



Timber Sale Appraisal Blazing Saddles

Sale FG-341-2016-04-

District: Forest Grove

Date: July 20, 2015

Cost Summary

| | Conifer | Hardwood | Total |
|-------------------------|----------------|-------------------|----------------|
| Gross Timber Sale Value | \$1,273,730.35 | \$0.00 | \$1,273,730.35 |
| | | Project Work: | (\$422,680.00) |
| | | Advertised Value: | \$851,050.35 |



"SUSTAINABLE FORESTRY"

Timber Sale Appraisal Blazing Saddles

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District: Forest Grove

Date: July 20, 2015

Timber Description

Location: Portions of Sections 14, 23, and 24, T1N, R6W, W.M., Tillamook County, Oregon.

Stand Stocking: 20%

| Specie Name | AvgDBH | Amortization (%) | Recovery (%) |
|-----------------------|--------|------------------|--------------|
| Douglas - Fir | 20 | 0 | 98 |
| Western Hemlock / Fir | 16 | 0 | 98 |
| Noble Fir | 21 | 0 | 98 |

| Volume by Grade | 2S | 3S | 4S | Total |
|-----------------------|-------|-------|-----|-------|
| Douglas - Fir | 2,136 | 1,287 | 170 | 3,593 |
| Western Hemlock / Fir | 19 | 64 | 11 | 94 |
| Noble Fir | 139 | 34 | 5 | 178 |
| Total | 2,294 | 1,385 | 186 | 3,865 |

Comments: Pond Values Used: 2nd Quarter Calendar Year 2015.

Western redcedar and Other Cedars Stumpage Price = Pond Value minus Logging Cost:
 $\$1,048.29/\text{MBF} = \$1,275/\text{MBF} - \$226.71/\text{MBF}$

Red Alder and Other Hardwoods Stumpage Price = Pond Value minus Logging Cost:
 $\$369.23/\text{MBF} = \$595/\text{MBF} - \$225.77/\text{MBF}$

SCALING COST ALLOWANCE = \$5.00/MBF

FUEL COST ALLOWANCE = \$3.00/Gallon

HAULING COST ALLOWANCE

Hauling costs equivalent to \$780 daily truck cost.

Other Costs (with Profit & Risk to be added):

Brand and Paint: $3,865 \text{ MBF} \times \$2/\text{MBF} = \$7,730$

TOTAL Other Costs (with Profit & Risk to be added) = \$7,730

Other Costs (No Profit & Risk added):

Snag Creation: 74 Snags @ \$40 each = \$2,960

Block/Waterbar Roads/Skid Trails: $20 \text{ hrs} \times \$150/\text{hour} = \$3,000$

Pile Landing Slash/Sort Firewood: $15 \text{ hrs} \times \$150/\text{hour} = \$2,250$

Slash Treatment: $20 \text{ acres} \times \$150/\text{acre} = \$3,000$

Equipment Cleaning: $4 \times \$1,000/\text{Piece} = \$4,000$

TOTAL Other Costs (No Profit & Risk added) = \$15,210

ROAD MAINTENANCE

Move-in: \$4,000

General Road Maintenance: $9.9 \text{ miles} \times \$1,200/\text{mile} = \$11,880$

TOTAL Road Maintenance = $\$15,880/3,865 \text{ MBF} = \$4.11/\text{MBF}$



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Logging Conditions

Combination#: 1

| | |
|-----------------------|--------|
| Douglas - Fir | 60.91% |
| Western Hemlock / Fir | 49.00% |
| Noble Fir | 77.00% |

Logging System: Cable: Medium Tower >40 - <70 **Process:** Stroke Delimber

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

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

loads / day: 7 **bd. ft / load:** 4600

cost / mbf: \$186.34

machines: Log Loader (A)
Stroke Delimber (A)
Tower Yarder (Medium)

Combination#: 2

| | |
|-----------------------|--------|
| Douglas - Fir | 39.09% |
| Western Hemlock / Fir | 51.00% |
| Noble Fir | 23.00% |

Logging System: Shovel **Process:** Stroke Delimber

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

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

loads / day: 8 **bd. ft / load:** 4600

cost / mbf: \$86.19

machines: Stroke Delimber (B)



STRONGER FORESTRY

Timber Sale Appraisal Blazing Saddles

Sale FG-341-2016-04-

District: Forest Grove

Date: July 20, 2015

Logging Costs

| | |
|------------------------------------|--------------------------------------|
| Operating Seasons: 2.00 | Profit Risk: 10% |
| Project Costs: \$422,680.00 | Other Costs (P/R): \$7,730.00 |
| Slash Disposal: \$0.00 | Other Costs: \$15,210.00 |

Miles of Road

Road Maintenance: \$4.11

| 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 | 4.0 | 4.7 |
| Western Hemlock / Fir | \$0.00 | 4.0 | 3.8 |
| Noble Fir | \$0.00 | 4.0 | 4.3 |



"SUSTAINING FORESTRY"

Timber Sale Appraisal Blazing Saddles

Sale FG-341-2016-04-

District: Forest Grove

Date: July 20, 2015

Logging Costs Breakdown

| Logging | Road Maint | Fire Protect | Hauling | Other P/R appl | Profit & Risk | Slash Disposal | Scaling | Other | Total |
|------------------------------|------------|--------------|---------|----------------|---------------|----------------|---------|--------|----------|
| Douglas - Fir | | | | | | | | | |
| \$147.19 | \$4.19 | \$2.27 | \$42.32 | \$2.00 | \$19.80 | \$0.00 | \$5.00 | \$3.94 | \$226.71 |
| Western Hemlock / Fir | | | | | | | | | |
| \$135.26 | \$4.19 | \$2.27 | \$52.35 | \$2.00 | \$19.61 | \$0.00 | \$5.00 | \$3.94 | \$224.62 |
| Noble Fir | | | | | | | | | |
| \$163.31 | \$4.19 | \$2.27 | \$46.26 | \$2.00 | \$21.80 | \$0.00 | \$5.00 | \$3.94 | \$248.77 |

| Specie | Amortization | Pond Value | Stumpage | Amortized |
|-----------------------|--------------|------------|----------|-----------|
| Douglas - Fir | \$0.00 | \$565.10 | \$338.39 | \$0.00 |
| Western Hemlock / Fir | \$0.00 | \$437.98 | \$213.36 | \$0.00 |
| Noble Fir | \$0.00 | \$461.35 | \$212.58 | \$0.00 |



"SUSTAINABLE FORESTRY"

Timber Sale Appraisal Blazing Saddles

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District: Forest Grove

Date: July 20, 2015

Summary

Amortized

| Specie | MBF | Value | Total |
|-----------------------|-----|--------|--------|
| Douglas - Fir | 0 | \$0.00 | \$0.00 |
| Western Hemlock / Fir | 0 | \$0.00 | \$0.00 |
| Noble Fir | 0 | \$0.00 | \$0.00 |

Unamortized

| Specie | MBF | Value | Total |
|-----------------------|-------|----------|----------------|
| Douglas - Fir | 3,593 | \$338.39 | \$1,215,835.27 |
| Western Hemlock / Fir | 94 | \$213.36 | \$20,055.84 |
| Noble Fir | 178 | \$212.58 | \$37,839.24 |

Gross Timber Sale Value

Recovery: \$1,273,730.35

Prepared By: Joe Koch

Phone: 503-359-7460

TIMBER SALE SUMMARY
Blazing Saddles
Contract No. 341-16-04

1. **Location:** Portions of Sections 14, 23, & 24, T1N, R6W, W.M., Tillamook County, Oregon.
2. **Type of Sale:** This timber sale is 117 acres of Modified Clearcut and one acre of right of Way. The timber will be sold on a recovery basis at a sealed bid auction.
3. **Revenue Distribution:** 100% BOF, 100% Tillamook County, Tax Code 9-2.
4. **Sale Acreage:** Acres are net of stream buffers and road prisms. Acreage was determined using ESRI ArcMap GIS software.
5. **Cruise:** The Timber Sale was cruised by ODF Cruisers in April, 2015. For more information see Cruise Report.
6. **Timber Description:** Area 1 consists of a medium to well stocked 60 year old stand of Douglas-fir, with a small component of noble fir and patches of western hemlock. The south half of Area 1 was partial cut in 2000. Area 2 is also a 60 year old stand with a small component of noble fir. In Area 1 all noble fir and western hemlock between 8" and 14" DBH are reserved. The following table summarizes volumes for Douglas-fir only.

| Sale Area | Net Acres | Average Diameter | Net MBF Per Acre (D-fir) |
|------------------|------------------|-------------------------|---------------------------------|
| Area 1 | 74 | 19" | 27 |
| Area 2 | 43 | 21" | 37 |
| Area 3 R/W | 1 | 20" | 11 |

7. **Topography and Logging Method:** Slopes within the sale areas generally range from 10% to 75% with some steeper pitches. Area 1 has a north aspect and Area 2 is variable in aspect. The following table summarizes average and maximum cable corridor or estimated tractor skid trail length, and harvest method by percent for each sale area.

| | Area 1 (MC) | | | Area 2 (MC) | | |
|---------|-------------|------|----|-------------|------|----|
| | Ave | Max | % | Ave | Max | % |
| Tractor | 500 | 650 | 51 | 500 | 650 | 23 |
| Cable | 600 | 1475 | 49 | 480 | 1100 | 77 |

8. **Access:** All access to the Timber Sale Areas is on surfaced all-weather roads. From Forest Grove, travel 7 miles west on Highway 8 to its intersection with Highway 6.

Proceed west onto Highway 6 for approximately 10 miles, then turn left onto Beaverdam Road. Follow Beaverdam Road for approximately 8.5 miles, then turn left onto Seven Cedars Road. Continue on Seven Cedars Road for approximately 0.5 miles to the timber sale area.

9. Projects:

| | |
|--|--------------|
| Project No. 1: Road Construction and Improvement | \$66,158.84 |
| Project No. 2: Surfacing | \$203,810.25 |
| Project No. 3: Crush 2,500 CY 1-1/2" Stockpile | \$44,428.00 |
| Project No. 4: Grass Seed, Fertilize, and Mulch | \$1,552.44 |
| Project No. 5: Bridge Installation | \$95,177.15 |
| Project No. 6: Road Vacating | \$5,114.93 |
| Move in and equipment cleaning: | \$6,437.50 |

| | |
|---|--------------|
| Total Credit for all Projects (rounded) | \$422,680.00 |
|---|--------------|

PROJECT COST SUMMARY SHEET

Timber Sale: Blazing Saddles

Sale Number: 341-16-04

PROJECT NO. 1: ROAD CONSTRUCTION AND IMPROVEMENT

CONSTRUCTION

| <u>Road Segment</u> | <u>Length</u> | <u>Cost</u> |
|---------------------|----------------|-------------|
| A to B | 14+20 | \$10,857.37 |
| C to D | 15+25 | \$5,484.60 |
| E to F | 23+40 | \$6,327.26 |
| | 52+85 stations | |
| | 1.00 miles | |

SUBTOTAL CONSTRUCTION **\$22,669.23**

IMPROVEMENTS

| <u>Road Segment</u> | <u>Length</u> | <u>Cost</u> |
|---------------------|-----------------|-------------|
| G to H | 108+85 | \$12,055.31 |
| H to I | 23+35 | \$2,870.32 |
| H to J | 44+60 | \$22,814.44 |
| K to C | 4+90 | \$176.40 |
| L to M | 6+40 | \$2,340.40 |
| N to E | 55+35 | \$3,232.60 |
| | 243+45 stations | |
| | 4.61 miles | |

SUBTOTAL IMPROVEMENTS **\$43,489.47**

TOTAL PROJECT NO. 1 COST = **\$66,158.70**

PROJECT NO. 2: SURFACING

| <u>Road Segment</u> | <u>Amount</u> | <u>Type</u> | <u>Cost</u> |
|---------------------|---------------|-------------|-------------|
| A to B | 20 cy | 3" - 0 | \$414.00 |
| C to D | 1,235 cy | 3" - 0 | \$21,723.65 |
| E to F | 1,787 cy | 3" - 0 | \$32,398.31 |
| G to H | 4,191 cy | 1 1/2" - 0 | \$70,991.73 |
| H to I | 1,292 cy | 3" - 0 | \$21,821.88 |
| H to I | 52 cy | 1 1/2" - 0 | \$852.24 |
| H to J | 2,570 cy | 3" - 0 | \$45,077.80 |
| H to J | 120 cy | 1 1/2" - 0 | \$1,831.20 |
| L to M | 72 cy | 1 1/2" - 0 | \$1,140.48 |
| N to E | 144 cy | 3" - 0 | \$2,494.08 |
| N to E | 72 cy | 1 1/2" - 0 | \$1,213.44 |
| O to P | 140 cy | 1 1/2" - 0 | \$1,547.16 |
| O to P | 150 cy | 3" - 0 | \$1,652.78 |
| O to P | 50 cy | 36"-24" | \$651.50 |
| Total | 4,647 cy | 1 1/2" - 0 | |
| | 7,198 cy | 3" - 0 | |
| | 50 cy | 36" - 24" | |

