



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal  
Bible Creek  
Sale FG-341-2024-W00952-01

District: Forest Grove

Date: November 15, 2023

---

**Cost Summary**

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$1,501,310.82	\$0.00	\$1,501,310.82
		Project Work:	(\$130,000.00)
		Advertised Value:	\$1,371,310.82



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal  
Bible Creek  
Sale FG-341-2024-W00952-01

District: Forest Grove

Date: November 15, 2023

---

**Timber Description**

Location:

Stand Stocking: 20%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	13	0	98

Volume by Grade	2S	3S & 4S 6"-11"	Total
Douglas - Fir	359	3,184	3,543
Total	359	3,184	3,543

**Comments:** LOCAL POND VALUES, SEPTEMBER 2023

WESTERN HEMLOCK AND OTHER CONIFERS:  
STUMPAGE PRICE = POND VALUE - DOUG-FIR LOGGING COST  
 $\$231.27 = \$550 - \$318.73$

RED ALDER AND OTHER HARDWOODS:  
STUMPAGE PRICE = POND VALUE - DOUG-FIR LOGGING COST  
 $\$184.27 = \$503 - \$318.73$

WESTERN REDCEDAR AND OTHER CEDARS:  
STUMPAGE PRICE = POND VALUE - DOUG-FIR LOGGING COST  
 $\$851.27 = \$1,170 - \$318.73$

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): N/A

OTHER COSTS (NO PROFIT & RISK ADDED):

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

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

DIRT NON-PROJECT ROAD CONSTRUCTION "OPERATOR CHOICE SPUR ROAD":  
37 STATIONS @ \$150 = \$5,550

BLM ROAD USE FEE = \$14,563.97

TOTAL OTHER COSTS (NO P&R) = \$27,613.97

ROAD MAINTENANCE (INCLUDES SPOT ROCKING, GRADING, & ROLLING):  
MOVE IN: \$4,293.69  
GENERAL ROAD MAINT: 9.60 miles X \$3,044.77 = \$29,229.79  
TOTAL ROAD MAINTENANCE: \$33,523.48/3,543 MBF = \$9.46/MBF



Timber Sale Appraisal  
Bible Creek  
Sale FG-341-2024-W00952-01

District: Forest Grove

Date: November 15, 2023

---

### Logging Conditions

<b>Combination#:</b> 1	Douglas - Fir	18.16%
<b>Logging System:</b>	Cable: Small Tower <=40	<b>Process:</b> Harvester Head Delimbing
<b>yarding distance:</b>	Short (400 ft)	<b>downhill yarding:</b> No
<b>tree size:</b>	Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF	
<b>loads / day:</b>	10	<b>bd. ft / load:</b> 4200
<b>cost / mbf:</b>	\$176.93	
<b>machines:</b>	Log Loader (A) Forwarder Harvester Tower Yarder (Small)	

---

<b>Combination#:</b> 2	Douglas - Fir	81.84%
<b>Logging System:</b>	Shovel	<b>Process:</b> Harvester Head Delimbing
<b>yarding distance:</b>	Medium (800 ft)	<b>downhill yarding:</b> No
<b>tree size:</b>	Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF	
<b>loads / day:</b>	14	<b>bd. ft / load:</b> 4200
<b>cost / mbf:</b>	\$170.07	
<b>machines:</b>	Forwarder Harvester	

---



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal  
Bible Creek  
Sale FG-341-2024-W00952-01

District: Forest Grove

Date: November 15, 2023

### Logging Costs

Operating Seasons: 2.00	Profit Risk: 12%
Project Costs: \$130,000.00	Other Costs (P/R): \$0.00
Slash Disposal: \$0.00	Other Costs: \$27,613.97

Miles of Road

Road Maintenance: \$9.46

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	4.6



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal  
Bible Creek  
Sale FG-341-2024-W00952-01

District: Forest Grove

Date: November 15, 2023

### Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
Douglas - Fir									
\$171.32	\$9.65	\$2.48	\$92.39	\$0.00	\$33.10	\$0.00	\$2.00	\$7.79	\$318.73

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$742.47	\$423.74	\$0.00



Timber Sale Appraisal  
Bible Creek  
Sale FG-341-2024-W00952-01

District: Forest Grove

Date: November 15, 2023

### Summary

#### Amortized

Specie	MBF	Value	Total
Douglas - Fir	0	\$0.00	\$0.00

#### Unamortized

Specie	MBF	Value	Total
Douglas - Fir	3,543	\$423.74	\$1,501,310.82

#### Gross Timber Sale Value

Recovery: \$1,501,310.82

Prepared By: Colton Turner

Phone: 503-357-2191

**TIMBER SALE SUMMARY**  
**Bible Creek**  
**#FG-341-2024-W00952-01**

1. **Location:** Portions of Section 34, T3S, R7W, W.M., Tillamook County, OR. Portions of Sections 10 & 16, T4S, R7W, W.M., Tillamook County, OR.
2. **Type of Sale:** This timber sale is 242 acres. The Timber Sale Area is comprised of four Partial Cut Units and one Right-of-Way Unit. Unit 1 (PC-M) is 109 acres, Unit 2 (PC-M) is 51 acres, Unit 3 (MC) is 20 acres, Unit 4 (PC-M) is 57 acres, Unit 5 (R/W) is 5 acres. The timber will be sold on a recovery basis at a sealed bid auction.
3. **Revenue Distribution:** 100% BOF; 100% Tillamook County (Tax Code 5601).
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, Shamus Smith, Colton Turner, and Mark Savage in October and November of 2023. For more information see Cruise Report.
6. **Timber Description:** The Timber Sale Area consists of 40 to 51-year-old Douglas-fir timber with minor amounts of red alder and western hemlock. 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	109	12	268	14.4
Unit 2	51	11	385	16.6
Unit 3	20	15	189	13.5
Unit 4	57	14	195	13.1
Unit 5	5	*	*	*

\* = see the Cruise Report

7. **Topography and Logging Method:** Slopes within the sale areas range from 5% to 80% and are variable in aspect. Elevations range from 1,555 to 2,446 feet. The following table summarizes logging systems percentages and other useful information.

Sale Unit	% Ground	Ground Max (Feet)	Ground Average (Feet)	% Cable	Cable Max (Feet)	Cable Average (Feet)
Unit 1	82	1,100	350	18	600	400
Unit 2	56	650	300	44	650	400
Unit 3	100	800	300	-	-	-
Unit 4	100	650	400	-	-	-
Unit 5	100	*	*	*	*	*

\* = see the Cruise Report

8. **Access:** All access to the Timber Sale Area is on surfaced all-weather roads. From Forest Grove, travel south on Highway 47 for 17.9 miles to the town of Carlton. In Carlton, turn right onto Meadowlake Road and follow for 11.9 miles to Nestucca Access Road. Continue straight on Nestucca Access Road for 3 miles and then turn left onto Bald Mountain Access. Continue on Bald Mountain Access for 8.1 miles. To access Unit 3 and Unit 4, turn right onto unnamed spur road and continue for 0.1 miles to Testament Creek Road. Turn left onto Testament Creek Road and follow for 0.3 miles. Turn right onto unnamed spur road and continue for 3.2 miles to access the eastern portion of Unit 3. Turn right onto unnamed spur road and continue for 0.8 miles to reach Unit 4. To access Unit 2, continue down Bald Mountain Access for an additional 3.7 miles to Bell Mountain. Turn right on Bell Mountain and continue for 1 mile to access the southern portion of Unit 2. To access Unit 1 continue on Bald Mountain Access for an additional 2 miles to Bible Creek Road. Turn right on Bible Creek Road and proceed for 2 miles to an unnamed spur road. Turn right onto unnamed spur road and continue for 0.1 miles to access the southern portion of Unit 1.

**9. Projects:**

Project No. 1: Dirt Road Construction	\$38,699.14
Project No. 2: Road Improvement	\$85,911.51
Project No. 3: Road Vacating	\$5,389.35
Total Credit for all Projects	\$130,000.00



**PROJECT COST SUMMARY SHEET**

Timber Sale: Bible Creek  
Sale Number: FG-341-2024-W00952-01

**PROJECT NO. 1: DIRT ROAD CONSTRUCTION**

Road Segment	Length	Cost
O to P	5+50	\$2,550.01
Q to R	2+20	\$1,198.81
S to T	16+00	\$8,828.83
U to V	13+00	\$5,607.30
W to X	4+00	\$1,979.57
H to Y	9+00	\$4,134.98
Z to AA	19+50	\$12,702.91
	69+20 stations 1.31 miles	
	Move-in =	\$1,696.74
<b>TOTAL PROJECT COST =</b>		<b>\$38,699.14</b>

**PROJECT NO. 2: ROAD IMPROVEMENT**

Road Segment	Length	Cost
A to B	62+50	\$20,034.64
C to D	12+00	\$2,701.13
E to F	66+00	\$14,916.82
G to H	9+50	\$1,624.02
I to J	18+60	\$11,886.03
K to L	109+20	\$21,597.58
M to N	13+00	\$9,384.55
	290+80 stations 5.51 miles	
Total Rock =	1,235 cy	1½" - 0
	Move-in =	\$3,766.74
<b>TOTAL PROJECT COST =</b>		<b>\$85,911.51</b>

**PROJECT NO. 3: ROAD VACATING**

Road Segment	Length	Cost
V1 to V2	4+00	\$308.28
O to P	5+50	\$270.60
Q to R	2+20	\$151.53
S to T	16+00	\$828.85
U to V	13+00	\$532.13
W to X	4+00	\$198.28
H to Y	9+00	\$364.10
Z to AA	19+50	\$1,057.10
	73+20 stations 1.39 miles	
	Move-in =	\$1,678.50
<b>TOTAL PROJECT COST =</b>		<b>\$5,389.35</b>
<b>TOTAL CREDITS =</b>		<b>\$130,000.00</b>

SUMMARY OF CONSTRUCTION COST

Timber Sale: Bible Creek

Sale Number: FG-341-2024-W00952-01

---

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

---

<u>Equipment</u>	<u>Total</u>
Grader	\$341.17
Loader (Med. & Large)	\$351.33
Roller (smooth/grid) & Compactor	\$326.33
Excavator (Large) - Equipment Cleaning	\$1,678.50
Dozer (Large) - Equipment Cleaning	\$1,297.65
Dump Truck (20cy +)	\$1,468.50
	<b><u>TOTAL MOVE-IN COSTS =</u></b>
	<b><u>\$5,463.48</u></b>

---

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

---

<u>Equipment</u>	<u>Total</u>
Excavator (Large) - Equipment Cleaning	\$1,678.50
	<b><u>TOTAL MOVE-IN COSTS =</u></b>
	<b><u>\$1,678.50</u></b>

---

# SUMMARY OF CONSTRUCTION COST

Timber Sale: Bible Creek  
Road Segment: A to B

Sale Number: FG-341-2024-W00952-01  
Improvement: 62+50 stations  
1.18 miles

## PROJECT NO. 2: ROAD IMPROVEMENT

### IMPROVEMENT

Clearing & grubbing (scatter)	0.72	ac @	\$1,692.00	per acre =	\$1,218.24
Clean culvert inlet & outlet, scatter waste	4	ea @	\$27.50	per ea =	\$110.00
Improve turnout	10	ea @	\$36.30	per ea =	\$363.00
Improve turnaround	1	ea @	\$45.38	per ea =	\$45.38
Construct roadside landing	1	ea @	\$181.50	per ea =	\$181.50
Grade, ditch, & roll	62.50	sta @	\$39.65	per sta =	\$2,478.13

**TOTAL IMPROVEMENT COSTS = \$4,396.24**

### CULVERTS

Markers & Stakes					
Culvert markers	3	ea @	\$12.00	per ea =	\$36.00

**TOTAL CULVERT COSTS = \$36.00**

### ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
<b>Surfacing rock</b>						
Spot rock	1½" - 0	\$19.64	\$25.27	\$1.35	299	\$13,831.74
Turnaround	1½" - 0	\$19.64	\$25.27	\$1.35	6	\$277.56
Roadside landing	1½" - 0	\$19.64	\$25.27	\$1.35	25	\$1,156.50
Subtotal =					330	\$15,265.80

Totals	All Rock =	330
	1½" - 0	330

**TOTAL ROCK COSTS = \$15,265.80**

### EROSION CONTROL

Grass seed & fertilizer	0.72	ac @	\$467.50	per ac =	\$336.60
-------------------------	------	------	----------	----------	----------

**TOTAL EROSION CONTROL COSTS = \$336.60**

**TOTAL PROJECT COST = \$20,034.64**

# SUMMARY OF CONSTRUCTION COST

Timber Sale: Bible Creek  
 Road Segment: C to D

Sale Number: FG-341-2024-W00952-01  
 Improvement: 12+00 stations  
0.23 miles

## PROJECT NO. 2: ROAD IMPROVEMENT

### IMPROVEMENT

Clearing & grubbing (scatter)	0.14	ac @	\$1,692.00	per acre =	\$236.88
Improve turnout	2	ea @	\$36.30	per ea =	\$72.60
Grade, ditch, & roll	12.00	sta @	\$39.65	per sta =	\$475.80

**TOTAL IMPROVEMENT COSTS = \$785.28**

### ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
<b>Surfacing rock</b>						
Spot rock	1½" - 0	\$19.64	\$25.27	\$1.35	40	\$1,850.40
Subtotal =					40	\$1,850.40

Totals	All Rock =	40
	1½" - 0	40

**TOTAL ROCK COSTS = \$1,850.40**

### EROSION CONTROL

Grass seed & fertilizer	0.14	ac @	\$467.50	per ac =	\$65.45
-------------------------	------	------	----------	----------	---------

**TOTAL EROSION CONTROL COSTS = \$65.45**

**TOTAL PROJECT COST = \$2,701.13**

# SUMMARY OF CONSTRUCTION COST

Timber Sale: Bible Creek  
 Road Segment: E to F

Sale Number: FG-341-2024-W00952-01  
 Improvement: 66+00 stations  
1.25 miles

## PROJECT NO. 2: ROAD IMPROVEMENT

### IMPROVEMENT

Clearing & grubbing (scatter)	0.76	ac @	\$1,692.00	per acre =	\$1,285.92
Clean culvert inlet & outlet, scatter waste	3	ea @	\$27.50	per ea =	\$82.50
Improve turnout	10	ea @	\$36.30	per ea =	\$363.00
Grade, ditch, & roll	66.00	sta @	\$39.65	per sta =	\$2,616.90

**TOTAL IMPROVEMENT COSTS = \$4,348.32**

### CULVERTS

Markers & Stakes					
Culvert markers	3	ea @	\$12.00	per ea =	\$36.00

**TOTAL CULVERT COSTS = \$36.00**

### ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
<b>Surfacing rock</b>						
Spot rock	1½" - 0	\$19.64	\$25.27	\$1.35	220	\$10,177.20
Subtotal =					220	\$10,177.20

