



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal  
Natural Selection  
Sale FG-341-2022-W00520-01

District: Forest Grove

Date: June 28, 2021

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**Cost Summary**

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$859,296.50	\$0.00	\$859,296.50
		Project Work:	\$0.00
		Advertised Value:	\$859,296.50



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**Timber Description**

Location:

Stand Stocking: 20%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	23	0	98
Poles / Pilings - DF	23	0	98

Volume by Grade	2S	3S	Long Poles	Short Poles	Total
Douglas - Fir	135	15	0	0	150
Poles / Pilings - DF	0	0	655	195	850
Total	135	15	655	195	1,000

**Comments:** Pond Values Used: Local Pond Values, May 2021.

Western Hemlock and Other Conifers Stumpage Price = Pond Value minus Logging Cost:  
 $\$390.43/\text{MBF} = \$611/\text{MBF} - \$220.57/\text{MBF}$

Western redcedar and Other Cedars Stumpage Price = Pond Value minus Logging Cost:  
 $\$958.43/\text{MBF} = \$1,179/\text{MBF} - \$220.57/\text{MBF}$

Red Alder and Other Hardwoods Stumpage Price = Pond Value minus Logging Cost:  
 $\$476.43/\text{MBF} = \$697/\text{MBF} - \$220.57/\text{MBF}$

BRANDING AND PAINTING COST ALLOWANCE = \$2.00/MBF

FUEL COST ALLOWANCE = \$3.00/Gallon

HAULING COST ALLOWANCE

Hauling costs equivalent to \$950 daily truck cost.

Other Costs (with Profit & Risk to be added): None

Other Costs (No Profit & Risk added):

Machine Time to Block/Waterbar Roads, and Skid Trails:

20 hours x \$150/hour = \$3,000

Machine Time to Pile Landing Slash:

10 hours x \$150/hour = \$1,500

Equipment Cleaning: 3 pieces x \$1,000/Piece = \$3,000

TOTAL Other Costs (No Profit & Risk added) = \$7,500

ROAD MAINTENANCE (Includes: Move-in, Grading, Rolling and Spot Rocking):

Move-in = \$1,938.75

General Road Maintenance: 2.55 miles X \$2,085.53/mile = \$5,318.10

TOTAL Road Maintenance: \$7,256.85 / 1,000 MBF = \$7.25/MBF



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**Logging Conditions**

<b>Combination#:</b> 1	Douglas - Fir	100.00%
	Poles / Pilings - DF	100.00%
<b>Logging System:</b>	Shovel	<b>Process:</b> Manual Delimbing
<b>yarding distance:</b>	Short (400 ft)	<b>downhill yarding:</b> No
<b>tree size:</b>	Mature / Partial Cut (900 Bft/tree), 3-5 logs/MBF	
<b>loads / day:</b>	8	<b>bd. ft / load:</b> 5000
<b>cost / mbf:</b>	\$83.19	
<b>machines:</b>	Shovel Logger	

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**Date: June 28, 2021**

## Logging Costs

<b>Operating Seasons:</b> 1.00	<b>Profit Risk:</b> 10%
<b>Project Costs:</b> \$0.00	<b>Other Costs (P/R):</b> \$0.00
<b>Slash Disposal:</b> \$0.00	<b>Other Costs:</b> \$7,500.00

**Miles of Road**

**Road Maintenance:** \$7.25

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	5.0
Poles / Pilings - DF	\$0.00	1.0	6.8



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## Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
<b>Douglas - Fir</b>									
\$83.19	\$7.40	\$4.39	\$96.90	\$0.00	\$19.19	\$0.00	\$2.00	\$7.50	\$220.57
<b>Poles / Pilings - DF</b>									
\$83.19	\$7.40	\$4.39	\$142.50	\$0.00	\$23.75	\$0.00	\$2.00	\$7.50	\$270.73

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$725.00	\$504.43	\$0.00
Poles / Pilings - DF	\$0.00	\$1,192.65	\$921.92	\$0.00



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**Summary**

**Amortized**

Specie	MBF	Value	Total
Douglas - Fir	0	\$0.00	\$0.00
Poles / Pilings - DF	0	\$0.00	\$0.00

