"STEWARDSHIP IN FORESTRY"

# Timber Sale Appraisal
# Bon Voyage
# Sale WO-341-2025-W01169-01

**District: West Oregon**

**Date: December 18, 2024**

## Cost Summary

| | Conifer | Hardwood | Total |
|---|---|---|---|
| **Gross Timber Sale Value** | $1,134,537.84 | $911.88 | $1,135,449.72 |
| | | **Project Work:** | ($57,058.00) |
| | | **Advertised Value:** | $1,078,391.72 |

"STEWARDSHIP IN FORESTRY"

# Timber Sale Appraisal
# Bon Voyage
# Sale WO-341-2025-W01169-01

**District: West Oregon** **Date: December 18, 2024**

## Timber Description

**Location:** T10S, R07W, Portions of Sections 15 and 22

**Stand Stocking:** 80%

| Specie Name | AvgDBH | Amortization (%) | Recovery (%) |
|---|---|---|---|
| Douglas - Fir | 22 | 0 | 98 |
| Alder (Red) | 15 | 0 | 96 |

| Volume by Grade | 2S | 3S & 4S 6"-11" | Camprun | Total |
|---|---|---|---|---|
| **Douglas - Fir** | 2,121 | 633 | 0 | 2,754 |
| **Alder (Red)** | 0 | 0 | 6 | 6 |
| **Total** | 2,121 | 633 | 6 | 2,760 |

**Comments:** Pond Values Used: Local Pond Values, October 2024

Western Hemlock and Other Conifers Stumpage Price = Pond Value minus Logging Cost:
$216.75/MBF = $521/MBF - $304.25/MBF

Western redcedar and Other Cedars Stumpage Price = Pond Value minus Logging Cost:
$750.75 MBF = $1205/MBF - ($304.25/MBF + $150/MBF(Extra Haul Cost))

Big leaf maple and Other Hardwoods Stumpage Price = Hardwood Pulp price using a conversion factor of 10 ton/MBF: = $30.00/MBF

PULP (Conifer and Hardwood Price) = $3.00/TON

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

Other Costs (No Profit & Risk added):
Equipment Cleaning (Invasive Species): $2,000
Landing Slash Piling and sorting out firewood: 3 Landings @ $180/Landing = $540
Waterbar dirt roads: 30 stations @ $16.95/Station = $508.50
TOTAL Other Costs (No Profit & Risk added) = $3,048.5

ROAD MAINTENANCE
Move-in:(Roller, Grader) $1,900
Final Road Maintenance: $26,504.07
TOTAL Road Maintenance: $28,404.07

SLASH DISPOSAL
Move-In: $1,700
Project Work: @ $170/hr = $12,240
Total Slash Disposal = $13,940

"STEWARDSHIP IN FORESTRY"

# Timber Sale Appraisal
# Bon Voyage
# Sale WO-341-2025-W01169-01

**District: West Oregon** **Date: December 18, 2024**

## Logging Conditions

**Combination#: 1**

| | |
|---|---|
| Douglas - Fir | 46.00% |
| Alder (Red) | 46.00% |

**Logging System:** Shovel **Process:** Feller Buncher

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

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

**loads / day:** 22 **bd. ft / load:** 4800

**cost / mbf:** $94.70

**machines:** Feller Buncher w/ Delimber

---

**Combination#: 2**

| | |
|---|---|
| Douglas - Fir | 54.00% |
| Alder (Red) | 54.00% |

**Logging System:** Cable: Medium Tower >40 - <70 **Process:** Manual Falling/Delimbing

**yarding distance:** Medium (800 ft) **downhill yarding:** No

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

**loads / day:** 12 **bd. ft / load:** 4700

**cost / mbf:** $141.45

**machines:** Log Loader (A)
Tower Yarder (Medium)

**District: West Oregon** **Date: December 18, 2024**

## Logging Costs

| | | | |
|---|---|---|---|
| **Operating Seasons:** | 2.00 | **Profit Risk:** | 10% |
| **Project Costs:** | $57,058.00 | **Other Costs (P/R):** | $0.00 |
| **Slash Disposal:** | $13,940.00 | **Other Costs:** | $3,048.50 |

**Miles of Road**

**Road Maintenance:** $10.22

| 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 | 2.0 | 4.7 |
| Alder (Red) | $0.00 | 2.0 | 4.0 |

"STEWARDSHIP IN FORESTRY"

# Timber Sale Appraisal
# Bon Voyage
## Sale WO-341-2025-W01169-01

**District: West Oregon** **Date: December 18, 2024**

## Logging Costs Breakdown

| Logging | Road Maint | Fire Protect | Hauling | Other P/R appl | Profit & Risk | Slash Disposal | Brand & Paint | Other | Total |
|---|---|---|---|---|---|---|---|---|---|
| **Douglas - Fir** | | | | | | | | | |
| $119.94 | $10.42 | $3.18 | $135.64 | $0.00 | $26.92 | $5.05 | $2.00 | $1.10 | $304.25 |
| **Alder (Red)** | | | | | | | | | |
| $119.94 | $10.63 | $3.18 | $162.50 | $0.00 | $29.62 | $5.05 | $2.00 | $1.10 | $334.02 |

| Specie | Amortization | Pond Value | Stumpage | Amortized |
|---|---|---|---|---|
| Douglas - Fir | $0.00 | $716.21 | $411.96 | $0.00 |
| Alder (Red) | $0.00 | $486.00 | $151.98 | $0.00 |

"STEWARDSHIP IN FORESTRY"

# Timber Sale Appraisal
# Bon Voyage
# Sale WO-341-2025-W01169-01

**District: West Oregon** **Date: December 18, 2024**

## Summary

**Amortized**

| Specie | MBF | Value | Total |
|---|---|---|---|
| Douglas - Fir | 0 | $0.00 | $0.00 |
| Alder (Red) | 0 | $0.00 | $0.00 |

**Unamortized**

| Specie | MBF | Value | Total |
|---|---|---|---|
| Douglas - Fir | 2,754 | $411.96 | $1,134,537.84 |
| Alder (Red) | 6 | $151.98 | $911.88 |

**Gross Timber Sale Value**

**Recovery:** $1,135,449.72

**Prepared By:** Isabelle Doan **Phone:** 541-929-3266

## SUMMARY OF ALL PROJECT COSTS

**Sale Name:** Bon Voyage

Date: February 2025
Time: 14:17

**Project #1 - New Construction**

| Road Segment | Length | Cost |
|---|---|---|
| A to B | 1.5 | $1,040 |
| **TOTALS** | 1.5 | $1,040 |

**Project #2 - Road Improvement, Surface Rock Replacement and Maintenance**

| Road Segment | Length (sta) | Cost |
|---|---|---|
| 1 to 2 | 371.2 | $31,029 |
| 3 to 4 | 48.6 | $2,024 |
| 5 to 6 | 4.3 | $73 |
| 7 to 8 | 10.9 | $185 |
| 9 to 10 | 7.0 | $4,267 |
| 11 to A | 29.8 | $2,509 |
| 12 to 13 | 3.1 | $293 |
| 14 to 15 | 13.0 | $220 |
| 16 to 17 | 6.5 | $110 |
| 18 to 19 | 14.4 | $244 |
| 18 to 20 | 89.8 | $6,203 |
| 21 to 22 | 26.2 | $2,567 |
| 23 to 24 | 33.8 | $2,177 |
| 25 to 26 | 15.7 | $266 |
| 27 to 28 | 3.0 | $51 |
| **TOTALS** | 677.3 | $52,218 |

| **Project #3 - Move in** | Cost |
|---|---|
| Dozer, D-7 or equiv. | $950 |
| Grader, Cat 12-G or equiv. | $950 |
| Vibratory roller | $950 |
| Excavator, C315 or equivilant | $950 |
| **TOTAL** | $3,800 |

