



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal  
Back in the Saddle  
Sale 341-14-27

District: Tillamook

Date: August 06, 2013

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**cost summary**

|                            | Conifer      | Hardwood          | Total          |
|----------------------------|--------------|-------------------|----------------|
| Gross Timber<br>Sale Value | \$399,990.60 | \$30,436.28       | \$430,426.88   |
|                            |              | Project Work:     | \$(181,580.00) |
|                            |              | Advertised Value: | \$248,846.88   |



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**District:** Tillamook

**Date:** August 06, 2013

## timber description

**Location:** Portions of Sections 29, 30, and 31, T1N, R8W, W.M., Tillamook County, Oregon.

**Stand Stocking:** 60%

| SpecieName            | AvgDBH | Amortization (%) | Recovery (%) |
|-----------------------|--------|------------------|--------------|
| Douglas - Fir         | 14     | 0                | 95           |
| Western Hemlock / Fir | 14     | 0                | 95           |
| Sitka Spruce          | 21     | 0                | 95           |
| Alder (Red)           | 15     | 0                | 90           |

| Volume by Grade       | 10" - 11" | 12"+ | 2S  | 3S    | 4S  | 6" - 7" | 8" - 9" | Total |
|-----------------------|-----------|------|-----|-------|-----|---------|---------|-------|
| Douglas - Fir         | 0         | 0    | 268 | 863   | 282 | 0       | 0       | 1,413 |
| Western Hemlock / Fir | 0         | 0    | 104 | 222   | 118 | 0       | 0       | 444   |
| Sitka Spruce          | 0         | 0    | 70  | 13    | 10  | 0       | 0       | 93    |
| Alder (Red)           | 14        | 60   | 0   | 0     | 0   | 23      | 45      | 142   |
| Total                 | 14        | 60   | 442 | 1,098 | 410 | 23      | 45      | 2,092 |



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comments: Pond Values Used: 2nd Quarter Calendar Year 2013.

Western redcedar and Other Cedars Stumpage Price = Pond Value  
minus Logging Cost:  
 $\$650/\text{MBF} = \$950/\text{MBF} - \$300/\text{MBF}$

Pulp (Conifer and Hardwood) Price =  $\$25/\text{MBF}$

SCALING COST ALLOWANCE =  $\$5.00/\text{MBF}$

FUEL COST ALLOWANCE =  $\$4.00/\text{Gallon}$

HAULING COST ALLOWANCE

Hauling costs equivalent to  $\$780$  daily truck cost.

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

Brand and Paint:  $\$2/\text{MBF} \times 2,092 \text{ MBF} = \$4,184$

Snag Creation (girdling):  $\$10/\text{snag} \times 111 \text{ snags} = \$1,110$

TOTAL Other Costs (with Profit & Risk to be added) =  $\$5,294$

Other Costs (No Profit & Risk added):

Non-Project Roads:

Road 1 =  $810' \times \$200/100' = \$1,620$

Road 2 =  $860' \times \$150/100' = \$1,290$

Non-Project Road Blocking:  $\$50/\text{block} \times 2 \text{ roads} = \$100$

Equipment Cleaning:  $2 \text{ machines} \times \$1,000 \text{ per machine} \times 1 \text{ season} = \$2,000$

Slash Piling and Sorting:  $\$5/\text{acre} \times 85 \text{ (cable) acres} = \$425$

Cover material for piles:  $5 \text{ piles} \times \$5/\text{pile} = \$25$

TOTAL Other Costs (No Profit & Risk added) =  $\$5,460$

ROAD MAINTENANCE

Road Maintenance: In unit roads and haul routes out the Kilchis Forest Road:

250 Saddle Bypass, Sam Downs, Kilchis Forest Roads: 9.0 miles

Interim Grading:  $\$250/\text{mile} \times 9.0 \text{ miles} \times 1 \text{ time} / 2,092 \text{ MBF} = \$1.08/\text{MBF}$

Final maintenance grading:  $\$500/\text{mile} \times 9.0 \text{ miles} / 2,092 \text{ MBF} = \$2.15/\text{MBF}$

250 Saddle Roads: 3.3 miles

Final maintenance grading:  $\$500/\text{mile} \times 3.3 \text{ miles} / 2,092 \text{ MBF} = \$0.79/\text{MBF}$

Spot rocking:  $250\text{cy} \times \$23.29/\text{cy} / 2,092 \text{ MBF} = \$2.78/\text{MBF}$

Vibratory Roller:  $4.2 \text{ miles} \times 52.8 \text{ stations/mile} \times \$17.75/\text{station} = 3,936.24 / 2,092 \text{ MBF} = \$1.88/\text{MBF}$

Total Road Maintenance:  $\$8.68/\text{MBF}$



"STEWARDSHIP IN FORESTRY"

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## logging conditions

**combination#: 1**

|                       |        |
|-----------------------|--------|
| Douglas - Fir         | 75.00% |
| Western Hemlock / Fir | 75.00% |
| Sitka Spruce          | 75.00% |

**yarding distance:** Medium (800 ft)      **downhill yarding:** No  
**logging system:** Cable: Medium Tower >40 - <70      **Process:** Stroke Delimber  
**tree size:** Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF  
**loads / day:** 3.4      **bd. ft / load:** 3,800  
**cost / mbf:** \$262.70

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

**combination#: 2**

|             |        |
|-------------|--------|
| Alder (Red) | 75.00% |
|-------------|--------|

**yarding distance:** Medium (800 ft)      **downhill yarding:** No  
**logging system:** Cable: Medium Tower >40 - <70      **Process:** Stroke Delimber  
**tree size:** Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF  
**loads / day:** 3.1      **bd. ft / load:** 3,200  
**cost / mbf:** \$337.11

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

**combination#: 3**

|                       |        |
|-----------------------|--------|
| Douglas - Fir         | 25.00% |
| Western Hemlock / Fir | 25.00% |
| Sitka Spruce          | 25.00% |

**yarding distance:** Short (400 ft)      **downhill yarding:** No  
**logging system:** Shovel      **Process:** Stroke Delimber  
**tree size:** Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF  
**loads / day:** 6.0      **bd. ft / load:** 3,500  
**cost / mbf:** \$68.49

**machines:** Stroke Delimber (B)

**combination#: 4**

|             |        |
|-------------|--------|
| Alder (Red) | 25.00% |
|-------------|--------|





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|                          |                                                                 |                          |                 |
|--------------------------|-----------------------------------------------------------------|--------------------------|-----------------|
| <b>yarding distance:</b> | Short (400 ft)                                                  | <b>downhill yarding:</b> | No              |
| <b>logging system:</b>   | Shovel                                                          | <b>Process:</b>          | Stroke Delimber |
| <b>tree size:</b>        | Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF |                          |                 |
| <b>loads / day:</b>      | 4.8                                                             | <b>bd. ft / load:</b>    | 3,000           |
| <b>cost / mbf:</b>       | \$99.05                                                         |                          |                 |
| <b>machines:</b>         | Stroke Delimber (B)                                             |                          |                 |



"STEWARDSHIP IN FORESTRY"

# Timber Sale Appraisal Back in the Saddle Sale 341-14-27

District: Tillamook

Date: August 06, 2013

## logging costs

|                    |              |                    |            |
|--------------------|--------------|--------------------|------------|
| Operating Seasons: | 1.00         | Profit Risk:       | 15.00%     |
| Project Costs:     | \$181,580.00 | Other Costs (P/R): | \$5,294.00 |
| Slash Disposal:    | \$0.00       | Other Costs:       | \$5,460.00 |

### Miles of Road

Road Maintenance: \$8.68

| Dirt | Rock<br>(Contractor) | Rock<br>(State) | Paved |
|------|----------------------|-----------------|-------|
| 0.0  | 0.0                  | 0.0             | 0.0   |

### Hauling Costs

| Species               | \$ / MBF | Trips/Day | MBF / Load |
|-----------------------|----------|-----------|------------|
| Douglas - Fir         | \$0.00   | 3.0       | 4.0        |
| Western Hemlock / Fir | \$0.00   | 4.0       | 4.0        |
| Sitka Spruce          | \$0.00   | 3.0       | 3.8        |
| Alder (Red)           | \$0.00   | 4.0       | 3.8        |



"STEWARDSHIP IN FORESTRY"

# Timber Sale Appraisal Back in the Saddle Sale 341-14-27

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## logging costs breakdown

| Logging                      | Road Maint | Fire Protect | Hauling | Other P/R appl | Profit & Risk | Slash Disposal | Scaling | Other  | Total    |
|------------------------------|------------|--------------|---------|----------------|---------------|----------------|---------|--------|----------|
| <b>Douglas - Fir</b>         |            |              |         |                |               |                |         |        |          |
| \$214.15                     | \$9.11     | \$2.10       | \$59.35 | \$2.53         | \$43.09       | \$0.00         | \$5.00  | \$2.61 | \$337.94 |
| <b>Western Hemlock / Fir</b> |            |              |         |                |               |                |         |        |          |
| \$214.15                     | \$9.11     | \$2.10       | \$44.51 | \$2.53         | \$40.86       | \$0.00         | \$5.00  | \$2.61 | \$320.87 |
| <b>Sitka Spruce</b>          |            |              |         |                |               |                |         |        |          |
| \$214.15                     | \$9.11     | \$2.10       | \$62.48 | \$2.53         | \$43.56       | \$0.00         | \$5.00  | \$2.61 | \$341.54 |
| <b>Alder (Red)</b>           |            |              |         |                |               |                |         |        |          |
| \$277.60                     | \$9.55     | \$2.10       | \$49.08 | \$2.53         | \$51.13       | \$0.00         | \$5.00  | \$2.61 | \$399.60 |

| Specie                | Amortization | Pond Value | Stumpage | Amortized |
|-----------------------|--------------|------------|----------|-----------|
| Douglas - Fir         | \$0.00       | \$562.60   | \$224.66 | \$0.00    |
| Western Hemlock / Fir | \$0.00       | \$489.37   | \$168.50 | \$0.00    |
| Sitka Spruce          | \$0.00       | \$424.68   | \$83.14  | \$0.00    |
| Alder (Red)           | \$0.00       | \$613.94   | \$214.34 | \$0.00    |



