

## Sale WL-341-2020-W00577-01

District: Western Lane Date: October 21, 2019

## **Cost Summary**

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$1,678,432.36	\$31.92	\$1,678,464.28
		Project Work:	(\$102,501.02)
		Advertised Value:	\$1,575,963.26

10/21/19



#### Sale WL-341-2020-W00577-01

District: Western Lane Date: October 21, 2019

## **Timber Description**

Location: Portions of Section 21, T19S, R1E, W.M., Lane County, OR

Stand Stocking: 60%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	12	0	97
Western Hemlock / Fir	13	0	97
Maple	14	0	95

Volume by Grade	28	3S & 4S 6"- 11"	SM & Better	Camprun	Total
Douglas - Fir	3,230	1,020	186	0	4,436
Western Hemlock / Fir	116	124	0	10	250
Maple	0	0	0	24	24
Total	3,346	1,144	186	34	4,710

**Comments:** Pond Values Used: Forest to Market Prices September 2019.

Western hemlock and Other Conifers Stumpage Price = \$183.76/MBF

Western redcedar and Other Cedars Stumpage Price = Pond Value minus Logging Costs: \$772.58/MBF = \$1060/MBF - \$287.42/MBF

Bigleaf maple and Other Hardwoods Stumpage Price = \$1.33/MBF

Pulp Price (Conifer and Hardwood) Price = \$2.50/Ton

Hauling Cost Allowance = equivalent to \$950 daily truck cost.

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

Other Costs (No Profit & Risk added): Equipment wash prior to move-out = \$500 Final Road Maintenance = \$9.046

TOTAL Other Costs (No Profit and Risk added) = \$9,546

10/21/19



#### Sale WL-341-2020-W00577-01

District: Western Lane Date: October 21, 2019

**Logging Conditions** 

Combination#: 1 Douglas - Fir 37.65%

Western Hemlock / Fir 23.64% Maple 28.33%

Logging System: Shovel Process: Harvester Head Delimbing

yarding distance: Short (400 ft) downhill yarding: No

tree size: Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF

loads / day: 12 bd. ft / load: 4500

cost / mbf: \$98.96 machines: Forwarder

Harvester

Combination#: 2 Douglas - Fir 62.35%

Western Hemlock / Fir 76.36% Maple 71.67%

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

tree size: Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF

loads / day: 8 bd. ft / load: 4500

cost / mbf: \$216.12

machines: Log Loader (A)

Forwarder Harvester

Tower Yarder (Medium)



## Sale WL-341-2020-W00577-01

District: Western Lane Date: October 21, 2019

## **Logging Costs**

**Operating Seasons:** 1.00

Profit Risk: 10%

Project Costs: \$102,501.02

Other Costs (P/R): \$0.00

Slash Disposal: \$0.00

Other Costs: \$9,546.00

#### Miles of Road

Road Maintenance:

\$0.00

Dirt	Rock (Contractor)	Rock (State)	Paved
0.0	3.0	0.0	0.0

#### **Hauling Costs**

Species	\$/MBF	Trips/Day	MBF / Load
Douglas - Fir	\$0.00	3.0	4.0
Western Hemlock / Fir	\$0.00	3.0	3.5
Grand Fir	\$0.00	3.0	3.5
Maple	\$0.00	2.0	3.0



## Sale WL-341-2020-W00577-01

District: Western Lane Date: October 21, 2019

## **Logging Costs Breakdown**

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
Douglas -	Fir								
\$172.00	\$3.15	\$0.93	\$81.55	\$0.00	\$25.76	\$0.00	\$2.00	\$2.03	\$287.42
Western Hemlock / Fir									
\$188.42	\$3.15	\$0.93	\$93.19	\$0.00	\$28.57	\$0.00	\$2.00	\$2.03	\$318.29
Maple									
\$182.92	\$3.21	\$0.93	\$166.25	\$0.00	\$35.33	\$0.00	\$2.00	\$2.03	\$392.67

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$655.43	\$368.01	\$0.00
Western Hemlock / Fir	\$0.00	\$502.05	\$183.76	\$0.00
Maple	\$0.00	\$394.00	\$1.33	\$0.00



