

#### Timber Sale Appraisal Cold Boulder Sale WO-341-2019-W00776-01

District: West Oregon Date: March 27, 2019

#### **Cost Summary**

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$643,367.50	\$12,097.41	\$655,464.91
		Project Work:	(\$50,610.00)
		Advertised Value:	\$604,854.91

3/27/19



## Timber Sale Appraisal Cold Boulder

Sale WO-341-2019-W00776-01

District: West Oregon Date: March 27, 2019

#### **Timber Description**

Location: Portions of Section 19, T11S, R8W, and Section 24, T11S, R9W, W.M., Lincoln County Oregon

Stand Stocking: 60%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)		
Douglas - Fir	18	0	95		
Alder (Red)	14	0	90		

Volume by Grade	2\$	3S & 4S 6"- 11"	Camprun	Total
Douglas - Fir	852	818	0	1,670
Alder (Red)	0	0	39	39
Total	852	818	39	1,709

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

Western Hemlock and Other Conifers Stumpage Price = Pond Value minus Logging Cost:

\$253/MBF = \$535/MBF - \$282/MBF

Western redcedar and Other Cedars Stumpage Price = Pond Value minus Logging Cost, minus additional

haul cost:

624/MBF = 906/MBF - 282/MBF

Bigleaf Maple and Other Hardwoods Stumpage Price = Pond Value minus Logging Cost:

\$130/MBF = \$459/MBF - \$329/MBF

PULP (Conifer and Hardwood Price = \$3/TON

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

Intermediate Support/Tail Trees: 10 supports @ \$100/support = \$1,000. Extra felling costs(slashing hardwood brush): 24 acres @\$100/acre = \$2,400

TOTAL Other Costs (with Profit & Risk to be added) = \$3,400

Other Costs (No Profit & Risk added):

Equipment Cleaning (Invasive Species): \$2,000

Landing Slash Piling: 12 Landings @ \$180/Landing = \$2,160

TOTAL Other Costs (No Profit & Risk added) = \$4,160

SLASH DISPOSAL (concurrent with logging)

Project Work: = \$3,000

TOTAL Slash Disposal = \$3,000

**ROAD MAINTENANCE** 

Move-in: (Grader and Roller) \$1,556 Final Road Maintenance: \$12,016

TOTAL Road Maintenance: \$13,572/1,709 = \$7.94/MBF

3/27/19



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**Logging Conditions** 

Combination#: 1 Douglas - Fir 10.00%

Alder (Red) 10.00%

**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: 4600

cost / mbf: \$96.81
machines: Forwarder
Harvester

Combination#: 2 Douglas - Fir 90.00%

Alder (Red) 90.00%

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

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

loads / day: 8 bd. ft / load: 4600

**cost / mbf:** \$168.48

machines: Log Loader (A)

Stroke Delimber (A) Tower Yarder (Large)



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#### **Logging Costs**

Operating Seasons: 2.00

Profit Risk: 10%

**Project Costs:** \$50,610.00

Other Costs (P/R): \$3,400.00

**Slash Disposal:** \$3,000.00 **Other Costs:** \$4,160.00

#### Miles of Road

Road Maintenance:

\$7.94

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	3.0	4.5		
Alder (Red)	\$0.00	3.0	3.0		



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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								
\$161.31	\$8.34	\$5.14	\$73.89	\$1.99	\$25.07	\$1.76	\$2.00	\$2.43	\$281.93
Alder (Red	Alder (Red)								
\$161.31	\$8.73	\$5.14	\$116.12	\$1.99	\$29.33	\$1.76	\$2.00	\$2.43	\$328.81

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$667.18	\$385.25	\$0.00
Alder (Red)	\$0.00	\$639.00	\$310.19	\$0.00



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#### **Summary**

#### Amortized

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

#### Unamortized

Specie	MBF	Value	Total		
Douglas - Fir	1,670	\$385.25	\$643,367.50		
Alder (Red)	39	\$310.19	\$12,097.41		

**Gross Timber Sale Value** 

**Recovery:** \$655,464.91

Prepared By: Jon Long Phone: 541-929-3266

#### **SUMMARY OF ALL PROJECT COSTS**

Sale Name:	Sale Name: Cold Boulder			Date: Time:	August 2018 10:20	
Project #1a - Impre	ovement			Tillio.	10.20	
Road Segment	<del></del> -	<u>Length</u>		Cost		
3 to 4		4.1 sta		\$ <del>4,63</del> 5		
5 to 6		13.5 sta		\$16,837		
	TOTAL	17.6 sta			-	\$21,472
Project #1b - Main	tenance					
Road Segment		<u>Length</u>		Cost		
1 to 2		246.9 sta		\$11,875		
7 to 8		18.6 sta		\$313		
9 to 10		5.2 sta		\$81		
11 to 12		55.1 sta		\$2,891		
12 to 13		9.1 sta		\$141		
14 to 15		46.2 sta		\$554		
16 to 17		44.6 sta		\$691		
18 to 19		6.0 sta		\$93		
	TOTAL	431.7 sta			_	\$16,639
Project #2 - Brush	ing	398.8 sta.				\$8,448
Project #3 Move in	<u>1</u>		<u>Cost</u>	On-site move	<u>)</u>	
Excavator, C240 or	•		\$1,290			
Crawler tractor, D-6	•		\$805			
Grader, Cat 14-G o	r equiv.		\$778	\$30		
Backhoe			\$340	\$15		
Vibratory roller			\$778	\$15		
	TOTAL				_	\$4,051
				GRAND TOTA	<b>L</b>	\$50,610

