



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Cost Summary East Wood Sale 341-06-55

District: Tillamook

Date: 1/9/06

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$128,364.38	\$10,457.48	\$138,821.86
		Project Work	\$0.00
		Advertised Value	\$138,821.86



Timber Sale Appraisal Timber Description East Wood Sale 341-06-55

"STEWARDSHIP IN FORESTRY"

District: Tillamook

Location: Portions of Section 21, T3S, R8W, W.M.; Tillamook County, OR.

Date: 1/9/06

Stand Stocking: 60%

Species	Avg. DBH	Amortized%	Recovery%
Douglas - Fir	13	0	95
Alder (Red)	12	0	95

Volume by Grade	Douglas - Fir	Alder (Red)	Total
2S	19	6	25
3S	323	7	330
4S	95	31	126
Total	437	44	481

Comments: Pond Values Used: 4th Quarter Calendar Year 2005.

Hauling Costs Used: System currently uses hauling costs of \$460 daily truck cost. Additional hauling costs added in Other Costs (No P&R) to make equivalent to \$700 daily truck cost.

Other Costs (Profit & Risk added): \$962.

Brand and Paint: $\$2.00/\text{MBF} \times 481\text{MBF} = \962 .

Other Costs (No Profit & Risk added): \$22,822.09.

Additional Hauling Costs: $\$36.80/\text{MBF} \times 481\text{MBF} = \$17,700.80$

Maintenance on USFS #8377 Road

$481\text{MBF} \times \$1.44\text{MBF}/\text{Mile} \times .60 \text{ miles of use} = \415.58

Road Use Permit Fee

$481\text{MBF} \times 0.675\text{MBF}/\text{Mile} \times .60 \text{ miles of use} = \194.81

Pit Run for approaches/landings (private source) = \$4,368

$\$12.48/\text{CY} \times 50 \text{ CY} = \624 (unsurfaced spur)

$\$12.48/\text{CY} \times 50 \text{ CY} = \$624 \times 6 \text{ landings} = \$3,744$

Remove 18" x 34' culvert = \$142.90

Cedar Stumpage Value: $\$825/\text{MBF} - \$280/\text{MBF}$ (logging cost) = $\$545/\text{MBF}$



Timber Sale Appraisal Logging Conditions East Wood Sale 341-06-55

"STEWARDSHIP IN FORESTRY"

Combination#: 1	Douglas - Fir	70.00%	
	Alder (Red)	70.00%	
Yarding Distance:	Short (400 ft)		Downhill Yarding: Yes
Logging System:	Track Skidder		Process: Manual Falling/Delimiting
Tree Size:	Small / Thinning 9in (70 Bft/tree), 20+ logs/MBF		
Loads/Day:	7		Bd. Ft./Load: 3,300
Cost/MBF:	\$141.36		
Machines:			
	Log Loader (B)		
	Track Skidder		
Combination#: 2	Douglas - Fir	30.00%	
	Alder (Red)	30.00%	
Yarding Distance:	Medium (800 ft)		Downhill Yarding: Yes
Logging System:	Track Skidder		Process: Manual Falling/Delimiting
Tree Size:	Small / Thinning 9in (70 Bft/tree), 20+ logs/MBF		
Loads/Day:	5		Bd. Ft./Load: 3,300
Cost/MBF:	\$197.91		
Machines:			
	Log Loader (B)		
	Track Skidder		



Timber Sale Appraisal

Logging Costs

East Wood

Sale 341-06-55

"STEWARDSHIP IN FORESTRY"

Date: 1/9/06

Operating Seasons: 2.0

Profit & Risk: 12%

Project Costs: \$0

Other Costs (P/R): \$962

Slash Disposal: \$0

Other Costs: \$22,822

Road Maintenance: \$0.00

Miles of Road			
Dirt	Rock (Contractor)	Rock (State)	Paved
0.0	0.0	0.0	0.0

Hauling Costs

Species	\$/MBF	Trips/Day	MBF/Load
Douglas - Fir	\$0.00	2.0	3.3
Alder (Red)	\$0.00	2.0	3.0



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Logging Costs Breakdown East Wood Sale 341-06-55

Costs	Douglas - Fir	Alder (Red)
Logging	158.32	158.32
Road Maintenance	0.00	0.00
Fire Protection	11.27	11.27
Hauling	69.16	80.84
Other (P/R appl.)	2.00	2.00
Profit & Risk	28.89	30.29
Slash Disposal	0.00	0.00
Scaling	2.00	0.00
Other	47.45	47.45
Total	319.09	330.17