**Unamortized**

Specie	MBF	Value	Total
Douglas - Fir	150	\$504.43	\$75,664.50
Poles / Pilings - DF	850	\$921.92	\$783,632.00

**Gross Timber Sale Value**

**Recovery:** \$859,296.50

**Prepared By:** Mark Savage

**Phone:** 503-359-7437

**TIMBER SALE SUMMARY / CRUISE REPORT**  
**Natural Selection**  
**#FG-341-2022-W00520-01**

1. **Location:** Portions of Sections 3 and 10, T3N, R6W, W.M., Tillamook County, Oregon.
2. **Type of Sale:** This timber sale is 135 acres of Light Partial Cut (PC-L), targeting pole/piling quality trees for removal. The timber will be sold on a recovery basis at a sealed bid auction.
3. **Revenue Distribution:** 100% BOF, 100% Tillamook County, Tax Code 56-1.
4. **Sale Acreage:** Acres are net of stream buffers and road prisms. Acreage was determined using ESRI ArcMap GIS software.
5. **Cruise/Volume Estimates:** Stand parameters and volume estimates are based on data from ODF's Stand Level Inventory system, nearby cruise information, and information from previous pole sales. Pole sized timber in this stand should yield an average of about 1 MBF per stem. Contract standards are to remove a total volume of 0.8 – 1.2 MMBF. This represents an average of 6 to 9 trees per acre with an estimated average net per acre Douglas-fir take volume of 6 to 9 MBF.
6. **Timber Description:** The Timber Sale Area consists of a well stocked 85 year-old stand of Douglas-fir. It has approximately 280 square feet of basal area on about 150 trees per acre. The average DBH of DF trees larger than 8" is approximately 23". Standing volume is approximately 63.2 MBF per acre.

7. **Volume Summary:**

SPECIES		Long Pole	Short Pole	2 SAW	3 SAW	TOTAL
Douglas-fir	Cruise Volume	668	199	138	15	1,020
	Hidden D&B (2%)	(13)	(4)	(3)	(0)	(20)
	<b>NET TOTAL</b>	655	195	135	15	1,000
	% of Total	65	20	13	2	

8. **Topography and Logging Method:** Slopes within the sale areas range from 5% to 40%, but are generally less than 35%, and variable in aspect. The timber sale is 100% ground-based yarding. The average horizontal skid trail length is approximately 300 feet and the maximum is approximately 500 feet.
9. **Access:** All access to the Timber Sale Area is on surfaced all-weather roads. From Forest Grove, travel north on Highway 47 through Banks then merge onto Highway 26 westbound and continue for approximately 20 miles. Between the mile markers 31 and 32, on Highway 26, turn left onto Salmonberry Road. Follow Salmonberry Road for approximately 0.1 miles to access the northern portion of the Timber Sale Area.



# **VOLUME SUMMARY**

(Shown in MBF)

