-L		294.0	56.5	1	2	3						
R ALDER-L		529.2	101.8		1	1						
TOTAL		27.8	5.3	261	276	290			32	8	4	

PROJECT STATISTICS**PROJECT** **SUNMIC**

DATE 5/25/2021

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
T3N	R6	02	00A2	0PCM	161.00	28	386	S	W

CL	68.1	COEFF	NET BF/ACRE			# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DOUG FIR-L		37.4	7.2	32,589	35,112	37,634			
DOUG FIR-T		80.8	15.5	17,812	21,088	24,363			
WHEMLOCK-L		186.0	35.8	6,466	10,068	13,670			
WR CEDAR-L		306.7	59.0	135	329	524			
R ALDER-L		529.2	101.8		125	253			
TOTAL		33.6	6.5	62,406	66,722	71,038	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-L		35.0	6.7	6,335	6,793	7,251			
DOUG FIR-T		80.7	15.5	3,790	4,486	5,183			
WHEMLOCK-L		173.2	33.3	1,382	2,072	2,763			
WR CEDAR-L		296.9	57.1	39	90	141			
R ALDER-L		529.2	101.8		29	59			
TOTAL		31.9	6.1	12,645	13,470	14,296	42	11	5

TC		PSPCSTGR		Species, Sort Grade - Board Foot Volumes (Project)																	
TT3N RR6W S02 Ty0PC161.00				Project: SUNMIC												Page 1					
				Acres 161.00												Date 5/25/2021					
																Time 10:43:23AM					
S So Gr			%	Bd. Ft. per Acre			Total	Percent of Net Board Foot Volume								Average Log				Logs	
Spp	T	rt ad	Net	Def%	Gross	Net		Log Scale Dia.				Log Length				Ln	Dia	Bd	CF/	Per	
								4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99						
DF	L	2M	24	.3	8,797	8,773	1,412			24	76				100	40	17	516	2.31	17.0	
DF	L	3M	75	.0	26,029	26,029	4,191			17	30	53		16	39	44	35	12	236	1.34	110.3
DF	L	4M	1		309	309	50			100			19	64	13	4	25	6	34	0.39	9.2
DF Totals			53	.1	35,136	35,112	5,653			13	28	58	0	13	29	58	35	12	257	1.43	136.5
DF	T	CU															3	8		0.00	2.3
DF	T	2M	61	.9	13,022	12,901	2,077				59	41	1		99	40	15	349	1.75	36.9	
DF	T	3M	31	.4	6,637	6,613	1,065			95	5				1	99	40	9	119	0.69	55.8
DF	T	4M	8		1,574	1,574	253			100			12	27	35	26	28	6	39	0.35	40.0
DF Totals			32	.7	21,233	21,088	3,395			37	37	25	2	2	3	94	36	10	156	0.93	135.0
WH	L	CU															6	16		0.00	.4
WH	L	2M	47	.6	4,855	4,824	777				52	48			100	40	15	391	1.77	12.3	
WH	L	3M	48	.4	4,808	4,788	771			60	26	14		19	21	59	35	9	116	0.75	41.3
WH	L	4M	5	6.7	489	456	73			100			3	35	6	56	31	6	47	0.45	9.7
WH Totals			15	.8	10,151	10,068	1,621			33	37	30	0	11	10	79	35	10	158	0.93	63.7
RC	L	2M	88	1.6	296	291	47				65	35			100	40	16	394	2.50	.7	
RC	L	3M	12		38	38	6			100					22	78	39	6	62	0.67	.6
RC Totals			0	1.4	334	329	53			12	58	31			3	97	39	11	243	1.68	1.4
RA	L	CR	100		125	125	20			23	77				100	39	10	155	0.93	.8	
RA Totals			0		125	125	20			23	77				100	39	10	155	0.93	.8	
Totals				0.4	66,980	66,722	10,742			24	33	43	1	9	18	73	35	11	198	1.14	337.4