## Sale WL-341-2020-W00577-01

District: Western Lane Date: October 21, 2019

## **Summary**

#### Amortized

Specie	MBF	Value	Total	
Douglas - Fir	0	\$0.00	\$0.00	
Western Hemlock / Fir	0	\$0.00	\$0.00	
Maple	0	\$0.00	\$0.00	

#### Unamortized

Specie	MBF	Value	Total	
Douglas - Fir	4,436	\$368.01	\$1,632,492.36	
Western Hemlock / Fir	250	\$183.76	\$45,940.00	
Maple	24	\$1.33	\$31.92	

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

**Recovery:** \$1,678,464.28

Prepared By: Kevin Gehrig Phone: 541-935-2283

### Milk Creek WL-341-2020-W00577-01 Combined Project Costs

Project 1	Road Brushing	\$2,576.00
Project 2	Construct and compact sub-grades, Road Improvements, Culverts.	\$25,843.02
Project 3	Spread and process rock.	\$69,582.00
Project 4	Move-In	\$4,500.00

TOTAL PROJECT COSTS

\$ 102,501.02

State Timber Sale Contract WL-341-2020-W00577-01 Milk Creek

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

Totals	Spur 1	Spur 1a	Spur 1b	Spur 2	Spur 2a	Spur 2b	Wimble Pass Road	TOTAL
Stations	51.75	12.34	20.51	33.84	3.1	1.2	50.94	
Cost/Sta	\$ 40.03	\$ 40.23	\$ 44.68	\$ 38.53	\$ 73.19	\$ 101.68	\$ 47.30	
Total Cost	\$ 2,071.43	\$ 496.44	\$ 916.36	\$ 1,303.84	\$ 226.89	\$ 122.02	\$ 2,409.58	\$ 7,546

Spot Rocking		Spur 1	Spur 1a	Spur 1b	Spur 2	Spur 2a	Spur 2b	Wimble Pass Road	TOTAL
Total Yds		30	0	0	20	0	0	70	
Rock Size		3"-0"	3"-0"	3"-0"	3"-0"	3"-0"	3"-0"	1 1/2"-0"	
	\$/yd	\$20.39	\$20.39	\$20.39	\$20.39	\$20.39	\$20.39	\$ 21.07	
	Subtotal	\$ 612	\$ -	\$ -	\$ 408	\$ -	\$ -	\$ 1,475	\$ 2,495

Grade, Shape & Pull												
Ditches	Spur 1	Spur 1a	S	pur 1b	Spur 2	S	pur 2a	Spur 2b	Wir	mble Pass Road	Т	OTAL
Stations	51.75	12.34	- 2	20.51	33.84		3.10	1.20		50.94		
\$/STA	\$ 18.35	\$ 18.35	\$	18.35	\$ 18.35	\$	18.35	\$ 18.35	\$	18.35		
Subtotal	\$ 950	\$ 226	\$	376	\$ 621	\$	57	\$ 22	\$	935	\$	3,187

Install Waterbars	Spur 1	Spur 1a	Spur 1b	Spur 2	Spur 2a	Spur 2b	Wimble Pass Road	TOTAL
# of waterbars	6.00	2.00	4.00	5.00	2.00	0.00	0.00	
\$/waterbar	\$35.00	\$35.00	\$35.00	\$35.00	\$35.00	\$35.00	\$35.00	
Subtotal	\$ 210.00	\$ 70.00	\$ 140.00	\$ 175.00	\$ 70.00	\$ -	\$ -	\$ 665.00

Landing clean up	Spur 1	;	Spur 1a	•	Spur 1b	Spur 2	S	Spur 2a	Spur 2b	Win	nble Pass Road	Т	OTAL
Stations	3.00		2.00		4.00	1.00		1.00	1.00		0.00		
\$/STA	\$ 100.00	\$	100.00	\$	100.00	\$ 100.00	\$	100.00	\$ 100.00				
Subtotal	\$ 300	\$	200	\$	400	\$ 100	\$	100	\$ 100	\$	-	\$	1,200

