

Sale WO-341-2020-W00376-01

District: West Oregon Date: September 26, 2019

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$245,600.25	\$9,851.82	\$255,452.07
		Project Work:	(\$24,889.00)
		Advertised Value:	\$230,563.07

9/26/19



Sale WO-341-2020-W00376-01

Date: September 26, 2019 **District: West Oregon**

Timber Description

Location: PORTIONS OF SECTION 7, T11S,R09W,W.M. LINCOLN COUNTY, OREGON

Stand Stocking: 70%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	16	0	97
Western Hemlock / Fir	19	0	95
Alder (Red)	14	0	95

Volume by Grade	2\$	3S & 4S 6"- 11"		Total	
Douglas - Fir	278	458	0	736	
Western Hemlock / Fir	10	9	0	19	
Alder (Red)	0	0	46	46	
Total	288	467	46	801	

2 9/26/19

Comments: Pond Values Used: Local Pond Values, September, 2019

Other Conifers Stumpage Price = Pond Value minus Logging Cost:

196/MBF = 534/MBF - 338/MBF

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

\$600/MBF = \$938/MBF - \$338/MBF

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

\$87/MBF = \$415/MBF - \$328/MBF

PULP (Conifer and Hardwood Price) = \$2.5/TON

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

Intermediate Support/Tail Trees: 3 supports @ \$100/support = \$300

TOTAL Other Costs (with Profit & Risk to be added) = \$300

Other Costs (No Profit & Risk added):

Equipment Cleaning (Invasive Species): \$1,200

Water Bar Dirt Roads (Project Points 5 to 6): 4 stations @ \$15.96/station = \$64

Landing Slash Piling: Landings 3 @ \$100/Landing = \$300

Landing Slash Piling and sorting out firewood: 2 Landings @ \$180/Landing = \$360

TOTAL Other Costs (No Profit & Risk added) = \$1,924

ROAD MAINTENANCE

Move-in: (Grader) \$875

Final Road Maintenance: \$7,456

TOTAL Road Maintenance: \$8,331/801 MBF = \$10.40/MBF

SLASH DISPOSAL

Move-In: \$1,290 Machine Wash: \$300

Project Work: 25 hrs @ \$150/hr = \$3,750

TOTAL Slash Disposal = \$5,340

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District: West Oregon Date: September 26, 2019

Logging Conditions

Combination#: 1 Douglas - Fir 58.42%

Western Hemlock / Fir 83.00% Alder (Red) 43.30%

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

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

loads / day: 10 bd. ft / load: 3800

cost / mbf: \$173.68

machines: Log Loader (A)

Tower Yarder (Medium)

Combination#: 2 Douglas - Fir 41.58%

Western Hemlock / Fir 17.00% Alder (Red) 56.70%

Logging System: Shovel Process: Manual Falling/Delimbing

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

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

loads / day: 12 bd. ft / load: 3800

cost / mbf: \$86.35

machines: Shovel Logger



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Logging Costs

Operating Seasons: 2.00

Profit Risk: 10%

Project Costs: \$24,889.00

Other Costs (P/R): \$300.00

Slash Disposal: \$5,340.00

Other Costs: \$1,924.00

Miles of Road

Road Maintenance:

\$10.40

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

Hauling Costs

Species	\$/MBF	Trips/Day	MBF / Load		
Douglas - Fir	\$108.73	2.0	4.5		
Western Hemlock / Fir	\$110.84	2.0	4.5		
Alder (Red)	\$134.80	2.0	3.7		



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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										
\$137.36	\$10.71	\$10.96	\$111.99	\$0.37	\$27.14	\$6.67	\$2.00	\$2.40	\$309.60	
Western H	Western Hemlock / Fir									
\$158.83	\$10.92	\$10.96	\$116.38	\$0.37	\$29.75	\$6.67	\$2.00	\$2.40	\$338.28	
Alder (Red)										
\$124.17	\$10.92	\$10.96	\$141.54	\$0.37	\$28.80	\$6.67	\$2.00	\$2.40	\$327.83	

Specie	Amortization	Pond Value	Stumpage	Amortized	
Douglas - Fir	\$0.00	\$638.95	\$329.35	\$0.00	
Western Hemlock / Fir	\$0.00	\$506.63	\$168.35	\$0.00	
Alder (Red)	\$0.00	\$542.00	\$214.17	\$0.00	