TOTAL PROJECT NO. 2 COST = **\$203,810.25**

PROJECT NO. 3: CRUSH & BUILD 1½"-0 STOCKPILE

2,000 CY 1½"-0 Stockpile \$44,428.00

TOTAL PROJECT NO. 3 COST = **\$44,428.00**

PROJECT NO. 4: GRASS SEED, FERTILIZE, & MULCH

TOTAL PROJECT NO. 4 COST = **\$1,552.44**

PROJECT NO. 5: CONSTRUCT ROAD & BRIDGE BETWEEN O & P

TOTAL PROJECT NO. 5 COST = **\$95,177.15**

PROJECT NO. 6: ROAD VACATING

TOTAL PROJECT NO. 6 COST = **\$5,114.93**

MOVE IN & EQUIPMENT CLEANING

| | |
|--------------------------------|------------|
| Graders | \$977.91 |
| Rollers | \$598.78 |
| Excavator - Equipment Cleaning | \$1,977.91 |
| Tractor - Equipment Cleaning | \$2,020.08 |
| Dump Trucks (10 cy +) | \$862.82 |

TOTAL MOVE IN & EQUIPMENT CLEANING COST = **\$6,437.50**

TOTAL ALL PROJECTS **\$422,678.96**

TOTAL CREDITS **\$422,680.00**

SUMMARY OF CONSTRUCTION COST

Timber Sale: Blazing Saddles Timber Sale No. : 341-16-04
Road Segment: A to B Construction : 14+20 stations
0.27 miles

PROJECT NO. 1

EXCAVATION

| | | | | |
|---------------------------------|--------------|----------|------------|------------|
| Clearing and Grubbing (Scatter) | 0.65 acres @ | \$580.80 | per acre = | \$378.67 |
| Balanced Road Construction | 8.40 sta @ | \$110.00 | per sta = | \$924.00 |
| Drift | 5.80 sta @ | \$180.00 | per sta = | \$1,044.00 |
| Construct Turnouts (1) | 2 ea. @ | \$66.00 | per each = | \$132.00 |
| Construct Turnaround (1) | 1 ea. @ | \$82.50 | per each = | \$82.50 |
| Install Log Stringer Bridge | | | | \$7,000.00 |
| Improve Landing | 1 ea. @ | \$175.00 | per each = | \$175.00 |
| Grade, Ditch, and Roll | 3.20 sta @ | \$36.00 | per sta = | \$115.20 |
| Grade and Roll (Outslope) | 11.00 sta @ | \$15.40 | per sta = | \$396.00 |

TOTAL EXCAVATION COSTS = \$10,247.37

CULVERTS - MATERIALS & INSTALLATION

Culverts

30 LF of 18" \$600.00

Culvert Markers

1 markers \$10.00

TOTAL CULVERT COSTS = \$610.00

PROJECT NO. 1 TOTAL COST = \$10,857.37

PROJECT NO. 2:

| | | | | | | |
|--------------------------------|----|-------|--------------|---------|----------|----------|
| Abutments & Surfacing @ Bridge | 20 | cy of | 1 1/2" - 0 @ | \$20.70 | per cy = | \$414.00 |
| Total = | 20 | | | | | |
| | 20 | cy of | 1 1/2" - 0 | \$20.70 | per cy = | \$414.00 |

PROJECT NO. 2 TOTAL COST = \$414.00

PROJECT NO. 6:

| | | | | |
|---|-------------|------------|------------|------------|
| Construct Tank Traps | 1 ea. @ | \$55.00 | per each = | \$55.00 |
| Rip Road Surface | 14.20 sta @ | \$50.00 | per sta = | \$710.00 |
| Rip and Narrow Landing | 1 ea. @ | \$150.00 | per each = | \$150.00 |
| Remove Existing Culverts | 1 ea. @ | \$150.00 | per each = | \$150.00 |
| Remove Log Stringer Bridge | 1 ea. @ | \$1,400.00 | per each = | \$1,400.00 |
| Grass seed and fertilize areas of disturbed soil. | | | | \$269.47 |
| Mulch | | | | \$380.46 |
| Excavator Move-in & Equipment Cleaning | | | | \$2,000.00 |

PROJECT NO. 6 TOTAL COST = \$5,114.93

TOTAL COST = \$16,386.30

SUMMARY OF CONSTRUCTION COST

Timber Sale: Blazing Saddles
Road Segment: C to D

Timber Sale No. : 341-16-04
Construction : 15+25 stations
0.29 miles

PROJECT NO. 1

EXCAVATION

| | | | | | |
|---------------------------------|-------|---------|------------|------------|------------|
| Clearing and Grubbing (Scatter) | 1.40 | acres @ | \$1,078.00 | per acre = | \$1,509.60 |
| Balanced Road Construction | 15.25 | sta @ | \$110.00 | per sta = | \$1,677.50 |
| Construct Turnouts (2) | 2 | ea. @ | \$66.00 | per ea. = | \$132.00 |
| Construct Turnaround (1) | 1 | ea. @ | \$82.50 | per ea. = | \$82.50 |
| Landing | 1 | ea. @ | \$314.00 | per ea. = | \$314.00 |
| Grade, Ditch, and Roll | 15.25 | sta @ | \$36.00 | per sta = | \$549.00 |
| TOTAL EXCAVATION COSTS= | | | | | \$4,264.60 |

CULVERTS - MATERIALS & INSTALLATION

Culverts

60 LF of 18" \$1,200.00

Culvert Markers

2 markers \$20.00

TOTAL CULVERT COSTS = \$1,220.00

PROJECT NO. 1 TOTAL COST = \$5,484.60

PROJECT NO. 2:

| | | | | | |
|----------------------------|-------|----------|-----------|---|------------------------------|
| SURFACING | 12 | " deep = | 65 cy/sta | | |
| C to D | 991 | cy of | 3" - 0 | @ | \$17.59 per cy = \$17,431.69 |
| Turnouts (2) | 44 | cy of | 3" - 0 | @ | \$17.59 per cy = \$773.96 |
| Turnaround | 20 | cy of | 3" - 0 | @ | \$17.59 per cy = \$351.80 |
| Landing | 180 | cy of | 3" - 0 | @ | \$17.59 per cy = \$3,166.20 |
| Total = | 1,235 | | | | |
| | 1,235 | cy of | 3" - 0 | | \$17.59 per cy = \$21,723.65 |
| PROJECT NO. 2 TOTAL COST = | | | | | \$21,723.65 |

PROJECT NO. 4:

| | | | | | |
|---|------|---------|----------|------------|----------|
| Grass seed and fertilize areas of disturbed soil. | 0.70 | acres @ | \$425.00 | per acre = | \$297.58 |
| PROJECT NO. 4 TOTAL COST = | | | | | \$297.58 |

TOTAL COST = \$27,505.82

SUMMARY OF CONSTRUCTION COST

Timber Sale: Blazing Saddles
Road Segment: E to F

Timber Sale No. : 341-16-04
Construction : 23+40 stations
0.44 miles

PROJECT NO. 1

EXCAVATION

| | | | | | |
|---------------------------------|-------|---------|------------|------------|------------|
| Clearing and Grubbing (Scatter) | 2.15 | acres @ | \$1,078.00 | per acre = | \$2,316.36 |
| Balanced Road Construction | 23.40 | sta @ | \$110.00 | per sta = | \$2,574.00 |
| Construct Turnouts (3) | 3 | ea. @ | \$66.00 | per ea. = | \$198.00 |
| Construct Turnaround (1) | 1 | ea. @ | \$82.50 | per ea. = | \$82.50 |
| Landing | 1 | ea. @ | \$314.00 | per ea. = | \$314.00 |
| Grade, Ditch, and Roll | 23.40 | sta @ | \$36.00 | per sta = | \$842.40 |

PROJECT NO. 1 TOTAL COST = \$6,327.26

PROJECT NO. 2:

| | | | | | |
|--------------|-------|--------------------|---|---------|----------------------|
| SURFACING | 12 | " deep = 65 cy/sta | | | |
| E to F | 1,521 | cy of 3" - 0 | @ | \$18.13 | per cy = \$27,575.73 |
| Turnouts (3) | 66 | cy of 3" - 0 | @ | \$18.13 | per cy = \$1,196.58 |
| Turnaround | 20 | cy of 3" - 0 | @ | \$18.13 | per cy = \$362.60 |
| Landing | 180 | cy of 3" - 0 | @ | \$18.13 | per cy = \$3,263.40 |
| Total = | 1,787 | | | | |
| | 1,787 | cy of 3" - 0 | | \$18.13 | per cy = \$32,398.31 |

PROJECT NO. 2 TOTAL COST = \$32,398.31

PROJECT NO. 4:

| | | | | | |
|--|------|---------|----------|------------|----------|
| Grass seed and fertilize areas of disturbe | 1.07 | acres @ | \$425.00 | per acre = | \$456.61 |
|--|------|---------|----------|------------|----------|

PROJECT NO. 4 TOTAL COST = \$456.61

TOTAL COST = \$39,182.19

SUMMARY OF CONSTRUCTION COST

Timber Sale: Blazing Saddles
 Road Segment: G to H (Beaverdam Road)

Timber Sale No. : 341-16-04
 Improvement : 108+85 stations
2.06 miles

PROJECT NO. 1**EXCAVATION****Endhaul (17+20 to 18+00)**

| | | | | | |
|---|--------|-------|---------|-----------|-------------------|
| Excavate & Load | 63 | cy @ | \$1.35 | per cy = | \$84.78 |
| Haul | 63 | cy @ | \$0.49 | per cy = | \$30.77 |
| Compact Waste Area | 63 | cy @ | \$0.30 | per cy = | \$18.84 |
| Clean/Construct Ditch and Waste Locally | 101.05 | sta @ | \$60.00 | per sta = | \$6,063.00 |
| Grade, Ditch and Roll | 101.05 | sta @ | \$36.00 | per sta = | \$3,637.80 |
| Grade and Roll (Outslope) | 7.80 | sta @ | \$15.40 | per sta = | \$120.12 |
| TOTAL EXCAVATION COSTS= | | | | | \$9,955.31 |

CULVERTS - MATERIALS & INSTALLATION**Culverts**

100 LF of 18" \$2,000.00

Culvert Markers

10 markers \$100.00

TOTAL CULVERT COSTS = \$2,100.00

PROJECT NO. 1 TOTAL COST = \$12,055.31

PROJECT NO. 2:

| | | | | | |
|--------------------------|-------|----------|------------|---|------------------------------|
| SURFACING | 6 | " deep = | 36 cy/sta | | |
| G to H | 3,919 | cy of | 1 1/2" - 0 | @ | \$16.95 per cy = \$66,427.05 |
| Turnouts (16) | 176 | cy of | 1 1/2" - 0 | @ | \$16.95 per cy = \$2,983.20 |
| Junction (Pt. G & H) | 60 | cy of | 1 1/2" - 0 | @ | \$16.95 per cy = \$1,017.00 |
| Culvert Bedding/Backfill | 36 | cy of | 1 1/2" - 0 | @ | \$15.68 per cy = \$564.48 |
| Total = | 4,191 | | | | |
| | 4,155 | cy of | 1 1/2" - 0 | | \$16.95 per cy = \$70,427.25 |
| | 36 | cy of | 1 1/2" - 0 | | \$15.68 per cy = \$564.48 |

PROJECT NO. 2 TOTAL COST = \$70,991.73

PROJECT NO. 4:

| | | | | |
|---|--------------|----------|------------|---------|
| Grass seed and fertilize areas of disturbed soil. | 0.10 acres @ | \$425.00 | per acre = | \$42.50 |
| Mulch | 4 bales @ | \$8.00 | per bale = | \$32.00 |

PROJECT NO. 3 TOTAL COST = \$74.50

TOTAL COST = \$83,121.54

SUMMARY OF CONSTRUCTION COST

Timber Sale: Blazing Saddles
 Road Segment: H to I (Seven Cedars Road)

Timber Sale No. : 341-16-04
 Improvement : 23+35 stations
0.44 miles

PROJECT NO. 1

EXCAVATION

| | | | | | |
|---|-------|-------|----------|-----------|------------|
| Clearing and Grubbing (Scatter) | 4.00 | hrs @ | \$175.00 | per hr = | \$700.00 |
| Clean/Construct Ditch and Waste Locally | 15.20 | sta @ | \$60.00 | per sta = | \$912.00 |
| Grade and Ditch | 23.35 | sta @ | \$19.20 | per sta = | \$448.32 |
| TOTAL EXCAVATION COSTS= | | | | | \$2,060.32 |

CULVERTS - MATERIALS & INSTALLATION

Culverts

40 LF of 18" \$800.00

Culvert Markers

1 markers \$10.00

TOTAL CULVERT COSTS = \$810.00

PROJECT NO. 1 TOTAL COST = \$2,870.32

PROJECT NO. 2:

SURFACING

| | | | | | |
|--------------------------|-------|----------|------------|---|------------------------------|
| | 10 | " deep = | 53 cy/sta | | |
| H to I | 1,238 | cy of | 3" - 0 | @ | \$16.89 per cy = \$20,909.82 |
| Turnouts (3) | 54 | cy of | 3" - 0 | @ | \$16.89 per cy = \$912.06 |
| Junction (Pt. H & N) | 40 | cy of | 1 1/2" - 0 | @ | \$16.89 per cy = \$675.60 |
| Culvert Bedding/Backfill | 12 | cy of | 1 1/2" - 0 | @ | \$14.72 per cy = \$176.64 |
| Total = | 1,344 | | | | |
| | 40 | cy of | 1 1/2" - 0 | | \$16.89 per cy = \$675.60 |
| | 12 | cy of | 1 1/2" - 0 | | \$14.72 per cy = \$176.64 |
| | 1,292 | cy of | 3" - 0 | | \$16.89 per cy = \$21,821.88 |

PROJECT NO. 2 TOTAL COST = \$22,674.12

TOTAL COST = \$25,544.44

SUMMARY OF CONSTRUCTION COST

Timber Sale: Blazing Saddles
 Road Segment: H to J (Upper Saddle Mtn. Road)

Timber Sale No. : 341-16-04
 Improvement : 44+60 stations
0.84 miles

PROJECT NO. 1

EXCAVATION

| | | | | | |
|---|-------|-------|----------|-----------|------------|
| Clearing and Grubbing (Scatter) | 4.00 | hrs @ | \$175.00 | per hr = | \$700.00 |
| Road Widening (36+00 to 36+50) | 0.50 | sta @ | \$110.00 | per sta = | \$55.00 |
| Endhaul (Culvert No. 11, 25+20 to 28+90 & 36+00 to 36+50) | | | | | |
| Excavate & Load | 826 | cy @ | \$1.35 | per cy = | \$1,115.51 |
| Endhaul | 862 | cy @ | \$0.57 | per cy = | \$491.36 |
| Place Fill | 218 | cy @ | \$2.40 | per cy = | \$524.16 |
| Compact Fill | 218 | cy @ | \$0.50 | per cy = | \$109.20 |
| Compact Waste Area | 862 | cy @ | \$0.30 | per cy = | \$258.61 |
| Improve 50' x 50' Landing | 1 | ea. @ | \$165.00 | per ea. = | \$165.00 |
| Clean/Construct Ditch and Waste Locally (0+00 to 28+90 & 37+75 to 44+60) | 36.75 | sta @ | \$60.00 | per cy = | \$2,205.00 |
| Clean/Construct Ditch and Endhaul (28+90 to 37+75) | 8.85 | sta @ | \$100.00 | per cy = | \$885.00 |
| Grade, Ditch, and Roll | 44.60 | sta @ | \$36.00 | per sta = | \$1,605.60 |
| TOTAL EXCAVATION COSTS= | | | | | \$8,114.44 |

CULVERTS - MATERIALS & INSTALLATION

Culverts

| | |
|---------------|------------|
| 140 LF of 18" | \$2,800.00 |
| 60 LF of 24" | \$1,740.00 |
| 60 LF of 36" | \$3,000.00 |
| 50 LF of 60" | \$6,700.00 |

Culvert Markers

| | |
|------------|----------|
| 11 markers | \$110.00 |
|------------|----------|

Additional Culvert Installation Cost

| | | |
|----------|--------------------|----------|
| 2 Hrs. @ | \$175.00 per hr. = | \$350.00 |
|----------|--------------------|----------|

TOTAL CULVERT COSTS = \$14,700.00

PROJECT NO. 1 TOTAL COST = \$22,814.44

PROJECT NO. 2:

| | | | | | |
|--------------------------|-------|----------|------------|---|------------------------------|
| SURFACING | 10 | " deep = | 53 cy/sta | | |
| H to J | 2,364 | cy of | 3" - 0 | @ | \$17.54 per cy = \$41,464.56 |
| Turnouts (7) | 126 | cy of | 3" - 0 | @ | \$17.54 per cy = \$2,210.04 |
| Landing (39+75) | 80 | cy of | 3" - 0 | @ | \$17.54 per cy = \$1,403.20 |
| Culvert Bedding/Backfill | 120 | cy of | 1 1/2" - 0 | @ | \$15.26 per cy = \$1,831.20 |
| Total = | 2,690 | | | | |
| | 120 | cy of | 1 1/2" - 0 | | \$15.26 per cy = \$1,831.20 |
| | 2,570 | cy of | 3" - 0 | | \$17.54 per cy = \$45,077.80 |

PROJECT NO. 2 TOTAL COST = \$46,909.00

PROJECT NO. 4:

| | | | |
|---|--------------|---------------------|----------|
| Grass seed and fertilize areas of disturbed soil. | 0.50 acres @ | \$425.00 per acre = | \$212.50 |
| Mulch | 20 bales @ | \$8.00 per bale = | \$160.00 |

PROJECT NO. 4 TOTAL COST = \$372.50

TOTAL COST = \$70,095.94

SUMMARY OF CONSTRUCTION COST

Timber Sale: Blazing Saddles
Road Segment: K to C

Timber Sale No. : 341-16-04
Improvement : 4+90 stations
0.09 miles

PROJECT NO. 1

EXCAVATION

| | | | | | |
|------------------------|------|-------|----------------------------|-----------------|-----------------|
| Grade, Ditch, and Roll | 4.90 | sta @ | \$36.00 per sta = | <u>\$176.40</u> | |
| | | | TOTAL EXCAVATION COSTS= | | \$176.40 |
| | | | PROJECT NO. 1 TOTAL COST = | | \$176.40 |

TOTAL COST = \$176.40

SUMMARY OF CONSTRUCTION COST

Timber Sale: Blazing Saddles
Road Segment: L to M

Timber Sale No. : 341-16-04
Improvement : 6+40 stations
0.12 miles

PROJECT NO. 1

EXCAVATION

Grade, Ditch, and Roll 6.40 sta @ \$36.00 per sta = \$230.40
TOTAL EXCAVATION COSTS= \$230.40

CULVERTS - MATERIALS & INSTALLATION

Culverts

104 LF of 18" \$2,080.00

Culvert Markers

3 markers \$30.00

TOTAL CULVERT COSTS = \$2,110.00

PROJECT NO. 1 TOTAL COST = \$2,340.40

PROJECT NO. 2:

Culvert Bedding/Backfill 36 cy of 1 1/2" - 0 @ \$15.48 per cy = \$557.28

Surfacing over culverts 36 cy of 1 1/2" - 0 @ \$16.20 per cy = \$583.20

Total =

72 36 cy of 1 1/2" - 0 \$15.48 per cy = \$557.28

36 cy of 1 1/2" - 0 \$16.20 per cy = \$583.20

PROJECT NO. 2 TOTAL COST = \$1,140.48

TOTAL COST = \$3,480.88

SUMMARY OF CONSTRUCTION COST

Timber Sale: Blazing Saddles
Road Segment: N to E

Timber Sale No. : 341-16-04
Improvement: 55+35 stations
1.05 miles

PROJECT NO. 1

EXCAVATION

Grade, Ditch, and Roll 55.35 sta @ \$36.00 per sta = \$1,992.60
TOTAL EXCAVATION COSTS= \$1,992.60

CULVERTS - MATERIALS & INSTALLATION

Culverts

60 LF of 18" \$1,200.00

Culvert Markers

4 markers \$40.00

TOTAL CULVERT COSTS = \$1,240.00

PROJECT NO. 1 TOTAL COST = \$3,232.60

PROJECT NO. 2:

SURFACING 4 " deep = 20 cy/sta

| | | | | | |
|--------------------------|-----|-------|--------------|------------------|------------|
| Culvert Bedding/Backfill | 24 | cy of | 1 1/2" - 0 @ | \$15.92 per cy = | \$382.08 |
| Surfacing over culverts | 24 | cy of | 3" - 0 @ | \$17.32 per cy = | \$415.68 |
| Spot Rock | 120 | cy of | 3" - 0 @ | \$17.32 per cy = | \$2,078.40 |
| Spot Rock | 48 | cy of | 1 1/2" - 0 @ | \$17.32 per cy = | \$831.36 |
| Total = | 216 | | | | |
| | 144 | cy of | 3" - 0 | \$17.32 per cy = | \$2,494.08 |
| | 24 | cy of | 1 1/2" - 0 | \$15.92 per cy = | \$382.08 |
| | 48 | cy of | 1 1/2" - 0 | \$17.32 per cy = | \$831.36 |

PROJECT NO. 2 TOTAL COST = \$3,707.52

TOTAL COST = \$6,940.12

SUMMARY OF CONSTRUCTION COST

Timber Sale: Blazing Saddles Timber Sale No. : 341-16-04
Road Segment: O to P Construction : 4+50 stations
0.09 miles

PROJECT NO. 5

Bridge Installation

| | | | | | | | |
|--|----|-------|----------|-----------|--|--|-------------|
| 50' Bridge, Sills, Sheet Pile Back Walls (including freight) | | | | | | | \$59,400.00 |
| Dewatering | | | | | | | \$5,000.00 |
| Sills Installation | | | | | | | |
| Excavator | 8 | hrs @ | \$175.00 | per hr = | | | \$1,400.00 |
| Laborers | 24 | hrs @ | \$40.00 | per hr = | | | \$960.00 |
| Jumping Jack Compactor | 1 | day @ | \$350.00 | per day = | | | \$350.00 |
| Set Bridge | | | | | | | |
| Crane | 8 | hrs @ | \$350.00 | per hr = | | | \$2,800.00 |
| Laborers | 16 | hrs @ | \$40.00 | per hr = | | | \$640.00 |

Road Construction (O to P)

| | | | | | | | |
|--|------|---------|----------|------------|--|--|----------|
| Clearing and Grubbing (Endhaul Stumps) | 0.41 | acres @ | \$904.82 | per acre = | | | \$370.98 |
| Balanced Road Construction | 4.50 | sta @ | \$110.00 | per sta = | | | \$495.00 |
| Grade, Ditch, and Roll | 4.50 | sta @ | \$36.00 | per sta = | | | \$162.00 |

Mobilization

| | | | | | | | |
|---|--|--|--|--|--|--|------------|
| Crane | | | | | | | \$3,305.26 |
| Grader - move from Timber Sale Area | | | | | | | \$78.38 |
| Roller - move from Timber Sale Area | | | | | | | \$93.50 |
| Excavator (Large) | | | | | | | \$1,652.63 |
| Excavator (Large) - move from Timber Sale Area | | | | | | | \$700.00 |
| Tractor (D8) - move from Timber Sale Area | | | | | | | \$700.00 |
| Dump Trucks (10 cy +) - move from Timber Sale Area | | | | | | | \$123.75 |
| Water Truck (2500 Gal) - move from Timber Sale Area | | | | | | | \$41.25 |

Licensed Engineer

\$4,000.00

CULVERTS - MATERIALS & INSTALLATION

Culverts

24 LF of 18" \$480.00

Culvert Markers

1 markers \$10.00

SUBTOTAL = \$82,762.74

Profit and Risk 15% = \$12,414.41

PROJECT NO. 5 TOTAL COST = \$95,177.15

PROJECT NO. 2:

| | | | | | | | |
|--------------------------|-----|----------|------------|---|---------|----------|---------------------------------------|
| SURFACING | 6 | " deep = | 31 cy/sta | | | | |
| | 4 | " deep = | 20 cy/sta | | | | |
| Bridge | | | | | | | |
| Sill Footings | 10 | cy of | 3" - 0 | @ | \$11.13 | per cy = | \$111.30 |
| Sill Footings | 2 | cy of | 1 1/2" - 0 | @ | \$11.13 | per cy = | \$22.26 |
| Bridge Surfacing | 48 | cy of | 1 1/2" - 0 | @ | \$11.05 | per cy = | \$530.40 |
| Riprap | 50 | cy of | 36" - 24" | @ | \$13.03 | per cy = | \$651.50 |
| Base Rock (6" deep) | 140 | cy of | 3" - 0 | @ | \$11.05 | per cy = | \$1,541.48 |
| Surfacing Rock (4" deep) | 90 | cy of | 1 1/2" - 0 | @ | \$11.05 | per cy = | \$994.50 |
| Total = | 340 | | | | | | |
| | 2 | cy of | 1 1/2" - 0 | | \$11.13 | per cy = | \$22.26 |
| | 138 | cy of | 1 1/2" - 0 | | \$11.05 | per cy = | \$1,524.90 |
| | 10 | cy of | 3" - 0 | | \$11.13 | per cy = | \$111.30 |
| | 140 | cy of | 3" - 0 | | \$11.05 | per cy = | \$1,541.48 |
| | 50 | cy of | 36" - 24" | | \$13.03 | per cy = | \$651.50 |
| | | | | | | | PROJECT NO. 2 TOTAL COST = \$3,851.44 |

PROJECT NO. 4:

| | | | | | | | |
|---|------|---------|------------|------------|--|--|-------------------------------------|
| Grass seed & Mulch @ Bridge Site | 0.10 | acres @ | \$950.00 | per acre = | | | \$95.00 |
| Grass seed, Fertilize, & Mulch @ Waste Area | 0.25 | acres @ | \$1,025.00 | per acre = | | | \$256.25 |
| | | | | | | | PROJECT NO. 4 TOTAL COST = \$351.25 |

