

# Sale WL-341-2020-W00339-01

District: Western Lane Date: November 20, 2019

## **Cost Summary**

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$159,723.99	\$159,723.99 \$11,180.16 \$1	
		Project Work:	(\$19,212.00)
		Advertised Value:	\$151,692.15

1/08/20



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## **Timber Description**

Location: Sec 9,16 of T24S R11W

Stand Stocking: 60%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	19	0	98
Western Hemlock / Fir	20	0	98
Alder (Red)	15	0	97

Volume by Grade	2\$	3S	<b>4</b> S	Camprun	Total
Douglas - Fir	225	156	66	0	447
Western Hemlock / Fir	49	9	2	0	60
Alder (Red)	0	0	0	48	48
Total	274	165	68	48	555

**Comments:** Pond Values Used: Local Pond Values, November 2019

Douglas-fir Stumpage Price/MBF = \$323.57/MBF Douglas-fir Stumpage Price/Ton = \$43.73/Ton

Western Red Cedar and Other Cedars Stumpage Price/MBF = Pond Value minus Logging Cost:

650.84/MBF = 975/MBF - 324.16/MBF

Western Red Cedar and Other Cedars Stumpage Price/Ton = \$125.65/Ton

Western Hemlock and Other Conifer Stumpage Price/MBF = Pond Value minus Logging Cost:

\$251.47/MBF = \$575.63/MBF - \$324.16/MBF

Western Hemlock and Other Conifer Stumpage Price/Ton = \$32.66/Ton

Red alder Stumpage Price/MBF = \$232.92/MBF Red alder Stumpage Price/Ton = \$29.86/Ton

Hardwood Pulp Stumpage Price/Ton = \$2.00/Ton

Confier pulp Stumpage Price/Ton = \$2.00/Ton

Branding and Painting = \$2.00/MBF

Fuel Cost Allowance = \$3.00/gallon

Hauling Cost Allowance = equivalent to \$900 daily truck cost.

Other Cost(With Profit and Risk to be added): None.

Other Cost (No Profit and Risk added): Final Road Maintenance = \$6,883

Total other cost (No Profit and Risk added): \$6,883



#### Sale WL-341-2020-W00339-01

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#### **Logging Conditions**

Combination#: 1 Douglas - Fir 60.69%

Western Hemlock / Fir 51.67% Alder (Red) 94.79%

Logging System: Shovel Process: Stroke Delimber

yarding distance: Medium (800 ft) downhill yarding: No

tree size: Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF

loads / day: 6 bd. ft / load: 3800

**cost / mbf:** \$139.12

machines: Stroke Delimber (B)

Combination#: 2 Douglas - Fir 39.31%

Western Hemlock / Fir 48.33% Alder (Red) 5.21%

Logging System: Wheel Skidder Process: Manual Delimbing

yarding distance: Long (1,500 ft) downhill yarding: No

tree size: Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF

loads / day: 7 bd. ft / load: 3800

**cost / mbf:** \$119.25

machines: Feller Buncher w/ Delimber



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## **Logging Costs**

**Operating Seasons:** 1.00

Profit Risk: 16%

**Project Costs:** \$19,212.00

Other Costs (P/R): \$0.00

Slash Disposal: \$0.00

Other Costs: \$6,883.00

#### Miles of Road

Road Maintenance:

\$0.00

Dirt	Rock (Contractor)	Rock (State)	Paved
0.0	1.0	0.0	0.0

#### **Hauling Costs**

Species	\$/MBF	Trips/Day	MBF / Load
Douglas - Fir	\$0.00	2.0	3.8
Western Hemlock / Fir	\$0.00	3.0	3.8
Alder (Red)	\$0.00	3.0	3.5



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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
Douglas -	Fir								
\$131.31	\$1.04	\$7.91	\$127.50	\$0.00	\$42.84	\$0.00	\$2.00	\$12.40	\$325.00
Western H	Western Hemlock / Fir								
\$129.52	\$1.04	\$7.91	\$85.00	\$0.00	\$35.76	\$0.00	\$2.00	\$12.40	\$273.63
Alder (Red	l)								
\$138.09	\$1.05	\$7.91	\$93.19	\$0.00	\$38.44	\$0.00	\$2.00	\$12.40	\$293.08

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$648.57	\$323.57	\$0.00
Western Hemlock / Fir	\$0.00	\$525.10	\$251.47	\$0.00
Alder (Red)	\$0.00	\$526.00	\$232.92	\$0.00



# Timber Sale Appraisal Millicoma Flats 2 Sale WL-341-2020-W00339-01

District: Western Lane Date: November 20, 2019

#### **Summary**

#### Amortized

Specie	MBF	Value	Total
Douglas - Fir	0	\$0.00	\$0.00
Western Hemlock / Fir	0	\$0.00	\$0.00
Alder (Red)	0	\$0.00	\$0.00