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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	736	\$329.35	\$242,401.60		
Western Hemlock / Fir	19	\$168.35	\$3,198.65		
Alder (Red)	46	\$214.17	\$9,851.82		

Gross Timber Sale Value

Recovery: \$255,452.07

Prepared By: Cody Valencia Phone: 541-929-3266

SUMMARY OF ALL PROJECT COSTS

Sale Name:	Bear Claw			Date: Time:	September 2019 11:28	
Project #1 - Road	<u>Improvement</u>					
Road Segment		<u>Length</u>		Cost		
1 to 2		243.1 sta		\$10,910		
3 to 4		37.2 sta		\$562		
5 to 6		4.0 sta		\$541		
7 to 8		29.0 sta		\$4,114		
9 to 10		2.5 sta		\$4,115		
11 to 12		8.4 sta		\$339		
13 to 14		5.2 sta		\$190		
	TOTALS	329.4 sta				\$20,771
Project #2 - Move			Cost	On-site move	<u>e</u>	
Excavator, C325 of	•		\$1,450	\$140.00		
Grader, Cat 14-G	or equiv.		\$875			
Vibratory roller			\$875			
Road Brusher	TOTAL		\$778		_	#4.440
	TOTAL					\$4,118

GRAND TOTAL \$24,889

Compiled by Leo Williamson Date 09/26/2019

	Bear Claw 1 to 2 (Surfaced)		Project #	1	LENGTH	improve		243.1 sta
IMPROVEN		1.2 mile		•			• • • • •	
	Brush road (medium) Sta. 126+40 to Sta. 188+90)		@	\$1,100.00	/mile	=	\$1,320	
Brush road	(heavy) 0 to Sta. 243+10)	1.0 mile	@	\$1,400.00	/mile	=	\$1,400	
Remove so brushing de	,	116.7 sta	@	\$15.40	/sta	=	\$1,797	
Shape surfa		116.7 sta	@	\$20.63	/sta	=	\$2,408	
Compact su	ubgrade	116.7 sta	@	\$16.00	/sta	=	\$1,867	
Spot grade	0 to Sta. 243+10)	10.0 sta	@	\$20.63	/sta	=	\$206	
Spot compa	to Sta. 126+40) action to Sta. 126+40)	10.0 sta	@	\$16.00	/sta	=	\$160	
					TOTAL IM	IPROVEME	ENT =	\$9,158
SURFACIN Spot rock (Sta. 126+4	G -0 to Sta. 243+10)		80 cy of		Cost/yd \$20.40	=	\$1,632	
(0.0.1.1201.1	0 10 0101 2 10 1 10)				TOTAL ROCK COST =			\$1,632
SPECIAL P Clean out co	ulverts	3	culverts	@	\$25.00	ea =	\$75	
Cut culvert	outlet	1	hrs	@	\$45.00	/hr =	\$45	
(Sta. 179+4	.0)			TOTAL SP	ECIAL PRO	DJECTS CO	OST =	\$120
Compiled by Date:	y:	Leo Williamson Sep 26, 2019	n		GRAND T	OTAL ===	==>	\$10,910

SALE	Bear Cla	W		Project #	1	LENGTH	improve		37.2 sta
ROAD	3 to 4	(Surfac	ed)	•			·		
IMPROVEN	MENT								
Brush road	` ,		0.2 mile	@	\$1,100.00	/mile	=	\$220	
(Sta. 26+90 Remove so	d and	ŕ	10.3 sta	@	\$15.40	/sta	=	\$159	
brushing de (Sta. 26+90	•								
Spot grade (Sta. 0+00 t		+20)	5.0 sta	@	\$20.63	/sta	=	\$103	
Spot compa	action	,	5.0 sta	@	\$16.00	/sta	=	\$80	
(Sta. 0+00 t	io Sta. 37-	+20)							
						TOTAL IM	IPROVEME	NT =	\$562
Compiled by	y:		Leo Williamson	1					
Date:			Sep 26, 2019			GRAND T	OTAL ===:	==>	\$562