Totals	All Rock =	220
	1½" - 0	220

**TOTAL ROCK COSTS = \$10,177.20**

### EROSION CONTROL

Grass seed & fertilizer	0.76	ac @	\$467.50	per ac =	\$355.30
-------------------------	------	------	----------	----------	----------

**TOTAL EROSION CONTROL COSTS = \$355.30**

**TOTAL PROJECT COST = \$14,916.82**

# SUMMARY OF CONSTRUCTION COST

Timber Sale: Bible Creek  
 Road Segment: G to H

Sale Number: FG-341-2024-W00952-01  
 Improvement: 9+50 stations  
0.18 miles

## PROJECT NO. 2: ROAD IMPROVEMENT

### IMPROVEMENT

Clearing & grubbing (scatter)	0.11	ac @	\$1,692.00	per acre =	\$186.12
Improve turnout	2	ea @	\$36.30	per ea =	\$72.60
Grade, ditch, & roll	9.50	sta @	\$39.65	per sta =	\$376.68

**TOTAL IMPROVEMENT COSTS = \$635.40**

### CULVERTS

Markers & Stakes					
Culvert markers	1	ea @	\$12.00	per ea =	\$12.00

**TOTAL CULVERT COSTS = \$12.00**

### ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
<b>Surfacing rock</b>						
Spot rock	1½" - 0	\$19.64	\$25.27	\$1.35	20	\$925.20
				Subtotal =	20	\$925.20

Totals	All Rock =	20
	1½" - 0	20

**TOTAL ROCK COSTS = \$925.20**

### EROSION CONTROL

Grass seed & fertilizer	0.11	ac @	\$467.50	per ac =	\$51.43
-------------------------	------	------	----------	----------	---------

**TOTAL EROSION CONTROL COSTS = \$51.43**

**TOTAL PROJECT COST = \$1,624.02**

**SUMMARY OF CONSTRUCTION COST**

Timber Sale: Bible Creek  
 Road Segment: I to J

Sale Number: FG-341-2024-W00952-01  
 Improvement: 18+60 stations  
0.35 miles

**PROJECT NO. 2: ROAD IMPROVEMENT**

**IMPROVEMENT**

Clearing & grubbing (scatter)	0.22	ac @	\$1,692.00	per acre =	\$372.24
Improve turnout	4	ea @	\$36.30	per ea =	\$145.20
Construct turnaround	1	ea @	\$90.75	per ea =	\$90.75
Approach to landing	1.40	sta @	\$759.00	per sta =	\$1,062.60
Construct roadside landing	1	ea @	\$181.50	per ea =	\$181.50
Improve landing	1	ea @	\$172.70	per ea =	\$172.70
Grade, ditch, & roll	18.60	sta @	\$39.65	per sta =	\$737.49

**TOTAL IMPROVEMENT COSTS = \$2,762.48**

**ROCK**

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
<b>Surfacing rock</b>						
Spot rock	1½" - 0	\$19.64	\$25.27	\$1.35	98	\$4,533.48
Turnaround	1½" - 0	\$19.64	\$25.27	\$1.35	6	\$277.56
Approach to landing	1½" - 0	\$19.64	\$25.27	\$1.35	21	\$971.46
Roadside landing	1½" - 0	\$19.64	\$25.27	\$1.35	25	\$1,156.50
Landing	1½" - 0	\$19.64	\$25.27	\$1.35	45	\$2,081.70
<b>Subtotal =</b>					<b>195</b>	<b>\$9,020.70</b>

Totals

<b>All Rock =</b>		<b>195</b>
1½" - 0		195

**TOTAL ROCK COSTS = \$9,020.70**

**EROSION CONTROL**

Grass seed & fertilizer	0.22	ac @	\$467.50	per ac =	\$102.85
-------------------------	------	------	----------	----------	----------

**TOTAL EROSION CONTROL COSTS = \$102.85**

**TOTAL PROJECT COST = \$11,886.03**

# SUMMARY OF CONSTRUCTION COST

Timber Sale: Bible Creek  
Road Segment: K to L

Sale Number: FG-341-2024-W00952-01  
Improvement: 109+20 stations  
2.07 miles

## PROJECT NO. 2: ROAD IMPROVEMENT

### IMPROVEMENT

Clearing & grubbing (scatter)	1.26	ac @	\$1,692.00	per acre =	\$2,131.92
Clean ditch & scatter waste material	1.00	sta @	\$66.00	per sta =	\$66.00
Clean culvert inlet & outlet, scatter waste	2	ea @	\$27.50	per ea =	\$55.00
Construct settling pond	6	ea @	\$27.50	per ea =	\$165.00
Improve turnout	10	ea @	\$36.30	per ea =	\$363.00
Construct turnaround	1	ea @	\$90.75	per ea =	\$90.75
Grade & roll (outslope)	22.60	sta @	\$35.45	per sta =	\$801.17
Grade, ditch, & roll	86.60	sta @	\$39.65	per sta =	\$3,433.69

**TOTAL IMPROVEMENT COSTS = \$7,106.53**

### CULVERTS

Markers & Stakes					
Culvert markers	2	ea @	\$12.00	per ea =	\$24.00

**TOTAL CULVERT COSTS = \$24.00**

### ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
<b>Surfacing rock</b>						
Spot rock	1½" - 0	\$19.64	\$25.27	\$1.35	294	\$13,600.44
Turnaround	1½" - 0	\$19.64	\$25.27	\$1.35	6	\$277.56
Subtotal =					300	\$13,878.00

Totals	All Rock =	300
	1½" - 0	300

**TOTAL ROCK COSTS = \$13,878.00**

### EROSION CONTROL

Grass seed & fertilizer	1.26	ac @	\$467.50	per ac =	\$589.05
-------------------------	------	------	----------	----------	----------

**TOTAL EROSION CONTROL COSTS = \$589.05**

**TOTAL PROJECT COST = \$21,597.58**



# SUMMARY OF CONSTRUCTION COST

Timber Sale: Bible Creek  
 Road Segment: M to N

Sale Number: FG-341-2024-W00952-01  
 Improvement: 13+00 stations  
0.25 miles

## PROJECT NO. 2: ROAD IMPROVEMENT

### IMPROVEMENT

Clearing & grubbing (scatter)	0.15	ac @	\$1,692.00	per acre =	\$253.80
Improve turnout	1	ea @	\$36.30	per ea =	\$36.30
Improve turnaround	1	ea @	\$45.38	per ea =	\$45.38
Approach to landing	3.00	sta @	\$759.00	per sta =	\$2,277.00
Improve landing	1	ea @	\$172.70	per ea =	\$172.70
Grade, ditch, & roll	13.00	sta @	\$39.65	per sta =	\$515.45

**TOTAL IMPROVEMENT COSTS = \$3,300.63**

### ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
<b>Surfacing rock</b>						
Spot rock	1½" - 0	\$19.64	\$25.27	\$1.35	34	\$1,572.84
Turnaround	1½" - 0	\$19.64	\$25.27	\$1.35	6	\$277.56
Approach to landing	1½" - 0	\$19.64	\$25.27	\$1.35	45	\$2,081.70
Landing	1½" - 0	\$19.64	\$25.27	\$1.35	45	\$2,081.70
Subtotal =					130	\$6,013.80

Totals

All Rock =	130
1½" - 0	130

**TOTAL ROCK COSTS = \$6,013.80**

### EROSION CONTROL

Grass seed & fertilizer	0.15	ac @	\$467.50	per ac =	\$70.13
-------------------------	------	------	----------	----------	---------

**TOTAL EROSION CONTROL COSTS = \$70.13**

**TOTAL PROJECT COST = \$9,384.55**

# SUMMARY OF CONSTRUCTION COST

Timber Sale: Bible Creek  
Road Segment: O to P

Sale Number: FG-341-2024-W00952-01  
Construction: 5+50 stations  
0.10 miles

## PROJECT NO. 1: DIRT ROAD CONSTRUCTION

### CONSTRUCTION

Clearing & grubbing (scatter)	0.64	ac @	\$1,692.00	per ac =	\$1,082.88
Balanced road construction	5.50	sta @	\$120.00	per sta =	\$660.00
Turnaround	1	ea @	\$90.75	per ea =	\$90.75
Landing	1	ea @	\$345.40	per ea =	\$345.40
Grade & roll (outslope)	5.50	sta @	\$35.45	per sta =	\$194.98

TOTAL CONSTRUCTION COSTS = \$2,374.01

### EROSION CONTROL

Grass seed & fertilizer	0.32	ac @	\$550.00	per ac =	\$176.00
-------------------------	------	------	----------	----------	----------

TOTAL EROSION CONTROL COSTS = \$176.00

**TOTAL PROJECT COST = \$2,550.01**

## PROJECT NO. 3: ROAD VACATING

### VACATING

Construct tank trap	1	ea @	\$60.50	per ea =	\$60.50
Construct waterbar	2	ea @	\$30.25	per ea =	\$60.50

TOTAL CONSTRUCTION COSTS = \$121.00

### EROSION CONTROL

Grass seed & fertilizer	0.32	ac @	\$467.50	per ac =	\$149.60
-------------------------	------	------	----------	----------	----------

TOTAL EROSION CONTROL COSTS = \$149.60

**TOTAL PROJECT COST = \$270.60**

# SUMMARY OF CONSTRUCTION COST

Timber Sale: Bible Creek  
 Road Segment: Q to R

Sale Number: FG-341-2024-W00952-01  
 Construction: 2+20 stations  
0.04 miles

## PROJECT NO. 1: DIRT ROAD CONSTRUCTION

### CONSTRUCTION

Clearing & grubbing (scatter)	0.26	ac @	\$1,692.00	per ac =	\$439.92
Balanced road construction	2.20	sta @	\$120.00	per sta =	\$264.00
Landing	1	ea @	\$345.40	per ea =	\$345.40
Grade & roll (outslope)	2.20	sta @	\$35.45	per sta =	\$77.99

**TOTAL CONSTRUCTION COSTS =** \$1,127.31

### EROSION CONTROL

Grass seed & fertilizer	0.13	ac @	\$550.00	per ac =	\$71.50
-------------------------	------	------	----------	----------	---------

**TOTAL EROSION CONTROL COSTS =** \$71.50

**TOTAL PROJECT COST =** \$1,198.81

## PROJECT NO. 3: ROAD VACATING

### VACATING

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

**TOTAL CONSTRUCTION COSTS =** \$90.75

### EROSION CONTROL

Grass seed & fertilizer	0.13	ac @	\$467.50	per ac =	\$60.78
-------------------------	------	------	----------	----------	---------

**TOTAL EROSION CONTROL COSTS =** \$60.78

**TOTAL PROJECT COST =** \$151.53

# SUMMARY OF CONSTRUCTION COST

Timber Sale: Bible Creek  
 Road Segment: S to T

Sale Number: FG-341-2024-W00952-01  
 Construction: 16+00 stations  
0.30 miles

## PROJECT NO. 1: DIRT ROAD CONSTRUCTION

### CONSTRUCTION

Clearing & grubbing (scatter)	1.84	ac @	\$1,692.00	per ac =	\$3,113.28
Balanced road construction	16.00	sta @	\$120.00	per sta =	\$1,920.00
Turnout	2	ea @	\$72.60	per ea =	\$145.20
Turnaround	1	ea @	\$90.75	per ea =	\$90.75
Roadside landing	1	ea @	\$181.50	per ea =	\$181.50
Landing	1	ea @	\$345.40	per ea =	\$345.40
Grade & roll (outslope)	16.00	sta @	\$35.45	per sta =	\$567.20

TOTAL CONSTRUCTION COSTS = \$6,363.33

### CULVERTS

Culverts and Bands					
18" Diameter	30	lf @	\$22.05	per lf =	\$661.50
24" Diameter	40	lf @	\$31.90	per lf =	\$1,276.00

TOTAL CULVERT COSTS = \$1,937.50

### EROSION CONTROL

Grass seed & fertilizer	0.92	ac @	\$550.00	per ac =	\$506.00
Straw mulch (bale)	2	ea @	\$11.00	per ea =	\$22.00

TOTAL EROSION CONTROL COSTS = \$528.00

**TOTAL PROJECT COST = \$8,828.83**

## PROJECT NO. 3: ROAD VACATING

### VACATING

Construct tank trap	1	ea @	\$60.50	per ea =	\$60.50
Construct waterbar	5	ea @	\$30.25	per ea =	\$151.25
Remove existing culverts	1	ea @	\$165.00	per ea =	\$165.00

TOTAL CONSTRUCTION COSTS = \$376.75

### EROSION CONTROL

Grass seed & fertilizer	0.92	ac @	\$467.50	per ac =	\$430.10
Straw mulch (bale)	2	ea @	\$11.00	per ea =	\$22.00

TOTAL EROSION CONTROL COSTS = \$452.10

**TOTAL PROJECT COST = \$828.85**

SUMMARY OF CONSTRUCTION COST

Timber Sale: Bible Creek  
Road Segment: U to V

Sale Number: FG-341-2024-W00952-01  
Construction: 13+00 stations  
0.25 miles

**PROJECT NO. 1: DIRT ROAD CONSTRUCTION**

CONSTRUCTION

Clearing & grubbing (scatter)	1.50	ac @	\$1,692.00	per ac =	\$2,538.00
Balanced road construction	13.00	sta @	\$120.00	per sta =	\$1,560.00
Turnout	2	ea @	\$72.60	per ea =	\$145.20
Turnaround	1	ea @	\$90.75	per ea =	\$90.75
Landing	1	ea @	\$345.40	per ea =	\$345.40
Grade, ditch, & roll	13.00	sta @	\$39.65	per sta =	\$515.45

TOTAL CONSTRUCTION COSTS = \$5,194.80

EROSION CONTROL

Grass seed & fertilizer	0.75	ac @	\$550.00	per ac =	\$412.50
-------------------------	------	------	----------	----------	----------

TOTAL EROSION CONTROL COSTS = \$412.50

**TOTAL PROJECT COST =** **\$5,607.30**

**PROJECT NO. 3: ROAD VACATING**

VACATING

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

TOTAL CONSTRUCTION COSTS = \$181.50

EROSION CONTROL

Grass seed & fertilizer	0.75	ac @	\$467.50	per ac =	\$350.63
-------------------------	------	------	----------	----------	----------

TOTAL EROSION CONTROL COSTS = \$350.63

**TOTAL PROJECT COST =** **\$532.13**

# SUMMARY OF CONSTRUCTION COST

Timber Sale: Bible Creek  
 Road Segment: W to X

Sale Number: FG-341-2024-W00952-01  
 Construction: 4+00 stations  
0.08 miles

## PROJECT NO. 1: DIRT ROAD CONSTRUCTION

### CONSTRUCTION

Clearing & grubbing (scatter)	0.46	ac @	\$1,692.00	per ac =	\$778.32
Balanced road construction	4.00	sta @	\$120.00	per sta =	\$480.00
Turnaround	1	ea @	\$90.75	per ea =	\$90.75
Landing	1	ea @	\$345.40	per ea =	\$345.40
Grade, ditch, & roll	4.00	sta @	\$39.65	per sta =	\$158.60