TOTAL COST = \$99,379.84

SUMMARY OF CONSTRUCTION COST

Timber Sale: Blazing Saddles
Road Segment: 1 1/2" - 0 Stockpile

Timber Sale No. : 341-16-04

PROJECT NO. 3: 1 1/2" - 0 Stockpile

2,000cy Stockpile 2,320 (Truck Measure) cy of 1 1/2" - 0 @ \$19.15 per cy = \$44,428.00
Total = 2,320

PROJECT NO. 3 TOTAL COST = \$44,428.00

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Timber Sale: Blazing Saddles

Sale Number: 341-16-04

Pit Name: Seven Cedars Pit

| | | | |
|-----------------|-------------|--|------------------|
| Swell: | <u>130%</u> | 1-1/2"-0 (trk measure) | <u>4,647 cy</u> |
| Shrinkage: | <u>116%</u> | 3"-0 (trk measure) | <u>7,198 cy</u> |
| Drill Pct.: | <u>85%</u> | 1 1/2"-0 Stockpile (stockpile measure) | <u>2,000 cy</u> |
| Screening Loss: | <u>15%</u> | Total Truck Yardage: | <u>14,165 cy</u> |
| | | Total In Place Yardage: | <u>10,896 cy</u> |

| | | | | | |
|--|---------------|-------|------------------|---|--------------|
| Reject Material Stockpile Site Development & Pit Development | | | | | \$1,400.00 |
| Drill & Shoot: | <u>\$2.80</u> | /cy x | <u>12,819 cy</u> | = | \$35,891.95 |
| Load Crusher: | <u>\$0.80</u> | /cy x | <u>16,664 cy</u> | = | \$13,331.29 |
| Screen Rock | <u>\$2.90</u> | /cy x | <u>16,664 cy</u> | = | \$48,325.94 |
| Crushing (1-1/2" - 0): | <u>\$3.30</u> | /cy x | <u>4,647 cy</u> | = | \$15,335.10 |
| Crushing (3" - 0): | <u>\$3.30</u> | /cy x | <u>7,198 cy</u> | = | \$23,751.75 |
| Crushing (Stockpile): | <u>\$3.30</u> | /cy x | <u>2,320 cy</u> | = | \$7,656.00 |
| Waste Reject: | <u>\$0.52</u> | /cy x | <u>2,500 cy</u> | = | \$1,299.80 |
| Load Dump Truck: | <u>\$0.80</u> | /cy x | <u>16,664 cy</u> | = | \$13,331.29 |
| Build and Shape Stockpile: | <u>\$1.10</u> | /cy x | <u>2,320 cy</u> | = | \$2,552.00 |
| | | | Subtotal | | \$167,075.13 |

| | | | | | |
|---|----------------|-------------|----------|-------|-------------|
| Equipment Cleaning | | | | | \$2,000.00 |
| Move in Crusher (Stage 3) | | | | | \$3,286.00 |
| Set up Crusher | | | | | \$3,327.00 |
| Move in and set up Drill and Compressor | | | | | \$671.83 |
| Move in Screening Plant | | | | | \$465.00 |
| Move in Excavator | | | | | \$1,091.76 |
| Move in D-8 | | | | | \$1,133.93 |
| Move in Loader | | | | | \$945.06 |
| Clean Up Pit | | | | | \$875.00 |
| Gradation Tests (\$65/2000 cy) | <u>\$71.50</u> | cy/2000cy x | <u>8</u> | tests | \$572.00 |
| Change Gradation | | | | | \$275.00 |
| | | | Subtotal | | \$14,642.58 |

ROCK DEVELOPMENT COST = \$12.83/cy TOTAL PRODUCTION COST \$181,717.71

CRUISE REPORT
Blazing Saddles
341-16-04

1. LOCATION: Portions of Sections 14, 23, & 24, T1N, R6W, W.M., Tillamook County, Oregon.

2. CRUISE DESIGN:

The cruise design assumed a Coefficient of Variation of 55%, an average stand diameter of 18 inches, a desired sampling error of 11% and a minimum sample size of 100 grade trees. Pre-cruise plots indicated that approximately 5 trees per plot could be realized with a 40 BAF prism.

3. SAMPLING METHOD:

The two Sale Areas were cruised in April 2015 with 31 variable radius grade plots using a 40 BAF prism (19 plots in Area 1 and 12 plots in Area 2). Plots were laid out on a 5 chain x 5 chain grid for both Sale Areas. Plots falling on or near existing roads or no-harvest areas were offset 1 chain.

4. CRUISE RESULTS

Area 1: 97 trees were measured and graded producing a cumulative Basal Area sampling error of 10.1% and 10.6% on the Board Foot Volume.

Area 2: 68 trees were measured and graded producing a cumulative Basal Area sampling error of 10.5% and 12.8 % on the Board Foot Volume.

5. TREE MEASUREMENT AND GRADING:

All 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 a six inch top.

b) **Diameter Standards:** Diameters were measured outside bark at breast height to the nearest inch.

c) **Form Factors** were measured for each grade tree using a form point of 16 feet.

5. DATA PROCESSING

a) **Volumes and Statistics**, Cruise volume estimates, and sampling statistics, were derived from Super Ace 2008 cruise software.

b) **Deductions:** Two percent of the volume was subtracted from the computed volumes to account for hidden defect and breakage.

6. Cruisers: The sale was cruised by ODF cruisers.

| | | |
|--------------|-----------------|-----------------|
| Prepared by: | <u>Joe Koch</u> | <u>4/7/2015</u> |
| | ODF Forester | Date |

| | | |
|--------------|--------------------|-----------------------------|
| Reviewed by: | <u>Eric Foucht</u> | <u> </u> |
| | | Date |

| TC PSTATS | | | PROJECT STATISTICS | | | | | PAGE 1 | | | | |
|--|------|-------|--------------------|----------------|-------------------|-----------------------------|----------------------------|-----------------|----------------|--------------|----------------|--------------|
| | | | PROJECT BLAZIFIN | | | | | DATE 6/23/2015 | | | | |
| TWP | RGE | SC | TRACT | TYPE | | ACRES | PLOTS | TREES | CuFt | BdFt | | |
| 01N | 06 | 24 | A1 | MC | | 117.00 | 31 | 165 | S | W | | |
| 01N | 06W | 24 | A2 | MC | | | | | | | | |
| | | | PLOTS | TREES | TREES PER PLOT | ESTIMATED TOTAL TREES | PERCENT SAMPLE TREES | | | | | |
| TOTAL | | | 31 | 165 | 5.3 | | | | | | | |
| CRUISE | | | 31 | 165 | 5.3 | 12,278 | 1.3 | | | | | |
| DBH COUNT | | | | | | | | | | | | |
| REFOREST | | | | | | | | | | | | |
| COUNT | | | | | | | | | | | | |
| BLANKS | | | | | | | | | | | | |
| 100 % | | | | | | | | | | | | |
| STAND SUMMARY | | | | | | | | | | | | |
| | | | SAMPLE TREES | TREES /ACRE | AVG DBH | BOLE LEN | REL DEN | BASAL AREA | GROSS BF/AC | NET BF/AC | GROSS CF/AC | NET CF/AC |
| DOUG FIR | | | 151 | 91.3 | 19.8 | 103 | 43.7 | 194.5 | 31,149 | 31,095 | 7,385 | 7,385 |
| NOB FIR | | | 6 | 2.9 | 21.4 | 114 | 1.6 | 7.4 | 1,560 | 1,560 | 330 | 330 |
| NOB FIR-L | | | 1 | .5 | 23.0 | 118 | 0.3 | 1.3 | 263 | 185 | 57 | 57 |
| WHEMLOCK-L | | | 3 | 6.5 | 10.6 | 85 | 1.2 | 4.0 | 514 | 514 | 115 | 115 |
| WHEMLOCK-T | | | 4 | 3.7 | 16.2 | 99 | 1.3 | 5.3 | 809 | 809 | 200 | 200 |
| TOTAL | | | 165 | 104.9 | 19.3 | 102 | 48.4 | 212.5 | 34,295 | 34,162 | 8,088 | 8,088 |
| CONFIDENCE LIMITS OF THE SAMPLE | | | | | | | | | | | | |
| 68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR | | | | | | | | | | | | |
| CL | 68.1 | COEFF | SAMPLE TREES - BF | | | | | # OF TREES REQ. | | INF. POP. | | |
| SD: | 1.0 | VAR.% | S.E.% | LOW | AVG | HIGH | 5 | 10 | 15 | | | |
| DOUG FIR | | | 63.1 | 5.1 | 436 | 460 | 484 | | | | | |
| NOB FIR | | | 56.3 | 25.1 | 476 | 635 | 794 | | | | | |
| NOB FIR-L | | | | | | | | | | | | |
| WHEMLOCK-L | | | 12.5 | 8.6 | 73 | 80 | 87 | | | | | |
| WHEMLOCK-T | | | 45.3 | 25.9 | 180 | 243 | 305 | | | | | |
| TOTAL | | | 64.7 | 5.0 | 431 | 454 | 477 | 167 | 42 | 19 | | |
| CL | 68.1 | COEFF | SAMPLE TREES - CF | | | | | # OF TREES REQ. | | INF. POP. | | |
| SD: | 1.0 | VAR.% | S.E.% | LOW | AVG | HIGH | 5 | 10 | 15 | | | |
| DOUG FIR | | | 54.7 | 4.4 | 101 | 106 | 111 | | | | | |
| NOB FIR | | | 48.8 | 21.7 | 103 | 131 | 160 | | | | | |
| NOB FIR-L | | | | | | | | | | | | |
| WHEMLOCK-L | | | 20.2 | 14.0 | 16 | 18 | 21 | | | | | |
| WHEMLOCK-T | | | 42.7 | 24.4 | 45 | 60 | 74 | | | | | |
| TOTAL | | | 56.1 | 4.4 | 100 | 104 | 109 | 126 | 31 | 14 | | |
| CL | 68.1 | COEFF | TREES/ACRE | | | | | # OF PLOTS REQ. | | INF. POP. | | |
| SD: | 1.0 | VAR.% | S.E.% | LOW | AVG | HIGH | 5 | 10 | 15 | | | |
| DOUG FIR | | | 50.8 | 9.1 | 83 | 91 | 100 | | | | | |
| NOB FIR | | | 300.7 | 54.0 | 1 | 3 | 5 | | | | | |
| NOB FIR-L | | | 556.8 | 99.9 | 0 | 0 | 1 | | | | | |
| WHEMLOCK-L | | | 556.8 | 99.9 | 0 | 6 | 13 | | | | | |
| WHEMLOCK-T | | | 421.7 | 75.7 | 1 | 4 | 7 | | | | | |
| TOTAL | | | 61.6 | 11.1 | 93 | 105 | 117 | 151 | 38 | 17 | | |
| CL | 68.1 | COEFF | BASAL AREA/ACRE | | | | | # OF PLOTS REQ. | | INF. POP. | | |
| SD: | 1.0 | VAR.% | S.E.% | LOW | AVG | HIGH | 5 | 10 | 15 | | | |
| DOUG FIR | | | 32.6 | 5.8 | 183 | 194 | 206 | | | | | |
| NOB FIR | | | 310.6 | 55.7 | 3 | 7 | 11 | | | | | |
| NOB FIR-L | | | 556.8 | 99.9 | 0 | 1 | 3 | | | | | |
| WHEMLOCK-L | | | 556.8 | 99.9 | 0 | 4 | 8 | | | | | |
| WHEMLOCK-T | | | 435.7 | 78.2 | 1 | 5 | 9 | | | | | |
| TOTAL | | | 39.2 | 7.0 | 198 | 212 | 227 | 61 | 15 | 7 | | |

| TWP | RGE | SC | TRACT | TYPE | ACRES | PLOTS | TREES | CuFt | BdFt | |
|------------|------|----|-------|-------|------------------|--------|-----------------|------|-----------|----|
| 01N | 06 | 24 | A1 | MC | 117.00 | 31 | 165 | S | W | |
| 01N | 06W | 24 | A2 | MC | | | | | | |
| CL | 68.1 | | COEFF | | NET BF/ACRE | | # OF PLOTS REQ. | | INF. POP. | |
| SD: | 1.0 | | VAR.% | S.E.% | LOW | AVG | HIGH | 5 | 10 | 15 |
| DOUG FIR | | | 38.0 | 6.8 | 28,976 | 31,095 | 33,213 | | | |
| NOB FIR | | | 319.1 | 57.3 | 667 | 1,560 | 2,453 | | | |
| NOB FIR-L | | | 556.8 | 99.9 | 0 | 185 | 369 | | | |
| WHEMLOCK-L | | | 556.8 | 99.9 | 0 | 514 | 1,027 | | | |
| WHEMLOCK-T | | | 434.0 | 77.9 | 179 | 809 | 1,438 | | | |
| TOTAL | | | 45.7 | 8.2 | 31,362 | 34,162 | 36,962 | 83 | 21 | 9 |
| CL | 68.1 | | COEFF | | NET CUFT FT/ACRE | | # OF PLOTS REQ. | | INF. POP. | |
| SD: | 1.0 | | VAR.% | S.E.% | LOW | AVG | HIGH | 5 | 10 | 15 |
| DOUG FIR | | | 34.9 | 6.3 | 6,923 | 7,385 | 7,847 | | | |
| NOB FIR | | | 315.9 | 56.7 | 143 | 330 | 517 | | | |
| NOB FIR-L | | | 556.8 | 99.9 | 0 | 57 | 115 | | | |
| WHEMLOCK-L | | | 556.8 | 99.9 | 0 | 115 | 230 | | | |
| WHEMLOCK-T | | | 437.5 | 78.5 | 43 | 200 | 357 | | | |
| TOTAL | | | 42.3 | 7.6 | 7,474 | 8,088 | 8,702 | 72 | 18 | 8 |