**GRAND TOTAL** **$57,058**

Compiled by: Isabelle Doan Date 02/07/2025

## SUMMARY OF CONSTRUCTION COST

SALE Bon Voyage Project # 1 LENGTH 1.5 sta
ROAD A to B (Unsurfaced)

| **CLEARING AND GRUBBING** | | | | Rate | | | |
|---|---|---|---|---|---|---|---|
| Road and Landing | 0.10 | ac | @ | $1,470.00 | /acre | = | $147 |
| | | | | TOTAL CLEARING AND GRUBBING = | | | $147 |

| **EXCAVATION** | | | | Rate | | | |
|---|---|---|---|---|---|---|---|
| Construct road | 1.5 | sta | @ | $235.00 | /sta | = | $353 |
| Construct landing | 1 | ldg | @ | $480.00 | /hr | = | $480 |
| | | | | | TOTAL EXCAVATION = | | $833 |

| **IMPROVEMENT** | | | | Rate | | | |
|---|---|---|---|---|---|---|---|
| Shape subgrade (w/ grader) | 1.5 | sta | @ | $22.69 | /sta | = | $34 |
| Compact subgrade (w/ roller) | 1.5 | sta | @ | $17.50 | /sta | = | $26 |
| | | | | | TOTAL IMPROVEMENT = | | $60 |

Compiled by: Isabelle Doan
Date: Feb 7, 2025

**GRAND TOTAL =====> $1,040**

## SUMMARY OF CONSTRUCTION COST

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SALE | Bon Voyage | | Project # | 2 | | LENGTH | improve | | | 371.2 sta |
| ROAD | 1 to 2 | (Surfaced) | | | | | | | | |

| **IMPROVEMENT** | | | | | Rate | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Sod removal (w/grader) | 112.0 | sta | | @ | $16.95 | /sta | = | $1,898 | |
| Process surface rock (w/ grader) | 119.8 | sta | | @ | $22.69 | /sta | = | $2,718 | |
| Compact rock (w/ roller) | 119.8 | sta | | @ | $17.50 | /sta | = | $2,097 | |
| Widen turnout 25 ft (w/excavator) Sta 312 + 70 | 0.5 | hrs | | @ | $125.00 | /hr | = | $63 | |
| | | | | | | | TOTAL IMPROVEMENT = | | $6,776 |

| **SURFACING** | | | Size | | Rate | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Spot rock | 200 | CY | 1½"-0" | @ | $26.68 | /CY | = | $5,336 | |
| Surface rock (2-inch lift) (Sta 262 + 80 to 312 + 70) | 550 | CY | 1½"-0" | @ | $26.68 | /CY | = | $14,674 | |
| Turn-out rock | 10 | CY | 3"-0" | @ | $25.33 | /CY | = | $253 | |
| | | | | | | | TOTAL ROCK COST = | | $20,263 |

| **SPECIAL PROJECTS** | | | | | Rate | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Reopen culvert inlet (Sta 194 +10) | 0.5 | hrs | | @ | $50 | hr | = | $25 | |
| Clean out culverts (inlets and outlets) | 5 | culverts | | @ | $25 | ea | = | $125 | |
| Reestablish ditch (w/grader) | 80.0 | sta | | @ | $48 | /sta | = | $3,840 | |
| | | | | | | | TOTAL SPECIAL PROJECTS COST = | | $3,990 |

Compiled by: Isabelle Doan
Date: Feb 7, 2025

**GRAND TOTAL =====> $31,029**

## SUMMARY OF CONSTRUCTION COST

SALE Bon Voyage Project # 2 LENGTH 48.6 sta
ROAD 3 to 4 (Surfaced)

| **IMPROVEMENT** | | | Rate | | | |
|---|---|---|---|---|---|---|
| Sod Removal (w/ grader) | 48.6 sta | @ | $16.95 | /sta | = | $824 |
| Reestablish ditch (w/ grader) | 25.0 sta | @ | $48.00 | /sta | = | $1,200 |

Compiled by: Isabelle Doan
Date: Feb 7, 2025

**GRAND TOTAL =====> $2,024**

## SUMMARY OF CONSTRUCTION COST

SALE Bon Voyage Project # 2 LENGTH 4.3 sta
ROAD 5 to 6 (Surfaced)

| **IMPROVEMENT** | | | Rate | | | |
|---|---|---|---|---|---|---|
| Sod Removal (w/ grader) | 4.3 sta | @ | $16.95 | /sta | = | $73 |

Compiled by: Isabelle Doan
Date: Feb 7, 2025

**GRAND TOTAL =====> $73**

## SUMMARY OF CONSTRUCTION COST

SALE Bon Voyage Project # 2 LENGTH 10.9 sta
ROAD 7 to 8 (Surfaced)

**IMPROVEMENT**

| | | | Rate | | | |
|---|---|---|---|---|---|---|
| Sod Removal (w/ grader) | 10.9 sta | @ | $16.95 | /sta | = | $185 |

Compiled by: Isabelle Doan
Date: Feb 7, 2025

**GRAND TOTAL =====> $185**

## SUMMARY OF CONSTRUCTION COST

SALE Bon Voyage Project # 2 LENGTH 7.0 sta
ROAD 9 to 10 (Surfaced)

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **EXCAVATION** | | | | Rate | | | | |
| Construct landing | 1 | ldg | @ | $480.00 | /ldg | = | $480 | |
| | | | | | TOTAL EXCAVATION = | | | $480 |
| **IMPROVEMENT** | | | | Rate | | | | |
| Sod Removal (w/ grader) | 7.0 | sta | @ | $16.95 | /sta | = | $119 | |
| Extend road 50 ft (w/excavator) | 1 | hr | @ | $125.00 | /hr | = | $125 | |
| Compact rock (w/ roller) | 7.5 | sta | @ | $17.50 | /sta | = | $131 | |
| Shape surface rock (w/ grader) | 7.5 | sta | @ | $22.69 | /sta | = | $170 | |
| | | | | | TOTAL IMPROVEMENT = | | | $545 |
| **SURFACING** | | | Size | Rate | | | | |
| Landing rock | 50 | CY | Jaw-Run | @ $24.32 | /CY | = | $1,216 | |
| Surface rock | 80 | CY | 3"-0" | @ $25.33 | /CY | = | $2,026 | |
| | | | | | TOTAL ROCK COST = | | | $3,242 |

Date: Feb 7, 2025 **GRAND TOTAL =====> $4,267**

**SUMMARY OF CONSTRUCTION COST**

SALE Bon Voyage Project # 2 LENGTH 29.8 sta
ROAD 11 to A (Unsurfaced)

| **EXCAVATION** | | | Rate | | | |
|---|---|---|---|---|---|---|
| Reopen road (with dozer) | 29.8 sta | @ | $41.00 | /sta | = | $1,222 |
| Shape subgrade (w/ grader) | 29.8 sta | @ | $22.69 | /sta | = | $676 |
| Compact subgrade (w/ roller) | 29.8 sta | @ | $17.50 | /sta | = | $522 |
| Construct turnout (w/ dozer) (Sta 17 + 50) | 0.5 hr | @ | $178.00 | /hr | = | $89 |

TOTAL EXCAVATION = $2,509

Compiled by: Isabelle Doan
Date: Feb 7, 2025

**GRAND TOTAL =====> $2,509**

## SUMMARY OF CONSTRUCTION COST

SALE Bon Voyage Project # 2 LENGTH 3.1 sta
ROAD 12 to 13 (Unsurfaced)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **EXCAVATION** | | | | Rate | | | |
| Reopen road and landing (w/ dozer) | 3.6 | sta | @ | $41.00 | /sta | = | $148 |
| | | | | | TOTAL EXCAVATION = | | $148 |
| **IMPROVEMENT** | | | | Rate | | | |
| Shape subgrade (w/ grader) | 3.6 | sta | @ | $22.69 | /sta | = | $82 |
| Compact subgrade (w/ roller) | 3.6 | sta | @ | $17.50 | /sta | = | $63 |
| | | | | | TOTAL IMPROVEMENT = | | $145 |

Compiled by: Isabelle Doan
Date: Feb 7, 2025

**GRAND TOTAL =====> $293**

## SUMMARY OF CONSTRUCTION COST

SALE Bon Voyage Project # 2 LENGTH 13.0 sta
ROAD 14 to 15 (Surfaced)

| **IMPROVEMENT** | | | Rate | | | |
|---|---|---|---|---|---|---|
| Sod Removal (w/ grader) | 13.0 sta | @ | $16.95 | /sta | = | $220 |

