



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal  
C-Line Express  
Sale 343-12-155

District: Forest Grove

Date: April 11, 2012

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**cost summary**

	<b>Conifer</b>	<b>Hardwood</b>	<b>Total</b>
<b>Gross Timber Sale Value</b>	\$49,373.10	\$0.00	\$49,373.10
		<b>Project Work:</b>	\$0.00
		<b>Advertised Value:</b>	\$49,373.10



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**timber description**

Location: Portions of Section 17, T1N, R6W, W.M., Tillamook County, Oregon.

Stand Stocking: 20%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	16	0	98

Volume by Grade	2S	3S	4S	Total
Douglas - Fir	63	126	21	210
Total	63	126	21	210



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comments: Pond Values Used: Local Pond Values.

Western Hemlock and Other Conifers Stumpage Price = Pond Value  
minus Logging Cost  
 $\$172.61/\text{MBF} = \$430/\text{MBF} - \$257.39/\text{MBF}$

Western redcedar and Other Cedars Stumpage Price = Pond Value  
minus Logging Cost  
 $\$687.61/\text{MBF} = \$945/\text{MBF} - \$257.39/\text{MBF}$

Red alder and Other Hardwoods Stumpage Price = Pond Value minus  
Logging Cost  
 $\$292.61/\text{MBF} = \$550/\text{MBF} - \$257.39/\text{MBF}$

SCALING COST ALLOWANCE = \$5.00/MBF

FUEL COST ALLOWANCE = \$4.00/Gallon

HAULING COST ALLOWANCE

Hauling costs equivalent to \$780 daily truck cost.

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

Brand and Paint:  $\$1/\text{MBF} \times 210 \text{ MBF} = \$210$

Non-required operator spur:

10 stations @ \$150/sta. = \$1,500

TOTAL Other Costs (with Profit & Risk to be added) = \$1,710

Other Costs (No Profit & Risk added):

Machine time to block/waterbar, skid trails, and sort fire wood:

7.5 Hours @ \$150/hr. = \$1,125

Equipment Cleaning: 3 Machines @ \$1000/Machine = \$3000

TOTAL Other Costs (No Profit & Risk added) = \$4,125



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**logging conditions**

combination#:	1	Douglas - Fir	100.00%
yarding distance:	Medium (800 ft)		downhill yarding: No
logging system:	Shovel		Process: Manual Delimiting
tree size:	Mature / Partial Cut (900 Bft/tree),	3-5 logs/MBF	
loads / day:	4.0	bd. ft / load:	4,900
cost / mbf:	\$127.79		
machines:	Shovel Logger		



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**logging costs**

Operating Seasons:	1.00	Profit Risk:	15.00%
Project Costs:	\$0.00	Other Costs (P/R):	\$1,710.00
Slash Disposal:	\$0.00	Other Costs:	\$4,125.00

**Miles of Road**

Road Maintenance: \$0.00

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

**Hauling Costs**

Species	\$ / MBF	Trips/Day	MBF / Load
Douglas - Fir	\$44.70	3.0	4.8

**Local Pond Values**

Date	Specie	Grade	Value
4/11/12	Douglas - Fir	2S	\$515.00
4/11/12	Douglas - Fir	3S	\$485.00
4/11/12	Douglas - Fir	4S	\$470.00



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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>									
\$127.79	\$0.00	\$20.88	\$45.58	\$8.14	\$30.36	\$0.00	\$5.00	\$19.64	\$257.39

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$492.50	\$235.11	\$0.00



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summary

Amortized

Specie	MBF	Value	Total
Douglas - Fir	0	\$0.00	\$0.00

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	210	\$235.11	\$49,373.10

**Gross Timber Sale Value**

Recovery: \$49,373.10

Prepared by: Joseph Koch

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## Residual Stand Specifications

C-Line Express  
343-12-155

### AREA 1

Residual QMD assumption (from cruise leave tree information) - 18 inches.

Target Relative Density - 31

	Minimum	Target	Maximum
<b>Relative Density</b>	28	31	33
<b>Basal Area</b>	120	130	140
<b>Trees per Acre</b>	68	74	79

$$RD = BA / \sqrt{DBH}$$

$$BA = \sqrt{DBH} (RD)$$

$$BA/tree = (\pi r^2) / (144)$$

$$TPA = (BA/acre) / (BA/tree)$$