



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal  
Foster's 40  
Sale 341-12-26

District: Astoria

Date: July 07, 2011

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**cost summary**

|                                | <b>Conifer</b> | <b>Hardwood</b>          | <b>Total</b>   |
|--------------------------------|----------------|--------------------------|----------------|
| <b>Gross Timber Sale Value</b> | \$1,495,327.20 | \$233,406.22             | \$1,728,733.42 |
|                                |                | <b>Project Work:</b>     | \$(189,301.00) |
|                                |                | <b>Advertised Value:</b> | \$1,539,432.42 |



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**timber description**

**Location:** Portions of Sections 20, 21, 28, & 29, T7N, R6W, W.M., Clatsop County, Oregon.

**Stand Stocking:** 60%

| SpecieName            | AvgDBH | Amortization (%) | Recovery (%) |
|-----------------------|--------|------------------|--------------|
| Douglas - Fir         | 22     | 0                | 98           |
| Western Hemlock / Fir | 16     | 0                | 97           |
| Alder (Red)           | 14     | 0                | 96           |
| Maple                 | 17     | 0                | 96           |

| Volume by Grade       | 2S    | 3S    | 4S  | Camprur | Total |
|-----------------------|-------|-------|-----|---------|-------|
| Douglas - Fir         | 3,249 | 984   | 81  | 0       | 4,314 |
| Western Hemlock / Fir | 490   | 621   | 51  | 0       | 1,162 |
| Alder (Red)           | 0     | 0     | 0   | 662     | 662   |
| Maple                 | 0     | 0     | 0   | 12      | 12    |
| Total                 | 3,739 | 1,605 | 132 | 674     | 6,150 |



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comments: Pond Values Used: 2nd Quarter Calendar Year 2011.

Expected Log Markets: Clatskanine, Tillamook, Longview, Mist, Warrenton.

Western redcedar and Other Cedars Stumpage Price = Pond Value minus Logging Cost  
 $\$772.21/\text{MBF} = \$950/\text{MBF} - \$177.79/\text{MBF}$

SCALING COST ALLOWANCE = \$5.00/MBF

FUEL COST ALLOWANCE = \$4.00/Gallon

HAULING COST ALLOWANCE

Hauling costs equivalent to \$740 daily truck cost.

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

100% Brand and Paint:  $\$1/\text{MBF} \times 6,150 \text{ MBF} = \$6,150$

Log Loader Slash & Landing Piling (includes Move-In and Pile Materials): = \$4,773 (see attached appraisal)

Machine washing for invasive weed compliance = \$2,000

TOTAL Other Costs (with Profit & Risk to be added) = \$12,923

Other Costs (No Profit & Risk added):

Waterbar and block dirt road segments after harvest:

2 hrs @ \$94/hr = \$188

TOTAL Other Costs (No Profit & Risk added) = \$188



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logging conditions

**combination#: 1**

|                       |        |
|-----------------------|--------|
| Douglas - Fir         | 9.69%  |
| Western Hemlock / Fir | 6.54%  |
| Alder (Red)           | 10.01% |
| Maple                 | 1.33%  |

**yarding distance:** Medium (800 ft)      **downhill yarding:** No  
**logging system:** Cable: Medium Tower >40 - <70      **Process:** Stroke Delimber  
**tree size:** Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF  
**loads / day:** 8.0      **bd. ft / load:** 4,000  
**cost / mbf:** \$104.50

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

**combination#: 2**

|                       |        |
|-----------------------|--------|
| Douglas - Fir         | 50.88% |
| Western Hemlock / Fir | 34.34% |
| Alder (Red)           | 52.53% |
| Maple                 | 7.00%  |

**yarding distance:** Short (400 ft)      **downhill yarding:** No  
**logging system:** Shovel      **Process:** Stroke Delimber  
**tree size:** Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF  
**loads / day:** 10.0      **bd. ft / load:** 4,000  
**cost / mbf:** \$35.96

**machines:** Stroke Delimber (B)

**combination#: 3**

|                       |        |
|-----------------------|--------|
| Douglas - Fir         | 31.54% |
| Western Hemlock / Fir | 47.30% |
| Alder (Red)           | 29.97% |
| Maple                 | 73.33% |

**yarding distance:** Medium (800 ft)      **downhill yarding:** No  
**logging system:** Cable: Medium Tower >40 - <70      **Process:** Manual Delimiting  
**tree size:** Mature / Partial Cut (900 Bft/tree), 3-5 logs/MBF  
**loads / day:** 5.0      **bd. ft / load:** 4,000  
**cost / mbf:** \$173.00

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

**combination#: 4**

|                       |        |
|-----------------------|--------|
| Douglas - Fir         | 7.89%  |
| Western Hemlock / Fir | 11.82% |
| Alder (Red)           | 7.49%  |
| Maple                 | 18.33% |



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|                   |   |                   |                   |
|-------------------|---|-------------------|-------------------|
| yarding distance: | Short (400 ft)                                    | downhill yarding: | No                |
| logging system:   | Shovel  | Process:          | Manual Delimiting |
| tree size:        | Mature / Partial Cut (900 Bft/tree), 3-5 logs/MBF |                   |                   |
| loads / day:      | 7.0   | bd. ft / load:    | 4,000             |
| cost / mbf:       | \$89.45   |                   |                   |
| machines:         | Shovel Logger                                     |                   |                   |



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**logging costs**

|                    |              |                    |             |
|--------------------|--------------|--------------------|-------------|
| Operating Seasons: | 2.00         | Profit Risk:       | 14.00%      |
| Project Costs:     | \$189,301.00 | Other Costs (P/R): | \$12,923.00 |
| Slash Disposal:    | \$0.00       | Other Costs:       | \$188.00    |

**Miles of Road**

Road Maintenance: \$5.22

| 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   | 2.0       | 4.0        |
| Western Hemlock / Fir | \$0.00   | 2.0       | 4.0        |
| Alder (Red)           | \$0.00   | 2.0       | 3.5        |
| Maple                 | \$0.00   | 2.0       | 3.0        |

**Local Pond Values**

| Date   | Specie                | Grade   | Value    |
|--------|-----------------------|---------|----------|
| 7/7/11 | Douglas - Fir         | 2S      | \$520.00 |
| 7/7/11 | Douglas - Fir         | 3S      | \$480.00 |
| 7/7/11 | Douglas - Fir         | 4S      | \$455.00 |
| 7/7/11 | Western Hemlock / Fir | 2S      | \$435.00 |
| 7/7/11 | Western Hemlock / Fir | 3S      | \$410.00 |
| 7/7/11 | Western Hemlock / Fir | 4S      | \$395.00 |
| 7/7/11 | Alder (Red)           | Camprun | \$575.00 |
| 7/7/11 | Maple                 | Camprun | \$475.00 |



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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>         |            |              |          |                |               |                |         |        |          |
| \$90.05                      | \$5.32     | \$1.43       | \$82.76  | \$2.10         | \$25.43       | \$0.00         | \$5.00  | \$0.03 | \$212.12 |
| <b>Western Hemlock / Fir</b> |            |              |          |                |               |                |         |        |          |
| \$111.58                     | \$5.38     | \$1.43       | \$83.57  | \$2.10         | \$28.57       | \$0.00         | \$5.00  | \$0.03 | \$237.66 |
| <b>Alder (Red)</b>           |            |              |          |                |               |                |         |        |          |
| \$87.90                      | \$5.43     | \$1.43       | \$96.44  | \$2.10         | \$27.06       | \$0.00         | \$5.00  | \$0.03 | \$225.39 |
| <b>Maple</b>                 |            |              |          |                |               |                |         |        |          |
| \$147.18                     | \$5.43     | \$1.43       | \$112.52 | \$2.10         | \$37.61       | \$0.00         | \$5.00  | \$0.03 | \$311.30 |

| Specie                | Amortization | Pond Value | Stumpage | Amortized |
|-----------------------|--------------|------------|----------|-----------|
| Douglas - Fir         | \$0.00       | \$509.66   | \$297.54 | \$0.00    |
| Western Hemlock / Fir | \$0.00       | \$419.88   | \$182.22 | \$0.00    |
| Alder (Red)           | \$0.00       | \$575.00   | \$349.61 | \$0.00    |
| Maple                 | \$0.00       | \$475.00   | \$163.70 | \$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 |
| Alder (Red)           | 0   | \$0.00 | \$0.00 |
| Maple                 | 0   | \$0.00 | \$0.00 |

**Unamortized**

| Specie                | MBF   | Value    | Total          |
|-----------------------|-------|----------|----------------|
| Douglas - Fir         | 4,314 | \$297.54 | \$1,283,587.56 |
| Western Hemlock / Fir | 1,162 | \$182.22 | \$211,739.64   |
| Alder (Red)           | 662   | \$349.61 | \$231,441.82   |
| Maple                 | 12    | \$163.70 | \$1,964.40     |

**Gross Timber Sale Value**

Recovery: \$1,728,733.42

Prepared by: Kevin Berry

Phone: 503-325-5451



### Site Prep Appraisal

**Sale Number:** 341-12-26  
**Sale Name:** Foster's 40  
**Date:** 05/05/2011

| Vegetation Type/Zone | Vegetation Type/Zone Code | Production Rate (hr/ac) | Estimated Piles/Acre |
|----------------------|---------------------------|-------------------------|----------------------|
| Doug-fir             | A                         | 1.0                     | 3.0                  |
| Hemlock/Fir          | B                         | 1.5                     | 4.5                  |
| Hemlock/Spruce       | C                         | 2.0                     | 6.0                  |
| Hemlock              | D                         | 2.0                     | 6.0                  |
| Conifer/Hardwood     | E                         | 1.5                     | 4.5                  |

| Sale Area | Harvest Type | Veg Type/Zone | Ground Based Yarding Acres | Estimated Piling Hours/Area | Cost/Hour | Total Cost/Area |
|-----------|--------------|---------------|----------------------------|-----------------------------|-----------|-----------------|
| 1         | MC           | A             | 15                         | 15                          | \$110.00  | \$1,650.00      |
| 3         | MC           | A             | 3                          | 3                           | \$110.00  | \$330.00        |

**Sub Total = \$1,980.00**

| Sale Area | Number of Landings to be Piled | Cost/Landing Pile* | Total Cost/Area | Number of In-Unit Piles | Material Cost/Pile | Total Cost/Area |
|-----------|--------------------------------|--------------------|-----------------|-------------------------|--------------------|-----------------|
| 1         | 3                              | \$263.00           | \$789.00        | 45                      | \$5.00             | \$225.00        |
| 3         | 3                              | \$263.00           | \$789.00        | 9                       | \$5.00             | \$45.00         |

\*Cost includes separating firewood

**Sub Total = \$1,848.00**

| Move-In Allowance | Number of Move-In's | Total Move-In Allowance |
|-------------------|---------------------|-------------------------|
| \$945.00          | 1                   | \$945.00                |

**Sub Total = \$945.00**

**Grand Total = \$4,773.00**

**Road Maintenance Cost Summary**

Sale: Foster 40  
 Date: 05-May-11  
 By: K.Berry *FL*

MBF: 6,150  
 \$\$/MBF: \$5.22

| Type                                | Equipment/Rationale            | Move-in Rate | Times | Hours | Rate | Cost    | Production Rates  |                 |      |          |
|-------------------------------------|--------------------------------|--------------|-------|-------|------|---------|-------------------|-----------------|------|----------|
|                                     |                                |              |       |       |      |         | Miles/day         | Distance(miles) | Days |          |
| Progressive Operations<br>1st Entry | Grader 14G                     | \$675        | 1     | 12    | \$93 | \$1,791 | Grader            | 2.5             | 3.0  | 1.2      |
|                                     | Dump Truck 12CY x 2            | \$141        | 2     | 8     | \$73 | \$1,450 |                   |                 |      |          |
|                                     | FE Loader C966                 | \$675        | 1     | 8     | \$77 | \$1,291 |                   |                 |      |          |
| Progressive Operations<br>2nd Entry | Grader 14G                     | \$675        | 1     | 12    | \$93 | \$1,791 | Grader            | 2.5             | 3.0  | 1.2      |
|                                     | Dump Truck 12CY x 2            | \$141        | 2     | 8     | \$73 | \$1,450 |                   |                 |      |          |
|                                     | FE Loader C966                 | \$675        | 1     | 8     | \$77 | \$1,291 |                   |                 |      |          |
| Final Road Maintenance              | Grader 14G                     | \$675        | 1     | 69    | \$93 | \$7,123 | Grader            | 1.5             | 10.4 | 6.9      |
|                                     | Dump Truck 12CY x 2            | \$141        | 2     | 20    | \$73 | \$3,202 |                   |                 |      |          |
|                                     | FE Loader C966                 | \$675        | 1     | 20    | \$77 | \$2,215 | Vibratory Roller* | 1.5             | 10.4 | 6.9      |
|                                     | Vibratory Roller*              | \$675        | 1     | 60    | \$72 | \$4,995 |                   |                 |      |          |
|                                     | Water Truck 2,500 gallon Labor | \$165        | 1     | 60    | \$83 | \$5,145 |                   |                 |      |          |
| <b>Total</b>                        |                                |              |       |       |      |         |                   |                 |      | \$32,114 |

\*Final Road Maintenance Only

**SUMMARY OF ALL PROJECT COSTS**

**SALE NAME:** Foster's 40

**NEW CONSTRUCTION:**

Project No. 1

|               | <u>Road segment</u>   | <u>Length/Sta</u> | <u>Cost</u> |
|---------------|---|-------------------|-------------|
| Rocked Roads  | 1a-1b, 2a-2b, 2c-2d 2e-2f, 2g,<br>2h-2i, 2j-2k, 3a-3b, 4a-4b, 4c-<br>4d | 102.60            | \$132,756   |
| Dirt Roads    | 1c-1d, 1e-1f  | 11.70             | \$3,264     |
| <b>TOTALS</b> | 2.16 miles  | 114.30            | \$136,020   |

**ROAD IMPROVEMENT:**

Project No. 1

|               | <u>Road segment</u>                         | <u>Length/Sta</u> | <u>Cost</u> |
|---------------|---|-------------------|-------------|
|               | I1-I2, I3-I4, I5-I6, I7-I8, I9-I10, I11-I12 | 126.15            | \$25,266    |
| <b>TOTALS</b> | 2.39 miles                                  | 126.15            | \$25,266    |

**ROAD VACATING**

Project No. 2

|               | <u>Road segment</u>            | <u>Length/Sta</u> | <u>Cost</u> |
|---------------|--------------------------------|-------------------|-------------|
|               | V1-V2, V3-V4, V5, V6-V7, V8-V9 | 21.10             | \$6,605     |
| <b>TOTALS</b> |                                |                   | \$6,605     |

**STREAM ENHANCEMENT**

Project No. 3

|               | <u>Cost</u> |
|---------------|-------------|
| SE1-SE2       | \$3,000     |
| <b>TOTALS</b> | \$3,000     |

**SPECIAL PROJECTS:**

|                               |          |
|-------------------------------|----------|
| Project Work Road Maintenance | \$11,284 |
|-------------------------------|----------|

**MOVE IN:**

| <u>Equipment</u>           | <u>Cost</u> |
|----------------------------|-------------|
| Dozer (D8)                 | \$1,220     |
| Dump Trucks (12 cy x 4)    | \$564       |
| Dunp Trucks (20cy x 2)     | \$332       |
| F E Loader (C966)          | \$675       |
| Grader (14G)               | \$675       |
| Rubber Tire Skidder (C518) | \$622       |
| Vibratory Roller           | \$675       |
| Water Truck (2,500 gallon) | \$165       |
| Backhoe (C 580)            | \$279       |
| Excavator (C312)           | \$699       |
| Excavator (C330)           | \$1,220     |
| <b>TOTAL</b>               | \$7,126     |

**GRAND TOTAL** **\$189,301**

Compiled By: Kberry FL

Date: 05/05/2011

SUMMARY OF CONSTRUCTION COSTS

SALE NAME: Foster's 40 (surfaced roads) 114.30 STATIONS 2.16 MILES  
 ROAD: 1a-1b, 2a-2b, 2c-2d, 2e-2f, 2g, 2h-2i, 2j-2k, 3a-3b, 4a-4b, 4c-4d (surfaced roads 102, +60)  
 POINTS: 1c-1d, 1e-1f (dirt roads 11+70)

| Method  | Acres/amount | x | Rate       | = | Cost            |
|---|--------------|---|------------|---|-----------------|
| Scatter Outside RW  |              | x |            | = |                 |
| 1a-1b, 2a-2b, 2c-2d, 2e-2f, 2h-2i, 2j-2k, 3a-3b, 4a-4b, 4c-4d | 10.00        | x | \$1,161.00 | = | \$11,610.00     |
| 1c-1d, 1e-1f  | 1.00         | x | \$1,161.00 | = | \$1,161.00      |
| <b>SUB TOTAL FOR CLEARING &amp; GRUBBING</b>                  |              |   |            |   | <b>\$12,771</b> |

| Material  | Cy/amount | x | Rate     | = | Cost            |
|---|-----------|---|----------|---|-----------------|
| Rocked roads  |           | x |          | = |                 |
| Common Drift \$\$/cu yd   | 8,326.00  | x | \$1.60   | = | \$13,321.60     |
| Balanced Construction \$\$/Sta  | 4.80      | x | \$106.00 | = | \$508.80        |
| Cut-slope Rounding \$\$/Sta   | 30.00     | x | \$37.00  | = | \$1,110.00      |
| Embankment Compaction \$\$/Cu yd  | 7,950.00  | x | \$0.60   | = | \$4,770.00      |
| End haul excavation (1a-1b, 3a-3b)  | 2,000.00  | x | \$3.50   | = | \$7,000.00      |
| Waste area compaction   | 2,000.00  | x | \$0.30   | = | \$600.00        |
| Balanced Construction \$\$/Sta  | 11.70     | x | \$106.00 | = | \$1,240.20      |
| Landings \$\$/Landing, 1a-1b(sta 1+00), 1d, 1f, 2b, 2c to 2d(sta 6+00, 8+20), 2f, 2g, 2i, 2k, 3a-3b(sta 10+75, 37+00), 3b, 4b, 4d | 15.00     | x | \$338.00 | = | \$5,070.00      |
| Roadside Landing Daylighting \$\$/Hr. (D8)  | 4.00      | x | \$147.00 | = | \$588.00        |
| <b>SUB TOTAL FOR EXCAVATION</b>   |           |   |          |   | <b>\$34,209</b> |

| Location      | Dialtype | Lineal ft. | Rate    | Cost     |
|---------------|----------|------------|---------|----------|
| 1a-1b (2+10)  | 18/cpp   | 40         | \$17.64 | \$705.60 |
| 1a-1b (6+00)  | 18/cpp   | 40         | \$17.64 | \$705.60 |
| 1a-1b (8+00)  | 18/cpp   | 30         | \$17.64 | \$529.20 |
| 3a-3b (1+70)  | 18/cpp   | 40         | \$17.64 | \$705.60 |
| 3a-3b (2+70)  | 24/cpp   | 40         | \$24.64 | \$985.60 |
| 3a-3b (5+10)  | 18/cpp   | 40         | \$17.64 | \$705.60 |
| 3a-3b (8+75)  | 18/cpp   | 30         | \$17.64 | \$529.20 |
| 3a-3b (12+65) | 18/cpp   | 30         | \$17.64 | \$529.20 |
| 3a-3b (16+50) | 18/cpp   | 30         | \$17.64 | \$529.20 |
| 4a-4b (5+00)  | 18/cpp   | 40         | \$17.64 | \$705.60 |
| 4c-4d (4+75)  | 18/cpp   | 30         | \$17.64 | \$529.20 |

| Description   | Quantity | Rate     | Cost           |
|---|----------|----------|----------------|
| Construct dissipator 5Hrs @ \$144.00/hr                   | 5        | \$144.00 | \$720.00       |
| Beveling 24" culvert                                      |          | \$24.00  | \$24.00        |
| Seeding and mulching waste areas                          |          | \$500.00 | \$500.00       |
| Install 5' Fiberglass Markers @ \$18.00 each              | 11       | \$18.00  | \$198.00       |
| <b>Other/miscellaneous:</b>                               |          |          |                |
| Culvert stakes & markers:                                 |          |          |                |
| <b>SUB TOTAL FOR CULVERT MATERIALS &amp; INSTALLATION</b> |          |          | <b>\$8,602</b> |