TOTAL CONSTRUCTION COSTS = \$1,853.07

### EROSION CONTROL

Grass seed & fertilizer	0.23	ac @	\$550.00	per ac =	\$126.50
-------------------------	------	------	----------	----------	----------

TOTAL EROSION CONTROL COSTS = \$126.50

**TOTAL PROJECT COST = \$1,979.57**

## PROJECT NO. 3: ROAD VACATING

### VACATING

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

TOTAL CONSTRUCTION COSTS = \$90.75

### EROSION CONTROL

Grass seed & fertilizer	0.23	ac @	\$467.50	per ac =	\$107.53
-------------------------	------	------	----------	----------	----------

TOTAL EROSION CONTROL COSTS = \$107.53

**TOTAL PROJECT COST = \$198.28**

# SUMMARY OF CONSTRUCTION COST

Timber Sale: Bible Creek  
 Road Segment: H to Y

Sale Number: FG-341-2024-W00952-01  
 Construction: 9+00 stations  
0.17 miles

## PROJECT NO. 1: DIRT ROAD CONSTRUCTION

### CONSTRUCTION

Clearing & grubbing (scatter)	1.04	ac @	\$1,692.00	per ac =	\$1,759.68
Balanced road construction	9.00	sta @	\$120.00	per sta =	\$1,080.00
Turnout	1	ea @	\$72.60	per ea =	\$72.60
Turnaround	1	ea @	\$90.75	per ea =	\$90.75
Roadside landing	1	ea @	\$181.50	per ea =	\$181.50
Landing	1	ea @	\$345.40	per ea =	\$345.40
Grade & roll (outslope)	9.00	sta @	\$35.45	per sta =	\$319.05

TOTAL CONSTRUCTION COSTS = \$3,848.98

### EROSION CONTROL

Grass seed & fertilizer	0.52	ac @	\$550.00	per ac =	\$286.00
-------------------------	------	------	----------	----------	----------

TOTAL EROSION CONTROL COSTS = \$286.00

TOTAL PROJECT COST = \$4,134.98

## PROJECT NO. 3: ROAD VACATING

### VACATING

Construct tank trap	1	ea @	\$60.50	per ea =	\$60.50
Construct waterbar	2	ea @	\$30.25	per ea =	\$60.50

TOTAL CONSTRUCTION COSTS = \$121.00

### EROSION CONTROL

Grass seed & fertilizer	0.52	ac @	\$467.50	per ac =	\$243.10
-------------------------	------	------	----------	----------	----------

TOTAL EROSION CONTROL COSTS = \$243.10

TOTAL PROJECT COST = \$364.10

# SUMMARY OF CONSTRUCTION COST

Timber Sale: Bible Creek  
Road Segment: Z to AA

Sale Number: FG-341-2024-W00952-01  
Construction: 19+50 stations  
0.37 miles

## PROJECT NO. 1: DIRT ROAD CONSTRUCTION

### CONSTRUCTION

Clearing & grubbing (scatter)	2.24	ac @	\$1,692.00 per ac =	\$3,790.08
Balanced road construction	18.00	sta @	\$120.00 per sta =	\$2,160.00
Drift	1.50	sta @	\$198.00 per sta =	\$297.00
Fill construction				
Drift & compact fill	50	cy @	\$1.55 per cy =	\$77.50
Pump culvert installation	1	day @	\$165.00 per day =	\$165.00
Remove existing culverts	1	ea @	\$165.00 per ea =	\$165.00
Turnout	3	ea @	\$72.60 per ea =	\$217.80
Turnaround	1	ea @	\$90.75 per ea =	\$90.75
Landing	1	ea @	\$345.40 per ea =	\$345.40
Grade & roll (outslope)	16.50	sta @	\$35.45 per sta =	\$584.93
Grade, ditch, & roll	3.00	sta @	\$39.65 per sta =	\$118.95

TOTAL CONSTRUCTION COSTS = \$8,012.41

### CULVERTS

Culverts and Bands				
24" Diameter	40	lf @	\$31.90 per lf =	\$1,276.00
36" Diameter	50	lf @	\$55.05 per lf =	\$2,752.50
Markers & Stakes				
Culvert markers	2	ea @	\$12.00 per ea =	\$24.00

TOTAL CULVERT COSTS = \$4,052.50

### EROSION CONTROL

Grass seed & fertilizer	1.12	ac @	\$550.00 per ac =	\$616.00
Straw mulch (bale)	2	ea @	\$11.00 per ea =	\$22.00

TOTAL EROSION CONTROL COSTS = \$638.00

**TOTAL PROJECT COST = \$12,702.91**

## PROJECT NO. 3: ROAD VACATING

### VACATING

Construct tank trap	1	ea @	\$60.50 per ea =	\$60.50
Construct waterbar	4	ea @	\$30.25 per ea =	\$121.00
Remove existing culverts	2	ea @	\$165.00 per ea =	\$330.00

TOTAL CONSTRUCTION COSTS = \$511.50

### EROSION CONTROL

Grass seed & fertilizer	1.12	ac @	\$467.50 per ac =	\$523.60
Straw mulch (bale)	2	ea @	\$11.00 per ea =	\$22.00

TOTAL EROSION CONTROL COSTS = \$545.60

**TOTAL PROJECT COST = \$1,057.10**



SUMMARY OF CONSTRUCTION COST

Timber Sale:	<u>Bible Creek</u>	Sale Number:	<u>FG-341-2024-W00952-01</u>
Road Segment:	<u>V1 to V2</u>	Vacating:	<u>4+00</u> stations
			<u>0.08</u> miles

**PROJECT NO. 3: ROAD VACATING**

Construct tank trap	1	ea @	\$60.50	per ea =	\$60.50
Construct waterbar	1	ea @	\$30.25	per ea =	\$30.25
Rip dirt road surface	4.00	sta @	\$27.50	per sta =	\$110.00
Grass seed & fertilizer	0.23	ac @	\$467.50	per ac =	\$107.53
<b>TOTAL PROJECT COST =</b>					<u><u>\$308.28</u></u>

## RESIDUAL STAND SPECIFICATIONS

SALE NAME: Bible Creek  
SALE NUMBER: FG-341-2024-W00952-01

### Unit 1

Residual QMD assumption (from leave tree cruise information) = 

15
----

  
Target Relative Density = 

34
----

	Minimum	Target	Maximum
Relative Density	31	34	36
Basal Area	120	130	140
Trees per Acre	98	106	114

### Unit 2

Residual QMD assumption (from leave tree cruise information) = 

14
----

  
Target Relative Density = 

35
----

	Minimum	Target	Maximum
Relative Density	32	35	37
Basal Area	120	130	140
Trees per Acre	112	122	131

### Unit 3

Residual QMD assumption (from leave tree cruise information) = 

18
----

  
Target Relative Density = 

31
----

	Minimum	Target	Maximum
Relative Density	28	31	33
Basal Area	120	130	140
Trees per Acre	68	74	79

### Unit 4

Residual QMD assumption (from leave tree cruise information) = 

16
----

  
Target Relative Density = 

33
----

	Minimum	Target	Maximum
Relative Density	30	33	35
Basal Area	120	130	140
Trees per Acre	86	93	100

**CRUISE REPORT**  
**Bible Creek**  
**#FG-341-2024-W00952-01**

**1. LOCATION:** Portions of Section 34, T3S, R7W, W.M., Tillamook County, OR. Portions of Sections 10 & 16, T4S, R7W, W.M., Tillamook County, OR.

**2. CRUISE DESIGN:**

Pre-cruise evaluation indicated that the stand's average DBH is approximately 13 inches with a Coefficient of Variation of 60%. 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 44 variable radius grade plots utilizing a 20 BAF prism would produce an adequate sample size.

**3. SAMPLING METHOD:**

The Timber Sale Area was cruised in October and November of 2023. Unit 1, Unit 2, Unit 3, and Unit 4 were sampled with 44 variable radius grade plots. Plots falling on or near existing roads or no-harvest areas were offset 1 chain. In Unit 1, Unit 2, Unit 3, and Unit 4, cruisers chose 'Take' trees as though thinning from below to achieve a residual basal area target of 130 ft<sup>2</sup>. The Unit 5 Right-of-Way volume was determined by manual math with information provided by SuperAce report statistics and acreage obtained through ArcGIS PRO software.

**4. CRUISE RESULTS:**

258 Douglas-fir trees were measured and graded producing a cumulative Sampling Error of 7.0% on the Basal Area and 7.4% on the Board Foot Volume for Douglas-fir.

**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. For conifers, 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, Kenton Burns, Shamus Smith, Colton Turner, and Mark Savage.

Prepared by: Colton Turner 11/6/2023  
Date

Reviewed by: Mark Savage 11/15/2023  
Date

TC PSTATS				PROJECT STATISTICS				PAGE	1		
				PROJECT	BIBLECRK			DATE	11/6/2023		
TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt		
T3S	R7	34	00U1	00PC	109.00	21	267	S	W		
				TREES	ESTIMATED	PERCENT					
				PER PLOT	TOTAL	SAMPLE					
				TREES	TREES	TREES					
TOTAL			21	267	12.7						
CRUISE			21	267	12.7	29,202	.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			133	103.3	15.0	100	32.7	126.7	19,740	19,740	4,404
DOUG FIR-S			7	10.5	10.8	62	2.0	6.7			
DOUG FIR-T			122	148.4	12.0	91	33.6	116.2	14,702	14,497	3,378
R ALDER-L			3	4.1	11.3	78	0.8	2.9	314	314	76
WHEMLOCK-L			1	1.0	13.0	104	0.3	1.0	196	196	38
GR FIR-L			1	.6	17.0	98	0.2	1.0	145	145	35
TOTAL			267	267.9	13.2	93	70.0	254.3	35,098	34,892	7,930
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			115.9	10.0	233	258	284				
DOUG FIR-S											
DOUG FIR-T			121.3	11.0	124	139	154				
R ALDER-L			15.1	10.4	69	77	85				
WHEMLOCK-L											
GR FIR-L											
TOTAL			128.0	7.8	179	195	210	654	163	73	
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			97.3	8.4	51	56	61				
DOUG FIR-S											
DOUG FIR-T			115.8	10.5	29	32	36				
R ALDER-L			42.2	29.2	14	20	26				
WHEMLOCK-L											
GR FIR-L											
TOTAL			111.0	6.8	40	43	46	492	123	55	
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			29.4	6.6	97	103	110				
DOUG FIR-S			190.9	42.7	6	10	15				
DOUG FIR-T			56.3	12.6	130	148	167				
R ALDER-L			367.1	82.0	1	4	7				
WHEMLOCK-L			458.3	102.4		1	2				
GR FIR-L			458.3	102.4		1	1				
TOTAL			34.7	7.8	247	268	289	51	13	6	
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			7.6	1.7	125	127	129				
DOUG FIR-S			219.1	49.0	3	7	10				
DOUG FIR-T			47.0	10.5	104	116	128				
R ALDER-L			334.7	74.8	1	3	5				

TC PSTATS				<b>PROJECT STATISTICS</b>				PAGE	2
				PROJECT BIBLECRK				DATE	11/6/2023
TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
T3S	R7	34	00U1	0000C	109.00	21	267	S	W
CL	68.1		COEFF		BASAL AREA/ACRE			# OF PLOTS REQ.	
SD:	1.00		VAR.	S.E.%	LOW	AVG	HIGH	5	10
WHEMLOCK-L			458.3	102.4		1	2		
GR FIR-L			458.3	102.4		1	2		
TOTAL			23.6	5.3	241	254	268	23	6
CL	68.1		COEFF		NET BF/ACRE			# OF PLOTS REQ.	
SD:	1.0		VAR.%	S.E.%	LOW	AVG	HIGH	5	10
DOUG FIR-L			21.8	4.9	18,778	19,740	20,702		
DOUG FIR-S									
DOUG FIR-T			55.4	12.4	12,702	14,497	16,291		
R ALDER-L			374.0	83.6	52	314	577		
WHEMLOCK-L			458.3	102.4		196	397		
GR FIR-L			458.3	102.4		145	294		
TOTAL			31.8	7.1	32,413	34,892	37,372	42	11
CL	68.1		COEFF		NET CUFT FT/ACRE			# OF PLOTS REQ.	
SD:	1.0		VAR.%	S.E.%	LOW	AVG	HIGH	5	10
DOUG FIR-L			16.7	3.7	4,239	4,404	4,569		
DOUG FIR-S									
DOUG FIR-T			52.7	11.8	2,980	3,378	3,775		
R ALDER-L			330.9	74.0	20	76	132		
WHEMLOCK-L			458.3	102.4		38	77		
GR FIR-L			458.3	102.4		35	70		
TOTAL			28.2	6.3	7,430	7,930	8,430	33	8

TC		Species, Sort Grade - Board Foot Volumes (Project)																					
PSPCSTGR																							
TT3S RR7W S34 Ty0007C				109.00		Project:		BIBLECRK										Page		1			
						Acres		109.00										Date		11/6/2023			
																		Time		3:42:51PM			
S Spp			So Gr rt ad			% Net BdFt	Bd. Ft. per Acre Def% Gross Net			Total Net MBF	Percent of Net Board Foot Volume								Average Log				Logs Per /Acre
											Log Scale Dia.				Log Length				Ln Dia Bd CF/ Ft In Ft Lf				
DF	L	3M	99		19,639	19,639		2,141		76	17	6		32	33	35	33	8	92	0.63	213.4		
DF	L	4M	1		101	101		11		100				100			24	7	35	0.36	2.9		
DF Totals				57		19,740	19,740		2,152		77	17	6		33	32	35	33	8	91	0.62	216.3	
DF	T	CU															21	7		0.00	5.0		
DF	T	2M	8	3.2	1,337	1,295		141			59	41			8	92	39	15	336	1.88	3.9		
DF	T	3M	81	1.4	11,804	11,641		1,269		100			1		4	95	39	7	77	0.46	151.5		
DF	T	4M	11		1,561	1,561		170		100			50	50			20	6	24	0.28	64.5		
DF Totals				42	1.4	14,702	14,497		1,580		91	5	4	6	5	4	84	33	7	64	0.45	224.8	
DF	S	CU															26	6		0.00	11.1		
DF Totals																	26	6		0.00	11.1		
RA	L	CR	100		314	314		34		100				41		59	29	8	57	0.47	5.5		
RA Totals				1		314	314		34		100			41		59	29	8	57	0.47	5.5		
WH	L	3M	100		196	196		21		100					68	32	36	8	95	0.52	2.1		
WH Totals				1		196	196		21		100				68	32	36	8	95	0.52	2.1		
GF	L	3M	100		145	145		16		25	75					100	37	9	120	0.79	1.2		
GF Totals				0		145	145		16		25	75				100	37	9	120	0.79	1.2		
Totals					0.6	35,098	34,892		3,803		83	12	5	3	21	20	56	33	8	76	0.53	461.0	