Date

08/17/2018

Compiled by Matt McBride

SALE ROAD	Cold Boulder 1 to 2		ſ	Project # Salmon		LENGTH nt Woods F	•	, Stromboulder	sta Rd.	246.9
MAINTEN	ANCE									
Clean out			17	culverts	@	\$25.00	ea =	\$425		
(inlets and	•			_						
Slough rer		4.0 l	nr	@	\$140.00	/hr	=	\$560		
End-haul	pe rounding	60 (	~V	@	\$3.00	/cv	=	\$180		
(endhaul to		00 (	Jy	•	ψο.σσ	70y	_	Ψ100		
•	andings (4)	1 I	٦r	@	\$100.00	/hr	=	\$100		
Grade/pro		75.0	sta	@	\$15.50	/sta	=	\$1,163		
surface ro										
Grade/pro	00 to pt. 2)	75.0 s	sta	@	\$13.20	/sta	=	\$990		
•	tory roller)	70.0	sta	•	ψ13.20	/3ta	_	Ψυσο		
(**************************************	,,									
						TOTAL IM	1PROVEN	MENT =	\$3,418	
SURFACII	NG				Size	Cost/yd				
Turnout ro			20	cy of	3-0"	\$23.36	=	\$467		
Landing ro	` '			cy of	3-0"	\$23.36	=	\$467		
Landing ro				cy of	jaw-run	\$22.01	=	\$1,321		
Spot rock			220	cy of	1½-0"	\$23.70	=	\$5,214		
(Sta. 139-	+30 to Pt. 2)									
						TOTAL R	оск соз	ST =	\$7,469	
Special P	roiect \	Nith 24	10 exc	cavator c	r equivalent					
-	ning fill) @ Sta. 2									
Excavate Free Dra	and Construct	4 1	nr	@	\$140.00	/hr	=	\$560		
	Excav. To W3	10 (	СУ	@	\$3.00	/cy	=	\$30		
Drain rock			7	cy of	6-8" open	\$34.50	=	\$242		
Compact f	ill (rock)	2 l		@	\$40.00	/hr	=	\$80		
•	tory hand tampei	r)								
Base rock			1	cy of	jaw-run	\$22.01	=	\$22		
Surface ro	, ,			cy of	1½-0"	\$23.70	=	\$24		
Install Geo	otextile fabric	12 f	t	@	\$2.50	/ft	=	\$30		
						TOTAL SI	PECIAL P	ROJECTS =	\$988	

Compiled by: Matt McBride Date: Aug 17, 2018

ate: Aug 17, 2018 **GRAND TOTAL =====> \$11,875** 

SALE ROAD	Cold Boul 3 to 4	lder	Project #	1a		LENGTH	improv	e		sta	4.1
IMPROVI	EMENT	(with D6 and	14G or equiv	alen	t )						
Re-open (with doze	road	4.1 sta	@	aiori	\$36.67	/sta	=	\$150			
Re-open (with doze	landing	0.5 hrs	@	\$	110.00	/hr	=	\$55			
Shape su (with road	bgrade	4.1 sta	@	\$	15.40	/sta	=	\$63			
Compact	subgrade atory roller)	4.1 sta	@	\$	13.20	/sta	=	\$54			
Shape su (with road	rface	4.1 sta	@	\$	15.50	/sta	=	\$64			
Compact	•	4.1 sta	@	\$	13.20	/sta	=	\$54			
						TOTAL IM	1PROVE	EMENT =	\$440		
SURFAC	ING				Size	Cost/yd					
	ock (6"lift)		0 cy of	j	aw-run	\$22.01	=	\$3,081			
Landing r	` '		0 cy of	j	aw-run	\$22.01	=	\$880			
Junction i	rock	1	0 cy of		3-0"	\$23.36	=	\$234			
						TOTAL R	OCK CO	OST =	\$4,195		
Compiled	by:	Matt McBride									
Date:		Aug 17, 2018				GRAND T	OTAL :	====>	\$4,635		

SALE ROAD	Cold Bould 5 to 6	er	Project #	1a		LENGTH	improve	9		sta	13.5
IMPROVE Re-open r (with doze	oad r)	(with D6 and 14 13.5 sta	@		\$36.67		=	\$495			
Re-open la (with doze	-	0.5 hrs	@	\$	110.00	/hr	=	\$55			
Shape sub (with road	-	13.5 sta	@	\$	15.40	/sta	=	\$208			
Compact	•	13.5 sta	@	\$	13.20	/sta	=	\$178			
Shape sur (with road	face	13.5 sta	@	\$	15.50	/sta	=	\$209			
Compact	•	13.5 sta	@	\$	13.20	/sta	=	\$178			
						TOTAL IM	1PROVE	MENT =	\$1,323	;	
EXCAVAT Construct (Sta. 0+56		With D6 dozer 2 hr	or equivaleı @		\$150.00	/hr	=	\$300			
						TOTAL EX	XCAVAT	ION =	\$300	)	
SURFACI Surface ro Landing ro Junction ro	ock (8"lift) ock (3)	80	cy of cy of cy of	•	Size aw-run aw-run 3-0"	Cost/yd \$22.01 \$22.01 \$23.36	= = =	\$12,986 \$1,761 \$467			
						TOTAL R	OCK CO	ST =	\$15,214		
Compiled Date:	by:	Matt McBride Aug 17, 2018				GRAND T	OTAL =	===>	\$16,837		

SALE ROAD	Cold Boul 7 to 8	lder Project #	1b	LENGTH	improve		sta	18.6
MAINTEN Remove s and brush (with road	sod ning debris	18.6 sta	@	\$ 15.50	/sta =	\$288		
Clean out (inlets and	culverts	1 culverts	@	\$25.00	/ea	\$25		
			TOTAL S	PECIAL PRO	OJECTS C	OST =	\$313	
Compiled Date:	by:	Matt McBride Aug 17, 2018		GRAND T	ΓΟΤΑL ===	:==>	\$313	

SALE Cold Boulder Project # 1b LENGTH improve sta 5.2 ROAD 9 to 10 Burnt Woods Ridge Rd., Cline Crk. Rd.

NOAD 3 to 10

**MAINTENANCE** 

Remove sod 5.2 sta @ \$ 15.50 /sta \$81

and brushing debris (with road grader)

TOTAL SPECIAL PROJECTS COST = \$81

Compiled by: Matt McBride

Date: Aug 17, 2018 **GRAND TOTAL =====> \$81** 

SALE ROAD	Cold Bould 11 to 12		Project # ⁄Iiller Crk.			LENGTH	improve		:	sta	55.1
MAINTEN	IANCE										
Clean out		5 (	culverts		@	\$25.00	ea =	\$125			
(inlets and Shape su	•	55.1 sta	@	\$	15.50	/sta	=	\$854			
(with road		3311 313	O	Ψ		, 0.10.		400.			
Compact (with vibra	subgrade atory roller)	55.1 sta	@	\$	13.20	/sta	=	\$727			
(WILL) VIDIO	atory ronor,										
						TOTAL IN	/IPROVE	MENT =	\$1,706		
SURFAC	ING				Size	Cost/yd					
Spot rock		50	cy of	1	1/2-0"	\$23.70	=	\$1,185			
						TOTAL R	оск соз	ST =	\$1,185		
Compiled	•	Matt McBride				OD AND T	CTAL		<b>60.004</b>		
Date:		Aug 17, 2018				GRAND T	UIAL ==	===>	\$2,891		

