"STEWARDSHIP IN FORESTRY"

# Timber Sale Appraisal
# Top Ten Salvage
# Sale 341-07-89

**District:** **Forest Grove** **Date:** **April 16, 2007**

## Cost Summary

| | Conifer | Hardwood | Total |
|---|---|---|---|
| **Gross Timber Sales Value** | $409,750.00 | $0.00 | $409,750.00 |
| | | **Project Work:** | $0.00 |
| | | **Advertised Value:** | $409,750.00 |

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## Timber Description

**Location:** Portions of T3N, R6W, W.M., Tillamook County, and T2N, R5W, T3N, R5W, T3N, R6W, W.M., Washington County, Oregon.

**Stand Stocking:** 20%

| SpecieName | AvgDBH | Amortization (%) | Recovery (%) |
|---|---|---|---|
| Douglas - Fir | 18 | 0 | 98 |
| Western Hemlock / Fir | 16 | 0 | 98 |

| Volume by Grade | 2S | 3S | 4S | Total |
|---|---|---|---|---|
| Douglas - Fir | 650 | 520 | 130 | 1,300 |
| Western Hemlock / Fir | 50 | 40 | 10 | 100 |
| Total | 700 | 560 | 140 | 1,400 |

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**Comments:** Pond Values Used: 1st Quarter Calendar Year 2007 + Local Pond Values.

Western Red Cedar Stumpage = Pond Value minus Logging Cost
$911/MBF = $1,150/MBF - $239/MBF

Red Alder Stumpage = Pond Value minus Logging Cost
$451/MBF = $690/MBF - $239/MBF

Hauling costs:
$700 daily truck cost /(3 trips/day X 4 MBF/load)= $58.33/MBF

Other Costs (Profit & Risk to be added):
Paint and Brand 1,400 MBF @ $1/MBF= $1,400
TOTAL Other Costs (Profit & Risk to be added) = $1,400

Other Costs (No Profit & Risk):
20 hours of shovel time @ $110/hour = $2,200 for blocking skid roads and other clean up activities
TOTAL Other Costs (No Profit & Risk) = $2,200

Road Maintenance:
Grader Move in @ $270/1400 MBF = $0.19/MBF
Grading 16 hours @ $75/hour = $1200/1400MBF = $0.86/MBF
Total Road Maintenance = $1.05/MBF

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## Logging Conditions

**Combination#: 1**

| | | | |
|---|---|---|---|
| | Douglas - Fir | 55.00% | |
| | Western Hemlock / Fir | 55.00% | |
| **Yarding Distance** | Short (400 ft) | **Downhill Yarding:** | No |
| **Logging System:** | Track Skidder | **Process**: | Manual Falling/Delimbing |
| **Tree Size:** | Mature / Partial Cut (900 Bft/tree), 3-5 logs/MBF | | |
| **Loads / Day:** | 6.0 | **Bd. Ft / Load:** | 4,000 |
| **Cost / MBF:** | $143.35 | | |

**Machines:** Log Loader (B)
Track Skidder

**Combination#: 2**

| | | | |
|---|---|---|---|
| | Douglas - Fir | 45.00% | |
| | Western Hemlock / Fir | 45.00% | |
| **Yarding Distance** | Short (400 ft) | **Downhill Yarding:** | No |
| **Logging System:** | Cable: Small Tower <=40 | **Process**: | Manual Delimbing |
| **Tree Size:** | Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF | | |
| **Loads / Day:** | 5.0 | **Bd. Ft / Load:** | 4,000 |
| **Cost / MBF:** | $135.05 | | |

**Machines:** Log Loader (A)
Tower Yarder (Small)

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## Logging Costs

| | | | |
|---|---|---|---|
| **Operating Seasons:** | 1.00 | **Profit Risk:** | 20.00% |
| **Project Costs:** | $0.00 | **Other Costs (P/R):** | $1,400.00 |
| **Slash Disposal:** | $0.00 | **Other Costs:** | $2,200.00 |

### Miles of Road

**Road Maintenance:** $1.05

| Dirt | Rock (Contractor) | Rock (State) | Paved |
|---|---|---|---|
| 0.0 | 0.0 | 0.0 | 0.0 |

### Hauling Costs

| Species | $ / MBF | Trips/Day | MBF / Load |
|---|---|---|---|
| Douglas - Fir | $58.30 | 3.0 | 4.0 |
| Western Hemlock / Fir | $58.30 | 3.0 | 4.0 |

