# Timber Sale Appraisal
# Mashed Potatoes

## Sale NC-341-2027-W01249-01

**District: N Cascade** **Date: April 21, 2026**

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## Cost Summary

| | Conifer | Hardwood | Total |
|---|---|---|---|
| **Gross Timber Sale Value** | $3,033,441.04 | $2,494.96 | $3,035,936.00 |
| | | **Project Work:** | ($110,891.96) |
| | | **Advertised Value:** | $2,925,044.04 |

## Timber Description

**Location:** Sections 29, 31, & 32, T7S, R2E, W.M. Marion County, Oregon

**Stand Stocking:** 40%

| Specie Name | AvgDBH | Amortization (%) | Recovery (%) |
|---|---|---|---|
| Douglas - Fir | 30 | 0 | 98 |
| Western Hemlock / Fir | 19 | 0 | 97 |
| Alder (Red) | 22 | 0 | 97 |
| Maple | 16 | 0 | 97 |

| Volume by Grade | 2S | 3S & 4S 6"-11" | 3S 12"+ | SM & Better | Camprun | Total |
|---|---|---|---|---|---|---|
| **Douglas - Fir** | 4,026 | 366 | 70 | 950 | 0 | 5,412 |
| **Western Hemlock / Fir** | 28 | 4 | 0 | 0 | 0 | 32 |
| **Alder (Red)** | 0 | 0 | 0 | 0 | 8 | 8 |
| **Maple** | 0 | 0 | 0 | 0 | 4 | 4 |
| **Total** | 4,054 | 370 | 70 | 950 | 12 | 5,456 |

**Comments:** Pond Values Used: Local Pond Values, March 2026

Other Hardwood:
At price of big-leaf maple.

Western redcedar and other cedars stumpage price = Pond value minus logging cost:
$1,033.25/MBF = $1,250/MBF - $216.75/MBF

Other Conifers:
At price of Western Hemlock.

Pulp Price: $20/MBF = $2/ton X 10 ton/MBF

OTHER COSTS (With Profit & Risk to be added)
Season 1 Equipment Move-In: Accounted for in Logging Cost
Equipment Weed Wash: ($50/hr labor cost) 6-hour wash time = $300 x 3 pieces of equipment = $900
TOTAL Other Costs (with Profit & Risk to be added) = $900

OTHER COSTS (No Profit and Risk added)
None

SLASH DISPOSAL COSTS
In-Unit Piling: $300/ac x 138 acres = $41,400
Equipment move-in and weed wash: $2,050
Pile Covering: ($8/pile x 225 piles) + ($50/hr x 2 personnel x 32 hours) = $5,000

TOTAL Slash Disposal Costs = $48,450

ROAD MAINTENANCE COSTS
Grader Move-In: $1,400
Roller Move-In: $1,400
General Road Maintenance: 7.05 miles x $2,100/mile = $14,805
General Rock wear placement: $0.10/MBFmile x 7.05 miles x 5,456 MBF = $3,846
Subtotal = $1,400 + $1,400 + $14,805 + $3,846 = $21,451
TOTAL Road Maintenance Costs = $21,451/ 5,456MBF = $3.93/MBF

## Logging Conditions

**Combination#: 1**

| | |
|---|---|
| Douglas - Fir | 32.59% |
| Western Hemlock / Fir | 55.00% |

**Logging System:** Shovel
**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:** 18
**bd. ft / load:** 5200
**cost / mbf:** $106.84
**machines:** Shovel Logger

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**Combination#: 2**

| | |
|---|---|
| Douglas - Fir | 67.41% |
| Western Hemlock / Fir | 45.00% |
| Alder (Red) | 100.00% |
| Maple | 100.00% |

**Logging System:** Shovel
**Process:** Manual Falling/Delimbing
**yarding distance:** Short (400 ft)
**downhill yarding:** No
**tree size:** Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF
**loads / day:** 20
**bd. ft / load:** 5200
**cost / mbf:** $96.16
**machines:** Shovel Logger

## Logging Costs

| | | | |
|---|---|---|---|
| **Operating Seasons:** | 2.00 | **Profit Risk:** | 10% |
| **Project Costs:** | $110,891.96 | **Other Costs (P/R):** | $900.00 |
| **Slash Disposal:** | $48,450.00 | **Other Costs:** | $0.00 |

**Miles of Road**

**Road Maintenance:** $3.93

| 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 | 5.2 |
| Western Hemlock / Fir | $0.00 | 2.0 | 4.8 |
| Alder (Red) | $0.00 | 2.0 | 4.5 |
| Maple | $0.00 | 2.0 | 4.5 |

## Logging Costs Breakdown

| Logging | Road Maint | Fire Protect | Hauling | Other P/R appl | Profit & Risk | Slash Disposal | Brand & Paint | Other | Total |
|---|---|---|---|---|---|---|---|---|---|
| **Douglas - Fir** | | | | | | | | | |
| $99.64 | $4.01 | $1.61 | $81.73 | $0.16 | $18.72 | $8.88 | $2.00 | $0.00 | $216.75 |
| **Western Hemlock / Fir** | | | | | | | | | |
| $102.03 | $4.05 | $1.61 | $134.12 | $0.16 | $24.20 | $8.88 | $2.00 | $0.00 | $277.05 |
| **Alder (Red)** | | | | | | | | | |
| $96.16 | $4.05 | $1.61 | $143.06 | $0.16 | $24.50 | $8.88 | $2.00 | $0.00 | $280.42 |
| **Maple** | | | | | | | | | |
| $96.16 | $4.05 | $1.61 | $143.06 | $0.16 | $24.50 | $8.88 | $2.00 | $0.00 | $280.42 |

| Specie | Amortization | Pond Value | Stumpage | Amortized |
|---|---|---|---|---|
| Douglas - Fir | $0.00 | $775.65 | $558.90 | $0.00 |
| Western Hemlock / Fir | $0.00 | $548.12 | $271.07 | $0.00 |
| Alder (Red) | $0.00 | $535.00 | $254.58 | $0.00 |
| Maple | $0.00 | $395.00 | $114.58 | $0.00 |

# Timber Sale Appraisal
# Mashed Potatoes

## Sale NC-341-2027-W01249-01

**District: N Cascade**

**Date: April 21, 2026**

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## Summary

**Amortized**

| **Specie** | **MBF** | **Value** | **Total** |
|---|---|---|---|
| Douglas - Fir | 0 | $0.00 | $0.00 |
| Western Hemlock / Fir | 0 | $0.00 | $0.00 |
| Alder (Red) | 0 | $0.00 | $0.00 |
| Maple | 0 | $0.00 | $0.00 |

**Unamortized**

| **Specie** | **MBF** | **Value** | **Total** |
|---|---|---|---|
| Douglas - Fir | 5,412 | $558.90 | $3,024,766.80 |
| Western Hemlock / Fir | 32 | $271.07 | $8,674.24 |
| Alder (Red) | 8 | $254.58 | $2,036.64 |
| Maple | 4 | $114.58 | $458.32 |

### Gross Timber Sale Value

**Recovery:** $3,035,936.00

**Prepared By:** Zane Sandborg

**Phone:** 503-781-7754

## Mashed Potatoes Timber Sale

### Project No. 1

**NEW CONSTRUCT:**

| | | Rocking | | | |
|---|---|---|---|---|---|
| Segments | Length | Pit-Run | 6"- 0" Jaw-Run | 1.5"- 0" | Total |
| Pt. A to Pt. A1 | 14+50 | 6 cy | 721 cy | 305 cy | $ 18,463.15 |
| Pt. B to Pt. B1 | 3+56 | | 223 cy | 67 cy | $ 4,160.80 |
| Pt. C to Pt. C1 | 2+61 | | 177 cy | 50 cy | $ 3,527.87 |
| Pt. D | 0+50 | | 30 cy | 10 cy | $ 932.20 |
| Total | 21+17 | 6 cy | 1,151 cy | 432 cy | $ 27,084.02 |
| Total Miles | 0.40 | | | | |

**Project No. 1** $ 27,084.02

### Project No. 2

**ROAD IMPROVEMENT:**

| Segments | Length/sites | Pit-Run | 6"- 0" Jaw-Run | 1.5"- 0" | Total |
|---|---|---|---|---|---|
| Pt. 1 to Pt. 2 | 74+00 | 3 cy | 131 cy | 627 cy | $ 9,996.41 |
| Pt. 1 to Pt. 5 | 76+60 | 6 cy | 48 cy | 1,755 cy | $ 21,659.79 |
| Pt.1 to Pt. 18 | 134+29 | 3 cy | | 24 cy | $ 5,047.06 |
| Pt. 3 to Pt. 4 | 33+37 | | 58 cy | 34 cy | $ 1,367.55 |
| Pt. 6 to Pt. 7 | 55+89 | | 36 cy | 1,250 cy | $ 11,769.03 |
| Pt. 8 to Pt. 9 | 17+62 | 3 cy | | 24 cy | $ 3,278.05 |
| Pt. 10 to Pt. 11 | 12+77 | | | | $ 319.25 |
| Pt. 12 to Pt. 13 | 54+64 | 9 cy | | 72 cy | $ 10,193.65 |
| Pt. 14 to Pt. 15 | 32+15 | 3 cy | | 24 cy | $ 3,781.30 |
| Pt. 16 to Pt. 17 | 13+83 | 6 cy | | 48 cy | $ 6,225.85 |
| Total | 505+16 | 33 cy | 273 cy | 3,858 cy | $ 73,637.94 |
| Total miles | 9.57 | | | | |

**Project No. 2** $ 73,637.94

### Project No. 3

**MOVE-IN:** $ 10,170.00

**Project No. 3** $ 10,170.00

| ROCK SUMMARY TABLE: | | | | |
|---|---|---|---|---|
| Location | Size of Rock | Needed for Roads | Stockpile | To Crushed |
| Bridge Creek Pit | 1 .5"-0" | 4,290 cy | 4,290 cy | none |
| Bridge Creek Pit | 6"- 0" Jaw-Run | 1,424 cy | 1,424 cy | none |
| Bridge Creek Pit | Pit- Run | 36 cy | 36 cy | none |

**GRAND TOTAL** **$ 110,891.96**

## PROJECT NO. 1

## NEW CONSTRUCTION

Sale: **Mashed Potatoes**

Road Segment: **Pt. A to Pt. A1**

NEW CONSTRUCT:

| | Station or Quantity | Designed Cubic Yards/Station | | | | Cost per Station or Acre | Sum $ |
|---|---|---|---|---|---|---|---|
| | | Pit-Run | 1.5"- 0" | 6"- 0" Jaw-Run | Dissipator | | |
| New construct | 14+50 | | 17 cy | 48 cy | | $ 300.00 | $ 4,350.00 |
| Truck Turnaround (sta. 8+77) | 1 | | 10 cy | 25 cy | | $ 125.00 | $ 125.00 |
| Landing | 1 | | | | | $ 600.00 | $ 600.00 |
| Culvert | 2 | 3 cy | 24 cy | | | | $ - |
| | | | | | | **SUB TOTAL** | $ 5,075.00 |

CULVERTS: (Cost includes hauling pipes)

| Description | Type | Size (inches) | Total Length (ft) | Cost | Bevel | Bands | Cost | Sub Total | Install $ | Sum $ |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 - 24" x 30' culvert | ACSP | 24 | 60 | $ 2,448.00 | | | 0.00 | $ 2,448.00 | $ 2,400.00 | $ 4,848.00 |
| | | | | | | | | | | $ 4,848.00 |

ACSP = aluminum corrigated steel pipe

| | Quantity | Cost | Sub Total | Install $/Hr | Labor Time | Sum $ |
|---|---|---|---|---|---|---|
| Mulch - 1- bale (2.5 tons/acre) | 3 | $ 15.00 | $ 45.00 | $ 60.00 | 0.25 | $ 60.00 |
| Grass Seed (1- lb) | 2 | $ 5.00 | $ 10.00 | $ 60.00 | 0.25 | $ 25.00 |
| Install 6' long steel "T" posts | 2 | $ 12.00 | $ 24.00 | $ 60.00 | 0.25 | $ 39.00 |
| Install outlet dissipator | 2 | | | $ 220.00 | 1 | $ 440.00 |
| | | | | | | $ 564.00 |
| | | | | | **SUB TOTAL** | $ 5,412.00 |

SURFACING:

| Roads | Landings | Roads | Turn Arounds | Two-way Junctions | Culvert Bedding | Dissipator (cy/pipe) | Total | Haul & Crush Combined $ | Cost |
|---|---|---|---|---|---|---|---|---|---|
| 1.5"- 0" | | 247 cy | 10 cy | | 48 cy | | 305 cy | $ 7.03 | $ 2,144.15 |
| 6"- 0" Jaw-Run | | 696 cy | 25 cy | | | | 721 cy | $ 7.48 | $ 5,788.02 |
| Pit-Run | | | | | | 6 cy | 6 cy | $ 7.33 | $ 43.98 |
| | | | | | | Total = | 1,032 cy | | |
| | | | | | | | | **SUB TOTAL** | $ 7,976.15 |

**GRAND TOTAL = $ 18,463.15**

## PROJECT NO. 1

## NEW CONSTRUCTION

Sale: **Mashed Potatoes** Road Segment: **Pt. B to Pt. B1**

NEW CONSTRUCT:

| | Station or Quantity | Designed Cubic Yards/Station | | | | Cost per Station or Acre | Sum $ |
|---|---|---|---|---|---|---|---|
| | | Pit-Run | 1.5"- 0" | 6"- 0" Jaw-Run | Dissipator | | |
| New construct | 3+56 | | 17 cy | 48 cy | | $ 300.00 | $ 1,068.00 |
| Two-way Junction | 1 | | 6 cy | 16 cy | | $ 75.00 | $ 75.00 |
| Landing | 1 | | | 36 cy | | $ 600.00 | $ 600.00 |

**SUB TOTAL** $ 1,743.00

CULVERTS: (Cost includes hauling pipes)

| Description | Type | Size (inches) | Total Length (ft) | Cost | Bevel | Bands | Cost | Sub Total | Install $ | Sum $ |
|---|---|---|---|---|---|---|---|---|---|---|
| | ACSP | | | $ - | | | 0.00 | $ - | | $ - |
| | | | | | | | | | | $ - |

ACSP = aluminum corrigated steel pipe

| | Quantity | Cost | Sub Total | Install $/Hr | Labor Time | Sum $ |
|---|---|---|---|---|---|---|
| Mulch - 1- bale (2.5 tons/acre) | | $ 15.00 | $ - | $ 60.00 | | $ - |
| Grass Seed (1- lb) | | $ 5.00 | $ - | $ 60.00 | | $ - |
| Install 6' long steel "T" posts | | $ 12.00 | $ - | $ 60.00 | | $ - |
| Install outlet dissipator | | | | $ 220.00 | | $ - |
| | | | | | | $ - |

**SUB TOTAL** $ -

SURFACING:

| Roads | Landings | Roads | Turn Arounds | Two-way Junctions | Culvert Bedding | Dissipator (cy/pipe) | Total | Haul & Crush Combined $ | Cost |
|---|---|---|---|---|---|---|---|---|---|
| 1.5"- 0" | | 61 cy | | 6 cy | | | 67 cy | $ 7.03 | $ 471.01 |
| 6"- 0" Jaw-Run | 36 cy | 171 cy | | 16 cy | | | 223 cy | $ 8.73 | $ 1,946.79 |
| | | | | | | Total = | 290 cy | | |

**SUB TOTAL** $ 2,417.80

**GRAND TOTAL = $ 4,160.80**

# PROJECT NO. 1

## NEW CONSTRUCTION

Sale: **Mashed Potatoes**

Road Segment: **Pt. C to Pt. C1**

NEW CONSTRUCT:

| | Station or | Designed Cubic Yards/Station | | | | Cost per | |
|---|---|---|---|---|---|---|---|
| | Quantity | Pit-Run | 1.5"- 0" | 6"- 0" Jaw-Run | Dissipator | Station or Acre | Sum $ |
| New construct | 2+61 | | 17 cy | 48 cy | | $ 300.00 | $ 783.00 |
| Two-way Junction | 1 | | 6 cy | 16 cy | | $ 75.00 | $ 75.00 |
| Landing | 1 | | | 36 cy | | $ 600.00 | $ 600.00 |
| Through-cut | 36 cy | | | | | $ 4.81 | $ 173.16 |

**SUB TOTAL** $ 1,631.16

CULVERTS: (Cost includes hauling pipes)

| Description | Type | Size (inches) | Total Length (ft) | Cost | Bevel | Bands | Cost | Sub Total | Install $ | Sum $ |
|---|---|---|---|---|---|---|---|---|---|---|
| | ACSP | | | $ - | | | 0.00 | $ - | | $ - |
| | | | | | | | | | | $ - |

ACSP = aluminum corrigated steel pipe

| | Quantity | Cost | Sub Total | Install $/Hr | Labor Time | Sum $ |
|---|---|---|---|---|---|---|
| Mulch - 1- bale (2.5 tons/acre) | | $ 15.00 | $ - | $ 60.00 | | $ - |
| Grass Seed (1- lb) | | $ 5.00 | $ - | $ 60.00 | | $ - |
| Install 6' long steel "T" posts | | $ 12.00 | $ - | $ 60.00 | | $ - |
| Install outlet dissipator | | | | $ 220.00 | | $ - |
| | | | | | | $ - |

**SUB TOTAL** $ -

SURFACING:

| Roads | Landings | Roads | Turn Arounds | Two-way Junctions | Culvert Bedding | Dissipator (cy/pipe) | Total | Haul & Crush Combined $ | Cost |
|---|---|---|---|---|---|---|---|---|---|
| 1.5"- 0" | | 44 cy | | 6 cy | | | 50 cy | $ 7.03 | $ 351.50 |
| 6"- 0" Jaw-Run | 36 cy | 125 cy | | 16 cy | | | 177 cy | $ 8.73 | $ 1,545.21 |
| | | | | | | Total = | 227 cy | | |