SALE Cold Boulder Project # 1b LENGTH improve 9.1 sta ROAD 12 to 13 Surfaced, outsloped

**MAINTENANCE** 

Remove sod 9.1 sta @ \$ 15.50 /sta = \$141

and brushing debris (with road grader)

TOTAL IMPROVEMENT COST = \$141

Compiled by: M.McBride
Date: Aug 17, 2018

SALE ROAD	Cold Bould 14 to 15		Project # Miller Bench	1b n Rd.	LENGTH	improve		sta	46.2
MAINTEN	IANCE	(with backhoe)							
Clean out		2	culverts	@	\$25.00	ea =	\$50		
(inlets and	•	0.01		<b>#</b> 00.00	//		<b>#</b> 400		
Slough re	moval pe rounding	2.0 hr	@	\$80.00	/nr	=	\$160		
	excavation	30 cy	@	\$3.00	/cy	=	\$90		
Remove s	od ing debris	46.2	sta	@	\$ 5.50	/sta =	\$254		
					TOTAL IM	IPROVEMEN	NT =	\$554	
Compiled Date:	by:	Matt McBride Aug 17, 2018			GRAND T	OTAL ====	=>	\$554	

SALE Cold Boulder Project # 1b LENGTH improve 44.6 sta ROAD 16 to 17 Surfaced, outsloped

**MAINTENANCE** 

Remove sod 44.6 sta @ \$ 15.50 /sta = \$691

and brushing debris (with road grader)

TOTAL IMPROVEMENT COST = \$691

Compiled by: M.McBride
Date: Aug 17, 2018

SALE Cold Boulder Project # 1b LENGTH improve 6.0 sta ROAD 18 to 19 Surfaced, outsloped

**MAINTENANCE** 

Remove sod 6.0 sta @ \$ 15.50 /sta = \$93

and brushing debris (with road grader)

TOTAL IMPROVEMENT COST = \$93

Compiled by: M.McBride
Date: Aug 17, 2018

#### Cold Boulder Timber Sale No. 341-19-41

#### Project No. 2

#### **Mechanical Brushing Costs**

Date: Aug 17, 2018

Road Segment/ Point	Road Name	Length (Feet)	Miles	Brush Density	Cost / Mile	Segment Cost
1 to Sta. 139+30	Salmon Creek Rd.	13,930	2.64	Light	\$850.00	\$2,244
Sta. 172+00 to 2	Stromboulder Rd.	7,470	1.41	Medium	\$1,100.00	\$1,551
7 to 8		1,860	0.35	Light	\$850.00	\$298
9 to 10		520	0.10	Medium	\$1,100.00	\$110
11 to 12	Miller Creek Rd.	5,510	1.04	Medium	\$1,100.00	\$1,144
12 to 13		910	0.17	Heavy	\$1,550.00	\$264
14 to 15	Miller Bench Rd.	4,620	0.88	Heavy	\$1,550.00	\$1,364
16 to 17		4,460	0.84	Heavy	\$1,550.00	\$1,302
18 to 19		600	0.11	Heavy	\$1,550.00	\$171
Totals		39,880	7.54			\$8,448

#### **SUMMARY OF MAINTENANCE COST**

SALE	Cold Boulder	- Final Maintenance Cost Estimate
		(Costed in appraisal, not in project costs)

Grading/Compaction	Move-in	
	Grader	\$ 778
	Roller	\$ 778
	Total	\$ 1 556

Road Segment	Length	Cost/Sta	Cost	Mileage
1 to 2	246.9	\$24.28	\$5,994.73	4.68
3 to 4	4.1	\$ 24.28	\$99.55	0.08
5 to 6	13.5	\$ 24.28	\$327.78	0.26
11 to 12	55.1	\$ 15.50	\$854.05	1.04
Total	319.6		\$7,276.11	6.05

#### Maintenance Rock:

	Volume	Cost/CY	Cost
1½-0" 3-0"	200	\$23.70	\$4,740.00 \$0.00
Grand Total			\$ 13,572.11
TS Volume	1,709	MBF	
Cost / MBF =			\$7.94

#### NOTES:

#### Rock Haul Cost Computation

SALE NAME: Cold Boulder DATE: Aug 17, 2018

ROAD NAME: Stromboulder Rd. CLASS: Medium ROCK SOURCEWild Rose 10CY truck

Route: Hwy. 223 to Hwy. 20 to Salmon Crk. Rd.

#### TIME Computation:

Road s	peed	time	factors:
--------	------	------	----------

_										
1.	55	MPH	22	2.0	MRT			24	1.0	minutes
2.	50	MPH			MRT			(	0.0	minutes
3.	45	MPH	10	0.0	MRT			13	3.3	minutes
4.	40	MPH			MRT			(	0.0	minutes
5.	35	MPH	5	0.0	MRT			8	3.6	minutes
6.	30	MPH			MRT			(	0.0	minutes
7.	25	MPH			MRT			(	0.0	minutes
8.	20	MPH	6	5.0	MRT			18	3.0	minutes
9.	15	MPH			MRT			(	0.0	minutes
10.	10	MPH	1	5	MRT			9	9.0	minutes
11.	05	MPH	C	.5	MRT			(	5.0	minutes

0.50 minutes

79.40 minutes

93.41 minutes 103.79 minutes

Dump	or	spread	time	per	RТ

Total	hauling	cycle	time	for	this	setting
(100%	efficier	ncv)				

Operator efficiency correction	0.85	
Job efficiency correction	0.90	
Truck capacity (CV)	10 00	

Truck capacity (CY)	10.00	10.38	min/CY
Loading time, delay time per CY		0.25	min/CY
TIME (minutes) per cubic yard		10.63	min/CY

#### COST per CY computation

Cost of truck and operator per hour	\$68.88	/hr.
Cost of truck and operator per minute	\$1.15	/min

Cost per CY	\$12.22	/CY
1 1 1		, -

Spread and compact Water truck, Grader & Roller \$1.50 /CY

		Cost Delivered	Cost Delivered
Size	Cost/Yd (Pit)	w/o processing	with processing
1½ - 0"	\$ 11.48	\$23.70	\$25.20
3 - 0"	\$ 11.14	\$23.36	\$24.86
Jaw Run	\$ 9.79	\$22.01	\$23.51
Pit-Run	8.78	\$21.00	\$22.50
6-8 open	22.28	\$34.50	\$36.00