TC		PSTNDSUM		Stand Table Summary									Page		1		
													Date:		5/25/2021		
TT3N RR6W S02 Ty0PC161.00				Project		SUNMIC		Time:		10:43:24AM							
				Acres		161.00		Grown Year:									
S SpC	T	Sample		Tot		Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net		Net		Totals		
		DBH	Trees	FF 16'	Av Ht				Net Cu.Ft.	Net Bd.Ft.	Tons/ Acre	Cu.Ft. Acre	Bd.Ft. Acre	Tons	Cunits	MBF	
DF L		9	1	86	70	1.617	.71	1.62	8.2	40.0	.38	13	65	61	21	10	
DF L		11	1	89	109	1.082	.71	2.16	10.4	45.0	.64	23	97	104	36	16	
DF L		12	1	89	110	.909	.71	1.82	13.6	60.0	.71	25	109	114	40	18	
DF L		14	1	90	126	.668	.71	2.00	13.6	60.0	.78	27	120	125	44	19	
DF L		15	3	88	123	1.746	2.14	4.07	20.7	91.4	2.40	84	373	386	135	60	
DF L		16	3	88	122	1.535	2.14	3.58	23.5	102.9	2.39	84	368	385	135	59	
DF L		17	2	87	125	.906	1.43	2.27	26.3	122.0	1.70	60	276	273	96	45	
DF L		18	1	90	135	.404	.71	1.21	26.7	130.0	.92	32	158	148	52	25	
DF L		19	3	87	133	1.088	2.14	3.26	29.0	132.2	2.70	95	432	434	152	70	
DF L		20	8	87	134	2.619	5.71	6.88	33.4	152.9	6.54	229	1,051	1,053	369	169	
DF L		21	5	88	136	1.485	3.57	3.56	37.8	182.5	3.84	135	650	618	217	105	
DF L		22	14	87	139	3.788	10.00	11.64	40.8	189.1	13.52	474	2,200	2,176	764	354	
DF L		23	10	88	147	2.476	7.14	7.92	45.7	217.8	10.33	362	1,726	1,663	583	278	
DF L		24	19	88	149	4.320	13.57	15.01	45.6	225.9	19.51	685	3,390	3,141	1,102	546	
DF L		25	16	88	150	3.353	11.43	11.73	49.6	248.7	16.60	583	2,919	2,673	938	470	
DF L		26	22	88	154	4.262	15.71	15.50	53.6	277.2	23.69	831	4,297	3,814	1,338	692	
DF L		27	12	89	161	2.156	8.57	7.90	55.0	298.0	12.39	435	2,355	1,995	700	379	
DF L		28	9	88	161	1.503	6.43	6.01	58.8	318.1	10.09	354	1,913	1,624	570	308	
DF L		29	11	89	164	1.713	7.86	6.70	66.9	363.0	12.77	448	2,431	2,056	722	391	
DF L		30	15	88	162	2.183	10.71	8.29	71.7	391.8	16.94	595	3,249	2,728	957	523	
DF L		31	3	90	176	.409	2.14	1.64	79.4	442.5	3.70	130	724	596	209	117	
DF L		32	7	87	168	.895	5.00	3.07	80.9	445.0	7.07	248	1,366	1,139	400	220	
DF L		33	6	90	173	.722	4.29	2.89	90.3	520.0	7.43	261	1,501	1,196	419	242	
DF L		34	5	89	169	.566	3.57	2.27	92.3	529.5	5.96	209	1,200	959	337	193	
DF L		35	5	89	168	.535	3.57	2.14	97.1	559.5	5.92	208	1,196	953	334	193	
DF L		36	1	86	160	.101	.71	.40	93.9	520.0	1.08	38	210	174	61	34	
DF L		37	1	89	174	.096	.71	.38	115.2	677.5	1.26	44	259	202	71	42	
DF L		38	1	89	173	.091	.71	.36	119.5	702.5	1.24	43	255	199	70	41	
DF L		45	1	85	160	.065	.71	.26	151.5	860.0	1.12	39	222	180	63	36	
DF L		Totals	187	88	143	43.292	133.57	136.55	49.7	257.1	193.59	6,793	35,112	31,169	10,936	5,653	
DF T		9	1	86	77	1.617	.71	1.62	8.7	50.0	.40	14	81	65	23	13	
DF T		10	1	86	69	1.310	.71	1.31	11.2	50.0	.42	15	65	67	24	11	
DF T		11	3	88	97	3.247	2.14	5.41	10.8	50.0	1.66	58	271	267	94	44	
DF T		12	4	89	119	3.638	2.86	7.28	14.5	67.5	3.00	105	491	483	169	79	
DF T		13	5	88	107	3.875	3.57	7.75	15.9	69.0	3.52	123	535	566	199	86	
DF T		14	6	89	116	4.009	4.29	8.69	18.9	86.9	4.68	164	755	754	265	122	
DF T		15	5	89	126	2.910	3.57	6.40	22.8	103.6	4.16	146	664	669	235	107	
DF T		16	3	88	132	1.535	2.14	4.60	20.1	90.0	2.64	93	414	425	149	67	
DF T		17	11	89	129	4.985	7.86	13.14	26.0	112.8	9.74	342	1,482	1,568	550	239	
DF T		18	5	88	136	2.021	3.57	6.06	27.4	121.3	4.74	166	736	764	268	118	
DF T		19	8	90	144	2.902	5.71	8.71	32.5	150.0	8.06	283	1,306	1,298	455	210	
DF T		20	14	88	141	4.584	10.00	13.10	36.2	162.5	13.52	474	2,128	2,177	764	343	
DF T		21	9	90	146	2.673	6.43	8.02	40.5	197.4	9.25	325	1,583	1,490	523	255	
DF T		22	11	87	144	2.976	7.86	8.93	43.5	198.5	11.07	389	1,772	1,783	626	285	
DF T		23	8	88	152	1.981	5.71	6.44	46.7	219.2	8.57	301	1,411	1,379	484	227	
DF T		24	8	89	157	1.819	5.71	5.91	51.3	245.8	8.65	304	1,453	1,393	489	234	
DF T		25	11	88	154	2.305	7.86	7.54	54.7	265.6	11.77	413	2,003	1,895	665	323	
DF T		26	6	88	161	1.162	4.29	4.26	55.4	276.4	6.73	236	1,178	1,083	380	190	
DF T		27	4	86	150	.719	2.86	2.34	62.8	301.5	4.18	147	704	673	236	113	
DF T		28	2	90	169	.334	1.43	1.17	70.4	374.3	2.35	82	438	378	133	70	
DF T		29	1	86	175	.156	.71	.62	66.7	330.0	1.18	42	206	191	67	33	
DF T		30	3	88	168	.437	2.14	1.75	70.2	370.0	3.49	123	646	562	197	104	
DF T		31	1	90	148	.136	.71	.41	94.5	496.7	1.10	39	203	177	62	33	