Subtotal of Clearing, Exc, Culv, **\$55,561**

| SURFACING      |                            | Stations/ amount | x | Rate/ sta/amt | Cost       |
|----------------|----------------------------|------------------|---|---------------|------------|
| Subgrade prep: | Description                |                  |   |               |            |
|                | Grade, Shape and Ditch 16' | 102.60           | x | \$21.55       | \$2,211.03 |
|                | Subgrade Compaction        | 102.60           | x | \$17.52       | \$1,797.55 |
|                | Outslope 14'               | 11.70            | x | \$15.93       | \$188.38   |

| ROAD SEGMENT                 |                    | 1a-1b         |                        | POINT TO POINT  |           | Sta. to Sta.  |           | TOTAL VOLUME (CY) | Rate/ Sta./ amt. | Cost    |
|------------------------------|--------------------|---------------|------------------------|-----------------|-----------|---------------|-----------|-------------------|------------------|---------|
| Application                  | Rock Size and Type | Location      | Depth of Rock (inches) | Volume (CY) per | Number of | 0+00 to 14+50 | Number of |                   |                  |         |
| Base Rock                    | 4"-0" Crushed      | 0+00 to 14+50 | 8                      | Station         | 50        | Stations      | 14.50     | 725               | \$9.20           | \$6,670 |
| Turnarounds                  | 4"-0" Crushed      | 14+50         | 8                      | TA              | 22        | TA's          | 1.00      | 22                | \$9.20           | \$202   |
| Landings                     | 6"-0" Pit-run      | 1+00          | N/A                    | Landings        | 50        | Landings      | 1.00      | 50                | \$10.98          | \$549   |
| Dissipator                   | 24"-6" Rip-rap     | 2+10, 6+00    | N/A                    | Dissipator      | 20        | Dissipators   | 2         | 40                | \$11.59          | \$464   |
| Total Rock for Road Segment: |                    |               |                        | 1a-1b           |           |               |           | 837               |                  | \$7,885 |

| ROAD SEGMENT                 |                    | 2a-2b        |                        | POINT TO POINT  |           | Sta. to Sta. |           | TOTAL VOLUME (CY) | Rate/ Sta./ amt. | Cost    |
|------------------------------|--------------------|--------------|------------------------|-----------------|-----------|--------------|-----------|-------------------|------------------|---------|
| Application                  | Rock Size and Type | Location     | Depth of Rock (inches) | Volume (CY) per | Number of | 0+00 to 2+80 | Number of |                   |                  |         |
| Base Rock                    | 4"-0" Crushed      | 0+00 to 2+80 | 8                      | Station         | 50        | Stations     | 2.80      | 140               | \$9.20           | \$1,288 |
| Junctions                    | 4"-0" Crushed      | 2a           | 8                      | Junction        | 22        | Junctions    | 1         | 22                | \$9.20           | \$202   |
| Landings                     | 6"-0" Pit-run      | 2b           | N/A                    | Landing         | 80        | Landings     | 1         | 80                | \$10.98          | \$878   |
| Total Rock for Road Segment: |                    |              |                        | 2a-2b           |           |              |           | 242               |                  | \$2,369 |

| ROAD SEGMENT                 |                    | 2c-2d        |                        | POINT TO POINT  |           | Sta. to Sta. |           | TOTAL VOLUME (CY) | Rate/ Sta./ amt. | Cost    |
|------------------------------|--------------------|--------------|------------------------|-----------------|-----------|--------------|-----------|-------------------|------------------|---------|
| Application                  | Rock Size and Type | Location     | Depth of Rock (inches) | Volume (CY) per | Number of | 0+00 to 8+20 | Number of |                   |                  |         |
| Base Rock                    | 4"-0" Crushed      | 0+00 to 8+20 | 8                      | Station         | 50        | Stations     | 8.20      | 410               | \$9.20           | \$3,772 |
| Junctions                    | 4"-0" Crushed      | 2c           | 8                      | Junction        | 22        | Junctions    | 1         | 22                | \$9.20           | \$202   |
| Traction rock                | 1 1/2"-0" Crushed  | 1+50 to 5+50 | 3                      | Station         | 19        | Stations     | 4         | 76                | \$4.83           | \$367   |
| Landings                     | 6"-0" Pit-run      | 6+00, 2d     | N/A                    | Landing         | 80        | Landings     | 2         | 160               | \$10.98          | \$1,757 |
| Total Rock for Road Segment: |                    |              |                        | 2c-2d           |           |              |           | 668               |                  | \$6,098 |

| ROAD SEGMENT                 |                    | 2e-2f         |                        | POINT TO POINT  |           | Sta. to Sta.  |           | TOTAL VOLUME (CY) | Rate/ Sta./ amt. | Cost    |
|------------------------------|--------------------|---------------|------------------------|-----------------|-----------|---------------|-----------|-------------------|------------------|---------|
| Application                  | Rock Size and Type | Location      | Depth of Rock (inches) | Volume (CY) per | Number of | 0+00 to 13+00 | Number of |                   |                  |         |
| Base Rock                    | 4"-0" Crushed      | 0+00 to 13+00 | 8                      | Station         | 50        | Stations      | 13.00     | 650               | \$9.20           | \$5,980 |
| Junctions                    | 4"-0" Crushed      | 2e            | 8                      | Junction        | 22        | Junctions     | 1.00      | 22                | \$9.20           | \$202   |
| Turnouts                     | 4"-0" Crushed      | 8+40          | 8                      | Turnout         | 22        | Turnouts      | 1.00      | 22                | \$9.20           | \$202   |
| Turnarounds                  | 4"-0" Crushed      | 11+50         | 8                      | TA              | 22        | TA's          | 1.00      | 22                | \$9.20           | \$202   |
| Traction Rock                | 1 1/2"-0" Crushed  | 2+50 to 5+50  | 3                      | Station         | 19        | Stations      | 2.50      | 48                | \$4.83           | \$229   |
| Landings                     | 6"-0" Pit-run      | 2f            | N/A                    | Landing         | 80        | Landings      | 1.00      | 80                | \$10.98          | \$878   |
| Total Rock for Road Segment: |                    |               |                        | 2e-2f           |           |               |           | 844               |                  | \$7,695 |

| ROAD SEGMENT                 |                    | 2g       |                        | POINT TO POINT  |           | Sta. to Sta. |           | TOTAL VOLUME (CY) | Rate/ Sta./ amt. | Cost  |
|------------------------------|--------------------|----------|------------------------|-----------------|-----------|--------------|-----------|-------------------|------------------|-------|
| Application                  | Rock Size and Type | Location | Depth of Rock (inches) | Volume (CY) per | Number of | 0+00 to 1+00 | Number of |                   |                  |       |
| Landing                      | 6"-0" Pit-run      | 1+00     | N/A                    | Landing         | 80        | Landings     | 1.00      | 80                | \$10.98          | \$878 |
| Total Rock for Road Segment: |                    |          |                        | 2g              |           |              |           | 80                |                  | \$878 |

| ROAD SEGMENT                 |                    | 2h-2i        |                        | POINT TO POINT  |           | Sta. to Sta. |           | TOTAL VOLUME (CY) | Rate/ Sta./ amt. | Cost    |
|------------------------------|--------------------|--------------|------------------------|-----------------|-----------|--------------|-----------|-------------------|------------------|---------|
| Application                  | Rock Size and Type | Location     | Depth of Rock (inches) | Volume (CY) per | Number of | 0+00 to 1+00 | Number of |                   |                  |         |
| Base Rock                    | 4"-0" Crushed      | 0+00 to 1+00 | 8                      | Station         | 50        | Stations     | 1.00      | 50                | \$9.20           | \$460   |
| Junctions                    | 1 1/2"-0" Crushed  | 2h           | 8                      | Junction        | 22        | Junctions    | 1.00      | 22                | \$4.83           | \$106   |
| Landings                     | 6"-0" Pit-run      | 2i           | N/A                    | Landing         | 80        | Landings     | 1.00      | 80                | \$10.98          | \$878   |
| Total Rock for Road Segment: |                    |              |                        | 2h-2i           |           |              |           | 152               |                  | \$1,445 |

| ROAD SEGMENT                 |                    | 2j-2k        |                        | POINT TO POINT  |           | Sta. to Sta. |           | TOTAL VOLUME (CY) | Rate/ Sta./ amt. | Cost    |
|------------------------------|--------------------|--------------|------------------------|-----------------|-----------|--------------|-----------|-------------------|------------------|---------|
| Application                  | Rock Size and Type | Location     | Depth of Rock (inches) | Volume (CY) per | Number of | 0+00 to 1+00 | Number of |                   |                  |         |
| Base Rock                    | 4"-0" Crushed      | 0+00 to 1+00 | 8                      | Station         | 50        | Stations     | 1.00      | 50                | \$9.20           | \$460   |
| Junctions                    | 1 1/2"-0" Crushed  | 2j           | 8                      | junction        | 22        | junctions    | 1.00      | 22                | \$4.83           | \$106   |
| Landings                     | 6"-0" Pit-run      | 2k           | N/A                    | Landing         | 80        | Landings     | 1.00      | 80                | \$10.98          | \$878   |
| Total Rock for Road Segment: |                    |              |                        | 2j-2k           |           |              |           | 152               |                  | \$1,445 |

| ROAD SEGMENT                 |                    | 3a-3b                                   |                        | POINT TO POINT  |           | Sta. to Sta.  |           | TOTAL VOLUME (CY) | Rate/ Sta./ amt. | Cost     |
|------------------------------|--------------------|---|------------------------|-----------------|-----------|---------------|-----------|-------------------|------------------|----------|
| Application                  | Rock Size and Type | Location                                | Depth of Rock (inches) | Volume (CY) per | Number of | 0+00 to 37+80 | Number of |                   |                  |          |
| Base Rock                    | 4"-0" Crushed      | 0+00 to 37+80                           | 8                      | Station         | 50        | Stations      | 37.80     | 1,890             | \$9.20           | \$17,388 |
| Junctions                    | 4"-0" Crushed      | 3a                                      | 8                      | Junction        | 22        | Junctions     | 1.00      | 22                | \$9.20           | \$202    |
| Turnouts                     | 4"-0" Crushed      | 14+25, 18+40, 24+20, 30+00              | 8                      | TO              | 22        | TO's          | 4.00      | 88                | \$9.20           | \$810    |
| Turnarounds                  | 4"-0" Crushed      | 35+00                                   | 8                      | TA              | 22        | TA's          | 1.00      | 22                | \$9.20           | \$202    |
| Dissipator                   | 24"-6" Rip-rap     | 1+70, 2+70, 5+10                        | 8                      | Dissipator      | 20        | Dissipators   | 3.00      | 60                | \$11.59          | \$695    |
| Surface Rock                 | 1 1/2"-0" Crushed  | 0+00 to 18+40, 25+00 to 27+00, 30+00 to | 3                      | Station         | 19        | Stations      | 23.90     | 454               | \$4.83           | \$2,193  |
| Turnouts                     | 1 1/2"-0" Crushed  | 14+25, 18+40, 24+20, 30+00              | 3                      | Turnout         | 11        | Turnouts      | 4.00      | 44                | \$4.83           | \$213    |
| Landings                     | 6"-0" Pit-run      | 10+75                                   | N/A                    | Landing         | 50        | Landings      | 1.00      | 50                | \$10.98          | \$549    |
| Landings                     | 6"-0" Pit-run      | 37+00, 3b                               | N/A                    | Landing         | 80        | Landings      | 2.00      | 160               | \$10.98          | \$1,757  |
| Total Rock for Road Segment: |                    |   |                        | 3a-3b           |           |               |           | 2,790             |                  | \$24,009 |

| ROAD SEGMENT                 |                    | 4a-4b        |                        | POINT TO POINT  |           | Sta. to Sta. |           | TOTAL VOLUME (CY) | Rate/ Sta./ amt. | Cost    |
|------------------------------|--------------------|--------------|------------------------|-----------------|-----------|--------------|-----------|-------------------|------------------|---------|
| Application                  | Rock Size and Type | Location     | Depth of Rock (inches) | Volume (CY) per | Number of | 0+00 to 8+20 | Number of |                   |                  |         |
| Base Rock                    | 4"-0" Crushed      | 0+00 to 8+20 | 8                      | Station         | 50        | Stations     | 8.20      | 410               | \$9.20           | \$3,772 |
| Junctions                    | 4"-0" Crushed      | 4a           | 8                      | Junction        | 22        | Junctions    | 1.00      | 22                | \$9.20           | \$202   |
| Turnouts                     | 4"-0" Crushed      | 3+00         | 8                      | Turnout         | 22        | Turnouts     | 1         | 22                | \$9.20           | \$202   |
| Turnarounds                  | 4"-0" Crushed      | 6+70         | 8                      | TA              | 22        | TA's         | 1         | 22                | \$9.20           | \$202   |
| Traction Rock                | 1 1/2"-0" Crushed  | 1+00 to 4+00 | 3                      | Station         | 19        | Stations     | 5         | 95                | \$4.83           | \$459   |
| Landings                     | 6"-0" Pit-run      | 4d           | N/A                    | Landing         | 80        | Landings     | 1         | 80                | \$10.98          | \$878   |
| Total Rock for Road Segment: |                    |              |                        | 4a-4b           |           |              |           | 651               |                  | \$5,716 |





| SURFACING      |                            | Stations/ amount | x | Rate/ sta/amt | Cost       |
|----------------|----------------------------|------------------|---|---------------|------------|
| Subgrade prep: | Description                |                  |   |               |            |
|                | Grade, Shape and Ditch 16' | 121.20           | x | \$21.55       | \$2,611.86 |
|                | Subgrade Compaction        | 114.40           | x | \$17.52       | \$2,004.29 |

| ROAD SEGMENT 11 to 12        |                    |          | POINT TO POINT  | Sta. to Sta. | TOTAL VOLUME (CY) | Rate/ Sta./ amt. | Cost  |        |         |
|------------------------------|--------------------|----------|-----------------|--------------|-------------------|------------------|-------|--------|---------|
| Application                  | Rock Size and Type | Location | 11 to 12        | 0+00 - 85+44 |                   |                  |       |        |         |
|                              |                    |          | Volume (CY) per | Number of    |                   |                  |       |        |         |
| Surface Rock                 | 3/4"-0" crushed    |          | 3" station      | 19           | stations          | 85.44            | 1,623 | \$3.89 | \$6,315 |
| Junctions                    | 3/4"-0" crushed    |          | 3" junction     | 10           | junctions         | 6                | 60    | \$3.89 | \$233   |
| Turnouts                     | 3/4"-0" crushed    |          | 3" turnout      | 8            | turnouts          | 12               | 96    | \$3.89 | \$373   |
| Curve Widening               | 3/4"-0" crushed    |          | 3" curve        | n/a          | curves            | 13               | 125   | \$3.89 | \$486   |
| Leveling Rock                | 3/4"-0" crushed    |          | 3" load         | 11           | loads             | 6                | 66    | \$3.89 | \$257   |
| Total Rock for Road Segment: |                    |          |                 |              |                   |                  | 1,970 |        | \$7,685 |

| ROAD SEGMENT 13 to 14        |                    |          | POINT TO POINT | Sta. to Sta. | TOTAL VOLUME (CY) | Rate/ Sta./ amt. | Cost |        |       |
|------------------------------|--------------------|----------|----------------|--------------|-------------------|------------------|------|--------|-------|
| Application                  | Rock Size and Type | Location | 13 to 14       | 0+00 - 5+76  |                   |                  |      |        |       |
| Surface Rock                 | 1 1/2"-0" crushed  |          | 3" station     | 19           | stations          | 5.76             | 109  | \$4.83 | \$529 |
| Turnouts                     | 1 1/2"-0" crushed  |          | 3" turnout     | 8            | turnouts          | 1                | 8    | \$4.83 | \$39  |
| Curve Widening               | 1 1/2"-0" crushed  |          | 3" curve       |              | curves            | 2                | 15   | \$4.83 | \$72  |
| Total Rock for Road Segment: |                    |          |                |              |                   |                  | 132  |        | \$640 |

| ROAD SEGMENT 17-18           |                    |          | POINT TO POINT | Sta. to Sta.  | TOTAL VOLUME (CY) | Rate/ Sta./ amt. | Cost |        |         |
|------------------------------|--------------------|----------|----------------|---------------|-------------------|------------------|------|--------|---------|
| Application                  | Rock Size and Type | Location | 17 to 18       | 0+00 to 12+20 |                   |                  |      |        |         |
| Base Rock                    | 1 1/2"-0" crushed  |          | 4" station     | 25            | stations          | 12.20            | 305  | \$4.83 | \$1,473 |
| Leveling Rock                | 1 1/2"-0" crushed  |          | 4" load        | 11            | loads             | 4                | 44   | \$4.83 | \$213   |
| Junctions                    | 1 1/2"-0" crushed  |          | 4" junction    | 11            | junctions         | 1                | 11   | \$4.83 | \$53    |
| Total Rock for Road Segment: |                    |          |                |               |                   |                  | 360  |        | \$1,739 |

| ROAD SEGMENT 19-110          |                    |          | POINT TO POINT | Sta. to Sta. | TOTAL VOLUME (CY) | Rate/ Sta./ amt. | Cost |        |         |
|------------------------------|--------------------|----------|----------------|--------------|-------------------|------------------|------|--------|---------|
| Application                  | Rock Size and Type | Location | 19 to 110      | 0+00 to 8+00 |                   |                  |      |        |         |
| Base Rock                    | 1 1/2"-0" crushed  |          | 4" station     | 25           | stations          | 8.00             | 200  | \$4.83 | \$966   |
| Leveling Rock                | 1 1/2"-0" crushed  |          | 4" load        | 11           | loads             | 2                | 22   | \$4.83 | \$106   |
| Total Rock for Road Segment: |                    |          |                |              |                   |                  | 222  |        | \$1,072 |

| ROAD SEGMENT 111-112         |                    |           | POINT TO POINT | Sta. to Sta. | TOTAL VOLUME (CY) | Rate/ Sta./ amt. | Cost |        |       |
|------------------------------|--------------------|-----------|----------------|--------------|-------------------|------------------|------|--------|-------|
| Application                  | Rock Size and Type | Location  | 111 to 112     | 0+00 to 9+80 |                   |                  |      |        |       |
| Traction Rock                | 1 1/2"-0" crushed  | 6+00-9+00 | 3" station     | 19           | stations          | 3.00             | 57   | \$4.83 | \$275 |
| Total Rock for Road Segment: |                    |           |                |              |                   |                  | 57   |        | \$275 |

| Processing: | Description               | # Lifts | No. sta | Rate/sta | Cost    |
|-------------|---------------------------|---------|---------|----------|---------|
|             | Water, Process & Compact: | 1       | 121.20  | \$49.02  | \$5,941 |

| SUB TOTAL FOR SURFACING | 6"-0" pr | 4"-0" | 1 1/2"-0" | 3/4"-0" | Total |          |
|-------------------------|----------|-------|-----------|---------|-------|----------|
|                         |          |       | 771       | 1,970   | 2,742 | \$21,948 |

| SPECIAL PROJECTS               |  | Description                                   | Cost      |
|--------------------------------|--|---|-----------|
|                                |  | FE Loader (C966) Move Between Stockpile Sites | \$ 154.00 |
| SUB TOTAL FOR SPECIAL PROJECTS |  |   | \$154     |

Subtotal of Surfacing & Spec. Proj. \$22,102  
Subtotal of Clearing, Exc., Culv. \$3,164

| GRAND TOTAL |          |
|-------------|----------|
|             | \$25,266 |

Compiled By: d.mellison

Date: 04/11/11



| <b>Vacating Cost Summary</b>   |                      |
|--------------------------------|----------------------|
|                                | Total Appraised Cost |
| Mobilization                   | \$ 385.00            |
| V1 to V2                       | \$ 3,312.00          |
| V3 to V4                       | \$ 777.00            |
| V5                             | \$ 278.00            |
| V6 to V7                       | \$ 996.00            |
| V8 to V9                       | \$ 857.00            |
| <b>Grand Total of Vacating</b> | <b>\$ 6,605</b>      |

**MOVE IN:**

| Road Segment | Description                                    | Equipment                                 | Cost             |
|--------------|--|---|------------------|
| V1 to V2     | Equipment on site<br>Moved in with road const. |   | \$ -             |
| V5           | Secondary mobilization<br>From V3 to V4        | Excavator (C312)<br>and dump tr./tilt bed | \$ 300.00        |
| V6 to V7     | Move from work on V5<br>1 hr.                  | Excavator (C312)                          | \$ 85.00         |
| V8 to V9     | Equipment on site<br>Moved in with road const. |   | \$ -             |
| <b>TOTAL</b> |  |   | <b>\$ 385.00</b> |

**Foster's 40**

**Foster's 40 Vacating. Project No. 2 Vacating. V1 to V2**

| Location/Description  | 330#1 | Dump Truck #1 | Dump Truck #2 | Laborer | Straw | Seed |
|---|-------|---------------|---------------|---------|-------|------|
| 0+00 to 0+60<br>Remove fill. Develop minimum 4' stream channel.<br>End haul material to waste area. | 6     | 6             | 6             | 2       | 10    | 15   |
| 0+60 to 3+00<br>Sidecast pullback.<br>End haul material to waste area.                              | 4     | 4             | 4             | 2       | 10    | 15   |
|   | 10    | 10            | 10            | 4       | 20    | 30   |