| | | | | | | | | | | | |
|---|-----|----------------|-------------------|--------------------------------|--------------------|-------------------|-----------------|--------------------------|----------------|--------------|--|
| TC TSTATS | | | | STATISTICS PROJECT BLAZIFIN | | | | PAGE 1 DATE 6/23/2015 | | | |
| TWP | RGE | SECT | TRACT | TYPE | ACRES | PLOTS | TREES | CuFt | BdFt | | |
| 01N | 06W | 24 | A1 | MC | 74.00 | 19 | 97 | S | W | | |
| | | | | TREES | ESTIMATED TOTAL | PERCENT SAMPLE | | | | | |
| | | | | PER PLOT | TREES | TREES | | | | | |
| PLOTS | | TREES | | | | | | | | | |
| TOTAL | | 19 | | 97 | | 5.1 | | | | | |
| CRUISE | | 19 | | 97 | | 5.1 | | 8,320 | | | |
| DBH COUNT | | | | | | | | 1.2 | | | |
| REFOREST | | | | | | | | | | | |
| COUNT | | | | | | | | | | | |
| BLANKS | | | | | | | | | | | |
| 100 % | | | | | | | | | | | |
| STAND SUMMARY | | | | | | | | | | | |
| SAMPLE TREES | | TREES /ACRE | AVG DBH | BOLE LEN | REL DEN | BASAL AREA | GROSS BF/AC | NET BF/AC | GROSS CF/AC | NET CF/AC | |
| DOUG FIR | | 89 | 95.6 | 19.0 | 99 | 43.0 | 187.4 | 27,511 | 27,424 | 6,767 | |
| WHEMLOCK-L | | 3 | 10.2 | 10.6 | 85 | 1.9 | 6.3 | 812 | 812 | 182 | |
| WHEMLOCK-T | | 4 | 5.9 | 16.2 | 99 | 2.1 | 8.4 | 1,279 | 1,279 | 316 | |
| NOB FIR-L | | 1 | .7 | 23.0 | 118 | 0.4 | 2.1 | 416 | 292 | 91 | |
| TOTAL | | 97 | 112.4 | 18.2 | 98 | 47.8 | 204.2 | 30,018 | 29,807 | 7,356 | |
| CONFIDENCE LIMITS OF THE SAMPLE 68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR | | | | | | | | | | | |
| CL: 68.1 % | | COEFF | SAMPLE TREES - BF | | | | # OF TREES REQ. | | INF. POP. | | |
| SD: 1.0 | | VAR.% | S.E.% | LOW | AVG | HIGH | 5 | 10 | 15 | | |
| DOUG FIR | | 60.6 | 6.4 | 356 | 380 | 405 | | | | | |
| WHEMLOCK-L | | 12.5 | 8.6 | 73 | 80 | 87 | | | | | |
| WHEMLOCK-T | | 45.3 | 25.9 | 180 | 243 | 305 | | | | | |
| NOB FIR-L | | | | | | | | | | | |
| TOTAL | | 62.7 | 6.4 | 342 | 366 | 389 | 157 | 39 | 17 | | |
| CL: 68.1 % | | COEFF | SAMPLE TREES - CF | | | | # OF TREES REQ. | | INF. POP. | | |
| SD: 1.0 | | VAR.% | S.E.% | LOW | AVG | HIGH | 5 | 10 | 15 | | |
| DOUG FIR | | 54.2 | 5.7 | 87 | 92 | 97 | | | | | |
| WHEMLOCK-L | | 20.2 | 14.0 | 16 | 18 | 21 | | | | | |
| WHEMLOCK-T | | 42.7 | 24.4 | 45 | 60 | 74 | | | | | |
| NOB FIR-L | | | | | | | | | | | |
| TOTAL | | 56.5 | 5.7 | 84 | 89 | 94 | 128 | 32 | 14 | | |
| CL: 68.1 % | | COEFF | TREES/ACRE | | | | # OF PLOTS REQ. | | INF. POP. | | |
| SD: 1.0 | | VAR.% | S.E.% | LOW | AVG | HIGH | 5 | 10 | 15 | | |
| DOUG FIR | | 50.8 | 12.0 | 84 | 96 | 107 | | | | | |
| WHEMLOCK-L | | 435.9 | 102.7 | | 10 | 21 | | | | | |
| WHEMLOCK-T | | 327.5 | 77.2 | 1 | 6 | 10 | | | | | |
| NOB FIR-L | | 435.9 | 102.7 | | 1 | 1 | | | | | |
| TOTAL | | 65.3 | 15.4 | 95 | 112 | 130 | 180 | 45 | 20 | | |
| CL: 68.1 % | | COEFF | BASAL AREA/ACRE | | | | # OF PLOTS REQ. | | INF. POP. | | |
| SD: 1.0 | | VAR.% | S.E.% | LOW | AVG | HIGH | 5 | 10 | 15 | | |
| DOUG FIR | | 32.7 | 7.7 | 173 | 187 | 202 | | | | | |
| WHEMLOCK-L | | 435.9 | 102.7 | | 6 | 13 | | | | | |
| WHEMLOCK-T | | 338.8 | 79.8 | 2 | 8 | 15 | | | | | |
| NOB FIR-L | | 435.9 | 102.7 | | 2 | 4 | | | | | |
| TOTAL | | 42.8 | 10.1 | 184 | 204 | 225 | 77 | 19 | 9 | | |
| CL: 68.1 % | | COEFF | NET BF/ACRE | | | | # OF PLOTS REQ. | | INF. POP. | | |
| SD: 1.0 | | VAR.% | S.E.% | LOW | AVG | HIGH | 5 | 10 | 15 | | |
| DOUG FIR | | 33.9 | 8.0 | 25,233 | 27,424 | 29,616 | | | | | |
| WHEMLOCK-L | | 435.9 | 102.7 | | 812 | 1,647 | | | | | |
| WHEMLOCK-T | | 337.4 | 79.5 | 262 | 1,279 | 2,295 | | | | | |
| NOB FIR-L | | 435.9 | 102.7 | | 292 | 592 | | | | | |
| TOTAL | | 45.4 | 10.7 | 26,617 | 29,807 | 32,998 | 87 | 22 | 10 | | |

| | | | | | | | | | |
|--------------|------------|-------------|--------------|-------------------|--------------|--------------|-----------------|-------------|-------------|
| TC TSTATS | | | | STATISTICS | | | | PAGE | 2 |
| | | | | PROJECT | BLAZIFIN | | | DATE | 6/23/2015 |
| TWP | RGE | SECT | TRACT | TYPE | ACRES | PLOTS | TREES | CuFt | BdFt |
| 01N | 06W | 24 | A1 | MC | 74.00 | 19 | 97 | S | W |
| CL: | 68.1 % | COEFF | | NET CUFT FT/ACRE | | | # OF PLOTS REQ. | | INF. POP. |
| SD: | 1.0 | VAR. | S.E.% | LOW | AVG | HIGH | 5 | 10 | 15 |
| CL: | 68.1 % | COEFF | | NET CUFT FT/ACRE | | | # OF PLOTS REQ. | | INF. POP. |
| SD: | 1.0 | VAR.% | S.E.% | LOW | AVG | HIGH | 5 | 10 | 15 |
| DOUG FIR | | 32.3 | 7.6 | 6,252 | 6,767 | 7,282 | | | |
| WHEMLOCK-L | | 435.9 | 102.7 | | 182 | 369 | | | |
| WHEMLOCK-T | | 340.2 | 80.2 | 63 | 316 | 570 | | | |
| NOB FIR-L | | 435.9 | 102.7 | | 91 | 184 | | | |
| TOTAL | | <i>44.0</i> | <i>10.4</i> | <i>6,594</i> | <i>7,356</i> | <i>8,118</i> | 82 | 20 | 9 |

| T | | TSPCSTGR | | Species, Sort Grade - Board Foot Volumes (Type) | | | | | | | | | | | | Page | | 1 | | | | | | | | | |
|--------------------------------|--|----------|--|---|------------------|-------|--|-------|-------------------------------|---------|--------|-------------------|------------|--------------|-------|-------|---------------|------------|-----|------|-----|------|-----------|------|------|-------|-------|
| | | | | Project: BLAZIFIN | | | | | | | | | | | | Date | | 6/23/2015 | | | | | | | | | |
| | | | | | | | | | | | | | | | | Time | | 12:58:27PM | | | | | | | | | |
| T01N R06W S24 TMC | | | | | | | | | | | | T01N R06W S24 TMC | | | | | | | | | | | | | | | |
| Twp | | Rge | | Sec | | Tract | | Type | | Acres | | Plots | | Sample Trees | | CuFt | | BdFt | | | | | | | | | |
| 01N | | 06W | | 24 | | A1 | | MC | | 74.00 | | 19 | | 97 | | S | | W | | | | | | | | | |
| S So Gr T rt ad | | | | % | Bd. Ft. per Acre | | | Total | Percent Net Board Foot Volume | | | | | | | | Average Log | | | Logs | | | | | | | |
| | | | | | | | | | Log Scale Dia. | | | | Log Length | | | | Ln Dia Bd CF/ | | | | | | | | | | |
| Spp | | | | Net | Def% | | | Gross | Net | Net MBF | 4-5 | 6-11 | 12-16 | 17+ | 12-20 | 21-30 | 31-35 | 36-99 | Ft | In | Ft | Lf | Per /Acre | | | | |
| DF | | | | | | | | | | | | | | | | | | | 11 | 15 | | 0.00 | 2.5 | | | | |
| DF | | | | | | | | 51 | | .3 | 14,102 | 14,053 | | 1,040 | | 72 | 28 | | 2 | 98 | 40 | 15 | 346 | 1.96 | 40.6 | | |
| DF | | | | | | | | 43 | | .3 | 11,831 | 11,793 | | 873 | | 77 | 23 | | 1 | 21 | 78 | 38 | 9 | 114 | 0.81 | 103.9 | |
| DF | | | | | | | | 6 | | | 1,578 | 1,578 | | 117 | | 100 | | | 66 | 34 | | 18 | 7 | 26 | 0.40 | 61.6 | |
| DF Totals | | | | | | | | 92 | | .3 | 27,511 | 27,424 | | 2,029 | | 39 | 47 | 15 | 4 | 2 | 10 | 84 | 32 | 9 | 132 | 1.01 | 208.5 |
| WH T 2M | | | | | | | | 19 | | | 254 | 254 | | 19 | | 100 | | | | 100 | 40 | 14 | 290 | 1.74 | | .9 | |
| WH T 3M | | | | | | | | 69 | | | 880 | 880 | | 65 | | 100 | | | 9 | 8 | 83 | 37 | 9 | 122 | 0.81 | 7.2 | |
| WH T 4M | | | | | | | | 12 | | | 145 | 145 | | 11 | | 100 | | | 12 | 88 | | 24 | 6 | 32 | 0.36 | 4.6 | |
| WH T Totals | | | | | | | | 4 | | | 1,279 | 1,279 | | 95 | | 80 | 20 | | 1 | 16 | 5 | 77 | 32 | 8 | 101 | 0.77 | 12.7 |
| WH L 3M | | | | | | | | 83 | | | 678 | 678 | | 50 | | 100 | | | | 67 | 33 | 34 | 7 | 66 | 0.42 | 10.2 | |
| WH L 4M | | | | | | | | 17 | | | 134 | 134 | | 10 | | 100 | | | 100 | | | 13 | 6 | 13 | 0.25 | 10.2 | |
| WH L Totals | | | | | | | | 3 | | | 812 | 812 | | 60 | | 100 | | | 17 | | 56 | 27 | 24 | 7 | 40 | 0.37 | 20.5 |
| NF L 2M | | | | | | | | 72 | | 27.5 | 292 | 212 | | 16 | | 100 | | | | | 100 | 40 | 16 | 290 | 2.02 | .7 | |
| NF L 3M | | | | | | | | 23 | | 40.0 | 109 | 66 | | 5 | | 100 | | | | | 100 | 40 | 10 | 90 | 0.97 | .7 | |
| NF L 4M | | | | | | | | 5 | | | 15 | 15 | | 1 | | 100 | | 100 | | | | 12 | 7 | 20 | 0.41 | .7 | |
| NF L Totals | | | | | | | | 1 | | 29.8 | 416 | 292 | | 22 | | 27 | 73 | | 5 | | 95 | 31 | 11 | 133 | 1.35 | 2.2 | |
| Type Totals | | | | | | | | .7 | | 30,018 | 29,807 | | 2,206 | | 42 | 44 | 13 | | 4 | 3 | 11 | 82 | 31 | 9 | 122 | 0.96 | 243.9 |