TC		PSTNDSUM		Stand Table Summary										Page		2	
														Date:		5/25/2021	
TT3N RR6W S02 Ty0PC				161.00		Project				SUNMIC				Time:		10:43:24AM	
						Acres				161.00				Grown Year:			
S SpC	T	Sample		Tot		Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	T o t a l s			
		DBH	Trees	FF 16'	Av Ht				Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF	
DF T		32	2	86	168	.256	1.43	.90	88.3	461.4	2.25	79	413	363	127	67	
DF T		34	1	85	164	.113	.71	.34	74.9	443.3	.73	25	151	117	41	24	
DF T		Totals	133	88	129	51.698	95.00	132.68	33.8	158.9	127.86	4,486	21,088	20,586	7,223	3,395	
WHL		10	1	91	80	1.310	.71	1.31	12.8	60.0	.53	17	79	86	27	13	
WHL		11	1	85	70	1.082	.71	1.08	17.1	60.0	.59	19	65	95	30	10	
WHL		12	3	89	102	2.728	2.14	5.46	13.8	65.0	2.41	75	355	389	121	57	
WHL		13	5	90	92	3.875	3.57	6.97	17.1	78.9	3.83	120	550	616	193	89	
WHL		14	5	91	99	3.341	3.57	7.35	17.9	82.7	4.21	132	608	678	212	98	
WHL		15	5	89	101	2.910	3.57	6.40	20.0	84.5	4.10	128	541	660	206	87	
WHL		17	3	87	128	1.359	2.14	4.08	23.5	107.8	3.06	96	440	493	154	71	
WHL		18	5	91	114	2.021	3.57	4.45	34.6	150.9	4.93	154	671	793	248	108	
WHL		19	2	89	141	.726	1.43	2.18	34.5	170.0	2.41	75	370	387	121	60	
WHL		20	5	90	142	1.637	3.57	4.91	38.7	186.7	6.08	190	917	979	306	148	
WHL		21	7	92	135	2.079	5.00	6.24	41.7	194.3	8.31	260	1,212	1,338	418	195	
WHL		22	2	90	136	.541	1.43	1.62	44.8	215.0	2.33	73	349	375	117	56	
WHL		23	4	93	137	.990	2.86	2.97	52.4	265.8	4.98	156	790	801	250	127	
WHL		24	4	91	139	.909	2.86	2.73	56.2	285.0	4.91	153	778	790	247	125	
WHL		25	3	91	139	.629	2.14	1.89	61.8	314.4	3.73	117	593	600	188	95	
WHL		27	2	93	169	.359	1.43	1.44	65.7	366.2	3.02	94	526	486	152	85	
WHL		28	1	94	135	.167	.71	.50	78.1	420.0	1.25	39	210	202	63	34	
WHL		29	1	94	176	.156	.71	.62	78.7	457.5	1.57	49	285	253	79	46	
WHL		32	1	93	130	.128	.71	.38	97.9	553.3	1.20	38	212	194	60	34	
WHL		33	1	94	180	.120	.71	.48	106.1	657.5	1.63	51	316	263	82	51	
WHL		38	1	84	149	.091	.71	.27	141.0	740.0	1.23	38	201	198	62	32	
WHL		Totals	62	90	112	27.158	44.29	63.33	32.7	159.0	66.31	2,072	10,068	10,677	3,336	1,621	
RC L		22	1	81	101	.271	.71	.54	49.3	150.0	.63	27	81	101	43	13	
RC L		24	1	81	102	.227	.71	.45	60.6	210.0	.65	28	95	104	44	15	
RC L		33	1	81	141	.120	.71	.36	98.6	423.3	.84	36	153	135	57	25	
RC L		Totals	3	81	109	.618	2.14	1.36	66.2	242.8	2.11	90	329	340	145	53	
RA L		18	1	94	102	.404	.71	.81	36.0	155.0	.80	29	125	129	47	20	
RA L		Totals	1	94	102	.404	.71	.81	36.0	155.0	.80	29	125	129	47	20	
Totals			386	89	130	123.171	275.71	334.73	40.2	199.3	390.68	13,470	66,722	62,900	21,687	10,742	

TC		PLOGSTVB																Log Stock Table - MBF							
TT3N RR6W S02 Ty0PC				161.00				Project: SUNMIC				Acres 161.00				Page 1									
																Date 5/25/2021									
																Time 10:43:22AM									
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	L	2M	40	1,416		1,412	25.0					80		152	561	450	170								
DF	L	3M	26	10		10	.2					10													
DF	L	3M	28	29		29	.5			6	12	11													
DF	L	3M	30	645		645	11.4					64	12	127	306	136									
DF	L	3M	31	144		144	2.5			6	6		24	26	65	17									
DF	L	3M	32	635		635	11.2			50		19	98	34	232	182	19								
DF	L	3M	33	84		84	1.5			1	1		15			66									
DF	L	3M	34	721		721	12.7			44		39	128	89	112	182	109	17							
DF	L	3M	35	67		67	1.2			12				25	12	18									
DF	L	3M	36	669		669	11.8			26		34	52	104	200	182	71								
DF	L	3M	37	186		186	3.3			12			24	18	112		21								
DF	L	3M	38	588		588	10.4			46		20	149	27	190	93	63								
DF	L	3M	39	50		50	.9			15			8	9		19									
DF	L	3M	40	358		358	6.3			72	47	140	39	50	11										
DF	L	3M	41	6		6	.1			6															
DF	L	4M	12	2		2	.0			2															
DF	L	4M	14	1		1	.0			1															
DF	L	4M	17	1		1	.0			1															
DF	L	4M	18	2		2	.0			2															
DF	L	4M	19	1		1	.0			1															
DF	L	4M	20	3		3	.1			3															
DF	L	4M	21	2		2	.0			1	1														
DF	L	4M	22	2		2	.0				2														
DF	L	4M	23	4		4	.1			3	1														
DF	L	4M	26	7		7	.1			6	1														
DF	L	4M	27	1		1	.0			1															
DF	L	4M	29	3		3	.1			3															
DF	L	4M	30	13		13	.2			13															
DF	L	4M	31	1		1	.0				1														
DF	L	4M	32	1		1	.0			1															
DF	L	4M	33	2		2	.0			2															
DF	L	4M	35	2		2	.0			2															
DF	L	4M	39	2		2	.0			2															
DF		Totals		5,657		5,653	52.6			341	71	337	628	661	1801	1345	453	17							
DF	T	2M	15	2		2	.0					2													
DF	T	2M	20	21		21	.6								9	12									
DF	T	2M	40	2,074		2,054	60.5					439		627	781	208									