Amortization	0.00	0.00
Pond Value	612.83	567.84
Stumpage	293.74	237.67
Amortized	0.00	0.00



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Summary East Wood Sale 341-06-55

Amortized

	Douglas - Fir	Alder (Red)
MBF	0.00	0.00
Value	0.00	0.00
Total	0.00	0.00

Unamortized

	Douglas - Fir	Alder (Red)
MBF	437.00	44.00
Value	293.74	237.67
Total	128,364.38	10,457.48

Gross Timber Sale Value

Recovery \$138,821.86

Prepared by: Ed Wallmark

Date: 1/9/06

District: Tillamook

Phone: (503) 842-2545



OREGON DEPARTMENT OF FORESTRY CRUISE REPORT

East Wood

"STEWARDSHIP IN FORESTRY"

1. **Type of Sale:** Regeneration harvest – Recovery
2. **Legal Description:** Portions of Section 21, T3S, R8W, W.M., Tillamook County, Oregon.
3. **Sale Acreage:** The sale boundary was plotted on a digital orthophotograph and the acreage was calculated with GIS.

Area	Harvest Type	Sale	Net
1	Modified Clearcut	43	41
Total		43	41

Sale Acres

Area within the Timber Sale Boundary signs

Net acres for calculating the advertised volume

Sale acres, less green tree retention, less roads, and less riparian areas classified as Special Stewardship in LMCS inside the sale boundary.

4. **Cruising Procedures:**

- A. **Cruise Method:** Cruise lines and plots were placed on a north/south grid spaced at 300' intervals and an east/west grid spaced at 200' with variable radius full point plots. A total of 30 plots were taken. On every plot, tree count by species and diameter was recorded, and alder was graded. On every other plot, the Douglas-fir were also graded, and Douglas-fir form was measured. Diameters were recorded to the nearest 1", heights to the nearest foot. Diameters were taken at 4.5' above the ground on the uphill side. Conifers with diameters of 8" or larger and hardwoods with diameters of 9" or larger were recorded. The cruise had a coefficient of variation of 46.1 and a SE% of 8.6 for the net board feet/acre.
- B. **Plot size:** All plots were variable radius full point plots. For the timber sale area, a BAF of 27.78 was used for Douglas-fir. For alder and other conifers a BAF of 20 was used. The point of tree observation was 4.5 feet.
- C. **Grading System:** Tree heights were measured to a 6" merchantable top for conifers and 8" for hardwoods. Douglas-fir was graded using Columbia River rules favoring a 40' log. Alder was graded to the top end diameter for determining sort while still favoring a 40' log. 2S equals 12" and greater, 3S equals 10" and 11", and 4S equals 8" and 9".

D. **Defect and Breakage:** A 5% defect and breakage reduction was applied to conifers and a 10% reduction to hardwood volumes.

E. **Cruiser Names / Dates:** Ed Wallmark and Don Everingham, September 2005.

5. **Computation Procedures:** Plot data was entered into SuperAce for computation of stand tables. Take and leave trees were determined and SuperAce was rerun to compute basal area, V-BAR, stand tables and diameters. This data was entered into a volume summary worksheet to compute sale volumes.
6. **Timber Description:** The sale contains 42 year old Douglas-fir with symptoms of Swiss Needle Cast and scattered patches of red alder concentrated mainly in riparian areas. Approximately sixteen acres of this sale was previously commercial thinned in 1996 to a BA of 110-130 an acre.
7. **Revenue Distribution:**
 - 100% FDF
 - Tax Code: 8
 - Deed Number: 186
 - Rehabilitation Obligated: None
8. **Appendices:**
 - Volume Summary
 - Logging Plan