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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 |
| Sitka Spruce          | 0   | \$0.00 | \$0.00 |
| Alder (Red)           | 0   | \$0.00 | \$0.00 |

**Unamortized**

| Specie                | MBF   | Value    | Total        |
|-----------------------|-------|----------|--------------|
| Douglas - Fir         | 1,413 | \$224.66 | \$317,444.58 |
| Western Hemlock / Fir | 444   | \$168.50 | \$74,814.00  |
| Sitka Spruce          | 93    | \$83.14  | \$7,732.02   |
| Alder (Red)           | 142   | \$214.34 | \$30,436.28  |

**Gross Timber Sale Value**

Recovery: \$430,426.88

Prepared by: David Wells

Phone: 503-842-2545



## PROJECT SUMMARY SHEET

Sale: Back In The Saddle

### IMPROVEMENT

|                      |        |        |            |                     |
|----------------------|--------|--------|------------|---------------------|
| Point                | A to B | 137+63 | stations = | \$65,048.59         |
| Point                | B to C | 250+08 | stations = | \$98,890.90         |
| Point                | C to D | 93+38  | stations = | \$9,998.01          |
| Point                | D to E | 10+98  | stations = | \$937.75            |
| Point                | D to F | 17+78  | stations = | \$2,879.79          |
| SUBTOTAL IMPROVEMENT |        |        |            | <u>\$177,755.04</u> |

### SPECIAL PROJECTS

MOVE IN \$3,815.74

GRAND TOTAL \$181,570.78

SUMMARY OF CONSTRUCTION COST

|                                                      |    |                           |          |                                    |          |        |                     |                         |             |                    |
|------------------------------------------------------|----|---------------------------|----------|------------------------------------|----------|--------|---------------------|-------------------------|-------------|--------------------|
| Sale:                                                |    | <u>Back In The Saddle</u> |          |                                    |          | Road:  |                     | <u>A to B</u>           |             |                    |
| <u>Construction</u> -                                |    | 0+00                      | stations | <u>Improvement</u> -               |          | 137+63 | stations            | <u>Reconstruction</u> - |             |                    |
|                                                      |    | 0.00                      | miles    |                                    |          | 2.61   | miles               |                         |             |                    |
| <u>IMPROVEMENT:</u> Road Brushing -                  |    |                           |          |                                    |          |        |                     |                         |             |                    |
|                                                      |    |                           |          | 2.60                               | miles    | @      | \$800.00 per mile = |                         | \$2,080.00  |                    |
|                                                      |    |                           |          | <b>TOTAL CLEARING AND GRUBBING</b> |          |        |                     | <b>\$2,080.00</b>       |             |                    |
| <b>ROCK</b>                                          |    |                           |          |                                    |          |        |                     |                         |             |                    |
| 0+00                                                 | to | 137+63                    | 2,690    | cy. of                             | Crushed  | @      | \$21.94 per c.y.=   |                         | \$59,018.60 |                    |
|                                                      |    |                           |          | <b>TOTAL ROCK</b>                  |          |        |                     | <b>\$59,018.60</b>      |             |                    |
| <b>SPECIAL PROJECTS</b>                              |    |                           |          |                                    |          |        |                     |                         |             |                    |
| Grade and shape road -                               |    |                           |          | 137.63                             | stations | @      | \$15.50             | per station             | \$2,133.27  |                    |
| Roll subgrade w/ vibratory roller prior to rocking - |    |                           |          | 137.63                             | stations | @      | \$13.20             | per station             | \$1,816.72  |                    |
|                                                      |    |                           |          |                                    |          |        |                     | TOTAL SPECIAL PROJECTS  |             | <b>\$3,949.99</b>  |
|                                                      |    |                           |          |                                    |          |        |                     | <b>GRAND TOTAL</b>      |             | <b>\$65,048.59</b> |

## SUMMARY OF CONSTRUCTION COST

Sale:

**Back In The Saddle**

Road:

**B to C**

| Construction - | 0+00 | stations | Improvement - | 250+08 | stations | Reconstruction - | 0+00 | stations |
|----------------|------|----------|---------------|--------|----------|------------------|------|----------|
|                | 0.00 | miles    |               | 4.74   | miles    |                  | 0.00 | miles    |

**IMPROVEMENT:** Brushing

|                                    |      |         |          |            |            |                   |
|------------------------------------|------|---------|----------|------------|------------|-------------------|
| Roadside Brushing                  | 4.74 | miles @ | \$800.00 | per mile = | \$3,792.00 |                   |
| <b>TOTAL CLEARING AND GRUBBING</b> |      |         |          |            |            | <b>\$3,797.94</b> |

**IMPROVEMENT:** EXCAVATION -

|                                  |        |        |          |            |            |                   |
|----------------------------------|--------|--------|----------|------------|------------|-------------------|
| Road Earthwork                   | 250.08 | sta. @ | \$10.00  | per sta. = | \$2,500.80 |                   |
| Pullback                         | 134    | cy. @  | \$1.40   | per c.y. = | \$187.60   |                   |
| Widening                         | 27     | cy. @  | \$1.40   | per c.y. = | \$37.80    |                   |
| Slide Area Clean Up w/ Excavator | 4      | hr @   | \$145.00 | per hr =   | \$580.00   |                   |
| <b>TOTAL EXCAVATION</b>          |        |        |          |            |            | <b>\$3,306.20</b> |

**IMPROVEMENT:** ENDHAUL -

|                      |        |    |        |     |       |         |            |          |                 |
|----------------------|--------|----|--------|-----|-------|---------|------------|----------|-----------------|
| Pullback             | 53+20  | to | 53+70  | 91  | cy. @ | \$4.00  | per c.y. = | \$364.00 |                 |
| Pullback             | 63+00  | to | 63+50  | 43  | cy. @ | \$4.00  | per c.y. = | \$172.00 |                 |
| Widening             | 212+79 | to | 213+54 | 27  | cy. @ | \$0.93  | per c.y. = | \$25.11  |                 |
| Slide Area w/ truck  | 212+79 | to | 213+54 | 4   | hr @  | \$70.00 | per hr =   | \$280.00 |                 |
| Spread & compact     |        |    |        | 165 | cy. @ | \$0.25  | per c.y. = | \$41.25  |                 |
| <b>TOTAL ENDHAUL</b> |        |    |        |     |       |         |            |          | <b>\$882.36</b> |

**CULVERTS - MATERIALS & INSTALLATION**

Culverts

|     |           |                    |    |           |                   |
|-----|-----------|--------------------|----|-----------|-------------------|
| 402 | LF of 6"  | \$2,814.00         | 0  | LF of 24" | \$0.00            |
| 80  | LF of 8"  | \$2,880.00         | 0  | LF of 36" | \$0.00            |
| 274 | LF of 18" | \$9,864.00         | 0  | LF of 48" | \$0.00            |
| 0   | LF of 42" | \$0.00             | 0  | LF of 60" | \$0.00            |
| 0   | LF of 54" | \$0.00             | 50 | LF of 72" | \$5,991.00        |
|     |           | <u>\$15,558.00</u> |    |           | <u>\$5,991.00</u> |

Culvert Markers

|            |                |
|------------|----------------|
| 10 markers | <u>\$80.00</u> |
|            | \$80.00        |