SALE	Bear Claw			Project #	1	LENGTH	improve		4.0 sta
ROAD	5 to 6	(Unsurfaced)							
IMPROVEMENT									
Brush road (heavy)			0.08 mile	@	\$1,400.00	/mile	=	\$112	
Remove sod and			4.0 sta	@	\$15.40	/sta	=	\$62	
brushing debris (with	n grader)		4.0 -1-	•	# 00.00	1-1-		# 00	
Shape surface (with grader)			4.0 sta	@	\$20.63	/sta	=	\$83	
Compact subgrade			4.0 sta	@	\$16.00	/sta	=	\$64	
(with vibratory roller))		014	Ü	Ψ10.00	7014		Ψ0.	
,						TOTAL IM	IPROVEM	ENT =	\$321
SURFACING					Size	Cost/yd			
Junction Rock			10	cy of	3"-0"	\$20.15	=	\$202	
(Sta. 0+00 to Sta. 0-				_					
Process surfacing (v	with grader)		0.5 sta	@	20.63	/sta	=	\$10	
Compact surfacing			0.5 sta	@	16.00	/sta	=	\$8	
(with vibratory roller))					TOTAL RO	JCK CUS.	т_	\$220
						TOTALIK	JCK 003	. –	ΨΖΖΟ
Compiled by:		L	eo Williamsor	า					
Date:		S	ep 26, 2019			GRAND T	OTAL ===	:==>	\$541

SALE ROAD	Bear Claw 7 to 8 (Sur		Project #	1	LENGTH	improve		29.0 sta
EXCAVATIO	N	With C325 or e	quivalent					
Construct Turnout/Turn around (Sta. 26+90)	1	1 hr	@	\$140.00	/hr	=	\$140	
					TOTAL EX	(CAVATION :	=	\$140
IMPROVEME	ENT							
Re-open roa (Sta. 18+40 t		10.6 sta	@	\$15.40	/sta	=	\$163	
Re-open Lan (with grader)	nding	1 hrs	@	\$114.00	/hr	=	\$114	
Shape surface	ce	29.0 sta	@	\$20.63	/sta	=	\$598	
(with grader) Compact sur (with vibrator	face	29.0 sta	@	\$16.00	/sta	=	\$464	
					TOTAL IM	PROVEMEN	T =	\$1,339
SURFACING Turnaround r Spot rock Landing rock	rock (Sta. 26	80	cy of cy of cy of	Size 3"-0" 1½"-0" Jaw-Run	Cost/yd \$20.15 \$20.40 \$19.15	= = =	\$403 \$1,632 \$575	
Lariang rook	(00	oy or	oaw itan		OCK COST =	·	\$2,610
					TOTALIK	JCK 0031 =		Ψ2,010
SPECIAL PR Clean out cu (inlets and ou	lverts	1	culvert	@	\$25.00	ea =	\$25	
				TOTAL SPE	ECIAL PRO	JECTS COS	T =	\$25
Compiled by Date:		Leo Williamsor Sep 26, 2019	1		GRAND T	OTAL ====	>	\$4,114

SALE ROAD	Bear Claw 9 to 10	/ (Surfaced)	Project #	1	LENGTH	improve)	2.5 sta
EXCAVAT Reconstru and open	ct Landing	With C325 or e 1.5 hr	quivalent @	\$140.00	/hr	= (CAVAT	\$210 TON =	\$210
IMPROVE	MENT							
Re-open re (with grade		2.5 sta	@	\$15.40	/sta	=	\$39	
Shape sub	ograde	2.5 sta	@	\$20.63	/sta	=	\$52	
Compact s (with vibra	subgrade	2.5 sta	@	\$16.00	/sta	=	\$40	
Shape sur (with grade	face	2.5 sta	@	\$20.63	/sta	=	\$52	
Compact s (with vibra	surface	2.5 sta	@	\$16.00	/sta	=	\$40	
					TOTAL IM	PROVE	MENT =	\$223
SURFACION Base rock Surface rock Landing rock Junction rock	(8") ock (2" lift) ock	30 40	cy of cy of cy of cy of	Size Jaw-Run 3"-0" Jaw-Run 1½"-0"	Cost/yd \$19.15 \$20.15 \$19.15 \$20.40	= = = =	\$2,107 \$605 \$766 \$204	
Compiled	h. a	Loo Williams sa			TOTAL RO	оск со	ST =	\$3,682
Compiled Date:	by:	Leo Williamson Sep 26, 2019			GRAND T	OTAL =	===>	\$4,115

SALE Bear Claw Project # 1 LENGTH improve 8.4 sta

ROAD 11 to 12 (Surfaced)