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

Move in costs associated with one entry for the entire project

#### **Total Final Maintenance Costs**

\$ 9,046

## **Summary of "Other Costs" for Timber Sale Appraisals**

Milk Creek WL-341-2020-W00577-01

## "Other Costs" with Profit and Risk to be Added:

None

None					
Total "Other Costs" with Profit and Risk to be	Added:				\$0
"Other Costs" With No Additional Profit and Ris	<u>ik</u>				
	Units	Quantity	Cost/Unit	Tot	al Cost
Equipment wash prior to move-out	Operation Operation			\$	500
Final Road Maintenance	Operation			\$	9,046
Total "Other Costs" With No Additional Profit	and Risk:			\$	9,546
Cost per MBF 4,710 MBF				\$	2.03

# **Road Brushing Costs**

State Timber Sale Contract Milk Creek WL-341-2020-W00577-01

Location	Spur 1	Spur 1a	Spur 1b	Spur 2	
Point to Point/Satationing	0+00 to 51+75	0+00 to 12+34	0+00 to 20+51	0+00 to 33+84	
Miles	0.98	0.23	0.39	0.64	Total
Brushing Intensity	Light	Light	Light	Light	
Cost/mile	\$ 1,150	\$ 1,150	\$ 1,150	\$ 1,150	
Total Cost	\$ 1,127	\$ 265	\$ 449	\$ 736	\$ 2,576