#### Cold Boulder (WO-341-2019-W00776-01) FY 2019

#### **TIMBER CRUISE REPORT**

1. Sale Area Location: Portions of Section 19, T11S, R8W, & Section 24, T11S, R9W W.M., Lincoln County, Oregon.

2. Fund Distribution:

**a. Fund** BOF 89% CSL 11%

b. Tax Code

3. Sale Acreage by Area:

Area	Treatment	Gross Acres	Stream Buffers	Existing Roads	Green Tree Areas	Net Sale Acres	Acreage Comp. Method
1	Modified Clearcut	98	4	3	2	89	Ortho photo, GIS, GPS

- **4. Cruisers and Cruise Dates:** This sale was cruised by Matt McBride, Aaron McEwen, Jon Long, Eric Breksted, Ian Hayes and Mike Hogan in May/June 2018.
- 5. Cruise Method and Computation: The sale consists of one modified clearcut area that was cruised using variable radius plot sampling. The sale area was cruised using a 20 BAF taking half plots with plots spaced 2 chains apart on plot lines spaced 9 chains apart. A total of 50 plots were taken with 25 measure plots and 25 count plots. On two of the count plots, minor species were cruised. These two plots show as measure plots on the Project Statistics report. One measure plot recorded zero trees. Measure plots were measured for DBH, height, form factor, grade, and defect. Data was entered into the Atterbury SuperACE cruise program to determine stand statistics and net board foot volume. Additional volume was removed to account for hidden defect and breakage.

Digital ortho photos, Lidar data, and GPS data were used to map the boundaries for the sale, and ArcMap GIS was used to determine gross and net acreage.

- **6. Measurement Standards:** Tree heights were measured to the nearest foot, to a top diameter of 6 inches inside bark or to 40% of form factor. Diameters were measured to the nearest inch, and a form point of 16 feet was used to calculate form factor. Form factors were measured or estimated on every tree. Most trees were graded in 40 foot log segments unless breakage, defect, or length to top of grade cruise diameter warranted otherwise.
- 7. **Timber Description:** Timber in the sale area includes 83 acres of 49 year-old Douglas-fir with scattered red alder, 2 acres of 29 year-old Douglas-fir with scattered red alder, and 6 acres of 39 year-old Douglas-fir and mature red alder. The average Douglas-fir is approximately 18 inches DBH, with an average height of 77 feet to a merchantable top. The average red alder is approximately 14 inches DBH, with an average height of 45 feet to a merchantable top. The average volume per acre to be harvested (net) is approximately 19 MBF. Conifer trees other than Douglas-fir are reserved from cutting but were not observed during cruising or other field work.
- **8. Statistical Analysis and Stand Summary:** (See attached "Statistics").

Area	Target CV	Target SE	Actual CV	Actual SE
1	40%	11%	43.4%	6.1%

Note: Statistics shown are for conifer and hardwood trees combined. Percentages are for net board foot volume.

Page 1 of 2 August 20, 2018

**9. Total Volume** (**MBF**) **by Species and Grade:** (See attached volume report "Species, Sort Grade – Board Foot Volumes - Project").

Species	Gross Cruise Volume	Cruised D & B	Cruised D & B (MBF)	Hidden D & B	Hidden D & B (MBF)	Net Sale Volume
Douglas-fir	1,720	1.4%	24	1.5%	26	1,670
Red alder	40	0%	0	3%	1	39
Total	1,760	1.4%	24	2%	27	1,709

Species	Ave. DBH	Net Vol.	2- Saw	3- Saw	4- Saw	Camp Run	% by Species
Douglas-fir	18	Grade %	51%	44%	5%	-	98%
2 ouglus III		1,670	852	735	83		7070
Red alder	14	Grade %				100%	2%
		39				39	
Total		1,709	852	735	83	39	100%

Attachments:	Cruise Design	
	O M	

Species, Sort Grade – Board Foot Volumes

Statistics

Stand Table Summary Log Stock Table – MBF

Prepared by: Matt McBride	Date: <u>6/6/2018</u>
Unit Forester:	Date:
Evelyn Hukari	