#### Unamortized

Specie	MBF	Value	Total	
Douglas - Fir	447	\$323.57	\$144,635.79	
Western Hemlock / Fir	60	\$251.47	\$15,088.20	
Alder (Red)	48	\$232.92	\$11,180.16	

#### **Gross Timber Sale Value**

**Recovery:** \$170,904.15

Prepared By: Ross Huffman Phone: 541-935-2283

#### State Timber Sale Contract WL 341-2020-W00339-01 Millicoma Flats

#### **Final Road Maintenance Cost**

T IIIdi Noda ilidii	i mai Roda mamenanos Gost									
	W	West Fork								
	N	Millicoma								
Totals		Rd.		Spur 1	Т	OTAL				
Stations		104.91		6.15						
Cost/Sta	\$	37.06	\$	243.07						
Total Cost	\$	3,888	\$	1,495	\$	5,383				

**Summary of Cost** 

	West Fork Millicoma Rd.	Spur 1	TOTAL							
	30	0								
	3/4"-0"	0								
\$/yd	\$28.83	\$0.00								
Subtotal	\$ 865	\$ -	\$ 865							
		Millicoma Rd. 30 3/4"-0" \$/yd \$28.83	Millicoma Rd. Spur 1 30 0 3/4"-0" 0 \$/yd \$28.83 \$0.00							

		est Fork			
	IN	/lillicoma			
Grade, Shape & Pull Ditches		Rd.	Spur 1	Т	OTAL
Stations		56.62	0.00		
\$/STA	\$	18.35	\$ 18.35		
Subtotal	\$	1,039	\$ -	\$	1,039

Road Vacating (Final)	N	lillicoma Rd.	Spur 1	1	TOTAL
Stations		0.00	6.15		
\$/Station	\$	30.43	\$ 30.43		
Hours		0.0	3.0		
Excavator \$/hour	\$	132.85	\$ 132.85		
Subtotal	\$	-	\$ 585.67	\$	586.00

		est Fork lillicoma		
Landing clean up		Rd.	Spur 1	TOTAL
Stations		0.00	1.00	
	\$/STA	\$ 100.00	\$ 100.00	
	Subtotal	\$ -	\$ 100.00	\$ 100

	West Fork		
	Millicoma		
<b>Block Vehicle Access (Final)</b>	Rd.	Spur 1	Total
Cost	\$ -	\$ 309.23	\$ 309.00

Additional Grading/Maintenance during "active log haul"	West Fork Millicoma Rd.	Spur 1	Total
Cost	\$ 1,984.00	\$ 500.00	\$ 2,484.00

Move In	Initial	Between Proj.
Grader	\$ 500	
Vibratory Rolloer		
D * Cat		
Excavator	\$ 1,000	
Dump Truck		

Move in costs associated with one entry for the entire project

Total Final Maintenance Costs (Including Move in) \$ 6,883

# **Road Brushing Costs**

State Timber Sale Contract Millicoma Flats WL 341-2020-W00339-01

int/Satationing A to G 2.00 tensity Light to Media	West Fork Millicoma		
tensity 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.0	* *		
tensity Light to Medium 1	2.00		Total
\$ 1.	ght to Medium   Light to Medium	ш	
st \$	\$	1,350	
	200		
Total Cost 3,200.00	3,200.00   \$	\$	3,200

#### **Rocking and Compaction**

Rock Source: Commercial

#### Rock Quantity (Inplace)

-		
Additional Rock	West Fork Millicoma Rd.	TOTAL
Rock Size	3/4"-0"	
Number of Points	2	
Curve Widening/Spot Rocking (Yds)	10	
Subtotal Spot/Widening Rock	20	20
Rock Size	1 1/2"-0"	
Number of Points	2	
Curve Widening/Spot Rocking (Yds)	10	
Subtotal Spot/Widening Rock	20	20

Energy Dissipator Yds	Pit Run	
Rock Size	Rip Rap	
Aprrox Total (cu. Yds)	30	30

#### ROCK COST (Rock + Delivery)

Road Segment/Name	West Fork Millicoma	TOTAL
Rock Size	3/4"-0"	
Approx cu. yds Spot Rock	20	20
Cost/yd (includes load/spread)	\$30.02	
Subtotal	\$600.38	
Rock Size	1 1/2"-0"	
Approx cu. Yds Spot Rock	20	20
Cost/yd (includes load/spread)	\$28.83	
Subtotal	\$576.63	
Rock Size	Pit Run	
Approx cu. Yds Engery Dissipator	30	30
Cost/yd (includes load/spread)	\$30.02	
Subtotal	\$900.58	
Subtotal Cost "Additional" Rock	\$ 2,078	\$ 2,078

Grand total quarry approx yds	70		70
Total Quarry Rock Cost	\$	2,078	\$ 2,078

Compaction w/Processing	West Fork Millicoma	TOTAL
Cost/Cu. Yd.	\$2.00	
Subtotal Processing	\$ 140	\$ 140

\$/yd³ rock in place & compacted	West Fork Millicoma Tot		<b>Total</b>
Total Rock Costs	\$2,218	\$	2,218

#### Move-in included in subgrade construction

Due to rounding, the numbers in the table above may not add up to the totals shown.