Compiled by: Isabelle Doan
Date: Feb 7, 2025

**GRAND TOTAL =====> $220**

## SUMMARY OF CONSTRUCTION COST

SALE Bon Voyage Project # 2 LENGTH 6.5 sta
ROAD 16 to 17 (Surfaced)

| **IMPROVEMENT** | | | Rate | | | |
|---|---|---|---|---|---|---|
| Sod Removal (w/ grader) | 6.5 sta | @ | $16.95 | /sta | = | $110 |

Compiled by: Isabelle Doan
Date: Feb 7, 2025

**GRAND TOTAL =====> $110**

## SUMMARY OF CONSTRUCTION COST

SALE Bon Voyage Project # 2 LENGTH 14.4 sta
ROAD 18 to 19 (Surfaced)

| **IMPROVEMENT** | | | Rate | | | |
|---|---|---|---|---|---|---|
| Sod Removal (w/ grader) | 14.4 sta | @ | $16.95 | /sta | = | $244 |

Compiled by: Isabelle Doan
Date: Feb 7, 2025

**GRAND TOTAL =====> $244**

## SUMMARY OF CONSTRUCTION COST

SALE Bon Voyage Project # 2 LENGTH 26.2 sta
ROAD 18 to 20 (Surfaced)

| **IMPROVEMENT** | | | | Rate | | | | |
|---|---|---|---|---|---|---|---|---|
| Reestablish ditch (w/ grader) | 4.0 | sta | @ | $48.00 | /sta | = | $192 | |
| Sod Removal (w/ grader) | 15.0 | sta | @ | $16.95 | /sta | = | $254 | |
| Process surface (w/ grader) | 26.2 | sta | @ | $22.69 | /sta | = | $595 | |
| Compact surface (w/ roller) | 26.2 | sta | @ | $17.50 | /sta | = | $459 | |
| | | | | | TOTAL IMPROVEMENT = | | | $1,500 |

| **SURFACING** | | | Size | | Rate | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Spot rock | 40 | CY | 1 1/2"-0" | @ | $26.68 | /CY | = | $1,067 | |
| | | | | | | TOTAL ROCK COST = | | | $1,067 |

Compiled by: Isabelle Doan
Date: Feb 7, 2025

**GRAND TOTAL =====> $2,567**

## SUMMARY OF CONSTRUCTION COST

SALE Bon Voyage Project # 2 LENGTH 89.8 sta
ROAD 21 to 22 (Surfaced)

| **IMPROVEMENT** | | | | Rate | | | |
|---|---|---|---|---|---|---|---|
| Sod Removal (w/ grader) | 89.8 | sta | @ | $16.95 | /sta | = | $1,522 |
| Spot grading (w/grader) | 70.0 | sta | @ | $22.69 | /sta | = | $1,588 |
| Compact surface (w/ roller) | 70.0 | sta | @ | $17.50 | /sta | = | $1,225 |

TOTAL IMPROVEMENT = $4,335

| **SURFACING** | | | Size | | Rate | | | |
|---|---|---|---|---|---|---|---|---|
| Spot rock | 70 | CY | 1 1/2"-0" | @ | $26.68 | /CY | = | $1,868 |

TOTAL ROCK COST = $1,868

Compiled by: Isabelle Doan
Date: Feb 7, 2025

**GRAND TOTAL =: $6,203**

## SUMMARY OF CONSTRUCTION COST

SALE Bon Voyage Project # LENGTH 33.8 sta
ROAD 23 to 24 (Surfaced)

| **IMPROVEMENT** | | | | Rate | | | |
|---|---|---|---|---|---|---|---|
| Sod Removal (w/ grader) | 33.8 | sta | @ | $16.95 | /sta | = | $573 |
| Process surface (w/ grader) | 20.0 | sta | @ | $22.69 | /sta | = | $454 |
| Compact surface (w/ roller) | 20.0 | sta | @ | $17.50 | /sta | = | $350 |

TOTAL IMPROVEMENT = $1,377

| **SURFACING** | | | Size | | Rate | | | |
|---|---|---|---|---|---|---|---|---|
| Spot rock | 30 | CY | 1 1/2"-0" | @ | $26.68 | /CY | = | $800 |

TOTAL ROCK COST = $800

Compiled by: Isabelle Doan
Date: Feb 7, 2025

**GRAND TOTAL =====> $2,177**

## SUMMARY OF CONSTRUCTION COST

SALE Bon Voyage Project # 2 LENGTH 15.7 sta
ROAD 25 to 26 (Surfaced)

| **IMPROVEMENT** | | | Rate | | | |
|---|---|---|---|---|---|---|
| Sod Removal (w/ grader) | 15.7 sta | @ | $16.95 | /sta | = | $266 |

Compiled by: Isabelle Doan
Date: Feb 7, 2025

**GRAND TOTAL =====> $266**

## SUMMARY OF CONSTRUCTION COST

SALE Bon Voyage Project # 2 LENGTH 3.0 sta
ROAD 27 to 28 (Surfaced)

| **IMPROVEMENT** | | | Rate | | | |
|---|---|---|---|---|---|---|
| Sod Removal (w/ grader) | 3.0 sta | @ | $16.95 | /sta | = | $51 |

Compiled by: Isabelle Doan
Date: Feb 7, 2025

**GRAND TOTAL =====> $51**

**Rock Haul Cost Computation**

SALE NAME: Bon Voyage — DATE: Feb 7, 2025
ROAD NAME: Shingle Creek & Filched Gate — CLASS: Medium
ROCK SOURCE: Rickard — 10 CY truck
Route: Hwy 20

TIME Computation:
Road speed time factors:

| | | | | | |
|---|---|---|---|---|---|
| 1. | 55 MPH | | MRT | 0.0 | minutes |
| 2. | 50 MPH | | MRT | 0.0 | minutes |
| 3. | 45 MPH | 17.2 | MRT | 22.9 | minutes |
| 4. | 40 MPH | 9.6 | MRT | 14.4 | minutes |
| 5. | 35 MPH | | MRT | 0.0 | minutes |
| 6. | 30 MPH | | MRT | 0.0 | minutes |
| 7. | 25 MPH | | MRT | 0.0 | minutes |
| 8. | 20 MPH | 4.3 | MRT | 13.0 | minutes |
| 9. | 15 MPH | 2.0 | MRT | 7.8 | minutes |
| 10. | 10 MPH | | MRT | 0.0 | minutes |
| 11. | 05 MPH | | MRT | 0.0 | minutes |

| | | | |
|---|---|---|---|
| Dump or spread time per RT | | 0.50 | minutes |
| Total hauling cycle time for this setting (100% efficiency) | | 58.59 | minutes |
| Operator efficiency correction | 0.85 | 68.93 | minutes |
| Job efficiency correction | 0.90 | 76.59 | minutes |
| Truck capacity (CY) | 10.00 | 7.66 | min/CY |
| Loading time, delay time per CY | | 0.25 | min/CY |
| TIME (minutes) per cubic yard | | 7.91 | min/CY |

COST per CY computation

| | | |
|---|---|---|
| Cost of truck and operator per hour | $100.00 | /hr. |
| Cost of truck and operator per minute | $1.67 | /min |
| Cost per CY | $13.18 | /CY |

| **Size** | **Cost/Yd (Pit)** | **Cost Delivered w/o processing** |
|---|---|---|
| 1½" - 0" | $ 13.50 | $26.68 |
| 3" - 0" | $ 12.15 | $25.33 |
| Jaw-Run | $ 11.14 | $24.32 |

## SUMMARY OF MAINTENANCE COST

SALE: Bon Voyage

Final log haul Maintenance Cost Estimate

*(Costed in appraisal, not in project costs)*

| | | | |
|---|---|---|---|
| Move-in | Grader | $ | 950 |
| | Vibratory Roller | $ | 950 |

| Road Segment | Length | Cost/Sta | Cost | Mileage |
|---|---|---|---|---|
| 1 to 2 | 334.5 | $40.19 | $13,443.56 | 6.34 |
| 9 to 10 | 9.0 | $40.19 | $361.71 | 0.17 |
| Shingle Creek Rd | 183.2 | $40.19 | $7,362.81 | 3.47 |
| Total | 526.7 | | $21,168.07 | 9.98 |

**Maintenance Rock:**

| | Volume | Cost/CY | Cost |
|---|---|---|---|
| 1½"-0" | 200 | $26.68 | $5,336.00 |

| | | | |
|---|---|---|---|
| Grand Total | | $ | 28,404.07 |
| TS Volume | 2,780 | MBF | |
| Cost / MBF = | | | $10.22 |

**NOTES:**

# TIMBER CRUISE REPORT

## Bon Voyage
## (WO-341-2025-W01169-01)
## FY 2025

1. **Sale Area Location**: Portions of Sections 15 and 22, T10S, R07W, W.M., Benton, Oregon.