| TC | | Stand Table Summary | | | | | | | | | | | | | | |
|-------------------|-----|---------------------|-------|-----------|----------------|-------------|--------------|------------------|---------------|---------------|-----------------------|-----------------------|-------------------|--------|--------|-------|
| Project BLAZIFIN | | | | | | | | | | | | | | | | |
| T01N R06W S24 TMC | | | | | | | | | | | | | T01N R06W S24 TMC | | | |
| Twp | Rge | Sec | Tract | Type | Acres | Plots | Sample Trees | Page: 1 | | | | | | | | |
| 01N | 06W | 24 | A1 | MC | 74.00 | 19 | 97 | Date: 06/23/20 | | | | | | | | |
| | | | | | | | | Time: 12:58:27PM | | | | | | | | |
| S Spec | T | Sample | | Av | Trees/ Acre | BA/ Acre | Logs Acre | Average Log | | Tons/ Acre | Net Cu.Ft. Acre | Net Bd.Ft. Acre | Totals | | | |
| | | DBH | Trees | FF 16' | | | | Ht Tot | Net Cu.Ft. | | | | Net Bd.Ft. | Tons | Cunits | MBF |
| DF | | 12 | 3 | 87 | 83 | 8.042 | 6.32 | 10.72 | 15.2 | 60.0 | 4.64 | 163 | 643 | 343 | 121 | 48 |
| DF | | 13 | 3 | 87 | 89 | 6.852 | 6.32 | 13.70 | 13.0 | 53.3 | 5.09 | 178 | 731 | 376 | 132 | 54 |
| DF | | 14 | 5 | 84 | 87 | 9.847 | 10.53 | 15.75 | 19.6 | 67.5 | 8.78 | 308 | 1,063 | 650 | 228 | 79 |
| DF | | 15 | 2 | 86 | 85 | 3.431 | 4.21 | 6.86 | 17.1 | 67.5 | 3.34 | 117 | 463 | 247 | 87 | 34 |
| DF | | 16 | 8 | 85 | 92 | 12.062 | 16.84 | 22.62 | 23.0 | 88.7 | 14.85 | 521 | 2,005 | 1,099 | 386 | 148 |
| DF | | 17 | 2 | 85 | 94 | 2.671 | 4.21 | 5.34 | 26.3 | 100.0 | 4.01 | 141 | 534 | 297 | 104 | 40 |
| DF | | 18 | 6 | 87 | 104 | 7.148 | 12.63 | 14.30 | 32.2 | 127.5 | 13.13 | 461 | 1,823 | 972 | 341 | 135 |
| DF | | 19 | 6 | 86 | 100 | 6.415 | 12.63 | 12.83 | 31.5 | 121.7 | 11.51 | 404 | 1,561 | 852 | 299 | 116 |
| DF | | 20 | 8 | 85 | 101 | 7.720 | 16.84 | 17.37 | 34.1 | 125.6 | 16.86 | 592 | 2,181 | 1,248 | 438 | 161 |
| DF | | 21 | 5 | 85 | 112 | 4.376 | 10.53 | 11.38 | 36.2 | 139.2 | 11.75 | 412 | 1,584 | 870 | 305 | 117 |
| DF | | 22 | 10 | 86 | 110 | 7.975 | 21.05 | 22.33 | 36.5 | 153.9 | 23.23 | 815 | 3,437 | 1,719 | 603 | 254 |
| DF | | 23 | 7 | 86 | 109 | 5.108 | 14.74 | 13.13 | 43.3 | 186.7 | 16.19 | 568 | 2,452 | 1,198 | 420 | 181 |
| DF | | 24 | 11 | 86 | 112 | 7.371 | 23.16 | 20.10 | 46.0 | 193.3 | 26.37 | 925 | 3,887 | 1,952 | 685 | 288 |
| DF | | 25 | 1 | 89 | 109 | .618 | 2.11 | 1.85 | 45.4 | 206.7 | 2.40 | 84 | 383 | 177 | 62 | 28 |
| DF | | 26 | 3 | 86 | 112 | 1.713 | 6.32 | 5.14 | 49.1 | 205.6 | 7.19 | 252 | 1,056 | 532 | 187 | 78 |
| DF | | 27 | 1 | 87 | 135 | .529 | 2.11 | 1.59 | 62.9 | 296.7 | 2.85 | 100 | 471 | 211 | 74 | 35 |
| DF | | 28 | 3 | 85 | 124 | 1.477 | 6.32 | 4.43 | 62.3 | 274.4 | 7.86 | 276 | 1,216 | 582 | 204 | 90 |
| DF | | 29 | 3 | 84 | 121 | 1.377 | 6.32 | 4.13 | 64.3 | 266.7 | 7.57 | 266 | 1,102 | 560 | 197 | 82 |
| DF | | 30 | 1 | 89 | 116 | .429 | 2.11 | 1.29 | 72.4 | 343.3 | 2.65 | 93 | 442 | 196 | 69 | 33 |
| DF | | 31 | 1 | 82 | 123 | .402 | 2.11 | 1.20 | 74.6 | 323.3 | 2.56 | 90 | 390 | 190 | 67 | 29 |
| DF | | Totals | 89 | 86 | 99 | 95.563 | 187.37 | 206.08 | 32.8 | 133.1 | 192.86 | 6,767 | 27,424 | 14,272 | 5,008 | 2,029 |
| WH | T | 14 | 1 | 85 | 99 | 1.969 | 2.11 | 3.94 | 19.3 | 75.0 | 2.43 | 76 | 295 | 180 | 56 | 22 |
| WH | T | 15 | 1 | 88 | 96 | 1.716 | 2.11 | 3.43 | 22.6 | 95.0 | 2.48 | 78 | 326 | 184 | 57 | 24 |
| WH | T | 17 | 1 | 86 | 100 | 1.336 | 2.11 | 2.67 | 29.6 | 115.0 | 2.53 | 79 | 307 | 187 | 59 | 23 |
| WH | T | 21 | 1 | 86 | 104 | .875 | 2.11 | 2.63 | 31.8 | 133.3 | 2.68 | 84 | 350 | 198 | 62 | 26 |
| WH | | Totals | 4 | 86 | 99 | 5.896 | 8.42 | 12.67 | 25.0 | 100.9 | 10.12 | 316 | 1,279 | 749 | 234 | 95 |
| WH | L | 10 | 1 | 91 | 81 | 3.860 | 2.11 | 7.72 | 7.1 | 35.0 | 1.74 | 55 | 270 | 129 | 40 | 20 |
| WH | L | 11 | 2 | 89 | 88 | 6.380 | 4.21 | 12.76 | 10.0 | 42.5 | 4.08 | 128 | 542 | 302 | 94 | 40 |
| WH | | Totals | 3 | 90 | 85 | 10.240 | 6.32 | 20.48 | 8.9 | 39.7 | 5.83 | 182 | 812 | 431 | 135 | 60 |
| NF | L | 23 | 1 | 86 | 118 | .730 | 2.11 | 2.19 | 41.5 | 133.3 | 2.18 | 91 | 292 | 161 | 67 | 22 |
| NF | | Totals | 1 | 86 | 118 | .730 | 2.11 | 2.19 | 41.5 | 133.3 | 2.18 | 91 | 292 | 161 | 67 | 22 |
| Totals | | | 97 | 86 | 98 | 112.428 | 204.21 | 241.41 | 30.5 | 123.5 | 210.99 | 7356 | 29,807 | 15,613 | 5,444 | 2,206 |

| | | | | | | | | | | | | | | | | | | | | | |
|-------------------|-----|-----|--------|--|-------|-------|--------------|--|-----------|-------------------|------------|-----|-------|-------|-------|-------|-------|-------|-------|-----|--|
| TC TLOGSTVB | | | | Log Stock Table - MBF Project: BLAZIFIN | | | | | | | | | | | | | | | | | |
| T01N R06W S24 TMC | | | | | | | | | | T01N R06W S24 TMC | | | | | | | | | | | |
| Twp | Rge | Sec | Tract | Type | Acres | Plots | Sample Trees | Page | 1 | | | | | | | | | | | | |
| 01N | 06W | 24 | A1 | MC | 74.00 | 19 | 97 | Date | 6/23/2015 | | | | | | | | | | | | |
| | | | | | | | | | | Time | 12:58:28PM | | | | | | | | | | |
| S So Gr Log | | | | Gross | % | Net | % | Net Volume by Scaling Diameter in Inches | | | | | | | | | | | | | |
| Spp | T | rt | de | Len | MBF | Def | MBF | Spc | 2-3 | 4-5 | 6-7 | 8-9 | 10-11 | 12-13 | 14-15 | 16-19 | 20-23 | 24-29 | 30-39 | 40+ | |
| DF | | | CU | 4 | | | | | | | | | | | | | | | | | |
| DF | | | CU | 10 | | | | | | | | | | | | | | | | | |
| DF | | | CU | 16 | | | | | | | | | | | | | | | | | |
| DF | | | 2M | 32 | 20 | | 20 | 1.0 | | | | | | | | 20 | | | | | |
| DF | | | 2M | 40 | 1,024 | .4 | 1,020 | 50.3 | | | | | | 222 | 347 | 380 | 70 | | | | |
| DF | | | 3M | 24 | 5 | | 5 | .3 | | | | | 5 | | | | | | | | |
| DF | | | 3M | 32 | 184 | .4 | 184 | 9.1 | | | 22 | 62 | 99 | | | | | | | | |
| DF | | | 3M | 36 | 39 | | 39 | 1.9 | | | 33 | 6 | | | | | | | | | |
| DF | | | 3M | 40 | 647 | .3 | 645 | 31.8 | | | 94 | 152 | 196 | 203 | | | | | | | |
| DF | | | 4M | 12 | 15 | | 15 | .7 | | | 13 | 2 | | | | | | | | | |
| DF | | | 4M | 16 | 32 | | 32 | 1.6 | | | 32 | | | | | | | | | | |
| DF | | | 4M | 18 | 13 | | 13 | .7 | | | 13 | | | | | | | | | | |
| DF | | | 4M | 20 | 18 | | 18 | .9 | | | 18 | | | | | | | | | | |
| DF | | | 4M | 24 | 19 | | 19 | .9 | | | 15 | 4 | | | | | | | | | |
| DF | | | 4M | 26 | 11 | | 11 | .6 | | | 11 | | | | | | | | | | |
| DF | | | 4M | 28 | 7 | | 7 | .3 | | | 7 | | | | | | | | | | |
| DF | | | 4M | 30 | 2 | | 2 | .1 | | | 2 | | | | | | | | | | |
| DF | | | Totals | | 2,036 | | 2,029 | 92.0 | | | 260 | 227 | 300 | 425 | 347 | 400 | 70 | | | | |
| WH | L | | 3M | 32 | 34 | | 34 | 21.8 | | | 17 | 17 | | | | | | | | | |
| WH | L | | 3M | 40 | 17 | | 17 | 10.7 | | | 17 | | | | | | | | | | |
| WH | L | | 4M | 12 | 5 | | 5 | 3.4 | | | 5 | | | | | | | | | | |
| WH | L | | 4M | 16 | 5 | | 5 | 3.1 | | | 5 | | | | | | | | | | |
| WH | T | | 2M | 40 | 19 | | 19 | 12.1 | | | | | | | 19 | | | | | | |
| WH | T | | 3M | 24 | 6 | | 6 | 3.8 | | | | | 6 | | | | | | | | |
| WH | T | | 3M | 34 | 5 | | 5 | 3.2 | | | 5 | | | | | | | | | | |
| WH | T | | 3M | 40 | 54 | | 54 | 35.1 | | | | 17 | 37 | | | | | | | | |
| WH | T | | 4M | 18 | 1 | | 1 | .8 | | | 1 | | | | | | | | | | |
| WH | T | | 4M | 24 | 5 | | 5 | 3.3 | | | 5 | | | | | | | | | | |
| WH | T | | 4M | 26 | 4 | | 4 | 2.8 | | | 4 | | | | | | | | | | |
| WH | | | Totals | | 155 | | 155 | 7.0 | | | 59 | 34 | 43 | | 19 | | | | | | |
| NF | L | | 2M | 40 | 22 | 27.5 | 16 | 72.5 | | | | | | | | 16 | | | | | |
| NF | L | | 3M | 40 | 8 | 40.0 | 5 | 22.5 | | | | | 5 | | | | | | | | |
| NF | L | | 4M | 12 | 1 | | 1 | 5.0 | | | 1 | | | | | | | | | | |
| NF | | | Totals | | 31 | 29.8 | 22 | 1.0 | | | 1 | | 5 | | | 16 | | | | | |
| Total All Species | | | | | 2,221 | | 2,206 | 100.0 | | | 320 | 261 | 348 | 425 | 366 | 416 | 70 | | | | |