#### **Rock and Processing Costing**

WL-341-2020-W00577-01 Summary: Total Rocking Cost \$ 69,582.00 Quantity of loose truck aggregate. Cu. Yds. 3120.00 Road Spur 1 Segment 0+00 to 51+75 Loose Truck Quantity per Station Cost Processing Subtotal Purpose Location Type Lift 0+00 to 51+75 3"-0" Cu. Yds. 17 Cu. Yds. / s \$ 20.39 + 2.00 per Cu. Yds \$ 19,032.00 Turn Around Operator's Choice 3"-0" 20 Cu. Yds. @ 20 Cu. Yds/Spot \$ 20.39 + 2.00 per Cu. Yds \$ 448.00 Turn Around 48+31 3"-0" 20 Cu. Yds. @ 20 Cu. Yds/Spot \$ 20.39 + 2.00 per Cu. Yds \$ 448 00 Landing Operator's Choice Jaw Run 40 Cu. Yds. \$ 19.72 + 2.00 per Cu. Yds \$ 869.00 Landing Operator's Choice law Run 40 Cu. Yds. \$ 19.72 + \$ 2.00 per Cu. Yds \$ 869.00 Landing 51+75 Jaw Run 40 Cu. Yds. \$ 19.72 + \$ 2.00 per Cu. Yds \$ 869.00 \$ 22,535.00 **Subtotal Rock Cost** Road Spur 1a Segment 0+00 to 12+34 Quantity per Station Cost Processing Type Subtotal Purpose Location Loose Truck 2.00 per Cu. Yds \$ 12,091.00 0+00 12+34 Cu. Yds. 44 Cu. Yds. / s \$ 20.39 + 3"-0" 540 Base to @ 3"-0" 20 Cu. Yds/Spot \$ 20.39 + 5+52 20 Cu. Yds. \$ 2.00 per Cu. Yds \$ 448.00 Turn Around Landing 9+63 Jaw Run 40 Cu. Yds. \$ 19.72 + 2.00 per Cu. Yds \$ 869.00 \$ 19.72 + 2.00 per Cu. Yds \$ 869.00 Landing 12+34 Jaw Run Cu. Yds. **Subtotal Rock Cost** \$ 14,277.00 Road Spur 1b Segment 0+00 to 20+51 Туре Quantity per Station Cost Processing Subtotal Purpose Location Loose Truck 0+00 20+51 3"-0" Cu. Yds. 44 Cu. Yds. / s \$ 20.39 + 2.00 per Cu. Yds \$ 20,151.00 3"-0" Turn Around 8+14 30 Cu. Yds. 20 Cu. Yds/Spot \$ 20.39 + 2.00 per Cu. Yds \$ 672.00 Landing 5+13 Jaw Run 40 Cu. Yds. \$ 19.72 + 2.00 per Cu. Yds \$ 869.00 Landing 12+64 Jaw Run 40 Cu. Yds. \$ 19.72 + 2.00 per Cu. Yds \$ 869.00 Landing 16+51 Jaw Run 40 Cu. Yds. \$ 19.72 + Ś 2.00 per Cu. Yds \$ 869.00 Landing 20+51 Jaw Run 40 Cu. Yds. \$ 19.72 + 2.00 per Cu. Yds \$ 869.00 **Subtotal Rock Cost** \$ 24,299.00 Road Spur 2 Segment 0+00 to 33+84 Loose Truck Quantity per Station Location Type 3/4"-0" Cost Processing Subtotal Purpose 17 Cu. Yds. / s \$ 21.07 + 2.00 per Cu. Yds \$ 923.00 0+00 2+50 40 Cu. Yds. @ Lift to 6+40 3"-0" 20 Cu. Yds. @ 20 Cu. Yds/Spot \$ 20.39 + 2.00 per Cu. Yds \$ 448.00 Turn Out 24+50 3"-0" 20 Cu. Yds/Spot \$ 20.39 + \$ 2.00 per Cu. Yds \$ 448.00 Turn Around 20 Cu. Yds. @ Landing 37+62 Jaw Run 40 Cu. Yds. \$ 19.72 + \$ 2.00 per Cu. Yds \$ 869.00 **Subtotal Rock Cost** Road Spur 2a Segment 0+00 to 3+10 Quantity per Station Processing Purpose Location Type Loose Truck 2.00 per Cu. Yds \$ 3,135.00 Base 0+00 to 3+10 3"-0" 140 Cu. Yds. 44 Cu. Yds. / s \$ 20.39 + Ś Landing 3+10 Jaw Run 40 Cu. Yds. \$ 19.72 + \$ 2.00 per Cu. Yds \$ 869.00 **Subtotal Rock Cost** \$ 4,004,00 Road Spur 2b Segment 0+00 to 1+20 Cost Processing Quantity per Station Purpose Location Type Loose Truck Subtotal Landing 1+20 Jaw Run 50 Cu. Yds. \$ 19.72 + \$ 2.00 per Cu. Yds \$ 1,086.00 **Subtotal Rock Cost** \$ 1,086.00 Wimble Pass Road Road Segment Gate to Intersection w/Spur 2 Location Type Loose Truck Quantity per Station Processing Subtotal Purpose Spur 2 1 1/2"-0" @ 17 Cu. Yds. / s \$ 21.07 + \$ 2.00 per Cu. Yds \$ 693.00 to 30 Cu. Yds. **Subtotal Rock Cost** 693.00