TC		PLOGSTVB		Log Stock Table - MBF															
TT3N RR6W S02 Ty0PC161.00				Project:		SUNMIC										Page		2	
				Acres		161.00										Date		5/25/2021	
																Time		10:43:22AM	
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	T	3M	35	8		8	.2			8									
DF	T	3M	38	2		2	.1			2									
DF	T	3M	39	27		27	.8			10			17						
DF	T	3M	40	1,031		1,028	30.3			121	335	535	37						
DF	T	4M	12	3		3	.1			3									
DF	T	4M	13	4		4	.1			4									
DF	T	4M	14	0		0	.0			0									
DF	T	4M	15	2		2	.1			2									
DF	T	4M	16	4		4	.1			4									
DF	T	4M	17	1		1	.0			1									
DF	T	4M	18	4		4	.1			4									
DF	T	4M	19	6		6	.2			6									
DF	T	4M	20	5		5	.2			5									
DF	T	4M	21	3		3	.1			3									
DF	T	4M	22	14		14	.4			13	1								
DF	T	4M	25	2		2	.1			2									
DF	T	4M	26	8		8	.2			8									
DF	T	4M	27	9		9	.3			9									
DF	T	4M	28	8		8	.2			8									
DF	T	4M	29	11		11	.3			11									
DF	T	4M	30	15		15	.4			15									
DF	T	4M	31	7		7	.2			7									
DF	T	4M	32	30		30	.9			30									
DF	T	4M	33	17		17	.5			17									
DF	T	4M	34	5		5	.1			5									
DF	T	4M	35	31		31	.9			31									
DF	T	4M	36	19		19	.6			19									
DF	T	4M	37	7		7	.2			7									
DF	T	4M	38	10		10	.3			10									
DF	T	4M	40	30		30	.9			20		9							
DF		Totals		3,419		3,395	31.6			384	336	545	477	643	790	220			
WH	L	2M	40	782		777	47.9					155		111	321	143	47		
WH	L	3M	22	17		17	1.1				7	10							
WH	L	3M	23	4		4	.3			4									
WH	L	3M	24	4		4	.2			4									
WH	L	3M	28	44		44	2.7			6	14	24							

TC		PLOGSTVB		Log Stock Table - MBF																
TT3N RR6W S02 Ty0PC161.00				Project: SUNMIC		Acres161.00		Page3		Date5/25/2021		Time10:43:22AM								
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	L	3M	29	10		10	.6					10								
WH	L	3M	30	69		69	4.3			3	8	32		26						
WH	L	3M	31	11		11	.7			4		8								
WH	L	3M	32	42		42	2.6			15		16	12							
WH	L	3M	33	2		2	.1			2										
WH	L	3M	34	73		73	4.5			3		24		13	33					
WH	L	3M	35	37		37	2.3			6			7	9	15					
WH	L	3M	36	90		90	5.6			25	15	15	17		19					
WH	L	3M	37	14		14	.9						14							
WH	L	3M	38	106		106	6.6			10	14		9		29	22	22			
WH	L	3M	39	7		7	.4			7										
WH	L	3M	40	241	1.3	238	14.7			60	57	74	26	22						
WH	L	4M	12	0		0	.0			0										
WH	L	4M	17	1		1	.1			1										
WH	L	4M	19	1		1	.1			1										
WH	L	4M	21	2		2	.1			2										
WH	L	4M	24	3		3	.2			3										
WH	L	4M	26	3		3	.2			3										
WH	L	4M	27	4		4	.2			4										
WH	L	4M	28	6		6	.4			6										
WH	L	4M	29	6		6	.4			6										
WH	L	4M	30	2		2	.1			2										
WH	L	4M	32	4		4	.3			4										
WH	L	4M	36	3		3	.2			3										
WH	L	4M	38	3		3	.2			3										
WH	L	4M	39	9		9	.5			9										
WH	L	4M	40	32	16.3	27	1.7			4	23									
WH		Totals		1,634		1,621	15.1			198	137	203	251	181	417	165	69			
RC	L	2M	40	48	1.6	47	88.4					10	13	7	16					
RC	L	3M	33	1		1	2.6				1									
RC	L	3M	40	5		5	9.1			5										
RC		Totals		54	1.4	53	.5			5	1	10	13	7	16					
RA	L	CR	37	5		5	22.6			5										
RA	L	CR	40	16		16	77.4					16								
RA		Totals		20		20	.2			5		16								

TC		PLOGSTVB		Log Stock Table - MBF															
TT3N RR6W S02 Ty0PC161.00				Project:		SUNMIC										Page		4	
				Acres		161.00										Date		5/25/2021	
																Time		10:43:22AM	
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+
Total		All Species		10,784		10,742	100.0			933	545	1084	1382	1498	3015	1746	522		17

TC PSTATS				PROJECT STATISTICS						PAGE	1		
				PROJECT		SUNMIC		DATE		5/25/2021			
TWP	RGE	SC	TRACT	TYPE		ACRES		PLOTS	TREES	CuFt	BdFt		
T3N	R6	02	00A1	0PCL		240.00		45	625	S	W		
T3N	R6W	02	00A2	0PCM									
				TREES		ESTIMATED		PERCENT					
				TOTAL		SAMPLE		TREES					
				PER PLOT		TREES		TREES					
TOTAL				45	625	13.9							
CRUISE				45	625	13.9		31,913		2.0			
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-L				247	36.5	23.7	142	23.0	111.7	28,872	28,847	5,640	5,640
DOUG FIR-T				255	60.2	18.0	126	25.1	106.6	22,862	22,697	4,907	4,907
WHEMLOCK-L				113	33.3	16.3	105	11.9	48.0	10,283	10,220	2,129	2,129
WR CEDAR-L				9	2.7	15.9	78	0.9	3.8	504	501	134	134
R ALDER-L				1	.3	18.0	102	0.1	.5	84	84	20	20
TOTAL				625	133.0	19.3	124	61.6	270.5	62,605	62,348	12,829	12,829
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-L				56.3	3.6	980	1,017	1,053					
DOUG FIR-T				64.8	4.1	503	524	545					
WHEMLOCK-L				92.7	8.7	443	486	528					
WR CEDAR-L				93.4	32.9	269	401	533					
R ALDER-L													
TOTAL				74.1	3.0	689	710	731	219	55	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-L				49.0	3.1	188	194	200					
DOUG FIR-T				58.1	3.6	107	111	115					
WHEMLOCK-L				81.1	7.6	90	98	105					
WR CEDAR-L				83.6	29.5	73	103	133					
R ALDER-L													
TOTAL				64.6	2.6	138	141	145	167	42	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-L				84.6	12.6	32	36	41					
DOUG FIR-T				88.4	13.2	52	60	68					
WHEMLOCK-L				138.1	20.6	26	33	40					
WR CEDAR-L				310.5	46.2	1	3	4					
R ALDER-L				670.8	99.9	0	0	1					
TOTAL				46.1	6.9	124	133	142	85	21	9		
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-L				56.6	8.4	102	112	121					
DOUG FIR-T				76.6	11.4	94	107	119					
WHEMLOCK-L				142.1	21.2	38	48	58					
WR CEDAR-L				226.3	33.7	2	4	5					
R ALDER-L				670.8	99.9	0	0	1					
TOTAL				34.3	5.1	257	271	284	47	12	5		