#### State Timber Sale Contract Millicoma Flats WL 341-2020-W00339-01

#### **Subgrade Construction/Culverts**

Processing and Decking Right-of-Way Logs Not Included

Totals	West Fork Millicoma		Spur 1		TOTAL	
Stations		104.91	6.15			111
Cost/Sta	\$	73.00	\$	509.00		
Cost	\$	7,663.00	\$	3,131.00	\$	10,794.00

#### **Earthwork**

Clearing and Grubbing	West Fork Millicoma	Spur 1	TOTAL
Acreage	0	0.2	
Cost/Acre	\$1,337.00	\$1,337.00	
Total	\$ -	\$ 268	\$ 268.00

Excavation yards are bank run from State's design

Construction/Excavation	West Fork Millicoma	Spur 1	TOTAL
Stations	0	6.15	
Drift/Excavation Cu Yd		456	
\$/sta	\$150.91	\$150.91	
Drift/Excavation \$/yd		\$2.23	
Landing Construction		\$481.17	
Subtotal	-	\$ 2,425	\$ 2,425.00

#### Culverts

Aluminized Steel	West For	k Millicoma	West	Fork Millico	ma	
Length (ft)		40		120		
Diameter		18"		24"		0
Cost/Foot	\$	13.85	\$	18	3.12	
Subtotal	\$	554.00		21	74.4	
Subtotal	\$	554	\$	2,	175	\$ 2,729.00
Installation Cost	\$	638	\$	1,	914	\$ 2,552.00

#### **Subgrade Treatment**

Compaction w/ Roller	West Fork Millicoma	Spur 1	TOTAL
Road Stations	0	6.15	6
Cost/STA	\$ 24.99	\$ 24.99	
Subtotal	-	\$ 154	\$ 154

Grade, Shape & Pull Ditches	West Fork Millicoma	Spur 1	TOTAL
Road Stations	104.91	6.15	
Cost/STA	\$ 22.70	\$ 46.06	
Subtotal	\$ 2,382	\$ 284	\$ 2,666

Move in Cost	Initial	Between Projects		TOTAL
D-7 Cat	\$ 1,500		\$	10,794.00
Dump Truck	\$ 200		Total	Move in cost
grader	\$ 500		\$	3,000
vibratory roller	\$ 200		\$	13,794.00
water truck	\$ 100			
small excavator	\$ 500			

# Millicoma Flats WL 341-2020-W00339-01 Combined Project Costs

Project 1	Roadside brushing	\$3,200
Project 2	Road Improvements, Clean Catch Basins and Ditches on West Fork Millicoma Rd.	\$2,382
Project 3	Replace culverts	\$5,281
Project 4	Spot & Engery Disipator Rocking Project	\$2,218
Project 5	Construct and compact sub-grade and Stump Removal for Spur 1	\$3,131
Project 6	Equipment Move in	\$3,000

TOTAL PROJECT COSTS

\$19,212

#### **Cruise Report**

#### Millicoma Flats 2 SALE # 341-2020-W00339-01

**Sale Area:** Portions of Section 9 and 16, T24S, R11W, W.M., Coos County, Oregon. The sale's net harvestable acres are 19. There are approximately 1 acres of stream buffers and 4 acres of green tree retention area. Acres were determined using a combination of aerial photos, GPS, GIS, and topographic maps.

**Stand Description:** Millicoma Flats 2 is dominated by 52 and 87 year old Douglas-fir. A small component of bigleaf maple, western hemlock, myrtle and red alder are present. The majority of the hardwood component is concentrated near the small wetland areas. The understory consists of primarily sword fern, mountain huckleberry, salmonberry and vine maple. The slopes are primarily flat but have short slope with 35% and above in the timber sale area. There is one small type N stream branching off one small type F stream located near the Northwest portion and a small wetland area in the southern portion of the timber sale area. This unit was appraised for ground based operations.

**Cruise Method:** These areas were cruised in a grid pattern using a systematic variable radius plot sampling method. Area 1 Strata 1 was cruised using a 40 BAF all species. Area 1 Strata 2 was cruised in 2017 using a count 40 BAF all species and measure 160 BAF Douglas fir only. Area 2 was cruised in 2017 using a count 40 BAF all species and measure 250 BAF Douglas fir. All Strata cruise data was calculated using SuperACE program.