**SUB TOTAL** $ 1,896.71

**GRAND TOTAL = $ 3,527.87**

## PROJECT NO. 1

## NEW CONSTRUCTION

Sale: **Mashed Potatoes**

Road Segment: **Pt. D (sta. 20+58 Pt. 6 to Pt. 7)**

NEW CONSTRUCT:

|  | Station or Quantity | Designed Cubic Yards/Station |  |  |  | Cost per Station or Acre | Sum $ |
|---|---|---|---|---|---|---|---|
|  |  | Pit-Run | 1.5"- 0" | 6"- 0" Jaw-Run | Dissipator |  |  |
| Landing | 0+50 |  | 20 cy | 60 cy |  | $ 600.00 | $ 600.00 |

| | |
|---|---|
| **SUB TOTAL** | $ 600.00 |

CULVERTS: (Cost includes hauling pipes)

| Description | Type | Size (inches) | Total Length (ft) | Cost | Bevel | Bands | Cost | Sub Total | Install $ | Sum $ |
|---|---|---|---|---|---|---|---|---|---|---|
|  | ACSP |  |  | $ - |  |  | 0.00 | $ - |  | $ - |

ACSP = aluminum corrigated steel pipe

|  | Quantity | Cost | Sub Total | Install $/Hr | Labor Time | Sum $ |
|---|---|---|---|---|---|---|
| Mulch - 1- bale (2.5 tons/acre) |  | $ 15.00 | $ - | $ 60.00 |  | $ - |
| Grass Seed (1- lb) |  | $ 5.00 | $ - | $ 60.00 |  | $ - |
| Install 6' long steel "T" posts |  | $ 12.00 | $ - | $ 60.00 |  | $ - |
| Install outlet dissipator |  |  |  | $ 220.00 |  | $ - |
|  |  |  |  |  |  | $ - |

| | |
|---|---|
| **SUB TOTAL** | $ - |

SURFACING:

| Roads | Landings | Roads | Turn Arounds | Two-way Junctions | Culvert Bedding | Dissipator (cy/pipe) | Total | Haul & Crush Combined $ | Cost |
|---|---|---|---|---|---|---|---|---|---|
| 1.5"- 0" | 10 cy |  |  |  |  |  | 10 cy | $ 7.03 | $ 70.30 |
| 6"- 0" Jaw-Run | 30 cy |  |  |  |  |  | 30 cy | $ 8.73 | $ 261.90 |
|  |  |  |  |  |  | Total = | 40 cy |  |  |

| | |
|---|---|
| **SUB TOTAL** | $ 332.20 |

| | |
|---|---|
| **GRAND TOTAL =** | **$ 932.20** |

### PROJECT NO. 2

### ROAD IMPROVEMENT

Sale: **Mashed Potatoes**

Road Segment: **Pt. 1 to Pt. 2**

IMPROVEMENT:

| | Station or | Designed Cubic Yards/Station | | | | Cost per | |
|---|---|---|---|---|---|---|---|
| | Quantity | Pit-Run | 1.5"- 0" | 6"- 0" Jaw-Run | Dissipator | Station or Acre | Sum $ |
| Grade and compact potholes | 47+66 | | | | | $ 25.00 | $ 1,191.50 |
| Spread top rock sta 47+66 to sta. 74+00 | 26+34 | | 22 cy | | | | |
| Tree and Stump Removal | 1 | | | | | $ 50.00 | $ 50.00 |
| Truck Turnaround | 1 | | 24 cy | | | | |
| Culvert | 1 | 3 cy | 24 cy | | | | |
| Shape Road 71+28 to 74+00, spread 6"- 0" Jaw-Run | 2+72 | | | 48 cy | | $ 250.00 | $ 680.00 |

**SUB TOTAL** $ 1,921.50

CULVERTS: (Cost includes hauling pipes)

| Description | Type | Size | Total Length | Cost | Bevel | Bands | Cost | Sub Total | Install $ | Sum $ |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 - 24" x 30' | ACSP | 24 | 30 | $ 1,224.00 | | | | $ 1,224.00 | $ 1,200.00 | $ 2,424.00 |
| | | | | | | | | | | $ 2,424.00 |

ACSP = aluminum corrigated steel pipe

| | Quantity | Cost | Sub Total | Install $/Hr | Labor Time | Sum $ |
|---|---|---|---|---|---|---|
| Mulch - 2.5 tons/acre | 2 | $ 15.00 | $ 30.00 | $ 60.00 | 0.5 | $ 60.00 |
| Grass Seed (25 lb bag) | 1 | $ 5.00 | $ 5.00 | $ 60.00 | 0.25 | $ 20.00 |
| Install 6' long steel "T" posts | 1 | $ 8.00 | $ 8.00 | $ 60.00 | | $ 8.00 |
| Install outlet dissipator | 1 | $ 220.00 | | $ 220.00 | 0.5 | $ 110.00 |
| | | | | | | $ 198.00 |

**SUB TOTAL** $ 2,622.00

SURFACING:

| Roads | Landings | Roads | Turn Arounds | Two-way Junctions | Culvert Bedding | Dissipator (cy/pipe) | Total | Haul & Crush Combined $ | Cost |
|---|---|---|---|---|---|---|---|---|---|
| 1.5"- 0" | | 579 cy | 24 cy | | 24 cy | | 627 cy | $ 7.03 | $ 4,407.81 |
| 6"- 0" Jaw-Run | | 131 cy | | | | | 131 cy | $ 7.81 | $ 1,023.11 |
| Pit-Run | | | | | | 3 cy | 3 cy | $ 7.33 | $ 21.99 |
| | | | | | | Total = | 761 cy | | |

**SUB TOTAL** $ 5,452.91

**GRAND TOTAL = $ 9,996.41**

## PROJECT NO. 2

## ROAD IMPROVEMENT

Sale: **Mashed Potatoes**

Road Segment: **Pt. 1 to Pt. 5**

IMPROVEMENT:

| | Station or | Designed Cubic Yards/Station | | | | Cost per | |
|---|---|---|---|---|---|---|---|
| | Quantity | Pit-Run | 1.5"- 0" | 6"- 0" Jaw-Run | Dissipator | Station or Acre | Sum $ |
| Grade and compact potholes | 76+60 | | 22 cy | | | $ 25.00 | $ 1,915.00 |
| Truck Turnaround | 1 | | 22 cy | 48 cy | | $ 125.00 | $ 125.00 |
| Culvert | 2 | 3 cy | 24 cy | | | | |
| | 76+60 | | | | | | |
| | | | | | | **SUB TOTAL** | $ 2,040.00 |

CULVERTS: (Cost includes hauling pipes)

| Description | Type | Size | Total Length | Cost | Bevel | Bands | Cost | Sub Total | Install $ | Sum $ |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 - 24" x 30' | ACSP | 24 | 60 | $ 2,448.00 | | | | $ 2,448.00 | $ 2,400.00 | $ 4,848.00 |
| | | | | | | | | | | $ 4,848.00 |

ACSP = aluminum corrigated steel pipe

| | Quantity | Cost | Sub Total | Install $/Hr | Labor Time | Sum $ |
|---|---|---|---|---|---|---|
| Mulch - 2.5 tons/acre | 4 | $ 15.00 | $ 60.00 | $ 60.00 | 0.5 | $ 90.00 |
| Grass Seed (25 lb bag) | 2 | $ 5.00 | $ 10.00 | $ 60.00 | 0.25 | $ 25.00 |
| Install 6' long steel "T" posts | 2 | $ 8.00 | $ 16.00 | $ 60.00 | | $ 16.00 |
| Install outlet dissipator | 2 | $ 220.00 | | $ 220.00 | 0.5 | $ 220.00 |
| | | | | | | $ 351.00 |

| | |
|---|---|
| **SUB TOTAL** | $ 5,199.00 |

SURFACING:

| Roads | Landings | Roads | Turn Arounds | Two-way Junctions | Culvert Bedding | Dissipator (cy/pipe) | Total | Haul & Crush Combined $ | Cost |
|---|---|---|---|---|---|---|---|---|---|
| 1.5"- 0" | | 1,685 cy | 22 cy | | 48 cy | | 1,755 cy | $ 7.95 | $ 13,952.25 |
| 6"- 0" Jaw-Run | | | 48 cy | | | | 48 cy | $ 8.73 | $ 419.04 |
| Pit-Run | | | | | | 6 cy | 6 cy | $ 8.25 | $ 49.50 |
| | | | | | | Total = | 1,809 cy | | |
| | | | | | | | | **SUB TOTAL** | $ 14,420.79 |

| | |
|---|---|
| **GRAND TOTAL =** | **$ 21,659.79** |

## PROJECT NO. 2

## ROAD IMPROVEMENT

Sale: **Mashed Potatoes**

Road Segment: **Pt. 1 to Pt. 18**

IMPROVEMENT:

| | Station or Quantity | Designed Cubic Yards/Station Pit-Run | 1.5"- 0" | 6"- 0" Jaw-Run | Dissipator | Cost per Station or Acre | Sum $ | |
|---|---|---|---|---|---|---|---|---|
| Clean Ditches, Grade and compact potholes | 134+29 | | | | | $ 15.00 | $ 2,014.35 | |
| Culvert | 1 | | 24 cy | 3 cy | | $ 220.00 | $ 220.00 | |
| | | | | | | | **SUB TOTAL** | $ 2,234.35 |

CULVERTS: (Cost includes hauling pipes)

| Description | Type | Size | Total Length | Cost | Bevel | Bands | Cost | Sub Total | Install $ | Sum $ |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 - 24" x 30' | ACSP | 24 | 30 | $ 1,224.00 | | | | $ 1,224.00 | $ 1,200.00 | $ 2,424.00 |
| | | | | | | | | | | $ 2,424.00 |

ACSP = aluminum corrigated steel pipe

| | Quantity | Cost | Sub Total | Install $/Hr | Labor Time | Sum $ | |
|---|---|---|---|---|---|---|---|
| Mulch - 2.5 tons/acre | 2 | $ 15.00 | $ 30.00 | $ 60.00 | 0.5 | $ 60.00 | |
| Grass Seed (25 lb bag) | 1 | $ 5.00 | $ 5.00 | $ 60.00 | 0.25 | $ 20.00 | |
| Install 6' long steel "T" posts | 1 | $ 8.00 | $ 8.00 | $ 60.00 | | $ 8.00 | |
| Install outlet dissipator | 1 | $ 220.00 | | $ 220.00 | 0.5 | $ 110.00 | |
| | | | | | | $ 198.00 | |
| | | | | | | **SUB TOTAL** | $ 2,622.00 |

SURFACING:

| Roads | Landings | Roads | Turn Arounds | Two-way Junctions | Culvert Bedding | Dissipator (cy/pipe) | Total | Haul & Crush Combined $ | Cost | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1.5"- 0" | | | | | 24 cy | | 24 cy | $ 7.03 | $ 168.72 | |
| 6"- 0" Jaw-Run | | | | | | | cy | $ 7.81 | $ - | |
| Pit-Run | | | | | | 3 cy | 3 cy | $ 7.33 | $ 21.99 | |
| | | | | | | Total = | 27 cy | | | |
| | | | | | | | | | **SUB TOTAL** | $ 190.71 |

| | |
|---|---|
| **GRAND TOTAL =** | **$ 5,047.06** |

## PROJECT NO. 2

## ROAD IMPROVEMENT

Sale: **Mashed Potatoes**

Road Segment: **Pt. 3 to Pt. 4**

IMPROVEMENT:

| | Station or | Designed Cubic Yards/Station | | | | Cost per | |
|---|---|---|---|---|---|---|---|
| | Quantity | Pit-Run | 1.5"- 0" | 6"- 0" Jaw-Run | Dissipator | Station or Acre | Sum $ |
| Station | 33+37 | | | | | $ 15.00 | $ 500.55 |
| Truck Turnaround on left side at sta. 23+36 | 1 | | 10 cy | 22 cy | | $ 125.00 | $ 125.00 |
| Pt. 4 (Spread rock on right side of landing) | 1 | | 24 cy | 36 cy | | $ 50.00 | $ 50.00 |

**SUB TOTAL** $ 675.55

CULVERTS: (Cost includes hauling pipes)

| | | | Total | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Description | Type | Size | Length | Cost | Bevel | Bands | Cost | Sub Total | Install $ | Sum $ |
| | | | | | | | | | | $ - |
| | | | | | | | | | | $ - |

ACSP = aluminum corrigated steel pipe

| | Quantity | Cost | Sub Total | Install $/Hr | Labor Time | Sum $ |
|---|---|---|---|---|---|---|
| Mulch - 2.5 tons/acre | | $ 15.00 | $ - | $ 60.00 | | $ - |
| Grass Seed (25 lb bag) | | $ 5.00 | $ - | $ 60.00 | | $ - |
| Install 6' long steel "T" posts | | $ 8.00 | $ - | $ 60.00 | | $ - |
| Install outlet dissipator | | | | $ 220.00 | | $ - |
| | | | | | | $ - |

**SUB TOTAL** $ -

SURFACING:

| | | | Turn | Two-way | Culvert | Dissipator | | Haul & Crush | |
|---|---|---|---|---|---|---|---|---|---|
| Roads | Landings | Roads | Arounds | Junctions | Bedding | (cy/pipe) | Total | Combined $ | Cost |
| 1.5"- 0" | 24 cy | | 10 cy | | | | 34 cy | $ 7.03 | $ 239.02 |
| 6"- 0" Jaw-Run | 36 cy | | 22 cy | | | | 58 cy | $ 7.81 | $ 452.98 |
| | | | | | | Total = | 92 cy | | |

**SUB TOTAL** $ 692.00

**GRAND TOTAL = $ 1,367.55**

## PROJECT NO. 2

## ROAD IMPROVEMENT

Sale: **Mashed Potatoes**

Road Segment: **Pt. 6 to Pt. 7**

IMPROVEMENT:

| | Station or Quantity | Designed Cubic Yards/Station Pit-Run | 1.5"- 0" | 6"- 0" Jaw-Run | Dissipator | Cost per Station or Acre | Sum $ |
|---|---|---|---|---|---|---|---|
| Road Improvement | 55+89 | | 22 cy | | | $ 25.00 | $ 1,397.25 |
| Remove standing water in ditch (25+39 to 26+89) | 1 | | | | | $ 60.00 | $ 60.00 |
| Rock the existing landing at Pt. 7 | 0+50 | | 40 cy | 72 cy | | $ 120.00 | $ 60.00 |
| | | | | | | **SUB TOTAL** | $ 1,517.25 |

CULVERTS: (Cost includes hauling pipes)

| Description | Type | Size | Total Length | Cost | Bevel | Bands | Cost | Sub Total | Install $ | Sum $ |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | $ - |
| | | | | | | | | | | $ - |

ACSP = aluminum corrigated steel pipe

| | Quantity | Cost | Sub Total | Install $/Hr | Labor Time | Sum $ |
|---|---|---|---|---|---|---|
| Mulch - 2.5 tons/acre | | $ 15.00 | $ - | $ 60.00 | | $ - |
| Grass Seed (25 lb bag) | | $ 5.00 | $ - | $ 60.00 | | $ - |
| Install 6' long steel "T" posts | | $ 8.00 | $ - | $ 60.00 | | $ - |
| Install outlet dissipator | | | | $ 220.00 | | $ - |
| | | | | | | $ - |

| | |
|---|---|
| **SUB TOTAL** | $ - |

SURFACING:

| Roads | Landings | Roads | Turn Arounds | Two-way Junctions | Culvert Bedding | Dissipator (cy/pipe) | Total | Haul & Crush Combined $ | Cost |
|---|---|---|---|---|---|---|---|---|---|
| 1.5"- 0" | 20 cy | 1,230 cy | | | | | 1,250 cy | $ 7.95 | $ 9,937.50 |
| 6"- 0" Jaw-Run | 36 cy | | | | | | 36 cy | $ 8.73 | $ 314.28 |
| | | | | | | Total = | 1,286 cy | | |
| | | | | | | | | **SUB TOTAL** | $ 10,251.78 |

| | |
|---|---|
| **GRAND TOTAL =** | **$ 11,769.03** |

## PROJECT NO. 2

## ROAD IMPROVEMENT

Sale: **Mashed Potatoes**

Road Segment: **Pt. 8 to Pt. 9**

IMPROVEMENT:

| | Station or | Designed Cubic Yards/Station | | | | Cost per | |
|---|---|---|---|---|---|---|---|
| | Quantity | Pit-Run | 1.5"- 0" | 6"- 0" Jaw-Run | Dissipator | Station or Acre | Sum $ |
| Road Improvement | 17+62 | | | | | $ 25.00 | $ 440.50 |
| Culvert | 1 | | 24 cy | | 3 cy | | |
| | | | | | | **SUB TOTAL** | $ 440.50 |

CULVERTS: (Cost includes hauling pipes)

| | | | Total | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Description | Type | Size | Length | Cost | Bevel | Bands | Cost | Sub Total | Install $ | Sum $ |
| 1 x 24" x 30' | ACSP | 24 | 30 | $ 1,224.00 | | | | $ 1,224.00 | $ 1,200.00 | $ 2,424.00 |
| | | | | | | | | | | $ 2,424.00 |

ACSP = aluminum corrigated steel pipe

| | Quantity | Cost | Sub Total | Install $/Hr | Labor Time | Sum $ |
|---|---|---|---|---|---|---|
| Mulch - 2.5 tons/acre | 2 | $ 15.00 | $ 30.00 | $ 60.00 | 0.5 | $ 60.00 |
| Grass Seed (25 lb bag) | 1 | $ 5.00 | $ 5.00 | $ 60.00 | 0.25 | $ 20.00 |
| Install 6' long steel "T" posts | 1 | $ 8.00 | $ 8.00 | $ 60.00 | | $ 8.00 |
| Install outlet dissipator | 1 | | | $ 220.00 | 0.5 | $ 110.00 |
| | | | | | | $ 198.00 |

| | |
|---|---|
| **SUB TOTAL** | $ 2,622.00 |

SURFACING:

| | | | Turn | Two-way | Culvert | Dissipator | | Haul & Crush | |
|---|---|---|---|---|---|---|---|---|---|
| Roads | Landings | Roads | Arounds | Junctions | Bedding | (cy/pipe) | Total | Combined $ | Cost |
| 1.5"- 0" | | | | | 24 cy | | 24 cy | $ 7.95 | $ 190.80 |
| 6"- 0" Jaw-Run | | | | | | | | $ - | $ - |
| Pit-Run | | | | | | 3 cy | 3 cy | $ 8.25 | $ 24.75 |
| | | | | | | Total = | 27 cy | | |

| | |
|---|---|
| **SUB TOTAL** | $ 215.55 |

| | |
|---|---|
| **GRAND TOTAL =** | **$ 3,278.05** |

## PROJECT NO. 2

## ROAD IMPROVEMENT

Sale: **Mashed Potatoes**

Road Segment: **Pt. 10 to Pt. 11**

IMPROVEMENT:

| | Station or | Designed Cubic Yards/Station | | | | Cost per | | |
|---|---|---|---|---|---|---|---|---|
| | Quantity | Pit-Run | 1.5"- 0" | 6"- 0" Jaw-Run | Dissipator | Station or Acre | Sum $ | |
| Road Improvement | 12+77 | | | | | $ 25.00 | $ 319.25 | |
| | | | | | | | **SUB TOTAL** | $ 319.25 |