**TOTAL CULVERTS \$21,629.00**

**ROCK**

|                          |                 |       |        |            |   |         |            |             |                    |
|--------------------------|-----------------|-------|--------|------------|---|---------|------------|-------------|--------------------|
| 0+00 to                  | 110+00          | 1,660 | cy. of | Crushed    | @ | \$26.44 | per c.y. = | \$43,890.40 |                    |
| Fill Armor               | 35+60           | 30    | cy. of | Riprap     | @ | \$15.89 | per c.y. = | \$476.70    |                    |
| 72" Culvert Bedding Rock | 35+60           | 40    | cy. of | Crushed    | @ | \$26.44 | per c.y. = | \$1,057.60  |                    |
| Base Rock                | 35+60           | 20    | cy. of | Crushed    | @ | \$26.44 | per c.y. = | \$528.80    |                    |
| French Drain Ditch Rock  | 42+45 to 43+95  | 30    | cy. of | Drain Rock | @ | \$26.44 | per c.y. = | \$793.20    |                    |
| French Drain Ditch Rock  | 43+20           | 10    | cy. of | Drain Rock | @ | \$26.44 | per c.y. = | \$264.40    |                    |
| Base Rock                | 43+20           | 10    | cy. of | Crushed    | @ | \$26.44 | per c.y. = | \$264.40    |                    |
| Surface Rock             | 43+20           | 10    | cy. of | Crushed    | @ | \$26.44 | per c.y. = | \$264.40    |                    |
| Energy Dissipater        | 56+40           | 20    | cy. of | Riprap     | @ | \$26.44 | per c.y. = | \$528.80    |                    |
| Fill Ditch/Road Widening | 65+15           | 10    | cy. of | Pit-Run    | @ | \$12.77 | per c.y. = | \$127.70    |                    |
| French Drain Ditch Rock  | 67+00           | 50    | cy. of | Drain Rock | @ | \$26.44 | per c.y. = | \$1,322.00  |                    |
| Base Rock                | 67+00           | 20    | cy. of | Crushed    | @ | \$26.44 | per c.y. = | \$528.80    |                    |
| Surface Rock             | 67+00           | 30    | cy. of | Crushed    | @ | \$26.44 | per c.y. = | \$793.20    |                    |
| Fill Armor               | 68+90           | 10    | cy. of | Riprap     | @ | \$26.44 | per c.y. = | \$264.40    |                    |
| French Drain Ditch Rock  | 78+60           | 10    | cy. of | Drain Rock | @ | \$13.38 | per c.y. = | \$133.80    |                    |
| Base Rock                | 78+60           | 10    | cy. of | Crushed    | @ | \$26.44 | per c.y. = | \$264.40    |                    |
| Surface Rock             | 78+60           | 10    | cy. of | Crushed    | @ | \$13.38 | per c.y. = | \$133.80    |                    |
| French Drain Ditch Rock  | 99+35 to 101+15 | 30    | cy. of | Drain Rock | @ | \$26.44 | per c.y. = | \$793.20    |                    |
| French Drain Ditch Rock  | 99+65           | 10    | cy. of | Drain Rock | @ | \$26.44 | per c.y. = | \$264.40    |                    |
| Base Rock                | 99+65           | 10    | cy. of | Crushed    | @ | \$26.44 | per c.y. = | \$264.40    |                    |
| Surface Rock             | 99+65           | 10    | cy. of | Crushed    | @ | \$26.44 | per c.y. = | \$264.40    |                    |
| Energy Dissipater        | 196+30          | 30    | cy. of | Riprap     | @ | \$13.38 | per c.y. = | \$401.40    |                    |
| Fill Ditch/Road Widening | 215+09          | 10    | cy. of | Pit-Run    | @ | \$12.77 | per c.y. = | \$127.70    |                    |
| Culvert Bedding Rock     | mult. Locations | 120   | cy. of | Crushed    | @ | \$26.44 | per c.y. = | \$3,172.80  |                    |
| <b>TOTAL ROCK</b>        |                 |       |        |            |   |         |            |             | <b>\$56,925.10</b> |

**SPECIAL PROJECTS**

|                                                               |        |            |          |             |            |                    |
|---------------------------------------------------------------|--------|------------|----------|-------------|------------|--------------------|
| Stream development at 72" pipe                                | 2.00   | hours @    | \$125.00 | per hour    | \$250.00   |                    |
| Re-shape dented culvert inlet -                               | 1.00   | hours @    | \$28.00  | per hour    | \$28.00    |                    |
| Construct French Drains/Free Drains                           | 10.00  | hours @    | \$285.00 | per hour    | \$2,850.00 |                    |
| Grade and shape road -                                        | 250.08 | stations @ | \$15.50  | per station | \$3,876.24 |                    |
| Construct/Install rubber water diverter -                     | 1.00   | @          | \$360.00 | each        | \$360.00   |                    |
| Roll subgrade w/ vibratory roller prior to rocking (review) - | 250.08 | stations @ | \$13.20  | per station | \$3,301.06 |                    |
| Install Geotextile                                            | 3.00   | rolls @    | \$290.00 | per roll    | \$870.00   |                    |
| Remove culverts from state lands                              | 1.00   | lump sum @ | \$375.00 | total       | \$375.00   |                    |
| Grass seed and fertilize -                                    | 1.00   | acres @    | \$220.00 | per acre    | \$220.00   |                    |
| Tamping foot compacter rental & labor                         | 1.000  | lump sum @ | \$220.00 | total       | \$220.00   |                    |
| <b>TOTAL SPECIAL PROJECTS</b>                                 |        |            |          |             |            | <b>\$12,350.30</b> |

**GRAND TOTAL \$98,890.90**

SUMMARY OF CONSTRUCTION COST

|                                                      |  |               |  |                           |  |                      |  |              |  |                     |  |                         |  |                   |  |          |  |            |  |
|------------------------------------------------------|--|---------------|--|---------------------------|--|----------------------|--|--------------|--|---------------------|--|-------------------------|--|-------------------|--|----------|--|------------|--|
| Sale:                                                |  |               |  | <u>Back In The Saddle</u> |  |                      |  | Road:        |  | <u>C to D</u>       |  |                         |  |                   |  |          |  |            |  |
| <u>Construction -</u>                                |  | <u>0+00</u>   |  | stations                  |  | <u>Improvement -</u> |  | <u>93+38</u> |  | stations            |  | <u>Reconstruction -</u> |  | <u>0+00</u>       |  | stations |  |            |  |
|                                                      |  | 0.00          |  | miles                     |  |                      |  | 1.77         |  | miles               |  |                         |  | 0.00              |  | miles    |  |            |  |
| <b>IMPROVEMENT:</b> CLEARING AND GRUBBING -          |  |               |  |                           |  |                      |  |              |  |                     |  |                         |  |                   |  |          |  |            |  |
| Roadside Brushing                                    |  |               |  | 1.77                      |  | miles                |  | @            |  | \$800.00 per mile = |  |                         |  | \$1,416.00        |  |          |  |            |  |
| <b>TOTAL CLEARING AND GRUBBING</b>                   |  |               |  |                           |  |                      |  |              |  |                     |  |                         |  | <b>\$1,416.00</b> |  |          |  |            |  |
| <b>ROCK</b>                                          |  |               |  |                           |  |                      |  |              |  |                     |  |                         |  |                   |  |          |  |            |  |
| Spot Rock                                            |  | 0+00 to 93+38 |  |                           |  | 200                  |  | cy. of       |  | Crushed             |  | @                       |  | \$29.51 per c.y.= |  |          |  | \$5,902.00 |  |
| <b>TOTAL ROCK</b>                                    |  |               |  |                           |  |                      |  |              |  |                     |  |                         |  | <b>\$5,902.00</b> |  |          |  |            |  |
| <b>SPECIAL PROJECTS</b>                              |  |               |  |                           |  |                      |  |              |  |                     |  |                         |  |                   |  |          |  |            |  |
| Grade and shape road -                               |  |               |  | 93.38                     |  | stations             |  | @            |  | \$15.50             |  | per station             |  | \$1,447.39        |  |          |  |            |  |
| Roll subgrade w/ vibratory roller prior to rocking - |  |               |  | 93.38                     |  | stations             |  | @            |  | \$13.20             |  | per station             |  | \$1,232.62        |  |          |  |            |  |
| TOTAL SPECIAL PROJECTS                               |  |               |  |                           |  |                      |  |              |  |                     |  |                         |  | <b>\$2,680.01</b> |  |          |  |            |  |
| <b>GRAND TOTAL</b>                                   |  |               |  |                           |  |                      |  |              |  |                     |  |                         |  | <b>\$9,998.01</b> |  |          |  |            |  |



SUMMARY OF CONSTRUCTION COST

|                                                      |             |                           |                      |              |          |                         |                 |          |
|------------------------------------------------------|-------------|---------------------------|----------------------|--------------|----------|-------------------------|-----------------|----------|
| Sale:                                                |             | <u>Back In The Saddle</u> |                      | Road:        |          | <u>D to E</u>           |                 |          |
| <u>Construction -</u>                                | <u>0+00</u> | stations                  | <u>Improvement -</u> | <u>10+98</u> | stations | <u>Reconstruction -</u> | <u>0+00</u>     | stations |
|                                                      | 0.00        | miles                     |                      | 0.21         | miles    |                         | 0.00            | miles    |
| <b>IMPROVEMENT: CLEARING AND GRUBBING -</b>          |             |                           |                      |              |          |                         |                 |          |
| Scattering                                           |             |                           | 0.444                | acres @      | \$980.00 | per acre =              | \$435.12        |          |
| <b>TOTAL CLEARING AND GRUBBING</b>                   |             |                           |                      |              |          |                         | <b>\$435.12</b> |          |
| <b>SPECIAL PROJECTS</b>                              |             |                           |                      |              |          |                         |                 |          |
| Remove Alder from road surface with Excavator        |             |                           | 1.50                 | hours @      | \$125.00 | per hour                | \$187.50        |          |
| Grade and shape road -                               |             |                           | 10.98                | stations @   | \$15.50  | per station             | \$170.19        |          |
| Roll subgrade w/ vibratory roller prior to rocking - |             |                           | 10.98                | stations @   | \$13.20  | per station             | \$144.94        |          |
| TOTAL SPECIAL PROJECTS                               |             |                           |                      |              |          |                         | <b>\$502.63</b> |          |
| <b>GRAND TOTAL</b>                                   |             |                           |                      |              |          |                         | <b>\$937.75</b> |          |