**Natural Selection**

**FG-341-2022-W00520-01**

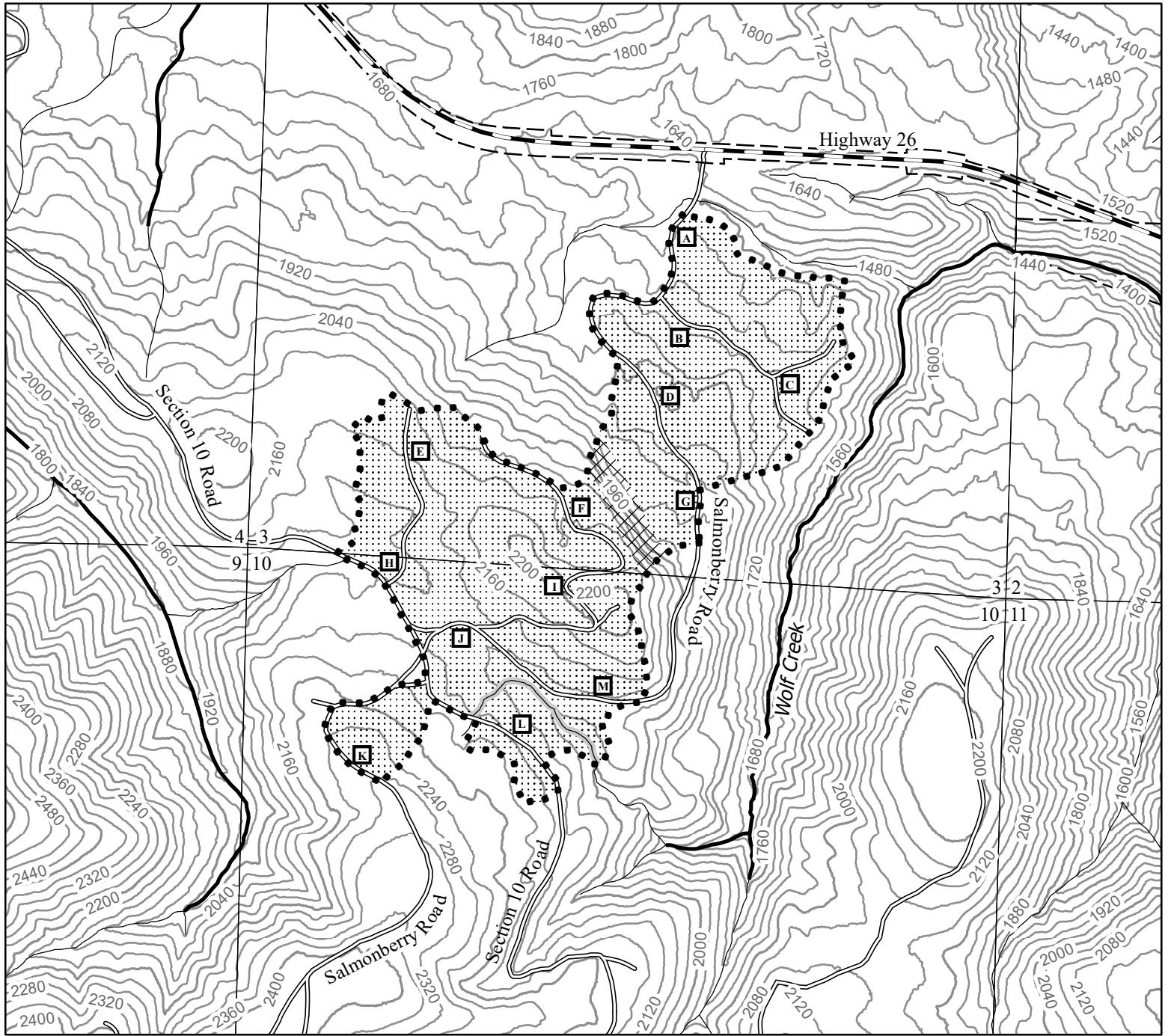
**June 2021**

## **Timber Sale Area: PC-L (135 ACRES)**

<b>SPECIES</b>		<b>Long Pole</b>	<b>Short Pole</b>	<b>2 SAW</b>	<b>3 SAW</b>	<b>TOTAL</b>
Douglas-fir	Cruise Volume	668	199	138	15	1,020
	Hidden D&B (2%)	(13)	(4)	(3)	(0)	(20)
	<b>NET TOTAL</b>	655	195	135	15	1,000
	% of Total	65	20	13	2	

## **SALE TOTAL**

<b>SPECIES</b>	<b>Long Pole</b>	<b>Short Pole</b>	<b>2 SAW</b>	<b>3 SAW</b>	<b>TOTAL</b>
Douglas-fir	655	195	135	15	1,000
Total	655	195	135	15	1,000



## LEGEND

- • • Timber Sale Boundary
- ODF Ownership Boundary
- Highway
- Surfaced Road
- Type-F Stream
- Type-N Stream
- Stream Buffer
- × × × Thinning Optional Area
- • • Tractor Yarding Area
- Tractor Landing
- Section Lines
- 40 Foot Contour Band
- 200 Foot Contour Band

## LOGGING PLAN

FOR TIMBER SALE CONTRACT #FG-341-2022-W00520-01  
NATURAL SELECTION  
PORTIONS OF SECTIONS 3, & 10, T3N, R6W, W.M.,  
TILLAMOOK COUNTY, OREGON

Forest Grove District GIS  
June, 2021

This product is for informational use and may not be  
suitable for legal, engineering, or surveying purposes.



APPROXIMATE NET ACRES

	TRACTOR	CABLE
TOTAL	135	0

1:12,000

1 inch = 1,000 feet