2. **Fund Distribution:**
   a. **Fund** BOF 100%

3. **Sale Acreage by Area:**

| Unit | Treatment | Gross Acres | Stream Buffers | Slope Buffer | Existing Roads | New Roads | Green Tree Area | Net Sale Acres | Acreage Comp. Method |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Modified Clearcut | 11 | - | - | <1 | - | 1 | 10 | GIS |
| 2 | Modified Clearcut | 78 | 6 | 2 | 2 | <1 | 1 | 67 | GIS |
| Total | | 89 | 6 | 2 | 2 | <1 | 2 | 77 | GIS |

4. **Cruisers and Cruise Dates:** The sale was cruised by Steven Irving and Isabelle Doan, in August of 2024.

5. **Cruise Method and Computation:** The sale consists of two units. Unit 1 and 2 are clearcuts that were cruised using variable radius plot sampling on a 4 x 4 chain grid using a 40 BAF. A total of 46 plots were taken in Unit 1 and 2 with 23 measure plots and 23 count plots.

   Measure plots were measured for DBH, height, form factor, grade, and defect. Data was entered into the Atterbury SuperACE cruise program to determine stand statistics and net board foot volume. Additional volume was removed to account for hidden defect and breakage.

   Digital ortho photos, Lidar data, and GPS data were used to map the boundaries for the sale, and ArcPro GIS was used to determine gross and net acreage.

6. **Measurement Standards:** Tree heights were measured to the nearest foot, to a top diameter of 5 inches inside bark or to 40% of form factor. Diameters at breast height (DBH) were measured to the nearest inch, and a form point of 16 feet was used to calculate form factor. Form factors were measured or estimated on every tree. Most trees were graded in 40 foot log segments unless breakage, defect, or length to top of grade cruise diameter warranted otherwise.

7. **Timber Description:** Timber is primarily 60-year-old Douglas-fir with some scattered Big Leaf Maple and Red Alder. The average Douglas-fir to be removed is approximately 22 inches DBH, with an average height of 93 feet to a merchantable top. The average bigleaf maple is approximately 21 inches DBH, with an average height of 36 feet to a merchantable top. The average Red Alder is approximately 15 inches DBH, with an average height of 34 feet to a merchantable top. The average volume per acre to be harvested (net) in Units 1 and 2 is approximately 36.1 MBF.

8. **Statistical Analysis and Stand Summary:** (See attached "Statistics").

| Unit | Target CV | Target SE | Actual CV | Actual SE |
|---|---|---|---|---|
| **1 and 2** | 55% | 9% | 43.9% | 6.5% |

Note: Statistics shown are for conifer and hardwood trees combined. Percentages are for net board foot volume.

9. **Total Volume (MBF) by Species and Grade:** (See attached volume report "Species, Sort Grade – Board Foot Volumes - Project").

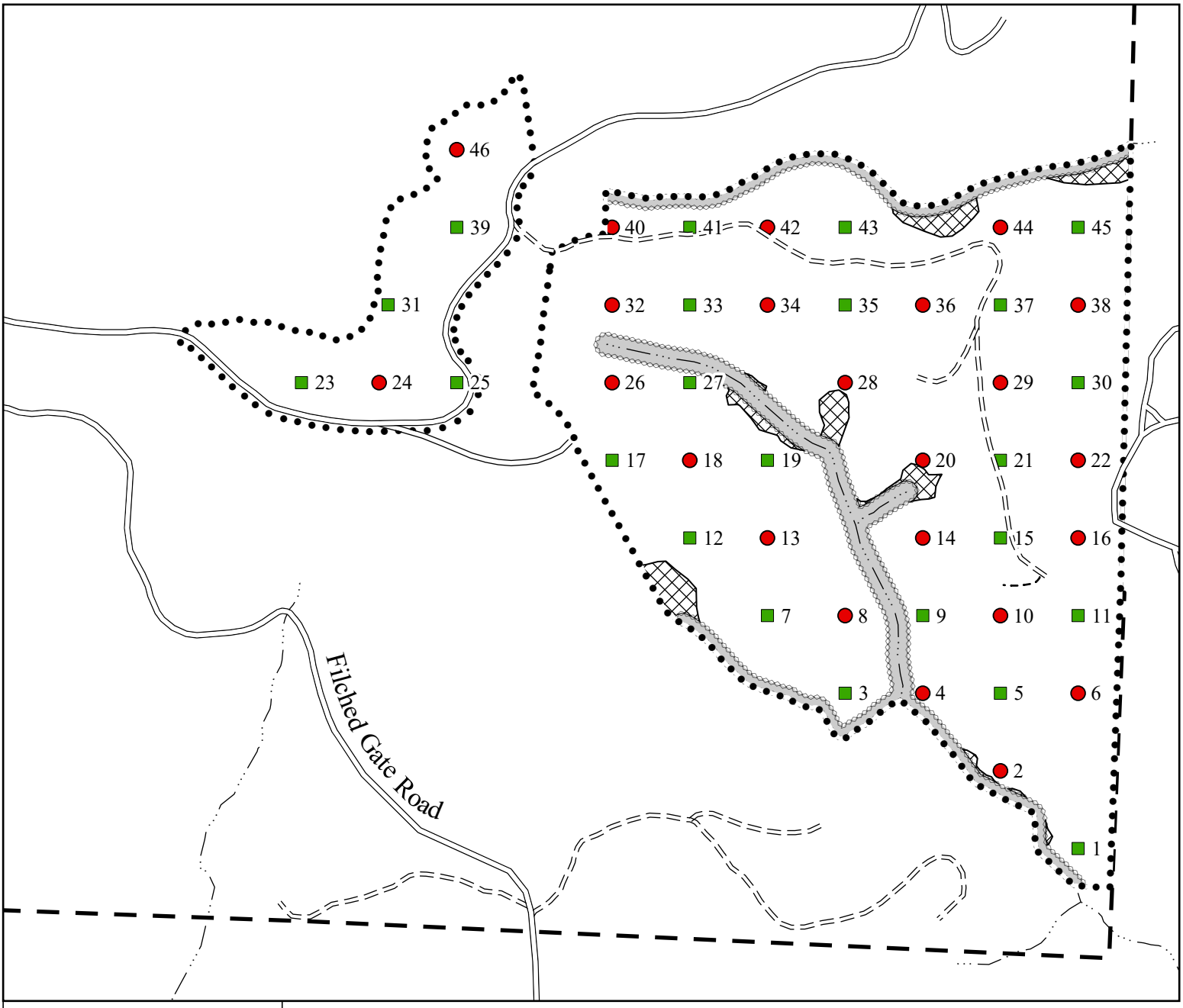
| Unit | Species | Gross Cruise Volume | Cruised D & B | Cruised D & B (MBF) | Hidden D & B | Hidden D & B (MBF) | Net Sale Volume |
|---|---|---|---|---|---|---|---|
| **1 and 2** | Douglas-fir | 2,859 | 1.7% | (49) | 2.0% | (56) | 2,754 |
| | Red Alder | 6 | 0% | (0) | 2.0% | (<1) | 6 |
| | Bigleaf Maple | 20 | 0% | (0) | 2.0% | (<1) | 20 |
| **Total** | | 2,885 | 1.7% | (49) | 2.0% | (56) | 2,780 |

| Unit | Species | Ave. DBH | Net Vol. | 2-Saw | 3-Saw | 4-Saw | Camp Run |
|---|---|---|---|---|---|---|---|
| **1 and 2** | Douglas-fir | 22 | Grade % | 77% | 19% | 4% | - |
| | | | 2,754 | 2,121 | 523 | 110 | - |
| | Red Alder | 15 | Grade % | - | - | - | 100% |
| | | | 6 | - | - | - | 6 |
| | Bigleaf Maple | 21 | Grade % | - | - | - | 100% |
| | | | 20 | - | - | - | 20 |
| **Total** | | | 2,780 | 2,754 | 523 | 110 | 26 |