SUMMARY OF CONSTRUCTION COST

|                                                      |  |                           |          |                                    |            |              |             |                         |          |                   |          |
|------------------------------------------------------|--|---------------------------|----------|------------------------------------|------------|--------------|-------------|-------------------------|----------|-------------------|----------|
| Sale:                                                |  | <u>Back In The Saddle</u> |          |                                    |            | Road:        |             | <u>D to F</u>           |          |                   |          |
| <u>Construction -</u>                                |  | <u>0+00</u>               | stations | <u>Improvement -</u>               |            | <u>17+78</u> | stations    | <u>Reconstruction -</u> |          | <u>0+00</u>       | stations |
|                                                      |  | 0.00                      | miles    |                                    |            | 0.34         | miles       |                         |          | 0.00              | miles    |
| <b>IMPROVEMENT:</b> CLEARING AND GRUBBING -          |  |                           |          |                                    |            |              |             |                         |          |                   |          |
| Scattering                                           |  |                           |          | 0.700                              | acres @    | \$980.00     | per acre =  | \$686.00                |          |                   |          |
|                                                      |  |                           |          | <b>TOTAL CLEARING AND GRUBBING</b> |            |              |             | <b>\$686.00</b>         |          |                   |          |
| <b>IMPROVEMENT:</b> EXCAVATION -                     |  |                           |          |                                    |            |              |             |                         |          |                   |          |
| Road Earthwork                                       |  |                           |          | 17.78                              | sta. @     | \$10.00      | per sta. =  | \$177.80                |          |                   |          |
|                                                      |  |                           |          | <b>TOTAL EXCAVATION</b>            |            |              |             | <b>\$177.80</b>         |          |                   |          |
| <b>ROCK</b>                                          |  |                           |          |                                    |            |              |             |                         |          |                   |          |
| Fill Tank Trap                                       |  | 3+30                      | 14       | cy. of                             | Pit-Run    | @            | \$11.85     | per c.y.=               | \$165.90 |                   |          |
| Widening fill                                        |  | 16+20 to 16+80            | 80       | cy. of                             | Pit-Run    | @            | \$12.06     | per c.y.=               | \$964.80 |                   |          |
|                                                      |  |                           |          | <b>TOTAL ROCK</b>                  |            |              |             | <b>\$1,130.70</b>       |          |                   |          |
| <b>SPECIAL PROJECTS</b>                              |  |                           |          |                                    |            |              |             |                         |          |                   |          |
| Remove Alder from road surface with Excavator        |  |                           |          | 3.00                               | hours @    | \$125.00     | per hour    | \$375.00                |          |                   |          |
| Grade and shape road -                               |  |                           |          | 17.78                              | stations @ | \$15.50      | per station | \$275.59                |          |                   |          |
| Roll subgrade w/ vibratory roller prior to rocking - |  |                           |          | 17.78                              | stations @ | \$13.20      | per station | \$234.70                |          |                   |          |
|                                                      |  |                           |          | TOTAL SPECIAL PROJECTS             |            |              |             | <b>\$885.29</b>         |          |                   |          |
| <b>GRAND TOTAL</b>                                   |  |                           |          |                                    |            |              |             |                         |          | <b>\$2,879.79</b> |          |

## PIT-RUN AND RIPRAP DEVELOPMENT COST SUMMARY

|             |                           |                    |                         |
|-------------|---------------------------|--------------------|-------------------------|
| Pit:        | Pit_run                   | Location:          | Sec. 30, T1N, R8W, W.M. |
| Sale:       | <b>Back In The Saddle</b> | Road:              | 204 c.y.                |
| Swell:      | 1.40                      | Stockpile:         | c.y.                    |
| Shrinkage   | 1.16                      | Total Truck Loads: | 204 c.y.                |
| Drill Pct.: | 0%                        | In Place Total:    | 146 c.y.                |

|                  |                |   |             |   |          |
|------------------|----------------|---|-------------|---|----------|
| Rip Rock:        | \$1.90 /cu.yd. | x | 131 cu.yds. | = | \$248.90 |
| Load Dump Truck: | \$0.70 /cu.yd. | x | 184 cu.yds. | = | \$128.80 |

Subtotal \$377.70

|                   |   |   |          |   |            |
|-------------------|---|---|----------|---|------------|
| Move in D-6       | 1 | @ | \$679.11 | = | \$679.11   |
| Move in Excavator | 1 | @ | \$861.51 | = | \$861.51   |
|                   |   |   | Subtotal |   | \$1,540.62 |

|            |               |            |                               |                   |
|------------|---------------|------------|-------------------------------|-------------------|
| Base Cost= | <u>\$9.40</u> | Per Cu.Yd. | <b>TOTAL PRODUCTION COSTS</b> | <b>\$1,918.32</b> |
|------------|---------------|------------|-------------------------------|-------------------|

| Road Segment                              | Haul Cost<br>\$/cu.yd. | Proc Cost<br>\$/cu.yd. | Base Cost.<br>\$/cu.yd. | Cost<br>\$/cu.yd. | Number<br>Cu. Yds | ROCK<br>COST         |
|-------------------------------------------|------------------------|------------------------|-------------------------|-------------------|-------------------|----------------------|
| B to C Fill Armor (Riprap)                | 5.09                   | 1.40                   | 9.40                    | 15.89             | 30                | \$476.70             |
| B to C Energy Dissipater (Riprap)         | 4.76                   | 1.40                   | 9.40                    | 15.56             | 20                | \$311.20             |
| B to C Fill Ditch/Road Wideing (Pit-Run)  | 4.57                   | 1.40                   | 9.40                    | 15.37             | 10                | \$153.70             |
| B to C Fill Armor (Riprap)                | 4.57                   | 1.40                   | 9.89                    | 15.86             | 10                | \$158.60             |
| B to C Energy Dissipater (Riprap)         | 2.58                   | 1.40                   | 9.40                    | 13.38             | 30                | \$401.40             |
| B to C Fill Ditch/Road Widening (Pit-Run) | 2.27                   | 1.10                   | 9.40                    | 12.77             | 10                | \$127.70             |
| D to F Fill Tank Trap (Pit-Run)           | 1.35                   | 1.10                   | 9.40                    | 11.85             | 14                | \$165.90             |
| D to F Widening fill (Pit-Run)            | 1.56                   | 1.10                   | 9.40                    | 12.06             | 80                | \$964.80             |
|                                           |                        |                        |                         | Total C.Y.        | 204               | Sub Total \$2,760.00 |

**TOTAL ROCKING COSTS** **\$2,760.00**

### Crushed Rock and Drain Rock COST SUMMARY

|             |                           |                      |                                 |
|-------------|---------------------------|----------------------|---------------------------------|
| Pit:        | Crushed                   | Crushed Rock:        | Commercial Source               |
| Sale:       | <b>Back In The Saddle</b> | Drain Rock Location: | NW 1/4, Sec. 19, T1N, R7W, W.M. |
| Swell:      | 1.40                      | Stockpile:           | 4980 c.y.                       |
| Shrinkage   | 1.16                      | Stockpile:           | c.y.                            |
| Drill Pct.: | 0%                        | Total Truck Loads:   | 4980 c.y.                       |
|             |                           | In Place Total:      | 3557 c.y.                       |

| Road Segment                                | Purchase and Haul cost<br>\$/cu.yd. | Proc Cost<br>\$/cu.yd. | Base Cost.<br>\$/cu.yd. | Cost<br>\$/cu.yd. | Number<br>Cu. Yds | ROCK<br>COST           |
|---------------------------------------------|-------------------------------------|------------------------|-------------------------|-------------------|-------------------|------------------------|
| A to B 0 13763 (Crushed)                    | 19.49                               | 2.45                   | 0.00                    | 21.94             | 2690              | \$59,018.60            |
| B to C 0 11000 (Crushed)                    | 23.29                               | 2.45                   | 0.70                    | 26.44             | 1660              | \$43,890.40            |
| B to C 72" Culvert Bedding Rock (Crushed)   | 23.29                               | 2.45                   | 0.70                    | 26.44             | 40                | \$1,057.60             |
| B to C Base Rock (Crushed)                  | 23.29                               | 2.45                   | 0.70                    | 26.44             | 20                | \$528.80               |
| B to C French Drain Ditch Rock (Drain Rock) | 23.29                               | 2.45                   | 0.70                    | 26.44             | 30                | \$793.20               |
| B to C French Drain Ditch Rock (Drain Rock) | 23.29                               | 2.45                   | 0.70                    | 26.44             | 10                | \$264.40               |
| B to C Base Rock (Crushed)                  | 23.29                               | 2.45                   | 0.70                    | 26.44             | 10                | \$264.40               |
| B to C Surface Rock (Crushed)               | 23.29                               | 2.45                   | 0.70                    | 26.44             | 10                | \$264.40               |
| B to C French Drain Ditch Rock (Drain Rock) | 23.29                               | 2.45                   | 0.00                    | 26.44             | 50                | \$1,322.00             |
| B to C Base Rock (Crushed)                  | 23.29                               | 2.45                   | 0.70                    | 26.44             | 20                | \$528.80               |
| B to C Surface Rock (Crushed)               | 23.29                               | 2.45                   | 0.70                    | 26.44             | 30                | \$793.20               |
| B to C French Drain Ditch Rock (Drain Rock) | 23.29                               | 2.45                   | 0.70                    | 26.44             | 10                | \$264.40               |
| B to C Base Rock (Crushed)                  | 23.29                               | 2.45                   | 0.70                    | 26.44             | 10                | \$264.40               |
| B to C Surface Rock (Crushed)               | 23.29                               | 2.45                   | 0.70                    | 26.44             | 10                | \$264.40               |
| B to C French Drain Ditch Rock (Drain Rock) | 23.29                               | 2.45                   | 0.70                    | 26.44             | 30                | \$793.20               |
| B to C French Drain Ditch Rock (Drain Rock) | 23.29                               | 2.45                   | 0.70                    | 26.44             | 10                | \$264.40               |
| B to C Base Rock (Crushed)                  | 23.29                               | 2.45                   | 0.70                    | 26.44             | 10                | \$264.40               |
| B to C Surface Rock (Crushed)               | 23.29                               | 2.45                   | 0.70                    | 26.44             | 10                | \$264.40               |
| B to C Culvert Bedding Rock (Crushed)       | 23.29                               | 2.45                   | 0.70                    | 26.44             | 120               | \$3,172.80             |
| C to D Spot Rock (Crushed)                  | 27.06                               | 2.45                   | 0.00                    | 29.51             | 200               | \$5,902.00             |
|                                             |                                     |                        |                         | Total C.Y.        | 4980              | Sub Total \$120,180.20 |

|                     |              |
|---------------------|--------------|
| TOTAL ROCKING COSTS | \$120,180.20 |
|---------------------|--------------|