TC PSTATS					OJECT OJECT	STATIS	TICS DBOLD			PAGE DATE	1 6/14/2018
TWP RGE	SC	TRACT	r	ГҮРЕ	OJEC I	ACI		PLOTS	TREES	CuFt	BdFt
11S 08	19	ALL		CC01		1101	89.00	50	174	1	W
					TREES	I	ESTIMATED TOTAL		ERCENT AMPLE		
		PLOTS	TREES		PER PLOT		TREES		TREES		
TOTAL		50	174		3.5		111225		111225		
CRUISE		26	90		3.5		7,146		1.3		
DBH COUNT							,,				
REFOREST											
COUNT		23	78		3.4						
BLANKS		1									
100 %											
				STAN	ND SUMM	ARY					
	S	AMPLE	TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET
		TREES	/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC
DF		78	70.3	18.3	77	29.9	128.0	19,329	19,054	5,222	5,211
SNAG		5	4.4	15.3	36	1.4	5.6				
R ALDER		7	5.6	13.6	45	1.5	5.6	449	449	154	154
		90	80.3	17.8	73	33.0	139.2	19,778	19,503	5,376	5,366
	CE LIN 68.1	MITS OF THE		VOLUME V			E SAMPLE E				
CONFIDEN	68.1	MITS OF THE TIMES OUT	OF 100 THE		SAMPLI	E TREES -	BF		OF TREES R	=	INF. POP.
CL 68.1 SD: 1.0	68.1	MITS OF THE TIMES OUT COEFF VAR.%	S.E.%		<b>SAMPLI</b> DW	E <b>TREES -</b> AVG	<b>BF</b> HIGH		OF TREES RI	EQ.	
CCL 68.1 SD: 1.0 DF	68.1	MITS OF THE TIMES OUT	OF 100 THE		SAMPLI	E TREES -	BF			=	INF. POP.
CL 68.1 SD: 1.0 DF SNAG	68.1	MITS OF THE TIMES OUT COEFF VAR.% 58.3	S.E.% 6.6		SAMPLI DW 310	E TREES - AVG 332	BF HIGH 354			=	
CCL 68.1 SD: 1.0	68.1	MITS OF THE TIMES OUT COEFF VAR.%	S.E.%		<b>SAMPLI</b> DW	E <b>TREES -</b> AVG	<b>BF</b> HIGH			=	1
CCL 68.1 SD: 1.0 DF SNAG R ALDER TOTAL	68.1	COEFF VAR.% 58.3 47.9 69.7	S.E.% 6.6 19.5		SAMPLI DW 310 68 272	E TREES - AVG 332 84 294	BF HIGH 354	#	5	10	2
CL 68.1 SD: 1.0 DF SNAG R ALDER TOTAL CL 68.1	68.1	COEFF VAR.% 58.3 47.9 69.7 COEFF	S.E.% 6.6 19.5 7.3	LC	SAMPLI DW 310 68 272 TREES/A	E TREES - AVG 332 84 294 ACRE	BF HIGH 354 101 316	#	5 194 OF PLOTS R	10 49 EQ.	1 2 INF. POP.
CCL 68.1 SD: 1.0 DF SNAG R ALDER TOTAL	68.1	COEFF VAR.% 58.3 47.9 69.7	S.E.% 6.6 19.5	LC	SAMPLI DW 310 68 272	E TREES - AVG 332 84 294	BF HIGH 354	#	5	10	1 2 INF. POP.
CCL 68.1 SD: 1.0 DF SNAG R ALDER TOTAL CL 68.1 SD: 1.0	68.1	COEFF VAR.%  58.3  47.9  69.7  COEFF VAR.%	S.E.% 6.6 19.5 7.3 S.E.%	LC	SAMPLI DW 310 68 272 TREES/2	E TREES - AVG 332 84 294 ACRE AVG	BF HIGH 354 101 316 HIGH	#	5 194 OF PLOTS R	10 49 EQ.	1 2 INF. POP.
CL 68.1 SD: 1.0 DF SNAG R ALDER TOTAL CL 68.1 SD: 1.0 DF	68.1	COEFF VAR.% 58.3 47.9 69.7 COEFF VAR.% 51.1	S.E.% 6.6 19.5 7.3 S.E.%	LC	SAMPLI DW 310 68 272 TREES/2 DW 65	E TREES - AVG 332 84 294  ACRE AVG 70	BF HIGH 354 101 316 HIGH	#	5 194 OF PLOTS R	10 49 EQ.	1 2 INF. POP.
CCL 68.1 SD: 1.0 DF SNAG R ALDER TOTAL CL 68.1 SD: 1.0 DF SNAG	68.1	COEFF VAR.% 58.3 47.9 69.7 COEFF VAR.% 51.1 390.6	S.E.% 6.6 19.5 7.3 S.E.% 7.2 55.2	LC	SAMPLI DW 310 68 272 TREES/A	E TREES - AVG 332  84 294  ACRE AVG 70 4	BF HIGH 354 101 316 HIGH 75 7	#	5 194 OF PLOTS R	10 49 EQ.	2 INF. POP.
CL 68.1 SD: 1.0 DF SNAG R ALDER TOTAL  CL 68.1 SD: 1.0 DF SNAG R ALDER	68.1	COEFF VAR.% 58.3 47.9 69.7 COEFF VAR.% 51.1 390.6 422.9	S.E.% 6.6 19.5 7.3 S.E.% 7.2 55.2 59.7	LC	SAMPLI  DW  310  68  272  TREES/2  DW  65  2  2  75	E TREES - AVG 332  84 294  ACRE AVG 70 4 6	BF HIGH 354 101 316 HIGH 75 7 9 86	#	5 194 OF PLOTS RI 5	10 49 EQ. 10	2 INF. POP.
CCL 68.1 SD: 1.0 DF SNAG R ALDER TOTAL CL 68.1 SD: 1.0 DF SNAG R ALDER TOTAL	68.1	COEFF VAR.% 58.3 47.9 69.7 COEFF VAR.% 51.1 390.6 422.9 46.3	S.E.% 6.6 19.5 7.3 S.E.% 7.2 55.2 59.7	LC	SAMPLI  DW  310  68  272  TREES/2  DW  65  2  2  75	E TREES - AVG 332  84 294  ACRE AVG 70 4 6 80	BF HIGH 354 101 316 HIGH 75 7 9 86	#	5 194 OF PLOTS RI 5	10 49 EQ. 10	INF. POP.  INF. POP.
CL 68.1 SD: 1.0 DF SNAG R ALDER TOTAL  CL 68.1 SD: 1.0 DF SNAG R ALDER TOTAL  CL 68.1	68.1	COEFF VAR.% 58.3 47.9 69.7 COEFF VAR.% 51.1 390.6 422.9 46.3 COEFF	S.E.% 6.6 19.5 7.3 S.E.% 7.2 55.2 59.7 6.5	LC	SAMPLI DW 310 68 272 TREES/2 DW 65 2 2 75 BASAL 2	E TREES - AVG 332  84 294  ACRE AVG 70 4 6 80  AREA/ACE	BF HIGH 354 101 316 HIGH 75 7 9 86	#	5  194  OF PLOTS RI 5  85  OF PLOTS R	10  49  EQ. 10  21  EQ.	INF. POP.  INF. POP.
CL 68.1 SD: 1.0 DF SNAG R ALDER TOTAL  CL 68.1 SD: 1.0 DF SNAG R ALDER TOTAL  CL 68.1 SD: 1.0 DF SNAG R ALDER TOTAL	68.1	COEFF VAR.% 58.3 47.9 69.7 COEFF VAR.% 51.1 390.6 422.9 46.3 COEFF VAR.% 46.0 323.0	S.E.% 6.6 19.5 7.3 S.E.% 7.2 55.2 59.7 6.5 S.E.% 6.5 45.6	LC	SAMPLI DW 310 68 272 TREES/2 DW 65 2 2 75 BASAL 2 DW 120 3	E TREES - AVG 332  84 294  ACRE AVG 70 4 6 80  AREA/ACE AVG 128 6	BF HIGH 354 101 316 HIGH 75 7 9 86 RE HIGH 136 8	#	5  194  OF PLOTS RI 5  85  OF PLOTS R	10  49  EQ. 10  21  EQ.	INF. POP.
CL 68.1 SD: 1.0 DF SNAG R ALDER TOTAL  CL 68.1 SD: 1.0 DF SNAG R ALDER TOTAL  CL 68.1 SD: 1.0 DF SNAG R ALDER TOTAL	68.1	COEFF VAR.% 58.3 47.9 69.7 COEFF VAR.% 51.1 390.6 422.9 46.3 COEFF VAR.% 46.0 323.0 433.2	S.E.% 6.6 19.5 7.3 S.E.% 7.2 55.2 59.7 6.5 S.E.% 6.5 45.6 61.2	LC	SAMPLI DW 310  68 272  TREES/A  DW 65 2 2 75  BASAL A  DW 120 3 2	E TREES - AVG 332  84 294  ACRE AVG 70 4 6 80  AREA/ACE AVG 128 6 6	BF HIGH 354  101 316  HIGH 75 7 9 86  RE HIGH 136 8 9	#	5  194  OF PLOTS RI 5  85  OF PLOTS RI 5	10  49  EQ. 10  21  EQ. 10	INF. POP.  INF. POP.
CL 68.1 SD: 1.0 DF SNAG R ALDER TOTAL  CL 68.1 SD: 1.0 DF SNAG R ALDER TOTAL  CL 68.1 SD: 1.0 DF SNAG R ALDER TOTAL	68.1	COEFF VAR.% 58.3 47.9 69.7 COEFF VAR.% 51.1 390.6 422.9 46.3 COEFF VAR.% 46.0 323.0	S.E.% 6.6 19.5 7.3 S.E.% 7.2 55.2 59.7 6.5 S.E.% 6.5 45.6	LC	SAMPLI DW 310 68 272 TREES/2 DW 65 2 2 75 BASAL 2 DW 120 3	E TREES - AVG 332  84 294  ACRE AVG 70 4 6 80  AREA/ACE AVG 128 6	BF HIGH 354 101 316 HIGH 75 7 9 86 RE HIGH 136 8	#	5  194  OF PLOTS RI 5  85  OF PLOTS R	10  49  EQ. 10  21  EQ.	INF. POP.
CU 68.1 SD: 1.0 DF SNAG R ALDER TOTAL  CL 68.1 SD: 1.0 DF SNAG R ALDER TOTAL  CL 68.1 SD: 1.0 DF SNAG R ALDER TOTAL  CL 68.1 SD: 1.0 DF SNAG TOTAL	68.1	COEFF VAR.% 58.3 47.9 69.7 COEFF VAR.% 51.1 390.6 422.9 46.3 COEFF VAR.% 46.0 323.0 433.2 36.8 COEFF	S.E.% 6.6 19.5 7.3 S.E.% 7.2 55.2 59.7 6.5 S.E.% 6.5 45.6 61.2 5.2	LO	SAMPLI DW 310 68 272 TREES/2 DW 65 2 2 75 BASAL 2 DW 120 3 2 132 NET BF/	E TREES - AVG 332  84 294  ACRE AVG 70 4 6 80  AREA/ACE AVG 128 6 6 139	BF HIGH 354 101 316 HIGH 75 7 9 86 RE HIGH 136 8 9 146	#	5  194  OF PLOTS RI 5  OF PLOTS RI 5  54  OF PLOTS RI	10  49  EQ. 10  EQ. 10  14  EQ. 10	INF. POP.  INF. POP.
CCL 68.1 SD: 1.0 DF SNAG R ALDER TOTAL  CL 68.1 SD: 1.0 DF SNAG R ALDER TOTAL  CL 68.1 SD: 1.0 DF SNAG R ALDER TOTAL  CL 68.1 SD: 1.0 DF SNAG R ALDER TOTAL  CL 68.1 SD: 1.0 DF SNAG R ALDER TOTAL	68.1	COEFF VAR.% 58.3 47.9 69.7 COEFF VAR.% 51.1 390.6 422.9 46.3 COEFF VAR.% 46.0 323.0 433.2 36.8 COEFF VAR.%	S.E.% 6.6 19.5 7.3 S.E.% 7.2 55.2 59.7 6.5 S.E.% 6.5 45.6 61.2 5.2 S.E.%	L(	SAMPLI DW 310 68 272 TREES/A DW 65 2 2 75 BASAL A DW 120 3 2 132 NET BF/DW	E TREES - AVG 332  84 294  ACRE AVG 70 4 6 80  AREA/ACE AVG 128 6 6 139  ACRE AVG	BF HIGH 354  101 316  HIGH 75 7 9 86  RE HIGH 136 8 9 146  HIGH	#	5  194  OF PLOTS RI 5  85  OF PLOTS RI 5	10  49  EQ. 10  21  EQ. 10	INF. POP.  INF. POP.
CL 68.1 SD: 1.0 DF SNAG R ALDER TOTAL  CL 68.1 SD: 1.0 DF SNAG R ALDER TOTAL  CL 68.1 SD: 1.0 DF SNAG R ALDER TOTAL  CL 68.1 SD: 1.0 DF SNAG R ALDER TOTAL  CL 68.1 SD: 1.0 DF SNAG R ALDER TOTAL	68.1	COEFF VAR.% 58.3 47.9 69.7 COEFF VAR.% 51.1 390.6 422.9 46.3 COEFF VAR.% 46.0 323.0 433.2 36.8 COEFF	S.E.% 6.6 19.5 7.3 S.E.% 7.2 55.2 59.7 6.5 S.E.% 6.5 45.6 61.2 5.2	L(	SAMPLI DW 310 68 272 TREES/2 DW 65 2 2 75 BASAL 2 DW 120 3 2 132 NET BF/	E TREES - AVG 332  84 294  ACRE AVG 70 4 6 80  AREA/ACE AVG 128 6 6 139	BF HIGH 354 101 316 HIGH 75 7 9 86 RE HIGH 136 8 9 146	#	5  194  OF PLOTS RI 5  OF PLOTS RI 5  54  OF PLOTS RI	10  49  EQ. 10  EQ. 10  14  EQ. 10	INF. POP.  INF. POP.
CONFIDEN  CL 68.1 SD: 1.0 DF SNAG R ALDER TOTAL  CL 68.1 SD: 1.0 DF SNAG R ALDER TOTAL  CL 68.1 SD: 1.0 DF SNAG R ALDER TOTAL  CL 68.1 SD: 1.0 DF SNAG R ALDER TOTAL	68.1	COEFF VAR.% 58.3 47.9 69.7 COEFF VAR.% 51.1 390.6 422.9 46.3 COEFF VAR.% 46.0 323.0 433.2 36.8 COEFF VAR.%	S.E.% 6.6 19.5 7.3 S.E.% 7.2 55.2 59.7 6.5 S.E.% 6.5 45.6 61.2 5.2 S.E.%	L(	SAMPLI DW 310 68 272 TREES/A DW 65 2 2 75 BASAL A DW 120 3 2 132 NET BF/DW	E TREES - AVG 332  84 294  ACRE AVG 70 4 6 80  AREA/ACE AVG 128 6 6 139  ACRE AVG	BF HIGH 354  101 316  HIGH 75 7 9 86  RE HIGH 136 8 9 146  HIGH	#	5  194  OF PLOTS RI 5  OF PLOTS RI 5  54  OF PLOTS RI	10  49  EQ. 10  EQ. 10  14  EQ. 10	INF. POP.  INF. POP.