CULVERTS: (Cost includes hauling pipes)

| Description | Type | Size | Total Length | Cost | Bevel | Bands | Cost | Sub Total | Install $ | Sum $ |
|---|---|---|---|---|---|---|---|---|---|---|
| | ACSP | | | $ - | | | | $ - | | $ - |
| | | | | | | | | | | $ - |

ACSP = aluminum corrigated steel pipe

| | Quantity | Cost | Sub Total | Install $/Hr | Labor Time | Sum $ | |
|---|---|---|---|---|---|---|---|
| Mulch - 2.5 tons/acre | | $ 15.00 | $ - | $ 60.00 | | $ - | |
| Grass Seed (25 lb bag) | | $ 5.00 | $ - | $ 60.00 | | $ - | |
| Install 6' long steel "T" posts | | $ 8.00 | $ - | $ 60.00 | | $ - | |
| Install outlet dissipator | | | | $ 220.00 | | $ - | |
| | | | | | | $ - | |
| | | | | | | **SUB TOTAL** | $ - |

SURFACING:

| Roads | Landings | Roads | Turn Arounds | Two-way Junctions | Culvert Bedding | Dissipator (cy/pipe) | Total | Haul & Crush Combined $ | Cost | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1.5"- 0" | | | | | | | | $ 7.95 | $ - | |
| 6"- 0" Jaw-Run | | | | | | | | $ - | $ - | |
| Pit-Run | | | | | | | | $ 8.25 | $ - | |
| | | | | | | Total = | | | | |
| | | | | | | | | | **SUB TOTAL** | $ - |

| | |
|---|---|
| **GRAND TOTAL =** | **$ 319.25** |

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## PROJECT NO. 2

## ROAD IMPROVEMENT

Sale: **Mashed Potatoes** Road Segment: **Pt. 12 to Pt. 13**

IMPROVEMENT:

| | Station or | Designed Cubic Yards/Station | | | | Cost per | |
|---|---|---|---|---|---|---|---|
| | Quantity | Pit-Run | 1.5"- 0" | 6"- 0" Jaw-Run | Dissipator | Station or Acre | Sum $ |
| Road Improvement | 54+64 | | | | | $ 25.00 | $ 1,366.00 |
| Culverts | 3 | | 24 cy | | 3 cy | | |

**SUB TOTAL** $ 1,366.00

CULVERTS: (Cost includes hauling pipes)

| Description | Type | Size | Total Length | Cost | Bevel | Bands | Cost | Sub Total | Install $ | Sum $ |
|---|---|---|---|---|---|---|---|---|---|---|
| 3 - 24" x 30' | ACSP | 24 | 90 | $ 3,672.00 | | | | $ 3,672.00 | $ 3,600.00 | $ 7,272.00 |
| | | | | | | | | | | $ 7,272.00 |

ACSP = aluminum corrigated steel pipe

| | Quantity | Cost | Sub Total | Install $/Hr | Labor Time | Sum $ |
|---|---|---|---|---|---|---|
| Mulch - 2.5 tons/acre | 9 | $ 15.00 | $ 135.00 | $ 60.00 | 0.5 | $ 165.00 |
| Grass Seed (25 lb bag) | 3 | $ 5.00 | $ 15.00 | $ 60.00 | 0.25 | $ 30.00 |
| Install 6' long steel "T" posts | 3 | $ 8.00 | $ 24.00 | $ 60.00 | 0.5 | $ 54.00 |
| Install outlet dissipator | 3 | | | $ 220.00 | 1 | $ 660.00 |
| | | | | | | $ 909.00 |

**SUB TOTAL** $ 8,181.00

SURFACING:

| Roads | Landings | Roads | Turn Arounds | Two-way Junctions | Culvert Bedding | Dissipator (cy/pipe) | Total | Haul & Crush Combined $ | Cost |
|---|---|---|---|---|---|---|---|---|---|
| 1.5"- 0" | | | | | 72 cy | | 72 cy | $ 7.95 | $ 572.40 |
| 6"- 0" Jaw-Run | | | | | | | | $ - | $ - |
| Pit-Run | | | | | | 9 cy | 9 cy | $ 8.25 | $ 74.25 |
| | | | | | | Total = | 81 cy | | |

**SUB TOTAL** $ 646.65

**GRAND TOTAL = $ 10,193.65**

## PROJECT NO. 2

## ROAD IMPROVEMENT

Sale: **Mashed Potatoes**

Road Segment: **Pt. 14 to Pt. 15**

IMPROVEMENT:

| | Station or | Designed Cubic Yards/Station | | | | Cost per | |
|---|---|---|---|---|---|---|---|
| | Quantity | Pit-Run | 1.5"- 0" | 6"- 0" Jaw-Run | Dissipator | Station or Acre | Sum $ |
| Road Improvement | 32+15 | | | | | $ 25.00 | $ 803.75 |
| Culverts | 1 | | 24 cy | | 3 cy | | |
| | | | | | | **SUB TOTAL** | $ 803.75 |

CULVERTS: (Cost includes hauling pipes)

| Description | Type | Size | Total Length | Cost | Bevel | Bands | Cost | Sub Total | Install $ | Sum $ |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 - 24" x 30' | ACSP | 24 | 30 | $ 1,224.00 | | | | $ 1,224.00 | $ 1,200.00 | $ 2,424.00 |
| | | | | | | | | | | $ 2,424.00 |

ACSP = aluminum corrigated steel pipe

| | Quantity | Cost | Sub Total | Install $/Hr | Labor Time | Sum $ |
|---|---|---|---|---|---|---|
| Mulch - 2.5 tons/acre | 2 | $ 15.00 | $ 30.00 | $ 60.00 | 0.5 | $ 60.00 |
| Grass Seed (25 lb bag) | 1 | $ 5.00 | $ 5.00 | $ 60.00 | 0.25 | $ 20.00 |
| Install 6' long steel "T" posts | 1 | $ 8.00 | $ 8.00 | $ 60.00 | 0.5 | $ 38.00 |
| Install outlet dissipator | 1 | | | $ 220.00 | 1 | $ 220.00 |
| | | | | | | $ 338.00 |

| | |
|---|---|
| **SUB TOTAL** | $ 2,762.00 |

SURFACING:

| Roads | Landings | Roads | Turn Arounds | Two-way Junctions | Culvert Bedding | Dissipator (cy/pipe) | Total | Haul & Crush Combined $ | Cost |
|---|---|---|---|---|---|---|---|---|---|
| 1.5"- 0" | | | | | 24 cy | | 24 cy | $ 7.95 | $ 190.80 |
| 6"- 0" Jaw-Run | | | | | | | | $ - | $ - |
| Pit-Run | | | | | | 3 cy | 3 cy | $ 8.25 | $ 24.75 |
| | | | | | | Total = | 27 cy | | |
| | | | | | | | | **SUB TOTAL** | $ 215.55 |

| | |
|---|---|
| **GRAND TOTAL =** | **$ 3,781.30** |

## PROJECT NO. 2

## ROAD IMPROVEMENT

Sale: **Mashed Potatoes**

Road Segment: **Pt. 16 to Pt. 17**

IMPROVEMENT:

| | Station or Quantity | Designed Cubic Yards/Station | | | | Cost per Station or Acre | Sum $ |
|---|---|---|---|---|---|---|---|
| | | Pit-Run | 1.5"- 0" | 6"- 0" Jaw-Run | Dissipator | | |
| Road Improvement | 13+83 | | | | | $ 25.00 | $ 345.75 |
| Culverts | 2 | | 24 cy | | 3 cy | | |
| | | | | | | **SUB TOTAL** | $ 345.75 |

CULVERTS: (Cost includes hauling pipes)

| Description | Type | Size | Total Length | Cost | Bevel | Bands | Cost | Sub Total | Install $ | Sum $ |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 - 24" x 30' | ACSP | 24 | 60 | $ 2,448.00 | | | | $ 2,448.00 | $ 2,400.00 | $ 4,848.00 |
| | | | | | | | | | | $ 4,848.00 |

ACSP = aluminum corrigated steel pipe

| | Quantity | Cost | Sub Total | Install $/Hr | Labor Time | Sum $ |
|---|---|---|---|---|---|---|
| Mulch - 2.5 tons/acre | 4 | $ 15.00 | $ 60.00 | $ 60.00 | 0.5 | $ 90.00 |
| Grass Seed (25 lb bag) | 2 | $ 5.00 | $ 10.00 | $ 60.00 | 0.25 | $ 25.00 |
| Install 6' long steel "T" posts | 2 | $ 8.00 | $ 16.00 | $ 60.00 | 0.5 | $ 46.00 |
| Install outlet dissipator | 2 | | | $ 220.00 | 1 | $ 440.00 |
| | | | | | | $ 601.00 |
| | | | | | **SUB TOTAL** | $ 5,449.00 |

SURFACING:

| Roads | Landings | Roads | Turn Arounds | Two-way Junctions | Culvert Bedding | Dissipator (cy/pipe) | Total | Haul & Crush Combined $ | Cost |
|---|---|---|---|---|---|---|---|---|---|
| 1.5"- 0" | | | | | 48 cy | | 48 cy | $ 7.95 | $ 381.60 |
| 6"- 0" Jaw-Run | | | | | | | | $ - | $ - |
| Pit-Run | | | | | | 6 cy | 6 cy | $ 8.25 | $ 49.50 |
| | | | | | | Total = | 54 cy | | |
| | | | | | | | | **SUB TOTAL** | $ 431.10 |

| | |
|---|---|
| **GRAND TOTAL =** | **$ 6,225.85** |

## Mashed Potatoes (Sale Name)

| | | | | |
|---|---|---|---|---|
| Bridge Creek (Quarry) | | Bridge Creek (Stockpile) | | To CC200 Road |
| Jaw Run (Rock Type) | D10 (Truck) | | (Grader) | |
| **6"-0** (Rock Size) | Cat Exc (Loader) | | (Tractor) | |

**Hauling Time Computation**

| | | | | |
|---|---|---|---|---|
| 50 MPH | | Miles per round trip | 0.00 | Minutes |
| 40 MPH | | Miles per round trip | 0.00 | Minutes |
| 35 MPH | | Miles per round trip | 0.00 | Minutes |
| 30 MPH | | Miles per round trip | 0.00 | Minutes |
| 25 MPH | 2 | Miles per round trip | 4.80 | Minutes |
| 20 MPH | | Miles per round trip | 0.00 | Minutes |
| 15 MPH | 1.5 | Miles per round trip | 6.00 | Minutes |
| 10 MPH | | Miles per round trip | 0.00 | Minutes |
| 5 MPH | 0.15 | Miles per round trip | 1.80 | Minutes |
| | **3.65** | **Total Miles per Round Trip** | | |
| Dump or Spread Time per Round Trip | | | 0.25 | Minutes |
| Total Hauling Cycle Time for this Setting (100% Efficiency) | | | 12.85 | Minutes |
| Operator Efficiency Correction (80% Efficiency) | | | 16.06 | Minutes |

**Time Per Cubic Yard**

| | | |
|---|---|---|
| Hauling Only (per cubic yard) | 1.34 | min/cu.yd |
| Delay Time (while loading = loading time per cubic yard) | 0.52 | min/cu.yd |
| Total Time Per Cubic Yard | 1.86 | min/cu.yd |

| | | | |
|---|---|---|---|
| **Hauling Cost Per Cubic Yard Computation** | | | |
| Cost of Truck Per Hour | $ | 50.00 | per Hr. |
| Cost of Truck Operator Pre Hour | $ | 70.00 | per Hr. |
| Total Operating Cost Per Hour | $ | 120.00 | per Hr. |
| Operating Cost Per Minute | $ | 2.00 | per Min. |
| Cost Per Cubic Yard | **$** | **3.72** | per Cu. Yd. |
| **Loading Cost Per Cubic Yard** | **$** | **2.08** | per Cu. Yd. |
| **Placement Cost Per Cubic Yard** | | | |
| Cost of grader Per Hour | $ | 75.00 | per Hr. |
| Cost of Operator Per Hour | $ | 70.00 | per Hr. |
| Cost of Compaction Equip. Per Hour | $ | 75.00 | per Hr. |
| Cost of Compaction Equip. Op. Per Hour | $ | 70.00 | per Hr. |
| Total Operating Cost Per Hour | $ | 290.00 | per Hr. |
| Cost Per Cubic Yard to Place and Compact | **$** | **2.01** | Cu. Yd. |
| **Total Cost to Load, Haul and Place** | **$** | **7.81** | Cu. Yd. |
| **No Crushing Cost** | | | |
| **Grand Total Combined** | **$** | **7.81** | |

**Rates**

| Dump Truck | Rate ($/Hr.) | Capacity (cy) | Operator ($/Hr.) | Total |
|---|---|---|---|---|
| B20 | $ 70.00 | 20 | $ 70.00 | $ 140.00 |
| D10 | $ 50.00 | 12 | $ 70.00 | $ 120.00 |
| OH25 | $ 80.00 | 25 | $ 70.00 | $ 150.00 |

| Grader | Rate ($/Hr.) | Operator ($/Hr.) | Total |
|---|---|---|---|
| 12-G | $ 75.00 | $ 70.00 | $ 145.00 |
| 14-G | $ 95.00 | $ 70.00 | $ 165.00 |

| Compaction Equipment | Rate ($/Hr.) | Operator ($/Hr.) | Total |
|---|---|---|---|
| Vibratory Roller | $ 75.00 | $ 70.00 | $ 145.00 |
| Vib. Grid Roller | $ 75.00 | $ 70.00 | $ 145.00 |
| Hand Held Compactor | $ 15.00 | $ 70.00 | $ 85.00 |

| Tractors | Rate ($/Hr.) | Operator ($/Hr.) | Total |
|---|---|---|---|
| D4 | $ 60.00 | $ 70.00 | $ 130.00 |
| D6 | $ 100.00 | $ 70.00 | $ 170.00 |
| D7 | $ 125.00 | $ 70.00 | $ 195.00 |
| D8 | $ 150.00 | $ 70.00 | $ 220.00 |

| Loader/Excavator | Rate ($/Hr.) | Capacity (cy) | Operator ($/Hr.) | Total |
|---|---|---|---|---|
| 14G Cat Wheel Loader | $ 80.00 | 3 | $ 70.00 | $ 150.00 |
| Cat Excavator | $ 150.00 | 3 | $ 70.00 | $ 220.00 |

| Loading Costs | Rate (Min/Load) | Delay (Min) | Total Loading Time (Min) |
|---|---|---|---|
| Crushed Rock | 5 | 1.25 | 6.25 |
| Pit-Run/Jaw-Run Rock | 5 | 5.00 | 10 |
| Rip Rap Rock | 10 | 2.50 | 12.5 |
| Fill Material | 5 | 1.25 | 6.25 |
| Reclaim Rock | 5 | 1.25 | 20 |

| Dump or Spread Time (Min) | |
|---|---|
| Pile Dump | 0.25 |
| Truck Spread | 2 |
| Spreading w/Grader | 5 |
| Placement of Rip Rap | 10 |

2

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**Mashed Potatoes** (Sale Name)

Bridge Creek (Quarry) Bridge Creek (Stockpile) To CC500 Road
Jaw Run (Rock Type) D10 (Truck) (Grader)
**6"-0** (Rock Size) Cat Exc (Loader) (Tractor)

**Hauling Time Computation**

| | | | | |
|---|---|---|---|---|
| 50 MPH | | Miles per round trip | 0.00 | Minutes |
| 40 MPH | | Miles per round trip | 0.00 | Minutes |
| 35 MPH | | Miles per round trip | 0.00 | Minutes |
| 30 MPH | | Miles per round trip | 0.00 | Minutes |
| 25 MPH | 3.85 | Miles per round trip | 9.24 | Minutes |
| 20 MPH | | Miles per round trip | 0.00 | Minutes |
| 15 MPH | 1.5 | Miles per round trip | 6.00 | Minutes |
| 10 MPH | | Miles per round trip | 0.00 | Minutes |
| 5 MPH | 0.15 | Miles per round trip | 1.80 | Minutes |
| | **5.50** | **Total Miles per Round Trip** | | |
| Dump or Spread Time per Round Trip | | | 0.25 | Minutes |
| Total Hauling Cycle Time for this Setting (100% Efficiency) | | | 17.29 | Minutes |
| Operator Efficiency Correction (80% Efficiency) | | | 21.61 | Minutes |

**Time Per Cubic Yard**

| | | |
|---|---|---|
| Hauling Only (per cubic yard) | 1.80 | min/cu.yd |
| Delay Time (while loading = loading time per cubic yard) | 0.52 | min/cu.yd |
| Total Time Per Cubic Yard | 2.32 | min/cu.yd |

**Hauling Cost Per Cubic Yard Computation**

| | | |
|---|---|---|
| Cost of Truck Per Hour | $ 50.00 | per Hr. |
| Cost of Truck Operator Pre Hour | $ 70.00 | per Hr. |
| Total Operating Cost Per Hour | $ 120.00 | per Hr. |
| Operating Cost Per Minute | $ 2.00 | per Min. |
| Cost Per Cubic Yard | **$ 4.64** | per Cu. Yd. |
| **Loading Cost Per Cubic Yard** | **$ 2.08** | per Cu. Yd. |
| **Placement Cost Per Cubic Yard** | | |
| Cost of grader Per Hour | $ 75.00 | per Hr. |
| Cost of Operator Per Hour | $ 70.00 | per Hr. |
| Cost of Compaction Equip. Per Hour | $ 75.00 | per Hr. |
| Cost of Compaction Equip. Op. Per Hour | $ 70.00 | per Hr. |
| Total Operating Cost Per Hour | $ 290.00 | per Hr. |
| Cost Per Cubic Yard to Place and Compact | **$ 2.01** | Cu. Yd. |
| **Total Cost to Load, Haul and Place** | **$ 8.73** | Cu. Yd. |
| **No Crushing Cost** | | |
| **Grand Total Combined** | **$ 8.73** | |