## Move-In Calculations for Project Work not Involving Rocking/Pit Work

Sale: **Back In The Saddle**

| LOWBOY HAUL (Round Trip) |              |                 |
|--------------------------|--------------|-----------------|
| DIST. (mi)               | ROADWAY      | AVE SPEED (mph) |
| 10.0                     | Pavement     | 30              |
| 15.0                     | Main Lines   | 7               |
| 3.6                      | Steep Grades | 2               |

| No. | EQUIPMENT DESCRIPTION  | Move in Cost | Pilot Cars | Within Area Move (\$/mile) | Begin Mileage | End Mileage | Total Miles | Within Area Cost | Total Cost |
|-----|------------------------|--------------|------------|----------------------------|---------------|-------------|-------------|------------------|------------|
| 1   | Rollers                | \$521.72     |            | \$5.00                     | 0.00          | 0.00        | 0           | \$0.00           | \$521.72   |
| 1   | Excavators (Med.)      | \$708.04     |            | \$35.50                    | 0.00          | 0.00        | 0           | \$0.00           | \$708.04   |
| 1   | Excavators (Large)     | \$869.18     | 1          | \$44.80                    | 0.00          | 0.00        | 0           | \$0.00           | \$869.18   |
| 1   | Tractors (D6 for W/A)  | \$679.11     | 2          | \$7.10                     | 0.00          | 0.00        | 0           | \$0.00           | \$679.11   |
| 4   | Dump Truck (10 cy +)   | \$837.33     |            | \$2.85                     | 0.00          | 0.00        | 0           | \$0.00           | \$837.33   |
| 1   | Water Truck (2500 Gal) | \$200.36     |            | \$2.85                     | 0.00          | 0.00        | 0           | \$0.00           | \$200.36   |
|     |                        |              |            | TOTAL MOVE-IN COSTS:       |               |             |             | \$3,815.74       |            |



## OREGON DEPARTMENT OF FORESTRY CRUISE REPORT *Back in the Saddle*

### 1. Type of Sale

Regeneration harvest, Recovery.

### 2. Legal Description

Sections 29, 30, and 31, T1N, R8W, W.M., Tillamook County, Oregon.

### 3. Sale Acreage

Sale acreage was determined by GPS and ortho photographs along with GIS.

|                   | ACRES        |            |
|-------------------|--------------|------------|
|                   | <u>Gross</u> | <u>Net</u> |
| Area 1 (Clearcut) | 125          | 111        |

#### Gross Acres

Area within the Timber Sale Boundary signs.

#### Net acres

Used for calculating the advertised volume.

Gross acres, less green tree retention, roads, Non-required thinning areas, and riparian areas classified as Special Stewardship in LMCS inside the sale boundary.

### 4. Cruising Procedures

#### A. Cruise Method

The timber sale area was variable plot cruised. Plot and line spacing was 350' and 700' respectively. All conifers 8" DBH and greater containing 20 board feet and all hardwoods 10" DBH and greater containing 30 board feet were recorded. Species, DBH (to the nearest inch), merchantable bole length (to the nearest foot), form factor, and defect were recorded for all trees. Merchantable heights were recorded to 6" and 7" outside bark for conifers and hardwoods respectively.

#### B. Plot size

All plots were measured using a 27.8 BAF and point of tree observation was 4.5 feet.

#### C. Grading System

All trees were graded according to Columbia River Log Scaling and Grading Rules. Log Lengths favored 40' lengths.

## 5. Computation Procedure

Plot data was entered into SuperAce for computation of basal area, stand tables, and volume for each species and type. A reduction in net volume of 1.1 MBF Douglas-fir, 5.4 MBF hemlock, and 0.5 MBF Sitka spruce was made to account for 34 trees reserved with yellow paint for seed trees and guyline anchors for another planned sale. No deduction was made for the snags that will be created.

| Cruise Statistics (Board Foot Volumes) |                 |        |        |
|----------------------------------------|-----------------|--------|--------|
| Area                                   | Number of Plots | SE (%) | CV (%) |
| 1                                      | 22              | 10.8   | 49.8   |

## 6. Hidden Defect and Breakage

A reduction for hidden defect and breakage of 5% was applied to conifers and 10% to hardwoods. This was in addition to the visual defect deducted during the cruise.

## 7. Timber Description

The entire sale was burned in the 1939 Saddle Mountain Fire. The northeastern and east side of the sale were planted in the 1963-64 planting season (73 acres, 73%). In the 1970's about  $\frac{3}{4}$  of the area (82 acres) was sprayed to control alder again primarily in the northeast and east part of the sale. The western  $\frac{1}{2}$  of the sale was commercially thinned in 1998.

| Sale Area | Species         | DBH  | Merchantable Bole Height (feet) | Merchantable top (inches inside bark) |
|-----------|-----------------|------|---------------------------------|---------------------------------------|
| 1         | Douglas-fir     | 13.9 | 55                              | 5                                     |
|           | Western hemlock | 13.7 | 49                              | 5                                     |
|           | Sitka Spruce    | 20.9 | 46                              | 5                                     |
|           | Alder           | 14.8 | 36                              | 6                                     |

## 8. Cruiser Names/Dates

Cruised through Service Contract in June 2011.