IMPROVEMENT

Brush road (heavy) 0.15 mile @ \$1,400.00 /mile = \$210 Remove sod and 8.4 sta @ \$15.40 /sta = \$129

brushing debris (with grader)

TOTAL IMPROVEMENT = \$339

Compiled by: Leo Williamson

Date: Sep 26, 2019 **GRAND TOTAL =====> \$339**

SALE Bear Claw Project # 1 LENGTH improve 5.2 sta ROAD 13 to 14 Surfaced

IMPROVEMENT

Brush road (medium) 0.1 mile @ \$1,100.00 /mile = \$110 Remove sod and 5.2 sta @ \$15.40 /sta = \$80

brushing debris (with grader)

15.4 TOTAL IMPROVEMENT = \$190

Compiled by: Leo Williamson

Date: Sep 26, 2019 **GRAND TOTAL =====>** \$190

ROAD SEGMENT	1 to 2			POINT T	O POINT	Sta. to	Sta.		
			5 11 (1 t	o 2	0+00 to	243+10	TOTAL	TOTAL
Application	Rock Size and Type	Location	Depth of Rock (inches)	Volume (CY) per		Number of		VOLUME (CY)	VOLUME (TONS)
Spot rock	1½"-0"	As directed by STATE	N/A	10	Load	8	Loads	80	108

	ROAD SEGMENT	5 to 6			POINT T	O POINT	Sta. to	Sta.		
				D 11 1	5 t	o 6	0+00 to	0+50	TOTAL	TOTAL
	Application	Rock Size and Type	Location	Depth of Rock (inches)	Volume	(CY) per	Numb	er of	VOLUME (CY)	VOLUME (TONS)
S	oot rock	3"-0"	0+00 to 0+50	N/A	10	Load	1	Loads	10	14

ROAD SEGMENT	7 to 8			POINT T	O POINT	Sta. to	Sta.		
			Don'th of	7 t	o 8	0+00 to	29+00	TOTAL	TOTAL
Application	Rock Size and Type	Location	Depth of Rock (inches)	Volume	(CY) per	Numb	er of	VOLUME (CY)	VOLUME (TONS)
Spot Rock	1½"-0"	As directed by STATE	N/A	10	Load	8	Loads	80	108
Turnout rock	3"-0"	26+90	N/A	20	Turnout	1	Turnouts	20	27
Landing rock	Jaw-Run	29+00	N/A	30	Landing	1	Landings	30	41

ROAD SEGMENT	9 to 10			POINT T	O POINT	Sta. to	Sta.		
			,	9 to	10	0+00 to	2+50	TOTAL	TOTAL
Application	Rock Size and Type	Location	Depth of Rock (inches)	Volume	(CY) per	Numb	er of	VOLUME (CY)	VOLUME (TONS)
Base rock	Jaw-Run	0+00 to 2+50	8	44	Station	2.5	Stations	110	149
Surface rock	3"-0"	0+00 to 2+50	2	11	Station	2.5	Stations	30	41
Landing rock	Jaw-Run	2+50	N/A	40	Landing	1	Landings	40	54
Junction Rock	1½"-0"	0+00 to 0+50	N/A	10	Junction	1	Junction	10	14

ROCK CONVERSION FACTORS

Size	3/4-0" 1 35	1 1/2-0	3-0 1 35	1 25	jaw-run	pit run
Tons/CY	1.33	1.33	1.33	1.33	1.33	1.33

(Conversion factors from Hardrock Quarry)

	Maintenance Rock Volumes in CY							
Rock Size	1 1/2-0"	3-0"	jaw-run					
Rock Totals CY	200	-	-					
Rock Totals TONS	270	-	-					

TOTAL ROCK VOLUMES for Project No. 1							
Rock Size	1 1/2-0"	3-0"	jaw-run				
Rock Totals CY	170	60	180				
Rock Totals TONS	230	81	243				