\$ 1,440.00 \$ 730.00 \$ 730.00 \$ 152.00 \$ 200.00 \$ 60.00

Total Estimated Cost \$ 3,312.00

**Foster's 40**

**Foster's 40 Vacating. Project No. 2 Vacating. V3 to V4**

| Location/Description  | 312       | Laborer   | Straw     | Seed     |
|---|-----------|-----------|-----------|----------|
| 0+00 to 6+70<br>Waterbar and block road.  | 2         | 1         | 5         | 10       |
| 4+60<br>Remove fill. Develop minimum 4' stream channel.<br>Place material in old grade. | 1         | 0.5       | 3         | 5        |
| 5+50<br>Remove fill. Develop minimum 4' stream channel.<br>Place material in old grade. | 1         | 0.5       | 2         | 5        |
| 6+00 to 6+50<br>Pulback sidecast material and outslope road<br>to improve drainage.     | 0.5       | 1         | 2         | 5        |
| 6+50<br>Pulback fill and improve drainage.<br>Develop minimum 4' stream channel         | 0.5       | 1         | 2         | 5        |
|   | 5         | 4         | 14        | 30       |
|   | \$ 425.00 | \$ 152.00 | \$ 140.00 | \$ 60.00 |

Total Estimated Cost

\$ 777.00

**Foster's 40**

**Foster's 40 Vacating. Project No. 2 Vacating. V5**

| Location/Description  | 312       | Laborer  | Straw    | Seed     |
|---|-----------|----------|----------|----------|
| Point V5<br>Access. Remove fill to improve drainage.<br>Place waste material on old grade.<br>Construct waterbars 100' each side. | 2         | 1        | 5        | 10       |
|   | 2         | 1        | 5        | 10       |
|   | \$ 170.00 | \$ 38.00 | \$ 50.00 | \$ 20.00 |

Total Estimated Cost                    \$ 278.00

**Foster's 40**

**Foster's 40 Vacating. Project No. 2 Vacating. V6 to V7**

| Location/Description  | 312       | Laborer   | Straw     | Seed     |
|---|-----------|-----------|-----------|----------|
| 0+00 to 8+50<br>Access, waterbar and block road.  | 1         | 1         | 3         | 5        |
| 3+00<br>Construct waterbar and establish drainage.  | 0.5       | 1         | 2         | 5        |
| 5+25<br>Remove fill reachable with 312, until fill is breached, waste area filled, or hours reached. Use old grade and key into bank for waste area. Deck logs. | 5         | 2         | 10        | 15       |
| 8+50<br>Waterbar approach to fill. Pullback fill material if excavator can access without damaging trees.   | 0.5       | 0.5       | 2         | 5        |
|   | 7         | 4.5       | 17        | 30       |
|   | \$ 595.00 | \$ 171.00 | \$ 170.00 | \$ 60.00 |

Total Estimated Cost \$ 996.00

**Foster's 40**

**Foster's 40 Vacating. Project No. 2 Vacating. V8 to V9**

| Location/Description   | 330#1     | Dump Truck #1 | Laborer  | Straw     | Seed     |
|--|-----------|---------------|----------|-----------|----------|
| 0+00 to 1+00<br>Sidecast pullback.<br>End haul material to waste area. | 3         | 3             | 2        | 10        | 15       |
|  | 3         | 3             | 2        | 10        | 15       |
|  | \$ 432.00 | \$ 219.00     | \$ 76.00 | \$ 100.00 | \$ 30.00 |

Total Estimated Cost \$ 857.00













Foster's 40 PROJECT No. 3 - STREAM ENHANCEMENT

| Location   | # of Structures | # of Pieces | \$/Log | Cost    |
|------------|-----------------|-------------|--------|---------|
| SE1 to SE2 | 3               | 15          | 200    | \$3,000 |

Note: 5 trees allocated per structure.

2 logs/tree = 10 trees.

10 logs will have root wads attached.

**Road Maintenance after completion of Projects**

**Sale:** Foster's 40  
**Date:** 11-May-11  
**By:** Kberry FL

| Type         | Equipment/Rationale      | Hours | Rate | Cost            |
|--------------|--------------------------|-------|------|-----------------|
|              | Grader 14G               | 45    | \$93 | \$4,185         |
| Final Haul   | Dump Truck 12CY (X2)     | 16    | \$73 | \$1,168         |
| Road         | FE Loader C966           | 8     | \$77 | \$616           |
| Maintenance  | Vibratory Roller         | 45    | \$72 | \$3,240         |
| Haul Route   | Water Truck 2,500 gallon | 25    | \$83 | \$2,075         |
| <b>Total</b> |                          |       |      | <b>\$11,284</b> |

| Miles/day | Distance(miles) | Days |
|-----------|-----------------|------|
| 1.5       | 6.5             | 4.3  |
| 1.5       | 6.5             | 4.3  |

Production Rates  
 Grader  
 Vibratory Roller

**Foster's 40  
TIMBER CRUISE REPORT  
FY 2011**

1. **Sale Area Location:** Areas 1, 2, 3, 4, and 5 R/W are located in portions of Sections 20, 21, 28, & 29, of T7N, R6W, W.M., Clatsop County, Oregon
2. **Fund Distribution:** BOF 100%  
Tax Code 30-05 (100%)
3. **Sale Acreage by Area:**

| Area          | Treatment         | Gross Acres | GTRA      | New R/W   | Stream Buffer | Non-Thinnable | Net Acres  | Survey Method |
|---------------|-------------------|-------------|-----------|-----------|---------------|---------------|------------|---------------|
| 1             | Modified Clearcut | 70          | 9         | 3         | 10            | -             | 48         | GIS           |
| 2             | Partial Cut       | 147         | -         | 4         | 15            | 3             | 125        | GIS           |
| 3             | Modified Clearcut | 77          | 16        | 1         | 12            | -             | 48         | GIS           |
| 4             | Partial Cut       | 58          | -         | 3         | 3             | -             | 52         | GIS           |
| 5 (R/W)       | Right-of-Way      | 11          |           |           |               |               | 11         |               |
| <b>TOTALS</b> |                   | <b>363</b>  | <b>25</b> | <b>11</b> | <b>40</b>     | <b>3</b>      | <b>284</b> |               |

4. **Cruisers and Cruise Dates:** Areas 1, 2, 3, and 4 were cruised by Derek Bangs, Jon Long, Jasen McCoy, Kevin Berry, Bryce Rodgers, and Craig Kirkpatrick, April, 2011.

**5. Cruise Method and Computation:**

Areas 1 and 3 are modified clearcut units and were variable plot cruised using a 40 BAF. These plots are located on a 3 chain by 8 chain grid, with every third plot measured and graded. A total of 44 plots were sampled, with 14 measured and graded plots, and 30 count plots. Cedar is a reserve species, and was recorded as "leave" trees.

Areas 2 and 4 are "auto-mark" thinning unit (SDI 32), and was variable plot cruised using a 40 BAF. These plots are located on a 4 chain by 10 chain grid, with every other plot measured and graded. A total of 45 plots were sampled, with 17 measured and graded plots, and 28 count plots. Cedar is a reserve species, and was recorded as "leave" trees. The "biggest and best" trees were recorded as "leave" trees to meet a target residual basal area of 150 ft<sup>2</sup>/acre.

Area 5 R/W The right-of-way volume within the harvest areas was calculated by multiplying the R/W acreage and the average volume per acre from the plots in Areas 2 and 4. In-sale right-of-way totals 11 acres.

All cruisers used Corvallis MicroTechnology (CMT) and/or Allegro data collectors, and were downloaded to the Atterbury Super A.C.E. program in District for computing. See the attached Cruise Design for more details on the cruise method. The cruise calculations were processed in the Astoria district office.

| AREA    | CRUISE        | TRACT  | TYPE | ACRES |
|---------|---------------|--------|------|-------|
| 1 and 3 | 07N06W SEC 28 | AREA13 | TAKE | 96    |
| 2 and 4 | 07N06W SEC 29 | AREA24 | TAKE | 177   |
| 5 R/W   | 07N06W SEC 29 | AREA24 | RW   | 11    |

**6. Timber Description:**

Areas 1 and 3 are modified clearcut units, approximately 50 to 60 year-old, consisting of Douglas-fir, western hemlock, red alder, and cedar. The average Douglas-fir tree size to be harvested is 24 inches DBH, with an average height of 82 feet to a merchantable top (6 inch d.i.b.). The average hemlock tree size is 16 inches DBH and 63 feet to a merchantable top (6 inch d.i.b.). The average alder tree size is 14 inches DBH and 39 feet to a merchantable top (6 inch d.i.b.). The average volume per acre to be harvested (net) is 31 MBF.

Area 2 and 4 are "auto-mark" thinning units, approximately 60 years old, consisting of Douglas-fir stands mixed with the occasional western hemlock, red alder, and cedar. This stand will be thinned to a SDI of 32 (150 Sq.Ft.BA), removing approximately 74 trees per acre and 15 MBF/acre. The average Douglas-fir "take" tree size is 19 inches DBH and 72 feet to a merchantable top (6 inch d.i.b.).

Area 5 R/W is similar to the timber description mentioned above for Areas 2 and 4. The average volume (net) is approximately 39 MBF/acre.

**7. Statistical Analysis and Stand Summary:** (See "Statistics" - Type Reports, attached)

Statistics for Stand B.F. volumes

| Area         | Estimated CV | Target SE% | Actual CV | Actual SE% |
|--------------|--------------|------------|-----------|------------|
| 1 and 3 (MC) | 50%          | 9%         | 58.8%     | 9.3%       |
| 2 and 4 (PC) | 45%          | 9%         | 43.6%     | 6.5%       |

**8. Volumes by Species and Log Grade:** (See "Species, Sort, Grade - Type and Project Reports, attached, of individual sale areas and combined areas and two cruise types).

Volumes by Species and Grade for All Sale Areas: (MBF) Volumes do not include "in-growth."

| Species          | DBH | Net Vol.     | 2 Saw        | 3Saw         | 4 Saw      | CampRun    | % D & B | % Sale |
|------------------|-----|--------------|--------------|--------------|------------|------------|---------|--------|
| Douglas-fir      | 22" | 4,314        | 3,249        | 985          | 80         | 0          | 8%      | 70%    |
| Hemlock/True-Fir | 16" | 1,163        | 491          | 621          | 51         | 0          | 7%      | 19%    |
| Alder            | 14" | 661          | 0            | 0            | 0          | 661        | 10%     | 12%    |
| Maple            | 17" | 12           | 0            | 0            | 0          | 12         | 15%     | <1%    |
| <b>TOTALS</b>    |     | <b>6,150</b> | <b>3,740</b> | <b>1,606</b> | <b>131</b> | <b>673</b> |         |        |

**9. Approvals:**

Prepared by: Jon Long Date: 5/05/11

Unit Forester Approval: C. R. B. B. Date: 6/3/11

**10. Attachments:**

- Cruise Designs and Maps - 6 pages
- Volume Reports - 4 pages
- Statistics Reports - 8 pages
- Log Stock Tables - 3 pages
- Stand Table Summary - 3 pages



**CRUISE DESIGN  
ASTORIA DISTRICT**

Sale Name: Foster's 40 Area(s) 1 & 3

Harvest Type: (MC)

Approx. Cruise Acres: 127 Estimated CV% 50 Net BF SE% Objective 9 Net BF

Planned Sale Volume: 4.7 mmbf Estimated Sale Area Value/Acre: \$11,880/Ac  
(36 MBF/Ac.)

A. **Cruise Goals:** (a) Grade minimum 100 conifer:  
(b) Sample 52 cruise plots (18 grade 34 count); (c) Other goals      Determine  
"automark" thinning standards; X Determine log grades for sale value; X  
Determine snag and leave tree species and sizes.

**B. Cruise Design:**

1. **Plot Cruises:** BAF 40 (Full point; Half point) (circle one)  
Cruise Line Direction(s) E-W  
Cruise Line Spacing 8 (chains)  
Cruise Plot Spacing 3 (chains)  
Grade/Count Ratio 1:2

All cedar are leave trees. Record all hardwood as camp run. Record all snags as SN and record total height and diameter. If plot lands in Type "N" buffer then offset at least 1/2 chain outside the buffer.

**C. Tree Measurements:**

1. **Diameter:** Minimum DBH to cruise is 8" for conifers and 10" for hardwoods.  
Record dbh to nearest 1/2" for trees < 16", to nearest 1" for trees 16-24", and to nearest 2" for trees > 24". If tree diameters are estimated (only estimate on variable plot cruises), then record to closest estimate.
2. **Bole Length:** Record bole length to nearest foot at TCD. For trees greater than 100 feet in merchantable height, estimating to the nearest 5 feet is acceptable.
3. **Top Cruise Diameter (TCD):** Minimum top outside bark is 7" for conifers and 7" for hardwoods or 40 % of dob at 16' form point. Generally, use 7" outside bark for trees < 18" dbh and 40% of dob @ FP for trees > 18" dbh.
4. **Form Factors:** (1) Measure or estimate a 16' form factor for every conifer tree measured/graded; OR (2) Measure a minimum of 20 form factors for each major conifer species on the cruise area, and use these to calculate average FF for the species on the cruise. Hardwood form factors are a Standard 87.

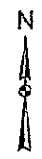
5. **Tree Segments:** Record log segments in "standard" log lengths in general use, such as 32' and 40' lengths, whenever possible. Do not record odd segments just to maximize grade. Cull segments can be any length. For conifers, minimum merchantable segment length is 12'; for hardwoods, it's 8'. Maximum segment length is 40'. One foot of trim is assumed for each merch. segment. Do not use "double dash" (--) feature on the data recorder except for the top segment of the tree.
6. **Species, Sort, and Grade Codes:**
- A. **Species:** Record as D (Douglas-fir); H (Western hemlock); S (Sitka Spruce); C (Western red cedar); NF (Noble fir); SF (Silver fir); A (Red alder); M (Bigleaf maple). For "leave trees" in partial cuts, or for marked "wildlife trees," add an "L" to the species code (such as DL, HL, CL, etc.)
- B. **Sort:** Use code "1" (Domestic).
- C. **Grade:** A = 1 Peeler; B = 2 Peeler; C = 3 Peeler; D = Special Mill; 2 = 2 Sawmill; 3 = 3 Sawmill; 4 = 4 Sawmill; 0 = Cull
7. **Deductions:** Estimate visible defect or damage as a "length deduction" (most often), or as a "diameter deduction," as applicable. Estimate hidden defect and breakage (usually some breakage is encountered in trees > 100 feet in height) on a "per tree" basis. Steep and broken topography generally results in higher breakage percentages than gentler topography, and hemlock generally breaks more than D-fir and spruce.
8. **Standard Field Procedures: Plot Type Cruises:** Mark cruise line beginning and end points with blue/yellow flagging. Write plot identification numbers and line direction on the ribbon. At each plot, tie yellow flagging above eye level near plot center and another yellow flagging around a sturdy wooden stake marking plot center. On each yellow flagging, write the plot identification number. Between plots, along the cruise line, tie blue flagging at inter-visible points, not to exceed 100' apart. On "measure/grade" plots write the tree number and/or tree diameter on at least the first measured tree (clockwise from the line direction) in yellow paint. All trees on the plot may be marked this way, if the cruiser chooses.
9. **Cruising Equipment:** Relaskop, Rangefinder, Logger's Tape (with dbh on back) Biltmore Stick, Compass, Cruise Cards in Tatum OR Data Recorder, Cruise Design, Cruise Map, Yellow Flagging, Blue Flagging, Yellow Paint.
10. **Attachments:** A. Cruise Map (showing cruise unit boundaries, roads, streams, approx. acres/unit, cruise lines and plot locations, legal description and section lines, BAF or plot size, measure/count plot ratio, north arrow, and scale.

Cruise Design by: Kevin Berry  
 Approved by: Jon Long  
 Date: 3/9/2011

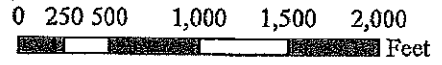
OF TIMBER SALE CONTRACT NO. 341-11-04  
FOSTERS 40  
PORTIONS OF SECTIONS 20, 21, 28, & 29  
T7N, R6W W.M., CLATSOP COUNTY, OREGON

Approximate Net Acreage:

- Area 1 (MC) - 62 Acres
- Area 2 (PC) - 12 Acres
- Area 3 (MC) - 65 Acres
- Area 4 (PC) - 45 Acres
- Area 5 (R/W) - 0 Acres
- Total PC - 166 Acres
- Total MC - 123 Acres
- Total Acres - 294 Acres



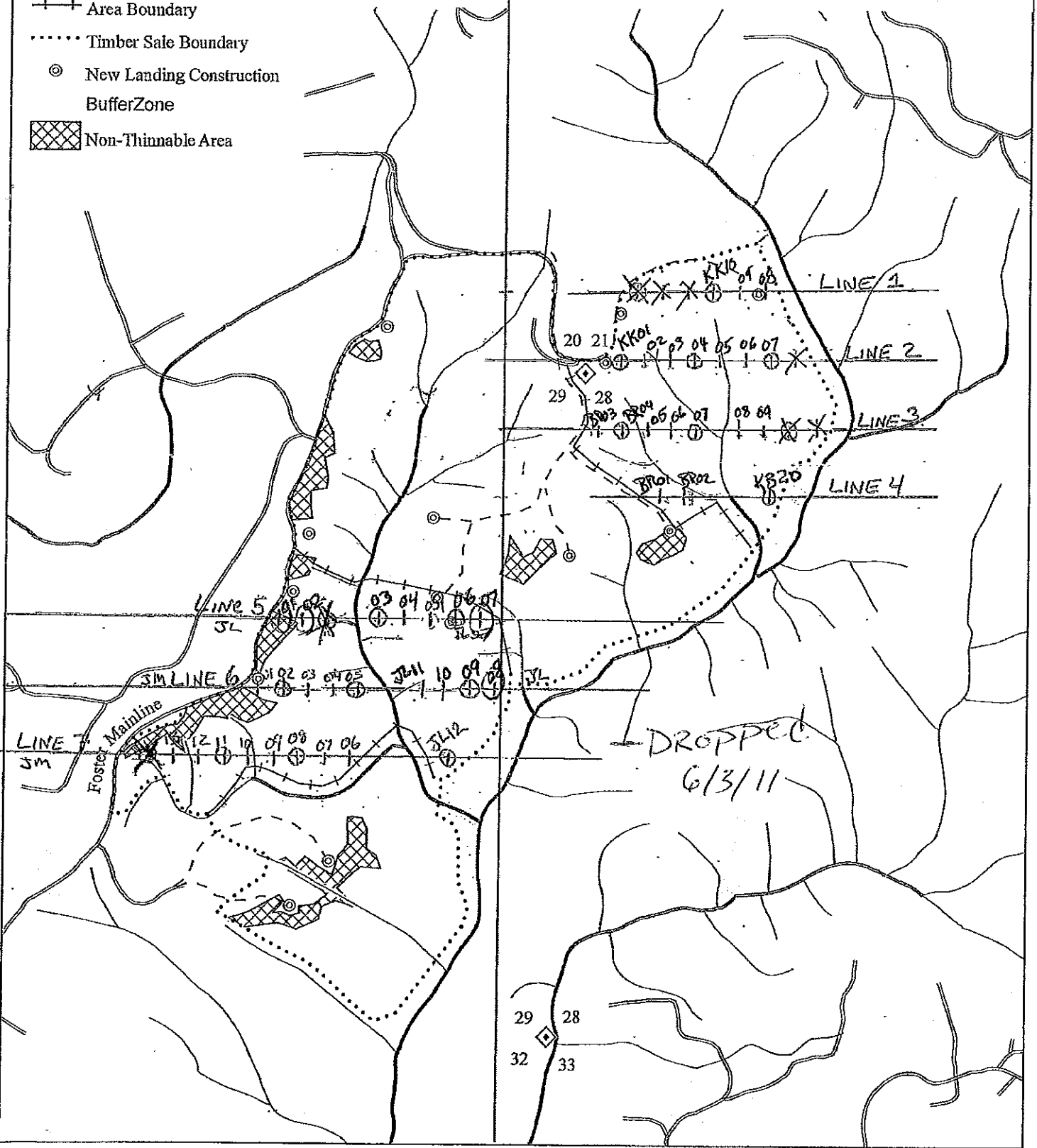
Approximate Scale = 1"=1,000'



Legend

- ◆ Survey Corner
- Existing Surfaced Road
- ~ Type N Stream
- ~ Type F Stream
- - - New Road Construction
- + + Area Boundary
- ..... Timber Sale Boundary
- ⊙ New Landing Construction
- Buffer Zone
- ▣ Non-Thinnable Area

3ch x 8ch  
40BAF



29 28  
32 33

**CRUISE DESIGN  
ASTORIA DISTRICT**

Sale Name: Foster's 40 Areas 2 & 4

Harvest Type: (PC)

Approx. Cruise Acres: 168 Estimated CV% 45 Net BF SE% Objective 9 Net BF

Planned Sale Volume: 2.7 mmbf Estimated Sale Area Value/Acre: \$4,800/Ac  
(16 MBF/Ac.)