PROJECT STATISTICS

PROJECT SUNMIC

DATE 5/25/2021

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
T3N	R6	02	00A1	0PCL	240.00	45	625	S	W	
T3N	R6W	02	00A2	0PCM						
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-L			59.8	8.9	26,279	28,847	31,415			
DOUG FIR-T			76.7	11.4	20,103	22,697	25,290			
WHEMLOCK-L			173.8	25.9	7,575	10,220	12,865			
WR CEDAR-L			250.4	37.3	314	501	687			
R ALDER-L			670.8	99.9	0	84	168			
TOTAL			40.9	6.1	58,548	62,348	66,148	67	17	7
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-L			57.3	8.5	5,158	5,640	6,121			
DOUG FIR-T			76.8	11.4	4,346	4,907	5,469			
WHEMLOCK-L			163.8	24.4	1,610	2,129	2,648			
WR CEDAR-L			243.7	36.3	85	134	182			
R ALDER-L			670.8	99.9	0	20	39			
TOTAL			38.4	5.7	12,095	12,829	13,563	59	15	7

TC		PSPCSTGR		Species, Sort Grade - Board Foot Volumes (Project)																	
TT3N RR6W S02 Ty0PCL79.00 TT3N RR6W S02 Ty0PC161.00				Project: SUNMIC				Page 1													
				Acres 240.00				Date 5/25/2021													
												Time 10:45:58AM									
Spp	S	So	Gr	%	Bd. Ft. per Acre			Total	Percent of Net Board Foot Volume								Average Log				Logs
									Log Scale Dia.				Log Length				Ln	Dia	Bd	CF/	
					Def%	Gross	Net		Net MBF	4-5	6-11	12-16	17+	12-20	21-30	31-35					
DF	L		2M	21	.4	6,246	6,224	1,494			26	74				100	40	17	505	2.28	12.3
DF	L		3M	78	.0	22,398	22,396	5,375		17	31	53		16	40	44	35	12	233	1.33	96.3
DF	L		4M	1	.6	228	227	54		100			20	58	18	4	25	6	34	0.39	6.8
DF Totals				46	.1	28,872	28,847	6,923		14	29	57	0	13	31	56	35	12	250	1.41	115.4
DF	T		CU														5	8		0.00	2.8
DF	T		2M	57	1.0	13,159	13,027	3,126			62	38	1			99	40	15	335	1.71	38.8
DF	T		3M	36	.4	8,136	8,107	1,946		91	8	2		2	2	96	40	9	117	0.69	69.0
DF	T		4M	7	.2	1,566	1,563	375		100			18	27	33	21	26	6	36	0.34	43.6
DF Totals				36	.7	22,862	22,697	5,447		39	39	22	2	3	3	92	35	9	147	0.91	154.2
WH	L		CU														6	16		0.00	.3
WH	L		2M	37	.5	3,855	3,834	920			54	46				100	40	15	382	1.73	10.0
WH	L		3M	57	.2	5,871	5,858	1,406		59	29	12		13	26	61	35	9	121	0.75	48.5
WH	L		4M	6	5.2	557	528	127		100			7	49	3	41	28	6	41	0.40	13.0
WH Totals				16	.6	10,283	10,220	2,453		39	37	24	0	10	15	74	35	9	142	0.85	71.8
RC	L		2M	47	1.3	243	240	58			72	28				100	40	15	387	2.46	.6
RC	L		3M	33		165	165	40		67	10	22		34	3	62	37	8	99	0.80	1.7
RC	L		4M	7		34	34	8		100			72	28			18	6	22	0.29	1.5
RC	L		CR	13		62	62	15		17	83				17	83	38	11	175	1.12	.4
RC Totals				1	.6	504	501	120		31	48	21	5	13	3	79	31	9	120	1.04	4.2
RA	L		CR	100		84	84	20		23	77					100	39	10	155	0.93	.5
RA Totals				0		84	84	20		23	77					100	39	10	155	0.93	.5
Totals					0.4	62,605	62,348	14,964		27	34	39	1	9	18	72	35	10	180	1.06	346.1

TC		Stand Table Summary										Page		
PSTNDSUM												1		
												Date:		
												Time:		
												10:46:00AM		