#### **Subgrade Preparation & Construction Costing**

	020-W00577-01				Summary	<i>r</i> :				
					nstruction Cost cost per station					\$ 21,913.0 \$ 17
Road	Spur 1 (Stationing 0+00 to 51+7	5)		/Weiluge	-					¥
egment	0+00 to 51+75									
	Balance/Standard Subgrade con:	struction					Quantity			Sub total
	Landing Construction		\$	481.17	per landing	@	3 landings	=		\$ 1,443.5
	Subgrade preparation (Grade/Di Install Road Fabric	tches/Inlets/Outlets)	\$ \$		per station per linear foot	@	51.75 stations 140 feet		=	\$ 2,384.0 \$ 210.0
		Subtotal Construction Construction Cost pe		n						\$ 4,037.5 <b>\$ 7</b>
Road	Spur 1a (Stationing 0+00 to 12+3	14)			_		0			Cub Askal
	Clearing and Grubbing note: Clearing debris may be Balance/Standard Subgrade cons		nan 50 p		per station	@	Quantity 12.34 stations		=	<b>Sub total</b> \$ 827.0
	Drift/Balance Cut Landing Construction	<u>struction</u>	\$ \$		per station per landing	@	1 station 2 landings	=		\$ 1,306.0 \$ 962.3
	Subgrade preparation (Grade/Di		\$	67.03	per station	@	12.34 stations		=	\$ 828.0
		Subtotal Construction Construction Cost pe		n						\$ 3,923.3 <b>\$ 31</b>
toad	Spur 1b (Stationing 0+00 to 20+5	51)			_		Quantity			Sub total
	Clearing and Grubbing note: Clearing debris may be Balance/Standard Subgrade con:		nan 50 p		per station	@	20.51 stations		=	\$ 1,240.0
	Drift/Balance Cut Landing Construction	<u>struction</u>	\$ \$		per station per landing	@	1 station 4 landings	=		\$ 806.0 \$ 1,924.6
	Subgrade preparation (Grade/Di		\$	67.03	per station	@	20.51 stations		Ξ	\$ 1,375.0
		Subtotal Construction Construction Cost pe		n						\$ 5,345.6 <b>\$ 26</b>
oad	Spur 2 (Stationing 0+00 to 33+8-	4)			_					
egment	0+00 to 33+84						Quantitu			Cub tota
	Balance/Standard Subgrade cons	struction		404.47	1 19		Quantity			Sub total
	Landing Construction		\$		per landing	@	1 landing	=		\$ 481.1
	Subgrade preparation (Grade/Di	Subtotal Construction			per station	@	33.84 stations		=	\$ 1,559.0
		Construction Cost pe	r Statio	n						\$ 6
toad	Spur 2a (Stationing 0+00 to 3+10	))			-		Quantity			Sub total
	Clearing and Grubbing note: Clearing debris may be	scattered on slopes less th	nan 50 p		per station	@	3.1 stations		=	\$ 265.0
	Balance/Standard Subgrade con: Drift/Balance Cut	struction	\$	619.80	per station	@	3.1 stations	=		\$ 1,921.0
	Landing Construction		\$		per landing	@	1 landing	=		\$ 481.1
	Subgrade preparation (Grade/Slo	ope)	\$	71.29	per station	@	3.10 stations		=	\$ 221.0
		Subtotal Construction								\$ 2,888.1 <b>\$ 9</b> 3
		Construction Cost pe		n						
oad	Spur 2b (Stationing 0+00 to 1+20	Construction Cost pe		n						
oad	Clearing and Grubbing note: Clearing debris may be	Construction Cost pe	r Statio	\$83.33	per station	@	Quantity 1.2 stations		=	
oad	Clearing and Grubbing note: Clearing debris may be Balance/Standard Subgrade con: Drift/Balance Cut	Construction Cost pe	r Statio	\$83.33 percent	per station per station	@		=	=	\$ 100.0
oad	Clearing and Grubbing note: Clearing debris may be Balance/Standard Subgrade con: Drift/Balance Cut Landing Construction	Construction Cost pe  ))  scattered on slopes less the struction	nan 50 p	\$83.33 percent 553.19 481.17	per station per landing	@	1.2 stations 1.2 station 1 landing	= =	Ξ	\$ 100.0 \$ 664.0 \$ 481.1
oad	Clearing and Grubbing note: Clearing debris may be Balance/Standard Subgrade con: Drift/Balance Cut	construction Cost pe	nan 50 p	\$83.33 percent 553.19 481.17	per station	@	1.2 stations 1.2 station	= =	=	\$ 100.0 \$ 664.0 \$ 481.1 \$ 86.0
oad	Clearing and Grubbing note: Clearing debris may be Balance/Standard Subgrade con: Drift/Balance Cut Landing Construction	Construction Cost pe  ))  scattered on slopes less the struction	nan 50 p \$ \$ \$	\$83.33 percent 553.19 481.17 71.66	per station per landing	@	1.2 stations 1.2 station 1 landing	= =	=	\$ 100.0 \$ 664.0 \$ 481.1 \$ 86.0 \$ 1,331.1
	Clearing and Grubbing note: Clearing debris may be Balance/Standard Subgrade con: Drift/Balance Cut Landing Construction	construction Cost pe	nan 50 p \$ \$ \$	\$83.33 percent 553.19 481.17 71.66	per station per landing	@	1.2 stations 1.2 station 1 landing	= =	=	\$ 100.0 \$ 664.0 \$ 481.0 \$ 86.0 \$ 1,331.0
oad	Clearing and Grubbing note: Clearing debris may be Balance/Standard Subgrade con: Drift/Balance Cut Landing Construction Subgrade preparation (Grade/Sk	construction Cost pe	nan 50 p \$ \$ \$	\$83.33 percent 553.19 481.17 71.66	per station per landing	@	1.2 stations 1.2 station 1 landing	= =	=	\$ 100.0 \$ 664.0 \$ 481.0 \$ 86.0 \$ 1,331.0
Road	Clearing and Grubbing note: Clearing debris may be Balance/Standard Subgrade con: Drift/Balance Cut Landing Construction Subgrade preparation (Grade/Sle	construction Cost pe  scattered on slopes less tistruction  ope)  Subtotal Constructior  Construction Cost pe  +00 to 50+94)	nan 50 p \$ \$ \$	\$83.33 percent 553.19 481.17 71.66	per station per landing	@	1.2 stations 1.2 station 1 landing	= =	= =	\$ 100.0 \$ 664.0 \$ 481.1 \$ 86.0 \$ 1,331.1 \$ 1,10
Road	Clearing and Grubbing note: Clearing debris may be Balance/Standard Subgrade com Drift/Balance Cut Landing Construction Subgrade preparation (Grade/Sle Wimble Pass Road (Stationing O	construction Cost pe  scattered on slopes less tistruction  ope)  Subtotal Constructior  Construction Cost pe  +00 to 50+94)	s an Cost	\$83.33 percent 553.19 481.17 71.66	per station per landing per station	@	1.2 stations 1.2 station 1 landing 1.2 stations	= =	= =	\$ 664.0 \$ 481.1 \$ 86.0