Attachments: Cruise Design
Cruise Maps
Species, Sort Grade – Board Foot Volumes
Statistics
Stand Table Summary
Log Stock Table – MBF

Prepared by: Isabelle Doan Date: 12/18/2024

Unit Forester: Cody Valencia Date: 12/18/24
Cody Valencia




Legend

- Ownership
- Timber Sale Boundary
- Type N Stream
- Surfaced Road
- Unsurfaced Road
- Stream Buffer
- Slope Buffer
- Count
- Grade

# Cruise Map
# Bon Voyage Unit 1 and 2

| AREA | GROSS ACRES | NET ACRES |
|---|---|---|
| 1 (MC) | 11 | 10 |
| 2 (MC) | 79 | 67 |
| TOTAL | 90 | 77 |

Unit 1 & 2 - 4x4 Chain Spacing
40 BAF
Line Bearing 90 and 270

N

Scale

1:6,000

0 500 1,000 2,000 Feet

Revised August, 2002

# CRUISE DESIGN
# WEST OREGON DISTRICT

**Sale Name:** Bon Voyage **Area** 1 and 2

**Harvest Type:** MC Net BF 32 Net BF
**Approx. Cruise Acres:** 78.4 **Estimated CV%** 55 /Acre **SE% Objective** 9% /Acre

**Planned Sale Volume:** 2.496 MMBF **Estimated Sale Area Value/Acre:** $ 450

**A. Cruise Goals:** (a) Grade minimum 100 conifer and ____ hardwood trees:
(b) Sample 46 cruise plots (23 grade: 23 count); (c) Other goals X Determine log grades for sale value; __ Determine take and leave tree species and sizes.

(Special cruising directions – leave trees etc.) Take plots as shown on map. Do not take plots in buffers.

DO NOT RECORD 12', 22' and 32' (for Hardwoods).

DO NOT RECORD 22' LENGTHS.

**B. Cruise Design:**

1. **Plot Cruises:** BAF 40 Full point
   Cruise Line Direction(s) 90 and 270
   Cruise Line Spacing 4 chains. 265 ft
   Cruise Plot Spacing 4 chains. 265 ft
   Grade/Count Ratio 1:1

**C. Tree Measurements:**

1. **Diameter:** Minimum DBH to cruise is 8" for conifers and 10" for hardwoods. Record dbh to nearest ½" for trees < 16", to nearest 1" for trees 16-24", and to nearest 2" for trees > 24". If tree diameters are estimated (only estimate on variable plot cruises), then record to closest estimate.

2. **Bole Length:** Record bole length to nearest foot at TCD. For trees greater than 100 feet in merchantable height, estimating to the nearest 5 feet is acceptable.

3. **Top Cruise Diameter (TCD):** Minimum top outside bark for conifer is 5", 7" for hardwoods or 40 % of dob at 16' form point. Generally, use 7" outside bark for trees < 18" dbh and 40% of dob @ FP for trees > 18" dbh.

4. **Form Factors:** (1) Measure or estimate a 16' form factor for every conifer tree measured/graded; OR (2) Measure a minimum of 20 form factors for each major conifer species on the cruise area, and use these to calculate average FF for the species on the cruise. Hardwood form factors are a Standard 87.

5. **Tree Segments:** Record log segments in "standard" log lengths in general use, such as 32' and 40' lengths, whenever possible. Do not record odd segments just to maximize grade. Cull segments can be any length. For conifers, minimum merchantable segment length is 12'; for

hardwoods, it's 8'. Maximum segment length is 40'. One foot of trim is assumed for each merch. log segment. Do not use "double dash" (--) feature on the data recorder except for the top segment of the tree.

6. **Species, Sort, and Grade Codes:** A. Species: Record as DF (Douglas-fir); WH (Western hemlock); SS (Sitka Spruce); RC (Western red cedar); NF (Noble fir); SF (Silver fir); RA (Red alder); BM (Bigleaf maple). For "leave trees" in partial cuts, or for marked "wildlife trees," add an "L" to the species code (such as DFL, HL, CL, etc.)
   B. Sort: Use code "1" (Domestic).
   C. Grade: A = 1 Peeler; B = 2 Peeler; C = 3 Peeler; D = Special Mill; 2 = 2 Sawmill; 3 = 3 Sawmill; 4 = 4 Sawmill; K = Camp Run; 0 = Cull ;
   Hardwoods: K = Camprun; #1 Sawmill = 12"+ scaling diameter; #2 Sawmill = 10" and 11"; #3 Sawmill = 8" and 9"; #4 Sawmill = 6" and 7"

7. **Deductions:** Estimate visible defect or damage as a "length deduction" (most often), or as a "diameter deduction," as applicable. Estimate hidden defect and breakage (usually some breakage is encountered in trees > 100 feet in height) on a "per tree" basis. Steep and broken topography generally results in higher breakage percentages than gentler topography, and hemlock generally breaks more than D-fir and spruce.

8. **Standard Field Procedures:** Plot Type Cruises: At each plot, tie red flagging above eye level near plot center and another red flagging around a sturdy wooden stake marking plot center. On red flagging, write the plot identification number. On "measure/grade" plots write the tree number and/or tree diameter on all measured trees (clockwise from the line direction) in yellow paint.

9. **Cruising Equipment:** Relaskop, Rangefinder, Logger's Tape (with dbh on back), Compass, Cruise Cards or Data Recorder, Cruise Design, Cruise Map, Red Flagging, Yellow Paint.

10. **Attachments:** A. Cruise Map (showing cruise unit boundaries, roads, streams, approx. acres/unit, cruise lines and plot locations, legal description and section lines, BAF or plot size, measure/count plot ratio, north arrow, and scale.

Cruise Design by: __Isabelle Doan_____
Approved by: _____
Date: ___07/29/2024_____

T TSPCSTGR

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

**Project:** BONVOYAG

**Page** 1
**Date** 12/20/2024
**Time** 3:40:55PM

**T10S R07W S15 T00MC**

| Twp | Rge | Sec | Tract | Type | Acres | Plots | Sample Trees | CuFt | BdFt |
|---|---|---|---|---|---|---|---|---|---|
| 10S | 07W | 15 | ALL | 00MC | 77.00 | 46 | 120 | 1 | W |