**Rates**

| **Dump Truck** | **Rate ($/Hr.)** | **Capacity (cy)** | **Operator ($/Hr.)** | **Total** |
|---|---|---|---|---|
| B20 | $ 70.00 | 20 | $ 70.00 | $ 140.00 |
| D10 | $ 50.00 | 12 | $ 70.00 | $ 120.00 |
| OH25 | $ 80.00 | 25 | $ 70.00 | $ 150.00 |

| **Grader** | **Rate ($/Hr.)** | **Operator ($/Hr.)** | **Total** |
|---|---|---|---|
| 12-G | $ 75.00 | $ 70.00 | $ 145.00 |
| 14-G | $ 95.00 | $ 70.00 | $ 165.00 |

| **Compaction Equipment** | **Rate ($/Hr.)** | **Operator ($/Hr.)** | **Total** |
|---|---|---|---|
| Vibratory Roller | $ 75.00 | $ 70.00 | $ 145.00 |
| Vib. Grid Roller | $ 75.00 | $ 70.00 | $ 145.00 |
| Hand Held Compactor | $ 15.00 | $ 70.00 | $ 85.00 |

| **Tractors** | **Rate ($/Hr.)** | **Operator ($/Hr.)** | **Total** |
|---|---|---|---|
| D4 | $ 60.00 | $ 70.00 | $ 130.00 |
| D6 | $ 100.00 | $ 70.00 | $ 170.00 |
| D7 | $ 125.00 | $ 70.00 | $ 195.00 |
| D8 | $ 150.00 | $ 70.00 | $ 220.00 |

| **Loader/Excavator** | **Rate ($/Hr.)** | **Capacity (cy)** | **Operator ($/Hr.)** | **Total** |
|---|---|---|---|---|
| 14G Cat Wheel Loader | $ 80.00 | 3 | $ 70.00 | $ 150.00 |
| Cat Excavator | $ 150.00 | 3 | $ 70.00 | $ 220.00 |

| **Loading Costs** | **Rate (Min/Load)** | **Delay (Min)** | **Total Loading Time (Min)** |
|---|---|---|---|
| Crushed Rock | 5 | 1.25 | 6.25 |
| Pit-Run/Jaw-Run Rock | 5 | 5.00 | 10 |
| Rip Rap Rock | 10 | 2.50 | 12.5 |
| Fill Material | 5 | 1.25 | 6.25 |
| Reclaim Rock | 5 | 1.25 | 20 |

| **Dump or Spread Time (Min)** | |
|---|---|
| Pile Dump | 0.25 |
| Truck Spread | 2 |
| Spreading w/Grader | 5 |
| Placement of Rip Rap | 10 |

James Stuart 04/23/2026

**Mashed Potatoes** (Sale Name)

Bridge Creek (Quarry) Bridge Creek (Stockpile) To CC200 Road
Pit-Run (Rock Type) D10 (Truck) (Grader)
**8"+** (Rock Size) Cat Exc (Loader) (Tractor)

**Hauling Time Computation**

| | | | | |
|---|---|---|---|---|
| 50 MPH | | Miles per round trip | 0.00 | Minutes |
| 40 MPH | | Miles per round trip | 0.00 | Minutes |
| 35 MPH | | Miles per round trip | 0.00 | Minutes |
| 30 MPH | | Miles per round trip | 0.00 | Minutes |
| 25 MPH | 2 | Miles per round trip | 4.80 | Minutes |
| 20 MPH | | Miles per round trip | 0.00 | Minutes |
| 15 MPH | 1.5 | Miles per round trip | 6.00 | Minutes |
| 10 MPH | | Miles per round trip | 0.00 | Minutes |
| 5 MPH | 0.15 | Miles per round trip | 1.80 | Minutes |
| | **3.65** | **Total Miles per Round Trip** | | |
| Dump or Spread Time per Round Trip | | | 0.25 | Minutes |
| Total Hauling Cycle Time for this Setting (100% Efficiency) | | | 12.85 | Minutes |
| Operator Efficiency Correction (80% Efficiency) | | | 16.06 | Minutes |

**Time Per Cubic Yard**

| | | |
|---|---|---|
| Hauling Only (per cubic yard) | 1.34 | min/cu.yd |
| Delay Time (while loading = loading time per cubic yard) | 0.52 | min/cu.yd |
| Total Time Per Cubic Yard | 1.86 | min/cu.yd |

| | | | |
|---|---|---|---|
| **Hauling Cost Per Cubic Yard Computation** | | | |
| Cost of Truck Per Hour | $ | 50.00 | per Hr. |
| Cost of Truck Operator Pre Hour | $ | 70.00 | per Hr. |
| Total Operating Cost Per Hour | $ | 120.00 | per Hr. |
| Operating Cost Per Minute | $ | 2.00 | per Min. |
| Cost Per Cubic Yard | **$** | **3.72** | per Cu. Yd. |
| **Loading Cost Per Cubic Yard** | **$** | **2.08** | per Cu. Yd. |
| **Placement Cost Per Cubic Yard** | | | |
| Cost of excavator Per Hour | $ | 150.00 | per Hr. |
| Cost of Operator Per Hour | $ | 70.00 | per Hr. |
| Cost of Compaction Equip. Per Hour | $ | - | per Hr. |
| Cost of Compaction Equip. Op. Per Hour | $ | - | per Hr. |
| Total Operating Cost Per Hour | $ | 220.00 | per Hr. |
| Cost Per Cubic Yard to Place and Compact | **$** | **1.53** | Cu. Yd. |
| **Total Cost to Load, Haul and Place** | **$** | **7.33** | Cu. Yd. |
| **No Crushing Cost** | **$** | **-** | |
| **Grand Total Combined** | **$** | **7.33** | |

**Rates**

| **Dump Truck** | **Rate ($/Hr.)** | **Capacity (cy)** | **Operator ($/Hr.)** | **Total** |
|---|---|---|---|---|
| B20 | $ 70.00 | 20 | $ 70.00 | $ 140.00 |
| D10 | $ 50.00 | 12 | $ 70.00 | $ 120.00 |
| OH25 | $ 80.00 | 25 | $ 70.00 | $ 150.00 |
| **Grader** | **Rate ($/Hr.)** | | **Operator ($/Hr.)** | **Total** |
| 12-G | $ 75.00 | | $ 70.00 | $ 145.00 |
| 14-G | $ 95.00 | | $ 70.00 | $ 165.00 |
| **Compaction Equipment** | **Rate ($/Hr.)** | | **Operator ($/Hr.)** | **Total** |
| Vibratory Roller | $ 75.00 | | $ 70.00 | $ 145.00 |
| Vib. Grid Roller | $ 75.00 | | $ 70.00 | $ 145.00 |
| Hand Held Compactor | $ 15.00 | | $ 70.00 | $ 85.00 |
| **Tractors** | **Rate ($/Hr.)** | | **Operator ($/Hr.)** | **Total** |
| D4 | $ 60.00 | | $ 70.00 | $ 130.00 |
| D6 | $ 100.00 | | $ 70.00 | $ 170.00 |
| D7 | $ 125.00 | | $ 70.00 | $ 195.00 |
| D8 | $ 150.00 | | $ 70.00 | $ 220.00 |
| **Loader/Excavator** | **Rate ($/Hr.)** | **Capacity (cy)** | **Operator ($/Hr.)** | **Total** |
| 14G Cat Wheel Loader | $ 80.00 | 3 | $ 70.00 | $ 150.00 |
| Cat Excavator | $ 150.00 | 3 | $ 70.00 | $ 220.00 |

| **Loading Costs** | **Rate (Min/Load)** | **Delay (Min)** | **Total Loading Time (Min)** |
|---|---|---|---|
| Crushed Rock | 5 | 1.25 | 6.25 |
| Pit-Run/Jaw-Run Rock | 5 | 5.00 | 10 |
| Rip Rap Rock | 10 | 2.50 | 12.5 |
| Fill Material | 5 | 1.25 | 6.25 |
| Reclaim Rock | 5 | 1.25 | 20 |

| **Dump or Spread Time (Min)** | |
|---|---|
| Pile Dump | 0.25 |
| Truck Spread | 2 |
| Spreading w/Grader | 5 |
| Placement of Rip Rap | 10 |

2

## Mashed Potatoes (Sale Name)

Bridge Creek (Quarry) Bridge Creek (Stockpile) To CC500 Road
Pit-Run (Rock Type) D10 (Truck) (Grader)
8"+ (Rock Size) Cat Exc (Loader) (Tractor)

**Hauling Time Computation**

| | | | | |
|---|---|---|---|---|
| 50 MPH | | Miles per round trip | 0.00 | Minutes |
| 40 MPH | | Miles per round trip | 0.00 | Minutes |
| 35 MPH | | Miles per round trip | 0.00 | Minutes |
| 30 MPH | | Miles per round trip | 0.00 | Minutes |
| 25 MPH | 3.85 | Miles per round trip | 9.24 | Minutes |
| 20 MPH | | Miles per round trip | 0.00 | Minutes |
| 15 MPH | 1.5 | Miles per round trip | 6.00 | Minutes |
| 10 MPH | | Miles per round trip | 0.00 | Minutes |
| 5 MPH | 0.15 | Miles per round trip | 1.80 | Minutes |
| | **5.50** | **Total Miles per Round Trip** | | |
| Dump or Spread Time per Round Trip | | | 0.25 | Minutes |
| Total Hauling Cycle Time for this Setting (100% Efficiency) | | | 17.29 | Minutes |
| Operator Efficiency Correction (80% Efficiency) | | | 21.61 | Minutes |

**Time Per Cubic Yard**

| | | |
|---|---|---|
| Hauling Only (per cubic yard) | 1.80 | min/cu.yd |
| Delay Time (while loading = loading time per cubic yard) | 0.52 | min/cu.yd |
| Total Time Per Cubic Yard | 2.32 | min/cu.yd |

| | | |
|---|---|---|
| **Hauling Cost Per Cubic Yard Computation** | | |
| Cost of Truck Per Hour | $ 50.00 | per Hr. |
| Cost of Truck Operator Pre Hour | $ 70.00 | per Hr. |
| Total Operating Cost Per Hour | $ 120.00 | per Hr. |
| Operating Cost Per Minute | $ 2.00 | per Min. |
| Cost Per Cubic Yard | **$ 4.64** | per Cu. Yd. |
| **Loading Cost Per Cubic Yard** | **$ 2.08** | per Cu. Yd. |
| **Placement Cost Per Cubic Yard** | | |
| Cost of excavator Per Hour | $ 150.00 | per Hr. |
| Cost of Operator Per Hour | $ 70.00 | per Hr. |
| Cost of Compaction Equip. Per Hour | $ - | per Hr. |
| Cost of Compaction Equip. Op. Per Hour | $ - | per Hr. |
| Total Operating Cost Per Hour | $ 220.00 | per Hr. |
| Cost Per Cubic Yard to Place and Compact | **$ 1.53** | Cu. Yd. |
| **Total Cost to Load, Haul and Place** | **$ 8.25** | Cu. Yd. |
| **No Crushing Cost** | **$ -** | |
| **Grand Total Combined** | **$ 8.25** | |

### Rates

| Dump Truck | Rate ($/Hr.) | Capacity (cy) | Operator ($/Hr.) | Total |
|---|---|---|---|---|
| B20 | $ 70.00 | 20 | $ 70.00 | $ 140.00 |
| D10 | $ 50.00 | 12 | $ 70.00 | $ 120.00 |
| OH25 | $ 80.00 | 25 | $ 70.00 | $ 150.00 |

| Grader | Rate ($/Hr.) | Operator ($/Hr.) | Total |
|---|---|---|---|
| 12-G | $ 75.00 | $ 70.00 | $ 145.00 |
| 14-G | $ 95.00 | $ 70.00 | $ 165.00 |

| Compaction Equipment | Rate ($/Hr.) | Operator ($/Hr.) | Total |
|---|---|---|---|
| Vibratory Roller | $ 75.00 | $ 70.00 | $ 145.00 |
| Vib. Grid Roller | $ 75.00 | $ 70.00 | $ 145.00 |
| Hand Held Compactor | $ 15.00 | $ 70.00 | $ 85.00 |

| Tractors | Rate ($/Hr.) | Operator ($/Hr.) | Total |
|---|---|---|---|
| D4 | $ 60.00 | $ 70.00 | $ 130.00 |
| D6 | $ 100.00 | $ 70.00 | $ 170.00 |
| D7 | $ 125.00 | $ 70.00 | $ 195.00 |
| D8 | $ 150.00 | $ 70.00 | $ 220.00 |

| Loader/Excavator | Rate ($/Hr.) | Capacity (cy) | Operator ($/Hr.) | Total |
|---|---|---|---|---|
| 14G Cat Wheel Loader | $ 80.00 | 3 | $ 70.00 | $ 150.00 |
| Cat Excavator | $ 150.00 | 3 | $ 70.00 | $ 220.00 |

| Loading Costs | Rate (Min/Load) | Delay (Min) | Total Loading Time (Min) |
|---|---|---|---|
| Crushed Rock | 5 | 1.25 | 6.25 |
| Pit-Run/Jaw-Run Rock | 5 | 5.00 | 10 |
| Rip Rap Rock | 10 | 2.50 | 12.5 |
| Fill Material | 5 | 1.25 | 6.25 |
| Reclaim Rock | 5 | 1.25 | 20 |

| Dump or Spread Time (Min) | |
|---|---|
| Pile Dump | 0.25 |
| Truck Spread | 2 |
| Spreading w/Grader | 5 |
| Placement of Rip Rap | 10 |

## Mashed Potatoes (Sale Name)

| | | | | | | |
|---|---|---|---|---|---|---|
| Bridge Creek | (Quarry) | Bridge Creek | (Stockpile) | CC200 Road | | |
| Crushed | (Rock Type) | D10 | (Truck) | 12-G | (Grader) | Vibratory Roller (Compactor) |
| **1.5"- 0"** | (Rock Size) | 14G | (Loader) | D8 | (Tractor) | |

**Hauling Time Computation**

| | | | | |
|---|---|---|---|---|
| 50 MPH | | Miles per round trip | 0.00 | Minutes |
| 40 MPH | | Miles per round trip | 0.00 | Minutes |
| 35 MPH | | Miles per round trip | 0.00 | Minutes |
| 30 MPH | | Miles per round trip | 0.00 | Minutes |
| 25 MPH | 2 | Miles per round trip | 4.80 | Minutes |
| 20 MPH | | Miles per round trip | 0.00 | Minutes |
| 15 MPH | 1.5 | Miles per round trip | 6.00 | Minutes |
| 10 MPH | | Miles per round trip | 0.00 | Minutes |
| 5 MPH | 0.15 | Miles per round trip | 1.80 | Minutes |
| | **3.65** | **Total Miles per Round Trip** | | |
| Dump or Spread Time per Round Trip | | | 0.25 | Minutes |
| Total Hauling Cycle Time for this Setting (100% Efficiency) | | | 12.85 | Minutes |
| Operator Efficiency Correction (80% Efficiency) | | | 16.06 | Minutes |

**Time Per Cubic Yard**

| | | |
|---|---|---|
| Hauling Only (per cubic yard) | 1.34 | min/cu.yd |
| Delay Time (while loading = loading time per cubic yard) | 0.52 | min/cu.yd |
| Total Time Per Cubic Yard | 1.86 | min/cu.yd |

**Hauling Cost Per Cubic Yard Computation**

| | | | |
|---|---|---|---|
| Cost of Truck Per Hour | $ | 50.00 | per Hr. |
| Cost of Truck Operator Pre Hour | $ | 70.00 | per Hr. |
| Total Operating Cost Per Hour | $ | 120.00 | per Hr. |
| Operating Cost Per Minute | $ | 2.00 | per Min. |
| Cost Per Cubic Yard | **$** | **3.72** | per Cu. Yd. |
| **Loading Cost Per Cubic Yard** | **$** | **1.30** | per Cu. Yd. |
| **Spreading Cost Per Cubic Yard** | | | |
| Cost of Grader Per Hour | $ | 75.00 | per Hr. |
| Cost of Grader Operator Per Hour | $ | 70.00 | per Hr. |
| Cost of Compaction Equip. Per Hour | $ | 75.00 | per Hr. |
| Cost of Compaction Equip. Op. Per Hour | $ | 70.00 | per Hr. |
| Total Operating Cost Per Hour | $ | 290.00 | per Hr. |
| Cost Per Cubic Yard to Grade and Roll | **$** | **2.01** | Cu. Yd. |
| **Total Cost to Load, Haul and Place** | **$** | **7.03** | Cu. Yd. |
| **No Crushing Cost** | **$** | **-** | |
| **Grand Total Combined** | **$** | **7.03** | |

### Rates

| Dump Truck | Rate ($/Hr.) | Capacity (cy) | Operator ($/Hr.) | Total |
|---|---|---|---|---|
| B20 | $ 70.00 | 20 | $ 70.00 | $ 140.00 |
| D10 | $ 50.00 | 12 | $ 70.00 | $ 120.00 |
| OH25 | $ 80.00 | 25 | $ 70.00 | $ 150.00 |

| Grader | Rate ($/Hr.) | Operator ($/Hr.) | Total |
|---|---|---|---|
| 12-G | $ 75.00 | $ 70.00 | $ 145.00 |
| 14-G | $ 95.00 | $ 70.00 | $ 165.00 |

| Compaction Equipment | Rate ($/Hr.) | Operator ($/Hr.) | Total |
|---|---|---|---|
| Vibratory Roller | $ 75.00 | $ 70.00 | $ 145.00 |
| Vib. Grid Roller | $ 75.00 | $ 70.00 | $ 145.00 |
| Hand Held Compactor | $ 15.00 | $ 70.00 | $ 85.00 |

| Tractors | Rate ($/Hr.) | Operator ($/Hr.) | Total |
|---|---|---|---|
| D4 | $ 60.00 | $ 70.00 | $ 130.00 |
| D6 | $ 100.00 | $ 70.00 | $ 170.00 |
| D7 | $ 125.00 | $ 70.00 | $ 195.00 |
| D8 | $ 150.00 | $ 70.00 | $ 220.00 |

| Loader | Rate ($/Hr.) | Capacity (cy) | Operator ($/Hr.) | Total |
|---|---|---|---|---|
| 14G Cat Wheel Loader | $ 80.00 | 3 | $ 70.00 | $ 150.00 |
| Cat Excavator | $ 150.00 | 3 | $ 70.00 | $ 220.00 |

| Loading Costs | Rate (Min/Load) | Delay (Min) | Total Loading Time (Min) |
|---|---|---|---|
| Crushed Rock | 5 | 1.25 | 6.25 |
| Pit-Run/Jaw-Run Rock | 5 | 5.00 | 10 |
| Rip Rap Rock | 10 | 2.50 | 12.5 |
| Fill Material | 5 | 1.25 | 6.25 |
| Reclaim Rock | 5 | 1.25 | 20 |

| Dump or Spread Time (Min) | |
|---|---|
| Pile Dump | 0.25 |
| Truck Spread | 2 |
| Spreading w/Grader | 5 |
| Place Rip Rap | 10 |