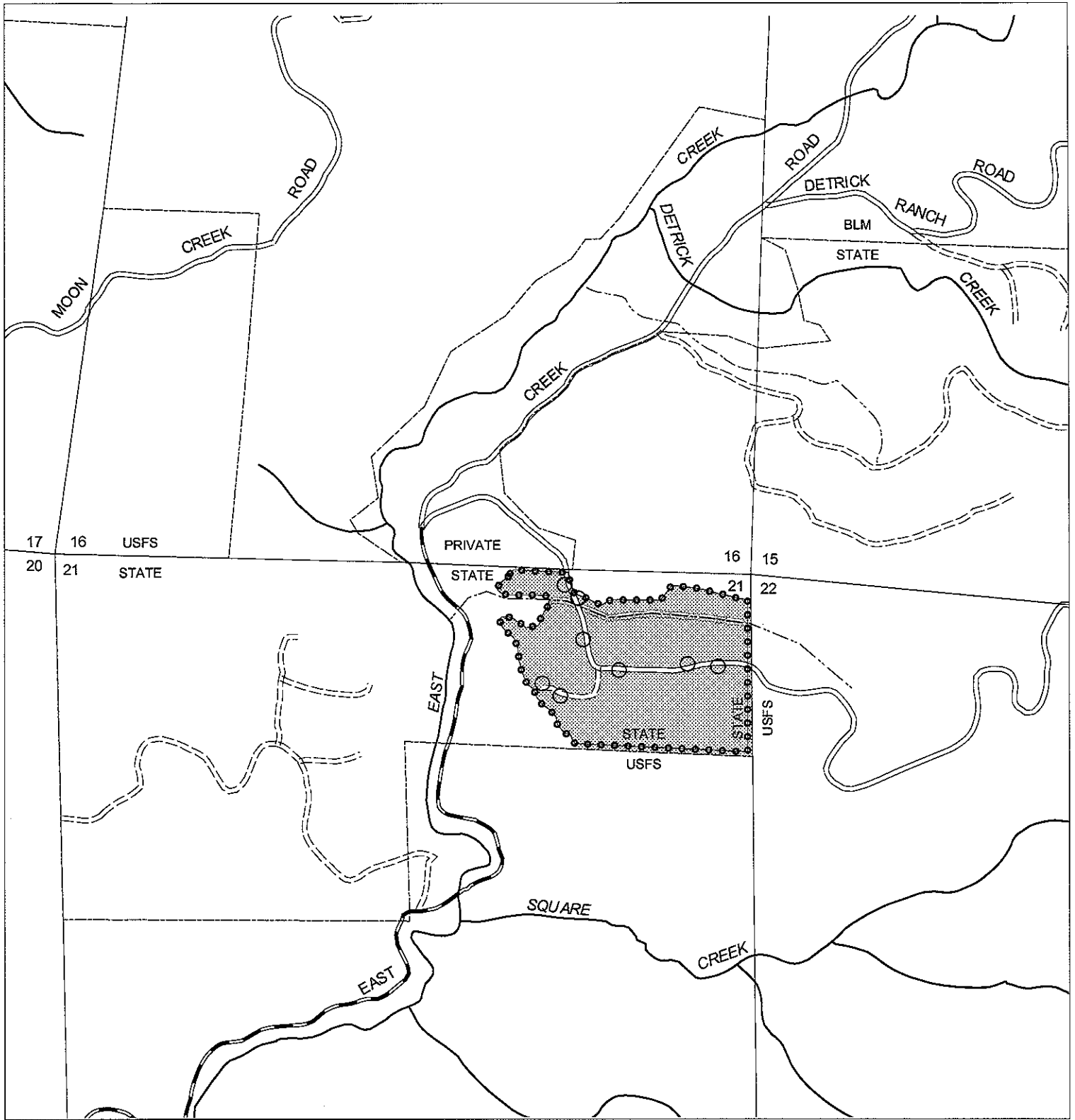
"STEWARDSHIP IN FORESTRY"

East Wood

Volume Summary

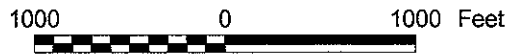
Area I							
41 acres							
SPECIES	QMD	Basal Area Per Acre	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	13	111	101	11.2	460	5%	437
Alder	12	28	43	1.2	49	10%	44
TOTAL					509		481

TOTAL SALE VOLUME			
SPECIES	MBF	D&B	Net Vol. (MBF)
Douglas-fir	460	5%	437
Alder	49	10%	44
TOTAL	509		481



LOGGING PLAN
 Timber Sale Contract No. 341-06-55
 East Wood
 Portions of Section 21, T3S, R8W, W. M.
 Tillamook County, Oregon

Type of Area Operation	Acres	
	Gross	Net
1 Modified clearcut	43	41



09-23-2005
 This product is for informational use and may not have been prepared for, or suitable for legal, engineering, or surveying purposes.

- Landing
- ▲ Domestic water supply
- ⊗ Blocked
- Cable yarding
- ▨ Ground yarding
- ▩ Helicopter yarding
- ▧ Downhill yarding
- ▤ Buffer
- ▦ Non-required thinning
- Area boundary
- ⋯ Sale boundary
- Ownership boundary
- Perennial Type-F stream
- Perennial Type-N stream
- ==== Surfaced road
- ==== Unsurfaced road
- State highway
- County road
- ② Non-project road
- Swing road
- Abandoned road
- ⋯ OHV trail
- ⋯ Non-motorized trail
- T T Transmission line