TC		PSTNDSUM										Stand Table Summary										Page		1		
												Date:		11/6/2023												
TT3S RR7W S34 Ty000PC					109.00					Project					BIBLECRK					Time:		3:42:52PM				
										Acres					109.00					Grown Year:						
S	T	Sample			Tot		Trees/			Average Log		Net		Net		Totals										
		DBH	Trees	FF	Av	16'	Ht	Acre	BA/Acre	Logs	Net	Net	Tons/Acre	Cu.Ft. Acre	Bd.Ft. Acre	Tons	Cunits	MBF								
DF L		9	1	87	93			2.156	.95	2.16	10.1	60.0	.62	22	129	68	24	14								
DF L		10	2	88	80			3.492	1.90	3.49	13.1	70.0	1.30	46	244	142	50	27								
DF L		11	1	87	86			1.443	.95	2.89	8.6	35.0	.71	25	101	77	27	11								
DF L		12	9	88	90			10.913	8.57	21.83	10.6	41.7	6.60	232	909	720	253	99								
DF L		13	14	88	95			14.465	13.33	28.93	14.2	61.1	11.72	411	1,767	1,278	448	193								
DF L		14	17	88	95			15.145	16.19	30.29	17.4	79.7	15.04	528	2,414	1,640	575	263								
DF L		15	34	88	102			26.386	32.38	54.32	20.4	92.3	31.59	1,109	5,013	3,444	1,208	546								
DF L		16	17	88	107			11.596	16.19	26.60	22.4	99.5	17.02	597	2,647	1,855	651	288								
DF L		17	11	88	109			6.646	10.48	16.31	24.1	108.5	11.19	392	1,770	1,219	428	193								
DF L		18	10	89	111			5.389	9.52	14.01	25.9	112.3	10.34	363	1,574	1,127	395	172								
DF L		19	4	87	109			1.935	3.81	4.84	29.5	128.0	4.07	143	619	444	156	67								
DF L		20	1	89	122			.437	.95	1.31	31.1	156.7	1.16	41	205	127	44	22								
DF L		21	3	87	110			1.188	2.86	2.77	39.3	158.6	3.10	109	440	338	119	48								
DF L		22	1	86	92			.361	.95	.72	43.3	160.0	.89	31	115	97	34	13								
DF L		23	1	85	102			.330	.95	.99	33.0	140.0	.93	33	139	101	36	15								
DF L		25	2	87	137			.559	1.90	1.68	52.8	253.3	2.52	88	425	275	96	46								
DF L		27	1	89	138			.240	.95	.72	66.2	330.0	1.36	48	237	148	52	26								
DF L		30	2	86	144			.388	1.90	1.36	69.5	350.0	2.69	94	475	293	103	52								
DF L		32	1	86	142			.171	.95	.68	66.3	352.5	1.29	45	240	140	49	26								
DF L		42	1	86	149			.099	.95	.40	121.0	695.0	1.37	48	275	149	52	30								
DF L		Totals	133	88	100			103.339	126.67	216.30	20.4	91.3	125.52	4,404	19,740	13,681	4,801	2,152								
DFT		8	2	86	73			5.457	1.90	5.46	4.6	20.0	.72	25	109	79	28	12								
DFT		9	4	88	87			8.623	3.81	8.62	9.5	50.0	2.35	82	431	256	90	47								
DFT		10	20	87	85			34.923	19.05	34.92	12.6	59.5	12.58	441	2,078	1,371	481	226								
DFT		11	20	88	90			28.862	19.05	37.52	12.7	54.2	13.56	476	2,035	1,478	518	222								
DFT		12	22	88	92			26.677	20.95	48.50	12.5	51.8	17.24	605	2,510	1,879	659	274								
DFT		13	15	88	93			15.498	14.29	31.00	14.1	57.7	12.44	436	1,787	1,355	476	195								
DFT		14	20	88	99			17.818	19.05	32.07	19.0	79.4	17.38	610	2,548	1,895	665	278								
DFT		15	6	88	108			4.656	5.71	8.54	23.6	106.4	5.73	201	908	625	219	99								
DFT		16	3	87	104			2.046	2.86	4.09	23.8	98.3	2.77	97	402	302	106	44								
DFT		17	2	88	105			1.208	1.90	2.42	29.7	117.5	2.04	72	284	223	78	31								
DFT		18	2	89	112			1.078	1.90	2.69	27.4	110.0	2.10	74	296	229	80	32								
DFT		23	1	85	110			.330	.95	.66	56.9	225.0	1.07	38	149	117	41	16								
DFT		24	1	85	99			.303	.95	.61	57.9	200.0	1.00	35	121	109	38	13								
DFT		26	1	84	118			.258	.95	.77	51.2	210.0	1.13	40	163	123	43	18								
DFT		28	2	86	148			.445	1.90	1.34	71.8	335.0	2.74	96	448	298	105	49								
DFT		30	1	86	154			.194	.95	.58	85.7	390.0	1.42	50	227	155	54	25								
DFT		Totals	122	88	91			148.379	116.19	219.80	15.4	66.0	96.27	3,378	14,497	10,493	3,682	1,580								
RAL		10	1	92	80			1.746	.95	1.75	13.1	70.0	.63	23	122	69	25	13								
RAL		11	1	92	80			1.443	.95	2.89	9.1	45.0	.72	26	130	79	29	14								
RAL		14	1	74	70			.891	.95	.89	29.9	70.0	.73	27	62	80	29	7								
RAL		Totals	3	88	78			4.080	2.86	5.52	13.7	56.9	2.08	76	314	227	83	34								
WHL		13	1	93	104			1.033	.95	2.07	18.3	95.0	1.21	38	196	132	41	21								
WHL		Totals	1	93	104			1.033	.95	2.07	18.3	95.0	1.21	38	196	132	41	21								
GF L		17	1	88	98			.604	.95	1.21	28.7	120.0	.76	35	145	83	38	16								
GF L		Totals	1	88	98			.604	.95	1.21	28.7	120.0	.76	35	145	83	38	16								
DFS		8	2	86	64			5.457	1.90																	
DFS		10	1	86	70			1.746	.95																	
DFS		11	1	86	70			1.443	.95																	

TC		PSTNDSUM										Stand Table Summary						Page		2	
												Date:		11/6/2023							
		TT3S RR7W S34 Ty00MC				109.00		Project		BIBLECRK				Time:		3:42:52PM					
								Acres		109.00				Grown Year:							
S	T	Sample		Tot		Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals							
		DBH	Trees	FF 16'	Av Ht				Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF					
DFS	S	16	1	78	40	.682	.95														
DFS	S	17	1	88	66	.604	.95														
DFS	S	18	1	57	25	.539	.95														
DFS	S	Totals		7	84	62	10.471	6.67													
Totals		267		88	93	267.906	254.29	444.89	17.8	78.4	225.84	7,930	34,892	24,617	8,644	3,803					





TC		PLOGSTVB																		Log Stock Table - MBF									
TT3S RR7W S34 Ty007C												109.00		Project:		BIBLECRK										Page		2	
														Acres		109.00										Date		11/6/2023	
																										Time		3:42:50PM	
Spp	S T	So rt	Gr de	Log Len	Gross MBF	Def %	Net MBF	% Spe	Net Volume by Scaling Diameter in Inches																				
									2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+									
DF		Totals			1,603	1.4	1,580	41.5			845	465	130	35	39	36	30												
RA	L		CR	21	8		8	22.9				8																	
RA	L		CR	22	6		6	18.4			6																		
RA	L		CR	37	13		13	38.9			13																		
RA	L		CR	40	7		7	19.8			7																		
RA		Totals			34		34	.9			26	8																	
WH	L		3M	35	15		15	68.4					15																
WH	L		3M	36	7		7	31.6			7																		
WH		Totals			21		21	.6			7		15																
GF	L		3M	36	12		12	75.0					12																
GF	L		3M	37	4		4	25.0			4																		
GF		Totals			16		16	.4			4		12																
Total		All Species			3,826		3,803	100.0			1439	728	980	331	115	94	90	10	15										

TC PSTATS			PROJECT STATISTICS						PAGE	1		
			PROJECT		BIBLECRK				DATE	11/7/2023		
TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt		
T3S	R7	34	00U2	00MC		51.00	8	116	S	W		
			PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES					
TOTAL			8	116	14.5							
CRUISE			8	116	14.5	19,638	.6					
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-L			45	102.0	14.2	99	29.8	112.5	16,921	16,921	3,786	3,786
DOUG FIR-S			10	48.3	9.7	66	8.0	25.0				
DOUG FIR-T			58	227.8	10.8	87	44.1	145.0	16,644	16,608	3,745	3,745
WHEMLOCK-L			2	4.7	14.0	95	1.3	5.0	795	795	177	177
WR CEDAR-L			1	2.3	14.0	68	0.7	2.5	187	187	57	57
TOTAL			116	385.1	11.8	88	84.6	290.0	34,547	34,511	7,766	7,766
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			33.4	5.0	174	183	192					
DOUG FIR-S												
DOUG FIR-T			44.8	5.9	79	84	89					
WHEMLOCK-L			25.0	23.4	130	170	210					
WR CEDAR-L												
TOTAL			64.6	6.0	110	117	124	167	42	19		
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			35.0	5.2	39	41	43					
DOUG FIR-S												
DOUG FIR-T			54.0	7.1	18	20	21					
WHEMLOCK-L			12.5	11.7	33	38	42					
WR CEDAR-L												
TOTAL			65.9	6.1	25	27	28	173	43	19		
CL	68.1	COEFF	TREES/ACRE				# OF PLOTS REQ.		INF. POP.			
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5 10		15			
DOUG FIR-L			21.7	8.2	94	102	110					
DOUG FIR-S			109.1	41.1	28	48	68					
DOUG FIR-T			37.3	14.1	196	228	260					
WHEMLOCK-L			185.2	69.8	1	5	8					
WR CEDAR-L			282.8	106.6		2	5					
TOTAL			29.0	10.9	343	385	427	38	10	4		
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			16.3	6.1	106	113	119					
DOUG FIR-S			102.5	38.7	15	25	35					
DOUG FIR-T			19.2	7.2	135	145	155					
WHEMLOCK-L			185.2	69.8	2	5	8					
WR CEDAR-L			282.8	106.6		3	5					
TOTAL			13.3	5.0	275	290	305	8	2	1		

**PROJECT STATISTICS**  
**PROJECT BIBLECRK**

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
T3S	R7	34	00U2	00MC	51.00	8	116	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		14.5	5.5	15,993	16,921	17,849			
DOUG FIR-S									
DOUG FIR-T		19.4	7.3	15,391	16,608	17,825			
WHEMLOCK-L		189.0	71.2	229	795	1,362			
WR CEDAR-L		282.8	106.6		187	387			
<b>TOTAL</b>		<b>11.1</b>	<b>4.2</b>	<b>33,070</b>	<b>34,511</b>	<b>35,952</b>	<b>6</b>	<b>1</b>	<b>1</b>

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		16.2	6.1	3,555	3,786	4,017			
DOUG FIR-S									
DOUG FIR-T		16.5	6.2	3,512	3,745	3,979			
WHEMLOCK-L		186.1	70.2	53	177	302			
WR CEDAR-L		282.8	106.6		57	119			
<b>TOTAL</b>		<b>11.0</b>	<b>4.1</b>	<b>7,444</b>	<b>7,766</b>	<b>8,088</b>	<b>5</b>	<b>1</b>	<b>1</b>

TC		PSPCSTGR Species, Sort Grade - Board Foot Volumes (Project)																					
TT3S RR7W S34 Ty007C				51.00		Project:		BIBLECRK								Page		1					
						Acres		51.00								Date		11/7/2023					
																Time		11:06:37AM					
Spp	S	So Gr	T	rt ad	% Net BdFt	Bd. Ft. per Acre			Total Net MBF	Percent of Net Board Foot Volume								Average Log				Logs Per /Acre	
						Def%	Gross	Net		Log Scale Dia.				Log Length				Ln Ft	Dia In	Bd Ft	CF/ Lf		
										4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99						
DF	L	3M			100		16,921	16,921	863		94	6			15	51	34	34	8	84	0.56	200.8	
DF Totals					49		16,921	16,921	863		94	6			15	51	34	34	8	84	0.56	200.8	
DF	T	2M			1	5.0	254	241	12			100				100	40	12	190	1.28	1.3		
DF	T	3M			84	.2	13,935	13,911	709			100				9	91	39	7	70	0.41	199.2	
DF	T	4M			15		2,455	2,455	125			100		41	59			20	6	25	0.26	99.8	
DF Totals					48	.2	16,644	16,608	847		99	1			6	9	7	78	33	7	55	0.38	300.3
DF	S	CU															26	6		0.00	57.6		
DF Totals																		26	6		0.00	57.6	
RC	L	3M			100		187	187	10			100			100		22	8	40	0.57	4.7		
RC Totals					1		187	187	10			100			100		22	8	40	0.57	4.7		
WH	L	3M			100		795	795	41			100			41	59	34	8	85	0.57	9.4		
WH Totals					2		795	795	41			100			41	59	34	8	85	0.57	9.4		
Totals						0.1	34,547	34,511	1,760		96	4			3	13	29	56	32	7	60	0.42	572.7