A. **Cruise Goals:** (a) Grade minimum 90 conifer:  
(b) Sample 45 cruise plots ( 16 grade/ 29count); (c) Other goals X Determine  
"automark" thinning standards; X Determine log grades for sale value;  
XDetermine snag and leave tree species and sizes.

**B. Cruise Design:**

1. **Plot Cruises:** BAF 40 (Full point; Half point) (circle one)  
Cruise Line Directions Area 2 - 135'  
Area 4 N-S  
Cruise Line Spacing 10 (chains)  
Cruise Plot Spacing 4 (chains)  
Grade/Count Ratio 1:2

The BA target is 150 sqft. Alternate leaving 3 to 4 trees every other plot. All cedar are leave trees. Record all hardwood as camp run. Record all snags as SN and record total height and diameter. If plot lands in buffer then offset at least 1/2 chain outside the buffer.

**C. Tree Measurements:**

1. **Diameter:** Minimum DBH to cruise is 8" for conifers and 10" for hardwoods.  
Record dbh to nearest  $\frac{1}{2}$ " for trees < 16", to nearest 1" for trees 16-24", and to nearest 2" for trees > 24". If tree diameters are estimated (only estimate on variable plot cruises), then record to closest estimate.
2. **Bole Length:** Record bole length to nearest foot at TCD. For trees greater than 100 feet in merchantable height, estimating to the nearest 5 feet is acceptable.
3. **Top Cruise Diameter (TCD):** Minimum top outside bark is 7" for conifers and 7" for hardwoods or 40 % of dob at 16' form point. Generally, use 7" outside bark for trees < 18" dbh and 40% of dob @ FP for trees > 18" dbh.
4. **Form Factors:** (1) Measure or estimate a 16' form factor for every conifer tree measured/graded; OR (2) Measure a minimum of 20 form factors for each major conifer species on the cruise area, and use these to calculate average FF for the species on the cruise. Hardwood form factors are a Standard 87.

5. **Tree Segments:** Record log segments in "standard" log lengths in general use, such as 32' and 40' lengths, whenever possible. Do not record odd segments just to maximize grade. Cull segments can be any length. For conifers, minimum merchantable segment length is 12'; for hardwoods, it's 8'. Maximum segment length is 40'. One foot of trim is assumed for each merch. segment. Do not use "double dash" (--) feature on the data recorder except for the top segment of the tree.
6. **Species, Sort, and Grade Codes:**
- A. **Species:** Record as D (Douglas-fir); H (Western hemlock); S (Sitka Spruce); C (Western red cedar); NF (Noble fir); SF (Silver fir); A (Red alder); M (Bigleaf maple). For "leave trees" in partial cuts, or for marked "wildlife trees," add an "L" to the species code (such as DL, HL, CL, etc.)
- B. **Sort:** Use code "1" (Domestic).
- C. **Grade:** A = 1 Peeler; B = 2 Peeler; C = 3 Peeler; D = Special Mill; 2 = 2 Sawmill; 3 = 3 Sawmill; 4 = 4 Sawmill; 0 = Cull
7. **Deductions:** Estimate visible defect or damage as a "length deduction" (most often), or as a "diameter deduction," as applicable. Estimate hidden defect and breakage (usually some breakage is encountered in trees > 100 feet in height) on a "per tree" basis. Steep and broken topography generally results in higher breakage percentages than gentler topography, and hemlock generally breaks more than D-fir and spruce.
8. **Standard Field Procedures: Plot Type Cruises:** Mark cruise line beginning and end points with blue/yellow flagging. Write plot identification numbers and line direction on the ribbon. At each plot, tie yellow flagging above eye level near plot center and another yellow flagging around a sturdy wooden stake marking plot center. On each yellow flagging, write the plot identification number. Between plots, along the cruise line, tie blue flagging at inter-visible points, not to exceed 100' apart. On "measure/grade" plots write the tree number and/or tree diameter on at least the first measured tree (clockwise from the line direction) in yellow paint. All trees on the plot may be marked this way, if the cruiser chooses.
9. **Cruising Equipment:** Relaskop, Rangefinder, Logger's Tape (with dbh on back) Biltmore Stick, Compass, Cruise Cards in Tatum OR Data Recorder, Cruise Design, Cruise Map, Yellow Flagging, Blue Flagging, Yellow Paint.
10. **Attachments:** A. Cruise Map (showing cruise unit boundaries, roads, streams, approx. acres/unit, cruise lines and plot locations, legal description and section lines, BAF or plot size, measure/count plot ratio, north arrow, and scale.

Cruise Design by: Kevin Berry  
 Approved by: [Signature]  
 Date: 3/9/2011

# AREAS 2 & 4

## Cruise map

### Legend

4ch x 10ch  
40 BAF

- ◆ Survey Corner
- Existing Surfaced Road
- ~ Type N Stream
- ~ Type F Stream
- - - New Road Construction
- + + Area Boundary
- ..... Timber Sale Boundary
- ⊙ New Landing Construction
- Buffer Zone
- ▨ Non-Thinnable Area

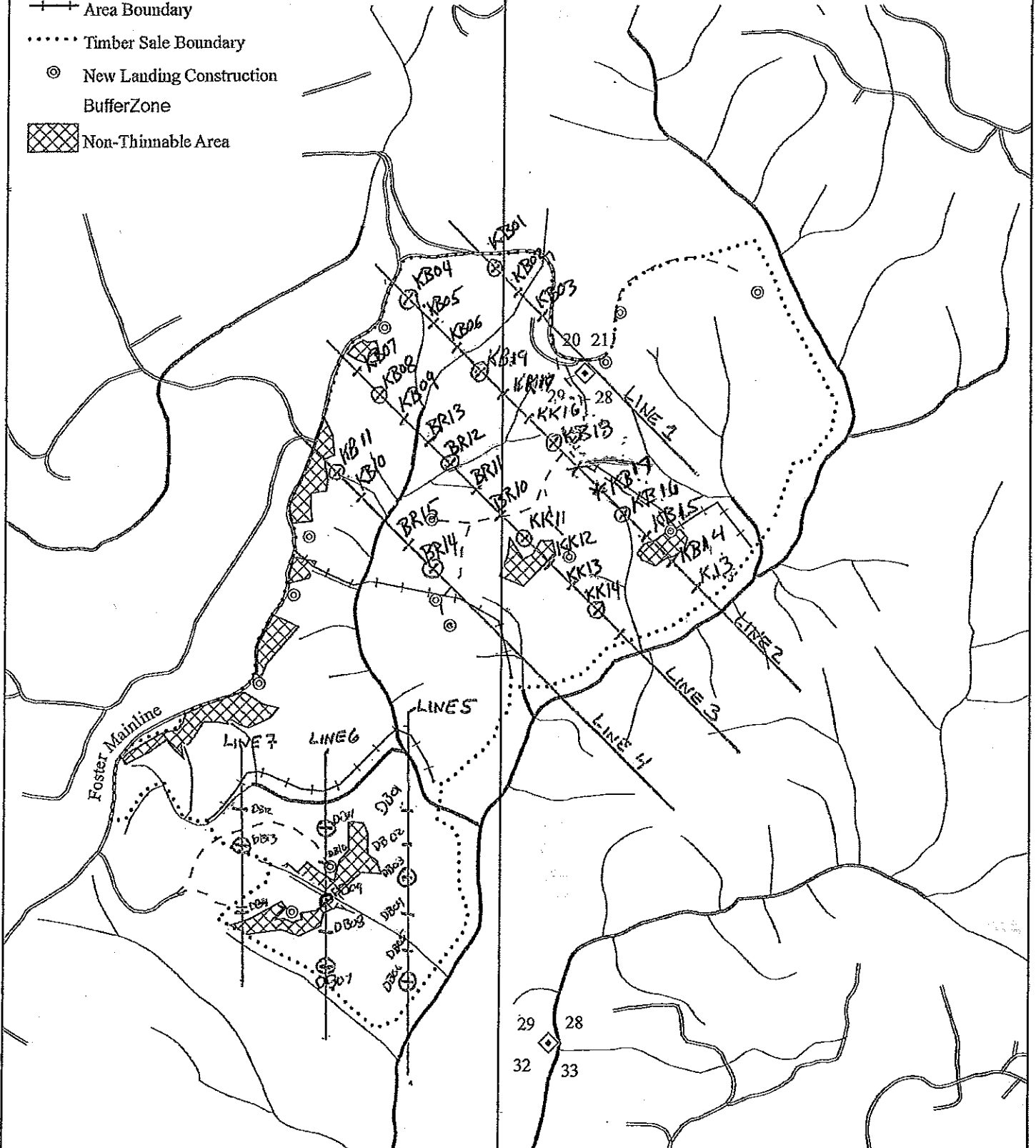
### Approximate Net Acreage:

- Area 1 (MC) - 62 Acres
- Area 2 (PC) - 121 Acres
- Area 3 (MC) - 66 Acres
- Area 4 (PC) - 45 Acres
- Area 5 (R/W) - 0 Acres
- Total PC - 166 Acres
- Total MC - 128 Acres
- Total Acres - 294 Acres



OF TIMBER SALE CONTRACT NO. 341-11-04  
FOSTERS 40  
PORTIONS OF SECTIONS 20, 21, 28, & 29  
T7N, R6W W.M., CLATSOP COUNTY, OREGON

Approximate Scale = 1"=1,000'  
0 250 500 1,000 1,500 2,000  
Feet



TC PSPCSTGR

Species, Sort Grade - Board Foot Volumes (Project)

T07N R06W S28 TyTAKE 96.00  
 T07N R06W S29 TyRW 11.00  
 T07N R06W S29 TyTAKE 177.00

Project: DEMO  
 Acres 284.00

Page 1  
 Date 6/3/2011  
 Time 10:23:41AM

| Spp             | S<br>T | So<br>rt  | Gr<br>ad | %<br>Net<br>BdFt | Bd. Ft. per Acre |               |               | Total<br>Net MBF | Percent of Net Board Foot Volume |            |           |           |            |           |           |            | Average Log |           |            | Logs<br>Per<br>/Acre |              |
|-----------------|--------|-----------|----------|------------------|------------------|---------------|---------------|------------------|----------------------------------|------------|-----------|-----------|------------|-----------|-----------|------------|-------------|-----------|------------|----------------------|--------------|
|                 |        |           |          |                  | Def%             | Gross         | Net           |                  | Log Scale Dia.                   |            |           |           | Log Length |           |           |            | Ln<br>Ft    | Bd<br>Ft  | CF/<br>Lf  |                      |              |
|                 |        |           |          |                  |                  |               |               |                  | 4-5                              | 6-11       | 12-16     | 17+       | 12-20      | 21-30     | 31-35     | 36-99      |             |           |            |                      |              |
| D               | DOCU   |           |          |                  | 100.0            | 899           |               |                  |                                  |            |           |           |            |           |           |            | 17          |           | 0.00       | 7.6                  |              |
| D               | DO2S   | 75        |          |                  | 2.2              | 11,697        | 11,440        | 3,249            |                                  | 2          | 41        | 57        |            | 0         | 4         | 10         | 86          | 38        | 400        | 2.34                 | 28.6         |
| D               | DO3S   | 23        |          |                  | 2.4              | 3,553         | 3,467         | 985              | 0                                | 93         | 6         | 0         |            | 2         | 11        | 21         | 65          | 34        | 90         | 0.81                 | 38.4         |
| D               | DO4S   | 2         |          |                  |                  | 282           | 282           | 80               | 8                                | 92         |           |           |            | 62        | 38        |            |             | 19        | 30         | 0.51                 | 9.3          |
| <b>D Totals</b> |        | <b>70</b> |          |                  | <b>7.6</b>       | <b>16,432</b> | <b>15,189</b> | <b>4,314</b>     | <b>0</b>                         | <b>24</b>  | <b>33</b> | <b>43</b> |            | <b>2</b>  | <b>6</b>  | <b>12</b>  | <b>79</b>   | <b>32</b> | <b>181</b> | <b>1.37</b>          | <b>83.8</b>  |
| H               | 3S     |           |          |                  |                  |               |               |                  |                                  |            |           |           |            |           |           |            |             |           |            | 0.00                 | 1.1          |
| H               | DOCU   |           |          |                  | 100.0            | 254           |               |                  |                                  |            |           |           |            |           |           |            |             | 10        |            | 0.00                 | 1.5          |
| H               | DO2S   | 42        |          |                  | .2               | 1,733         | 1,729         | 491              |                                  |            | 71        | 29        |            |           |           | 53         | 47          | 35        | 345        | 2.13                 | 5.0          |
| H               | DO3S   | 53        |          |                  | 2.2              | 2,236         | 2,186         | 621              |                                  | 96         | 4         |           |            |           | 9         | 56         | 35          | 33        | 82         | 0.74                 | 26.8         |
| H               | DO4S   | 5         |          |                  |                  | 179           | 179           | 51               |                                  | 100        |           |           |            | 91        | 9         |            |             | 20        | 25         | 0.42                 | 7.3          |
| <b>H Totals</b> |        | <b>19</b> |          |                  | <b>7.0</b>       | <b>4,402</b>  | <b>4,095</b>  | <b>1,163</b>     |                                  | <b>56</b>  | <b>32</b> | <b>12</b> |            | <b>4</b>  | <b>5</b>  | <b>52</b>  | <b>38</b>   | <b>29</b> | <b>98</b>  | <b>0.90</b>          | <b>41.7</b>  |
| A               | DOCU   |           |          |                  | 100.0            | 145           |               |                  |                                  |            |           |           |            |           |           |            |             | 4         |            | 0.00                 | 3.7          |
| A               | DOCR   | 100       |          |                  | 3.7              | 2,417         | 2,329         | 661              | 2                                | 83         | 15        |           |            | 11        | 34        | 30         | 25          | 28        | 57         | 0.69                 | 40.7         |
| <b>A Totals</b> |        | <b>11</b> |          |                  | <b>9.1</b>       | <b>2,562</b>  | <b>2,329</b>  | <b>661</b>       | <b>2</b>                         | <b>83</b>  | <b>15</b> |           |            | <b>11</b> | <b>34</b> | <b>30</b>  | <b>25</b>   | <b>26</b> | <b>52</b>  | <b>0.68</b>          | <b>44.4</b>  |
| M               | DOCU   |           |          |                  | 100.0            | 4             |               |                  |                                  |            |           |           |            |           |           |            |             | 8         |            | 0.00                 | .4           |
| M               | DOCR   | 100       |          |                  | 8.3              | 45            | 41            | 12               |                                  | 100        |           |           |            |           |           | 100        |             | 40        | 110        | 1.07                 | .4           |
| <b>M Totals</b> |        | <b>0</b>  |          |                  | <b>15.4</b>      | <b>49</b>     | <b>41</b>     | <b>12</b>        |                                  | <b>100</b> |           |           |            |           |           | <b>100</b> |             | <b>24</b> | <b>55</b>  | <b>0.90</b>          | <b>.7</b>    |
| <b>Totals</b>   |        |           |          |                  | <b>7.6</b>       | <b>23,444</b> | <b>21,654</b> | <b>6,150</b>     | <b>0</b>                         | <b>37</b>  | <b>30</b> | <b>32</b> |            | <b>3</b>  | <b>9</b>  | <b>22</b>  | <b>66</b>   | <b>30</b> | <b>127</b> | <b>1.10</b>          | <b>170.7</b> |

T07N R06W S29 TTAKE T07N R06W S29 TTAKE  
 Twp Rge Sec Tract Type Acres Plots Sample Trees CuFt BdFt  
 07N 06W 29 AREA24 TAKE 177.00 1 W

| S<br>Spp           | So<br>T       | Gr<br>rt | ad | %<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<br>Ft    | Bd<br>Ft | CF/<br>Lf |                      |
|                    |               |          |    |                  |                  |        |        |                  | 4-5                           | 6-11 | 12-16 | 17+ | 12-20      | 21-30 | 31-35 | 36-99 |             |          |           |                      |
| D                  |               | DO       | CU |                  | 00.0             | 416    |        |                  |                               |      |       |     |            |       |       | 17    |             | 0.00     | 7.1       |                      |
| D                  |               | DO       | 2S | 61               | 3.8              | 6,099  | 5,866  | 1,038            |                               | 3    | 50    | 47  |            | 7     | 3     | 90    | 39          | 355      | 2.16      | 16.5                 |
| D                  |               | DO       | 3S | 37               | 2.6              | 3,700  | 3,605  | 638              |                               | 100  |       |     | 1          | 10    | 18    | 72    | 35          | 86       | 0.76      | 41.8                 |
| D                  |               | DO       | 4S | 2                |                  | 140    | 140    | 25               | 25                            | 75   |       |     | 45         | 55    |       |       | 20          | 29       | 0.49      | 4.9                  |
| <b>D</b>           | <b>Totals</b> |          |    | 64               | 7.2              | 10,355 | 9,611  | 1,701            | 0                             | 40   | 31    | 29  | 1          | 9     | 9     | 82    | 33          | 137      | 1.10      | 70.3                 |
| H                  |               |          | 3S |                  |                  |        |        |                  |                               |      |       |     |            |       |       |       |             |          | 0.00      | 1.6                  |
| H                  |               | DO       | CU |                  | 00.0             | 292    |        |                  |                               |      |       |     |            |       |       |       | 10          |          | 0.00      | 2.1                  |
| H                  |               | DO       | 2S | 41               |                  | 1,630  | 1,630  | 288              |                               |      | 77    | 23  |            |       | 77    | 23    | 34          | 337      | 2.15      | 4.8                  |
| H                  |               | DO       | 3S | 54               | 3.0              | 2,147  | 2,084  | 369              |                               | 100  |       |     |            | 13    | 76    | 10    | 31          | 73       | 0.71      | 28.6                 |
| H                  |               | DO       | 4S | 5                |                  | 171    | 171    | 30               |                               | 100  |       |     | 100        |       |       |       | 19          | 23       | 0.41      | 7.4                  |
| <b>H</b>           | <b>Totals</b> |          |    | 26               | 8.4              | 4,240  | 3,884  | 687              | 58                            | 32   | 10    |     | 4          | 7     | 73    | 15    | 27          | 87       | 0.86      | 44.5                 |
| A                  |               | DO       | CR | 100              | 1.6              | 1,417  | 1,394  | 247              |                               | 75   | 25    |     | 5          | 41    | 35    | 19    | 30          | 65       | 0.69      | 21.5                 |
| <b>A</b>           | <b>Totals</b> |          |    | 9                | 1.6              | 1,417  | 1,394  | 247              | 75                            | 25   |       |     | 5          | 41    | 35    | 19    | 30          | 65       | 0.69      | 21.5                 |
| M                  |               | DO       | CU |                  | 00.0             | 6      |        |                  |                               |      |       |     |            |       |       |       | 8           |          | 0.00      | .6                   |
| M                  |               | DO       | CR | 100              | 8.3              | 68     | 62     | 11               |                               | 100  |       |     |            |       | 100   |       | 40          | 110      | 1.07      | .6                   |
| <b>M</b>           | <b>Totals</b> |          |    | 0                | 15.4             | 73     | 62     | 11               | 100                           |      |       |     |            |       | 100   |       | 24          | 55       | 0.90      | 1.1                  |
| <b>Type Totals</b> |               |          |    |                  | 7.1              | 16,085 | 14,951 | 2,646            | 0                             | 49   | 30    | 21  | 2          | 11    | 28    | 59    | 31          | 109      | 0.97      | 137.5                |



|                     |   |
|---------------------|---|
| T07N R06W S28 TTAKE | T07N R06W S28 TTAKE                     |
| Twp Rge Sec Tract   | Type Acres Plots Sample Trees CuFt BdFt |
| 07N 06W 28 AREA13   | TAKE 96.00 I W                          |

| Spp                | S<br>T | So<br>rt | Gr<br>ad | %<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<br>Ft    | Bd<br>Ft | CF/<br>Lf |                      |       |       |
|                    |        |          |          |                  |                  |        |        |                  | 4-5                           | 6-11 | 12-16 | 17+ | 12-20      | 21-30 | 31-35 | 36-99 |             |          |           |                      |       |       |
| D                  |        | DO       | CU       |                  | 00.0             | 1,749  |        |                  |                               |      |       |     |            |       |       |       | 18          |          | 0.00      | 8.2                  |       |       |
| D                  |        | DO       | 2S       | 85               | 1.3              | 20,481 | 20,219 | 1,941            |                               | 1    | 37    | 62  |            | 0     | 3     | 13    | 84          | 38       | 432       | 2.46                 | 46.8  |       |
| D                  |        | DO       | 3S       | 12               | 2.2              | 2,987  | 2,921  | 280              |                               | 82   | 18    |     |            | 6     | 12    | 27    | 54          | 34       | 103       | 0.95                 | 28.5  |       |
| D                  |        | DO       | 4S       | 3                |                  | 550    | 550    | 53               |                               | 100  |       |     |            | 70    | 30    |       |             | 18       | 31        | 0.53                 | 17.6  |       |
| <b>D Totals</b>    |        |          |          | 74               | 8.1              | 25,767 | 23,690 | 2,274            |                               | 13   | 34    | 53  |            | 3     | 5     | 14    | 78          | 32       | 234       | 1.71                 | 101.1 |       |
| A                  |        | DO       | CU       |                  | 00.0             | 429    |        |                  |                               |      |       |     |            |       |       |       |             | 4        |           | 0.00                 | 11.0  |       |
| A                  |        | DO       | CR       | 100              | 5.1              | 4,248  | 4,032  | 387              | 4                             | 88   | 7     |     |            | 15    | 30    | 28    | 27          | 27       | 53        | 0.68                 | 76.4  |       |
| <b>A Totals</b>    |        |          |          | 13               | 13.8             | 4,677  | 4,032  | 387              | 4                             | 88   | 7     |     |            | 15    | 30    | 28    | 27          | 24       | 46        | 0.66                 | 87.4  |       |
| H                  |        | DO       | CU       |                  | 00.0             | 156    |        |                  |                               |      |       |     |            |       |       |       |             | 8        |           | 0.00                 | .4    |       |
| H                  |        | DO       | 2S       | 39               | .5               | 1,680  | 1,671  | 160              |                               |      | 63    | 37  |            |       |       | 11    | 89          | 39       | 361       | 2.08                 | 4.6   |       |
| H                  |        | DO       | 3S       | 56               | .8               | 2,337  | 2,317  | 222              |                               | 90   | 10    |     |            |       | 1     | 22    | 77          | 37       | 105       | 0.80                 | 22.1  |       |
| H                  |        | DO       | 4S       | 5                |                  | 194    | 194    | 19               |                               | 100  |       |     |            | 75    | 25    |       |             | 20       | 28        | 0.44                 | 7.0   |       |
| <b>H Totals</b>    |        |          |          | 13               | 4.2              | 4,367  | 4,183  | 402              |                               | 54   | 31    | 15  |            | 4     | 2     | 16    | 78          | 33       | 123       | 0.96                 | 34.1  |       |
| <b>Type Totals</b> |        |          |          |                  | 8.3              | 34,811 | 31,904 | 3,063            |                               | 1    | 28    | 30  | 41         |       | 4     | 8     | 16          | 72       | 29        | 143                  | 1.23  | 222.6 |