TC		PSTNDSUM		Stand Table Summary										Page		2	
														Date:		5/25/2021	
TT3N RR6W S02 Ty0PCL79.00 TT3N RR6W S02 Ty0PC161.00				Project				SUNMIC				Time:		10:46:00AM			
				Acres				240.00				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	T	31	1	90	148	.091	.48	.27	94.5	496.7	.74	26	136	177	62	33	
DF	T	32	2	86	168	.172	.96	.60	88.3	461.4	1.51	53	277	363	127	67	
DF	T	34	1	85	164	.076	.48	.23	74.9	443.3	.49	17	101	117	41	24	
DF	T	Totals	255	88	126	60.178	106.56	151.41	32.4	149.9	139.86	4,907	22,697	33,567	11,778	5,447	
WH	L	10	7	88	65	5.139	2.80	5.85	10.4	45.4	1.95	61	266	469	147	64	
WH	L	11	2	87	77	1.313	.87	1.31	16.7	64.5	.70	22	85	169	53	20	
WH	L	12	6	90	92	3.309	2.60	5.63	14.5	65.0	2.61	82	366	627	196	88	
WH	L	13	6	90	92	3.019	2.78	5.52	17.0	78.3	3.00	94	432	720	225	104	
WH	L	14	10	91	100	4.052	4.33	8.55	18.9	87.5	5.17	161	748	1,240	387	180	
WH	L	15	9	90	102	2.615	3.21	5.65	20.8	89.5	3.76	117	506	902	282	121	
WH	L	16	6	91	113	1.664	2.32	3.61	27.5	125.4	3.17	99	452	761	238	108	
WH	L	17	6	90	118	1.649	2.60	4.46	24.9	111.9	3.55	111	499	853	266	120	
WH	L	18	11	91	120	2.462	4.35	6.30	30.9	139.2	6.22	195	877	1,494	467	211	
WH	L	19	6	91	136	1.087	2.14	3.26	33.8	171.3	3.53	110	558	846	264	134	
WH	L	20	7	88	139	1.453	3.17	4.36	37.0	174.9	5.16	161	762	1,239	387	183	
WH	L	21	11	93	134	2.039	4.90	6.12	41.3	196.6	8.09	253	1,202	1,941	606	289	
WH	L	22	5	92	134	.803	2.12	2.41	45.0	219.6	3.47	109	529	833	260	127	
WH	L	23	4	93	137	.664	1.92	1.99	52.4	265.8	3.34	104	530	801	250	127	
WH	L	24	4	91	139	.610	1.92	1.83	56.2	285.0	3.29	103	522	790	247	125	
WH	L	25	4	91	137	.535	1.82	1.61	61.1	309.3	3.14	98	497	754	236	119	
WH	L	26	1	85	130	.105	.39	.32	60.0	286.7	.60	19	90	145	45	22	
WH	L	27	2	93	169	.241	.96	.96	65.7	366.2	2.03	63	353	486	152	85	
WH	L	28	1	94	135	.112	.48	.34	78.1	420.0	.84	26	141	202	63	34	
WH	L	29	1	94	176	.104	.48	.42	78.7	457.5	1.05	33	191	253	79	46	
WH	L	30	1	93	148	.079	.39	.24	94.9	520.0	.72	22	123	173	54	30	
WH	L	32	1	93	130	.086	.48	.26	97.9	553.3	.81	25	142	194	60	34	
WH	L	33	1	94	180	.081	.48	.32	106.1	657.5	1.10	34	212	263	82	51	
WH	L	38	1	84	149	.061	.48	.18	141.0	740.0	.82	26	135	198	62	32	
WH	L	Totals	113	90	105	33.283	47.99	71.49	29.8	143.0	68.13	2,129	10,220	16,352	5,110	2,453	
RC	L	8	1	80	52	1.109	.39	1.11	4.4	20.0	.11	5	22	27	12	5	
RC	L	12	1	80	75	.493	.39	.49	19.6	60.0	.23	10	30	55	23	7	
RC	L	15	1	81	101	.316	.39	.63	22.8	75.0	.34	14	47	81	35	11	
RC	L	20	1	93	98	.178	.39	.36	42.1	175.0	.35	15	62	84	36	15	
RC	L	22	1	81	101	.182	.48	.36	49.3	150.0	.42	18	54	101	43	13	
RC	L	24	2	81	109	.276	.87	.67	51.2	186.3	.81	35	126	195	83	30	
RC	L	26	1	80	100	.105	.39	.32	42.2	180.0	.31	13	57	75	32	14	
RC	L	33	1	81	141	.081	.48	.24	98.6	423.3	.56	24	102	135	57	25	
RC	L	Totals	9	81	78	2.739	3.76	4.18	31.9	119.6	3.14	134	501	753	320	120	
RA	L	18	1	94	102	.271	.48	.54	36.0	155.0	.54	20	84	129	47	20	
RA	L	Totals	1	94	102	.271	.48	.54	36.0	155.0	.54	20	84	129	47	20	
Totals		625	88	124		132.970	270.52	342.99	37.4	181.8	372.40	12,829	62,348	89,377	30,791	14,964	

TC		PLOGSTVB																		Log Stock Table - MBF									
TT3N RR6W S02 Ty0PCL				79.00		Project: SUNMIC										Page 1													
TT3N RR6W S02 Ty0PC				161.00		Acres 240.00										Date 5/25/2021													
																Time 10:45:58AM													
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	L	2M	40	1,499		1,494	21.6					97	177	584	467	170													
DF	L	3M	26	10		10	.1					10																	
DF	L	3M	28	36		36	.5			6	19	11																	
DF	L	3M	29	9		9	.1					9																	
DF	L	3M	30	826		826	11.9			8		91	12	172	372	170													
DF	L	3M	31	170		170	2.5			9	6		24	26	89	17													
DF	L	3M	32	826		826	11.9			62		35	127	62	254	268	19												
DF	L	3M	33	169		169	2.4			1	1		20		41	105													
DF	L	3M	34	897		897	13.0			63		52	180	114	156	191	123	17											
DF	L	3M	35	71		71	1.0			17				25	12	18													
DF	L	3M	36	769		769	11.1			28		41	52	122	245	197	85												
DF	L	3M	37	291		291	4.2			13			30	18	201	9	21												
DF	L	3M	38	781		781	11.3			72		30	213	38	256	108	63												
DF	L	3M	39	73		73	1.0			18			8	15	13	19													
DF	L	3M	40	439		439	6.3			81	52	156	53	57	39														
DF	L	3M	41	8		8	.1			8																			
DF	L	4M	12	2		2	.0			2																			
DF	L	4M	14	1		1	.0			1																			
DF	L	4M	17	1		1	.0			1																			
DF	L	4M	18	2		2	.0			2																			
DF	L	4M	19	2		2	.0			2																			
DF	L	4M	20	3		3	.1			3																			
DF	L	4M	21	2		2	.0			1	1																		
DF	L	4M	22	2		2	.0				2																		
DF	L	4M	23	4		4	.1			3	1																		
DF	L	4M	26	7		7	.1			6	1																		
DF	L	4M	27	1		1	.0			1																			
DF	L	4M	29	3		3	.0			3																			
DF	L	4M	30	13		13	.2			13																			
DF	L	4M	31	1		1	.0				1																		
DF	L	4M	32	5	7.0	5	.1			5																			
DF	L	4M	33	2		2	.0			2																			
DF	L	4M	35	2		2	.0			2																			
DF	L	4M	39	2		2	.0			2																			
DF		Totals		6,929		6,923	46.3			434	83	427	825	826	2261	1569	481	17											
DF	T	2M	15	2		2	.0					2																	
DF	T	2M	20	36		36	.7							24		12													