## Mashed Potatoes (Sale Name)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Bridge Creek | (Quarry) | Bridge Creek | | (Stockpile) | | CC500 Road | |
| Crushed | (Rock Type) | D10 | (Truck) | 12-G | (Grader) | Vibratory Roller | (Compactor) |
| **1.5"- 0"** | (Rock Size) | 14G | (Loader) | D8 | (Tractor) | | |

**Hauling Time Computation**

| | | | | |
|---|---|---|---|---|
| 50 MPH | | Miles per round trip | 0.00 | Minutes |
| 40 MPH | | Miles per round trip | 0.00 | Minutes |
| 35 MPH | | Miles per round trip | 0.00 | Minutes |
| 30 MPH | | Miles per round trip | 0.00 | Minutes |
| 25 MPH | 3.85 | Miles per round trip | 9.24 | Minutes |
| 20 MPH | | Miles per round trip | 0.00 | Minutes |
| 15 MPH | 1.5 | Miles per round trip | 6.00 | Minutes |
| 10 MPH | | Miles per round trip | 0.00 | Minutes |
| 5 MPH | 0.15 | Miles per round trip | 1.80 | Minutes |
| | **5.5** | **Total Miles per Round Trip** | | |
| Dump or Spread Time per Round Trip | | | 0.25 | Minutes |
| Total Hauling Cycle Time for this Setting (100% Efficiency) | | | 17.29 | Minutes |
| Operator Efficiency Correction (80% Efficiency) | | | 21.61 | Minutes |

**Time Per Cubic Yard**

| | | |
|---|---|---|
| Hauling Only (per cubic yard) | 1.80 | min/cu.yd |
| Delay Time (while loading = loading time per cubic yard) | 0.52 | min/cu.yd |
| Total Time Per Cubic Yard | 2.32 | min/cu.yd |

**Hauling Cost Per Cubic Yard Computation**

| | | | |
|---|---|---|---|
| Cost of Truck Per Hour | $ | 50.00 | per Hr. |
| Cost of Truck Operator Pre Hour | $ | 70.00 | per Hr. |
| Total Operating Cost Per Hour | $ | 120.00 | per Hr. |
| Operating Cost Per Minute | $ | 2.00 | per Min. |
| Cost Per Cubic Yard | **$** | **4.64** | per Cu. Yd. |
| **Loading Cost Per Cubic Yard** | **$** | **1.30** | per Cu. Yd. |
| **Spreading Cost Per Cubic Yard** | | | |
| Cost of Grader Per Hour | $ | 75.00 | per Hr. |
| Cost of Grader Operator Per Hour | $ | 70.00 | per Hr. |
| Cost of Compaction Equip. Per Hour | $ | 75.00 | per Hr. |
| Cost of Compaction Equip. Op. Per Hour | $ | 70.00 | per Hr. |
| Total Operating Cost Per Hour | $ | 290.00 | per Hr. |
| Cost Per Cubic Yard to Grade and Roll | **$** | **2.01** | Cu. Yd. |
| **Total Cost to Load, Haul and Place** | **$** | **7.95** | Cu. Yd. |
| **No Crushing Cost** | **$** | **-** | |
| **Grand Total Combined** | **$** | **7.95** | |

**Rates**

| Dump Truck | Rate ($/Hr.) | Capacity (cy) | Operator ($/Hr.) | Total |
|---|---|---|---|---|
| B20 | $ 70.00 | 20 | $ 70.00 | $ 140.00 |
| D10 | $ 50.00 | 12 | $ 70.00 | $ 120.00 |
| OH25 | $ 80.00 | 25 | $ 70.00 | $ 150.00 |

| Grader | Rate ($/Hr.) | Operator ($/Hr.) | Total |
|---|---|---|---|
| 12-G | $ 75.00 | $ 70.00 | $ 145.00 |
| 14-G | $ 95.00 | $ 70.00 | $ 165.00 |

| Compaction Equipment | Rate ($/Hr.) | Operator ($/Hr.) | Total |
|---|---|---|---|
| Vibratory Roller | $ 75.00 | $ 70.00 | $ 145.00 |
| Vib. Grid Roller | $ 75.00 | $ 70.00 | $ 145.00 |
| Hand Held Compactor | $ 15.00 | $ 70.00 | $ 85.00 |

| Tractors | Rate ($/Hr.) | Operator ($/Hr.) | Total |
|---|---|---|---|
| D4 | $ 60.00 | $ 70.00 | $ 130.00 |
| D6 | $ 100.00 | $ 70.00 | $ 170.00 |
| D7 | $ 125.00 | $ 70.00 | $ 195.00 |
| D8 | $ 150.00 | $ 70.00 | $ 220.00 |

| Loader | Rate ($/Hr.) | Capacity (cy) | Operator ($/Hr.) | Total |
|---|---|---|---|---|
| 14G Cat Wheel Loader | $ 80.00 | 3 | $ 70.00 | $ 150.00 |
| Cat Excavator | $ 150.00 | 3 | $ 70.00 | $ 220.00 |

| Loading Costs | Rate (Min/Load) | Delay (Min) | Total Loading Time (Min) |
|---|---|---|---|
| Crushed Rock | 5 | 1.25 | 6.25 |
| Pit-Run/Jaw-Run Rock | 5 | 5.00 | 10 |
| Rip Rap Rock | 10 | 2.50 | 12.5 |
| Fill Material | 5 | 1.25 | 6.25 |
| Reclaim Rock | 5 | 1.25 | 20 |

| Dump or Spread Time (Min) | |
|---|---|
| Pile Dump | 0.25 |
| Truck Spread | 2 |
| Spreading w/Grader | 5 |
| Place Rip Rap | 10 |

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**Mashed Potatoes** (Sale Name) **Total Yards End Hauled:** cy

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **On site** | End Push | | | | | Spread and Compact | |
| Waste | (Type) | D10 | (Truck) | D6 | (Grader) | Vibratory Roller | (Compactor) |
| | (Rock Size) | | (Loader) | Cat 336F Excavator | (Excavator) | | |
| | (Water Truck Size) | | Gal/cu.yd | | | | |

**Endpush Time Computation**

| | | | | |
|---|---|---|---|---|
| 50 MPH | | Miles per round trip | 0 | Minutes |
| 40 MPH | | Miles per round trip | 0 | Minutes |
| 35 MPH | | Miles per round trip | 0 | Minutes |
| 30 MPH | | Miles per round trip | 0 | Minutes |
| 25 MPH | | Miles per round trip | 0 | Minutes |
| 20 MPH | | Miles per round trip | 0 | Minutes |
| 15 MPH | | Miles per round trip | 0 | Minutes |
| 10 MPH | | Miles per round trip | 0 | Minutes |
| 5 MPH | 0.1 | Miles per round trip | 1 | Minutes |
| | **0.10** | **Total Miles per Round Trip** | | |
| Dump or Spread Time per Round Trip | | | 0.25 | Minutes |
| Total Hauling Cycle Time for this Setting (100% Efficiency) | | | 5.00 | Minutes |
| Operator Efficiency Correction (80% Efficiency) | | | 6.25 | Minutes |

**Time Per Cubic Yard**

| | | |
|---|---|---|
| Pushing Only (per cubic yard) | 0.63 | min/cu.yd |
| Delay Time (while loading = loading time per cubic yard) | 0.00 | min/cu.yd |
| Total Time Per Cubic Yard | 0.63 | min/cu.yd |

**Cost Per Cubic Yard Computation**

| | | | |
|---|---|---|---|
| Cost of D8 cat Per Hour | $ | 150.00 | per Hr. |
| Cost of Operator Pre Hour | $ | 50.00 | per Hr. |
| Total Operating Cost Per Hour | $ | 200.00 | per Hr. |
| Operating Cost Per Minute | $ | 3.33 | per Min. |
| Cost Per Cubic Yard | **$** | **2.10** | per Cu. Yd. |
| **No loading** | | | per Cu. Yd. |

**Spreading Cost Per Cubic Yard**

| | | | |
|---|---|---|---|
| Cost of D8 cat Per Hour | $ | 150.00 | per Hr. |
| Cost of D8 cat Operator Per Hour | $ | 50.00 | per Hr. |
| Cost of Compaction Equip. Per Hour | $ | 75.00 | per Hr. |
| Cost of Compaction Equip. Op. Per Hour | $ | 50.00 | per Hr. |
| Total Operating Cost Per Hour | $ | 325.00 | per Hr. |
| Cost Per Cubic Yard to Place and Compact | $ | 2.71 | Cu. Yd. |
| **Total Cost to push** | **$** | **4.81** | Cu. Yd. |

**Rates**

| **Dump Truck** | **Rate ($/Hr.)** | **Capacity (cy)** | **Operator ($/Hr.)** | **Total** |
|---|---|---|---|---|
| B20 | $ 70.00 | 20 | $ 40.00 | $ 110.00 |
| D10 | $ 50.00 | 12 | $ 40.00 | $ 90.00 |
| OH25 | $ 80.00 | 25 | $ 40.00 | $ 120.00 |

| **Grader** | **Rate ($/Hr.)** | | **Operator ($/Hr.)** | **Total** |
|---|---|---|---|---|
| 12-G | $ 75.00 | | $ 50.00 | $ 125.00 |
| 14-G | $ 95.00 | | $ 50.00 | $ 145.00 |

| **Compaction Equipment** | **Rate ($/Hr.)** | | **Operator ($/Hr.)** | **Total** |
|---|---|---|---|---|
| Vibratory Roller | $ 75.00 | | $ 50.00 | $ 125.00 |
| Vib. Grid Roller | $ 75.00 | | $ 50.00 | $ 125.00 |
| Hand Held Compactor | $ 15.00 | | $ 50.00 | $ 65.00 |

| **Tractors** | **Rate ($/Hr.)** | | **Operator ($/Hr.)** | **Total** |
|---|---|---|---|---|
| D4 | $ 60.00 | | $ 50.00 | $ 110.00 |
| D6 | $ 100.00 | | $ 50.00 | $ 150.00 |
| D7 | $ 125.00 | | $ 50.00 | $ 175.00 |
| D8 | $ 150.00 | 10 | $ 50.00 | $ 200.00 |

| **Loader** | **Rate ($/Hr.)** | **Capacity (cy)** | **Operator ($/Hr.)** | **Total** |
|---|---|---|---|---|
| 14G Cat Wheel Loader | $ 80.00 | 3 | $ 50.00 | $ 130.00 |
| Cat 336F Excavator | $ 150.00 | 3 | $ 50.00 | $ 200.00 |

| **Loading Costs** | **Rate (Min/Load)** | **Delay (Min)** | **Total Loading Time (Min)** |
|---|---|---|---|
| Crushed Rock | 5 | 1.25 | 6.25 |
| Pit-Run/Jaw-Run Rock | 5 | 1.25 | 6.25 |
| Rip Rap Rock | 5 | 1.25 | 6.25 |
| Fill Material | 5 | 1.25 | 6.25 |

| **Dump or Spread Time (Min)** | |
|---|---|
| Pile Dump | 0.25 |
| Truck Spread | 0.5 |
| Spreading w/dozer | 5 |
| Place with Excavator | 2.00 |

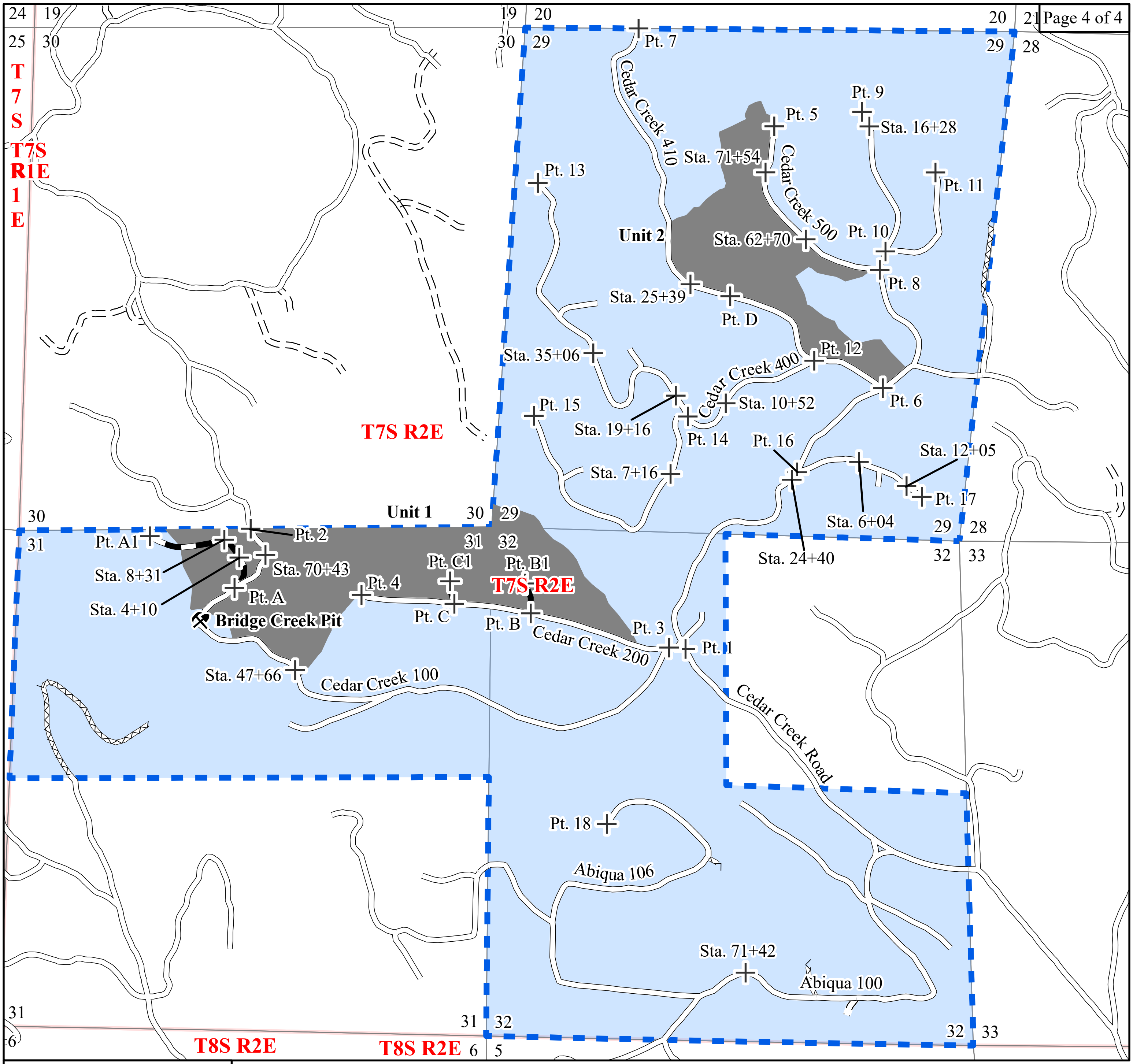
## MOVE-IN COSTS

## Mashed Potatoes

| Move in costs | | | | | | | |
|---|---|---|---|---|---|---|---|
| No. | Equipment Description | Transport Cost | Hours of Transport | Cost to Move | Weedwash Time (Hrs) | Weedwash Labor ($50/hour) | Total Cost |
| 1 | Grader | $ 250.00 | 7 | $ 1,750.00 | 0 | $ - | $ 1,750.00 |
| 1 | Rollers & Compactor | $ 250.00 | 7 | $ 1,750.00 | 0 | $ - | $ 1,750.00 |
| 1 | Excavator | $ 250.00 | 7 | $ 1,750.00 | 6 | $ 350.00 | $ 2,100.00 |
| 0 | Small backhoe | $ 250.00 | 7 | $ 1,750.00 | 4 | $ 250.00 | $ - |
| 1 | Tractors Dozer (D5 - D8) | $ 250.00 | 7 | $ 1,750.00 | 6 | $ 350.00 | $ 2,100.00 |
| 2 | Dump Truck (10 cy +) | $ 120.00 | 2 | $ 240.00 | 0 | $ - | $ 480.00 |
| 1 | Loader | $ 250.00 | 7 | $ 1,750.00 | 0 | $ - | $ 1,750.00 |
| 0 | Road Brusher | $ 250.00 | 5 | $ 1,250.00 | 6 | $ 350.00 | $ - |
| 1 | Water Truck (1000 gallon) | $ 120.00 | 2 | $ 240.00 | 0 | $ - | $ 240.00 |
| | | | | | | Total one time | $ 10,170.00 |

| TOTAL MOVE-IN COSTS = | $10,170.00 |
|---|---|

James Stuart 04/23/2026



# Legend

| | |
|---|---|
| ▨ | Timber Sale Area |
| ▭ | Santiam State Forest |
| ═ | Surfaced Road |
| ╌ | Unsurfaced Road |
| ⩘ | Blocked Road |
| + | Project Point |
| ⚒ | Rockpit |

# Exhibit A

PROJECT MAP
OF TIMBER SALE CONTRACT NO. NC-341-2027-W01249-01
MASHED POTATOES
PORTIONS OF SECTIONS 29, 31 & 32 T7S, R2E, W.M.,
MARION COUNTY, OREGON

| UNIT | GROSS ACRES | NET ACRES |
|---|---|---|
| 1 (CC) | 70 | 48 |
| 2 (CC) | 99 | 90 |
| 3 (RW) | 1 | 1 |
| TOTAL | 170 | 139 |

This product is for informational use and may not have been prepared for or be suitable for legal, engineering or survey purposes.