Rock Haul Cost Computation

ROAD NAME: A	Bear Claw All Rocked roads Hard Rock Hwy 20	DATE: CLASS: 10 CY	Sep 26, 2 Medium truck	019		
TIME Computat	ion:					
Road speed ti						
1.	55 MPH	53.6	MRT		58.5	minutes
2.	50 MPH		MRT		0.0	minutes
3.	45 MPH		MRT		0.0	minutes
4.	40 MPH		MRT			minutes
5.	35 MPH		MRT		0.0	
6.	30 MPH		MRT	0.00	0.0	
7.	25 MPH	6.8	MRT			minutes
8. 9.	20 MPH 15 MPH	0.5	MRT MRT			minutes minutes
10.	10 MPH	0.5	MRT		0.0	
11.	05 MPH		MRT		0.0	
<u> </u>	00 11111				0.0	miliaces
Dump or sprea	d time per RT				0.50	minutes
	ing cycle time f	or th	is setting			
(100% effi	- -		-		77.30	minutes
Operator effi	ciency correctio	n	0.85		90.94	minutes
Job efficienc	y correction		0.90		101.04	minutes
Truck capacit			10.00		10.10	•
-	delay time per				0.25	, -
TIME (minutes) per cubic yard	i			10.35	min/CY
COCE CV -						
COST per CY c	omputation uck and operator	ner l	hour		\$68.88	/hr.
	uck and operator				\$1.15	/min
0050 01 01	ack and operator	. pcr i	milita e e		41.10	/ 111111
Cost per CY					\$11.90	/CY
					,	,
Spread and co	mpact Water	truck	k, Grader & Roll	ler	\$1.50	/CY
			Cost Delivered		Cost Deliv	ered
	Cost/Yd (Pit)		w/o processing		with proce	ssing
1½ - 0"	\$ 8.50		\$20.40		\$21.90	
3 - 0"	\$ 8.25		\$20.15		\$21.65	
Jaw Run	\$ 7.25		\$19.15		\$20.65	
Pit-Run	\$ 6.50		\$18.40		\$19.90	

SUMMARY OF MAINTENANCE COST

SALE	Bear Claw	- Final Maintenance Cost Estimate
		(Costed in appraisal, not in project costs)

Grading Move-in \$ 87	875
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Road Segment	Length	Cost/Sta	Cost	Mileage
1 to 2	160.8	\$15.40	\$2,476.32	3.05
3 to 4	26.9	\$15.40	\$414.26	0.51
7 to 8	29.0	\$15.40	\$446.60	0.55
9 to 10	2.5	\$15.40	\$38.50	0.05
Total	219.2		\$3,375.68	4.16

Maintenance Rock:

1½-0"	Volume 200	Cost/CY \$20.40	Cost \$4,080.00
Grand Total			\$ 8,331
TS Volume	801	MBF	
Cost / MBF =			\$10.40

NOTES: Spot rocking and grading shall be performed on the following road segments as part of final maintenance: Points 1 to 2, 3 to 4, 7 to 8, and 9 to 10.

Bear Claw (WO-341-2020-W00376-01) FY 2020

TIMBER CRUISE REPORT

1. Sale Area Location: Portions of Section 7, T11S, R9W, W.M., Lincoln County, Oregon.

2. Fund Distribution:

a. Fund

BOF 100%

b. Tax Code

3. Sale Acreage by Area:

Area	Treatment	Gross Acres	Stream Buffers	Existing Roads	Green Tree Retention Acres	Net Sale Acres	Acreage Comp. Method
1	Modified Clearcut	38	2	1	<1	35	Ortho photo, GIS, GPS
2	Modified Clearcut	10	0	<1	0	10	Ortho photo, GIS, GPS
Total		48	2	1	0	45	

- 4. Cruisers and Cruise Dates: All sale areas were cruised by Aaron McEwen, Leo Williamson, Zane Sandborg, and Zena Greenwald. Both areas were cruised in July of 2019.
- 5. Cruise Method and Computation: All Areas of the sale were cruised using variable radius plot sampling using a 20 BAF for conifers, and a 20 BAF for hardwoods. A total of 30 plots were taken in Area 1 consisting of 17 measure and 13 count plots 3 chains by 3 chains apart. A total of 13 plots were taken in Area 2 consisting of 7 measure and 6 count plots spaced 3 chains by 3 chains apart.
- 6. Digital ortho photos, LiDar, and ArcMap 10.6 were used to map the boundaries for the sale, and ArcMap 10.6 was used to determine gross and net acreage.
- 7. **Measurement Standards:** 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.
- 8. Timber Description: Timber in the sale areas consists of 44-49 year-old planted Douglas-fir and natural hardwoods. The average DBH of Douglas fir in Area 1 is approximately 17 inches, approximately 19 inches for Western hemlock, and approximately 13 inches DBH for red alder. The average volume per acre of Douglas fir to be harvested (net) in Area 1 is approximately 15 MBF, and .7 MBF of red alder. The average DBH of Douglas fir for Area 2 is approximately 16 inches, and approximately 15 inches DBH for red alder. The average volume per acre of Douglas fir to be harvested (net) in Area 2 is approximately 22 MBF, and 2 MBF of red alder. Western redcedar are reserved from cutting in both sale areas.