TC	PSPCSTGR		$\mathbf{S}_{1}$	pecies, S	ort Gra	de - Board	Fo	ot Vo	lum	es (Pr	oject	)								
T1	1S R08W S19 T	yCC01		89.00		Project: Acres		COI	LDB( 89.(								Page Date Time		14/201 :06:34	18
		%						Perce	nt of N	let Boar	d Foot	Volume					Avera	ige Lo	g	Logs
	S So Gr	Net	Bd. Ft	. per Acre		Total	Į	L	og Sca	le Dia.			Log l	Length		Ln	Dia	Bd	CF/	Per
Spp	T rt ad	BdFt	Def%	Gross	Net	Net MBF		4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99	Ft	In	Ft	Lf	/Acre
DF	DO CU		100.0	40												9	12		0.00	3.0
DF	DO 2M	51	1.3	10,030	9,897	88	31			86	14	2		7	90	38	14	269	1.77	36.8
DF	DO 3M	44	.8	8,426	8,356	74	14		99	1		2	2	28	69	36	8	97	0.78	86.2
DF	DO 4M	5	3.8	833	801	7	71		100			57	28	16		20	6	24	0.42	33.0
DF	Totals	98	1.4	19,329	19,054	1,69	96		48	45	7	4	2	17	77	33	9	120	1.00	159.1
SN	DO CU															55	182		0.00	.6
SN	Totals															55	182		0.00	.6
RA	DO CR	100		449	449		40		100			3	44	15	37	31	7	58	0.64	7.8
RA	Totals	2		449	449		40		100			3	44	15	37	31	7	58	0.64	7.8
Tota	ıls		1.4	19,778	19,503	1,73	36		49	44	7	4	3	17	76	33	10	116	0.97	167.5