T07N R06W S29 TRW T07N R06W S29 TRW  
 Twp Rge Sec Tract Type Acres Plots Sample Trees CuFt BdFt  
 07N 06W 29 AREA24 RW 11.00 1 W

| Spp                | Sort          | Grade | % Net BdFt | Bd. Ft. per Acre |               | Total Net MBF | Percent Net Board Foot Volume |            |           |           |            |          |           |            | Average Log |            |             | Logs Per /Acre |              |
|--------------------|---------------|-------|------------|------------------|---------------|---------------|-------------------------------|------------|-----------|-----------|------------|----------|-----------|------------|-------------|------------|-------------|----------------|--------------|
|                    |               |       |            | Def%             | Gross Net     |               | Log Scale Dia.                |            |           |           | Log Length |          |           |            | Ln Ft       | Bd Ft      | CF/Lf       |                |              |
|                    |               |       |            |                  |               |               | 4-5                           | 6-11       | 12-16     | 17+       | 12-20      | 21-30    | 31-35     | 36-99      |             |            |             |                |              |
| D                  | DO            | CU    |            | 00.0             | 1,263         |               |                               |            |           |           |            |          |           |            | 15          |            | 0.00        | 9.7            |              |
| D                  | DO            | 2S    | 79         | 2.2              | 25,095        | 24,531        | 270                           |            | 3         | 42        | 56         | 1        | 2         | 13         | 84          | 38         | 391         | 2.30           | 62.7         |
| D                  | DO            | 3S    | 20         | 2.3              | 6,142         | 5,998         | 66                            | 0          | 80        | 13        | 7          | 5        | 21        | 26         | 48          | 32         | 86          | 0.83           | 70.1         |
| D                  | DO            | 4S    | 1          |                  | 238           | 238           | 3                             | 11         | 89        |           |            | 53       | 47        |            | 21          | 33         | 0.57        | 7.2            |              |
| <b>D</b>           | <b>Totals</b> |       | <b>77</b>  | <b>6.0</b>       | <b>32,739</b> | <b>30,767</b> | <b>338</b>                    | <b>0</b>   | <b>18</b> | <b>36</b> | <b>46</b>  | <b>2</b> | <b>6</b>  | <b>16</b>  | <b>76</b>   | <b>33</b>  | <b>205</b>  | <b>1.51</b>    | <b>149.8</b> |
| H                  |               | 3S    |            |                  |               |               |                               |            |           |           |            |          |           |            |             |            |             | 0.00           | 1.8          |
| H                  | DO            | CU    |            | 00.0             | 493           |               |                               |            |           |           |            |          |           |            | 9           |            | 0.00        | 3.1            |              |
| H                  | DO            | 2S    | 57         | .5               | 3,857         | 3,837         | 42                            |            | 59        | 41        |            |          | 46        | 54         | 35          | 350        | 2.17        | 11.0           |              |
| H                  | DO            | 3S    | 40         | 3.1              | 2,777         | 2,690         | 30                            | 100        |           |           |            | 16       | 67        | 17         | 31          | 71         | 0.75        | 37.8           |              |
| H                  | DO            | 4S    | 3          |                  | 192           | 192           | 2                             | 100        |           |           | 100        |          |           |            | 19          | 23         | 0.41        | 8.4            |              |
| <b>H</b>           | <b>Totals</b> |       | <b>17</b>  | <b>8.2</b>       | <b>7,320</b>  | <b>6,720</b>  | <b>74</b>                     | <b>43</b>  | <b>33</b> | <b>24</b> | <b>3</b>   | <b>6</b> | <b>53</b> | <b>38</b>  | <b>28</b>   | <b>108</b> | <b>1.02</b> | <b>62.0</b>    |              |
| A                  | DO            | CR    | 100        | 1.6              | 2,533         | 2,493         | 27                            | 73         | 27        |           |            | 6        | 28        | 20         | 46          | 30         | 66          | 0.75           | 37.5         |
| <b>A</b>           | <b>Totals</b> |       | <b>6</b>   | <b>1.6</b>       | <b>2,533</b>  | <b>2,493</b>  | <b>27</b>                     | <b>73</b>  | <b>27</b> |           |            | <b>6</b> | <b>28</b> | <b>20</b>  | <b>46</b>   | <b>30</b>  | <b>66</b>   | <b>0.75</b>    | <b>37.5</b>  |
| M                  | DO            | CU    |            | 00.0             | 6             |               |                               |            |           |           |            |          |           |            | 8           |            | 0.00        | .6             |              |
| M                  | DO            | CR    | 100        | 8.3              | 68            | 62            | 1                             | 100        |           |           |            |          |           | 100        | 40          | 110        | 1.07        | .6             |              |
| <b>M</b>           | <b>Totals</b> |       | <b>0</b>   | <b>15.4</b>      | <b>73</b>     | <b>62</b>     | <b>1</b>                      | <b>100</b> |           |           |            |          |           | <b>100</b> | <b>24</b>   | <b>55</b>  | <b>0.90</b> | <b>1.1</b>     |              |
| <b>Type Totals</b> |               |       |            | <b>6.1</b>       | <b>42,665</b> | <b>40,042</b> | <b>440</b>                    | <b>0</b>   | <b>26</b> | <b>35</b> | <b>39</b>  | <b>2</b> | <b>8</b>  | <b>22</b>  | <b>68</b>   | <b>31</b>  | <b>160</b>  | <b>1.29</b>    | <b>250.4</b> |

| TC PSTATS  |              | PROJECT STATISTICS |                   |                |                       |                      |             | PAGE 1    |             |           |
|--|--------------|--------------------|-------------------|----------------|-----------------------|----------------------|-------------|-----------|-------------|-----------|
|  |              | PROJECT DEMO       |                   |                |                       | DATE 6/3/2011        |             |           |             |           |
| TWP  | RGE          | SC                 | TRACT             | TYPE           | ACRES                 | PLOTS                | TREES       | CUFT      | BDFt        |           |
| 07N  | 06           | 28                 | AREA13            | TAKE           | 284.00                | 130                  | 643         | 1         | W           |           |
| 07N  | 06W          | 29                 | AREA24            | RW             |                       |                      |             |           |             |           |
| 07N  | 06W          | 29                 | AREA24            | TAKE           |                       |                      |             |           |             |           |
|  |              | PLOTS              | TREES             | TREES PER PLOT | ESTIMATED TOTAL TREES | PERCENT SAMPLE TREES |             |           |             |           |
| TOTAL  |              | 130                | 643               | 4.9            |                       |                      |             |           |             |           |
| CRUISE   |              | 45                 | 204               | 4.5            | 25,672                | .8                   |             |           |             |           |
| DBH COUNT  |              |                    |                   |                |                       |                      |             |           |             |           |
| REFOREST   |              |                    |                   |                |                       |                      |             |           |             |           |
| COUNT  |              | 78                 | 439               | 5.6            |                       |                      |             |           |             |           |
| BLANKS   |              | 7                  |                   |                |                       |                      |             |           |             |           |
| 100 %  |              |                    |                   |                |                       |                      |             |           |             |           |
| STAND SUMMARY  |              |                    |                   |                |                       |                      |             |           |             |           |
|  | SAMPLE TREES | TREES /ACRE        | AVG DBH           | BOLE LEN       | REL DEN               | BASAL AREA           | GROSS BF/AC | NET BF/AC | GROSS CF/AC | NET CF/AC |
| DOUG FIR   | 130          | 36.8               | 21.5              | 77             |                       | 92.7                 | 16,432      | 15,189    | 3,940       | 3,723     |
| WHEMLOCK   | 39           | 21.3               | 16.3              | 59             |                       | 30.8                 | 4,402       | 4,095     | 1,137       | 1,091     |
| R ALDER  | 31           | 31.7               | 13.7              | 38             |                       | 32.4                 | 2,562       | 2,329     | 813         | 787       |
| S SPRUCE   | 2            | .3                 | 20.0              | 40             |                       | .6                   |             |           |             |           |
| BL MAPLE   | 2            | .4                 | 17.0              | 50             |                       | .6                   | 49          | 41        | 18          | 16        |
| TOTAL  | 204          | 90.4               | 17.8              | 59             |                       | 157.1                | 23,444      | 21,654    | 5,908       | 5,616     |
| CONFIDENCE LIMITS OF THE SAMPLE                                  |              |                    |                   |                |                       |                      |             |           |             |           |
| 68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR |              |                    |                   |                |                       |                      |             |           |             |           |
| CL   | 68.1         | COEFF              | SAMPLE TREES - BF |                |                       | # OF TREES REQ.      |             | INF. POP. |             |           |
| SD:  | 1.0          | VAR.%              | S.E.%             | LOW            | AVG                   | HIGH                 | 5           | 10        | 15          |           |
| DOUG FIR   |              | 81.5               | 7.1               | 714            | 769                   | 824                  |             |           |             |           |
| WHEMLOCK   |              | 88.8               | 14.2              | 299            | 349                   | 398                  |             |           |             |           |
| R ALDER  |              | 71.6               | 12.8              | 82             | 94                    | 106                  |             |           |             |           |
| S SPRUCE   |              |                    |                   |                |                       |                      |             |           |             |           |
| BL MAPLE   |              |                    |                   | 110            | 110                   | 110                  |             |           |             |           |
| TOTAL  |              | 102.4              | 7.2               | 531            | 572                   | 613                  | 419         | 105       | 47          |           |
| CL   | 68.1         | COEFF              | TREES/ACRE        |                |                       | # OF PLOTS REQ.      |             | INF. POP. |             |           |
| SD:  | 1.0          | VAR.%              | S.E.%             | LOW            | AVG                   | HIGH                 | 5           | 10        | 15          |           |
| DOUG FIR   |              | 138.7              | 12.2              | 32             | 37                    | 41                   |             |           |             |           |
| WHEMLOCK   |              | 243.5              | 21.3              | 17             | 21                    | 26                   |             |           |             |           |
| R ALDER  |              | 203.9              | 17.9              | 26             | 32                    | 37                   |             |           |             |           |
| S SPRUCE   |              | 1075.0             | 94.2              | 0              | 0                     | 1                    |             |           |             |           |
| BL MAPLE   |              | 1075.0             | 94.2              | 0              | 0                     | 1                    |             |           |             |           |
| TOTAL  |              | 107.3              | 9.4               | 82             | 90                    | 99                   | 460         | 115       | 51          |           |
| CL   | 68.1         | COEFF              | BASAL AREA/ACRE   |                |                       | # OF PLOTS REQ.      |             | INF. POP. |             |           |
| SD:  | 1.0          | VAR.%              | S.E.%             | LOW            | AVG                   | HIGH                 | 5           | 10        | 15          |           |
| DOUG FIR   |              | 122.7              | 10.8              | 83             | 93                    | 103                  |             |           |             |           |
| WHEMLOCK   |              | 228.2              | 20.0              | 25             | 31                    | 37                   |             |           |             |           |
| R ALDER  |              | 197.0              | 17.3              | 27             | 32                    | 38                   |             |           |             |           |
| S SPRUCE   |              | 1075.0             | 94.2              | 0              | 1                     | 1                    |             |           |             |           |
| BL MAPLE   |              | 1075.0             | 94.2              | 0              | 1                     | 1                    |             |           |             |           |
| TOTAL  |              | 96.9               | 8.5               | 144            | 157                   | 170                  | 375         | 94        | 42          |           |
| CL   | 68.1         | COEFF              | NET BF/ACRE       |                |                       | # OF PLOTS REQ.      |             | INF. POP. |             |           |
| SD:  | 1.0          | VAR.%              | S.E.%             | LOW            | AVG                   | HIGH                 | 5           | 10        | 15          |           |
| DOUG FIR   |              | 123.2              | 10.8              | 13,549         | 15,189                | 16,829               |             |           |             |           |
| WHEMLOCK   |              | 226.0              | 19.8              | 3,284          | 4,095                 | 4,906                |             |           |             |           |
| R ALDER  |              | 199.7              | 17.5              | 1,921          | 2,329                 | 2,736                |             |           |             |           |
| S SPRUCE   |              |                    |                   |                |                       |                      |             |           |             |           |
| BL MAPLE   |              | 1075.0             | 94.2              | 2              | 41                    | 80                   |             |           |             |           |
| TOTAL  |              | 102.1              | 9.0               | 19,715         | 21,654                | 23,592               | 417         | 104       | 46          |           |

| TC ESTATS  |                 | PROJECT STATISTICS |                   |                   |                             |                            |                | PAGE 1       |                |              |
|--|-----------------|--------------------|-------------------|-------------------|-----------------------------|----------------------------|----------------|--------------|----------------|--------------|
|  |                 | PROJECT            |                   | DEMO              |                             | DATE 5/4/2011              |                |              |                |              |
| TWP  | RGE             | SC                 | TRACT             | TYPE              | ACRES                       | PLOTS                      | TREES          | CaFt         | BdFt           |              |
| 07N  | 06              | 29                 | AREA24            | LEAV              | 177.00                      | 45                         | 164            | 1            | W              |              |
|  |                 | PLOTS              | TREES             | TREES<br>PER PLOT | ESTIMATED<br>TOTAL<br>TREES | PERCENT<br>SAMPLE<br>TREES |                |              |                |              |
| TOTAL  |                 | 45                 | 164               | 3.6               |                             |                            |                |              |                |              |
| CRUISE   |                 | 20                 | 63                | 3.2               | 9,496                       | .7                         |                |              |                |              |
| DBH COUNT<br>REFOREST<br>COUNT                                   |                 | 25                 | 91                | 3.6               |                             |                            |                |              |                |              |
| BLANKS<br>100 %  |                 |                    |                   |                   |                             |                            |                |              |                |              |
| STAND SUMMARY  |                 |                    |                   |                   |                             |                            |                |              |                |              |
|  | SAMPLE<br>TREES | TREES<br>/ACRE     | AVG<br>DBH        | BOLE<br>LEN       | REL<br>DEN                  | BASAL<br>AREA              | GROSS<br>BF/AC | NET<br>BF/AC | GROSS<br>CF/AC | NET<br>CF/AC |
| DOUGLEAV   | 46              | 28.7               | 25.4              | 97                |                             | 101.3                      | 21,431         | 20,219       | 4,841          | 4,688        |
| HEMLEAV  | 4               | 6.9                | 22.8              | 70                |                             | 19.6                       | 3,186          | 2,936        | 786            | 755          |
| ALDRLEAV   | 4               | 11.9               | 14.8              | 41                |                             | 14.2                       | 1,116          | 1,098        | 392            | 392          |
| SNAG   | 9               | 6.1                | 17.2              | 51                |                             | 9.8                        | 128            | 128          | 28             | 28           |
| TOTAL  | 63              | 53.6               | 22.3              | 76                |                             | 144.9                      | 25,860         | 24,381       | 6,047          | 5,864        |
| CONFIDENCE LIMITS OF THE SAMPLE                                  |                 |                    |                   |                   |                             |                            |                |              |                |              |
| 68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR |                 |                    |                   |                   |                             |                            |                |              |                |              |
| CL   | 68.1            | COEFF              | SAMPLE TREES - BF |                   |                             | # OF TREES REQ.            |                | INF. POP.    |                |              |
| SD:  | 1.0             | VAR.%              | S.E.%             | LOW               | AVG                         | HIGH                       | 5              | 10           | 15             |              |
| DOUGLEAV   |                 | 54.5               | 8.0               | 797               | 866                         | 936                        |                |              |                |              |
| HEMLEAV  |                 | 67.2               | 38.4              | 353               | 573                         | 792                        |                |              |                |              |
| ALDRLEAV   |                 | 73.3               | 41.9              | 68                | 118                         | 167                        |                |              |                |              |
| SNAG   |                 | 300.0              | 105.9             |                   | 41                          | 85                         |                |              |                |              |
| TOTAL  |                 | 77.2               | 9.7               | 616               | 682                         | 749                        | 238            | 60           | 26             |              |
| CL   | 68.1            | COEFF              | TREES/ACRE        |                   |                             | # OF PLOTS REQ.            |                | INF. POP.    |                |              |
| SD:  | 1.0             | VAR.%              | S.E.%             | LOW               | AVG                         | HIGH                       | 5              | 10           | 15             |              |
| DOUGLEAV   |                 | 56.9               | 8.5               | 26                | 29                          | 31                         |                |              |                |              |
| HEMLEAV  |                 | 174.5              | 26.0              | 5                 | 7                           | 9                          |                |              |                |              |
| ALDRLEAV   |                 | 282.2              | 42.0              | 7                 | 12                          | 17                         |                |              |                |              |
| SNAG   |                 | 243.5              | 36.3              | 4                 | 6                           | 8                          |                |              |                |              |
| TOTAL  |                 | 47.9               | 7.1               | 50                | 54                          | 57                         | 92             | 23           | 10             |              |
| CL   | 68.1            | COEFF              | BASAL AREA/ACRE   |                   |                             | # OF PLOTS REQ.            |                | INF. POP.    |                |              |
| SD:  | 1.0             | VAR.%              | S.E.%             | LOW               | AVG                         | HIGH                       | 5              | 10           | 15             |              |
| DOUGLEAV   |                 | 48.1               | 7.2               | 94                | 101                         | 109                        |                |              |                |              |
| HEMLEAV  |                 | 172.4              | 25.7              | 15                | 20                          | 25                         |                |              |                |              |
| ALDRLEAV   |                 | 282.2              | 42.0              | 8                 | 14                          | 20                         |                |              |                |              |
| SNAG   |                 | 216.4              | 32.2              | 7                 | 10                          | 13                         |                |              |                |              |
| TOTAL  |                 | 14.8               | 2.2               | 142               | 145                         | 148                        | 9              | 2            | 1              |              |
| CL   | 68.1            | COEFF              | NET BF/ACRE       |                   |                             | # OF PLOTS REQ.            |                | INF. POP.    |                |              |
| SD:  | 1.0             | VAR.%              | S.E.%             | LOW               | AVG                         | HIGH                       | 5              | 10           | 15             |              |
| DOUGLEAV   |                 | 47.5               | 7.1               | 18,787            | 20,219                      | 21,651                     |                |              |                |              |
| HEMLEAV  |                 | 172.8              | 25.7              | 2,181             | 2,936                       | 3,692                      |                |              |                |              |
| ALDRLEAV   |                 | 282.2              | 42.0              | 636               | 1,098                       | 1,560                      |                |              |                |              |
| SNAG   |                 | 552.7              | 82.3              | 23                | 128                         | 233                        |                |              |                |              |
| TOTAL  |                 | 25.6               | 3.8               | 23,451            | 24,381                      | 25,311                     | 26             | 7            | 3              |              |