State Timber Sale Contract Milk Creek WL-341-2020-W00577-01

#### **Culvert Installation Costing**

Summary: Total pipe install cost \$ 3,930.00

Culvert List Spur 1

								Mater	ial				
Culvert No.	Purpose	Location	Diameter (i	Length (ft)	Material Ty	Gauge	Culv	ert Cost	Couplers	Ins	tallation	Sul	b Total
Spur 1													
1	Cross Drain	10+96	18	30	ACSP	16	\$	420.00	\$ 30.00	\$	600.00	\$	1,050.00
2	Cross Drain	23+35	18	40	ACSP	16	\$	560.00	\$ 30.00	\$	700.00	\$	1,290.00
3	Cross Drain	51+28	18	40	ACSP	16	\$	560.00	\$ 30.00	\$	700.00	\$	1,290.00
							Pipe trans	port and d	elivery			\$	300.00
										Total	•	\$	3,930.00

Note: Culvert lengths are approxamite. The operator shall add or subtract length to ensure proper fit within the road prism or stream crossing.

#### **Cruise Report**

#### Milk Creek SALE # 341-2020-W00577

**Sale Area:** Portions of Section 21, T19S, R1E, W.M., Lane County, Oregon. The sale consists of 2 areas: Area 1's net harvestable acres are 105 and Area 2's net harvestable acres are 31. There are approximately 10 acres of stream buffers and roads. Acres were determined using a combination of aerial photos, GPS, GIS, and topographic maps.

**Stand Description:** Area 1 of Milk Creek is dominated by 91-year-old Douglas-fir. A small component of bigleaf maple, western hemlock, western red cedar and red alder are present. The majority of the hardwood component is concentrated near the draws. The understory consists of primarily sword fern, salal, dwarf Oregon grape, salmonberry, and vine maple. The slopes are 35%- 65% throughout the unit. There are three streams located in the timber sale area, one small type N in the Northern portion of the unit, one small type N in the South portion of the unit, and one small Type F that runs along the East side, outside of the timber sale boundary. Area 1 was appraised for both ground based and cable based operations.

