



"STEWARDSHIP IN FORESTRY"

# **Timber Sale Appraisal Cost Summary JoJo Sale 341-02-13**

**District: Forest Grove**

**Date: 5/11/01**

	<b>Conifer</b>	<b>Hardwood</b>	<b>Total</b>
<b>Gross Timber Sale Value</b>	\$1,901,641.00	\$1,949.16	\$1,903,590.16
	<b>Project Work</b>		\$0.00
	<b>Advertised Value</b>		\$1,903,590.16



"STEWARDSHIP IN FORESTRY"

# Timber Sale Appraisal

## Timber Description

### JoJo

### Sale 341-02-13

District: Forest Grove

Location: Portions of Section 7, T3N, R4W, and Section 1, T3N, R5W, WM, Washington County

Date: 5/11/01

Stand Stocking: 80%

Species	Avg. DBH	Amortized%	Recovery%
Douglas - Fir	17	0	99
Alder (Red)	20	0	97

Volume by Grade	Douglas - Fir	Alder (Red)	Total
2S	2,857	0	2,857
3S	1,940	6	1,946
4S	103	0	103
Total	4,900	6	4,906

Comments: Pond Values Used: 1st Quarter 2001

Johnson Road easement road use fee \$737.73

24 hours of shovel time @ \$110/hr = \$2,640

top 240 trees @ \$55/tree = \$13,200

10,200 ft of dozer fire trails @ \$0.75/ ft = \$7,650

1600 ft of hand fire trail @ \$1.25/ft = \$2,000

3.5 ac slash push back @ \$220/ac = \$770

brand and paint 4,906 MBF @ \$1/MBF = \$4,906

24 hours of tractor time for opening existing roads @ \$96/hr = \$2,304



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# Timber Sale Appraisal

## Logging Conditions

### JoJo

### Sale 341-02-13

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<b>Combination#:</b> 1	Douglas - Fir	20.00%	
	Alder (Red)	20.00%	
<b>Yarding Distance:</b>	Medium (800 ft)		<b>Downhill Yarding</b> No
<b>Logging System:</b>	Cable: Medium Tower >40 - <70		<b>Process:</b> Manual Delimbing
<b>Tree Size:</b>	Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF		
<b>Loads/Day:</b>	10		<b>Bd. Ft./Load:</b> 4,000
<b>Cost/MBF:</b>	\$82.92		
<b>Machines:</b>			
	Log Loader (A)		
	Tower Yarder (Medium)		
<b>Combination#:</b> 2	Douglas - Fir	80.00%	
	Alder (Red)	80.00%	
<b>Yarding Distance:</b>	Short (400 ft)		<b>Downhill Yarding</b> No
<b>Logging System:</b>	Track Skidder		<b>Process:</b> Manual Falling/Delimbing
<b>Tree Size:</b>	Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF		
<b>Loads/Day:</b>	12		<b>Bd. Ft./Load:</b> 4,000
<b>Cost/MBF:</b>	\$68.03		
<b>Machines:</b>			
	Log Loader (B)		
	Track Skidder		



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# Timber Sale Appraisal

## Logging Costs

### JoJo

### Sale 341-02-13

Date: 5/11/01

Operating Seasons: 2.0

Profit & Risk: 10%

Project Costs: \$0

Other Costs (P/R): \$27,756

Slash Disposal: \$0

Other Costs: \$6,452

Miles of Road			
Dirt	Rock (Contractor)	Rock (State)	Paved
0.0	2.0	0.0	0.0

Road Maintenance: \$0.00

#### Hauling Costs

Species	\$/MBF	Trips/Day	MBF/Load
Douglas - Fir	\$0.00	3.0	4.0
Alder (Red)	\$0.00	2.0	3.0



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# **Timber Sale Appraisal** **Logging Costs Breakdown** **JoJo** **Sale 341-02-13**