TC		PSTNDSUM		Stand Table Summary										Page		1	
														Date:		11/7/2023	
TT3S RR7W S34 Ty00MC				51.00		Project				BIBLECRK				Time:		11:06:38AM	
						Acres				51.00				Grown Year:			
S SpC T	Sample		Tot		Trees/			Average Log		Net		Net		Totals			
	DBH	Trees	FF 16'	Av Ht	BA/ Acre	Logs Acre	Net Cu.Ft.	Net Bd.Ft.	Tons/ Acre	Cu.Ft. Acre	Bd.Ft. Acre	Tons	Cunits	MBF			
DF L	9	1	88	91	5.659	2.50	5.66	10.1	60.0	1.63	57	340	83	29	17		
DF L	12	5	89	97	15.916	12.50	31.83	11.8	50.0	10.73	376	1,592	547	192	81		
DF L	13	8	88	98	21.698	20.00	43.40	14.8	65.0	18.24	640	2,821	930	326	144		
DF L	14	8	89	99	18.709	20.00	37.42	18.5	89.4	19.78	694	3,344	1,009	354	171		
DF L	15	7	88	98	14.260	17.50	28.52	20.2	92.1	16.46	577	2,628	839	294	134		
DF L	16	7	88	101	12.533	17.50	25.07	25.0	110.0	17.88	628	2,757	912	320	141		
DF L	17	5	88	104	7.930	12.50	15.86	28.0	116.0	12.65	444	1,840	645	226	94		
DF L	18	2	89	107	2.829	5.00	7.07	26.0	114.0	5.24	184	806	267	94	41		
DF L	19	1	88	102	1.270	2.50	2.54	37.4	150.0	2.71	95	381	138	48	19		
DF L	20	1	88	110	1.146	2.50	3.44	26.4	120.0	2.59	91	413	132	46	21		
DF L	Totals	45	88	99	101.950	112.50	200.80	18.9	84.3	107.90	3,786	16,921	5,503	1,931	863		
DF T	8	4	87	86	28.648	10.00	28.65	5.6	30.0	4.54	159	859	232	81	44		
DF T	9	7	87	86	39.612	17.50	39.61	9.5	54.3	10.73	377	2,150	547	192	110		
DF T	10	11	88	84	50.420	27.50	50.42	12.6	60.0	18.09	635	3,025	923	324	154		
DF T	11	8	88	85	30.305	20.00	30.31	15.7	66.3	13.58	476	2,008	693	243	102		
DF T	12	13	88	91	41.380	32.50	76.39	12.3	51.2	26.78	940	3,915	1,366	479	200		
DF T	13	10	88	93	27.122	25.00	54.24	13.9	55.5	21.51	755	3,011	1,097	385	154		
DF T	14	3	88	93	7.016	7.50	14.03	17.3	73.3	6.90	242	1,029	352	123	52		
DF T	15	1	87	89	2.037	2.50	4.07	18.6	75.0	2.16	76	306	110	39	16		
DF T	19	1	88	96	1.270	2.50	2.54	33.9	120.0	2.45	86	305	125	44	16		
DF T	Totals	58	88	87	227.811	145.00	300.27	12.5	55.3	106.74	3,745	16,608	5,444	1,910	847		
WH L	14	2	89	95	4.677	5.00	9.35	18.9	85.0	5.67	177	795	289	90	41		
WH L	Totals	2	89	95	4.677	5.00	9.35	18.9	85.0	5.67	177	795	289	90	41		
RC L	14	1	76	68	2.339	2.50	4.68	12.3	40.0	1.35	57	187	69	29	10		
RC L	Totals	1	76	68	2.339	2.50	4.68	12.3	40.0	1.35	57	187	69	29	10		
DF S	8	1	87	80	7.162	2.50											
DF S	9	4	82	57	22.635	10.00											
DF S	10	2	84	62	9.167	5.00											
DF S	11	1	88	78	3.788	2.50											
DF S	12	1	87	71	3.183	2.50											
DF S	14	1	88	101	2.339	2.50											
DF S	Totals	10	84	66	48.275	25.00											
Totals		116	87	88	385.051	290.00	515.10	15.1	67.0	221.66	7,766	34,511	11,305	3,961	1,760		

TC		PLOGSTVB		Log Stock Table - MBF															
TT3S RR7W S34 Ty007C				51.00		Project: BIBLECRK		Page 1		Date 11/7/2023		Time 11:06:36AM							
				Acres		51.00													
Spp	S T	So Gr rt de	Log Len	Gross MBF	Def %	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches											
								2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
DF	L	3M	26	12		12	1.3					12							
DF	L	3M	27	7		7	.8					7							
DF	L	3M	28	37		37	4.3			2	16	7		12					
DF	L	3M	29	15		15	1.8			15									
DF	L	3M	30	55		55	6.4			6	49								
DF	L	3M	31	48		48	5.5			23	11	13							
DF	L	3M	32	92		92	10.7			28	50	14							
DF	L	3M	33	117		117	13.5			14	14	89							
DF	L	3M	34	146		146	16.9			63		83							
DF	L	3M	35	39		39	4.5			10		28							
DF	L	3M	36	66		66	7.6			23		42							
DF	L	3M	37	39		39	4.5			22		17							
DF	L	3M	38	97		97	11.2			23		74							
DF	L	3M	39	36		36	4.1			5		15	16						
DF	L	3M	40	53		53	6.1			24		15	14						
DF	L	3M	41	6		6	.7			6									
DF		Totals		863		863	49.0			266	140	404	42	12					
DF	T	2M	40	13	5.0	12	1.5					12							
DF	T	3M	34	61		61	7.2			61									
DF	T	3M	36	66		66	7.8			66									
DF	T	3M	38	14		14	1.7			14									
DF	T	3M	40	570		569	67.1			329	239								
DF	T	4M	12	1		1	.2			1									
DF	T	4M	14	10		10	1.1			10									
DF	T	4M	16	15		15	1.8			15									
DF	T	4M	18	16		16	1.9			16									
DF	T	4M	20	9		9	1.0			9									
DF	T	4M	22	14		14	1.7			14									
DF	T	4M	24	60		60	7.1			60									
DF		Totals		849		847	48.1			595	239	12							
RC	L	3M	21	6		6	62.5			6									
RC	L	3M	22	4		4	37.5			4									
RC		Totals		10		10	.5			4	6								
WH	L	3M	29	12		12	29.4					12							
WH	L	3M	30	5		5	11.8			5									
WH	L	3M	37	17		17	41.2					17							

TC PLOGSTVB				Log Stock Table - MBF															
TT3S RR7W S34 Ty007C51.00				Project: BIBLECRK				Page 2											
				Acres 51.00				Date 11/7/2023											
								Time 11:06:36AM											
Spp	S T	So Gr rt de	Log Len	Gross MBF	Def %	Net MBF	% Spe	Net Volume by Scaling Diameter in Inches											
								2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
WH	L	3M	38	7		7	17.6			7									
WH		Totals		41		41	2.3			12		29							
Total		All Species		1,762		1,760	100.0			877	385	433	54	12					



TC PSTATS				PROJECT STATISTICS				PAGE	1			
				PROJECT	BIBLECRK	DATE 11/2/2023						
TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt			
T3S	R7	34	00U3	00MC	20.00	4	52	S	W			
				TREES	ESTIMATED	PERCENT						
					TOTAL	SAMPLE						
PLOTS				TREES	PER PLOT	TREES	TREES					
TOTAL			4	52	13.0							
CRUISE			4	52	13.0	3,770	1.4					
DBH COUNT												
REFOREST												
COUNT												
BLANKS												
100 %												
STAND SUMMARY												
SAMPLE			TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET	
TREES			/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC	
DOUG FIR-L			26	74.4	17.9	99	30.7	130.0	19,859	19,859	4,564	4,564
DOUG FIR-S			3	13.7	14.2	63	4.0	15.0				
DOUG FIR-T			21	85.8	15.0	92	27.1	105.0	13,743	13,588	3,356	3,356
R ALDER-L			2	14.6	11.2	68	3.0	10.0	325	325	127	127
TOTAL			52	188.5	15.9	91	65.2	260.0	33,927	33,772	8,046	8,046
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		66.3	13.3	315	363	411						
DOUG FIR-S												
DOUG FIR-T		95.8	21.4	183	233	283						
R ALDER-L		141.4	132.4		30	70						
TOTAL		88.1	12.2	243	277	310	310	77	34			
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		62.7	12.5	72	82	92						
DOUG FIR-S												
DOUG FIR-T		99.4	22.2	45	58	71						
R ALDER-L		141.4	132.4		12	27						
TOTAL		86.3	12.0	57	65	73	297	74	33			
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		39.1	22.4	58	74	91						
DOUG FIR-S		200.0	114.3		14	29						
DOUG FIR-T		49.2	28.1	62	86	110						
R ALDER-L		200.0	114.3		15	31						
TOTAL		44.1	25.2	141	188	236	101	25	11			
CL	68.1	COEFF		BASAL AREA/ACRE				# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH		5	10	15		
DOUG FIR-L		8.9	5.1	123	130	137						
DOUG FIR-S		200.0	114.3		15	32						
DOUG FIR-T		24.0	13.7	91	105	119						
R ALDER-L		200.0	114.3		10	21						
TOTAL		16.6	9.5	235	260	285	14	4	2			
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		18.0	10.3	17,817	19,859	21,900						
DOUG FIR-S												
DOUG FIR-T		24.4	13.9	11,693	13,588	15,483						
R ALDER-L		200.0	114.3		325	697						

TC PSTATS				PROJECT STATISTICS							PAGE	2
				PROJECT			BIBLECRK				DATE	11/2/2023
TWP	RGE	SC	TRACT	TYPE		ACRES		PLOTS	TREES	CuFt	BdFt	
T3S	R7	34	00U3	00MC		20.00		4	52	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			9.3	5.3	31,977	33,772	35,566	5	1	1		
CL	68.1		COEFF	NET CUFT FT/ACRE					# OF PLOTS REQ.		INF. POP.	
SD:	1.0		VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15		
DOUG FIR-L			15.1	8.6	4,169	4,564	4,959					
DOUG FIR-S												
DOUG FIR-T			22.6	12.9	2,921	3,356	3,790					
R ALDER-L			200.0	114.3		127	272					
TOTAL			7.7	4.4	7,691	8,046	8,401	3	1	0		

TC PSCSTGR

## Species, Sort Grade - Board Foot Volumes (Project)

TT3S RR7W S34 Ty007C

20.00

Project: BIBLECRK

Page 1

Acres 20.00

Date 11/2/2023

Time 12:40:09PM

S So Gr T rt ad Spp				% Net BdFt	Bd. Ft. per Acre Def% Gross Net			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	L	3M		97		19,328	19,328	387		48	38	15		43	20	37	33	10	127	0.88	152.0
DF	L	4M		3		530	530	11		100				100			25	7	35	0.36	15.2
DF Totals				59		19,859	19,859	397		49	37	14		45	19	36	32	9	119	0.85	167.1
DF	T	CU															11	12		0.00	6.4
DF	T	2M		31	1.6	4,332	4,265	85			71	29	4			96	38	13	258	1.62	16.5
DF	T	3M		59	1.1	8,059	7,972	159		100					4	96	39	8	91	0.58	87.9
DF	T	4M		10		1,351	1,351	27		100			29	71			21	6	25	0.31	53.4
DF Totals				40	1.1	13,743	13,588	272		69	22	9	4	7	2	86	32	8	83	0.64	164.2
DF	S	CU															27	8		0.00	21.9
DF Totals																	27	8		0.00	21.9
RA	L	CR		100		325	325	7		100					100		22	7	22	0.39	14.6
RA Totals				1		325	325	7		100					100		22	7	22	0.39	14.6
Totals					0.5	33,927	33,772	675		57	31	12	2	29	13	56	31	8	92	0.70	367.8

TC		Stand Table Summary										Page	
PSTNDSUM												1	
												Date:	
												11/2/2023	

TC		PLOGSTVB		Log Stock Table - MBF																	
TT3S RR7W S34 Ty001C				20.00		Project:		BIBLECRK		Page		1		Date		11/2/2023		Time		12:40:08PM	
				Acres		20.00															
Spp	S T	So Gr rt de	Log Len	Gross MBF	Def %	Net MBF	% Sp	Net Volume by Scaling Diameter in Inches													
								2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+		
DF	L	3M	26	30		30	7.6							11	20						
DF	L	3M	27	5		5	1.2						5								
DF	L	3M	28	75		75	19.0			6		10	16	21	22						
DF	L	3M	30	57		57	14.4			5	15	5	5	6	11	11					
DF	L	3M	32	28		28	7.2			12				5	11						
DF	L	3M	33	12		12	3.0			1		11									
DF	L	3M	34	33		33	8.2			4		11			6	12					
DF	L	3M	35	4		4	1.0			4											
DF	L	3M	36	67		67	17.0			4		53	10								
DF	L	3M	37	16		16	4.1			16											
DF	L	3M	38	37		37	9.4			6		10	21								
DF	L	3M	39	18		18	4.5			7			11								
DF	L	3M	40	3		3	.7			3											
DF	L	4M	24	6		6	1.5				6										
DF	L	4M	25	5		5	1.1			5											
DF		Totals		397		397	58.8			72	21	101	68	42	70	23					
DF	T	2M	20	4		4	1.3							4							
DF	T	2M	40	83	1.6	82	30.1						57		13	11					
DF	T	3M	32	4		4	1.5			4											
DF	T	3M	34	2		2	.8			2											
DF	T	3M	36	17		17	6.4			17											
DF	T	3M	38	3		3	1.1			3											
DF	T	3M	40	134	1.3	133	48.8			29	71	33									
DF	T	4M	12	1		1	.5			1											
DF	T	4M	14	3		3	.9			3											
DF	T	4M	20	4		4	1.5			4											
DF	T	4M	22	6		6	2.1			6											
DF	T	4M	24	6		6	2.2			6											
DF	T	4M	26	2		2	.6			2											
DF	T	4M	28	2		2	.9			2											
DF	T	4M	30	3		3	1.2			3											
DF		Totals		275	1.1	272	40.2			83	71	33	57	4	13	11					
RA	L	CR	35	7		7	100.0			7											
RA		Totals		7		7	1.0			7											
Total		All Species		679		675	100.0			161	92	134	125	46	84	34					

TC PSTATS				PROJECT STATISTICS				PAGE	1				
				PROJECT	BIBLECRK		DATE		11/6/2023				
TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt			
T3S	R7	34	00U4	00MC		57.00	11	133	S	W			
				TREES		ESTIMATED	PERCENT						
				PER PLOT		TOTAL	SAMPLE						
				PLOTS	TREES	TREES	TREES						
TOTAL				11	133	12.1							
CRUISE				11	133	12.1	11,126	1.2					
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				72	93.5	16.0	97	32.7	130.9	18,653	18,653	4,338	4,338
DOUG FIR-S				2	2.8	15.5	60	0.9	3.6				
DOUG FIR-T				57	93.6	14.2	92	27.5	103.6	13,194	13,117	3,239	3,239
R ALDER-L				2	5.3	11.2	75	1.1	3.6	453	453	103	103
TOTAL				133	195.2	15.1	94	62.3	241.8	32,300	32,223	7,679	7,679
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		59.9	7.0	229	247	264							
DOUG FIR-S													
DOUG FIR-T		63.0	8.3	162	177	192							
R ALDER-L		102.4	95.9	6	145	284							
TOTAL		65.3	5.7	200	212	224	170	43	19				
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		57.8	6.8	53	57	61							
DOUG FIR-S													
DOUG FIR-T		64.1	8.5	40	44	48							
R ALDER-L		111.5	104.4		35	71							
TOTAL		63.4	5.5	48	50	53	161	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		34.2	10.8	83	94	104							
DOUG FIR-S		223.0	70.5	1	3	5							
DOUG FIR-T		63.0	19.9	75	94	112							
R ALDER-L		262.0	82.8	1	5	10							
TOTAL		33.6	10.6	174	195	216	50	12	6				
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		8.0	2.5	128	131	134							
DOUG FIR-S		222.5	70.3	1	4	6							
DOUG FIR-T		60.9	19.2	84	104	124							
R ALDER-L		222.5	70.3	1	4	6							
TOTAL		23.2	7.3	224	242	260	24	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-L		13.4	4.2	17,865	18,653	19,441							
DOUG FIR-S													
DOUG FIR-T		60.4	19.1	10,615	13,117	15,618							
R ALDER-L		232.4	73.4	120	453	786							