**T10S R07W S15 T00MC**

| Spp | ST | Sort | Grad | % Net BdFt | Bd. Ft. per Acre Def% | Gross | Net | Total Net MBF | Percent Net Board Foot Volume: Log Scale Dia. 4-5 | 6-11 | 12-16 | 17+ | Log Length 12-20 | 21-30 | 31-35 | 36-99 | Average Log: Ln Ft | Dia In | Bd Ft | CF/ Lf | Logs Per /Acre |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DF | | DO | 2M | 77 | 1.7 | 28,630 | 28,129 | 2,166 | | | 56 | 44 | 0 | 1 | 0 | 98 | 39 | 15 | 363 | 2.09 | 77.4 |
| DF | | DO | 3M | 19 | 1.4 | 7,037 | 6,938 | 534 | | 100 | | | 1 | 4 | 14 | 81 | 36 | 9 | 115 | 0.91 | 60.4 |
| DF | | DO | 4M | 4 | 1.0 | 1,450 | 1,435 | 110 | 30 | 70 | | | 57 | 20 | 11 | 12 | 20 | 6 | 26 | 0.47 | 54.4 |
| **DF** | **Totals** | | | 99 | 1.7 | 37,118 | 36,502 | 2,811 | 1 | 22 | 43 | 34 | 3 | 3 | 3 | 92 | 33 | 11 | 190 | 1.40 | 192.2 |
| SN | | DO | CU | | | | | | | | | | | | | | 80 | 13 | | 0.00 | 2.4 |
| **SN** | **Totals** | | | | | | | | | | | | | | | | 80 | 13 | | 0.00 | 2.4 |
| BM | | DO | CR | 100 | | 254 | 254 | 20 | | 11 | 89 | | 40 | | | 60 | 25 | 13 | 169 | 1.79 | 1.5 |
| **BM** | **Totals** | | | 1 | | 254 | 254 | 20 | | 11 | 89 | | 40 | | | 60 | 25 | 13 | 169 | 1.79 | 1.5 |
| RA | | DO | CR | 100 | | 79 | 79 | 6 | | 100 | | | | 51 | | 49 | 32 | 7 | 58 | 0.79 | 1.4 |
| **RA** | **Totals** | | | 0 | | 79 | 79 | 6 | | 100 | | | | 51 | | 49 | 32 | 7 | 58 | 0.79 | 1.4 |
| **Type Totals** | | | | | 1.6 | 37,451 | 36,835 | 2,836 | 1 | 22 | 43 | 33 | 3 | 3 | 3 | 91 | 33 | 11 | 187 | 1.36 | 197.5 |

TC TSTNDSUM

# Stand Table Summary

**Project** **BONVOYAG**

**T10S R07W S15 T00MC**

**T10S R07W S15 T00MC**

| Twp | Rge | Sec | Tract | Type | Acres | Plots | Sample Trees |
|---|---|---|---|---|---|---|---|
| 10S | 07W | 15 | ALL | 00MC | 77.00 | 46 | 120 |

**Page:** 1
**Date:** 12/20/202
**Time:** 3:40:54PM

| Spc | ST | DBH | Sample Trees | FF 16' | Av Ht Tot | Trees/ Acre | BA/ Acre | Logs Acre | Average Log Net Cu.Ft. | Average Log Net Bd.Ft. | Tons/ Acre | Net Cu.Ft. Acre | Net Bd.Ft. Acre | Totals Tons | Totals Cunits | Totals MBF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DF | | 13 | 1 | 87 | 102 | 1.820 | 1.68 | 3.64 | 17.0 | 55.0 | | 62 | 200 | | 48 | 15 |
| DF | | 14 | 1 | 90 | 84 | 1.569 | 1.68 | 3.14 | 19.5 | 70.0 | | 61 | 220 | | 47 | 17 |
| DF | | 15 | 2 | 87 | 100 | 2.734 | 3.36 | 5.47 | 23.5 | 85.0 | | 128 | 465 | | 99 | 36 |
| DF | | 17 | 2 | 86 | 107 | 2.129 | 3.36 | 5.32 | 25.8 | 94.0 | | 137 | 500 | | 106 | 39 |
| DF | | 18 | 6 | 88 | 104 | 5.696 | 10.07 | 13.29 | 31.3 | 110.0 | | 416 | 1,462 | | 320 | 113 |
| DF | | 19 | 5 | 87 | 105 | 4.260 | 8.39 | 10.22 | 33.6 | 114.2 | | 343 | 1,167 | | 264 | 90 |
| DF | | 20 | 13 | 87 | 119 | 9.996 | 21.81 | 28.45 | 34.4 | 131.9 | | 978 | 3,752 | | 753 | 289 |
| DF | | 21 | 9 | 87 | 112 | 6.277 | 15.10 | 16.74 | 39.0 | 142.5 | | 654 | 2,385 | | 503 | 184 |
| DF | | 22 | 9 | 89 | 120 | 5.719 | 15.10 | 17.16 | 41.0 | 172.6 | | 704 | 2,961 | | 542 | 228 |
| DF | | 23 | 11 | 88 | 125 | 6.396 | 18.45 | 19.19 | 46.3 | 192.4 | | 888 | 3,692 | | 684 | 284 |
| DF | | 24 | 12 | 88 | 126 | 6.408 | 20.13 | 18.69 | 51.2 | 212.3 | | 957 | 3,968 | | 737 | 305 |
| DF | | 25 | 9 | 88 | 133 | 4.429 | 15.10 | 13.29 | 56.8 | 239.6 | | 755 | 3,184 | | 581 | 245 |
| DF | | 26 | 8 | 89 | 137 | 3.640 | 13.42 | 10.92 | 62.9 | 273.8 | | 687 | 2,989 | | 529 | 230 |
| DF | | 27 | 8 | 88 | 134 | 3.375 | 13.42 | 10.13 | 67.2 | 290.8 | | 680 | 2,945 | | 524 | 227 |
| DF | | 28 | 3 | 88 | 130 | 1.177 | 5.03 | 3.53 | 69.7 | 301.1 | | 246 | 1,063 | | 189 | 82 |
| DF | | 29 | 1 | 87 | 140 | .366 | 1.68 | 1.10 | 79.0 | 373.3 | | 87 | 410 | | 67 | 32 |
| DF | | 30 | 5 | 89 | 136 | 1.709 | 8.39 | 5.13 | 84.9 | 404.7 | | 435 | 2,074 | | 335 | 160 |
| DF | | 31 | 1 | 87 | 129 | .320 | 1.68 | .96 | 82.3 | 356.7 | | 79 | 342 | | 61 | 26 |
| DF | | 32 | 2 | 87 | 140 | .601 | 3.36 | 1.80 | 88.8 | 418.3 | | 160 | 754 | | 123 | 58 |
| DF | | 33 | 2 | 89 | 131 | .565 | 3.36 | 1.69 | 97.7 | 445.0 | | 166 | 754 | | 127 | 58 |
| DF | | 34 | 3 | 89 | 134 | .798 | 5.03 | 2.39 | 103.3 | 506.7 | | 247 | 1,213 | | 191 | 93 |
| DF | | Totals | 113 | 88 | 119 | 69.984 | 189.57 | 192.25 | 46.1 | 189.9 | | 8,870 | 36,502 | | 6,830 | 2,811 |
| BM | | 18 | 1 | 86 | 33 | .738 | 1.30 | .74 | 27.0 | 100.0 | | 20 | 74 | | 15 | 6 |
| BM | | 25 | 1 | 86 | 84 | .383 | 1.30 | .77 | 62.0 | 235.0 | | 47 | 180 | | 37 | 14 |
| BM | | Totals | 2 | 86 | 50 | 1.121 | 2.61 | 1.50 | 44.8 | 168.7 | | 67 | 254 | | 52 | 20 |
| RA | | 14 | 1 | 85 | 38 | .813 | .87 | .81 | 20.0 | 50.0 | | 16 | 41 | | 13 | 3 |
| RA | | 17 | 1 | 86 | 49 | .552 | .87 | .55 | 33.0 | 70.0 | | 18 | 39 | | 14 | 3 |
| RA | | Totals | 2 | 85 | 42 | 1.365 | 1.74 | 1.37 | 25.3 | 58.1 | | 34 | 79 | | 27 | 6 |
| SN | | 20 | 3 | 86 | 81 | 2.391 | 5.22 | | | | | | | | | |
| SN | | Totals | 3 | 86 | 81 | 2.391 | 5.22 | | | | | | | | | |
| Totals | | | 120 | 88 | 115 | 74.861 | 199.13 | 195.11 | 46.0 | 188.8 | | 8972 | 36,835 | | 6,909 | 2,836 |

TC TLOGSTVB

# Log Stock Table - MBF

**Project:** **BONVOYAG**

**T10S R07W S15 T00MC** — **T10S R07W S15 T00M**

| Twp | Rge | Sec | Tract | Type | Acres | Plots | Sample Trees |
|---|---|---|---|---|---|---|---|
| 10S | 07W | 15 | ALL | 00MC | 77.00 | 46 | 120 |