| | | | | | | | | | | | |
|--|--------|--------|-------------------|------------|-----------|---------|-------|-----------------|-----------|-----------|-------|
| TC TSTATS | | | | STATISTICS | | | | PAGE | 1 | | |
| | | | | PROJECT | BLAZIFIN | | | DATE | 6/23/2015 | | |
| TWP | RGE | SECT | TRACT | TYPE | ACRES | PLOTS | TREES | CuFt | BdFt | | |
| 01N | 06W | 24 | A2 | MC | 43.00 | 12 | 68 | S | W | | |
| | | | | | | | | | | | |
| | | | | TREES | ESTIMATED | PERCENT | | | | | |
| | | | | PER PLOT | TOTAL | SAMPLE | | | | | |
| | | | | | TREES | TREES | | | | | |
| TOTAL | | 12 | 68 | 5.7 | | | | | | | |
| CRUISE | | 12 | 68 | 5.7 | 3,958 | 1.7 | | | | | |
| DBH COUNT | | | | | | | | | | | |
| REFOREST | | | | | | | | | | | |
| COUNT | | | | | | | | | | | |
| BLANKS | | | | | | | | | | | |
| 100 % | | | | | | | | | | | |
| STAND SUMMARY | | | | | | | | | | | |
| | | SAMPLE | TREES | AVG | BOLE | REL | BASAL | GROSS | NET | GROSS | NET |
| | | TREES | /ACRE | DBH | LEN | DEN | AREA | BF/AC | BF/AC | CF/AC | CF/AC |
| DOUG FIR | | 62 | 84.0 | 21.2 | 110 | 44.9 | 206.7 | 37,411 | 37,411 | 8,449 | 8,449 |
| NOB FIR | | 6 | 8.0 | 21.4 | 114 | 4.3 | 20.0 | 4,245 | 4,245 | 898 | 898 |
| TOTAL | | 68 | 92.0 | 21.2 | 110 | 49.2 | 226.7 | 41,656 | 41,656 | 9,348 | 9,348 |
| CONFIDENCE LIMITS OF THE SAMPLE | | | | | | | | | | | |
| 68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR | | | | | | | | | | | |
| CL: | 68.1 % | COEFF | SAMPLE TREES - BF | | | | | # OF TREES REQ. | | INF. POP. | |
| SD: | 1.0 | VAR.% | S.E.% | LOW | AVG | HIGH | 5 10 | | 15 | | |
| DOUG FIR | | 57.2 | 7.3 | 533 | 574 | 616 | | | | | |
| NOB FIR | | 56.3 | 25.1 | 476 | 635 | 794 | | | | | |
| TOTAL | | 56.7 | 6.9 | 540 | 580 | 620 | 128 | 32 | 14 | | |
| CL: | 68.1 % | COEFF | SAMPLE TREES - CF | | | | | # OF TREES REQ. | | INF. POP. | |
| SD: | 1.0 | VAR.% | S.E.% | LOW | AVG | HIGH | 5 10 | | 15 | | |
| DOUG FIR | | 50.1 | 6.4 | 118 | 126 | 134 | | | | | |
| NOB FIR | | 48.8 | 21.7 | 103 | 131 | 160 | | | | | |
| TOTAL | | 49.6 | 6.0 | 119 | 126 | 134 | 98 | 25 | 11 | | |
| CL: | 68.1 % | COEFF | TREES/ACRE | | | | | # OF PLOTS REQ. | | INF. POP. | |
| SD: | 1.0 | VAR.% | S.E.% | LOW | AVG | HIGH | 5 10 | | 15 | | |
| DOUG FIR | | 48.9 | 14.7 | 72 | 84 | 96 | | | | | |
| NOB FIR | | 174.0 | 52.4 | 4 | 8 | 12 | | | | | |
| TOTAL | | 43.4 | 13.1 | 80 | 92 | 104 | 82 | 20 | 9 | | |
| CL: | 68.1 % | COEFF | BASAL AREA/ACRE | | | | | # OF PLOTS REQ. | | INF. POP. | |
| SD: | 1.0 | VAR.% | S.E.% | LOW | AVG | HIGH | 5 10 | | 15 | | |
| DOUG FIR | | 33.9 | 10.2 | 186 | 207 | 228 | | | | | |
| NOB FIR | | 180.9 | 54.5 | 9 | 20 | 31 | | | | | |
| TOTAL | | 34.8 | 10.5 | 203 | 227 | 250 | 53 | 13 | 6 | | |
| CL: | 68.1 % | COEFF | NET BF/ACRE | | | | | # OF PLOTS REQ. | | INF. POP. | |
| SD: | 1.0 | VAR.% | S.E.% | LOW | AVG | HIGH | 5 10 | | 15 | | |
| DOUG FIR | | 39.3 | 11.8 | 32,987 | 37,411 | 41,835 | | | | | |
| NOB FIR | | 186.9 | 56.3 | 1,856 | 4,245 | 6,633 | | | | | |
| TOTAL | | 43.3 | 13.0 | 36,226 | 41,656 | 47,085 | 82 | 20 | 9 | | |
| CL: | 68.1 % | COEFF | NET CUFT FT/ACRE | | | | | # OF PLOTS REQ. | | INF. POP. | |
| SD: | 1.0 | VAR.% | S.E.% | LOW | AVG | HIGH | 5 10 | | 15 | | |
| DOUG FIR | | 37.4 | 11.3 | 7,497 | 8,449 | 9,402 | | | | | |
| NOB FIR | | 184.6 | 55.6 | 399 | 898 | 1,398 | | | | | |
| TOTAL | | 40.0 | 12.1 | 8,221 | 9,348 | 10,475 | 70 | 17 | 8 | | |

| T | | TSPCSTGR | | Species, Sort Grade - Board Foot Volumes (Type) | | | | | | | | | | Page | | 1 | | | | | | | | | |
|-------------------|--|----------|--|---|--|-------|--|------------------|--|------------------------------------|--|------------------|--|-------------------------------|--|------------|--|-------------------------|--|----------------|--|------------------------------|--|----------------------|--|
| | | | | Project: BLAZIFIN | | | | | | | | | | Date | | 6/23/2015 | | | | | | | | | |
| | | | | | | | | | | | | | | Time | | 12:58:27PM | | | | | | | | | |
| T01N R06W S24 TMC | | | | | | | | | | T01N R06W S24 TMC | | | | | | | | | | | | | | | |
| Twp | | Rge | | Sec | | Tract | | Type | | Acres | | Plots | | Sample Trees | | CuFt | | BdFt | | | | | | | |
| 01N | | 06W | | 24 | | A2 | | MC | | 43.00 | | 12 | | 68 | | S | | W | | | | | | | |
| S Spp | | So T | | Gr rt | | ad | | % Net BdFt | | Bd. Ft. per Acre Def% Gross Net | | Total Net MBF | | Percent Net Board Foot Volume | | | | | | Average Log | | | | Logs Per /Acre | |
| | | | | | | | | | | | | | | Log Scale Dia. | | | | Log Length | | | | Ln Dia Bd CF/ Ft In Ft Lf | | | |
| | | | | | | | | | | | | | | 4-5 6-11 12-16 17+ | | | | 12-20 21-30 31-35 36-99 | | | | | | | |
| DF | | | | CU | | | | | | | | | | | | | | 6 12 0.00 | | | | 8.7 | | | |
| DF | | | | 2M | | 69 | | 26,178 26,178 | | 1,126 | | 44 56 | | | | 2 98 | | | | 39 16 381 1.99 | | | | 68.7 | |
| DF | | | | 3M | | 27 | | 9,952 9,952 | | 428 | | 76 24 | | | | 17 83 | | | | 38 9 117 0.83 | | | | 84.9 | |
| DF | | | | 4M | | 4 | | 1,281 1,281 | | 55 | | 100 | | | | 60 40 | | | | 18 6 22 0.41 | | | | 59.3 | |
| DF | | Totals | | | | 90 | | 37,411 37,411 | | 1,609 | | 24 37 39 | | | | 4 1 5 90 | | | | 32 10 169 1.21 | | | | 221.6 | |
| NF | | | | 2M | | 77 | | 3,303 3,303 | | 142 | | 49 51 | | | | 100 | | | | 40 15 380 1.85 | | | | 8.7 | |
| NF | | | | 3M | | 20 | | 819 819 | | 35 | | 48 52 | | | | 27 73 | | | | 37 8 109 0.77 | | | | 7.5 | |
| NF | | | | 4M | | 3 | | 123 123 | | 5 | | 100 | | | | 23 77 | | | | 22 6 31 0.50 | | | | 4.0 | |
| NF | | Totals | | | | 10 | | 4,245 4,245 | | 183 | | 12 48 40 | | | | 1 2 5 92 | | | | 35 11 210 1.26 | | | | 20.2 | |
| Type Totals | | | | | | | | 41,656 41,656 | | 1,791 | | 22 38 39 | | | | 3 1 5 90 | | | | 32 10 172 1.21 | | | | 241.8 | |

| | | | | | | | | | | | | | | | | | | | |
|-------------------|---------|----------|------------|--|----------|------------|--------------|--|------------|-------------------|-----|-------|-------|-------|-------|-------|-------|-------|-----|
| TC TLOGSTVB | | | | Log Stock Table - MBF Project: BLAZIFIN | | | | | | | | | | | | | | | |
| T01N R06W S24 TMC | | | | | | | | | | T01N R06W S24 TMC | | | | | | | | | |
| Twp | Rge | Sec | Tract | Type | Acres | Plots | Sample Trees | Page | 1 | | | | | | | | | | |
| 01N | 06W | 24 | A2 | MC | 43.00 | 12 | 68 | Date | 6/23/2015 | | | | | | | | | | |
| | | | | | | | | Time | 12:58:28PM | | | | | | | | | | |
| S Spp | So T | Gr rt | Log Len | Gross MBF | % Def | Net MBF | % Spc | Net Volume by Scaling Diameter in Inches | | | | | | | | | | | |
| | | | | | | | | 2-3 | 4-5 | 6-7 | 8-9 | 10-11 | 12-13 | 14-15 | 16-19 | 20-23 | 24-29 | 30-39 | 40+ |
| DF | | CU | 3 | | | | | | | | | | | | | | | | |
| DF | | CU | 4 | | | | | | | | | | | | | | | | |
| DF | | CU | 6 | | | | | | | | | | | | | | | | |
| DF | | CU | 12 | | | | | | | | | | | | | | | | |
| DF | | 2M | 20 | 28 | | 28 | 1.7 | | | | | | 11 | 16 | | | | | |
| DF | | 2M | 40 | 1,098 | | 1,098 | 68.3 | | | | 171 | | 252 | 468 | 183 | 23 | | | |
| DF | | 3M | 32 | 74 | | 74 | 4.6 | | | 17 | 40 | 18 | | | | | | | |
| DF | | 3M | 36 | 14 | | 14 | .9 | | | 8 | | 6 | | | | | | | |
| DF | | 3M | 38 | 8 | | 8 | .5 | | | 8 | | | | | | | | | |
| DF | | 3M | 40 | 332 | | 332 | 20.6 | | | 32 | 66 | 135 | 98 | | | | | | |
| DF | | 4M | 12 | 11 | | 11 | .7 | | | 8 | 2 | | | | | | | | |
| DF | | 4M | 14 | 1 | | 1 | .0 | | | 1 | | | | | | | | | |
| DF | | 4M | 16 | 3 | | 3 | .2 | | | 3 | | | | | | | | | |
| DF | | 4M | 18 | 6 | | 6 | .4 | | | 6 | | | | | | | | | |
| DF | | 4M | 20 | 13 | | 13 | .8 | | | 13 | | | | | | | | | |
| DF | | 4M | 24 | 5 | | 5 | .3 | | | 5 | | | | | | | | | |
| DF | | 4M | 26 | 13 | | 13 | .8 | | | 13 | | | | | | | | | |
| DF | | 4M | 30 | 3 | | 3 | .2 | | | 3 | | | | | | | | | |
| DF | | Totals | | 1,609 | | 1,609 | 89.8 | | | 117 | 108 | 152 | 276 | 264 | 484 | 183 | 23 | | |
| NF | | 2M | 40 | 142 | | 142 | 77.8 | | | | | 35 | 34 | 48 | 25 | | | | |
| NF | | 3M | 32 | 9 | | 9 | 5.2 | | | 2 | | 7 | | | | | | | |
| NF | | 3M | 38 | 5 | | 5 | 3.0 | | | 5 | | | | | | | | | |
| NF | | 3M | 40 | 20 | | 20 | 11.1 | | | 2 | | 18 | | | | | | | |
| NF | | 4M | 16 | 1 | | 1 | .7 | | | 1 | | | | | | | | | |
| NF | | 4M | 24 | 3 | | 3 | 1.6 | | | 3 | | | | | | | | | |
| NF | | 4M | 26 | 1 | | 1 | .6 | | | 1 | | | | | | | | | |
| NF | | Totals | | 183 | | 183 | 10.2 | | | 15 | | 7 | 53 | 34 | 48 | 25 | | | |
| Total All Species | | | | 1,791 | | 1,791 | 100.0 | | | 133 | 108 | 160 | 329 | 298 | 532 | 209 | 23 | | |