N
W E
S

1:18,000

0 1,000 2,000 4,000 6,000 8,000 Feet

04/23/2026

# CRUISE REPORT
# Mashed Potatoes
# Contract No. NC-341-2027-1249-01

## 1. Location:

Portions of Sections 29, 31 & 32, T7S, R2E, W.M., Marion County, Oregon.

## 2. Cruise Method:

The sale consists of two clearcut units cruised using variable radius plots with a basal factor of 33.61 for U1 and 20 for U2. To achieve a BF/acre SE of 9% or lower, 31 plots were laid out on a 4x4 chain grid for U1 and 34 plots on a 6x4 chain grid for U2, all with a 1:1 ratio of measure to count plots. After delineation of Green Tree Retentions areas, plots 123 and 224 were removed.

## 3. Tree Measurement and Grading:

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

a) **Height Standards:** Total tree heights were measured to the nearest foot. Bole heights were calculated to 25% of DBH or 5 inches, whichever was greater.
b) **Diameter Standards:** Diameters were measured outside bark at breast height to the nearest inch.
c) **Form Factors:** Form factors were measured or estimated for each grade tree using a form point of 16 feet.

## 4. Data Processing:

a) **Volumes and Statistics:** Cruise, volume estimates and sampling statistics were derived from Super Ace 2024 cruise software.

b) **Deductions:** A 5% volume deduction was used for all species for hidden defect and breakage.

c) **Wildlife Trees:** Within the Timber Sale are marked wildlife trees reserved from cutting; Unit 1 wildlife trees were identified within the cruise date as DFL and their volume was not incorporated into the cruise data. Unit 2 trees were not identified within the cruise data therefore a volume reduction will be applied equal to the number of trees selected multiplied by 1.9 MBF.

d) **Acreage:** Unit 1 has a total net acres of 48. Unit 2 has a total net acres of 90. For volume calculations, acreage from Unit 3 (R/W) was included into their respective stands acreage.

## 5. Timber Description:

The Timber is primarily 95-year-old Douglas-fir in Unit 1 and 86-year-old Douglas-fir in Unit 2. The stand contains a small amount of mid to low story Western hemlock and Western redcedar. The average Douglas-fir to be removed is approximately 31 inches DBH for Unit 1 and 29 inches DBH for Unit 2. The average volume per acre to be harvested (net) is approximately 46.2 MBF for Unit 1 and 36.0 MBF for Unit 2.

## 6. Cruisers:

Sale Area cruised by ODF in April 2026: Sandborg, Vickers & Rose

### 7. Total Volume (MBF) by Species and Grade:

| Unit | Species | Gross Volume (MBF) | Cruised D & B | Cruised D & B (MBF) | Hidden D & B | Hidden D & B (MBF) | Wildlife tree volume | Net Sale Volume |
|---|---|---|---|---|---|---|---|---|
| 1 | DF | 2,331 | <1% | 9 | 5% | 117 | 0 | 2,205 |
| | BM | 4 | 0% | 0 | 5% | <1 | 0 | 4 |
| | RA | 8 | 0% | 0 | 5% | <1 | 0 | 8 |
| 2 | DF | 3,651 | 1% | 33 | 5% | 183 | 228 | 3,207 |
| | WH | 34 | 0% | 0 | 5% | 2 | 0 | 32 |
| **Total** | | 6,028 | < 1% | 42 | 5% | 272 | 228 | **5,456** |

| Unit | Species | Avg. DBH | Total Net. Vol. | Special Mill | 2-Saw | 3-Saw | Oversized 3-saw | 4-saw | Camp run |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Douglas-fir | 31 | Grade % | 20.7% | 71.6% | 5.4% | 1.4% | 0.9% | - |
| | | | 2205 | 456 | 1579 | 119 | 31 | 20 | - |
| | Big-leaf maple | 16 | Grade % | | - | - | | - | 100% |
| | | | 4 | | - | - | | - | 4 |
| | Red alder | 22 | Grade % | | - | - | | - | 100% |
| | | | 8 | | - | - | | - | 8 |
| 2 | Douglas-fir | 29 | Grade % | 15.4% | 76.3% | 6% | 1.2% | 1.1% | - |
| | | | 3207 | 494 | 2447 | 192 | 39 | 35 | - |
| | Western Hemlock | 19 | Grade % | - | 87% | - | | 13% | - |
| | | | 32 | - | 28 | - | | 4 | - |
| **Total** | | | **5456** | **950** | **4054** | **311** | **70** | **59** | **12** |

# Statistics of Sampled Population

State, County: OR MARION
Lths: ACI-2023
Species: GEN WEST
Page: 1/1

Project: MASHED POTATOES
#Plots 30
Sort: WEST OREGON
Date: 04/13/2026

Tract: 1
# Trees: 143
Grade: NW SCALE GRADES
Cruised: 04/07/2026

Stand: 1
# Measured Trees: 80
Price: ACI-2018
Grown To:

Acres: 48.00
# Count Trees: 63
Cost: ACI-2023
Edited: 04/13/2026

## Sample data collection information

| | Total Plots | Sample Trees | Trees /Plot | Trees /Acre | Est Total Trees | % Sample Trees |
|---|---|---|---|---|---|---|
| Basal Plots (B) | 18 | 80 | 4.44 | 21.165 | 1,015 | 7.88 |
| Basal DBH Count Plots (B) | 12 | 63 | 5.25 | 14.856 | 713 | 8.84 |

## Stand Summary - Averages

| Species Group | St | Sample Tres | QM Dbh | Avg Total Ht | Trees /Acre | Basal Area /Acre | RD % | Mbf CV % | Mbf SE % | Tons /Acre | Net Ccf /Acre | Net Mbf /Acre | Total Net Ccf | Total Net Mbf |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DOUG FIR | | 73 | 31.1 | 149 | 32.832 | 173.51 | 31.10 | 29.6 | 5.4 | 249 | 87.48 | 48.360 | 4,199 | 2,321 |
| DOUG FIR | L | 5 | 49.5 | 154 | 1.569 | 20.98 | 2.98 | 40.4 | 18.1 | 31 | 10.87 | 6.744 | 522 | 324 |
| BL MAPLE | | 1 | 16.0 | 56 | 1.060 | 1.48 | 0.37 | | | 1 | 0.35 | .074 | 17 | 4 |
| R ALDER | | 1 | 22.0 | 98 | 0.561 | 1.48 | 0.32 | | | 1 | 0.36 | .163 | 17 | 8 |
| | | 80 | 31.7 | 146 | 36.022 | 197.45 | 34.77 | 30.2 | 5.5 | 282 | 99.07 | 55.341 | 4,755 | 2,656 |

Confidence Level (CL) 95.44 out of 100. Standard Deviation (SD) 1.00

Coefficient of Variation % (CV) and Stand Error of Estimate % (SE) are both computed from plot data

| | | | | | per-Acre Range | | | Plots Required for SE% | | | Total Volume Range | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Measured Unit | SD | CL | CV% | SE% | Low | Avg | High | 5% | 10% | 15% | Low | Avg | High |
| Net Mbf (1000 BdFt) | 1.00 | 95.44 | 30.16 | 5.51 | 52.29 | 55.34 | 58.39 | 36 | 9 | 4 | 2,510 | 2,656 | 2,803 |
| Net Ccf (100 CuFt) | 1.00 | 95.44 | 28.78 | 5.26 | 93.86 | 99.07 | 104.27 | 33 | 8 | 3 | 4,505 | 4,755 | 5,005 |
| Net Tons | 1.00 | 95.44 | 28.79 | 5.26 | 267.40 | 282.23 | 297.07 | 33 | 8 | 3 | 12,835 | 13,547 | 14,259 |
| Basal Area | 1.00 | 95.44 | 28.43 | 5.19 | 187.20 | 197.45 | 207.70 | 32 | 8 | 3 | | | |
| Trees | 1.00 | 95.44 | 49.53 | 9.04 | 32.76 | 36.02 | 39.28 | 98 | 24 | 10 | | | |

| | | | | | per-Tree Range | | | Sample Trees Required | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sample Trees BF | 1.00 | 95.44 | 64.19 | 6.55 | 1,962 | 2,099 | 2,237 | 164 | 41 | 18 |
| Sample Trees CF | 1.00 | 95.44 | 57.01 | 5.82 | 341 | 362 | 383 | 129 | 32 | 14 |

| Trees per Plot | Number Required | | |
|---|---|---|---|
| Required Measured Trees per Plot - BdFt per Acre | 4 | 4 | 4 |
| Required Measured Trees per Plot - CuFt per Acre | 3 | 4 | 4 |

# Species, Sort, Grade - Mbf by Species, Sort, Grade; Summarized: Len, Dia Classes

State, County: OR MARION
Lths and Dias: ACI-2023
Species: GEN WEST
Page: 1/1

Project: MASHED POTATOES
# Plots: 30
Sort: WEST OREGON
Date: 04/13/2026

Tract: 1
# Trees: 143
Grade: NW SCALE GRADES
Cruised: 04/07/2026

Stand: 1
# Meas Trees: 80
Price: ACI-2018
Grown:

Acres: 48.00
# Count Trees: 63
Cost: ACI-2023
Edited: 04/13/2026

| | | | | | BdFt per Acre | | | | Percent (%) of Net BdFt Volume | | | | | | | | | | | | | | | | Average Log | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Log Scale Dia | | | | | | | | Log Length | | | | | | | | | | | | |
| Species | Stat | Srt | Grd | % Net BdFt | % Def | Gross | Net | Total Net Mbf | 5-7 | 8-11 | 12-14 | 15-17 | 18-23 | 24-29 | 30-39 | 40-99 | 12-15 | 16-21 | 22-23 | 24-27 | 28-31 | 32-35 | 36-39 | 40+ | Len (Ft) | Dia (In) | BdFt | CuFt / Len | Logs /Acre |
| DF | | Do | SM | 20.7 | 0.1 | 10,035 | 10,024 | 481 | | | | | 27 | 41 | 32 | | | | | | | | | 100 | 40 | 25.7 | 1,174 | 4.7 | 8.539 |
| DF | | Do | 2M | 71.6 | 0.5 | 34,826 | 34,642 | 1,663 | | | 9 | 20 | 43 | 18 | 10 | | 0 | 0 | | 1 | 0 | 1 | 1 | 97 | 38 | 18.6 | 580 | 2.6 | 59.688 |
| DF | | Do | 3M | 5.4 | 0.0 | 2,635 | 2,635 | 126 | 21 | 79 | | | | | | | 0 | 1 | | 2 | 5 | 19 | 14 | 58 | 36 | 9.1 | 100 | 0.8 | 26.237 |
| DF | | Do | 4M | 0.9 | 0.0 | 422 | 422 | 20 | 73 | 27 | | | | | | | 39 | 15 | | 24 | 22 | | | | 17 | 7.0 | 23 | 0.4 | 18.194 |
| DF | | Do | O3 | 1.3 | 0.0 | 637 | 637 | 31 | | | | | 18 | 40 | 42 | | | | | | | | | 100 | 40 | 27.0 | 1,308 | 5.2 | .487 |
| **DF** | | **Totals** | | **100.0** | | **48,555** | **48,360** | **2,321** | **2** | **5** | **6** | **14** | **36** | **22** | **15** | | | | | **1** | **1** | **2** | **1** | **95** | **35** | **15.1** | **427** | **2.2** | **113.146** |
| DF | L | Do | SM | 10.0 | | 676 | 676 | 32 | | | | | | | 100 | | | | | | | | | 100 | 40 | 36.2 | 2,310 | 8.8 | .292 |
| DF | L | Do | 2M | 80.1 | 1.7 | 5,497 | 5,405 | 259 | | | 1 | | 13 | 26 | 60 | | | 3 | | | | | | 97 | 34 | 26.2 | 1,224 | 5.6 | 4.416 |
| DF | L | Do | 3M | 0.8 | | 56 | 56 | 3 | | 100 | | | | | | | | 41 | | 59 | | | | | 22 | 11.6 | 91 | 1.3 | .616 |
| DF | L | Do | O3 | 9.0 | 1.4 | 616 | 607 | 29 | | | | | 27 | | 73 | | | | | | | | | 100 | 40 | 25.0 | 1,142 | 4.9 | .532 |
| **DF-L** | | **Totals** | | **100.0** | **1.0** | **6,844** | **6,744** | **324** | | **1** | **1** | | **13** | **21** | **65** | | | **3** | | | | | | **96** | **34** | **25.0** | **1152** | **5.4** | **5.856** |
| BM | | Do | CR | 100.0 | | 74 | 74 | 4 | 100 | | | | | | | | | | | | | | | 100 | 40 | 7.7 | 70 | 0.8 | 1.060 |
| **BM** | | **Totals** | | **100.0** | | **74** | **74** | **4** | **100** | | | | | | | | | | | | | | | **100** | **40** | **7.7** | **70** | **0.8** | **1.060** |
| RA | | Do | CR | 100.0 | | 163 | 163 | 8 | | | 100 | | | | | | | | | | | | | 100 | 40 | 14.4 | 290 | 1.6 | .561 |
| **RA** | | **Totals** | | **100.0** | | **163** | **163** | **8** | | | **100** | | | | | | | | | | | | | **100** | **40** | **14.4** | **290** | **1.6** | **0.561** |
| **Totals All Species** | | | | **100.0** | **1.0** | **55,637** | **55,341** | **2,656** | **2** | **4** | **6** | **12** | **33** | **22** | **21** | | | **1** | | **1** | **1** | **1** | **1** | **95** | **35** | **15.5** | **459** | **2.3** | **120.623** |

# Log Stock - Mbf by Species, Sort, Grade, Len, Dia Class

| | | | | | |
|---|---|---|---|---|---|
| State, County: | OR MARION | Lths And Dias ACI-2023 | Species: GEN WEST | Page: | 1/1 |
| Project: | MASHED POTATOES | # Plots: 30 | Sort: WEST OREGON | Date: | 04/13/2026 |
| Tract: | 1 | # Trees: 143 | Grade: NW SCALE GRADES | Cruised: | 04/07/2026 |
| Stand: | 1 | # Measured Trees: 80 | Price: ACI-2018 | Grown To: | |
| Acres: | 48.00 | # Count Trees: 63 | Cost: ACI-2023 | Edited: | 04/13/2026 |

| | | | | | | | | | | Net Mbf by Scaling Diameter in Inches | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Species | Status | Srt | Grd | Log Len Class | Gross Mbf | % Def | Net Mbf | % Spp | BdFt Per Acre | 5-7 | 8-11 | 12-14 | 15-17 | 18-23 | 24-29 | 30-39 | 40-99 |
| DF | | Do | SM | 40+ | 482 | .1 | 481 | 20.7 | 10,024 | | | | | 129 | 199 | 153 | |
| DF | | Do | 2M | 12-15 | 2 | .0 | 2 | 0.1 | 32 | | | 2 | | | | | |
| DF | | Do | 2M | 16-21 | 8 | 9.4 | 8 | 0.3 | 157 | | | 1 | | 6 | | | |
| DF | | Do | 2M | 24-27 | 15 | 3.3 | 15 | 0.6 | 309 | | | 2 | | 13 | | | |
| DF | | Do | 2M | 28-31 | 5 | .0 | 5 | 0.2 | 110 | | | 5 | | | | | |
| DF | | Do | 2M | 32-35 | 12 | .0 | 12 | 0.5 | 253 | | | 5 | 7 | | | | |
| DF | | Do | 2M | 36-39 | 12 | .0 | 12 | 0.5 | 249 | | | 8 | 4 | | | | |
| DF | | Do | 2M | 40+ | 1,617 | .5 | 1,610 | 69.3 | 33,532 | | | 123 | 319 | 690 | 303 | 175 | |
| DF | | Do | 3M | 12-15 | 1 | .0 | 1 | 0.0 | 11 | | 1 | | | | | | |
| DF | | Do | 3M | 16-21 | 1 | .0 | 1 | 0.0 | 17 | | 1 | | | | | | |
| DF | | Do | 3M | 24-27 | 3 | .0 | 3 | 0.1 | 61 | | 3 | | | | | | |
| DF | | Do | 3M | 28-31 | 6 | .0 | 6 | 0.3 | 135 | | 6 | | | | | | |
| DF | | Do | 3M | 32-35 | 24 | .0 | 24 | 1.0 | 507 | 3 | 21 | | | | | | |
| DF | | Do | 3M | 36-39 | 18 | .0 | 18 | 0.8 | 365 | 3 | 15 | | | | | | |
| DF | | Do | 3M | 40+ | 74 | .0 | 74 | 3.2 | 1,539 | 20 | 54 | | | | | | |
| DF | | Do | 4M | 12-15 | 8 | .0 | 8 | 0.3 | 163 | 4 | 4 | | | | | | |
| DF | | Do | 4M | 16-21 | 3 | .0 | 3 | 0.1 | 64 | 3 | | | | | | | |
| DF | | Do | 4M | 24-27 | 5 | .0 | 5 | 0.2 | 103 | 4 | 1 | | | | | | |
| DF | | Do | 4M | 28-31 | 4 | .0 | 4 | 0.2 | 93 | 4 | | | | | | | |
| DF | | Do | O3 | 40+ | 31 | .0 | 31 | 1.3 | 637 | | | | | 6 | 12 | 13 | |
| **DF** | | | **Total** | | **2,331** | **0.4** | **2,321** | **87.4** | **48,360** | **41** | **106** | **147** | **329** | **844** | **514** | **341** | |
| DF | L | Do | SM | 40+ | 32 | .0 | 32 | 10.0 | 676 | | | | | | | 32 | |
| DF | L | Do | 2M | 16-21 | 9 | .0 | 9 | 2.8 | 187 | | | 3 | | 6 | | | |
| DF | L | Do | 2M | 40+ | 255 | 1.7 | 250 | 77.4 | 5,218 | | | | | 26 | 68 | 156 | |
| DF | L | Do | 3M | 16-21 | 1 | .0 | 1 | 0.3 | 23 | | 1 | | | | | | |
| DF | L | Do | 3M | 24-27 | 2 | .0 | 2 | 0.5 | 33 | | 2 | | | | | | |
| DF | L | Do | O3 | 40+ | 30 | 1.4 | 29 | 9.0 | 607 | | | | | 8 | | 21 | |
| **DF-L** | | | **Total** | | **329** | **1.5** | **324** | **12.2** | **6,744** | | **3** | **3** | | **41** | **68** | **210** | |
| BM | | Do | CR | 40+ | 4 | .0 | 4 | 100.0 | 74 | 4 | | | | | | | |
| **BM** | | | **Total** | | **4** | | **4** | **0.1** | **74** | **4** | | | | | | | |
| RA | | Do | CR | 40+ | 8 | .0 | 8 | 100.0 | 163 | | | 8 | | | | | |
| **RA** | | | **Total** | | **8** | | **8** | **0.3** | **163** | | | **8** | | | | | |
| **Stand(s)/Project Totals** | | | | | **2,671** | **0.5** | **2,656** | **100.0** | **55,341** | | | | | | | | |
| | | | | | **Percent Meaured Tree Net Mbf =** | | | | **100.0** | 44 | 109 | 157 | 329 | 884 | 582 | 551 | |