## 9. Revenue Distribution

- FDF 100%
- Tax Code: 56
- Deed Numbers: 161

## **10. Attachments**

Volume Summary

Stand Table

Log Stock Tables

Logging Plan

## **11. Stand and Log Stock Tables Species Key**

DF – Douglas-fir take

WH – Western hemlock take

SS – Sitka spruce take

RA – Red alder take



| TC                  |     | Stand Table Summary |             |           |      |                |             |              |               |                     |               |                |                       |                  |        |       |
|---------------------|-----|---------------------|-------------|-----------|------|----------------|-------------|--------------|---------------|---------------------|---------------|----------------|-----------------------|------------------|--------|-------|
| Project             |     |                     |             |           |      |                |             |              |               | BK_N SDL            |               |                |                       |                  |        |       |
| T01N R08W S30 TSALE |     |                     |             |           |      |                |             |              |               | T01N R08W S30 TSALE |               |                |                       |                  |        |       |
| Twp                 | Rge | Sec                 | Tract       |           | Type |                |             | Acres        |               | Plots               | Sample Trees  |                |                       | Page: 1          |        |       |
| 01N                 | 08W | 30                  | BK_N SDL    |           | SALE |                |             | 111.00       |               | 22                  | 165           |                |                       | Date: 04/30/2015 |        |       |
|                     |     |                     |             |           |      |                |             |              |               |                     |               |                | Time: 11:43:40AM      |                  |        |       |
| S<br>Spc            | T   | Av                  |             |           |      |                |             | Average Log  |               | Net                 |               |                | T o t a l s           |                  |        |       |
|                     |     | Sample<br>DBH       | FF<br>Trees | Ht<br>16' | Tot  | Trees/<br>Acre | BA/<br>Acre | Logs<br>Acre | Net<br>Cu.Ft. | Net<br>Bd.Ft.       | Tons/<br>Acre | Cu.Ft.<br>Acre | Net<br>Bd.Ft.<br>Acre | Tons             | Cunits | MBF   |
| DF                  |     | 8                   | 3           | 84        | 51   | 10.852         | 3.79        | 10.85        | 5.0           | 23.3                | 1.54          | 54             | 253                   | 171              | 60     | 28    |
| DF                  |     | 9                   | 3           | 86        | 67   | 8.575          | 3.79        | 8.57         | 8.4           | 36.7                | 2.06          | 72             | 314                   | 228              | 80     | 35    |
| DF                  |     | 10                  | 5           | 85        | 71   | 11.826         | 6.31        | 11.83        | 11.4          | 45.9                | 3.85          | 135            | 542                   | 427              | 150    | 60    |
| DF                  |     | 11                  | 5           | 85        | 72   | 9.567          | 6.31        | 11.48        | 12.7          | 48.3                | 4.15          | 146            | 555                   | 461              | 162    | 62    |
| DF                  |     | 12                  | 12          | 84        | 76   | 19.436         | 15.15       | 25.87        | 14.7          | 51.3                | 10.95         | 380            | 1,327                 | 1,216            | 422    | 147   |
| DF                  |     | 13                  | 11          | 85        | 87   | 15.181         | 13.89       | 28.99        | 14.0          | 52.4                | 11.60         | 407            | 1,520                 | 1,288            | 452    | 169   |
| DF                  |     | 14                  | 12          | 84        | 80   | 14.174         | 15.15       | 24.81        | 17.5          | 60.0                | 12.37         | 434            | 1,488                 | 1,373            | 481    | 165   |
| DF                  |     | 15                  | 4           | 84        | 85   | 4.116          | 5.05        | 8.23         | 18.5          | 63.8                | 4.35          | 152            | 525                   | 482              | 169    | 58    |
| DF                  |     | 16                  | 13          | 84        | 87   | 11.816         | 16.42       | 23.63        | 22.1          | 79.3                | 14.88         | 522            | 1,874                 | 1,652            | 580    | 208   |
| DF                  |     | 17                  | 4           | 85        | 83   | 3.204          | 5.05        | 6.41         | 24.2          | 81.2                | 4.41          | 155            | 521                   | 489              | 172    | 58    |
| DF                  |     | 18                  | 5           | 85        | 84   | 3.573          | 6.31        | 7.15         | 25.1          | 89.0                | 5.10          | 179            | 636                   | 566              | 199    | 71    |
| DF                  |     | 19                  | 5           | 84        | 85   | 3.207          | 6.31        | 6.41         | 27.0          | 94.0                | 4.93          | 173            | 603                   | 548              | 192    | 67    |
| DF                  |     | 20                  | 5           | 83        | 94   | 2.894          | 6.31        | 5.79         | 36.1          | 121.0               | 5.96          | 209            | 700                   | 662              | 232    | 78    |
| DF                  |     | 21                  | 2           | 83        | 75   | 1.050          | 2.53        | 2.10         | 34.8          | 105.0               | 2.08          | 73             | 220                   | 231              | 81     | 24    |
| DF                  |     | 22                  | 2           | 84        | 90   | .957           | 2.53        | 1.91         | 35.6          | 120.0               | 1.94          | 68             | 230                   | 215              | 76     | 25    |
| DF                  |     | 23                  | 4           | 84        | 99   | 1.751          | 5.05        | 3.50         | 52.4          | 193.7               | 5.23          | 183            | 678                   | 580              | 204    | 75    |
| DF                  |     | 24                  | 4           | 73        | 97   | 1.608          | 5.05        | 2.81         | 52.1          | 204.3               | 4.17          | 146            | 575                   | 463              | 163    | 64    |
| DF                  |     | 25                  | 3           | 86        | 102  | 1.111          | 3.79        | 2.22         | 62.1          | 221.7               | 3.93          | 138            | 493                   | 436              | 153    | 55    |
| DF                  |     | 26                  | 1           | 81        | 108  | .342           | 1.26        | .68          | 65.8          | 235.0               | 1.28          | 45             | 161                   | 143              | 50     | 18    |
| DF                  |     | 29                  | 1           | 86        | 101  | .275           | 1.26        | .55          | 85.6          | 345.0               | 1.34          | 47             | 190                   | 149              | 52     | 21    |
| DF                  |     | Totals              | 104         | 84        | 78   | 125.515        | 131.32      | 193.80       | 19.2          | 69.2                | 106.13        | 3,720          | 13,406                | 11,781           | 4,129  | 1,488 |
| WH                  |     | 8                   | 1           | 86        | 64   | 3.617          | 1.26        | 3.62         | 7.5           | 30.0                | .87           | 27             | 109                   | 97               | 30     | 12    |
| WH                  |     | 9                   | 1           | 83        | 52   | 2.858          | 1.26        | 2.86         | 8.1           | 30.0                | .74           | 23             | 86                    | 82               | 26     | 10    |
| WH                  |     | 10                  | 4           | 79        | 62   | 9.261          | 5.05        | 9.26         | 12.3          | 45.0                | 3.64          | 114            | 417                   | 404              | 126    | 46    |
| WH                  |     | 11                  | 2           | 83        | 59   | 3.827          | 2.53        | 3.83         | 14.9          | 40.0                | 1.83          | 57             | 153                   | 203              | 63     | 17    |
| WH                  |     | 12                  | 3           | 85        | 79   | 4.823          | 3.79        | 8.04         | 13.5          | 48.0                | 3.48          | 109            | 386                   | 386              | 121    | 43    |
| WH                  |     | 13                  | 3           | 84        | 78   | 4.110          | 3.79        | 8.22         | 13.6          | 46.7                | 3.58          | 112            | 384                   | 397              | 124    | 43    |
| WH                  |     | 14                  | 1           | 82        | 51   | 1.181          | 1.26        | 1.18         | 23.5          | 40.0                | .89           | 28             | 47                    | 99               | 31     | 5     |
| WH                  |     | 15                  | 1           | 86        | 89   | 1.029          | 1.26        | 2.06         | 20.6          | 75.0                | 1.36          | 42             | 154                   | 151              | 47     | 17    |
| WH                  |     | 16                  | 2           | 83        | 83   | 1.809          | 2.53        | 3.62         | 22.6          | 80.0                | 2.62          | 82             | 289                   | 291              | 91     | 32    |
| WH                  |     | 17                  | 2           | 85        | 83   | 1.602          | 2.53        | 2.40         | 31.1          | 110.0               | 2.39          | 75             | 264                   | 266              | 83     | 29    |
| WH                  |     | 18                  | 3           | 82        | 77   | 2.144          | 3.79        | 3.57         | 33.4          | 96.0                | 3.82          | 119            | 343                   | 424              | 132    | 38    |
| WH                  |     | 19                  | 6           | 84        | 83   | 3.848          | 7.58        | 7.70         | 32.5          | 108.3               | 8.00          | 250            | 834                   | 888              | 278    | 93    |
| WH                  |     | 20                  | 2           | 82        | 78   | 1.158          | 2.53        | 2.32         | 34.2          | 107.5               | 2.53          | 79             | 249                   | 281              | 88     | 28    |
| WH                  |     | 21                  | 1           | 83        | 72   | .525           | 1.26        | 1.05         | 36.5          | 110.0               | 1.23          | 38             | 115                   | 136              | 43     | 13    |
| WH                  |     | 22                  | 1           | 85        | 54   | .478           | 1.26        | .48          | 53.0          | 170.0               | .81           | 25             | 81                    | 90               | 28     | 9     |
| WH                  |     | 24                  | 1           | 83        | 83   | .402           | 1.26        | .80          | 51.0          | 160.0               | 1.31          | 41             | 129                   | 146              | 45     | 14    |
| WH                  |     | 30                  | 1           | 86        | 102  | .257           | 1.26        | .51          | 98.2          | 425.0               | 1.62          | 51             | 219                   | 179              | 56     | 24    |
| WH                  |     | Totals              | 35          | 83        | 70   | 42.929         | 44.20       | 61.51        | 20.7          | 69.2                | 40.73         | 1,272          | 4,259                 | 4,521            | 1,412  | 473   |
| RA                  |     | 10                  | 2           | 81        | 51   | 4.630          | 2.53        | 4.63         | 8.0           | 20.0                | 1.02          | 37             | 93                    | 114              | 41     | 10    |
| RA                  |     | 13                  | 1           | 86        | 69   | 1.370          | 1.26        | 1.37         | 20.5          | 70.0                | .77           | 28             | 96                    | 86               | 31     | 11    |
| RA                  |     | 14                  | 3           | 74        | 49   | 3.544          | 3.79        | 3.54         | 17.8          | 46.7                | 1.72          | 63             | 165                   | 191              | 70     | 18    |
| RA                  |     | 15                  | 1           | 83        | 72   | 1.029          | 1.26        | 1.03         | 31.5          | 90.0                | .89           | 32             | 93                    | 99               | 36     | 10    |
| RA                  |     | 16                  | 3           | 73        | 68   | 2.713          | 3.79        | 2.71         | 26.9          | 90.0                | 2.00          | 73             | 244                   | 222              | 81     | 27    |
| RA                  |     | 17                  | 2           | 71        | 68   | 1.602          | 2.53        | 1.60         | 28.8          | 115.0               | 1.27          | 46             | 184                   | 141              | 51     | 20    |
| RA                  |     | 18                  | 1           | 85        | 71   | .715           | 1.26        | .71          | 32.3          | 150.0               | .63           | 23             | 107                   | 70               | 26     | 12    |
| RA                  |     | 19                  | 1           | 84        | 83   | .641           | 1.26        | 1.28         | 30.6          | 115.0               | 1.08          | 39             | 148                   | 120              | 44     | 16    |
| RA                  |     | 20                  | 2           | 82        | 62   | 1.158          | 2.53        | 1.16         | 53.5          | 155.0               | 1.70          | 62             | 179                   | 189              | 69     | 20    |
| RA                  |     | 22                  | 1           | 76        | 87   | .478           | 1.26        | .96          | 42.1          | 120.0               | 1.11          | 40             | 115                   | 123              | 45     | 13    |
| RA                  |     | Totals              | 17          | 78        | 61   | 17.880         | 21.47       | 19.00        | 23.4          | 74.9                | 12.21         | 444            | 1,424                 | 1,355            | 493    | 158   |
|                     |     |                     |             |           |      |                |             |              |               |                     |               |                |                       |                  |        |       |