9. Statistical Analysis: Statistics shown are for all species combined, net board feet.

Area	Target CV	Target SE	Actual CV	Actual SE
1	.H.		29.5	5.5
2		-	41.7	12.0

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

Area	Species	Gross Cruise Volume	Cruised D&B	Cruised D&B (MBF)	Hidden D&B	Hidden D&B (MBF)	Net Sale Volume
	Douglas-fir	555	5.6%	(31)	1%	(6)	518
1	Red alder	25	5.0%	(1)	1%	(<1)	24
	Western Hemlock	22	13.1%	(3)	1%	(<1)	19
_	Douglas-fir	229	3.8%	(9)	1%	(2)	218
2	Red alder	23	3.1%	(1)	1%	(<1)	22
Total		854	5.2%	(45)	1%	(9)	801

Grade % Breakdown / Volume by Grade

Area	Species	Ave. DBH	Tot. Net Vol.	2-Saw	3-Saw	4-Saw	SM	Camp Run
	Douglas-fir	17	Grade %	38%	48%	14%	: :	
	Douglas-III	17	518	197	249	72	1 2	150
1	Red alder	12	Grade %	H)		-	-	100%
1	Red alder	13	24	- 3	:-	-) = 0	24
	Wt11-	10	Grade %	53%	36%	11%		
	Western hemlock	19	19	10	7	2	-	*
	Danielas Cu	16	Grade %	37%	53%	10%	. 	-
	Douglas-fir	16	218	81	116	21	i n	
2	D-J-1J	1.5	Grade %	-	.=	-	-	100%
	Red alder	15	22	=>	18	-		22
	Total All Avens		Grade %	36%	46%	12%		6%
	Total All Areas		801	288	372	95		46

Attachments:

- Project Statistics (All Areas)- Species/Sort/Grade-BF Vol. (All Areas)
- Stand Table Summary (All Areas)
- Log Stock Table (All Areas)