TC		PLOGSTVB		Log Stock Table - MBF																	
TT3N RR6W S02 Ty0PCL79.00 TT3N RR6W S02 Ty0PC161.00				Project: SUNMIC		Acres240.00														Page2	
																				Date5/25/2021	
																				Time10:45:58AM	
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	T	2M	40	3,120	1.0	3,089	56.7					835	821	1132	300						
DF	T	3M	30	41		41	.8				4	8	29								
DF	T	3M	31	5		5	.1			1		4									
DF	T	3M	32	25		25	.5			1	15	9									
DF	T	3M	34	2		2	.0			2											
DF	T	3M	35	8		8	.1			8											
DF	T	3M	36	25		25	.5			2		24									
DF	T	3M	37	27		27	.5			2	7	6		13							
DF	T	3M	38	14		14	.3			9		6									
DF	T	3M	39	29		29	.5			13		17									
DF	T	3M	40	1,776		1,769	32.5			285	536	879	69								
DF	T	4M	12	5		5	.1			5											
DF	T	4M	13	10		10	.2			10											
DF	T	4M	14	7		7	.1			7											
DF	T	4M	15	6		6	.1			6											
DF	T	4M	16	12		12	.2			12											
DF	T	4M	17	3		3	.0			3											
DF	T	4M	18	7		7	.1			5	2										
DF	T	4M	19	13		13	.2			13											
DF	T	4M	20	7		7	.1			7											
DF	T	4M	21	5		5	.1			5											
DF	T	4M	22	15		15	.3			15	1										
DF	T	4M	23	3		3	.1			3											
DF	T	4M	24	6		6	.1			6											
DF	T	4M	25	4		4	.1			4											
DF	T	4M	26	10		10	.2			10											
DF	T	4M	27	11		11	.2			11											
DF	T	4M	28	10		10	.2			10											
DF	T	4M	29	19	4.0	18	.3			18											
DF	T	4M	30	18		18	.3			18											
DF	T	4M	31	13		13	.2			13											
DF	T	4M	32	47		47	.9			47											
DF	T	4M	33	21		21	.4			21											
DF	T	4M	34	12		12	.2			12											
DF	T	4M	35	32		32	.6			32											
DF	T	4M	36	27		27	.5			27											
DF	T	4M	37	7		7	.1			7											

TC		PLOGSTVB																		Log Stock Table - MBF									
TT3N RR6W S02 Ty0PCL 79.00 TT3N RR6W S02 Ty0PC 161.00					Project: SUNMIC Acres 240.00					Page 4 Date 5/25/2021 Time 10:45:58AM																			
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+									
WH	L		4M	32	4		4	.2			4																		
WH	L		4M	36	3		3	.1			3																		
WH	L		4M	38	8		8	.3			8																		
WH	L		4M	39	9		9	.4			9																		
WH	L		4M	40	37	14.0	32	1.3			9	23																	
WH			Totals		2,468		2,453	16.4			384	181	397	407	274	559	183	69											
RC	L		2M	40	58	1.3	58	47.9					10	24	7	16													
RC	L		3M	26	9		9	7.3						9															
RC	L		3M	27	4		4	3.4					4																
RC	L		3M	28	1		1	.6			1																		
RC	L		3M	33	1		1	1.1				1																	
RC	L		3M	40	25		25	20.4			12	13																	
RC	L		4M	14	1		1	.5			1																		
RC	L		4M	16	5		5	4.4			5																		
RC	L		4M	28	2		2	1.9			2																		
RC	L		CR	35	3		3	2.1			3																		
RC	L		CR	40	12		12	10.3						12															
RC			Totals		121		120	.8			23	14	14	36	16	16													
RA	L		CR	37	5		5	22.6			5																		
RA	L		CR	40	16		16	77.4					16																
RA			Totals		20		20	.1			5		16																
Total			All Species		15,025		14,964	100.0			1530	817	1738	2193	2005	4034	2080	550	17										

VOLUME SUMMARY
(Shown in MBF)
Sunset Music
#FG-341-2022-W00481-01
May 2021

UNIT 1: PC-M (79 ACRES)

SPECIES		2 SAW	3 SAW	4 SAW	TOTAL
Douglas-fir	Cruise Volume	1,049	881	122	2,052
	Hidden D&B (2%)	(21)	(18)	(2)	(41)
	NET TOTAL	1,028	863	120	2,011
	% of Total	51	43	6	

UNIT 2: PC-L (161 ACRES)

SPECIES		2 SAW	3 SAW	4 SAW	TOTAL
Douglas-fir	Cruise Volume	2,077	1,065	253	3,395
	Hidden D&B (2%)	(42)	(21)	(5)	(68)
	NET TOTAL	2,035	1,044	248	3,327
	% of Total	61	31	8	

UNIT 3: PC-GR (15 ACRES)