| TC PSTATS  |                 | PROJECT STATISTICS |                   |                   |                             |                            |                | PAGE         | 1              |              |
|--|-----------------|--------------------|-------------------|-------------------|-----------------------------|----------------------------|----------------|--------------|----------------|--------------|
|  |                 | PROJECT DEMO       |                   |                   |                             |                            |                | DATE         | 5/4/2011       |              |
| TWP  | RGE             | SC                 | TRACT             | TYPE              | ACRES                       | PLOTS                      | TREES          | CuFt         | BdFt           |              |
| 07N  | 06              | 29                 | AREA24            | TAKE              | 177.00                      | 45                         | 133            | 1            | W              |              |
|  |                 | PLOTS              | TREES             | TREES<br>PER PLOT | ESTIMATED<br>TOTAL<br>TREES | PERCENT<br>SAMPLE<br>TREES |                |              |                |              |
| TOTAL  |                 | 45                 | 133               | 3.0               |                             |                            |                |              |                |              |
| CRUISE   |                 | 14                 | 36                | 2.6               | 13,131                      | .3                         |                |              |                |              |
| DBH COUNT  |                 |                    |                   |                   |                             |                            |                |              |                |              |
| REFOREST   |                 |                    |                   |                   |                             |                            |                |              |                |              |
| COUNT  |                 | 24                 | 97                | 4.0               |                             |                            |                |              |                |              |
| BLANKS   |                 | 7                  |                   |                   |                             |                            |                |              |                |              |
| 100 %  |                 |                    |                   |                   |                             |                            |                |              |                |              |
| STAND SUMMARY  |                 |                    |                   |                   |                             |                            |                |              |                |              |
|  | SAMPLE<br>TREES | TREES<br>/ACRE     | AVG<br>DBH        | BOLE<br>LEN       | REL<br>DEN                  | BASAL<br>AREA              | GROSS<br>BF/AC | NET<br>BF/AC | GROSS<br>CF/AC | NET<br>CF/AC |
| DOUG FIR   | 20              | 33.5               | 19.2              | 72                |                             | 67.6                       | 10,355         | 9,611        | 2,672          | 2,556        |
| WHEMLOCK   | 9               | 22.1               | 16.1              | 58                |                             | 31.1                       | 4,240          | 3,884        | 1,102          | 1,049        |
| R ALDER  | 5               | 17.7               | 13.6              | 38                |                             | 17.8                       | 1,417          | 1,394        | 442            | 442          |
| S SPRUCE   | 1               | .4                 | 20.0              | 40                |                             | .9                         |                |              |                |              |
| BL MAPLE   | 1               | .6                 | 17.0              | 50                |                             | .9                         | 73             | 62           | 27             | 24           |
| TOTAL  | 36              | 74.2               | 17.1              | 59                |                             | 118.2                      | 16,085         | 14,951       | 4,243          | 4,072        |
| CONFIDENCE LIMITS OF THE SAMPLE                                  |                 |                    |                   |                   |                             |                            |                |              |                |              |
| 68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR |                 |                    |                   |                   |                             |                            |                |              |                |              |
| CL   | 68.1            | COEFF              | SAMPLE TREES - BF |                   |                             | # OF TREES REQ.            |                | INF. POP.    |                |              |
| SD:  | 1.0             | VAR.%              | S.E.%             | LOW               | AVG                         | HIGH                       | 5              | 10           | 15             |              |
| DOUG FIR   |                 | 139.8              | 32.1              | 391               | 575                         | 759                        |                |              |                |              |
| WHEMLOCK   |                 | 80.0               | 28.2              | 193               | 269                         | 345                        |                |              |                |              |
| R ALDER  |                 | 84.6               | 42.0              | 64                | 110                         | 156                        |                |              |                |              |
| S SPRUCE   |                 |                    |                   |                   |                             |                            |                |              |                |              |
| BL MAPLE   |                 |                    |                   |                   |                             |                            |                |              |                |              |
| TOTAL  |                 | 156.8              | 26.1              | 299               | 405                         | 511                        | 982            | 246          | 109            |              |
| CL   | 68.1            | COEFF              | TREES/ACRE        |                   |                             | # OF PLOTS REQ.            |                | INF. POP.    |                |              |
| SD:  | 1.0             | VAR.%              | S.E.%             | LOW               | AVG                         | HIGH                       | 5              | 10           | 15             |              |
| DOUG FIR   |                 | 112.4              | 16.7              | 28                | 33                          | 39                         |                |              |                |              |
| WHEMLOCK   |                 | 178.3              | 26.6              | 16                | 22                          | 28                         |                |              |                |              |
| R ALDER  |                 | 211.5              | 31.5              | 12                | 18                          | 23                         |                |              |                |              |
| S SPRUCE   |                 | 670.8              | 99.9              | 0                 | 0                           | 1                          |                |              |                |              |
| BL MAPLE   |                 | 670.8              | 99.9              | 0                 | 1                           | 1                          |                |              |                |              |
| TOTAL  |                 | 84.6               | 12.6              | 65                | 74                          | 84                         | 286            | 71           | 32             |              |
| CL   | 68.1            | COEFF              | BASAL AREA/ACRE   |                   |                             | # OF PLOTS REQ.            |                | INF. POP.    |                |              |
| SD:  | 1.0             | VAR.%              | S.E.%             | LOW               | AVG                         | HIGH                       | 5              | 10           | 15             |              |
| DOUG FIR   |                 | 109.9              | 16.4              | 56                | 68                          | 79                         |                |              |                |              |
| WHEMLOCK   |                 | 177.4              | 26.4              | 23                | 31                          | 39                         |                |              |                |              |
| R ALDER  |                 | 206.6              | 30.8              | 12                | 18                          | 23                         |                |              |                |              |
| S SPRUCE   |                 | 670.8              | 99.9              | 0                 | 1                           | 2                          |                |              |                |              |
| BL MAPLE   |                 | 670.8              | 99.9              | 0                 | 1                           | 2                          |                |              |                |              |
| TOTAL  |                 | 82.9               | 12.3              | 104               | 118                         | 133                        | 274            | 69           | 30             |              |
| CL   | 68.1            | COEFF              | NET BF/ACRE       |                   |                             | # OF PLOTS REQ.            |                | INF. POP.    |                |              |
| SD:  | 1.0             | VAR.%              | S.E.%             | LOW               | AVG                         | HIGH                       | 5              | 10           | 15             |              |
| DOUG FIR   |                 | 111.3              | 16.6              | 8,017             | 9,611                       | 11,204                     |                |              |                |              |
| WHEMLOCK   |                 | 178.9              | 26.6              | 2,849             | 3,884                       | 4,919                      |                |              |                |              |
| R ALDER  |                 | 206.3              | 30.7              | 966               | 1,394                       | 1,823                      |                |              |                |              |
| S SPRUCE   |                 |                    |                   |                   |                             |                            |                |              |                |              |
| BL MAPLE   |                 | 670.8              | 99.9              | 0                 | 62                          | 124                        |                |              |                |              |
| TOTAL  |                 | 87.6               | 13.1              | 13,000            | 14,951                      | 16,902                     | 307            | 77           | 34             |              |

| TC TSTATS  |        |                   |        | STATISTICS   |           |                 |        | PAGE 1    |       |       |
|--|--------|-------------------|--------|--------------|-----------|-----------------|--------|-----------|-------|-------|
|  |        |                   |        | PROJECT DEMO |           | DATE 6/3/2011   |        |           |       |       |
| TWP  | RGE    | SECT              | TRACT  | TYPE         | ACRES     | PLOTS           | TREES  | CuFt      | BdFt  |       |
| 07N  | 06W    | 28                | AREA13 | TAKE         | 96.00     | 40              | 224    | 1         | W     |       |
|  |        |                   |        | TREES        | ESTIMATED | PERCENT         |        |           |       |       |
|  |        |                   |        | PER PLOT     | TOTAL     | SAMPLE          |        |           |       |       |
|  |        |                   |        |              | TREES     | TREES           |        |           |       |       |
| TOTAL  | 40     | 224               | 5.6    |              |           |                 |        |           |       |       |
| CRUISE   | 14     | 78                | 5.6    | 11,225       |           |                 | .7     |           |       |       |
| DBH COUNT  |        |                   |        |              |           |                 |        |           |       |       |
| REFOREST   |        |                   |        |              |           |                 |        |           |       |       |
| COUNT  | 26     | 146               | 5.6    |              |           |                 |        |           |       |       |
| BLANKS   |        |                   |        |              |           |                 |        |           |       |       |
| 100 %  |        |                   |        |              |           |                 |        |           |       |       |
| STAND SUMMARY  |        |                   |        |              |           |                 |        |           |       |       |
|  | SAMPLE | TREES             | AVG    | BOLE         | REL       | BASAL           | GROSS  | NET       | GROSS | NET   |
|  | TREES  | /ACRE             | DBH    | LEN          | DEN       | AREA            | BF/AC  | BF/AC     | CF/AC | CF/AC |
| DOUG FIR   | 44     | 40.3              | 24.4   | 82           |           | 130.4           | 25,767 | 23,690    | 5,853 | 5,455 |
| R ALDER  | 17     | 57.8              | 13.7   | 39           |           | 59.3            | 4,677  | 4,032     | 1,495 | 1,416 |
| WHEMLOCK   | 17     | 18.8              | 16.5   | 63           |           | 28.0            | 4,367  | 4,183     | 1,116 | 1,088 |
| TOTAL  | 78     | 116.9             | 18.5   | 58           |           | 217.7           | 34,811 | 31,904    | 8,465 | 7,958 |
| CONFIDENCE LIMITS OF THE SAMPLE                                  |        |                   |        |              |           |                 |        |           |       |       |
| 68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR |        |                   |        |              |           |                 |        |           |       |       |
| CL: 68.1 %   | COEFF  | SAMPLE TREES - BF |        |              |           | # OF TREES REQ. |        | INF. POP. |       |       |
| SD: 1.0  | VAR.%  | S.E.%             | LOW    | AVG          | HIGH      | 5               | 10     | 15        |       |       |
| DOUG FIR   | 67.4   | 10.2              | 759    | 845          | 930       |                 |        |           |       |       |
| R ALDER  | 59.7   | 14.9              | 67     | 79           | 91        |                 |        |           |       |       |
| WHEMLOCK   | 95.8   | 23.9              | 289    | 381          | 472       |                 |        |           |       |       |
| TOTAL  | 97.1   | 11.0              | 513    | 577          | 640       | 376             | 94     | 42        |       |       |
| CL: 68.1 %   | COEFF  | TREES/ACRE        |        |              |           | # OF PLOTS REQ. |        | INF. POP. |       |       |
| SD: 1.0  | VAR.%  | S.E.%             | LOW    | AVG          | HIGH      | 5               | 10     | 15        |       |       |
| DOUG FIR   | 91.6   | 14.5              | 34     | 40           | 46        |                 |        |           |       |       |
| R ALDER  | 128.8  | 20.4              | 46     | 58           | 70        |                 |        |           |       |       |
| WHEMLOCK   | 238.8  | 37.7              | 12     | 19           | 26        |                 |        |           |       |       |
| TOTAL  | 61.2   | 9.7               | 106    | 117          | 128       | 150             | 37     | 17        |       |       |
| CL: 68.1 %   | COEFF  | BASAL AREA/ACRE   |        |              |           | # OF PLOTS REQ. |        | INF. POP. |       |       |
| SD: 1.0  | VAR.%  | S.E.%             | LOW    | AVG          | HIGH      | 5               | 10     | 15        |       |       |
| DOUG FIR   | 78.4   | 12.4              | 114    | 130          | 147       |                 |        |           |       |       |
| R ALDER  | 122.8  | 19.4              | 48     | 59           | 71        |                 |        |           |       |       |
| WHEMLOCK   | 197.3  | 31.2              | 19     | 28           | 37        |                 |        |           |       |       |
| TOTAL  | 45.5   | 7.2               | 202    | 218          | 233       | 82              | 21     | 9         |       |       |
| CL: 68.1 %   | COEFF  | NET BF/ACRE       |        |              |           | # OF PLOTS REQ. |        | INF. POP. |       |       |
| SD: 1.0  | VAR.%  | S.E.%             | LOW    | AVG          | HIGH      | 5               | 10     | 15        |       |       |
| DOUG FIR   | 81.5   | 12.9              | 20,641 | 23,690       | 26,738    |                 |        |           |       |       |
| R ALDER  | 126.7  | 20.0              | 3,225  | 4,032        | 4,840     |                 |        |           |       |       |
| WHEMLOCK   | 197.8  | 31.3              | 2,875  | 4,183        | 5,490     |                 |        |           |       |       |
| TOTAL  | 59.1   | 9.3               | 28,926 | 31,904       | 34,883    | 139             | 35     | 15        |       |       |



| TC TSTATS |       |       |             | STATISTICS |        |                 | PAGE  | 2         |      |  |
|-----------|-------|-------|-------------|------------|--------|-----------------|-------|-----------|------|--|
|           |       |       |             | PROJECT    | DEMO   |                 | DATE  | 6/3/2011  |      |  |
| TWP       | RGE   | SECT  | TRACT       | TYPE       | ACRES  | PLOTS           | TREES | CuFt      | BdFt |  |
| 07N       | 06W   | 28    | AREA13      | 00MC       | 96.00  | 40              | 241   | 1         | W    |  |
| CL:       | 68.1% | COEFF | NET BF/ACRE |            |        | # OF PLOTS REQ. |       | INF. POP. |      |  |
| SD:       | 1.0   | VAR.  | S.E.%       | LOW        | AVG    | HIGH            | 5     | 10        | 15   |  |
| CEDLEAV   |       | 370.7 | 58.6        | 54         | 131    | 207             |       |           |      |  |
| SNAG      |       |       |             |            |        |                 |       |           |      |  |
| TOTAL     |       | 58.8  | 9.3         | 29,059     | 32,035 | 35,011          | 138   | 35        | 15   |  |



| TC PSTATS  |              | PROJECT STATISTICS |                   |          |                |                       |                      | PAGE      | 1           |           |
|--|--------------|--------------------|-------------------|----------|----------------|-----------------------|----------------------|-----------|-------------|-----------|
|  |              | PROJECT DEMO       |                   |          |                |                       |                      | DATE      | 5/4/2011    |           |
| TWP  | RGE          | SC                 | TRACT             | TYPE     | ACRES          | PLOTS                 | TREES                | CuFt      | BdFt        |           |
| 07N  | 06           | 29                 | AREA24            | 00PC     | 177.00         | 45                    | 297                  | 1         | W           |           |
|  |              |                    | PLOTS             | TREES    | TREES PER PLOT | ESTIMATED TOTAL TREES | PERCENT SAMPLE TREES |           |             |           |
| TOTAL  |              |                    | 45                | 297      | 6.6            |                       |                      |           |             |           |
| CRUISE   |              |                    | 20                | 99       | 4.9            | 22,626                | .4                   |           |             |           |
| DBH COUNT  |              |                    |                   |          |                |                       |                      |           |             |           |
| REFOREST   |              |                    |                   |          |                |                       |                      |           |             |           |
| COUNT  |              |                    | 25                | 170      | 6.8            |                       |                      |           |             |           |
| BLANKS   |              |                    |                   |          |                |                       |                      |           |             |           |
| 100 %  |              |                    |                   |          |                |                       |                      |           |             |           |
| STAND SUMMARY  |              |                    |                   |          |                |                       |                      |           |             |           |
|  | SAMPLE TREES | TREES /ACRE        | AVG DBH           | BOLE LEN | REL DEN        | BASAL AREA            | GROSS BF/AC          | NET BF/AC | GROSS CF/AC | NET CF/AC |
| DOUGLEAV   | 46           | 28.7               | 25.4              | 97       |                | 101.3                 | 21,431               | 20,219    | 4,841       | 4,688     |
| DOUG FIR   | 20           | 33.5               | 19.2              | 72       |                | 67.6                  | 10,355               | 9,611     | 2,672       | 2,556     |
| WHEMLOCK   | 9            | 22.1               | 16.1              | 58       |                | 31.1                  | 4,240                | 3,884     | 1,102       | 1,049     |
| HEMLEAV  | 4            | 6.9                | 22.8              | 70       |                | 19.6                  | 3,186                | 2,936     | 786         | 755       |
| R ALDER  | 5            | 17.7               | 13.6              | 38       |                | 17.8                  | 1,417                | 1,394     | 442         | 442       |
| ALDRLEAV   | 4            | 11.9               | 14.8              | 41       |                | 14.2                  | 1,116                | 1,098     | 392         | 392       |
| SNAG   | 9            | 6.1                | 17.2              | 51       |                | 9.8                   | 128                  | 128       | 28          | 28        |
| S SPRUCE   | 1            | .4                 | 20.0              | 40       |                | .9                    |                      |           |             |           |
| BL MAPLE   | 1            | .6                 | 17.0              | 50       |                | .9                    | 73                   | 62        | 27          | 24        |
| TOTAL  | 99           | 127.8              | 19.4              | 66       |                | 263.1                 | 41,945               | 39,332    | 10,290      | 9,935     |
| CONFIDENCE LIMITS OF THE SAMPLE                                  |              |                    |                   |          |                |                       |                      |           |             |           |
| 68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR |              |                    |                   |          |                |                       |                      |           |             |           |
| CL   | 68.1         | COEFF              | SAMPLE TREES - BF |          |                | # OF TREES REQ.       |                      | INF. POP. |             |           |
| SD:  | 1.0          | VAR.%              | S.E.%             | LOW      | AVG            | HIGH                  | 5                    | 10        | 15          |           |
| DOUGLEAV   |              | 54.5               | 8.0               | 797      | 866            | 936                   |                      |           |             |           |
| DOUG FIR   |              | 139.8              | 32.1              | 391      | 575            | 759                   |                      |           |             |           |
| WHEMLOCK   |              | 80.0               | 28.2              | 193      | 269            | 345                   |                      |           |             |           |
| HEMLEAV  |              | 67.2               | 38.4              | 353      | 573            | 792                   |                      |           |             |           |
| R ALDER  |              | 84.6               | 42.0              | 64       | 110            | 156                   |                      |           |             |           |
| ALDRLEAV   |              | 73.3               | 41.9              | 68       | 118            | 167                   |                      |           |             |           |
| SNAG   |              | 300.0              | 105.9             |          | 41             | 85                    |                      |           |             |           |
| S SPRUCE   |              |                    |                   |          |                |                       |                      |           |             |           |
| BL MAPLE   |              |                    |                   |          |                |                       |                      |           |             |           |
| TOTAL  |              | 99.9               | 10.0              | 523      | 581            | 640                   | 399                  | 100       | 44          |           |
| CL   | 68.1         | COEFF              | TREES/ACRE        |          |                | # OF PLOTS REQ.       |                      | INF. POP. |             |           |
| SD:  | 1.0          | VAR.%              | S.E.%             | LOW      | AVG            | HIGH                  | 5                    | 10        | 15          |           |
| DOUGLEAV   |              | 56.9               | 8.5               | 26       | 29             | 31                    |                      |           |             |           |
| DOUG FIR   |              | 112.4              | 16.7              | 28       | 33             | 39                    |                      |           |             |           |
| WHEMLOCK   |              | 178.3              | 26.6              | 16       | 22             | 28                    |                      |           |             |           |
| HEMLEAV  |              | 174.5              | 26.0              | 5        | 7              | 9                     |                      |           |             |           |
| R ALDER  |              | 211.5              | 31.5              | 12       | 18             | 23                    |                      |           |             |           |
| ALDRLEAV   |              | 282.2              | 42.0              | 7        | 12             | 17                    |                      |           |             |           |
| SNAG   |              | 243.5              | 36.3              | 4        | 6              | 8                     |                      |           |             |           |
| S SPRUCE   |              | 670.8              | 99.9              | 0        | 0              | 1                     |                      |           |             |           |
| BL MAPLE   |              | 670.8              | 99.9              | 0        | 1              | 1                     |                      |           |             |           |
| TOTAL  |              | 48.7               | 7.3               | 119      | 128            | 137                   | 95                   | 24        | 11          |           |
| CL   | 68.1         | COEFF              | BASAL AREA/ACRE   |          |                | # OF PLOTS REQ.       |                      | INF. POP. |             |           |
| SD:  | 1.0          | VAR.%              | S.E.%             | LOW      | AVG            | HIGH                  | 5                    | 10        | 15          |           |
| DOUGLEAV   |              | 48.1               | 7.2               | 94       | 101            | 109                   |                      |           |             |           |
| DOUG FIR   |              | 109.9              | 16.4              | 56       | 68             | 79                    |                      |           |             |           |
| WHEMLOCK   |              | 177.4              | 26.4              | 23       | 31             | 39                    |                      |           |             |           |
| HEMLEAV  |              | 172.4              | 25.7              | 15       | 20             | 25                    |                      |           |             |           |

| TC PSTATS |      | PROJECT STATISTICS |        |                 |        |        |                 | PAGE     | 2         |      |
|-----------|------|--------------------|--------|-----------------|--------|--------|-----------------|----------|-----------|------|
|           |      | PROJECT            |        | DEMO            |        | DATE   |                 | 5/4/2011 |           |      |
| TWP       | RGE  | SC                 | TRACT  | TYPE            | ACRES  |        | PLOTS           | TREES    | CuFt      | BdFt |
| 07N       | 06   | 29                 | AREA24 | 00PC            | 177.00 |        | 45              | 297      | 1         | W    |
| CL        | 68.1 | COEFF              |        | BASAL AREA/ACRE |        |        | # OF PLOTS REQ. |          | INF. POP. |      |
| SD:       | 1.00 | VAR.               | S.E.%  | LOW             | AVG    | HIGH   | 5               | 10       | 15        |      |
| R ALDER   |      | 206.6              | 30.8   | 12              | 18     | 23     |                 |          |           |      |
| ALDRLEAV  |      | 282.2              | 42.0   | 8               | 14     | 20     |                 |          |           |      |
| SNAG      |      | 216.4              | 32.2   | 7               | 10     | 13     |                 |          |           |      |
| S SPRUCE  |      | 670.8              | 99.9   | 0               | 1      | 2      |                 |          |           |      |
| BL MAPLE  |      | 670.8              | 99.9   | 0               | 1      | 2      |                 |          |           |      |
| TOTAL     |      | 38.7               | 5.8    | 248             | 263    | 278    | 60              | 15       | 7         |      |
| CL        | 68.1 | COEFF              |        | NET BF/ACRE     |        |        | # OF PLOTS REQ. |          | INF. POP. |      |
| SD:       | 1.0  | VAR.%              | S.E.%  | LOW             | AVG    | HIGH   | 5               | 10       | 15        |      |
| DOUGLEAV  |      | 47.5               | 7.1    | 18,787          | 20,219 | 21,651 |                 |          |           |      |
| DOUG FIR  |      | 111.3              | 16.6   | 8,017           | 9,611  | 11,204 |                 |          |           |      |
| WHEMLOCK  |      | 178.9              | 26.6   | 2,849           | 3,884  | 4,919  |                 |          |           |      |
| HEMLEAV   |      | 172.8              | 25.7   | 2,181           | 2,936  | 3,692  |                 |          |           |      |
| R ALDER   |      | 206.3              | 30.7   | 966             | 1,394  | 1,823  |                 |          |           |      |
| ALDRLEAV  |      | 282.2              | 42.0   | 636             | 1,098  | 1,560  |                 |          |           |      |
| SNAG      |      | 552.7              | 82.3   | 23              | 128    | 233    |                 |          |           |      |
| S SPRUCE  |      |                    |        |                 |        |        |                 |          |           |      |
| BL MAPLE  |      | 670.8              | 99.9   | 0               | 62     | 124    |                 |          |           |      |
| TOTAL     |      | 43.6               | 6.5    | 36,776          | 39,332 | 41,889 | 76              | 19       | 8         |      |