Prepared by: Leo Williamson

Date: 9/6/2019

				OJECT S ROJECT		ISTICS ARCLAW			PAGE DATE	1 9/26/201
TWP RGE	SC TRA	CT	TYPE		A	CRES	PLOTS	TREES	CuFt	BdFt
11S 09	07 AREA	AIRERUN	CC			35.00	30	235	1	W
				TREES		ESTIMATED TOTAL		PERCENT SAMPLE		
	PLOTS	TREES		PER PLOT		TREES		TREES		
TOTAL	30			7.8						
CRUISE	17	129		7.6		3,678		3.5		
DBH COUN REFOREST	1									
COUNT	13	98		7.5						
BLANKS										
100 %										
			STA	AND SUMM	IARY					
	SAMPLE		AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET
DE	TREES		DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC
DF R ALDER	10:		16.8 13.3	61 26	33.0 2.7	135.3 10.0	15,854 705	(C 950000000	4,593 210	4,593 210
WR CEDAR		8 3.9	16.8	42	1.5	6.0	404		165	165
WHEMLOC		6 2.4	18.8	66	1.1	4.7	620		177	177
S SPRUCE		1 .5	15.0	15	0.2	.7				
TOTAL	129	9 105.1	16.5	57	38.5	156.7	17,583	16,551	5,145	5,145
		OF THE SAMP		IME WILL	эг илт	HINI THE SAN	(DIEEDD	OR		
	0.1 111013	001 01 100 1	TIE VOLC	THE WILL	JL WII.					
CL 68.1	COE		_	SAMPLE			i i	# OF TREES		INF. POP
SD: 1.0	VAR	EUROSE AMERICAN PROPERTY AND ADMINISTRATION OF THE	I	OW 190	AVG 201	HIGH		5	10	1
DF R ALDER	51. 91.			84	117	211 149				
WR CEDAR	64.			87	115	143				
WHEMLOCI	47.	1 21.0		204	258	312				
S SPRUCE TOTAL	57	7 51		170	100	198		122	22	1
POLICE CONTROL SECURITION OF THE SECURITION OF T	57.7	W PAGE-104		179	189			133	33	
CL 68.1 SD: 1.0	COE VAR		T	SAMPLE OW	E TREE AVG	S - CF HIGH	ī	FOF TREES 1	REQ. 10	INF. POP.
DF 1.0	42.		M -	58	61	63			10	
	82.									
R ALDER	02.	8 24.9		28	38	47				
WR CEDAR	55.	8 21.0		41	53	47 64				
WR CEDAR WHEMLOCE	55.	8 21.0				47				
WR CEDAR WHEMLOCE S SPRUCE	55. 50.	8 21.0 6 22.5		41 67	53 86	47 64 106		98	25	1
WR CEDAR WHEMLOCH S SPRUCE TOTAL	55. 50. 49.	8 21.0 6 22.5 6 4.4		41 67 56	53 86 59	47 64			25 REO	
WR CEDAR WHEMLOCK S SPRUCE TOTAL CL 68.1	55. 50. 49.6 COE	8 21.0 6 22.5 6 4.4	ī	41 67 56 TREES/A	53 86 59 ACRE	47 64 106	į	FOF PLOTS I	REQ.	INF. POP.
WR CEDAR WHEMLOCK S SPRUCE TOTAL	55. 50. 49.	8 21.0 6 22.5 6 4.4 2FF 2.% S.E.%	I	41 67 56 TREES/A	53 86 59	47 64 106				INF. POP.
WR CEDAR WHEMLOCK S SPRUCE TOTAL CL 68.1 SD: 1.0 DF R ALDER	55. 50. 49.6 COE VAR 40. 253.	8 21.0 6 22.5 6 4.4 FFF 8.% S.E.% 1 7.4 6 47.1	I	41 67 56 TREES/A OW 81 5	53 86 59 ACRE AVG 88 10	47 64 106 <i>61</i> HIGH 94 15	į	FOF PLOTS I	REQ.	INF. POP.
WR CEDAR WHEMLOCK S SPRUCE TOTAL CL 68.1 SD: 1.0 DF R ALDER WR CEDAR	55. 49.6 COE VAR 40. 253.4 284.	8 21.0 6 22.5 6 4.4 FFF 8.% S.E.% 1 7.4 6 47.1 4 52.8	I	41 67 56 TREES/A OW 81 5	53 86 59 ACRE AVG 88 10 4	47 64 106 <i>61</i> HIGH 94 15 6	7	FOF PLOTS I	REQ.	<i>I</i> INF. POP.
WR CEDAR WHEMLOCK S SPRUCE TOTAL CL 68.1 SD: 1.0 DF R ALDER WR CEDAR WHEMLOCK	55. 49.6 COE VAR 40. 253.6 284.6 473.	8 21.0 6 22.5 6 4.4 FFF 8.% S.E.% 1 7.4 6 47.1 4 52.8 3 87.9	I	41 67 56 TREES/A OW 81 5	53 86 59 ACRE AVG 88 10	47 64 106 <i>61</i> HIGH 94 15 6 5	j	FOF PLOTS I	REQ.	INF. POP.