TC PSTNDSUM		Stand Table Summary	Page Date:	1 6/14/2018
T11S R08W S19 TyCC01	89.00	Project COLDBOLD	Time:	4:06:35PM
		Acres 89.00	Grown Year:	

S Spc T	DBH	Sample Trees	FF 16'	Tot Av Ht	Trees/ Acre	BA/ Acre	Logs Acre	Average Net Cu.Ft.	e Log Net Bd.Ft.	Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Tons	Totals Cunits	N	MBF
DF	12	2	83	54	4.179	3.28	6.27	11.3	36.7		71	230			63	20
DF	13	1	80	54	1.780	1.64	1.78	21.0	50.0		37	89			33	8
DF	14	1	87	111	1.535	1.64	3.07	21.5	85.0		66	261			59	23
DF	15	10	85	100	13.372	16.41	26.74	22.4	78.5		598	2,099			32	187
DF	16	7	85	105	8.227	11.49	17.63	25.3	92.7		445	1,634			96	145
DF	17	9	85	107	9.370	14.77	20.82	28.6	101.5		597	2,113			31	188
DF	18	3	83	88	2.786	4.92	5.57	31.2	100.0		174	557			55	50
DF	19	6	86	108	5.001	9.85	10.83	37.6	130.8		408	1,417			63	126
DF	20	11	85	111	8.274	18.05	19.56	38.8	137.7		759	2,693			75	240
DF	21	7	87	123	4.776	11.49	13.65	39.1	152.0		534	2,074			75	185
DF	22	6	83	109	3.730	9.85	9.32	43.7	148.7		408	1,386			63	123
DF	23	3	87	114	1.706	4.92	4.55	47.5	183.8		216	836			92	74
DF	24	4	85	132	2.089	6.56	6.27	51.2	203.3		321	1,275			85	113
DF	25	2	83	127	.963	3.28	2.89	48.3	210.0		140	607			24	54
DF	26	5	85	127	2.225	8.21	6.23	62.1	248.6		387	1,549			44	138
DF	31	1	83	103	.313	1.64	.94	55.0	250.0		52	235			46	21
DF	Totals	78	85	104	70.327	128.00	156.13	33.4	122.0		5,211	19,054		4,6	38	1,696
RA	12	1	87	62	1.019	.80	1.02	21.0	60.0		21	61			19	5
RA	13	2	85	71	1.736	1.60	2.60	18.0	53.3		47	139			42	12
RA	14	3	86	57	2.245	2.40	2.99	20.0	52.5		60	157			53	14
RA	16	1	85	80	.573	.80	1.15	23.0	80.0		26	92			23	8
RA	Totals	7	86	65	5.572	5.60	7.76	19.9	57.8		154	449		1	37	40
SN	10	1	99	23	2.053	1.12										
SN	16	1	99	65	.802	1.12										
SN	18	1	86	71	.634	1.12										
SN	20	1	99	45	.513	1.12										
SN	23	1	98	45	.388	1.12										
SN	Totals	5	97	42	4.391	5.60										
Totals		90	86	98	80.290	139.20	163.89	32.7	119.0		5,366	19,503		4,7	75	1,736

 TC PLOGSTVB
 Log Stock Table - MBF

 T11S R08W S19 TyCC01
 89.00
 Project: COLDBOLD Acres 89.00
 Date 6/14/2018 Time 4:06:34PM

			_				l									1 ime	-10'	06:34P	
S				Gross	Def	Net	%							r in Inche		I		I	
Spp T	rt de		Len	MBF	%	MBF	Spc	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
DF	DO C	CU	14	4	100.0														
DF	DO 2	М	16	9		9	.5								9				
DF	DO 2	М	20	12		12	.7									12			
DF	DO 2	М	32	44		44	2.6						44						
DF	DO 2	М	34	20		20	1.2						20						
DF	DO 2	М	36	101	1.0	100	5.9						33	49	17				
DF	DO 2	М	38	14		14	.8						14						
DF	DO 2	М	40	693	1.6	682	40.2						269	202	210				
DF	DO 3	M	16	2		2	.1					2							
DF	DO 3	M	20	12		12	.7					12							
DF	DO 3	M	21	1		1	.1			1									
DF	DO 3	M	27	2		2	.1				2								
DF	DO 3	M	28	6		6	.4			6									
DF	DO 3	M	30	2		2	.1				2								
DF	DO 3	M	31	2		2	.1				2								
DF	DO 3	M	32	96		96	5.6			7	25	57		8					
DF	DO 3	M	33	6		6	.4			6									
DF	DO 3	M	34	105	2.7	102	6.0			39	14	49							
DF	DO 3	M	36	60		60	3.6			14	5	41							
DF	DO 3	M	38	36		36	2.1			36									
DF	DO 3	M	40	420		417	24.6			66	143	209							
DF	DO 4	M	12	1		1	.1			1									
DF	DO 4	М	13	2		2	.1			2									
DF	DO 4	М	14	7		7	.4			7									
DF	DO 4	M	15	6		6	.4			2	4								
DF	DO 4	М	16	7		7	.4			7									
DF	DO 4	М	17	4		4	.3			4									
DF	DO 4	М	18	9		9	.5			7	2								
DF	DO 4	М	19	2		2	.1			2									
DF	DO 4	М	20	1		1	.1			1									
DF	DO 4	М	22	6		6	.4			6									
DF	DO 4	М	25	3		3	.2			3									
DF	DO 4	М	28	11		11	.6			11									
DF	DO 4	М	32	8	20.0	7	.4			7									
DF	DO 4	M	33	6	20.0	5	.3			5									
DF	Tot	als		1,720	1.4	1,696	97.7			240	199	368	381	259	236	12			