**Page** 1
**Date** 12/20/2024
**Time** 3:40:53PM

| Spp | ST | Sort | Grade | 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 | | DO | 2M | 14 | 4 | | 4 | .1 | | | | | | 4 | | | | | | |
| DF | | DO | 2M | 24 | 26 | 2.3 | 25 | .9 | | | | | | | | 12 | 13 | | | |
| DF | | DO | 2M | 32 | 5 | 6.3 | 5 | .2 | | | | | | 5 | | | | | | |
| DF | | DO | 2M | 36 | 33 | 3.4 | 32 | 1.1 | | | | | | | | 32 | | | | |
| DF | | DO | 2M | 38 | 76 | 3.1 | 74 | 2.6 | | | | | | 27 | | 8 | 38 | | | |
| DF | | DO | 2M | 40 | 2,060 | 1.7 | 2,026 | 72.1 | | | | | | 347 | | 473 | 885 | 256 | 65 | |
| DF | | DO | 3M | 18 | 4 | 4.6 | 4 | .2 | | | | | 4 | | | | | | | |
| DF | | DO | 3M | 20 | 2 | 14.3 | 2 | .1 | | | | | 2 | | | | | | | |
| DF | | DO | 3M | 24 | 10 | | 10 | .4 | | | | 2 | 8 | | | | | | | |
| DF | | DO | 3M | 26 | 2 | | 2 | .1 | | | | 2 | | | | | | | | |
| DF | | DO | 3M | 28 | 10 | | 10 | .4 | | | 2 | 6 | 2 | | | | | | | |
| DF | | DO | 3M | 30 | 2 | | 2 | .1 | | | | 2 | | | | | | | | |
| DF | | DO | 3M | 32 | 71 | 2.3 | 70 | 2.5 | | | 7 | 31 | 31 | | | | | | | |
| DF | | DO | 3M | 34 | 3 | | 3 | .1 | | | 3 | | | | | | | | | |
| DF | | DO | 3M | 36 | 53 | .8 | 53 | 1.9 | | | | 28 | 25 | | | | | | | |
| DF | | DO | 3M | 38 | 62 | .9 | 62 | 2.2 | | | 4 | 43 | 15 | | | | | | | |
| DF | | DO | 3M | 40 | 322 | 1.4 | 318 | 11.3 | | | 15 | 69 | 234 | | | | | | | |
| DF | | DO | 4M | 12 | 12 | 4.0 | 12 | .4 | | 2 | 8 | 2 | | | | | | | | |
| DF | | DO | 4M | 14 | 10 | | 10 | .3 | | | 10 | | | | | | | | | |
| DF | | DO | 4M | 16 | 18 | 3.8 | 17 | .6 | | | 11 | 4 | 2 | | | | | | | |
| DF | | DO | 4M | 18 | 16 | | 16 | .6 | | 1 | 12 | 2 | | | | | | | | |
| DF | | DO | 4M | 20 | 8 | | 8 | .3 | | | 4 | 4 | | | | | | | | |
| DF | | DO | 4M | 24 | 19 | | 19 | .7 | | 4 | 7 | 8 | | | | | | | | |
| DF | | DO | 4M | 26 | 4 | | 4 | .1 | | | 4 | | | | | | | | | |
| DF | | DO | 4M | 32 | 10 | | 10 | .3 | | 10 | | | | | | | | | | |
| DF | | DO | 4M | 34 | 3 | | 3 | .1 | | 3 | | | | | | | | | | |
| DF | | DO | 4M | 36 | 4 | | 4 | .1 | | 4 | | | | | | | | | | |
| DF | | DO | 4M | 38 | 6 | | 6 | .2 | | 6 | | | | | | | | | | |
| DF | | DO | 4M | 40 | 3 | | 3 | .1 | | 3 | | | | | | | | | | |
| DF | | Totals | | | 2,858 | 1.7 | 2,811 | 99.1 | | 33 | 86 | 203 | 323 | 384 | 525 | 936 | 256 | 65 | | |
| SN | | DO | CU | 80 | | | | | | | | | | | | | | | | |
| SN | | Totals | | | | | | | | | | | | | | | | | | |
| BM | | DO | CR | 20 | 8 | | 8 | 39.7 | | | | | 2 | 6 | | | | | | |
| BM | | DO | CR | 40 | 12 | | 12 | 60.3 | | | | | | | | 12 | | | | |
| BM | | Totals | | | 20 | | 20 | .7 | | | | | 2 | 6 | | 12 | | | | |
| RA | | DO | CR | 28 | 3 | | 3 | 51.3 | | | 3 | | | | | | | | | |
| RA | | DO | CR | 38 | 3 | | 3 | 48.7 | | | 3 | | | | | | | | | |
| RA | | Totals | | | 6 | | 6 | .2 | | | 6 | | | | | | | | | |
| Total All Species | | | | | 2,884 | 1.6 | 2,836 | 100.0 | | 33 | 92 | 203 | 325 | 389 | 525 | 948 | 256 | 65 | | |

TC PSTATS

# PROJECT STATISTICS

PROJECT BONVOYAG



DATE 12/20/2024

| TWP | RGE | SC | TRACT | TYPE | ACRES | PLOTS | TREES | CuFt | BdFt |
|---|---|---|---|---|---|---|---|---|---|
| 10S | 07 | 15 | ALL | 00MC | 77.00 | 46 | 234 | 1 | W |

| | PLOTS | TREES | TREES PER PLOT | ESTIMATED TOTAL TREES | PERCENT SAMPLE TREES |
|---|---|---|---|---|---|
| TOTAL | 46 | 234 | 5.1 | | |
| CRUISE | 23 | 120 | 5.2 | 5,764 | 2.1 |
| DBH COUNT | | | | | |
| REFOREST | | | | | |
| COUNT | 23 | 114 | 5.0 | | |
| 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| DF | 113 | 70.0 | 22.3 | 93 | 40.2 | 189.6 | 37,118 | 36,502 | 8,870 | 8,870 |
| SNAG | 3 | 2.4 | 20.0 | 81 | 1.2 | 5.2 | | | | |
| BL MAPLE | 2 | 1.1 | 20.7 | 36 | 0.6 | 2.6 | 254 | 254 | 67 | 67 |
| R ALDER | 2 | 1.4 | 15.3 | 34 | 0.4 | 1.7 | 79 | 79 | 34 | 34 |
| **TOTAL** | *120* | *74.9* | *22.1* | *91* | *42.4* | *199.1* | *37,451* | *36,835* | *8,972* | *8,972* |

CONFIDENCE LIMITS OF THE SAMPLE

68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR

CL 68.1 SD: 1.0

**SAMPLE TREES - BF**

| | COEFF VAR.% | S.E.% | LOW | AVG | HIGH | # OF TREES REQ. 5 | 10 | INF. POP. 15 |
|---|---|---|---|---|---|---|---|---|
| DF | 52.0 | 4.9 | 601 | 632 | 663 | | | |
| SNAG | | | | | | | | |
| BL MAPLE | 91.8 | 86.0 | 40 | 285 | 530 | | | |
| R ALDER | 23.6 | 22.1 | 47 | 60 | 73 | | | |
| **TOTAL** | *57.4* | *5.2* | *570* | *601* | *633* | *132* | *33* | *15* |

CL 68.1 SD: 1.0

**SAMPLE TREES - CF**

| | COEFF VAR.% | S.E.% | LOW | AVG | HIGH | # OF TREES REQ. 5 | 10 | INF. POP. 15 |
|---|---|---|---|---|---|---|---|---|
| DF | 42.9 | 4.0 | 143 | 149 | 155 | | | |
| SNAG | | | | | | | | |
| BL MAPLE | 90.8 | 85.1 | 11 | 76 | 140 | | | |
| R ALDER | 34.7 | 32.5 | 18 | 27 | 35 | | | |
| **TOTAL** | *48.5* | *4.4* | *136* | *142* | *149* | *94* | *23* | *10* |