# Stand Summary Report

State, County: OR MARION
Project: MASHED POTATOES
Tract: 1
Stand: 1
Acres: 48.00

Lths & Dias: ACI-2023
# Plots: 30
# Trees: 143
# Measured Trees: 80
# Count Trees: 63

Species GEN WEST
Sort: WEST OREGON
Grade: NW SCALE GRADES
Price: ACI-2018
Cost: ACI-2023

Page: 1/1
Date: 04/13/2026
Cruised: 04/07/2026
Grown To:
Edited: 04/13/2026

| | | | | | | | | | | | Net Per Log | | Net Per Acre | | | | Total Net | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Spp | St | Dbh | Smpl Trees | Avg Age | Avg FF | Avg Total Ht | Trees /Ac | BA /Ac | Logs /Ac | Ht/D Inches | CuFt | BdFt | Tons | CuFt | BdFt | BdFt Def % | Tons | Ccf | Mbf |
| DF | | 18 | 1 | 80 | 87 | 117 | 0.838 | 1.48 | 2.513 | 78.0 | 24 | 87 | 2 | 59 | 218 | 7.7 | 81 | 28 | 10 |
| DF | | 19 | 1 | 80 | 87 | 138 | 0.752 | 1.48 | 2.255 | 87.2 | 30 | 130 | 2 | 67 | 293 | 0.0 | 92 | 32 | 14 |
| DF | | 21 | 1 | 80 | 87 | 132 | 0.615 | 1.48 | 1.846 | 75.4 | 36 | 153 | 2 | 66 | 283 | 2.2 | 90 | 32 | 14 |
| DF | | 22 | 1 | 80 | 91 | 148 | 0.512 | 1.35 | 1.537 | 80.7 | 46 | 210 | 2 | 71 | 323 | 4.8 | 98 | 34 | 15 |
| DF | | 23 | 1 | 80 | 89 | 118 | 0.490 | 1.41 | 1.471 | 61.6 | 42 | 190 | 2 | 62 | 279 | 0.0 | 84 | 30 | 13 |
| DF | | 24 | 1 | 80 | 92 | 145 | 0.421 | 1.32 | 1.264 | 72.5 | 55 | 277 | 2 | 69 | 350 | 0.0 | 95 | 33 | 17 |
| DF | | 25 | 4 | 80 | 90 | 148 | 1.609 | 5.48 | 5.198 | 71.2 | 52 | 266 | 8 | 271 | 1,382 | 0.3 | 371 | 130 | 66 |
| DF | | 26 | 4 | 80 | 92 | 149 | 1.445 | 5.33 | 5.407 | 68.8 | 52 | 269 | 8 | 279 | 1,454 | 0.5 | 382 | 134 | 70 |
| DF | | 27 | 4 | 80 | 92 | 158 | 1.332 | 5.30 | 5.328 | 70.0 | 55 | 303 | 8 | 292 | 1,615 | 0.0 | 400 | 140 | 78 |
| DF | | 28 | 4 | 80 | 91 | 148 | 1.266 | 5.41 | 4.425 | 63.6 | 63 | 338 | 8 | 280 | 1,494 | 0.4 | 383 | 134 | 72 |
| DF | | 29 | 3 | 80 | 91 | 142 | 0.879 | 4.03 | 2.636 | 58.9 | 75 | 390 | 6 | 198 | 1,027 | 0.6 | 271 | 95 | 49 |
| DF | | 30 | 5 | 80 | 89 | 147 | 1.449 | 7.11 | 4.937 | 58.8 | 70 | 363 | 10 | 346 | 1,790 | 0.7 | 473 | 166 | 86 |
| DF | | 31 | 2 | 80 | 90 | 150 | 14.313 | 75.63 | 49.604 | 57.8 | 77 | 427 | 109 | 3,828 | 21,181 | 0.4 | 5,237 | 1,838 | 1,017 |
| DF | | 32 | 5 | 80 | 91 | 143 | 1.225 | 6.81 | 3.680 | 53.6 | 87 | 474 | 9 | 321 | 1,744 | 1.2 | 438 | 154 | 84 |
| DF | | 33 | 3 | 80 | 89 | 143 | 0.716 | 4.25 | 2.375 | 51.9 | 86 | 442 | 6 | 203 | 1,050 | 0.5 | 278 | 98 | 50 |
| DF | | 34 | 4 | 80 | 90 | 156 | 0.880 | 5.55 | 3.316 | 55.0 | 90 | 502 | 8 | 297 | 1,666 | 0.0 | 407 | 143 | 80 |
| DF | | 35 | 3 | 80 | 88 | 147 | 0.649 | 4.34 | 2.141 | 50.3 | 88 | 495 | 5 | 188 | 1,059 | 0.0 | 257 | 90 | 51 |
| DF | | 36 | 3 | 80 | 93 | 169 | 0.554 | 3.91 | 2.215 | 56.4 | 103 | 628 | 7 | 229 | 1,390 | 0.0 | 313 | 110 | 67 |
| DF | | 37 | 1 | 80 | 91 | 174 | 0.181 | 1.35 | 0.725 | 56.4 | 109 | 658 | 2 | 79 | 477 | 0.0 | 108 | 38 | 23 |
| DF | | 39 | 1 | 80 | 84 | 154 | 0.191 | 1.59 | 0.766 | 47.4 | 102 | 543 | 2 | 78 | 415 | 0.0 | 106 | 37 | 20 |
| DF | | 40 | 4 | 80 | 91 | 152 | 0.625 | 5.42 | 2.187 | 45.6 | 122 | 697 | 8 | 267 | 1,524 | 0.0 | 365 | 128 | 73 |
| DF | | 41 | 1 | 80 | 93 | 181 | 0.141 | 1.30 | 0.565 | 53.0 | 133 | 835 | 2 | 75 | 472 | 0.0 | 103 | 36 | 23 |
| DF | | 43 | 1 | 80 | 93 | 177 | 0.128 | 1.30 | 0.514 | 49.4 | 151 | 928 | 2 | 77 | 477 | 0.0 | 106 | 37 | 23 |
| DF | | 45 | 1 | 80 | 91 | 168 | 0.122 | 1.35 | 0.490 | 44.8 | 155 | 937 | 2 | 76 | 459 | 0.0 | 104 | 36 | 22 |
| DF | | 46 | 1 | 80 | 87 | 174 | 0.128 | 1.48 | 0.513 | 45.4 | 128 | 798 | 2 | 66 | 409 | 0.0 | 90 | 32 | 20 |
| DF | | 47 | 2 | 80 | 90 | 191 | 0.227 | 2.74 | 0.794 | 48.6 | 168 | 999 | 4 | 133 | 792 | 0.0 | 183 | 64 | 38 |
| DF | | 48 | 2 | 80 | 88 | 169 | 0.228 | 2.86 | 0.794 | 42.3 | 175 | 1,061 | 4 | 139 | 842 | 0.0 | 190 | 67 | 40 |
| DF | | 49 | 5 | 80 | 89 | 172 | 0.546 | 7.13 | 2.182 | 42.1 | 161 | 972 | 10 | 351 | 2,121 | 0.6 | 481 | 169 | 102 |
| DF | | 50 | 2 | 80 | 91 | 179 | 0.196 | 2.68 | 0.785 | 43.0 | 183 | 1,161 | 4 | 144 | 912 | 0.0 | 197 | 69 | 44 |
| DF | | 52 | 1 | 80 | 93 | 174 | 0.088 | 1.30 | 0.351 | 40.2 | 210 | 1,333 | 2 | 74 | 468 | 0.0 | 101 | 35 | 22 |
| DF | | 54 | 1 | 80 | 92 | 180 | 0.083 | 1.32 | 0.333 | 40.0 | 184 | 1,173 | 2 | 61 | 390 | 0.0 | 84 | 29 | 19 |
| **DF** | | | **73** | **80** | **90** | **149** | **32.832** | **173.51** | **113.146** | **60.2** | **77** | **427** | **249** | **8,748** | **48,360** | **0.4** | **11,967** | **4,199** | **2,321** |
| DF | L | 42 | 1 | 80 | 91 | 99 | 0.141 | 1.35 | 0.422 | 28.3 | 161 | 1,077 | 2 | 68 | 454 | 0.0 | 93 | 33 | 22 |
| DF | L | 47 | 1 | 80 | 92 | 174 | 0.110 | 1.32 | 0.439 | 44.4 | 175 | 1,088 | 2 | 77 | 478 | 0.0 | 105 | 37 | 23 |
| DF | L | 50 | 0 | 80 | 90 | 154 | 1.046 | 13.99 | 3.904 | 37.2 | 186 | 1,152 | 21 | 725 | 4,496 | 1.5 | 991 | 348 | 216 |
| DF | L | 51 | 1 | 80 | 91 | 168 | 0.095 | 1.35 | 0.381 | 39.5 | 198 | 1,143 | 2 | 75 | 436 | 7.0 | 103 | 36 | 21 |
| DF | L | 54 | 1 | 80 | 85 | 176 | 0.097 | 1.55 | 0.390 | 39.1 | 185 | 1,125 | 2 | 72 | 439 | 0.7 | 99 | 35 | 21 |
| DF | L | 57 | 1 | 80 | 89 | 177 | 0.080 | 1.41 | 0.319 | 37.3 | 219 | 1,383 | 2 | 70 | 441 | 0.0 | 96 | 34 | 21 |
| **DF-L** | | | **5** | **80** | **90** | **154** | **1.569** | **20.98** | **5.856** | **37.2** | **186** | **1152** | **31** | **1,087** | **6,744** | **1.5** | **1,487** | **522** | **324** |
| BM | | 16 | 1 | 80 | 87 | 56 | 1.060 | 1.48 | 1.060 | 42.0 | 33 | 70 | 1 | 35 | 74 | 0.0 | 45 | 17 | 4 |
| **BM** | | | **1** | **80** | **87** | **56** | **1.060** | **1.48** | **1.060** | **42.0** | **33** | **70** | **1** | **35** | **74** | **0.0** | **45** | **17** | **4** |
| RA | | 22 | 1 | 80 | 87 | 98 | 0.561 | 1.48 | 0.561 | 53.5 | 65 | 290 | 1 | 36 | 163 | 0.0 | 48 | 17 | 8 |
| **RA** | | | **1** | **80** | **87** | **98** | **0.561** | **1.48** | **0.561** | **53.5** | **65** | **290** | **1** | **36** | **163** | **0.0** | **48** | **17** | **8** |
| **Stands/Project:** | | | **80** | **80** | **90** | **146** | **36.022** | **197.45** | **120.623** | **58.6** | **82** | **459** | **282** | **9,907** | **55,341** | **0.5** | **13,547** | **4,755** | **2,656** |

# Statistics of Sampled Population

State, County: OR MARION
Lths: ACI-2023
Species: GEN WEST
Page: 1/1

Project: MASHED POTATOES
#Plots 33
Sort: WEST OREGON
Date: 04/13/2026

Tract: 2
# Trees: 218
Grade: NW SCALE GRADES
Cruised: 04/08/2026

Stand: 2
# Measured Trees: 121
Price: ACI-2018
Grown To:

Acres: 90.00
# Count Trees: 97
Cost: ACI-2023
Edited: 04/13/2026

## Sample data collection information

| | Total Plots | Sample Trees | Trees /Plot | Trees /Acre | Est Total Trees | % Sample Trees |
|---|---|---|---|---|---|---|
| Basal Plots (B) | 17 | 121 | 7.12 | 20.665 | 1,859 | 6.51 |
| Basal DBH Count Plots (B) | 16 | 94 | 5.88 | 16.583 | 1,492 | 6.30 |
| Basal Count Plots (B) | 3 | 3 | 1.00 | .000 | | .00 |

## Stand Summary - Averages

| Species Group | St | Sample Tres | QM Dbh | Avg Total Ht | Trees /Acre | Basal Area /Acre | RD % | Mbf CV % | Mbf SE % | Tons /Acre | Net Ccf /Acre | Net Mbf /Acre | Total Net Ccf | Total Net Mbf |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DOUG FIR | | 120 | 28.8 | 131 | 35.621 | 160.85 | 29.99 | 30.2 | 5.3 | 219 | 76.69 | 40.200 | 6,902 | 3,618 |
| WHEMLOCK | | 1 | 19.0 | 82 | 1.627 | 3.20 | 0.73 | 70.7 | 50.0 | 3 | 1.11 | .374 | 100 | 34 |
| | | 121 | 28.4 | 129 | 37.248 | 164.05 | 30.72 | 30.0 | 5.2 | 222 | 77.80 | 40.574 | 7,002 | 3,652 |

Confidence Level (CL) 95.44 out of 100.

Standard Deviation (SD) 1.00

Coefficient of Variation % (CV) and Stand Error of Estimate % (SE) are both computed from plot data

| | | | | | per-Acre Range | | | Plots Required for SE% | | | Total Volume Range | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Measured Unit | SD | CL | CV% | SE% | Low | Avg | High | 5% | 10% | 15% | Low | Avg | High |
| Net Mbf (1000 BdFt) | 1.00 | 95.44 | 30.02 | 5.23 | 38.45 | 40.57 | 42.69 | 36 | 9 | 4 | 3,461 | 3,652 | 3,842 |
| Net Ccf (100 CuFt) | 1.00 | 95.44 | 30.04 | 5.23 | 73.73 | 77.80 | 81.87 | 36 | 9 | 4 | 6,636 | 7,002 | 7,368 |
| Net Tons | 1.00 | 95.44 | 30.10 | 5.24 | 210.37 | 222.01 | 233.64 | 36 | 9 | 4 | 18,933 | 19,980 | 21,027 |
| Basal Area | 1.00 | 95.44 | 31.43 | 5.47 | 157.20 | 166.30 | 175.40 | 39 | 9 | 4 | | | |
| Trees | 1.00 | 95.44 | 54.88 | 9.55 | 33.69 | 37.25 | 40.81 | 120 | 30 | 13 | | | |

| | | | | | per-Tree Range | | | Sample Trees Required | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sample Trees BF | 1.00 | 95.44 | 50.05 | 4.21 | 1,349 | 1,408 | 1,467 | 100 | 25 | 11 |
| Sample Trees CF | 1.00 | 95.44 | 45.96 | 3.87 | 255 | 265 | 275 | 84 | 21 | 9 |

| Trees per Plot | Number Required | | |
|---|---|---|---|
| Required Measured Trees per Plot - BdFt per Acre | 2 | 2 | 2 |
| Required Measured Trees per Plot - CuFt per Acre | 2 | 2 | 2 |

# Species, Sort, Grade - Mbf by Species, Sort, Grade; Summarized: Len, Dia Classes

| | | | |
|---|---|---|---|
| State, County: OR MARION | Lths and Dias: ACI-2023 | Species: GEN WEST | Page: 1/1 |
| Project: MASHED POTATOES | # Plots: 33 | Sort: WEST OREGON | Date: 04/13/2026 |
| Tract: 2 | # Trees: 218 | Grade: NW SCALE GRADES | Cruised: 04/08/2026 |
| Stand: 2 | # Meas Trees: 121 | Price: ACI-2018 | Grown: |
| Acres: 90.00 | # Count Trees: 97 | Cost: ACI-2023 | Edited: 04/13/2026 |

| | | | | | BdFt per Acre | | | Total | Percent (%) of Net BdFt Volume | | | | | | | | | | | | | | | | Average Log | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Log Scale Dia | | | | | | | | Log Length | | | | | | | | | | | | |
| Species | Stat | Srt | Grd | % Net BdFt | % Def | Gross | Net | Net Mbf | 5-7 | 8-11 | 12-14 | 15-17 | 18-23 | 24-29 | 30-39 | 40-99 | 12-15 | 16-21 | 22-23 | 24-27 | 28-31 | 32-35 | 36-39 | 40+ | Len (Ft) | Dia (In) | BdFt | CuFt / Len | Logs /Acre |
| DF | | Do | SM | 15.4 | 0.7 | 6,227 | 6,183 | 557 | | | | | 56 | 37 | 7 | | | | | | | 3 | | 97 | 39 | 23.9 | 991 | 4.1 | 6.238 |
| DF | | Do | 2M | 76.3 | 1.0 | 30,987 | 30,670 | 2,760 | | | 9 | 19 | 51 | 18 | 3 | | 0 | | | | 0 | 1 | 1 | 97 | 39 | 18.6 | 572 | 2.6 | 53.643 |
| DF | | Do | 3M | 7.2 | 0.4 | 2,903 | 2,890 | 260 | 25 | 59 | | 3 | | 14 | | | | 0 | | 0 | 4 | 28 | 13 | 54 | 36 | 8.9 | 105 | 0.9 | 27.594 |
| DF | | Do | 4M | 1.1 | 0.0 | 457 | 457 | 41 | 79 | 21 | | | | | | | 29 | 21 | | 22 | 3 | 21 | | 4 | 20 | 6.8 | 26 | 0.4 | 17.384 |
| **DF** | | | **Totals** | **100.0** | **1.0** | **40,572** | **40,200** | **3,618** | **3** | **4** | **7** | **15** | **47** | **20** | **3** | | | | | | **1** | **4** | **2** | **93** | **36** | **14.4** | **383** | **2.1** | **104.860** |
| WH | | Do | 2M | 87.0 | | 325 | 325 | 29 | | | 100 | | | | | | | | | | | | | 100 | 40 | 12.4 | 200 | 1.4 | 1.627 |
| WH | | Do | 4M | 13.0 | | 49 | 49 | 4 | 100 | | | | | | | | | | | | 100 | | | | 28 | 5.3 | 30 | 0.5 | 1.627 |
| **WH** | | | **Totals** | **100.0** | | **374** | **374** | **34** | **13** | | **87** | | | | | | | | | | **13** | | | **87** | **34** | **8.8** | **115** | **1.0** | **3.253** |
| **Totals All Species** | | | | **100.0** | **1.0** | **40,947** | **40,574** | **3,652** | **3** | **4** | **8** | **15** | **47** | **20** | **3** | | | | | | **1** | **4** | **2** | **93** | **35** | **14.2** | **375** | **2.0** | **108.113** |