TC P	PLO	GSTVB					Log S	Stock Table -	MBF								
T11S	R0	8W S19 Ty	CC01	8	39.00		Proje Acres		LDBOLI 89	.00				Page Date Time	6/1	2 4/2018 06:34P	
	s	So Gr	Log	Gross	Def	Net	%	]	Net Volun	ne by S	caling Diamete	r in Inche	es				
Spp	Т	rt de	Len	MBF	%	MBF	Spc	2-3 4-5	6-7	8-9	10-11 12-13	14-15	16-19	20-23	24-29	30-39	40+
RA		DO CR	20	1		1	3.3		1								
RA		DO CR	24	7		7	17.4		2	5							
RA		DO CR	28	6		6	15.3				6						
RA		DO CR	29	2		2	5.1		2								
RA		DO CR	30	3		3	6.7		3								
RA		DO CR	32	6		6	15.0			6							
RA		DO CR	39	5		5	13.6		5								
RA		DO CR	40	9		9	23.5		9								
RA		Totals	S	40		40	2.3		23	11	6						
Total		All Specie	es	1,760	1.	4 1,736	100.0		263	210	375 381	259	236	12			



# Oregon Department of Forestry OPERATIONAL PERIODS and SEASONAL RESTRICTIONS

ODF/State Forests
Operational Periods and Seasonal Restriction
WALT Sys Gen Report 2014
Page 1 of 1

December 31, 2020 **Expiration Date** 

24533

Cold Boulder Sale Name

WO-341-2019-W00776-01 Sale Number

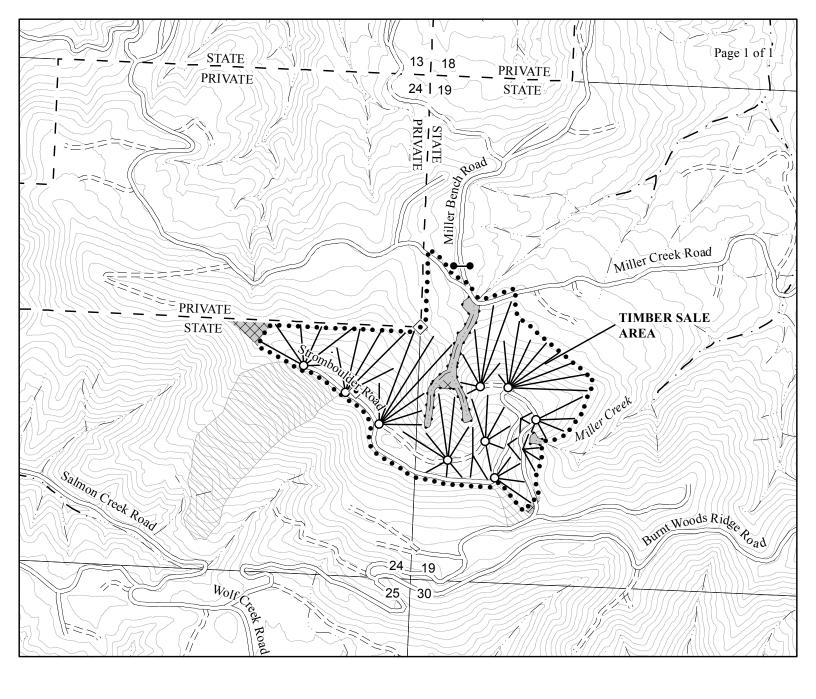
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West Oregon, NWOA	ALSEA HWY, PHILOMATH, OR 97370	(541) 929-3266

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	Project			
	Units			
	Comments		Machine Slash Piling	
	Harvesting	Ground yarding	Slash Treatment	

				Jan Feb	Feb	Mar Apr May Jun Jul	Apr	Мау	Jun	JuC	Aug	Š	٩	Aug Sep Oct Nov Dec	Nov	Dec	Date
Hauling	Comments	Units	Project	1 15	1 15	1 15	_	15 1 15 1	-	15 1 1	15 1 15	5 1	15 1	1 15 1 15 1 15	1 15	1 15	
Hauling as shown on Exhibit A	Hauling on Salmon Creek Road																
Log Hauling on Unsurfaced Roads																	

			<u></u>	Jan	Feb	Mar	Apr	Мау	Jun	Jul		Aug Sep		oct	No No	Nov Dec		Date
Project Work	Comments	Units	1 Project	15 1	15	1 15	1 15 1	1 15	1 15	1 15	~	15 1	15 1	15 1	15	~	15	
Activity in Live Streams																		
Non-project roads and landings																		
Landing and Road Construction or Improvement Operations			1a, 1b															

Activity Restricted 2 hours before sunset and 2 hours after sunrise Operation Restricted Operation Allowed



#### LOGGING PLAN

# Legend OF TIMBER SALE CONTRACT NO. WO-341-2019-W00776-01 Boundaries COLD BOULDER • • • • • Timber Sale Boundary PORTIONS OF SECTION 19, T11S, R8W, - State Forest Property Boundary & SECTION 24, T11S, R09W, W.M., Roads LINCOLN COUNTY, OREGON Surfaced Road This contraction because the second s

ot have cring or

Feet

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

Scale

Created By: Blake McKinley blake.mckinley@oregon.gov Date: 07/24/2018

NET ACRES Cable = 77

NET ACRES Tractor = 12

Stream Buffer

Posted Stream Buffer

Reforestation Area
Cable Corridors

- · Type F Stream

Type N Stream

Streams

Land Survey Monument

GatesGreen Tree Retention Area

1:12,000 1,000 0 1,000 2,000