TC PSTATS				PROJECT STATISTICS					PAGE	2
				PROJECT	BIBLECRK			DATE	11/6/2023	
TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt
T3S	R7	34	00U4	00MC		57.00	11	133	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			22.6	7.1	29,924	32,223	34,521	22	6	2
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			12.2	3.9	4,170	4,338	4,505			
DOUG FIR-S										
DOUG FIR-T			60.2	19.0	2,624	3,239	3,855			
R ALDER-L			243.9	77.0	24	103	182			
TOTAL			24.3	7.7	7,089	7,679	8,270	26	6	3

TC		PSPCSTGR		Species, Sort Grade - Board Foot Volumes (Project)																
<div>TT3S RR7W S34 Ty00MC57.00</div>				Project:		BIBLECRK										Page		1		
				Acres		57.00										Date		11/6/2023		
																Time		3:44:39PM		
S Spp	So T	Gr rt ad	%	Bd. Ft. per Acre			Total Net MBF	Percent of Net Board Foot Volume								Average Log				Logs Per /Acre
			Net BdFt	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	L	3M	98		18,460	18,460	1,052	68	26	6		40	27	33	32	9	96	0.69	193.2	
DF	L	4M	2		193	193	11	100				100			24	7	35	0.36	5.5	
DF Totals			58		18,653	18,653	1,063	69	25	6		41	27	32	32	9	94	0.69	198.7	
DF	T	CU													10	8		0.00	6.7	
DF	T	2M	14		1,950	1,950	111		89	11				100	40	13	238	1.43	8.2	
DF	T	3M	76	.8	9,983	9,905	565	98	2		1	1	3	95	39	8	95	0.60	104.2	
DF	T	4M	10		1,261	1,261	72	100			25	75			23	6	27	0.32	46.9	
DF Totals			41	.6	13,194	13,117	748	84	15	2	3	8	2	86	33	8	79	0.59	166.0	
DF	S	CU													29	8		0.00	4.1	
DF Totals															29	8		0.00	4.1	
RA	L	CR	100		453	453	26	54	46			36		64	29	8	71	0.56	6.4	
RA Totals			1		453	453	26	54	46			36		64	29	8	71	0.56	6.4	
Totals				0.2	32,300	32,223	1,837	75	21	4	1	28	16	55	32	8	86	0.63	375.2	



TC		PSTNDSUM										Stand Table Summary										Page		1	
																						Date:		11/6/2023	
TT3S RR7W S34 Ty00PIC					57.00					Project					BIBLECRK					Time:		3:44:40PM			
										Acres					57.00					Grown Year:					
S Spc	T	Tot			Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	T o t a l s												
		Sample Trees	FF 16'	Av Ht				Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF										
DF L	11	2	87	88	5.510	3.64	11.02	8.8	37.5	2.76	97	413	157	55	24										
DF L	12	5	87	92	11.575	9.09	23.15	10.8	42.0	7.13	250	972	406	143	55										
DF L	13	3	87	90	5.918	5.45	11.84	13.6	55.0	4.58	161	651	261	92	37										
DF L	14	6	87	91	10.205	10.91	20.41	16.5	73.3	9.59	337	1,497	547	192	85										
DF L	15	12	87	95	17.779	21.82	35.56	19.5	87.9	19.77	694	3,126	1,127	395	178										
DF L	16	9	87	102	11.720	16.36	23.44	24.5	107.2	16.34	573	2,513	931	327	143										
DF L	17	7	87	104	8.074	12.73	17.30	25.8	109.3	12.74	447	1,892	726	255	108										
DF L	18	8	86	101	8.231	14.55	17.49	29.5	118.2	14.73	517	2,068	840	295	118										
DF L	19	4	86	106	3.694	7.27	10.16	25.9	113.6	7.49	263	1,154	427	150	66										
DF L	20	6	86	107	5.000	10.91	11.67	28.2	125.0	9.37	329	1,458	534	187	83										
DF L	21	2	84	104	1.512	3.64	3.78	34.9	136.0	3.76	132	514	214	75	29										
DF L	22	2	85	107	1.378	3.64	4.13	32.7	148.3	3.85	135	613	220	77	35										
DF L	24	2	85	106	1.157	3.64	3.47	37.8	170.0	3.75	131	590	213	75	34										
DF L	26	1	82	126	.493	1.82	1.48	50.5	216.7	2.13	75	321	121	43	18										
DF L	27	2	80	111	.915	3.64	2.74	47.9	205.0	3.75	131	562	214	75	32										
DF L	30	1	83	107	.370	1.82	1.11	59.6	276.7	1.89	66	307	108	38	18										
DF L	Totals	72	87	97	93.530	130.91	198.75	21.8	93.9	123.62	4,338	18,653	7,047	2,472	1,063										
DF T	9	1	87	91	4.116	1.82	4.12	9.8	60.0	1.15	40	247	66	23	14										
DF T	10	2	88	84	6.667	3.64	6.67	12.8	60.0	2.43	85	400	138	49	23										
DF T	11	3	87	82	8.265	5.45	8.27	15.3	63.3	3.61	127	523	206	72	30										
DF T	12	7	87	85	16.205	12.73	23.15	13.6	52.0	8.95	314	1,204	510	179	69										
DF T	13	3	87	93	5.918	5.45	11.84	14.0	53.3	4.72	165	631	269	94	36										
DF T	14	9	87	90	15.307	16.36	30.61	16.4	69.4	14.32	503	2,126	816	286	121										
DF T	15	8	87	96	11.853	14.55	23.71	19.8	78.1	13.36	469	1,852	762	267	106										
DF T	16	7	87	96	9.115	12.73	18.23	23.1	92.9	11.99	421	1,693	683	240	96										
DF T	17	6	87	103	6.921	10.91	13.84	28.3	118.3	11.18	392	1,638	637	224	93										
DF T	18	4	88	106	4.116	7.27	8.23	33.3	130.0	7.81	274	1,070	445	156	61										
DF T	19	3	86	105	2.770	5.45	5.54	35.0	130.0	5.53	194	720	315	111	41										
DF T	22	2	84	108	1.378	3.64	2.76	41.2	157.5	3.23	113	434	184	65	25										
DF T	24	1	85	113	.579	1.82	1.16	61.2	260.0	2.02	71	301	115	40	17										
DF T	29	1	82	112	.396	1.82	1.19	59.5	233.3	2.02	71	277	115	40	16										
DF T	Totals	57	87	92	93.605	103.64	159.30	20.3	82.3	92.31	3,239	13,117	5,262	1,846	748										
RA L	9	1	89	67	4.116	1.82	4.12	7.4	40.0	.84	30	165	48	17	9										
RA L	17	1	86	103	1.153	1.82	2.31	31.3	125.0	1.98	72	288	113	41	16										
RA L	Totals	2	88	75	5.269	3.64	6.42	16.0	70.5	2.82	103	453	161	58	26										
DF S	15	1	84	55	1.482	1.82																			
DF S	16	1	85	65	1.302	1.82																			
DF S	Totals	2	84	60	2.784	3.64																			
Totals		133	87	94	195.188	241.82	364.47	21.1	88.4	218.76	7,679	32,223	12,469	4,377	1,837										

TC		PLOGSTVB		Log Stock Table - MBF															
TT3S RR7W S34 Ty001C				57.00		Project:		BIBLECRK								Page		1	
						Acres		57.00								Date		11/6/2023	
																Time		3:44:39PM	
Spp	St	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	L	3M	25	14		14	1.4			14									
DF	L	3M	26	58		58	5.4		9				39	10					
DF	L	3M	27	31		31	2.9				5	5	10	10					
DF	L	3M	28	196		196	18.4		23	36	51	25	31	31					
DF	L	3M	29	26		26	2.5		9	7	6	5							
DF	L	3M	30	98		98	9.2		30	15	15	11	6	10	11				
DF	L	3M	31	21		21	2.0				21								
DF	L	3M	32	105		105	9.9		39	9	52	5							
DF	L	3M	33	15		15	1.4		4		11								
DF	L	3M	34	118		118	11.1		13		88	6		11					
DF	L	3M	35	25		25	2.4		14		12								
DF	L	3M	36	100		100	9.4		23		57	21							
DF	L	3M	37	97		97	9.1		20		34	42							
DF	L	3M	38	103		103	9.7		49		22	32							
DF	L	3M	39	23		23	2.2				23								
DF	L	3M	40	21		21	2.0		11			10							
DF	L	4M	23	6		6	.6			6									
DF	L	4M	24	5		5	.4			5									
DF		Totals		1,063		1,063	57.9			247	86	398	162	86	73	11			
DF	T	2M	40	111		111	14.9					75	11	25					
DF	T	3M	16	7		7	.9				7								
DF	T	3M	30	8		8	1.1			8									
DF	T	3M	32	5		5	.7		5										
DF	T	3M	34	11		11	1.4		11										
DF	T	3M	36	25		25	3.4		25										
DF	T	3M	38	4		4	.5		4										
DF	T	3M	40	510		505	67.6		132	186	176	12							
DF	T	4M	12	1		1	.2		1										
DF	T	4M	14	0		0	.1		0										
DF	T	4M	16	5		5	.6		5										
DF	T	4M	18	5		5	.7		5										
DF	T	4M	20	6		6	.9		6										
DF	T	4M	22	11		11	1.5		11										
DF	T	4M	24	13		13	1.8		13										
DF	T	4M	26	8		8	1.1		8										
DF	T	4M	28	12		12	1.7		12										

TC PLOGSTVB

## Log Stock Table - MBF

TT3S RR7W S34 Ty007C 57.00

Project: BIBLECRK  
Acres 57.00Page 2  
Date 11/6/2023  
Time 3:44:39PM

Spp	S T	So Gr rt de	Log Len	Gross MBF	Def %	Net MBF	% Spe	Net Volume by Scaling Diameter in Inches											
								2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
DF	T	4M	30	10		10	1.3			10									
DF		Totals		752		748	40.7			248	194	183	86	11	25				
RA	L	CR	24	9		9	36.3			9									
RA	L	CR	36	12		12	45.8					12							
RA	L	CR	38	5		5	17.8			5									
RA		Totals		26		26	1.4			14		12							
Total		All Species		1,841		1,837	100.0			509	280	581	260	97	98	11			

TC PSTATS		PROJECT STATISTICS							PAGE	1		
		PROJECT			BIBLECRK		DATE			11/7/2023		
TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt		
T3S	R7	34	00U1	00MC	THR	237.00	44	568	S	W		
T3S	R7W	34	00U4	00MC								
			PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES					
TOTAL			44	568	12.9							
CRUISE			44	568	12.9	63,735	.9					
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-L			276	98.2	15.3	99	32.0	124.9	18,882	18,882	4,269	4,269
DOUG FIR-S			22	17.0	10.7	64	3.2	10.6				
DOUG FIR-T			258	147.0	12.2	90	34.0	118.4	14,676	14,542	3,422	3,422
R ALDER-L			7	4.4	11.3	74	0.9	3.0	281	281	70	70
WHEMLOCK-L			3	1.5	13.7	98	0.4	1.5	261	261	56	56
WR CEDAR-L			1	.5	14.0	68	0.1	.5	40	40	12	12
GR FIR-L			1	.3	17.0	98	0.1	.4	67	67	16	16
TOTAL			568	268.9	13.3	92	71.1	259.5	34,208	34,074	7,844	7,844
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		94.0	5.7	239	253	267						
DOUG FIR-S												
DOUG FIR-T		104.0	6.5	133	143	152						
R ALDER-L		95.5	38.8	51	83	115						
WHEMLOCK-L		18.2	12.6	154	177	199						
WR CEDAR-L												
GR FIR-L												
TOTAL		107.7	4.5	182	190	199	463	116	51			
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		81.0	4.9	54	56	59						
DOUG FIR-S												
DOUG FIR-T		103.0	6.4	32	34	36						
R ALDER-L		92.4	37.6	14	22	30						
WHEMLOCK-L		9.1	6.3	35	37	40						
WR CEDAR-L												
GR FIR-L												
TOTAL		96.8	4.1	42	44	45	374	94	42			
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		31.7	4.8	94	98	103						
DOUG FIR-S		206.4	31.1	12	17	22						
DOUG FIR-T		66.6	10.0	132	147	162						
R ALDER-L		323.8	48.8	2	4	7						
WHEMLOCK-L		374.1	56.3	1	1	2						
WR CEDAR-L		663.3	99.9	0	1	1						
GR FIR-L		663.3	99.9	0	0	1						
TOTAL		48.4	7.3	249	269	289	94	23	10			
CL	68.1	COEFF		BASAL AREA/ACRE			# OF PLOTS REQ.		INF. POP.			
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15			

**PROJECT STATISTICS**  
**PROJECT BIBLECRK**

TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
T3S	R7	34	00U1	00MC	THR	237.00	44	568	S W
T3S	R7W	34	00U4	00MC					
			DOUG FIR-L	10.3	1.6	123	125	127	
			DOUG FIR-S	188.9	28.4	8	11	14	
			DOUG FIR-T	46.5	7.0	110	118	127	
			R ALDER-L	300.5	45.3	2	3	4	
			WHEMLOCK-L	375.7	56.6	1	2	2	
			WR CEDAR-L	663.3	99.9	0	1	1	
			GR FIR-L	663.3	99.9	0	0	1	
			<b>TOTAL</b>	<b>25.3</b>	<b>3.8</b>	<b>250</b>	<b>259</b>	<b>269</b>	<b>26 6 3</b>
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	18.3	2.8	18,360	18,882	19,404	
			DOUG FIR-S						
			DOUG FIR-T	49.0	7.4	13,470	14,542	15,615	
			R ALDER-L	334.3	50.4	140	281	423	
			WHEMLOCK-L	378.1	56.9	113	261	410	
			WR CEDAR-L	663.3	99.9	0	40	80	
			GR FIR-L	663.3	99.9	0	67	133	
			<b>TOTAL</b>	<b>26.3</b>	<b>4.0</b>	<b>32,725</b>	<b>34,074</b>	<b>35,423</b>	<b>28 7 3</b>
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	15.2	2.3	4,171	4,269	4,366	
			DOUG FIR-S						
			DOUG FIR-T	46.6	7.0	3,181	3,422	3,662	
			R ALDER-L	304.8	45.9	38	70	102	
			WHEMLOCK-L	375.4	56.5	24	56	87	
			WR CEDAR-L	663.3	99.9	0	12	25	
			GR FIR-L	663.3	99.9	0	16	32	
			<b>TOTAL</b>	<b>23.9</b>	<b>3.6</b>	<b>7,562</b>	<b>7,844</b>	<b>8,127</b>	<b>23 6 3</b>