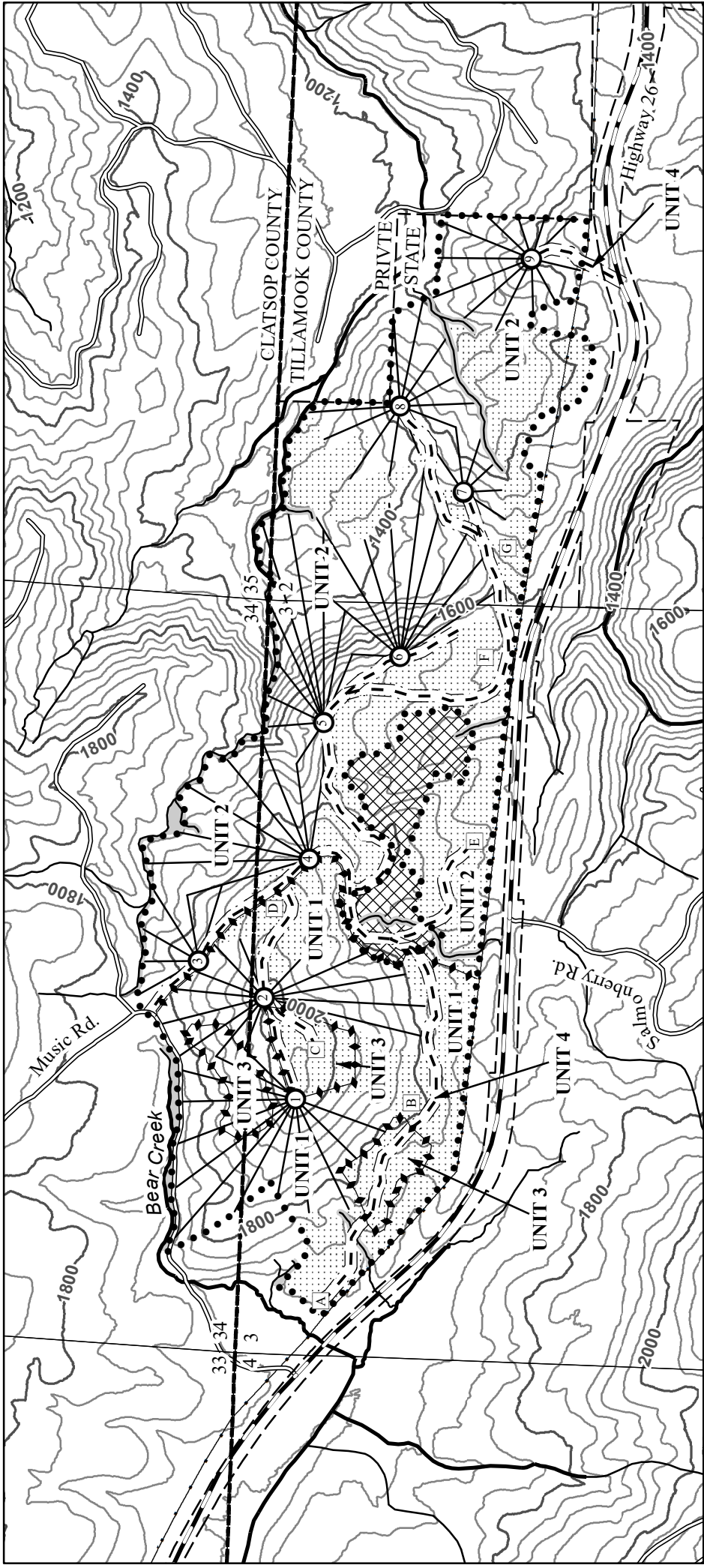
SPECIES		2 SAW	3 SAW	4 SAW	TOTAL
Douglas-fir	Cruise Volume	216	394	26	636
	Hidden D&B (2%)	(4)	(8)	(1)	(13)
	NET TOTAL	212	386	25	623
	% of Total	34	62	4	
Western hemlock	Cruise Volume	27	121	11	159
	Hidden D&B (2%)	(1)	(2)	(0)	(3)
	NET TOTAL	26	119	11	156
	% of Total	17	76	7	

UNIT 4: R/W (20 ACRES)

SPECIES		2 SAW	3 SAW	4 SAW	TOTAL
Douglas-fir	Cruise Volume	374	639	53	1,066
	Hidden D&B (2%)	(8)	(13)	(1)	(22)
	NET TOTAL	366	626	52	1,044
	% of Total	35	60	5	
Western hemlock	Cruise Volume	36	77	6	119
	Hidden D&B (2%)	(1)	(2)	(0)	(3)
	NET TOTAL	35	75	6	116
	% of Total	30	65	5	

SALE TOTAL

SPECIES	2 SAW	3 SAW	4 SAW	TOTAL
Douglas-fir	3,641	2,919	445	7,005
Western hemlock	61	194	17	272
TOTAL	3,702	3,113	462	7,277



Legend

- Timber Sale Boundary
- ◆ Area Boundary
- Right-of-Way Boundary
- [] ODF Ownership Boundary
- Highway
- Surfaced Road
- - - New Road Construction
- Type-F Stream
- Type-N Stream
- Stream Buffer
- Cable Landing
- Tractor Landing
- ▭ Cable Yarding Area
- ▨ Tractor Yarding Area
- ▧ Non-Harvestable Area
- BPA Transmission Lines
- County Line
- Section Line
- 40 Foot Contour Band
- 200 Foot Contour Band

LOGGING PLAN

FOR TIMBER SALE CONTRACT #FG-341-2022-W00481-01
SUNSET MUSIC
PORTIONS OF SECTIONS 2 & 3, T3N, R6W, W.M.,
TILLAMOOK COUNTY, OREGON
PORTIONS OF SECTIONS 34 & 35, T4N, R6W, W.M.,
CLATSOP COUNTY, OREGON

Forest Grove District GIS
May, 2021
This product is for informational use and may not be
suitable for legal, engineering, or surveying purposes.

1:12,000

1 inch = 1,000 feet



APPROXIMATE NET ACRES

	TRACTOR	CABLE
UNIT 1	33	46
UNIT 2	59	102
UNIT 3	10	5
UNIT 4	20	0
TOTAL	122	153