| TC                  |  | TSTNDSUM |  |               |  |             |  |           |  |           |        |                |       |             | Stand Table Summary |              |  |               |  |               |  |               |  |                |  |                |  |                     |  |        |  |     |  |  |  |  |  |  |  |  |
|---------------------|--|----------|--|---------------|--|-------------|--|-----------|--|-----------|--------|----------------|-------|-------------|---------------------|--------------|--|---------------|--|---------------|--|---------------|--|----------------|--|----------------|--|---------------------|--|--------|--|-----|--|--|--|--|--|--|--|--|
|                     |  |          |  |               |  |             |  |           |  |           |        |                |       |             | Project             |              |  |               |  |               |  |               |  |                |  |                |  | BK_N_SDL            |  |        |  |     |  |  |  |  |  |  |  |  |
| T01N R08W S30 TSALE |  |          |  |               |  |             |  |           |  |           |        |                |       |             |                     |              |  |               |  |               |  |               |  |                |  |                |  | T01N R08W S30 TSALE |  |        |  |     |  |  |  |  |  |  |  |  |
| Twp                 |  | Rge      |  | Sec           |  | Tract       |  | Type      |  |           | Acres  |                | Plots |             | Sample Trees        |              |  | Page:         |  | 2             |  |               |  |                |  |                |  |                     |  |        |  |     |  |  |  |  |  |  |  |  |
| 01N                 |  | 08W      |  | 30            |  | BK_N_SDL    |  | SALE      |  |           | 111.00 |                | 22    |             | 165                 |              |  | Date:         |  | 04/30/2015    |  |               |  |                |  |                |  |                     |  |        |  |     |  |  |  |  |  |  |  |  |
|                     |  |          |  |               |  |             |  |           |  |           |        |                |       |             | Time: 11:43:40AM    |              |  |               |  |               |  |               |  |                |  |                |  |                     |  |        |  |     |  |  |  |  |  |  |  |  |
| S<br>Spc            |  | T        |  | Sample<br>DBH |  | FF<br>Trees |  | Ht<br>16' |  | Av<br>Tot |        | Trees/<br>Acre |       | BA/<br>Acre |                     | Logs<br>Acre |  | Average Log   |  | Net           |  | Net           |  | Totals         |  |                |  |                     |  |        |  |     |  |  |  |  |  |  |  |  |
|                     |  |          |  |               |  |             |  |           |  |           |        |                |       |             |                     |              |  | Net<br>Cu.Ft. |  | Net<br>Bd.Ft. |  | Tons/<br>Acre |  | Cu.Ft.<br>Acre |  | Bd.Ft.<br>Acre |  | Tons                |  | Cunits |  | MBF |  |  |  |  |  |  |  |  |
| SS                  |  |          |  | 12            |  | 1           |  | 86 49     |  | 1.608     |        | 1.26           |       | 1.61        |                     | 16.1         |  | 40.0          |  | .67           |  | 26            |  | 64             |  | 75             |  | 29                  |  | 7      |  |     |  |  |  |  |  |  |  |  |
| SS                  |  |          |  | 18            |  | 1           |  | 83 58     |  | .715      |        | 1.26           |       | 1.43        |                     | 18.9         |  | 60.0          |  | .69           |  | 27            |  | 86             |  | 77             |  | 30                  |  | 10     |  |     |  |  |  |  |  |  |  |  |
| SS                  |  |          |  | 21            |  | 1           |  | 83 51     |  | .525      |        | 1.26           |       | .52         |                     | 46.6         |  | 170.0         |  | .64           |  | 24            |  | 89             |  | 71             |  | 27                  |  | 10     |  |     |  |  |  |  |  |  |  |  |
| SS                  |  |          |  | 22            |  | 1           |  | 77 47     |  | .478      |        | 1.26           |       | .48         |                     | 57.0         |  | 60.0          |  | .70           |  | 27            |  | 29             |  | 78             |  | 30                  |  | 3      |  |     |  |  |  |  |  |  |  |  |
| SS                  |  |          |  | 23            |  | 1           |  | 65 54     |  | .438      |        | 1.26           |       | .44         |                     | 15.7         |  | 30.0          |  | .18           |  | 7             |  | 13             |  | 20             |  | 8                   |  | 1      |  |     |  |  |  |  |  |  |  |  |
| SS                  |  |          |  | 27            |  | 2           |  | 86 84     |  | .635      |        | 2.53           |       | 1.27        |                     | 50.8         |  | 260.0         |  | 1.68          |  | 64            |  | 330            |  | 186            |  | 72                  |  | 37     |  |     |  |  |  |  |  |  |  |  |
| SS                  |  |          |  | 31            |  | 1           |  | 80 75     |  | .241      |        | 1.26           |       | .24         |                     | 121.8        |  | 520.0         |  | .76           |  | 29            |  | 125            |  | 85             |  | 33                  |  | 14     |  |     |  |  |  |  |  |  |  |  |
| SS                  |  |          |  | 39            |  | 1           |  | 80 85     |  | .152      |        | 1.26           |       | .30         |                     | 124.0        |  | 500.0         |  | .98           |  | 38            |  | 152            |  | 109            |  | 42                  |  | 17     |  |     |  |  |  |  |  |  |  |  |
| SS                  |  |          |  | Totals        |  | 9           |  | 82 58     |  | 4.792     |        | 11.36          |       | 6.29        |                     | 38.6         |  | 141.2         |  | 6.31          |  | 243           |  | 889            |  | 700            |  | 270                 |  | 99     |  |     |  |  |  |  |  |  |  |  |
| Totals              |  |          |  |               |  | 165         |  | 83 74     |  | 191.115   |        | 208.35         |       | 280.61      |                     | 20.2         |  | 71.2          |  | 165.38        |  | 5680          |  | 19,978         |  | 18,357         |  | 6,305               |  | 2,218  |  |     |  |  |  |  |  |  |  |  |

| T                         | Species, Sort Grade - Board Foot Volumes (Type) |     |                  |                  |        |                |                  |                               |      |            |     |       |       |                     | Page 1 |             |           |                      |      |       |     |
|---------------------------|-------------------------------------------------|-----|------------------|------------------|--------|----------------|------------------|-------------------------------|------|------------|-----|-------|-------|---------------------|--------|-------------|-----------|----------------------|------|-------|-----|
|                           | Project: BK_N_SDL                               |     |                  |                  |        |                |                  |                               |      |            |     |       |       |                     | Date   | 6/13/2013   |           |                      |      |       |     |
|                           |                                                 |     |                  |                  |        |                |                  |                               |      |            |     |       |       |                     | Time   | 8:37:25AM   |           |                      |      |       |     |
| T01N R08W S30 TSALE       |                                                 |     |                  |                  |        |                |                  |                               |      |            |     |       |       | T01N R08W S30 TSALE |        |             |           |                      |      |       |     |
| Twp                       | Rge                                             | Sec | Tract            | Type             | Acres  | Plots          | Sample Trees     | CuFt                          | BdFt |            |     |       |       |                     |        |             |           |                      |      |       |     |
| 01N                       | 08W                                             | 30  | BK_N_SDL         | SALE             | 111.00 | 22             | 165              | S                             | W    |            |     |       |       |                     |        |             |           |                      |      |       |     |
| S So Gr<br>T rt ad<br>Spp |                                                 |     | %<br>Net<br>BdFt | Bd. Ft. per Acre |        |                | Total<br>Net MBF | Percent Net Board Foot Volume |      |            |     |       |       |                     |        | Average Log |           | Logs<br>Per<br>/Acre |      |       |     |
|                           |                                                 |     | Def%             | Gross            | Net    | Log Scale Dia. |                  |                               |      | Log Length |     |       |       | Ln                  | Dia    | Bd          | CF/<br>Lf |                      |      |       |     |
|                           |                                                 |     |                  |                  |        |                |                  | 4-5                           | 6-11 | 12-16      | 17+ | 12-20 | 21-30 | 31-35               | 36-99  | Ft          | In        | Ft                   |      |       |     |
| DF                        | CO                                              | 2   | 18               | 5.0              | 2,539  | 2,412          | 268              |                               |      | 93         | 7   | 3     |       |                     | 97     | 38          | 14        | 268                  | 1.80 | 9.0   |     |
| DF                        | CO                                              | 3   | 62               | 6.6              | 8,337  | 7,787          | 864              |                               |      | 97         | 3   |       |       |                     | 100    | 40          | 8         | 89                   | 0.67 | 87.9  |     |
| DF                        | CO                                              | 4   | 20               | 5.3              | 2,678  | 2,536          | 282              | 96                            | 4    |            |     | 21    | 33    | 18                  | 28     | 26          | 5         | 26                   | 0.30 | 96.9  |     |
| DF                        | Totals                                          |     | 67               | 6.0              | 13,554 | 12,736         | 1,414            | 19                            | 60   | 19         | 1   | 5     | 6     | 4                   | 85     | 33          | 7         | 66                   | 0.58 | 193.8 |     |
| WH                        | CO                                              | 2   | 23               | 7.2              | 1,008  | 935            | 104              |                               |      | 82         | 18  |       |       | 8                   | 92     | 39          | 13        | 221                  | 1.63 | 4.2   |     |
| WH                        | CO                                              | 3   | 50               | 5.3              | 2,160  | 2,045          | 227              |                               |      | 100        |     |       |       | 10                  | 90     | 39          | 8         | 100                  | 0.81 | 20.5  |     |
| WH                        | CO                                              | 4   | 27               | 5.0              | 1,122  | 1,066          | 118              | 84                            | 16   |            |     | 17    | 31    | 29                  | 23     | 27          | 5         | 29                   | 0.35 | 36.8  |     |
| WH                        | Totals                                          |     | 21               | 5.7              | 4,290  | 4,046          | 449              | 22                            | 55   | 19         | 4   | 4     | 8     | 14                  | 73     | 32          | 7         | 66                   | 0.65 | 61.5  |     |
| RA                        | H                                               | 2   | 36               | 10.0             | 516    | 464            | 52               |                               |      | 100        |     |       | 43    | 26                  | 31     | 32          | 13        | 170                  | 1.37 | 2.7   |     |
| RA                        | H                                               | 3   | 9                | 10.0             | 136    | 122            | 14               |                               |      | 100        |     |       |       | 100                 |        | 34          | 11        | 135                  | 1.03 | .9    |     |
| RA                        | H                                               | 4   | 55               | 16.6             | 834    | 695            | 77               |                               |      | 89         | 11  | 9     | 49    |                     | 42     | 28          | 7         | 45                   | 0.69 | 15.4  |     |
| RA                        | Totals                                          |     | 7                | 13.7             | 1,485  | 1,281          | 142              |                               |      | 58         | 42  | 5     | 42    | 19                  | 34     | 29          | 8         | 67                   | 0.81 | 19.0  |     |
| SS                        | CO                                              | 2   | 73               | 7.0              | 670    | 623            | 69               |                               |      | 25         | 75  | 16    | 84    |                     |        | 25          | 17        | 275                  | 2.53 | 2.3   |     |
| SS                        | CO                                              | 3   | 16               | 11.0             | 151    | 135            | 15               |                               |      | 29         | 71  |       |       | 58                  | 20     | 21          | 29        | 10                   | 106  | 1.65  | 1.3 |
| SS                        | CO                                              | 4   | 11               | 5.0              | 92     | 87             | 10               | 100                           |      |            |     | 16    | 14    | 70                  |        | 29          | 5         | 32                   | 0.47 | 2.8   |     |
| SS                        | Totals                                          |     | 4                | 7.5              | 913    | 844            | 94               | 10                            | 5    | 29         | 56  | 13    | 73    | 10                  | 3      | 28          | 10        | 134                  | 1.40 | 6.3   |     |
| Type Totals               |                                                 |     |                  | 6.6              | 20,242 | 18,907         | 2,099            | 18                            | 56   | 21         | 4   | 5     | 12    | 7                   | 75     | 32          | 7         | 67                   | 0.62 | 280.6 |     |