### Local Pond Values

| Date | Specie | Grade | Value |
|---|---|---|---|
| 4/16/07 | Douglas - Fir | 2S | $555.00 |
| 4/16/07 | Douglas - Fir | 3S | $555.00 |
| 4/16/07 | Douglas - Fir | 4S | $555.00 |
| 4/16/07 | Western Hemlock / Fir | 2S | $365.00 |
| 4/16/07 | Western Hemlock / Fir | 3S | $365.00 |
| 4/16/07 | Western Hemlock / Fir | 4S | $365.00 |

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## Logging Costs Breakdown

| Logging | Road Maint | Fire Protect | Hauling | Other P/R appl | Profit & Risk | Slash Disposal | Scaling | Other | Total |
|---|---|---|---|---|---|---|---|---|---|
| **Douglas - Fir** | | | | | | | | | |
| $139.62 | $1.07 | $3.13 | $59.50 | $1.00 | $40.86 | $0.00 | $2.00 | $1.57 | $248.75 |
| **Western Hemlock / Fir** | | | | | | | | | |
| $139.62 | $1.07 | $3.13 | $59.50 | $1.00 | $40.86 | $0.00 | $2.00 | $1.57 | $248.75 |

| Specie | Amortization | Pond Value | Stumpage | Amortized |
|---|---|---|---|---|
| Douglas - Fir | $0.00 | $555.00 | $306.25 | $0.00 |
| Western Hemlock / Fir | $0.00 | $365.00 | $116.25 | $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 |

**Unamortized**

| Specie | MBF | Value | Total |
|---|---|---|---|
| Douglas - Fir | 1,300 | $306.25 | $398,125.00 |
| Western Hemlock / Fir | 100 | $116.25 | $11,625.00 |

**Gross Timber Sale Value**

**Recovery:** $409,750.00

**Prepared by:** Karen Tilley **Phone:** 503-359-7434

TIMBER SALE SUMMARY
Top Ten Salvage
341-07-89

1. **Type of Sale:** salvage wind thrown timber, recovery, sealed bid auction

2. **Revenue Distribution:** 100% BOF, 10% Rehab Obligation, 54% Tillamook County Tax Code 56-1, 46% Washington County

3. **Sale Acreage:** Area 1 is 23 acres. Area 2 is 18 acres. Area 3 is 21 acres. Area 4 is 14 acres. Area 5 is 9 acres. Area 6 is 12 acres. Area 7 is 16 acres. Area 8 is 1.5 acres. Area 9 is 2.5 acres. Area 10 is 3 acres. All areas are salvage of wind throw. Also, additional wind thrown timber within 200 feet of existing roads shown on Exhibit "A". All acres were determined using ArcView.

4. **Volume:**

| Species | 2 Saw % | 3 Saw % | 4 Saw % | Volume |
|---|---|---|---|---|
| Douglas-fir | 50 | 40 | 10 | 1,300 MBF |
| other conifers | 50 | 40 | 10 | 100 MBF |
| hardwoods | --- | --- | --- | 0 MBF |
| Total | | | | 1,400 MBF |

5. **Cruise Data:** Volumes are based on ocular estimates.

6. **Timber Description:** Sixty to seventy year old Douglas-fir and hemlock. The average DBH is 18 inches.

7. **Topography and Logging Method:** The sale is 45% cable yarding with slopes of 35 to 50% and 55% ground based yarding with slopes of 10 to 35%. The maximum yarding distance is 400 feet slope distance.

8. **Access:** Access is from the Sunset Hwy to Salmonberry Road and from Timber to Cochran Road to Round Top Road.

9. **Projects:** None

**CRUISE REPORT**
**Top Ten Salvage**
**341-07-89**

**1. Acreage Calculation:** Area 1 is 23 acres. Area 2 is 18 acres. Area 3 is 21 acres. Area 4 is 14 acres. Area 5 is 9 acres. Area 6 is 12 acres. Area 7 is 16 acres. Area 8 is 1.5 acres. Area 9 is 2.5 acres. Area 10 is 3 acres. All areas are salvage of wind throw. Also, additional wind thrown timber within 200 feet of existing roads shown on Exhibit "A". All acres were determined using ArcView.

**2. Cruise Method:** Volumes are based on ocular estimates.

**3. Sampling Intensity:** NA

**4. Form Factors:** NA

**5. Height Standards:** NA.

**6. Diameter Standards:** NA

**7. Grading System:** Grades were assigned based on adjacent timber sale cruise information.

**8. Merchantable Top:** NA

**9. Computation Procedures:** NA

**10. Deductions:** NA

**11. Cruisers:** Volumes were estimated by various members of the marketing unit from December 2006 to February of 2007.

**12. Signatures:**

Prepared by: Karen Tilley — Karen Tilley — 3/23/07 — Date

Unit Forester: Erik Marcy — Erik Marcy — 3/23/07 — Date