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<b>Costs</b>	<b>Douglas - Fir</b>	<b>Alder (Red)</b>
<b>Logging</b>	71.01	71.01
<b>Road Maintenance</b>	1.05	1.07
<b>Fire Protection</b>	1.10	1.10
<b>Hauling</b>	38.74	79.18
<b>Other (P/R appl.)</b>	5.66	5.66
<b>Profit &amp; Risk</b>	11.76	15.80
<b>Slash Disposal</b>	0.00	0.00
<b>Scaling</b>	0.00	0.00
<b>Other</b>	1.32	1.32
<b>Total</b>	130.64	175.14

<b>Amortization</b>	0.00	0.00
<b>Pond Value</b>	518.73	500.00
<b>Stumpage</b>	388.09	324.86
<b>Amortized</b>	0.00	0.00



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# Timber Sale Appraisal Summary JoJo Sale 341-02-13

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## 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	4,900.00	6.00
Value	388.09	324.86
Total	1,901,641.00	1,949.16

## Gross Timber Sale Value

**Cash \$1,903,590.16**

Prepared by: Karen Tilley

Date: 5/11/01

District: Forest Grove

Phone: (503) 359-7434

**TIMBER SALE SUMMARY**  
**JoJo**

1. **Type of Sale:** clearcut, cash, sealed bid auction
2. **Revenue Distribution:** 100% BOF, Washington County
3. **Sale Acreage:** Area I is 71 acres and Area II is 48 acres determined by traverse.
4. **Volume:**

Species	2 Saw%	3 Saw%	4 Saw%	Volume
Douglas-fir	58	40	2	4,900 MBF
Hardwoods	0	100	0	6 MBF
5. **Cruise Data:** The sale was variable plot cruised using a 40 BAF and full plots. The sale was cruised in March 2001. A top cruise diameter of 7 inches or 25% of DBH outside bark was used. Cruise statistics: CV 40.6% SE 5.3%.
6. **Timber Description:** The sale areas are well stocked stands of Douglas-fir. The age is 65 years old. The average DBH is 17 inches. Average volume per acre is 42.0 MBF Douglas-fir.
7. **Topography and Logging Method:** The sale is 80% tractor and 20% cable. Slopes range from 10% to 40%.

A ground based alternative to cable logging will be considered. A temporary stream crossing will be required. It must be built during the appropriate period for in stream work (July 1 to August 31). The area will be logged only in summer. Approximately 2 acres will require line pulling on 40% slopes. Maximum ground yarding distance is approximately 1500 feet.
8. **Access:** Access is via Hwy 47 to Johnson Road.
9. **Projects:** None

**CRUISE REPORT**  
**JoJo**

1. **Acreage Calculation:** Area I is 71 acres and Area II is 48 acres determined by traverse.
2. **Cruise Method:** The sale was variable plot cruised using a 40 BAF and full plots.
3. **Sampling Intensity:**

Area I, II	Estimated	Actual
CV	40.0%	40.6%
SE	5.0%	5.3%
No. of Plots	64	58
4. **Form Factors:** Each tree was measured for form factor using a relaskop with a form point of 16 feet.
5. **Height Standards:** Conifer and hardwood merchantable heights were estimated to the nearest foot.
6. **Diameter Standards:** Diameters were measured outside bark at breast height to the nearest inch.
7. **Grading System:** All trees were graded favoring 40 foot segments.
8. **Merchantable Top:** Conifer and hardwood merchantable tops were measured to 7 inches and 9 inches, respectively, or 25% of DBH outside bark.
9. **Computation Procedures:** Volumes were computed using the Super Ace 98 program.
10. **Deductions:** Two percent of the conifer and the hardwood volume was subtracted from the computed volumes to account for hidden defect and breakage.
11. **Cruisers:** The sale was cruised by Karen Tilley in March, 2001.
12. **Signatures:**

Preparer: 

Karen Tilley	Date

Unit Forester:

Erik Marcy	Date