Log Stock Table - MBF

|                      |        |
|----------------------|--------|
| T07N R06W S28 TyTAKE | 96.00  |
| T07N R06W S29 TyRW   | 11.00  |
| T07N R06W S29 TyTAKE | 177.00 |

Project: DEMO  
Acres 284.00

Page 1  
Date 6/3/2011  
Time 10:46:51AM

| Spp | S | So Gr | Log | Gross | Def   | Net   | %     | Net Volume by Scaling Diameter in Inches |     |     |     |       |       |       |       |       |       |       |     |       |
|-----|---|-------|-----|-------|-------|-------|-------|--|-----|-----|-----|-------|-------|-------|-------|-------|-------|-------|-----|-------|
|     |   |       |     |       |       |       |       | 2-3                                      | 4-5 | 6-7 | 8-9 | 10-11 | 12-13 | 14-15 | 16-19 | 20-23 | 24-29 | 30-39 | 40+ |       |
| D   |   | DO    | CU  | 4     | 12    | 100.0 |       |  |     |     |     |       |       |       |       |       |       |       |     |       |
| D   |   | DO    | CU  | 6     | 60    | 100.0 |       |  |     |     |     |       |       |       |       |       |       |       |     |       |
| D   |   | DO    | CU  | 8     | 12    | 100.0 |       |  |     |     |     |       |       |       |       |       |       |       |     |       |
| D   |   | DO    | CU  | 10    | 37    | 100.0 |       |  |     |     |     |       |       |       |       |       |       |       |     |       |
| D   |   | DO    | CU  | 16    | 16    | 100.0 |       |  |     |     |     |       |       |       |       |       |       |       |     |       |
| D   |   | DO    | CU  | 18    | 24    | 100.0 |       |  |     |     |     |       |       |       |       |       |       |       |     |       |
| D   |   | DO    | CU  | 20    | 1     | 100.0 |       |  |     |     |     |       |       |       |       |       |       |       |     |       |
| D   |   | DO    | CU  | 28    | 5     | 100.0 |       |  |     |     |     |       |       |       |       |       |       |       |     |       |
| D   |   | DO    | CU  | 40    | 78    | 100.0 |       |  |     |     |     |       |       |       |       |       |       |       |     |       |
| D   |   | DO    | CU  | 52    | 9     | 100.0 |       |  |     |     |     |       |       |       |       |       |       |       |     |       |
| D   |   | DO    | 2S  | 18    | 2     |       | 2     | .0                                       |     |     |     |       |       |       |       |       |       |       | 2   |       |
| D   |   | DO    | 2S  | 20    | 10    | 7.1   | 9     | .2                                       |     |     |     |       |       | 9     |       |       |       |       |     |       |
| D   |   | DO    | 2S  | 22    | 32    |       | 32    | .7                                       |     |     |     |       |       |       |       |       |       | 32    |     |       |
| D   |   | DO    | 2S  | 24    | 35    |       | 35    | .8                                       |     |     |     |       |       |       |       |       |       | 3     | 32  |       |
| D   |   | DO    | 2S  | 30    | 83    | 11.1  | 73    | 1.7                                      |     |     |     |       |       |       |       | 73    |       |       |     |       |
| D   |   | DO    | 2S  | 32    | 323   | 2.4   | 315   | 7.3                                      |     |     | 6   | 42    |       | 30    | 190   |       |       | 43    | 4   |       |
| D   |   | DO    | 2S  | 36    | 8     |       | 8     | .2                                       |     |     |     |       |       | 3     |       |       |       | 4     |     |       |
| D   |   | DO    | 2S  | 38    | 13    |       | 13    | .3                                       |     |     |     |       |       |       | 13    |       |       |       |     |       |
| D   |   | DO    | 2S  | 40    | 2,816 | 2.0   | 2,761 | 64.0                                     |     |     |     |       | 53    | 412   |       | 579   | 800   | 619   | 199 | 28 70 |
| D   |   | DO    | 3S  | 12    | 4     |       | 4     | .1                                       |     |     |     | 4     |       |       |       |       |       |       |     |       |
| D   |   | DO    | 3S  | 16    | 0     |       | 0     | .0                                       |     |     |     | 0     |       |       |       |       |       |       |     |       |
| D   |   | DO    | 3S  | 17    | 3     |       | 3     | .1                                       |     |     | 0   | 2     | 0     |       |       |       |       |       |     |       |
| D   |   | DO    | 3S  | 19    | 0     |       | 0     | .0                                       |     |     |     |       | 0     |       |       |       |       |       |     |       |
| D   |   | DO    | 3S  | 20    | 18    | 6.3   | 17    | .4                                       |     |     |     |       | 1     |       |       |       | 15    |       |     |       |
| D   |   | DO    | 3S  | 21    | 13    | 16.5  | 11    | .2                                       |     |     | 2   | 0     |       |       | 8     |       |       |       |     |       |
| D   |   | DO    | 3S  | 22    | 50    | 1.6   | 49    | 1.1                                      |     |     | 26  |       | 22    | 0     |       |       | 1     |       |     |       |
| D   |   | DO    | 3S  | 23    | 0     |       | 0     | .0                                       |     |     | 0   |       |       |       |       |       |       |       |     |       |
| D   |   | DO    | 3S  | 24    | 1     |       | 1     | .0                                       |     |     |     | 1     |       |       |       |       |       |       |     |       |
| D   |   | DO    | 3S  | 25    | 3     |       | 3     | .1                                       |     |     | 1   | 1     | 0     |       |       | 2     |       |       |     |       |
| D   |   | DO    | 3S  | 26    | 1     |       | 1     | .0                                       |     |     |     | 1     |       | 1     |       |       |       |       |     |       |
| D   |   | DO    | 3S  | 27    | 16    |       | 16    | .4                                       |     |     | 4   | 0     | 11    |       |       |       |       |       |     |       |
| D   |   | DO    | 3S  | 28    | 4     |       | 4     | .1                                       |     |     | 0   | 0     |       |       | 3     |       |       |       |     |       |
| D   |   | DO    | 3S  | 30    | 23    |       | 23    | .5                                       |     |     | 18  | 5     |       |       |       |       |       |       |     |       |
| D   |   | DO    | 3S  | 31    | 1     |       | 1     | .0                                       |     |     | 1   |       |       |       |       |       |       |       |     |       |
| D   |   | DO    | 3S  | 32    | 142   | 3.3   | 137   | 3.2                                      |     |     | 1   | 34    | 101   | 1     |       |       |       |       |     |       |
| D   |   | DO    | 3S  | 33    | 26    | 57.7  | 11    | .3                                       |     |     |     | 10    | 1     |       |       |       |       |       |     |       |
| D   |   | DO    | 3S  | 34    | 51    |       | 51    | 1.2                                      |     |     | 0   | 32    |       | 15    | 1     |       | 3     |       |     |       |



|                      |        |
|----------------------|--------|
| T07N R06W S28 TyTAKE | 96.00  |
| T07N R06W S29 TyRW   | 11.00  |
| T07N R06W S29 TyTAKE | 177.00 |

Project: DEMO  
Acres 284.00

| Spp   | S<br>T | So<br>rt    | Gr<br>de | Log<br>Len | Gross<br>MBF | Def<br>% | Net<br>MBF | %<br>Spc | Net Volume by Scaling Diameter in Inches |     |     |     |       |       |       |       |       |       |       |     |
|-------|--------|-------------|----------|------------|--------------|----------|------------|----------|--|-----|-----|-----|-------|-------|-------|-------|-------|-------|-------|-----|
|       |        |             |          |            |              |          |            |          | 2-3                                      | 4-5 | 6-7 | 8-9 | 10-11 | 12-13 | 14-15 | 16-19 | 20-23 | 24-29 | 30-39 | 40+ |
| H     |        | Totals      |          |            | 1,250        | 7.0      | 1,163      | 18.9     |  |     | 217 | 173 | 259   | 52    | 230   | 182   | 33    | 18    |       |     |
| A     |        | DO          | CU       | 2          | 5            | 100.0    |            |          |  |     |     |     |       |       |       |       |       |       |       |     |
| A     |        | DO          | CU       | 6          | 24           | 100.0    |            |          |  |     |     |     |       |       |       |       |       |       |       |     |
| A     |        | DO          | CU       | 7          | 12           | 100.0    |            |          |  |     |     |     |       |       |       |       |       |       |       |     |
| A     |        | DO          | CR       | 16         | 23           | 10.5     | 20         | 3.1      |  |     | 13  | 7   |       |       |       |       |       |       |       |     |
| A     |        | DO          | CR       | 17         | 3            |          | 3          | .5       |  | 3   |     |     |       |       |       |       |       |       |       |     |
| A     |        | DO          | CR       | 18         | 17           |          | 17         | 2.6      |  | 5   |     | 13  |       |       |       |       |       |       |       |     |
| A     |        | DO          | CR       | 20         | 32           |          | 32         | 4.9      |  |     | 32  |     |       |       |       |       |       |       |       |     |
| A     |        | DO          | CR       | 21         | 11           |          | 11         | 1.6      |  |     | 11  |     |       |       |       |       |       |       |       |     |
| A     |        | DO          | CR       | 24         | 132          |          | 132        | 20.0     |  | 8   | 32  |     | 27    |       | 64    |       |       |       |       |     |
| A     |        | DO          | CR       | 28         | 30           |          | 30         | 4.6      |  |     | 30  |     |       |       |       |       |       |       |       |     |
| A     |        | DO          | CR       | 30         | 56           | 10.6     | 50         | 7.6      |  |     |     | 21  |       | 29    |       |       |       |       |       |     |
| A     |        | DO          | CR       | 32         | 218          | 7.6      | 201        | 30.4     |  |     | 64  | 54  | 84    |       |       |       |       |       |       |     |
| A     |        | DO          | CR       | 39         | 11           |          | 11         | 1.7      |  |     | 11  |     |       |       |       |       |       |       |       |     |
| A     |        | DO          | CR       | 40         | 152          |          | 152        | 23.0     |  |     | 107 | 38  | 4     | 4     |       |       |       |       |       |     |
| A     |        | Totals      |          |            | 728          | 9.1      | 661        | 10.8     |  | 16  | 301 | 132 | 115   | 33    | 64    |       |       |       |       |     |
| M     |        | DO          | CU       | 8          | 1            | 100.0    |            |          |  |     |     |     |       |       |       |       |       |       |       |     |
| M     |        | DO          | CR       | 40         | 13           | 8.3      | 12         | 100.0    |  |     |     | 12  |       |       |       |       |       |       |       |     |
| M     |        | Totals      |          |            | 14           | 15.4     | 12         | .2       |  |     |     | 12  |       |       |       |       |       |       |       |     |
| Total |        | All Species |          |            | 6,658        | 7.6      | 6,150      | 100.0    |  | 23  | 809 | 569 | 884   | 569   | 945   | 1264  | 734   | 255   | 28    | 70  |

| TC                          |               | PSTNDSUM |           | Stand Table Summary |                |             |              |               |               | Page             |                       | 1                     |        |        |       |
|-----------------------------|---------------|----------|-----------|---------------------|----------------|-------------|--------------|---------------|---------------|------------------|-----------------------|-----------------------|--------|--------|-------|
|                             |               |          |           |                     |                |             |              |               |               | Date:            |                       | 6/3/2011              |        |        |       |
| T07N R06W S28 TyTAKE 96.00  |               |          |           | Project             |                |             |              | DEMO          |               | Time: 10:48:02AM |                       |                       |        |        |       |
| T07N R06W S29 TyRW 11.00    |               |          |           | Acres               |                |             |              | 284.00        |               | Grown Year:      |                       |                       |        |        |       |
| T07N R06W S29 TyTAKE 177.00 |               |          |           |                     |                |             |              |               |               |                  |                       |                       |        |        |       |
| S<br>Spc T                  | Sample<br>DBH | Trees    | Tot       |                     | Trees/<br>Acre | BA/<br>Acre | Logs<br>Acre | Average Log   |               | Tons/<br>Acre    | Net<br>Cu.Ft.<br>Acre | Net<br>Bd.Ft.<br>Acre | Totals |        |       |
|                             |               |          | FF<br>16' | Av<br>Ht            |                |             |              | Net<br>Cu.Ft. | Net<br>Bd.Ft. |                  |                       |                       | Tons   | Cunits | MBF   |
| D                           | 10            | 1        | 88        | 35                  | 1.837          | 1.00        | 1.84         | 9.0           | 30.0          |                  | 17                    | 55                    |        | 47     | 16    |
| D                           | 13            | 2        | 85        | 62                  | 2.391          | 2.20        | 2.39         | 22.0          | 60.0          |                  | 53                    | 143                   |        | 149    | 41    |
| D                           | 14            | 3        | 88        | 85                  | 2.999          | 3.21        | 5.06         | 19.3          | 74.1          |                  | 98                    | 375                   |        | 278    | 106   |
| D                           | 15            | 2        | 86        | 110                 | 1.796          | 2.20        | 3.59         | 25.5          | 100.0         |                  | 92                    | 359                   |        | 260    | 102   |
| D                           | 16            | 7        | 87        | 67                  | 4.807          | 6.71        | 4.88         | 27.6          | 86.8          |                  | 135                   | 423                   |        | 382    | 120   |
| D                           | 18            | 3        | 81        | 111                 | 1.303          | 2.30        | 2.66         | 35.3          | 118.7         |                  | 94                    | 316                   |        | 267    | 90    |
| D                           | 19            | 6        | 85        | 119                 | 2.798          | 5.51        | 7.22         | 35.1          | 125.4         |                  | 253                   | 906                   |        | 720    | 257   |
| D                           | 20            | 7        | 87        | 113                 | 2.157          | 4.71        | 5.37         | 38.8          | 151.3         |                  | 209                   | 812                   |        | 592    | 231   |
| D                           | 21            | 9        | 85        | 82                  | 3.165          | 7.61        | 5.08         | 44.0          | 134.8         |                  | 224                   | 684                   |        | 635    | 194   |
| D                           | 22            | 3        | 85        | 104                 | .455           | 1.20        | .95          | 42.7          | 153.6         |                  | 40                    | 145                   |        | 115    | 41    |
| D                           | 23            | 9        | 87        | 131                 | 2.256          | 6.51        | 6.77         | 48.0          | 195.9         |                  | 325                   | 1,326                 |        | 922    | 377   |
| D                           | 24            | 8        | 86        | 123                 | 1.753          | 5.51        | 4.91         | 51.8          | 203.3         |                  | 254                   | 998                   |        | 722    | 283   |
| D                           | 25            | 8        | 87        | 123                 | 2.145          | 7.31        | 6.14         | 53.9          | 222.2         |                  | 331                   | 1,365                 |        | 941    | 388   |
| D                           | 26            | 9        | 84        | 111                 | 1.521          | 5.61        | 4.02         | 58.3          | 235.9         |                  | 234                   | 948                   |        | 665    | 269   |
| D                           | 27            | 5        | 89        | 135                 | .806           | 3.20        | 2.17         | 73.6          | 349.5         |                  | 159                   | 757                   |        | 453    | 215   |
| D                           | 28            | 7        | 88        | 132                 | .162           | .69         | .51          | 69.1          | 315.9         |                  | 35                    | 161                   |        | 100    | 46    |
| D                           | 29            | 9        | 88        | 137                 | 1.375          | 6.31        | 4.06         | 70.6          | 319.0         |                  | 287                   | 1,296                 |        | 815    | 368   |
| D                           | 30            | 5        | 86        | 124                 | .837           | 4.11        | 2.51         | 69.3          | 316.5         |                  | 174                   | 794                   |        | 494    | 226   |
| D                           | 31            | 3        | 83        | 95                  | .229           | 1.20        | .50          | 75.9          | 292.8         |                  | 38                    | 145                   |        | 107    | 41    |
| D                           | 32            | 4        | 87        | 138                 | .592           | 3.31        | 1.78         | 97.7          | 472.5         |                  | 173                   | 839                   |        | 492    | 238   |
| D                           | 33            | 2        | 84        | 147                 | .033           | .20         | .10          | 100.7         | 488.3         |                  | 10                    | 49                    |        | 29     | 14    |
| D                           | 34            | 6        | 85        | 133                 | .699           | 4.41        | 2.10         | 99.4          | 458.1         |                  | 208                   | 960                   |        | 592    | 273   |
| D                           | 35            | 3        | 86        | 132                 | .180           | 1.20        | .54          | 100.3         | 483.4         |                  | 54                    | 260                   |        | 154    | 74    |
| D                           | 36            | 2        | 81        | 148                 | .028           | .20         | .08          | 103.5         | 515.0         |                  | 9                     | 43                    |        | 25     | 12    |
| D                           | 38            | 2        | 91        | 149                 | .140           | 1.10        | .43          | 142.2         | 777.4         |                  | 61                    | 336                   |        | 174    | 95    |
| D                           | 43            | 1        | 71        | 125                 | .099           | 1.00        | .20          | 108.0         | 510.0         |                  | 21                    | 101                   |        | 61     | 29    |
| D                           | 48            | 1        | 68        | 167                 | .080           | 1.00        | .24          | 142.0         | 736.7         |                  | 34                    | 176                   |        | 96     | 50    |
| D                           | 55            | 1        | 69        | 154                 | .061           | 1.00        | .18          | 165.3         | 893.3         |                  | 30                    | 163                   |        | 86     | 46    |
| D                           | 75            | 2        | 85        | 78                  | .072           | 2.20        | .14          | 492.0         | 1755.0        |                  | 71                    | 252                   |        | 201    | 72    |
| D                           | Totals        | 130      | 86        | 100                 | 36.775         | 92.72       | 76.41        | 48.7          | 198.8         |                  | 3,723                 | 15,189                |        | 10,573 | 4,314 |
| H                           | 10            | 1        | 88        | 18                  | 1.021          | .56         | 1.02         | 7.0           | 30.0          |                  | 7                     | 31                    |        | 20     | 9     |
| H                           | 11            | 2        | 88        | 94                  | 3.493          | 2.31        | 6.99         | 13.0          | 45.0          |                  | 91                    | 314                   |        | 258    | 89    |
| H                           | 13            | 3        | 88        | 77                  | 3.105          | 2.86        | 5.61         | 16.4          | 60.0          |                  | 92                    | 336                   |        | 262    | 96    |
| H                           | 14            | 5        | 86        | 60                  | 3.719          | 3.98        | 4.76         | 22.5          | 66.4          |                  | 107                   | 316                   |        | 304    | 90    |
| H                           | 15            | 3        | 90        | 82                  | 2.332          | 2.86        | 4.66         | 21.5          | 82.8          |                  | 100                   | 386                   |        | 284    | 110   |
| H                           | 16            | 2        | 89        | 103                 | .797           | 1.11        | 1.59         | 31.8          | 117.5         |                  | 51                    | 187                   |        | 144    | 53    |
| H                           | 17            | 3        | 88        | 73                  | 1.816          | 2.86        | 3.63         | 26.1          | 93.8          |                  | 95                    | 340                   |        | 269    | 97    |
| H                           | 19            | 4        | 89        | 112                 | .719           | 1.42        | 2.00         | 34.2          | 132.7         |                  | 69                    | 266                   |        | 195    | 75    |
| H                           | 20            | 4        | 89        | 97                  | 1.567          | 3.42        | 4.45         | 32.8          | 130.3         |                  | 146                   | 579                   |        | 415    | 164   |
| H                           | 21            | 2        | 86        | 103                 | .958           | 2.31        | 1.92         | 47.5          | 185.0         |                  | 91                    | 355                   |        | 259    | 101   |
| H                           | 23            | 3        | 86        | 82                  | .992           | 2.86        | 1.98         | 51.8          | 192.1         |                  | 103                   | 381                   |        | 292    | 108   |
| H                           | 25            | 1        | 87        | 94                  | .163           | .56         | .33          | 71.5          | 270.0         |                  | 23                    | 88                    |        | 66     | 25    |
| H                           | 30            | 1        | 88        | 97                  | .031           | .15         | .06          | 106.5         | 445.0         |                  | 7                     | 27                    |        | 19     | 8     |
| H                           | 31            | 1        | 86        | 110                 | .029           | .15         | .06          | 102.0         | 460.0         |                  | 6                     | 26                    |        | 17     | 8     |
| H                           | 32            | 2        | 81        | 106                 | .413           | 2.31        | .83          | 84.0          | 365.0         |                  | 69                    | 301                   |        | 197    | 86    |
| H                           | 35            | 1        | 80        | 110                 | .083           | .56         | .17          | 117.5         | 510.0         |                  | 20                    | 85                    |        | 56     | 24    |
| H                           | 45            | 1        | 78        | 110                 | .050           | .56         | .10          | 148.5         | 735.0         |                  | 15                    | 74                    |        | 43     | 21    |
| H                           | Totals        | 39       | 88        | 80                  | 21.289         | 30.82       | 40.15        | 27.2          | 102.0         |                  | 1,091                 | 4,095                 |        | 3,098  | 1,163 |
| A                           | 10            | 2        | 87        | 36                  | 4.324          | 2.36        | 4.32         | 9.0           | 30.0          |                  | 39                    | 130                   |        | 111    | 37    |
| A                           | 11            | 3        | 86        | 45                  | 5.353          | 3.53        | 5.35         | 12.7          | 33.3          |                  | 68                    | 178                   |        | 193    | 51    |
| A                           | 12            | 5        | 86        | 64                  | 6.175          | 4.85        | 7.68         | 18.4          | 49.5          |                  | 142                   | 380                   |        | 402    | 108   |
| A                           | 13            | 3        | 87        | 56                  | 3.833          | 3.53        | 5.11         | 16.7          | 50.0          |                  | 86                    | 256                   |        | 243    | 73    |