CL 68.1 SD: 1.0

**TREES/ACRE**

| | COEFF VAR.% | S.E.% | LOW | AVG | HIGH | # OF PLOTS REQ. 5 | 10 | INF. POP. 15 |
|---|---|---|---|---|---|---|---|---|
| DF | 48.1 | 7.1 | 65 | 70 | 75 | | | |
| SNAG | 347.0 | 51.1 | 1 | 2 | 4 | | | |
| BL MAPLE | 396.3 | 58.4 | 0 | 1 | 2 | | | |
| R ALDER | 483.3 | 71.2 | 0 | 1 | 2 | | | |
| **TOTAL** | *41.8* | *6.2* | *70* | *75* | *79* | *70* | *17* | *8* |

CL 68.1 SD: 1.0

**BASAL AREA/ACRE**

| | COEFF VAR.% | S.E.% | LOW | AVG | HIGH | # OF PLOTS REQ. 5 | 10 | INF. POP. 15 |
|---|---|---|---|---|---|---|---|---|
| DF | 43.5 | 6.4 | 177 | 190 | 202 | | | |
| SNAG | 347.0 | 51.1 | 3 | 5 | 8 | | | |
| BL MAPLE | 382.8 | 56.4 | 1 | 3 | 4 | | | |
| R ALDER | 474.2 | 69.9 | 1 | 2 | 3 | | | |
| **TOTAL** | *38.7* | *5.7* | *188* | *199* | *210* | *60* | *15* | *7* |

CL 68.1 SD: 1.0

**NET BF/ACRE**

| | COEFF VAR.% | S.E.% | LOW | AVG | HIGH | # OF PLOTS REQ. 5 | 10 | INF. POP. 15 |
|---|---|---|---|---|---|---|---|---|
| DF | 44.2 | 6.5 | 34,124 | 36,502 | 38,881 | | | |
| SNAG | | | | | | | | |
| BL MAPLE | 405.9 | 59.8 | 102 | 254 | 405 | | | |
| R ALDER | 474.4 | 69.9 | 24 | 79 | 135 | | | |

TC PSTATS

# PROJECT STATISTICS

PROJECT BONVOYAG

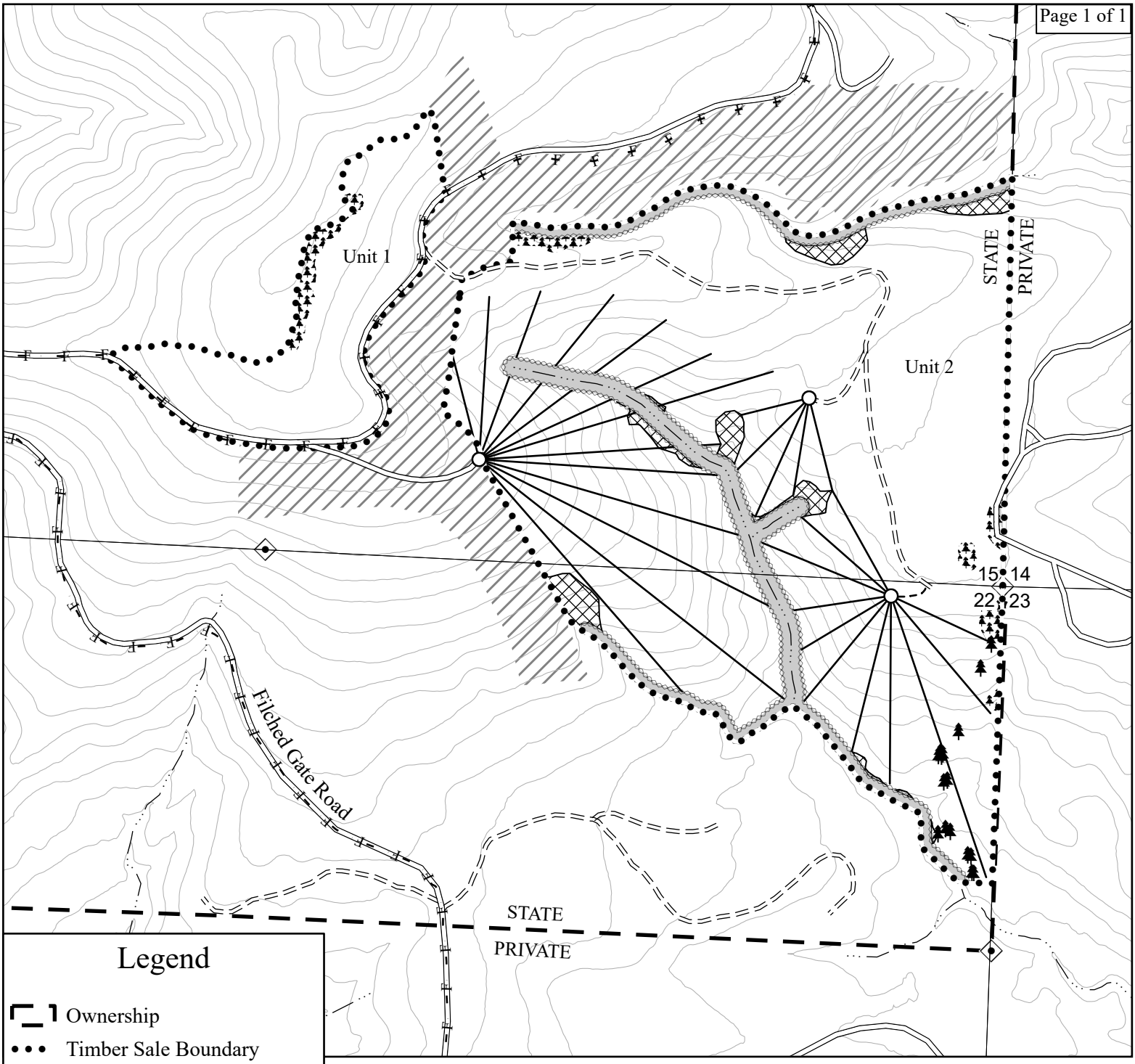


DATE 12/20/2024

| TWP | RGE | SC | TRACT | TYPE | ACRES | PLOTS | TREES | CuFt | BdFt |
|---|---|---|---|---|---|---|---|---|---|
| 10S | 07 | 15 | ALL | 00MC | 77.00 | 46 | 234 | 1 | W |

| CL 68.1 | | | NET BF/ACRE | | | # OF PLOTS REQ. | | INF. POP. |
|---|---|---|---|---|---|---|---|---|
| SD: 1.00 | COEFF VAR. | S.E.% | LOW | AVG | HIGH | 5 | 10 | 15 |
| **TOTAL** | *43.9* | *6.5* | *34,451* | *36,835* | *39,219* | *77* | *19* | *9* |

| CL 68.1 | | | NET CUFT FT/ACRE | | | # OF PLOTS REQ. | | INF. POP. |
|---|---|---|---|---|---|---|---|---|
| SD: 1.0 | COEFF VAR.% | S.E.% | LOW | AVG | HIGH | 5 | 10 | 15 |
| DF | 43.8 | 6.5 | 8,298 | 8,870 | 9,443 | | | |
| SNAG | | | | | | | | |
| BL MAPLE | 404.9 | 59.6 | 27 | 67 | 108 | | | |
| R ALDER | 475.0 | 70.0 | 10 | 34 | 59 | | | |
| **TOTAL** | *43.4* | *6.4* | *8,399* | *8,972* | *9,546* | *75* | *19* | *8* |




## Legend

- Ownership
- Timber Sale Boundary
- Stream Buffer
- Slope Buffer
- Green Tree Retention Area
- Reforestation Area
- Surfaced Road
- Unsurfaced Road
- Cable Corridor
- Type N Stream
- Fiber Optic Line
- Wildlife Tree
- Landing
- Land Survey Monument

# LOGGING PLAN

OF TIMBER SALE CONTRACT NO. WO-341-2025-W01169-01
BON VOYAGE
PORTIONS OF SECTIONS 15 and 22, T10S, R07W, W.M.,
BENTON COUNTY, OREGON

This product is for informational use and may not have been prepared for or be suitable for legal, engineering or survey purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of this information.

Scale
1:6,000

0 400 800 1,600 Feet

| AREA | Tractor Acres | Cable Acres |
|---|---|---|
| 1 (MC) | 10 | 0 |
| 2 (MC) | 24 | 43 |
| TOTAL | 34 | 43 |

N

Date: 12/16/2024