Area 2 of Milk Creek was added to the sale due to some damage caused during the 2019 snow storm. The area is split into two different strata: Area 2A (14 acres) dominated by a mix of 65-year-old Douglas-fir and western hemlock and Area 2B (17 acres) dominated by 41-year-old Douglas-fir. A small component of bigleaf maple, western hemlock, western red cedar and red alder are present. The majority of the hardwood component is concentrated near the draws. The understory consists of primarily sword fern, salal, dwarf Oregon grape, salmonberry, and vine maple.

The slopes are 0%- 65% throughout the unit. There are no streams located in Area 2, however the East timber sale boundary line, as well as the Northeast timber sale boundary line are buffered off of a small Type F stream. Area 2 unit was appraised for both ground based and cable based operations.

**Cruise Method:** Areas 1 and 2b were not cruised. Instead, cut-out data from the Millicoma Lookout Timber Sale and Bierce Creek were used for grade volume percentage, total MBF, and MBF/acre volume. Area 2a was cruised using a 20 BAF and calculated with the SuperACE program.

**Volume Tables:** Volumes for Area 1 were computed using the cut-out data from the MIllicoma Lookout Timber Sale and volumes for Area 2b were computed using the cut-out data from the Bierce Creek Sale. The volumes for Area 2a were cruised and computed using the SuperACE program.

Area 1 Net Cruised Volume (MBF)

Species	Avg. DBH	Special Mill	2 Saw	3 Saw	4 Saw	Camp Run	Sub-Total
Douglas-fir	13.8	186	3147	642	87		4062
Grand fir	10.3					8	8
Bigleaf maple	10					8	8
Western hemlock	10					2	2

Total

(MBF): 4080

Area 2A Net Cruised Volume (MBF)

Species	Avg. DBH	Special Mill	2 Saw	3 Saw	4 Saw	Camp Run	Sub-Total
Douglas-fir	13.4		61	38	33		132
Grand fir	20.7		34	12	2		48
Bigleaf maple	18.6					16	16
Western hemlock	15.5		82	76	33		191

Total

(MBF): 387

Area 2B Net Cruised Volume (MBF)

Species	Avg. DBH	Special Mill	2 Saw	3 Saw	4 Saw	Camp Run	Sub-Total
Douglas-fir	9.3		22	184	37		243
Grand fir							
Bigleaf maple							
Western hemlock							

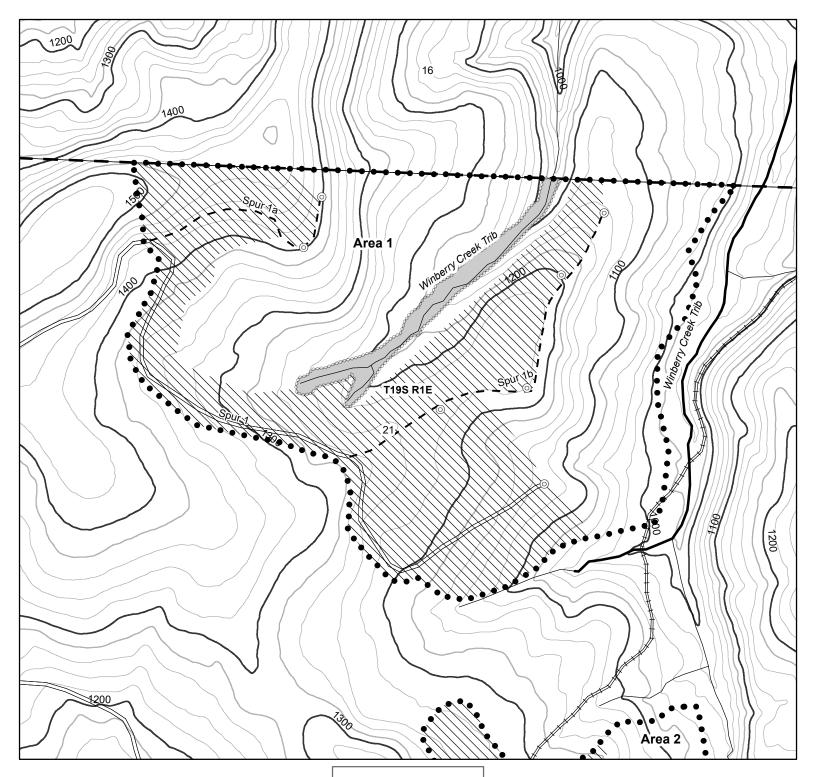
Total

(MBF): 243

TOTAL MBF: 4710

Note: A breakage and defect was applied to the volume.