| TC                   |               | PSTNDSUM |           | Stand Table Summary |                |             |              |               |               |               | Page                  |                       | 2      |            |       |
|----------------------|---------------|----------|-----------|---------------------|----------------|-------------|--------------|---------------|---------------|---------------|-----------------------|-----------------------|--------|------------|-------|
|                      |               |          |           |                     |                |             |              |               |               | Date:         |                       | 6/3/2011              |        |            |       |
| T07N R06W S28 TyTAKE |               |          |           | 96.00               |                | Project     |              |               |               | DEMO          |                       | Time:                 |        | 10:48:02AM |       |
| T07N R06W S29 TyRW   |               |          |           | 11.00               |                | Acres       |              |               |               | 284.00        |                       | Grown Year:           |        |            |       |
| T07N R06W S29 TyTAKE |               |          |           | 177.00              |                |             |              |               |               |               |                       |                       |        |            |       |
| S<br>Spec T          | Sample<br>DBH | Trees    | Tot       |                     | Trees/<br>Acre | BA/<br>Acre | Logs<br>Acre | Average Log   |               | Tons/<br>Acre | Net<br>Cu.Ft.<br>Acre | Net<br>Bd.Ft.<br>Acre | Totals |            |       |
|                      |               |          | FF<br>16' | Av<br>Ht            |                |             |              | Net<br>Cu.Ft. | Net<br>Bd.Ft. |               |                       |                       | Tons   | Cunits     | MBF   |
| A                    | 14            | 4        | 87        | 56                  | 3.438          | 3.68        | 4.54         | 20.2          | 64.9          |               | 92                    | 295                   |        | 260        | 84    |
| A                    | 15            | 1        | 86        | 59                  | .961           | 1.18        | 1.92         | 18.5          | 65.0          |               | 36                    | 125                   |        | 101        | 35    |
| A                    | 16            | 3        | 87        | 49                  | 2.533          | 3.54        | 3.38         | 22.5          | 60.0          |               | 76                    | 203                   |        | 216        | 58    |
| A                    | 17            | 3        | 86        | 65                  | 1.581          | 2.49        | 3.16         | 24.1          | 80.3          |               | 76                    | 254                   |        | 217        | 72    |
| A                    | 18            | 2        | 87        | 52                  | 1.334          | 2.36        | 1.33         | 34.0          | 60.0          |               | 45                    | 80                    |        | 129        | 23    |
| A                    | 19            | 2        | 87        | 63                  | .669           | 1.32        | 1.34         | 31.0          | 100.5         |               | 41                    | 134                   |        | 118        | 38    |
| A                    | 20            | 2        | 87        | 59                  | 1.079          | 2.35        | 2.16         | 32.0          | 125.0         |               | 69                    | 270                   |        | 196        | 77    |
| A                    | 23            | 1        | 86        | 44                  | .409           | 1.18        | .41          | 42.0          | 60.0          |               | 17                    | 25                    |        | 49         | 7     |
| A                    | Totals        | 31       | 87        | 53                  | 31.688         | 32.36       | 40.70        | 19.3          | 57.2          |               | 787                   | 2,329                 |        | 2,234      | 661   |
| M                    | 17            | 2        | 86        | 62                  | .373           | .59         | .37          | 43.0          | 110.0         |               | 16                    | 41                    |        | 46         | 12    |
| M                    | Totals        | 2        | 86        | 62                  | .373           | .59         | .37          | 43.0          | 110.0         |               | 16                    | 41                    |        | 46         | 12    |
| S                    | 20            | 2        | 88        | 40                  | .270           | .59         |              |               |               |               |                       |                       |        |            |       |
| S                    | Totals        | 2        | 88        | 40                  | .270           | .59         |              |               |               |               |                       |                       |        |            |       |
| Totals               |               | 204      | 87        | 78                  | 90.395         | 157.08      | 157.64       | 35.6          | 137.4         |               | 5,616                 | 21,654                |        | 15,950     | 6,150 |

| TC                          |        | PSTNDSUM        |           | Stand Table Summary |                |             |              |               |               | Page          |                       | 1                     |        |        |       |
|-----------------------------|--------|-----------------|-----------|---------------------|----------------|-------------|--------------|---------------|---------------|---------------|-----------------------|-----------------------|--------|--------|-------|
|                             |        |                 |           |                     |                |             |              |               |               | Date:         |                       | 5/4/2011              |        |        |       |
| T07N R06W S29 TyLEAV 177.00 |        |                 |           | Project DEMO        |                |             |              |               |               | Time:         |                       | 11:12:38AM            |        |        |       |
|                             |        |                 |           | Acres 177.00        |                |             |              |               |               | Grown Year:   |                       |                       |        |        |       |
| S<br>Spe T                  | DBH    | Sample<br>Trees | Tot       |                     | Trees/<br>Acre | BA/<br>Acre | Logs<br>Acre | Average Log   |               | Tons/<br>Acre | Net<br>Cu.Ft.<br>Acre | Net<br>Bd.Ft.<br>Acre | Totals |        |       |
|                             |        |                 | FF<br>16' | Av<br>Ht            |                |             |              | Net<br>Cu.Ft. | Net<br>Bd.Ft. |               |                       |                       | Tons   | Cunits | MBF   |
| DL                          | 16     | 1               | 88        | 87                  | 1.578          | 2.20        | 3.16         | 24.5          | 90.0          |               | 77                    | 284                   |        | 137    | 50    |
| DL                          | 18     | 1               | 91        | 107                 | 1.247          | 2.20        | 3.74         | 25.7          | 100.0         |               | 96                    | 374                   |        | 170    | 66    |
| DL                          | 19     | 1               | 85        | 96                  | 1.119          | 2.20        | 2.24         | 36.5          | 110.0         |               | 82                    | 246                   |        | 145    | 44    |
| DL                          | 20     | 3               | 85        | 111                 | 3.029          | 6.61        | 7.07         | 39.3          | 140.0         |               | 278                   | 990                   |        | 491    | 175   |
| DL                          | 21     | 2               | 89        | 113                 | 1.832          | 4.41        | 5.50         | 36.2          | 136.7         |               | 199                   | 751                   |        | 352    | 133   |
| DL                          | 22     | 2               | 88        | 105                 | 1.669          | 4.41        | 4.17         | 43.4          | 168.0         |               | 181                   | 701                   |        | 321    | 124   |
| DL                          | 23     | 3               | 87        | 121                 | 2.291          | 6.61        | 6.87         | 42.2          | 180.0         |               | 290                   | 1,237                 |        | 514    | 219   |
| DL                          | 24     | 3               | 86        | 125                 | 2.104          | 6.61        | 5.61         | 55.7          | 218.7         |               | 313                   | 1,227                 |        | 554    | 217   |
| DL                          | 25     | 1               | 82        | 136                 | .646           | 2.20        | 1.94         | 55.0          | 213.3         |               | 107                   | 414                   |        | 189    | 73    |
| DL                          | 26     | 4               | 87        | 137                 | 2.390          | 8.81        | 7.17         | 64.4          | 276.7         |               | 462                   | 1,984                 |        | 817    | 351   |
| DL                          | 27     | 2               | 88        | 122                 | 1.108          | 4.41        | 3.32         | 60.0          | 275.0         |               | 199                   | 914                   |        | 353    | 162   |
| DL                          | 28     | 7               | 88        | 132                 | 3.606          | 15.42       | 11.33        | 69.1          | 315.9         |               | 784                   | 3,580                 |        | 1,387  | 634   |
| DL                          | 29     | 3               | 85        | 121                 | 1.441          | 6.61        | 2.88         | 76.5          | 306.7         |               | 220                   | 884                   |        | 390    | 156   |
| DL                          | 30     | 1               | 85        | 140                 | .449           | 2.20        | 1.35         | 86.3          | 376.7         |               | 116                   | 507                   |        | 206    | 90    |
| DL                          | 31     | 2               | 85        | 133                 | .841           | 4.41        | 2.52         | 87.5          | 386.7         |               | 221                   | 975                   |        | 391    | 173   |
| DL                          | 32     | 1               | 88        | 133                 | .394           | 2.20        | 1.18         | 96.3          | 473.3         |               | 114                   | 560                   |        | 202    | 99    |
| DL                          | 33     | 2               | 84        | 147                 | .742           | 4.41        | 2.23         | 100.7         | 488.3         |               | 224                   | 1,087                 |        | 397    | 192   |
| DL                          | 34     | 2               | 86        | 138                 | .699           | 4.41        | 2.10         | 108.2         | 505.0         |               | 227                   | 1,059                 |        | 401    | 187   |
| DL                          | 35     | 2               | 86        | 122                 | .659           | 4.41        | 1.98         | 102.0         | 450.0         |               | 202                   | 890                   |        | 357    | 158   |
| DL                          | 36     | 2               | 81        | 147                 | .623           | 4.41        | 1.87         | 103.5         | 515.0         |               | 194                   | 963                   |        | 343    | 170   |
| DL                          | 38     | 1               | 88        | 137                 | .280           | 2.20        | 1.12         | 93.0          | 530.0         |               | 104                   | 593                   |        | 184    | 105   |
| DL                          | Totals | 46              | 87        | 121                 | 28.745         | 101.33      | 79.34        | 59.1          | 254.8         |               | 4,688                 | 20,219                |        | 8,298  | 3,579 |
| HL                          | 19     | 2               | 89        | 78                  | 4.966          | 9.78        | 9.93         | 35.5          | 120.0         |               | 353                   | 1,192                 |        | 624    | 211   |
| HL                          | 30     | 1               | 88        | 97                  | .996           | 4.89        | 1.99         | 106.5         | 445.0         |               | 212                   | 886                   |        | 375    | 157   |
| HL                          | 31     | 1               | 86        | 110                 | .933           | 4.89        | 1.87         | 102.0         | 460.0         |               | 190                   | 858                   |        | 337    | 152   |
| HL                          | Totals | 4               | 88        | 85                  | 6.895          | 19.56       | 13.79        | 54.8          | 212.9         |               | 755                   | 2,936                 |        | 1,336  | 520   |
| AL                          | 12     | 1               | 86        | 32                  | 4.527          | 3.56        | 4.53         | 12.0          | 30.0          |               | 54                    | 136                   |        | 96     | 24    |
| AL                          | 14     | 1               | 86        | 54                  | 3.326          | 3.56        | 3.33         | 27.0          | 60.0          |               | 90                    | 200                   |        | 159    | 35    |
| AL                          | 17     | 1               | 86        | 73                  | 2.256          | 3.56        | 4.51         | 26.5          | 85.0          |               | 120                   | 383                   |        | 212    | 68    |
| AL                          | 19     | 1               | 86        | 75                  | 1.806          | 3.56        | 3.61         | 35.5          | 105.0         |               | 128                   | 379                   |        | 227    | 67    |
| AL                          | Totals | 4               | 86        | 52                  | 11.915         | 14.22       | 15.98        | 24.5          | 68.7          |               | 392                   | 1,098                 |        | 694    | 194   |
| SN                          | 10     | 1               | 89        | 50                  | 1.992          | 1.09        |              |               |               |               |                       |                       |        |        |       |
| SN                          | 14     | 1               | 85        | 89                  | 1.016          | 1.09        |              |               |               |               |                       |                       |        |        |       |
| SN                          | 16     | 1               | 89        | 78                  | .778           | 1.09        |              |               |               |               |                       |                       |        |        |       |
| SN                          | 20     | 1               | 89        | 30                  | .498           | 1.09        |              |               |               |               |                       |                       |        |        |       |
| SN                          | 22     | 2               | 88        | 26                  | .823           | 2.17        |              |               |               |               |                       |                       |        |        |       |
| SN                          | 24     | 2               | 87        | 80                  | .692           | 2.17        | .35          | 82.0          | 370.0         |               | 28                    | 128                   |        | 50     | 23    |
| SN                          | 26     | 1               | 88        | 74                  | .295           | 1.09        |              |               |               |               |                       |                       |        |        |       |
| SN                          | Totals | 9               | 88        | 60                  | 6.094          | 9.78        | .35          | 82.0          | 370.0         |               | 28                    | 128                   |        | 50     | 23    |
| Totals                      |        | 63              | 87        | 94                  | 53.648         | 144.89      | 109.45       | 53.6          | 222.8         |               | 5,864                 | 24,381                |        | 10,378 | 4,315 |



**Legend**

- +— Area Boundary
- ..... Timber Sale Boundary
- ~ Type N Stream
- ~ Type F Stream
- ⊙ New Landing Construction
- ▨ Buffer Zone
- ⋯ Posted Stream Buffer
- Existing Surfaced Road
- ▨ New Road Construction - Unsurfaced
- - New Road Construction - Surfaced
- ⊠ Green Tree Retention Area
- T Yarding Area - Ground
- Yarding Area - Cable
- ◇ Survey Corner
- ⊠ Non-Thinnable Area

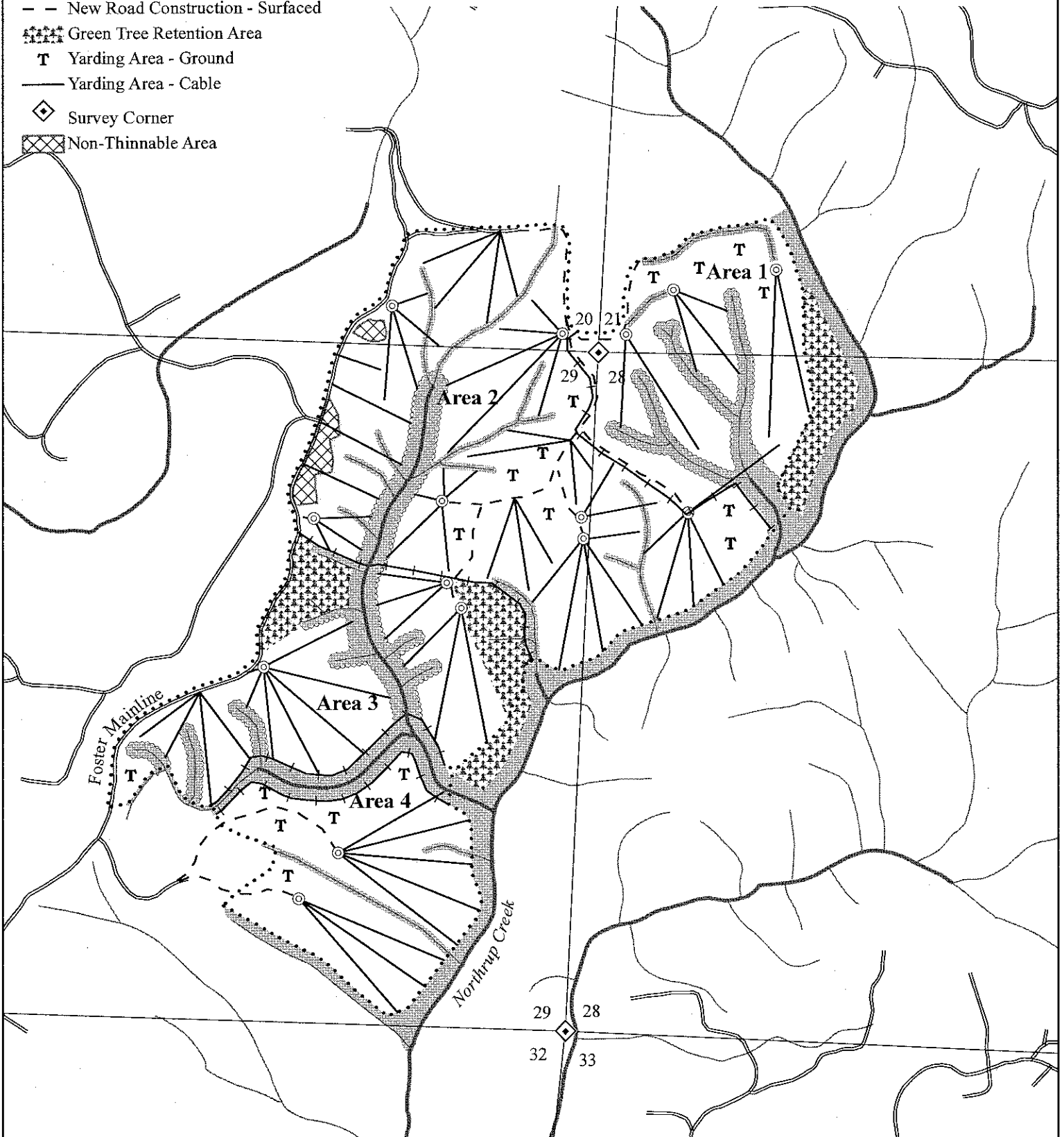
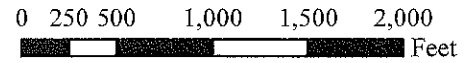
**Approximate Net Acreage:**

- Area 1 (MC) - 48 Acres
- Area 2 (PC) - 125 Acres
- Area 3 (MC) - 48 Acres
- Area 4 (PC) - 52 Acres
- Area 5 (R/W) - 11 Acres
- Total PC - 177 Acres
- Total MC - 96 Acres
- Total R/W - 11 Acres
- Total Acres - 284 Acres



OF TIMBER SALE CONTRACT NO. 341-12-26  
PORTIONS OF SECTIONS 20, 21, 28, & 29  
T7N, R6W W.M., CLATSOP COUNTY, OREGON

Approximate Scale = 1":1,000'



# Logging Plan Foster's 40

OF TIMBER SALE CONTRACT NO. 341-12-26  
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T7N, R6W W.M., CLATSOP COUNTY, OREGON

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