# Log Stock - Mbf by Species, Sort, Grade, Len, Dia Class

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| State, County: | OR MARION | Lths And Dias | ACI-2023 | Species: | GEN WEST | Page: | 1/1 |
| Project: | MASHED POTATOES | # Plots: | 33 | Sort: | WEST OREGON | Date: | 04/13/2026 |
| Tract: | 2 | # Trees: | 218 | Grade: | NW SCALE GRADES | Cruised: | 04/08/2026 |
| Stand: | 2 | # Measured Trees: | 121 | Price: | ACI-2018 | Grown To: | |
| Acres: | 90.00 | # Count Trees: | 97 | Cost: | ACI-2023 | Edited: | 04/13/2026 |

| Species | Stat us | Srt | Grd | Log Len Class | Gross Mbf | % Def | Net Mbf | % Spp | BdFt Per Acre | Net Mbf by Scaling Diameter in Inches 5-7 | 8-11 | 12-14 | 15-17 | 18-23 | 24-29 | 30-39 | 40-99 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DF | | Do | SM | 32-35 | 19 | 2.6 | 19 | 0.5 | 208 | | | | | | 19 | | |
| DF | | Do | SM | 40+ | 541 | .6 | 538 | 14.9 | 5,975 | | | | | 311 | 186 | 41 | |
| DF | | Do | 2M | 12-15 | 1 | .0 | 1 | 0.0 | 14 | | | 1 | | | | | |
| DF | | Do | 2M | 28-31 | 13 | 3.1 | 12 | 0.3 | 138 | | | | 12 | | | | |
| DF | | Do | 2M | 32-35 | 30 | 3.2 | 29 | 0.8 | 323 | | | 14 | | 15 | | | |
| DF | | Do | 2M | 36-39 | 37 | 1.5 | 37 | 1.0 | 410 | | | 15 | 4 | | 18 | | |
| DF | | Do | 2M | 40+ | 2,707 | 1.0 | 2,681 | 74.1 | 29,784 | | | 221 | 516 | 1,389 | 479 | 75 | |
| DF | | Do | 3M | 16-21 | 1 | .0 | 1 | 0.0 | 8 | | 1 | | | | | | |
| DF | | Do | 3M | 24-27 | 1 | .0 | 1 | 0.0 | 13 | | 1 | | | | | | |
| DF | | Do | 3M | 28-31 | 10 | .0 | 10 | 0.3 | 115 | 5 | 5 | | | | | | |
| DF | | Do | 3M | 32-35 | 72 | .0 | 72 | 2.0 | 804 | 23 | 46 | | 3 | | | | |
| DF | | Do | 3M | 36-39 | 35 | .0 | 35 | 1.0 | 390 | 7 | 24 | | 4 | | | | |
| DF | | Do | 3M | 40+ | 142 | .8 | 140 | 3.9 | 1,560 | 29 | 75 | | | | 36 | | |
| DF | | Do | 4M | 12-15 | 12 | .0 | 12 | 0.3 | 133 | 6 | 6 | | | | | | |
| DF | | Do | 4M | 16-21 | 8 | .0 | 8 | 0.2 | 94 | 6 | 2 | | | | | | |
| DF | | Do | 4M | 24-27 | 9 | .0 | 9 | 0.3 | 102 | 9 | | | | | | | |
| DF | | Do | 4M | 28-31 | 1 | .0 | 1 | 0.0 | 15 | 1 | | | | | | | |
| DF | | Do | 4M | 32-35 | 9 | .0 | 9 | 0.2 | 96 | 9 | | | | | | | |
| DF | | Do | 4M | 40+ | 2 | .0 | 2 | 0.0 | 17 | 2 | | | | | | | |
| **DF** | | | **Total** | | **3,652** | **0.9** | **3,618** | **99.1** | **40,200** | **97** | **161** | **251** | **539** | **1,716** | **738** | **116** | |
| WH | | Do | 2M | 40+ | 29 | .0 | 29 | 87.0 | 325 | | | 29 | | | | | |
| WH | | Do | 4M | 28-31 | 4 | .0 | 4 | 13.0 | 49 | 4 | | | | | | | |
| **WH** | | | **Total** | | **34** | | **34** | **0.9** | **374** | **4** | | **29** | | | | | |
| **Stand(s)/Project Totals** | | | | | **3,685** | **0.9** | **3,652** | **100.0** | **40,574** | | | | | | | | |
| | | | | | **Percent Meaured Tree Net Mbf =** | | | | **100.0** | 101 | 161 | 281 | 539 | 1,716 | 738 | 116 | |

# Stand Summary Report

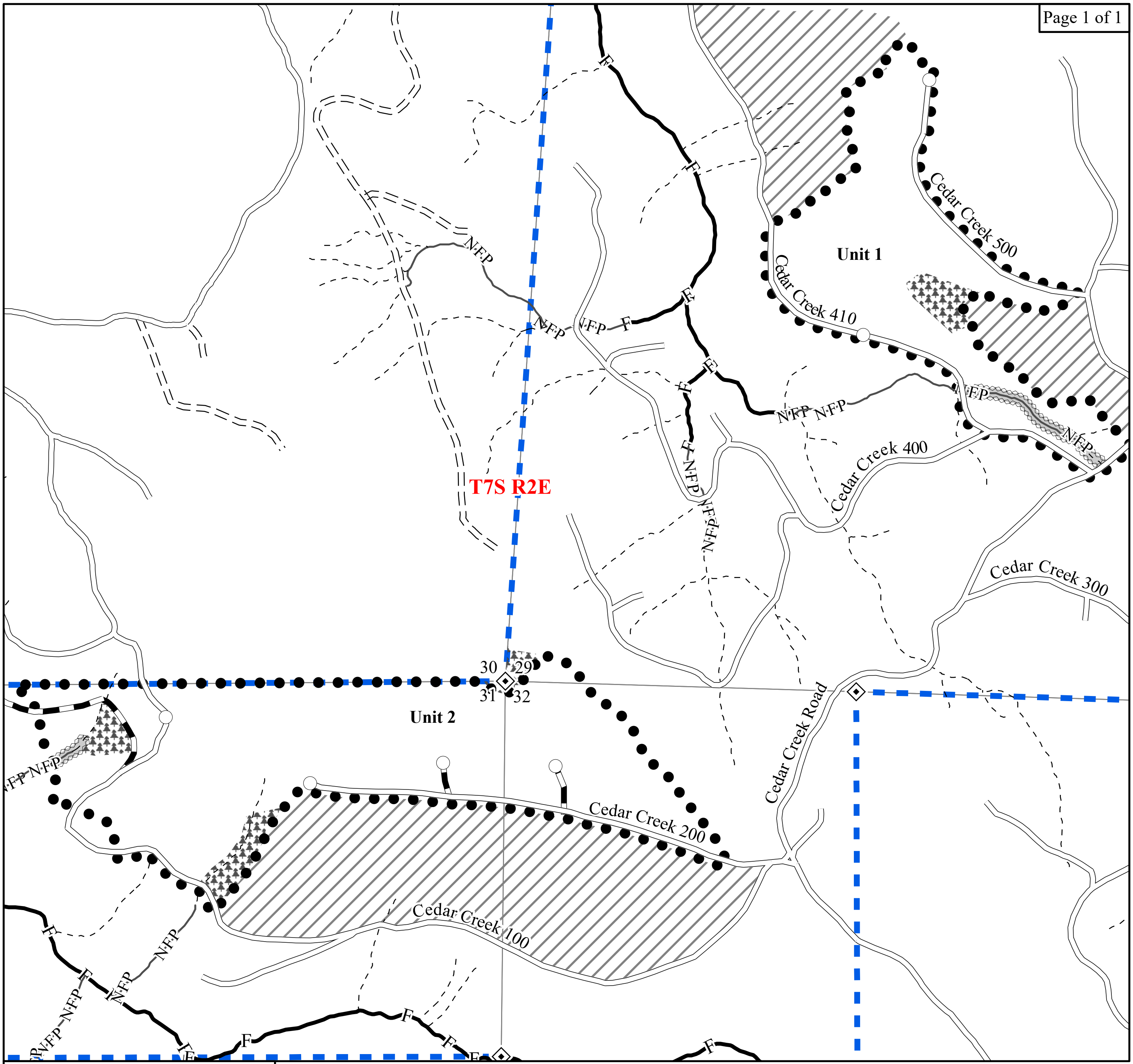
State, County: OR MARION
Project: MASHED POTATOES
Tract: 2
Stand: 2
Acres: 90.00

Lths & Dias: ACI-2023
# Plots: 33
# Trees: 218
# Measured Trees: 121
# Count Trees: 97

Species GEN WEST
Sort: WEST OREGON
Grade: NW SCALE GRADES
Price: ACI-2018
Cost: ACI-2023

Page: 1/1
Date: 04/13/2026
Cruised: 04/08/2026
Grown To:
Edited: 04/13/2026

| | | | | | | | | | | | Net Per Log | | Net Per Acre | | | BdFt | Total Net | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Spp | St | Dbh | Smpl Trees | Avg Age | Avg FF | Avg Total Ht | Trees /Ac | BA /Ac | Logs /Ac | Ht/D Inches | CuFt | BdFt | Tons | CuFt | BdFt | Def % | Tons | Ccf | Mbf |
| DF | | 9 | 1 | 80 | 87 | 56 | 1.812 | 0.80 | 1.812 | 74.7 | 8 | 30 | | 14 | 54 | 0.0 | 36 | 13 | 5 |
| DF | | 12 | 1 | 80 | 87 | 86 | 1.020 | 0.80 | 2.039 | 86.0 | 11 | 45 | 1 | 23 | 92 | 0.0 | 59 | 21 | 8 |
| DF | | 14 | 1 | 80 | 88 | 85 | 0.732 | 0.78 | 1.464 | 72.9 | 17 | 70 | 1 | 25 | 102 | 7.1 | 64 | 23 | 9 |
| DF | | 18 | 1 | 80 | 90 | 131 | 0.423 | 0.75 | 1.270 | 87.3 | 28 | 130 | 1 | 36 | 165 | 0.0 | 91 | 32 | 15 |
| DF | | 23 | 3 | 80 | 92 | 114 | 0.745 | 2.15 | 2.234 | 59.4 | 44 | 216 | 3 | 99 | 483 | 0.5 | 253 | 89 | 44 |
| DF | | 25 | 3 | 80 | 90 | 136 | 0.659 | 2.25 | 1.977 | 65.3 | 54 | 256 | 3 | 106 | 506 | 0.0 | 272 | 95 | 46 |
| DF | | 26 | 4 | 80 | 92 | 144 | 0.782 | 2.88 | 2.738 | 66.6 | 54 | 280 | 4 | 148 | 768 | 0.3 | 380 | 133 | 69 |
| DF | | 27 | 9 | 80 | 88 | 145 | 1.765 | 6.99 | 5.666 | 64.4 | 60 | 298 | 10 | 340 | 1,687 | 0.8 | 872 | 306 | 152 |
| DF | | 28 | 6 | 80 | 91 | 142 | 1.031 | 4.43 | 3.256 | 60.9 | 64 | 325 | 6 | 208 | 1,059 | 0.5 | 532 | 187 | 95 |
| DF | | 29 | 9 | 80 | 89 | 132 | 16.854 | 76.21 | 49.855 | 55.0 | 73 | 381 | 103 | 3,630 | 18,987 | 1.0 | 9,312 | 3,267 | 1,709 |
| DF | | 30 | 11 | 80 | 90 | 146 | 1.679 | 8.24 | 5.777 | 58.3 | 72 | 374 | 12 | 414 | 2,163 | 0.6 | 1,062 | 373 | 195 |
| DF | | 31 | 13 | 80 | 90 | 144 | 1.853 | 9.71 | 6.131 | 55.9 | 79 | 413 | 14 | 485 | 2,534 | 1.2 | 1,244 | 437 | 228 |
| DF | | 32 | 11 | 80 | 88 | 144 | 1.536 | 8.55 | 5.012 | 53.9 | 82 | 424 | 12 | 413 | 2,124 | 0.8 | 1,060 | 372 | 191 |
| DF | | 33 | 5 | 80 | 88 | 142 | 0.655 | 3.90 | 1.966 | 51.7 | 96 | 494 | 5 | 189 | 972 | 0.5 | 486 | 170 | 87 |
| DF | | 34 | 9 | 80 | 90 | 151 | 1.067 | 6.73 | 3.648 | 53.5 | 96 | 532 | 10 | 351 | 1,939 | 0.7 | 899 | 315 | 175 |
| DF | | 35 | 3 | 80 | 92 | 147 | 0.322 | 2.15 | 1.182 | 50.6 | 95 | 540 | 3 | 112 | 639 | 0.5 | 287 | 101 | 57 |
| DF | | 36 | 5 | 80 | 89 | 146 | 0.536 | 3.79 | 1.713 | 48.7 | 110 | 604 | 5 | 189 | 1,035 | 1.5 | 484 | 170 | 93 |
| DF | | 37 | 5 | 80 | 89 | 155 | 0.511 | 3.81 | 1.630 | 50.3 | 114 | 639 | 5 | 186 | 1,042 | 0.9 | 477 | 167 | 94 |
| DF | | 38 | 3 | 80 | 89 | 145 | 0.290 | 2.29 | 0.964 | 45.9 | 104 | 590 | 3 | 100 | 569 | 0.0 | 256 | 90 | 51 |
| DF | | 39 | 2 | 80 | 88 | 145 | 0.189 | 1.57 | 0.656 | 44.7 | 115 | 628 | 2 | 75 | 412 | 0.0 | 193 | 68 | 37 |
| DF | | 40 | 5 | 80 | 86 | 152 | 0.471 | 4.11 | 1.609 | 45.7 | 120 | 644 | 6 | 193 | 1,036 | 3.2 | 496 | 174 | 93 |
| DF | | 41 | 2 | 80 | 90 | 152 | 0.163 | 1.50 | 0.490 | 44.5 | 123 | 687 | 2 | 60 | 336 | 0.0 | 155 | 54 | 30 |
| DF | | 43 | 1 | 80 | 87 | 167 | 0.079 | 0.80 | 0.318 | 46.6 | 134 | 768 | 1 | 42 | 244 | 0.0 | 109 | 38 | 22 |
| DF | | 44 | 1 | 80 | 87 | 147 | 0.076 | 0.80 | 0.227 | 40.1 | 86 | 457 | 1 | 19 | 104 | 0.0 | 50 | 18 | 9 |
| DF | | 45 | 1 | 80 | 86 | 167 | 0.074 | 0.82 | 0.148 | 44.5 | 94 | 460 | | 14 | 68 | 0.0 | 36 | 13 | 6 |
| DF | | 46 | 1 | 80 | 92 | 151 | 0.062 | 0.72 | 0.248 | 39.4 | 145 | 842 | 1 | 36 | 209 | 3.0 | 92 | 32 | 19 |
| DF | | 49 | 1 | 80 | 88 | 144 | 0.060 | 0.78 | 0.179 | 35.3 | 207 | 1,113 | 1 | 37 | 200 | 0.0 | 95 | 33 | 18 |
| DF | | 50 | 1 | 80 | 80 | 164 | 0.069 | 0.95 | 0.278 | 39.4 | 164 | 858 | 1 | 46 | 238 | 0.0 | 117 | 41 | 21 |
| DF | | 52 | 1 | 80 | 89 | 164 | 0.052 | 0.77 | 0.208 | 37.8 | 197 | 1,140 | 1 | 41 | 237 | 2.9 | 105 | 37 | 21 |
| DF | | 53 | 1 | 80 | 85 | 142 | 0.055 | 0.84 | 0.164 | 32.2 | 231 | 1,180 | 1 | 38 | 194 | 3.1 | 97 | 34 | 17 |
| **DF** | | | **120** | **80** | **89** | **131** | **35.621** | **160.85** | **104.860** | **58.2** | **73** | **383** | **219** | **7,669** | **40,200** | **0.9** | **19,672** | **6,902** | **3,618** |
| DF | D | | 0 | 0 | | 0 | 0.000 | 2.24 | 0.000 | | | | | | | 0.0 | | | |
| **DF-D** | | | **0** | **0** | **0** | **0** | **0.000** | **2.24** | **0.000** | | **0** | **0** | | | | **0.0** | | | |
| WH | | 19 | 1 | 80 | 87 | 82 | 1.627 | 3.20 | 3.253 | 51.8 | 34 | 115 | 3 | 111 | 374 | 0.0 | 309 | 100 | 34 |
| **WH** | | | **1** | **80** | **87** | **82** | **1.627** | **3.20** | **3.253** | **51.8** | **34** | **115** | **3** | **111** | **374** | **0.0** | **309** | **100** | **34** |
| **Stands/Project:** | | | **121** | **80** | **89** | **129** | **37.248** | **166.30** | **108.113** | **57.9** | **72** | **375** | **222** | **7,780** | **40,574** | **0.9** | **19,981** | **7,002** | **3,652** |



## Legend

- ● ● Timber Sale Boundary
- ▨ Green Tree Retention Area
- ▨ Stream Buffer
- ▨ Reforestation Area
- ■ ■ Santiam State Forest
- ═ Surfaced Road
- = = Unsurfaced Road
- F—F Fish
- ·N·F·P· Non-Fish, Perennial
- - - - Non-Fish, Seasonal
- ○ Landing

# LOGGING PLAN

OF TIMBER SALE CONTRACT NO. NC-341-2027-W01249-01
MASHED POTATOES
PORTIONS OF SECTIONS 29, 31 & 32 T7S, R2E, W.M.,
MARION COUNTY, OREGON

| UNIT | TRACTOR ACRES | CABLE ACRES |
|---|---|---|
| 1 (CC) | 48 | 0 |
| 2 (CC) | 90 | 0 |
| 3 (RW) | 1 | 0 |
| TOTAL | 139 | 0 |

This product is for informational use and may not have been prepared for or be suitable for legal, engineering or survey purposes.

N
W E
S

1:12,000

0 500 1,000 2,000 3,000 4,000 Feet

04/22/2026