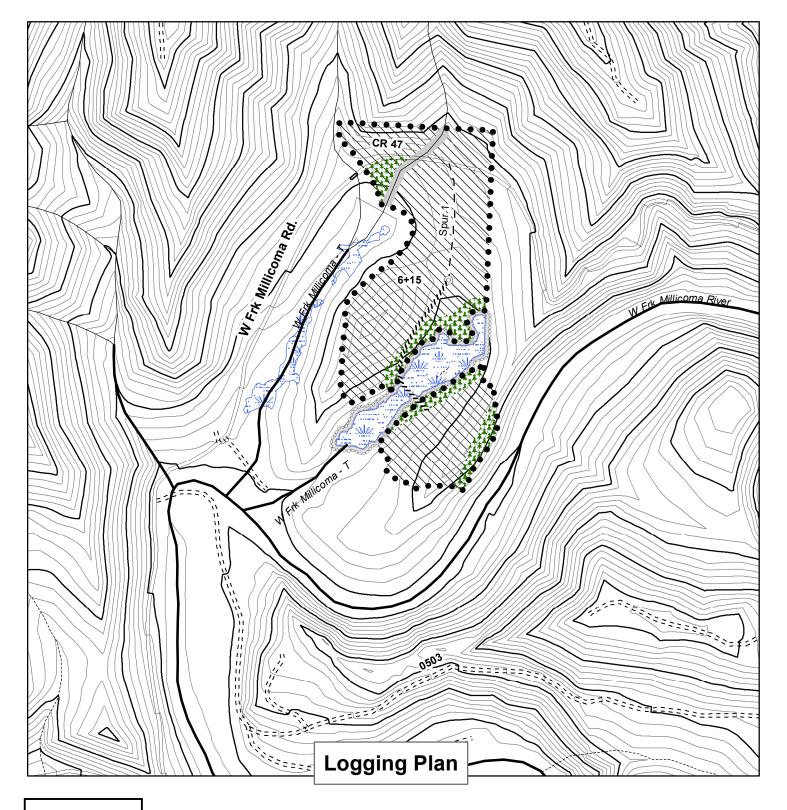
**Volume Tables:** Volumes were computed using SuperACE program and then converted to tons by a conversion factor.

(MBF)		_		•	1	1			3 acres
Species	Avg. DBH	Special Mill	2 Saw	3 Saw	4 Saw	Camp Run	Sub- Total (MBF)	Ton- Conversion Factor	Total Tons
Douglas-fir	20	-	43	30	12	-	85	7.4	629
Red Alder	14.9	-	-	-	-	32	32	7.8	249
Other Hardwoods	12	-	-	-	-	1	1	7.8	8
Western hemlock	22.1	-	25	5	1	-	31	7.7	239
					Total	(MBF):	149	Tons	1125
Area 1 Strata 2 Net ( (MBF)	Cruised Vol	lume							12 Acres
Species	Avg. DBH	Special Mill	2 Saw	3 Saw	4 Saw	Camp Run	Sub- Total (MBF)	Ton- Conversion Factor (Rounded)	Total Tons
Douglas-fir	15	-	104	72	31	-	207	7.4	1532
Red Alder	16.6	-	-	-	-	15	15	7.4	111
Other Hardwoods	10.7	-	-	-	-	6	6	7.8	47
Western hemlock	-	-	-	-	-	-	0	7.7	0
					Total	(MBF):	228	Tons	1690
Area 2 Net Cruised V	olume (MI	BF)							4 Acres
Species	Avg. DBH	Special Mill	2 Saw	3 Saw	4 Saw	Camp Run	Sub- Total (MBF)	Ton- Conversion Factor (Rounded)	Total Tons
Douglas-fir	21.2	-	78	54	23		155	7.4	1147
Red Alder	14	-				1	1	7.8	8
Other Hardwoods	21	-				1	1	7.8	8
Western hemlock	19	-	24	4	1		29	7.7	223
•					Total	(MBF):	186	Tons	1386

Area 1 & 2 Net Cruised Total Volumes							
Species MBF Tons							
Douglas-fir	447	3308					
Red Alder	48	368					
Other hardwood	8	62					
Western hemlock	60	462					
Sub Total 563 4201							
Merchantable	555	4138					

Area 1 Strata 1 Acres: 4 Area 1 Strata 2 Acres: 12

Area 2 Acres: 3





Landing to Construct

OF TIMBER SALE CONTRACT NO. 341-2020-W00339-01 Millicoma Flats 2 PORTIONS OF SECTIONS 9 & 16, T24S, R11W, W.M. COOS COUNTY, OREGON



1 inch = 500 feet

This product is for informational use and may not have been prepared for or be suitable for legal, engineering or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of this information.

**TOTAL NET ACRES = 19** 



"STEWARDSHIP IN FORESTRY"