| TC TLOGSTVB         |     |     |          | Log Stock Table - MBF |        |       |              |       |           |                                          |            |     |     |       |       |       |       |       |       |       |
|---------------------|-----|-----|----------|-----------------------|--------|-------|--------------|-------|-----------|------------------------------------------|------------|-----|-----|-------|-------|-------|-------|-------|-------|-------|
|                     |     |     |          | Project: BK_N_SDL     |        |       |              |       |           |                                          |            |     |     |       |       |       |       |       |       |       |
| T01N R08W S30 TSALE |     |     |          |                       |        |       |              |       |           | T01N R08W S30 TSAL                       |            |     |     |       |       |       |       |       |       |       |
| Twp                 | Rge | Sec | Tract    | Type                  | Acres  | Plots | Sample Trees | Page  | 2         |                                          |            |     |     |       |       |       |       |       |       |       |
| 01N                 | 08W | 30  | BK_N_SDL | SALE                  | 111.00 | 22    | 165          | Date  | 4/30/2013 |                                          |            |     |     |       |       |       |       |       |       |       |
|                     |     |     |          |                       |        |       |              |       |           | Time                                     | 11:41:41AM |     |     |       |       |       |       |       |       |       |
| S<br>Spp            | So  | Gr  | Log      | T                     | Len    | Gross | %            | Net   | %         | Net Volume by Scaling Diameter in Inches |            |     |     |       |       |       |       |       |       |       |
|                     |     |     |          |                       |        | 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 |
| WH                  | CO  | 4   | 31       |                       |        | 12    | 5.0          | 11    | 2.5       |                                          | 11         |     |     |       |       |       |       |       |       |       |
| WH                  | CO  | 4   | 32       |                       |        | 2     | 5.0          | 2     | .5        |                                          | 2          |     |     |       |       |       |       |       |       |       |
| WH                  | CO  | 4   | 33       |                       |        | 3     | 5.0          | 3     | .6        |                                          | 3          |     |     |       |       |       |       |       |       |       |
| WH                  | CO  | 4   | 35       |                       |        | 19    | 5.0          | 18    | 4.0       |                                          | 18         |     |     |       |       |       |       |       |       |       |
| WH                  | CO  | 4   | 39       |                       |        | 5     | 5.0          | 5     | 1.1       |                                          | 5          |     |     |       |       |       |       |       |       |       |
| WH                  | CO  | 4   | 40       |                       |        | 24    | 5.0          | 23    | 5.1       |                                          | 8          | 15  |     |       |       |       |       |       |       |       |
| WH Totals           |     |     |          |                       |        | 476   | 5.7          | 449   | 21.4      |                                          | 99         | 63  | 69  | 114   | 72    | 12    |       | 19    |       |       |
| RA                  | H   | 2   | 24       |                       |        | 12    | 10.0         | 11    | 7.5       |                                          |            |     |     | 11    |       |       |       |       |       |       |
| RA                  | H   | 2   | 30       |                       |        | 13    | 10.0         | 12    | 8.1       |                                          |            |     |     | 12    |       |       |       |       |       |       |
| RA                  | H   | 2   | 32       |                       |        | 15    | 10.0         | 13    | 9.3       |                                          |            |     |     |       | 13    |       |       |       |       |       |
| RA                  | H   | 2   | 40       |                       |        | 18    | 10.0         | 16    | 11.3      |                                          |            |     |     | 16    |       |       |       |       |       |       |
| RA                  | H   | 3   | 34       |                       |        | 15    | 10.0         | 14    | 9.5       |                                          |            |     |     | 14    |       |       |       |       |       |       |
| RA                  | H   | 4   | 19       |                       |        | 8     | 10.0         | 7     | 4.9       |                                          |            | 7   |     |       |       |       |       |       |       |       |
| RA                  | H   | 4   | 21       |                       |        | 7     | 10.0         | 6     | 4.2       |                                          |            | 6   |     |       |       |       |       |       |       |       |
| RA                  | H   | 4   | 25       |                       |        | 3     | 10.0         | 3     | 1.9       |                                          |            | 3   |     |       |       |       |       |       |       |       |
| RA                  | H   | 4   | 27       |                       |        | 8     | 40.0         | 5     | 3.3       |                                          |            | 5   |     |       |       |       |       |       |       |       |
| RA                  | H   | 4   | 30       |                       |        | 29    | 15.0         | 24    | 17.1      |                                          |            | 3   | 12  |       |       | 9     |       |       |       |       |
| RA                  | H   | 4   | 38       |                       |        | 11    | 26.4         | 8     | 5.7       |                                          |            |     | 8   |       |       |       |       |       |       |       |
| RA                  | H   | 4   | 40       |                       |        | 28    | 12.1         | 24    | 17.2      |                                          |            |     | 24  |       |       |       |       |       |       |       |
| RA Totals           |     |     |          |                       |        | 165   | 13.7         | 142   | 6.8       |                                          |            | 23  | 45  | 14    | 38    | 22    |       |       |       |       |
| SS                  | CO  | 2   | 16       |                       |        | 12    | 5.0          | 11    | 11.8      |                                          |            |     |     |       |       |       |       | 11    |       |       |
| SS                  | CO  | 2   | 22       |                       |        | 14    | 5.0          | 13    | 13.7      |                                          |            |     |     |       |       |       |       |       | 13    |       |
| SS                  | CO  | 2   | 24       |                       |        | 10    | 20.8         | 8     | 8.0       |                                          |            |     |     | 8     |       |       |       |       |       |       |
| SS                  | CO  | 2   | 28       |                       |        | 10    | 5.0          | 9     | 10.0      |                                          |            |     |     | 9     |       |       |       |       |       |       |
| SS                  | CO  | 2   | 30       |                       |        | 30    | 5.0          | 28    | 30.2      |                                          |            |     |     |       |       | 15    | 13    |       |       |       |
| SS                  | CO  | 3   | 22       |                       |        | 8     | 5.0          | 7     | 7.9       |                                          |            |     |     |       |       | 7     |       |       |       |       |
| SS                  | CO  | 3   | 23       |                       |        | 1     | 5.0          | 1     | 1.4       |                                          |            | 1   |     |       |       |       |       |       |       |       |
| SS                  | CO  | 3   | 35       |                       |        | 4     | 28.8         | 3     | 3.2       |                                          |            |     | 3   |       |       |       |       |       |       |       |
| SS                  | CO  | 3   | 40       |                       |        | 3     | 5.0          | 3     | 3.4       |                                          |            |     |     | 3     |       |       |       |       |       |       |
| SS                  | CO  | 4   | 17       |                       |        | 2     | 5.0          | 2     | 1.6       |                                          | 2          |     |     |       |       |       |       |       |       |       |
| SS                  | CO  | 4   | 26       |                       |        | 1     | 5.0          | 1     | 1.5       |                                          | 1          |     |     |       |       |       |       |       |       |       |
| SS                  | CO  | 4   | 35       |                       |        | 7     | 5.0          | 7     | 7.2       |                                          | 7          |     |     |       |       |       |       |       |       |       |
| SS Totals           |     |     |          |                       |        | 101   | 7.5          | 94    | 4.5       |                                          | 10         | 1   | 3   |       | 20    |       | 22    | 24    | 13    |       |
| Total All Species   |     |     |          |                       |        | 2,247 | 6.6          | 2,099 | 100.0     |                                          | 379        | 372 | 460 | 352   | 240   | 109   | 130   | 43    | 13    |       |



"STEWARDSHIP IN FORESTRY"

## Back in the Saddle

### Volume Summary

| Area 1-Modified Clearcut |             |             |        |             |
|--------------------------|-------------|-------------|--------|-------------|
| 111 acres                |             |             |        |             |
| SPECIES                  | Cruised Net | Cruised Net | Hidden | Net Sale*   |
|                          | MBF/ Acre   | MBF         | D&B    | MBF         |
| Douglas-fir              | 13.4        | 1488        | 5%     | 1413        |
| Western Hemlock          | 4.3         | 473         | 5%     | 444         |
| Sitka Spruce             | 0.9         | 99          | 5%     | 93          |
| Red Alder                | 1.4         | 158         | 10%    | 142         |
| <b>TOTAL</b>             | <b>20.0</b> | <b>2218</b> |        | <b>2092</b> |

| TOTAL SALE VOLUME |                   |  | 111            | acres |
|-------------------|-------------------|--|----------------|-------|
| SPECIES           | Cruised Net (MBF) |  | Net Sale (MBF) |       |
| Douglas-fir       | 1488              |  | 1413           |       |
| Western Hemlock   | 473               |  | 444            |       |
| Sitka Spruce      | 99                |  | 93             |       |
| Red Alder         | 158               |  | 142            |       |
| <b>TOTAL</b>      | <b>2218</b>       |  | <b>2092</b>    |       |

\* Includes deductions made for marked tree volume