Average MBF/Acre Area 1: 39 Average MBF/Acre Area 2A: 29 Average MBF/Acre Area 2B: 14



#### Legend

- •Timber Sale Boundary
- √ Ground Based
- = Surfaced road
- Road Reconstruct/New Construct
- = Surfaced road
- **—**Fish
- -- Nonfish
- Stream Buffer
- CODF Ownership
- O Landing to Construct

# Logging Map Map 1 of 2

OF TIMBER SALE CONTRACT NO. 341-2020-W00577-01
MILK CREEK
PORTIONS OF SECTIONS 21, T19S, R1E, W.M.
LANE COUNTY, OREGON

0 250 500 1,000 Fee

1 inch = 500 feet

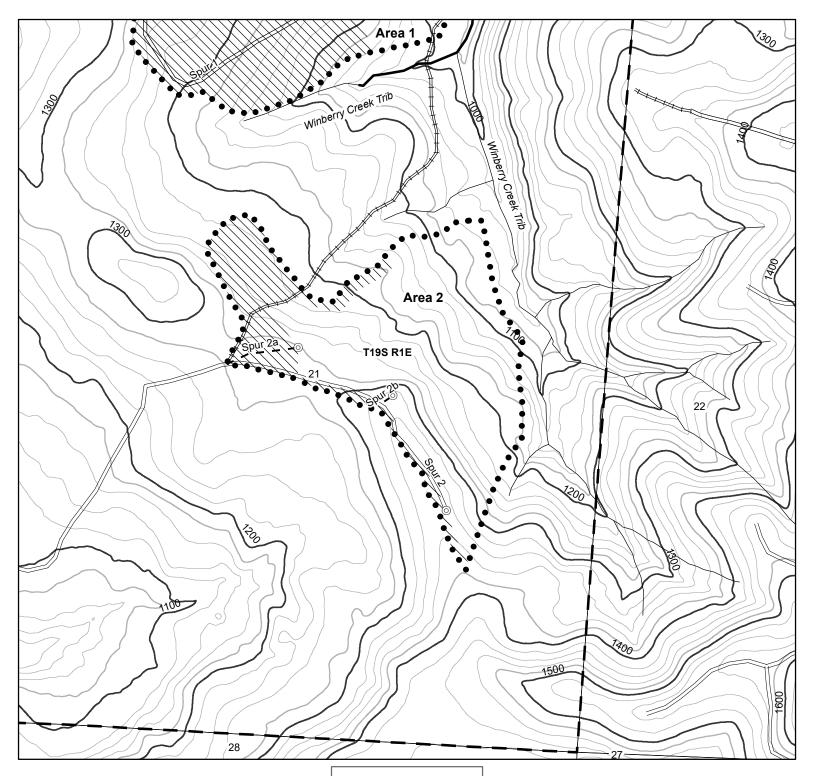
This product is for informational use and may not have been prepared for or be suitable for legal, engineering or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of this information.

AREA 1 = 105 AREA 2 = 31

TOTAL NET ACRES = 136 Contours = 20ft



"STEWARDSHIP IN FORESTRY"



#### Legend

- Timber Sale Boundary
- ∖ Ground Based
- = Surfaced road
- ightharpoonup Old road bed not driveable
- Road Reconstruct/New Construct
- = Surfaced road
- -Fish
- --- Nonfish
- ODF Ownership
- O Landing to Construct

# Logging Map Map 2 of 2

OF TIMBER SALE CONTRACT NO. 341-2020-W00577-01 MILK CREEK PORTIONS OF SECTIONS 21, T19S, R1E, W.M. LANE COUNTY, OREGON

0 250 500

1 inch = 500 feet

1,000

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.

AREA 1 = 105 AREA 2 = 31

TOTAL NET ACRES = 136 Contours = 20ft



"STEWARDSHIP IN FORESTRY"