TC		PSPCSTGR		Species, Sort Grade - Board Foot Volumes (Project)																	
<div>TT3S RR7W S34 Ty00PIC THRU TT3S RR7W S34 Ty00PIC</div>				Project: BIBLECRK														Page 1			
				Acres 237.00														Date 11/7/2023			
																		Time 11:12:30AM			
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		3M	99		18,744	18,744	4,442		75	19	6		32	34	35	33	8	93	0.64	200.7
DF	L		4M	1		138	138	33		100				100			24	7	35	0.36	3.9
DF Totals				55		18,882	18,882	4,475		76	19	6		32	34	34	33	8	92	0.64	204.6
DF	T		CU														16	8		0.00	4.4
DF	T		2M	10	1.9	1,504	1,476	350			73	27	1		3	96	39	14	273	1.62	5.4
DF	T		3M	78	.9	11,509	11,402	2,702		100	0		1	0	5	94	39	7	79	0.48	145.0
DF	T		4M	12		1,664	1,664	394		100			41	59			20	6	25	0.28	66.9
DF Totals				43	.9	14,676	14,542	3,447		90	8	3	5	7	4	83	33	7	66	0.47	221.8
DF	S		CU														26	7		0.00	20.3
DF Totals																	26	7		0.00	20.3
RA	L		CR	100		281	281	67		82	18			35	10	55	28	8	53	0.48	5.3
RA Totals				1		281	281	67		82	18			35	10	55	28	8	53	0.48	5.3
WH	L		3M	100		261	261	62		100				27	24	49	34	8	88	0.55	3.0
WH Totals				1		261	261	62		100				27	24	49	34	8	88	0.55	3.0
GF	L		3M	100		67	67	16		25	75					100	37	9	120	0.79	.6
GF Totals				0		67	67	16		25	75					100	37	9	120	0.79	.6
RC	L		3M	100		40	40	10		100				100			22	8	40	0.57	1.0
RC Totals				0		40	40	10		100				100			22	8	40	0.57	1.0
Totals					0.4	34,208	34,074	8,075		82	14	4	2	21	21	56	32	8	75	0.53	456.5

TC		PSTNDSUM		Stand Table Summary										Page		1	
														Date:		11/7/2023	
TT3S RR7W S34 Ty00MC THRU TT3S RR7W S34 Ty00MC				Project		BIBLECRK						Time:		11:12:31AM			
				Acres		237.00						Grown Year:					
S SpC	T	Sample		FF 16'	Tot Av Ht	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	T o t a l s			
		DBH	Trees						Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF	
DF L		9	2	88	92	2.209	.98	2.21	10.1	60.0	.64	22	133	151	53	31	
DF L		10	2	88	80	1.606	.88	1.61	13.1	70.0	.60	21	112	142	50	27	
DF L		11	4	87	87	2.628	1.73	5.26	8.7	36.3	1.31	46	191	310	109	45	
DF L		12	19	88	93	11.228	8.82	22.46	11.0	44.3	7.06	248	995	1,673	587	236	
DF L		13	27	88	95	13.661	12.59	27.32	14.3	61.7	11.17	392	1,686	2,646	928	400	
DF L		14	31	88	96	13.446	14.37	26.89	17.6	81.4	13.48	473	2,190	3,195	1,121	519	
DF L		15	54	88	100	19.824	24.33	40.36	20.2	91.3	23.22	815	3,685	5,504	1,931	873	
DF L		16	37	88	104	12.057	16.84	25.68	23.6	103.9	17.27	606	2,669	4,094	1,436	633	
DF L		17	26	88	105	7.508	11.83	16.68	25.5	110.4	12.14	426	1,842	2,876	1,009	436	
DF L		18	21	88	106	5.306	9.38	12.65	27.3	114.8	9.84	345	1,452	2,333	818	344	
DF L		19	9	87	106	2.051	4.04	5.21	28.6	123.6	4.26	149	644	1,009	354	153	
DF L		20	12	87	106	2.424	5.29	5.89	30.2	132.0	5.06	178	778	1,200	421	184	
DF L		21	7	86	109	1.261	3.03	3.24	34.8	145.6	3.21	113	471	761	267	112	
DF L		22	6	86	103	.977	2.58	2.76	33.4	147.7	2.63	92	408	623	219	97	
DF L		23	1	85	102	.152	.44	.46	33.0	140.0	.43	15	64	101	36	15	
DF L		24	4	86	106	.547	1.72	1.64	38.8	177.4	1.82	64	291	431	151	69	
DF L		25	2	87	137	.257	.88	.77	52.8	253.3	1.16	41	195	275	96	46	
DF L		26	1	82	126	.119	.44	.36	50.5	216.7	.51	18	77	121	43	18	
DF L		27	3	83	120	.330	1.31	.99	54.0	246.7	1.52	53	244	361	127	58	
DF L		28	1	83	116	.099	.42	.30	56.5	253.3	.48	17	75	113	40	18	
DF L		30	4	84	126	.354	1.74	1.15	65.4	317.3	2.14	75	365	508	178	86	
DF L		32	1	86	142	.078	.44	.31	66.3	352.5	.59	21	111	140	49	26	
DF L		33	1	82	119	.071	.42	.21	80.5	366.7	.49	17	78	116	41	19	
DF L		42	1	86	149	.046	.44	.18	121.0	695.0	.63	22	127	149	52	30	
DF L		Totals	276	88	99	98.238	124.92	204.59	20.9	92.3	121.66	4,269	18,882	28,832	10,117	4,475	
DF T		8	6	87	82	8.674	3.03	8.67	5.3	27.1	1.31	46	235	310	109	56	
DF T		9	12	87	87	13.480	5.96	13.48	9.5	53.4	3.67	129	720	869	305	171	
DF T		10	34	87	84	29.289	15.97	29.29	12.6	59.7	10.51	369	1,749	2,492	874	415	
DF T		11	31	88	88	21.783	14.38	25.77	13.7	58.0	10.02	352	1,494	2,376	834	354	
DF T		12	44	88	91	26.146	20.53	46.46	12.5	51.2	16.50	579	2,378	3,911	1,372	564	
DF T		13	31	88	93	15.761	14.53	31.06	14.1	56.6	12.50	439	1,759	2,964	1,040	417	
DF T		14	35	88	95	14.570	15.58	27.50	18.0	75.4	14.08	494	2,074	3,337	1,171	492	
DF T		15	19	88	99	6.806	8.35	13.25	21.0	87.7	7.92	278	1,163	1,878	659	276	
DF T		16	10	87	99	3.133	4.38	6.27	23.3	94.5	4.16	146	592	986	346	140	
DF T		17	8	87	104	2.220	3.50	4.44	28.7	118.1	3.63	127	525	860	302	124	
DF T		18	8	88	106	1.963	3.47	4.17	30.2	119.5	3.60	126	499	852	299	118	
DF T		19	6	87	102	1.368	2.69	2.74	34.7	128.0	2.70	95	350	641	225	83	
DF T		20	2	86	107	.387	.84	.77	39.0	150.0	.86	30	116	204	72	28	
DF T		22	2	84	108	.331	.87	.66	41.2	157.5	.78	27	104	184	65	25	
DF T		23	1	85	110	.152	.44	.30	56.9	225.0	.49	17	68	117	41	16	
DF T		24	2	85	106	.279	.88	.56	59.6	230.0	.95	33	128	224	79	30	
DF T		26	1	84	118	.119	.44	.36	51.2	210.0	.52	18	75	123	43	18	
DF T		27	1	88	106	.106	.42	.21	68.7	335.0	.42	15	71	99	35	17	
DF T		28	2	86	148	.205	.88	.61	71.8	335.0	1.26	44	206	298	105	49	
DF T		29	1	82	112	.095	.44	.29	59.5	233.3	.49	17	67	115	40	16	
DF T		30	1	86	154	.089	.44	.27	85.7	390.0	.65	23	104	155	54	25	
DF T		35	1	81	118	.063	.42	.19	92.6	340.0	.50	18	64	118	42	15	
DF T		Totals	258	88	90	147.020	118.43	217.33	15.7	66.9	97.52	3,422	14,542	23,111	8,109	3,447	
RAL		9	1	89	67	.990	.44	.99	7.4	40.0	.20	7	40	48	17	9	
RAL		10	2	83	75	1.577	.86	1.58	6.7	35.7	.29	11	56	69	25	13	
RAL		11	1	92	80	.664	.44	1.33	9.1	45.0	.33	12	60	79	29	14	
RAL		13	1	74	66	.458	.42	.46	23.4	60.0	.29	11	27	70	25	7	

TC		PSTNDSUM											Stand Table Summary											Page		2	
																								Date:		11/7/2023	
TT3S RR7W S34 Ty007C THRU TT3S RR7W S34 Ty007C					Project					BIBLECRK					Time:		11:12:31AM										
					Acres					237.00					Grown Year:												
S Spec	T	DBH	Sample Trees	FF 16'	Av Ht	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals													
									Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF											
RA	L	14	1	74	70	.410	.44	.41	29.9	70.0	.34	12	29	80	29	7											
RA	L	17	1	86	103	.277	.44	.55	31.3	125.0	.48	17	69	113	41	16											
RA	L	Totals	7	84	74	4.375	3.03	5.32	13.2	52.9	1.93	70	281	458	166	67											
WH	L	13	1	93	104	.475	.44	.95	18.3	95.0	.56	17	90	132	41	21											
WH	L	14	2	89	95	1.006	1.08	2.01	18.9	85.0	1.22	38	171	289	90	41											
WH	L	Totals	3	90	98	1.482	1.51	2.96	18.7	88.2	1.78	56	261	421	132	62											
GF	L	17	1	88	98	.278	.44	.56	28.7	120.0	.35	16	67	83	38	16											
GF	L	Totals	1	88	98	.278	.44	.56	28.7	120.0	.35	16	67	83	38	16											
RC	L	14	1	76	68	.503	.54	1.01	12.3	40.0	.29	12	40	69	29	10											
RC	L	Totals	1	76	68	.503	.54	1.01	12.3	40.0	.29	12	40	69	29	10											
DFS	S	8	3	86	70	4.051	1.41																				
DFS	S	9	4	82	57	4.871	2.15																				
DFS	S	10	3	85	64	2.776	1.51																				
DFS	S	11	2	87	74	1.479	.98																				
DFS	S	12	1	87	71	.685	.54																				
DFS	S	13	1	84	61	.458	.42																				
DFS	S	14	2	86	84	.898	.96																				
DFS	S	15	1	84	55	.356	.44																				
DFS	S	16	3	83	57	.929	1.30																				
DFS	S	17	1	88	66	.278	.44																				
DFS	S	18	1	57	25	.248	.44																				
DFS	S	Totals	22	84	64	17.028	10.59																				
Totals			568	87	92	268.924	259.45	431.77	18.2	78.9	223.52	7,844	34,074	52,975	18,591	8,075											





TC		PLOGSTVB		Log Stock Table - MBF																
TT3S RR7W S34 Ty007C THRU TT3S RR7W S34 Ty007C				Project:		BIBLECRK		Page		2										
				Acres		237.00		Date		11/7/2023										
								Time		11:12:29AM										
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	4M	20	47		47	1.4			40	6									
DF	T	4M	22	57		57	1.6			57										
DF	T	4M	24	111		111	3.2			111										
DF	T	4M	26	10		10	.3			10										
DF	T	4M	28	24		24	.7			24										
DF	T	4M	30	31		31	.9			31										
DF		Totals		3,478		3,447	42.7			1771	969	346	191	54	74	42				
RA	L	CR	21	8		8	11.8				8									
RA	L	CR	22	6		6	9.4			6										
RA	L	CR	24	9		9	14.1			9										
RA	L	CR	35	7		7	9.8			7										
RA	L	CR	36	12		12	17.8					12								
RA	L	CR	37	13		13	20.0			13										
RA	L	CR	38	5		5	6.9			5										
RA	L	CR	40	7		7	10.2			7										
RA		Totals		67		67	.8			47	8		12							
WH	L	3M	29	12		12	19.3					12								
WH	L	3M	30	5		5	7.7			5										
WH	L	3M	35	15		15	23.6					15								
WH	L	3M	36	7		7	10.9			7										
WH	L	3M	37	17		17	27.0					17								
WH	L	3M	38	7		7	11.6			7										
WH		Totals		62		62	.8			19		43								
GF	L	3M	36	12		12	75.0					12								
GF	L	3M	37	4		4	25.0			4										
GF		Totals		16		16	.2			4		12								
RC	L	3M	21	6		6	62.5				6									
RC	L	3M	22	4		4	37.5			4										
RC		Totals		10		10	.1			4	6									
Total		All Species		8,107		8,075	100.0			2986	1485	2127	771	270	276	135	10	15		

**Volume Summary**  
(Shown in MBF)  
**Bible Creek**  
**FG-341-2024-W00952-01**  
**November 2023**

**UNIT 1: PC-M (109 ACRES)**

SPECIES		2 SAW	3 SAW	4 SAW	TOTAL
Douglas-fir	Cruise Volume	141	1,269	170	1,580
	Hidden D&B (2%)	(3)	(25)	(4)	(32)
	<b>NET TOTAL</b>	138	1,244	166	1,548
	% of Total	9	80	11	

**UNIT 2: PC-M (51 ACRES)**

SPECIES		2 SAW	3 SAW	4 SAW	TOTAL
Douglas-fir	Cruise Volume	12	709	125	846
	Hidden D&B (2%)	(0)	(14)	(3)	(17)
	<b>NET TOTAL</b>	12	695	122	829
	% of Total	1	84	15	

**UNIT 3: PC-M (20 ACRES)**

SPECIES		2 SAW	3 SAW	4 SAW	TOTAL
Douglas-fir	Cruise Volume	85	159	27	271
	Hidden D&B (2%)	(2)	(3)	(0)	(5)
	<b>NET TOTAL</b>	83	156	27	266
	% of Total	31	59	10	