| TC TSTNDSUM | | | | Stand Table Summary | | | | | | | | | | | |
|-------------------|-----|--------|--------|---------------------|----------------|-------------|--------------|------------------|------------|---------------|-------------------|--------|--------|-------|-------|
| Project BLAZIFIN | | | | | | | | | | | | | | | |
| T01N R06W S24 TMC | | | | | | | | | | | T01N R06W S24 TMC | | | | |
| Twp | Rge | Sec | Tract | Type | Acres | Plots | Sample Trees | Page: 1 | | | | | | | |
| 01N | 06W | 24 | A2 | MC | 43.00 | 12 | 68 | Date: 06/23/20 | | | | | | | |
| | | | | | | | | Time: 12:58:27PM | | | | | | | |
| S Spec | T | Sample | | Av | Trees/ Acre | BA/ Acre | Logs Acre | Average Log | | Tons/ Acre | Net | Net | Totals | | |
| | | DBH | Trees | FF 16' | | | | Ht Tot | Net Cu.Ft. | | Net Bd.Ft. | Tons | Cunits | MBF | |
| DF | | 14 | 2 | 87 79 | 6.236 | 6.67 | 12.47 | 14.3 | 50.0 | 5.10 | 179 | 624 | 219 | 77 | 27 |
| DF | | 15 | 3 | 87 80 | 8.149 | 10.00 | 13.58 | 19.7 | 70.0 | 7.61 | 267 | 951 | 327 | 115 | 41 |
| DF | | 17 | 3 | 87 95 | 6.344 | 10.00 | 12.69 | 25.5 | 100.0 | 9.22 | 323 | 1,269 | 396 | 139 | 55 |
| DF | | 18 | 6 | 88 102 | 11.318 | 20.00 | 26.41 | 26.8 | 107.1 | 20.15 | 707 | 2,829 | 866 | 304 | 122 |
| DF | | 19 | 4 | 87 115 | 6.772 | 13.33 | 15.24 | 33.9 | 136.7 | 14.72 | 516 | 2,082 | 633 | 222 | 90 |
| DF | | 20 | 2 | 88 145 | 3.056 | 6.67 | 9.17 | 34.5 | 160.0 | 9.02 | 317 | 1,467 | 388 | 136 | 63 |
| DF | | 21 | 9 | 88 107 | 12.473 | 30.00 | 34.65 | 33.2 | 136.8 | 32.82 | 1,152 | 4,740 | 1,411 | 495 | 204 |
| DF | | 22 | 4 | 89 130 | 5.051 | 13.33 | 13.89 | 43.9 | 200.0 | 17.36 | 609 | 2,778 | 747 | 262 | 119 |
| DF | | 24 | 3 | 88 122 | 3.183 | 10.00 | 9.55 | 45.8 | 210.0 | 12.46 | 437 | 2,005 | 536 | 188 | 86 |
| DF | | 25 | 6 | 89 128 | 5.867 | 20.00 | 17.60 | 51.5 | 236.1 | 25.84 | 907 | 4,156 | 1,111 | 390 | 179 |
| DF | | 26 | 2 | 87 131 | 1.808 | 6.67 | 5.42 | 53.6 | 255.0 | 8.29 | 291 | 1,383 | 357 | 125 | 59 |
| DF | | 27 | 8 | 89 122 | 6.707 | 26.67 | 20.96 | 56.3 | 262.0 | 33.64 | 1,180 | 5,491 | 1,447 | 508 | 236 |
| DF | | 28 | 3 | 88 134 | 2.339 | 10.00 | 7.02 | 68.7 | 331.1 | 13.73 | 482 | 2,323 | 590 | 207 | 100 |
| DF | | 29 | 3 | 89 125 | 2.180 | 10.00 | 6.54 | 70.0 | 337.8 | 13.05 | 458 | 2,209 | 561 | 197 | 95 |
| DF | | 30 | 3 | 89 126 | 2.037 | 10.00 | 6.11 | 75.8 | 375.6 | 13.19 | 463 | 2,295 | 567 | 199 | 99 |
| DF | | 34 | 1 | 89 132 | .529 | 3.33 | 1.59 | 101.8 | 510.0 | 4.60 | 161 | 809 | 198 | 69 | 35 |
| DF | | Totals | 62 | 88 110 | 84.048 | 206.67 | 212.88 | 39.7 | 175.7 | 240.81 | 8,449 | 37,411 | 10,355 | 3,633 | 1,609 |
| NF | | 17 | 1 | 90 106 | 2.115 | 3.33 | 4.23 | 31.1 | 130.0 | 3.16 | 132 | 550 | 136 | 57 | 24 |
| NF | | 19 | 1 | 90 87 | 1.693 | 3.33 | 3.39 | 31.8 | 120.0 | 2.59 | 108 | 406 | 111 | 46 | 17 |
| NF | | 21 | 1 | 91 111 | 1.386 | 3.33 | 4.16 | 34.2 | 166.7 | 3.41 | 142 | 693 | 147 | 61 | 30 |
| NF | | 24 | 1 | 91 138 | 1.061 | 3.33 | 3.18 | 54.9 | 273.3 | 4.19 | 175 | 870 | 180 | 75 | 37 |
| NF | | 26 | 1 | 91 127 | .904 | 3.33 | 2.71 | 60.0 | 290.0 | 3.90 | 163 | 787 | 168 | 70 | 34 |
| NF | | 27 | 1 | 90 143 | .838 | 3.33 | 2.52 | 71.3 | 373.3 | 4.31 | 179 | 939 | 185 | 77 | 40 |
| NF | | Totals | 6 | 90 113 | 7.997 | 20.00 | 20.18 | 44.5 | 210.3 | 21.56 | 898 | 4,245 | 927 | 386 | 183 |
| Totals | | 68 | 88 110 | | 92.045 | 226.67 | 233.06 | 40.1 | 178.7 | 262.37 | 9348 | 41,656 | 11,282 | 4,020 | 1,791 |

VOLUME SUMMARY

(Shown in MBF)

Blazing Saddles**341-16-04****June 2015****AREA 1 MC (74 ACRES)**

| SPECIES | | 2 SAW | 3 SAW | 4 SAW | TOTAL |
|-----------------|------------------|-------|-------|-------|-------|
| Douglas-fir | Cruise Volume | 1,040 | 873 | 117 | 2,030 |
| | Hidden D&B (2%) | (21) | (17) | (2) | (41) |
| | NET TOTAL | 1,019 | 856 | 115 | 1,989 |
| | % of Total | 51 | 43 | 6 | |
| Western hemlock | Cruise Volume | 19 | 65 | 11 | 95 |
| | Hidden D&B (2%) | () | (1) | () | (2) |
| | NET TOTAL | 19 | 64 | 11 | 93 |
| | % of Total | 20 | 69 | 12 | |

AREA 2 MC (43 ACRES)

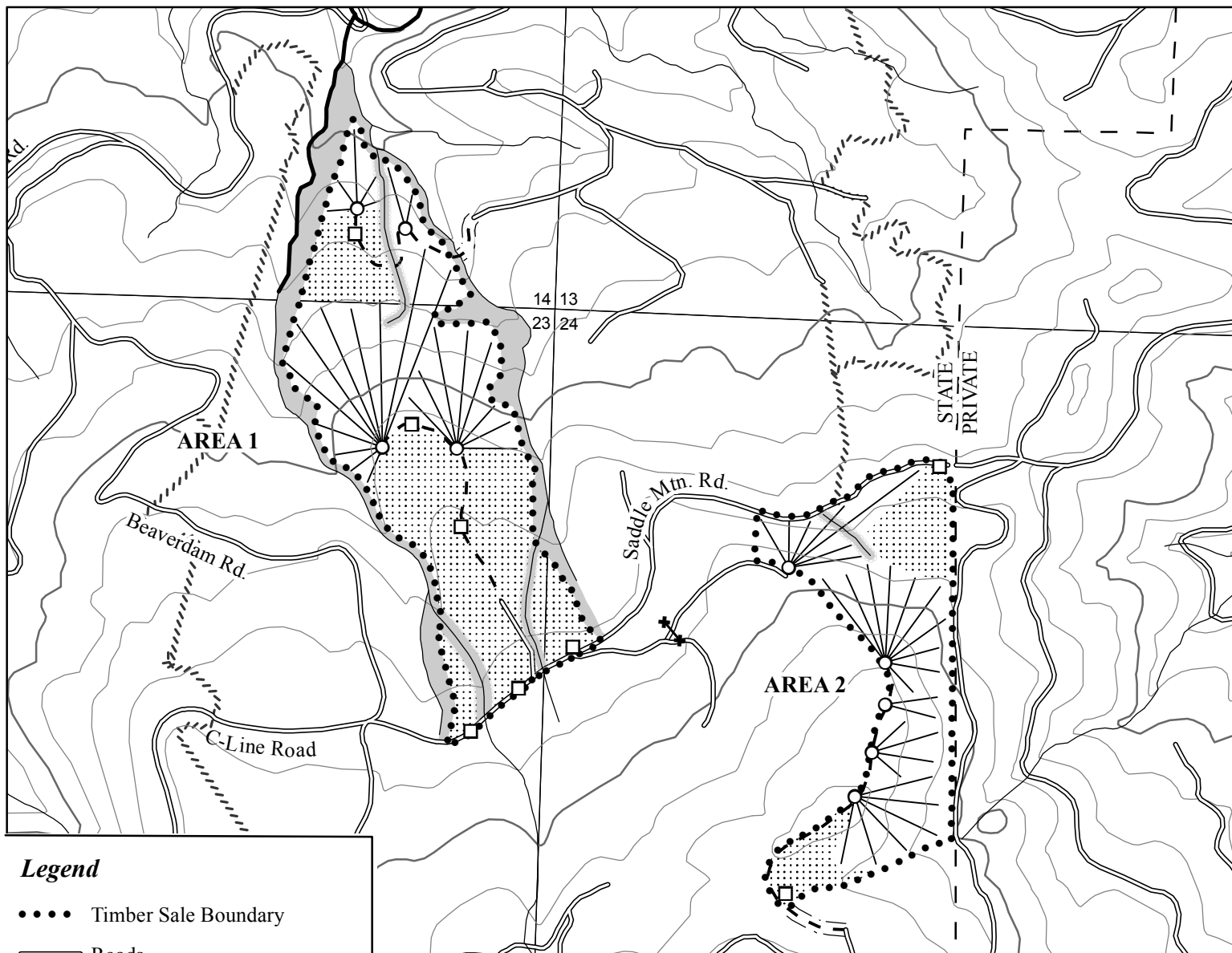
| SPECIES | | 2 SAW | 3 SAW | 4 SAW | TOTAL |
|-------------|------------------|-------|-------|-------|-------|
| Douglas-fir | Cruise Volume | 1,126 | 428 | 55 | 1,609 |
| | Hidden D&B (2%) | (23) | (9) | (1) | (32) |
| | NET TOTAL | 1,103 | 419 | 54 | 1,577 |
| | % of Total | 70 | 27 | 3 | |
| Noble fir | Cruise Volume | 142 | 35 | 5 | 182 |
| | Hidden D&B (2%) | (3) | (1) | () | (4) |
| | NET TOTAL | 139 | 34 | 5 | 178 |
| | % of Total | 78 | 19 | 3 | |

AREA 3 R/W (1 ACRE)

| SPECIES | | 2 SAW | 3 SAW | 4 SAW | TOTAL |
|-------------|------------------|-------|-------|-------|-------|
| Douglas-fir | Cruise Volume | 14 | 12 | 1 | 27 |
| | Hidden D&B (2%) | () | () | () | (1) |
| | NET TOTAL | 14 | 12 | 1 | 26 |
| | % of Total | 54 | 46 | 4 | |

SALE TOTAL

| SPECIES | 2 SAW | 3 SAW | 4 SAW | TOTAL |
|-----------------|-------|-------|-------|-------|
| Douglas-fir | 2,136 | 1,287 | 170 | 3,593 |
| Western hemlock | 19 | 64 | 11 | 94 |
| Noble fir | 139 | 34 | 5 | 178 |
| | | | | 3,865 |



Legend

- Timber Sale Boundary
- Roads
- - - New Road Construction
- - - Posted Right of Way
- Type F Stream
- Type N Stream
- Stream Buffer
- Posted Stream Buffer Boundary
- Cable Landing
- Tractor Landing
- ▵ Cable Yarding Area
- ▴ Tractor Yarding Area
- ▭ ODF Ownership Boundary
- ▭ Sections
- 400 Foot Contour Band
- 80 Foot Contour Band
- ▬ AREA 3 R/W
- *-* Blockage

LOGGING PLAN

FOR TIMBER SALE CONTRACT # 341-16-04
BLAZING SADDLES
PORTIONS OF SECTIONS 14, 23, & 24, T1N, R6W, W.M.
TILLAMOOK COUNTY, OREGON

Forest Grove District GIS
June, 2015

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



APPROXIMATE NET ACRES

| | TRACTOR | CABLE |
|--------------|---------|-------|
| AREA 1 | 38 | 36 |
| AREA 2 | 10 | 33 |
| AREA 3 (R/W) | 1 | 0 |
| TOTAL | 49 | 69 |

1:12,000

1 inch = 1,000 feet