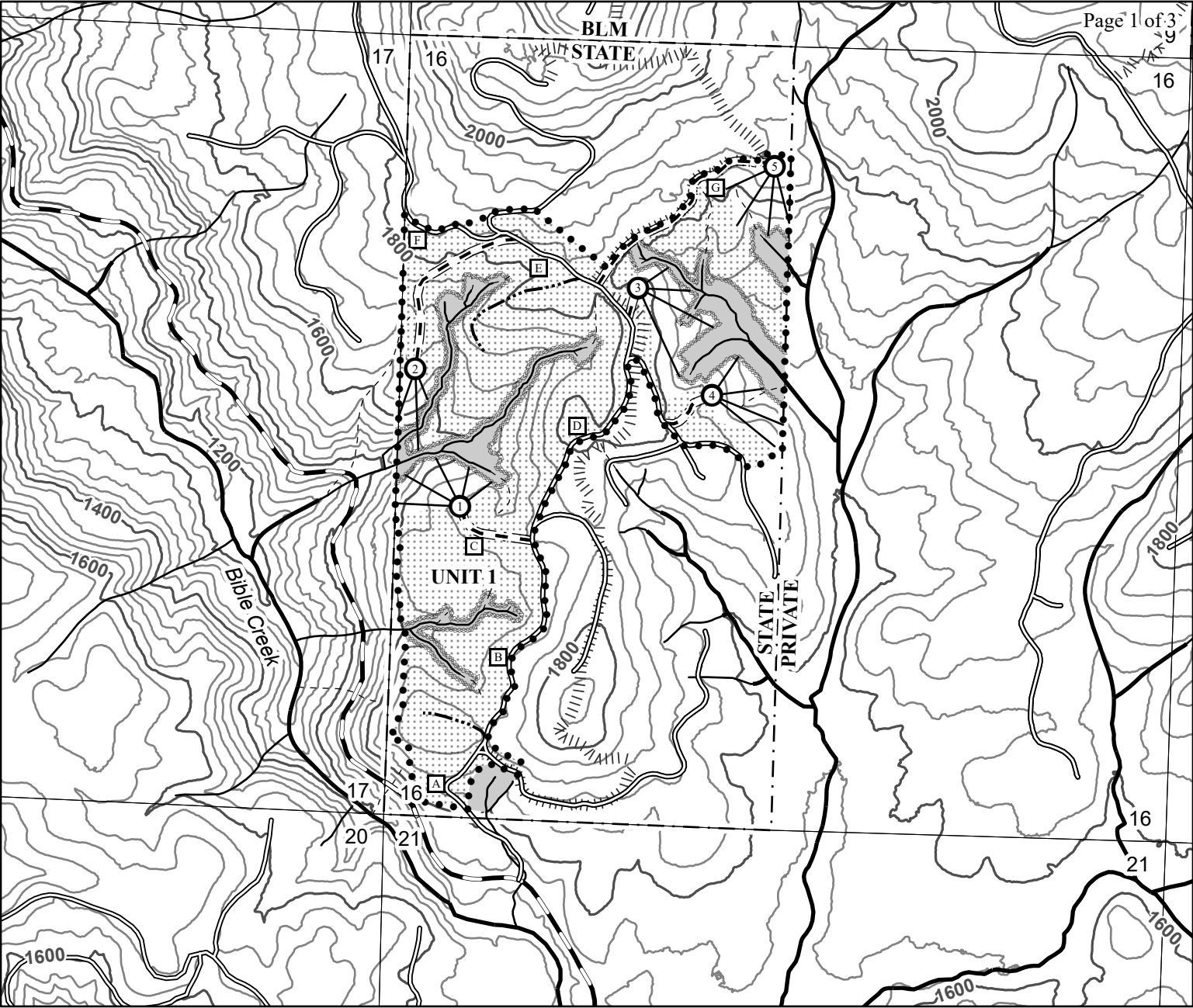
**UNIT 4: PC-M (57 ACRES)**

SPECIES		2 SAW	3 SAW	4 SAW	TOTAL
Douglas-fir	Cruise Volume	111	565	72	748
	Hidden D&B (2%)	(2)	(11)	(2)	(15)
	<b>NET TOTAL</b>	109	554	70	733
	% of Total	15	76	9	

**UNIT 5: R/W (5 ACRES)**

SPECIES		2 SAW	3 SAW	4 SAW	TOTAL
Douglas-fir	Cruise Volume	17	133	20	170
	Hidden D&B (2%)	(0)	(3)	(0)	(3)
	<b>NET TOTAL</b>	17	130	20	167
	% of Total	10	78	12	

SALE TOTAL					
SPECIES		2 SAW	3 SAW	4 SAW	TOTAL
Douglas-fir		359	2,779	405	3,543
Total		359	2,779	405	3,543



**Legend**

- • • Timber Sale Boundary
- - - - - Posted Stream Buffer Boundary
- - - - - Right-of-Way Boundary
- - - - - ODF Ownership Boundary
- Paved Road
- Surfaced Road
- - - Non-Project Road
- - - New Road Construction
- Cable Yarding Area
- • • Tractor Yarding Area
- Cable Landing
- Tractor Landing
- ||||| Recreation Trail
- Type-F Stream
- Type-N Stream - Perennial
- - - Type-N Stream - Seasonal
- Stream Buffer
- Section Lines
- 40 Foot Contour Band
- 200 Foot Contour Band

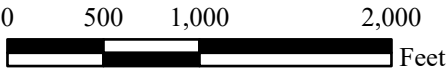
**LOGGING PLAN**

FOR TIMBER SALE CONTRACT #FG-341-2024-W00952-01  
BIBLE CREEK  
PORTIONS OF SECTION 34, T3S, R7W,  
PORTIONS OF SECTIONS 10 & 16, T4S, R7W, W.M.  
TILLAMOOK COUNTY, OREGON

Forest Grove District GIS  
November 2023

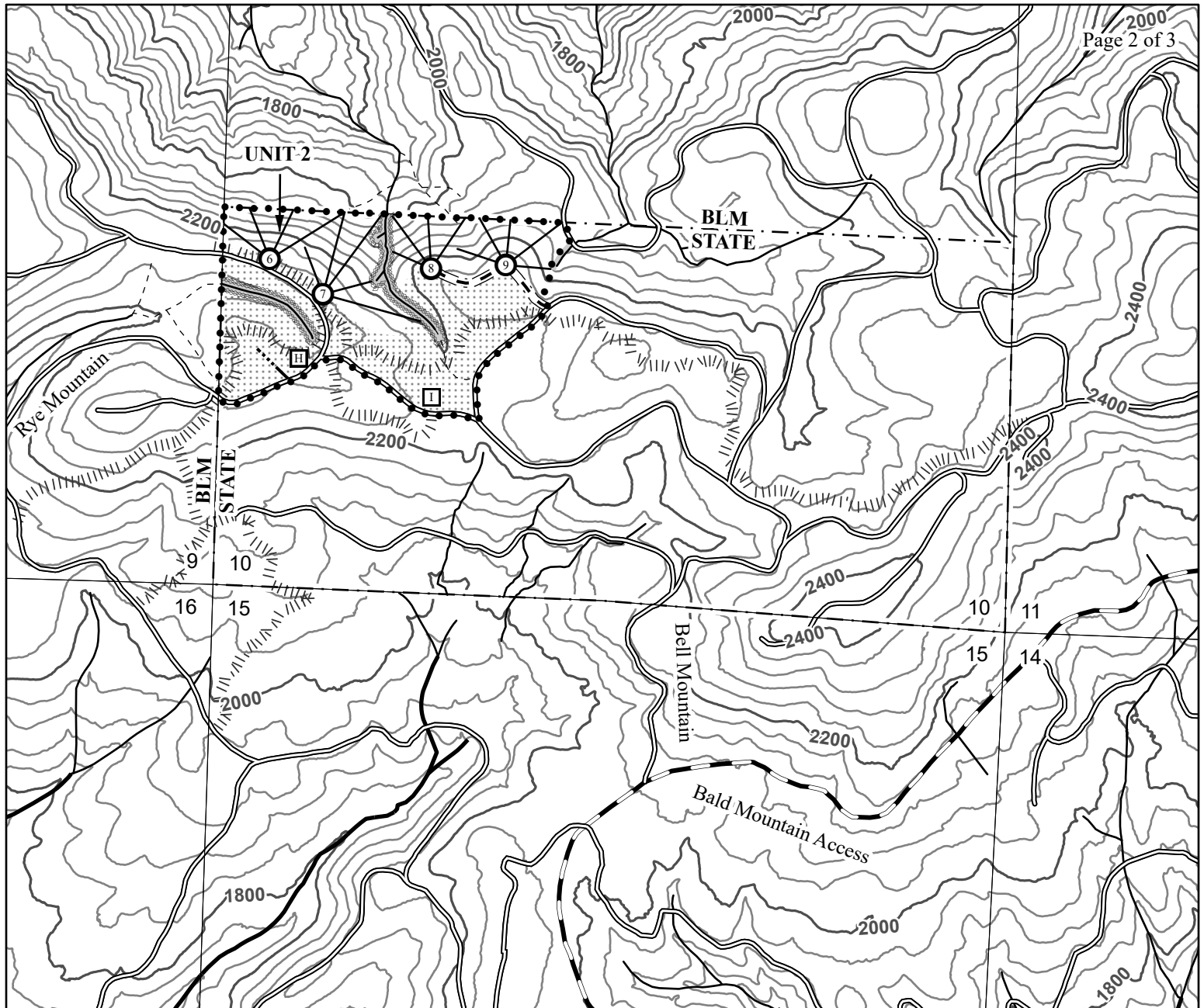
This product is for informational use and may not be  
suitable for legal, engineering, or surveying purposes.

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



**APROXIMATE NET ACRES**  
**TRACTOR CABLE**

	TRACTOR	CABLE
UNIT 1	89	20
UNIT 2	29	22
UNIT 3	20	0
UNIT 4	57	0
UNIT 5 (R/W)	5	0
TOTAL	200	42



Legend

- • • Timber Sale Boundary
- Posted Stream Buffer Boundary
- Right-of-Way Boundary
- - - ODF Ownership Boundary
- Paved Road
- Surfaced Road
- Non-Project Road
- - - New Road Construction
- Cable Yarding Area
- • • Tractor Yarding Area
- Cable Landing
- Tractor Landing
- ||||| Recreation Trail
- Type-F Stream
- Type-N Stream - Perennial
- - - Type-N Stream - Seasonal
- Stream Buffer
- Section Lines
- 40 Foot Contour Band
- 200 Foot Contour Band

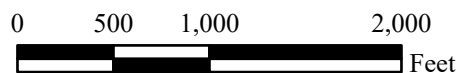
LOGGING PLAN

FOR TIMBER SALE CONTRACT #FG-341-2024-W00952-01  
BIBLE CREEK  
PORTIONS OF SECTION 34, T3S, R7W,  
PORTIONS OF SECTIONS 10 & 16, T4S, R7W, W.M.  
TILLAMOOK COUNTY, OREGON

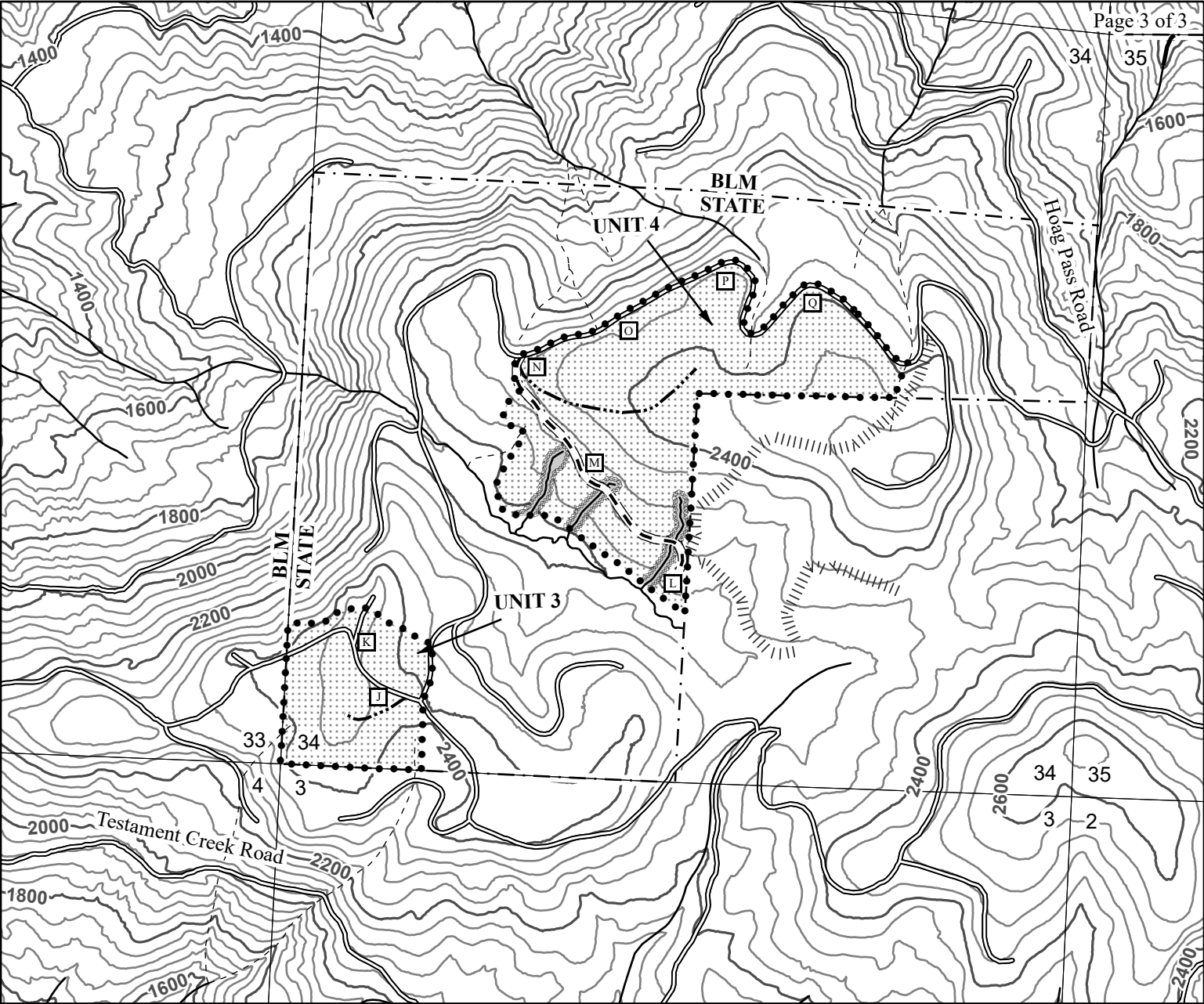
Forest Grove District GIS  
November 2023

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

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



	APROXIMATE NET ACRES	
	TRACTOR	CABLE
UNIT 1	89	20
UNIT 2	29	22
UNIT 3	20	0
UNIT 4	57	0
UNIT 5 (R/W)	5	0
TOTAL	200	42



Legend

- ● ● Timber Sale Boundary
- ▤ Posted Stream Buffer Boundary
- Right-of-Way Boundary
- ┌─┐ ODF Ownership Boundary
- Surfaced Road
- Non-Project Road
- - - New Road Construction
- └─┘ Cable Yarding Area
- ▤ Tractor Yarding Area
- Cable Landing
- Tractor Landing
- ||||| Recreation Trail
- Type-F Stream
- Type-N Stream - Perennial
- - - Type-N Stream - Seasonal
- ▤ Stream Buffer
- Section Lines
- 40 Foot Contour Band
- 200 Foot Contour Band

LOGGING PLAN

FOR TIMBER SALE CONTRACT #FG-341-2024-W00952-01  
BIBLE CREEK  
PORTIONS OF SECTION 34, T3S, R7W,  
PORTIONS OF SECTIONS 10 & 16, T4S, R7W, W.M.  
TILLAMOOK COUNTY, OREGON

Forest Grove District GIS  
November 2023

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

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



APROXIMATE NET ACRES  
TRACTOR CABLE

	TRACTOR	CABLE
UNIT 1	89	20
UNIT 2	29	22
UNIT 3	20	0
UNIT 4	57	0
UNIT 5 (R/W)	5	0
TOTAL	200	42