WR CEDAR WHEMLOCK S SPRUCE TOTAL CL 68.1 SD: 1.0 DF R ALDER WR CEDAR WHEMLOCK S SPRUCE	55. 49.6 COE VAR 40. 253.4 284.	8 21.0 6 22.5 6 4.4 EFF 8.% S.E.% 1 7.4 6 47.1 4 52.8 3 87.9 7 101.7	1	41 67 56 TREES/A OW 81 5	53 86 59 ACRE AVG 88 10 4 2	47 64 106 <i>61</i> HIGH 94 15 6	7	FOF PLOTS I	REQ.	INF. POP.
WR CEDAR WHEMLOCK S SPRUCE TOTAL CL 68.1 SD: 1.0 DF R ALDER WR CEDAR WHEMLOCK S SPRUCE TOTAL	55. 49.6 COE VAR 40. 253. 284. 473. 547. 31.8	8 21.0 6 22.5 6 4.4 FFF 8.% S.E.% 1 7.4 6 47.1 4 52.8 3 87.9 7 101.7 8 5.9	I	41 67 56 TREES/A OW 81 5 2 0	53 86 59 ACRE AVG 88 10 4 2 1 105	47 64 106 61 HIGH 94 15 6 5 1		# OF PLOTS) 5 42	10	INF. POP.
WR CEDAR WHEMLOCK S SPRUCE TOTAL CL 68.1 SD: 1.0 DF R ALDER WR CEDAR WHEMLOCK S SPRUCE TOTAL CL 68.1	55. 49.6 COE VAR 40. 253.6 284.6 473.3 547.7 31.8	8 21.0 6 22.5 6 4.4 FFF 8.% S.E.% 1 7.4 6 47.1 4 52.8 3 87.9 7 101.7 8 5.9		41 67 56 TREES/A OW 81 5 2 0 99 BASAL A	53 86 59 ACRE AVG 88 10 4 2 1 105	47 64 106 61 HIGH 94 15 6 5 1		FOF PLOTS I	10	INF. POP. 1
WR CEDAR WHEMLOCK S SPRUCE TOTAL CL 68.1 SD: 1.0 DF R ALDER WR CEDAR WHEMLOCK S SPRUCE TOTAL CL 68.1	55. 49.6 COE VAR 40. 253. 284. 473. 547. 31.8	8 21.0 6 22.5 6 4.4 EFF 8.% S.E.% 1 7.4 6 47.1 4 52.8 3 87.9 7 101.7 8 5.9 EFF 8.% S.E.%		41 67 56 TREES/A OW 81 5 2 0 99 BASAL A	53 86 59 ACRE AVG 88 10 4 2 1 105	47 64 106 61 HIGH 94 15 6 5 1 111		FOF PLOTS I	10 10 REQ.	INF. POP.
WR CEDAR WHEMLOCK S SPRUCE TOTAL CL 68.1 SD: 1.0 DF R ALDER WR CEDAR WHEMLOCK S SPRUCE TOTAL CL 68.1 SD: 1.0 DF R ALDER	55 49.6 COE VAR 40 253 284 473 547 31.8 COE VAR 36 239	8 21.0 6 22.5 6 4.4 FFF 8.% S.E.% 1 7.4 6 47.1 4 52.8 3 87.9 7 101.7 8 5.9 FF 8.% S.E.% 5 6.8 3 44.4		41 67 56 TREES/A OW 81 5 2 0 99 BASAL A OW 126 6	53 86 59 ACRE AVG 88 10 4 2 1 105 AREA/A AVG 135 10	47 64 106 61 HIGH 94 15 6 5 1 111 CRE HIGH 145 14		FOF PLOTS I	10 10 REQ.	INF. POP.
WR CEDAR WHEMLOCK S SPRUCE TOTAL CL 68.1 SD: 1.0 DF R ALDER WR CEDAR WHEMLOCK S SPRUCE TOTAL CL 68.1 SD: 1.0 DF R ALDER	55. 49.6 COE VAR 40. 253. 284. 473 547. 31.8 COE VAR 36 239 329	8 21.0 6 22.5 6 4.4 FFF 8.% S.E.% 1 7.4 6 47.1 4 52.8 3 87.9 7 101.7 8 5.9 FF 8.% S.E.% 5 6.8 3 44.4 3 61.1		41 67 56 TREES/A OW 81 5 2 0 99 BASAL A OW 126 6 2	53 86 59 ACRE AVG 88 10 4 2 1 105 AREA/A AVG 135 10 6	47 64 106 61 HIGH 94 15 6 5 1 111 CRE HIGH 145 14 10		FOF PLOTS I	10 10 REQ.	INF. POP.
WR CEDAR WHEMLOCK S SPRUCE TOTAL CL 68.1 SD: 1.0 DF R ALDER WR CEDAR WHEMLOCK S SPRUCE TOTAL CL 68.1 SD: 1.0 DF R ALDER	55. 49.6 COE VAR 40. 253. 284. 473 547. 31.8 COE VAR 36 239 329	8 21.0 6 22.5 6 4.4 EFF 8.% S.E.% 1 7.4 6 47.1 4 52.8 3 87.9 7 101.7 8 5.9 EFF 8.% S.E.% 5 6.8 3 44.4 3 61.1 3 87.9		41 67 56 TREES/A OW 81 5 2 0 99 BASAL A OW 126 6	53 86 59 ACRE AVG 88 10 4 2 1 105 AREA/A AVG 135 10	47 64 106 61 HIGH 94 15 6 5 1 111 CRE HIGH 145 14		FOF PLOTS I	10 10 REQ.	INF. POP.

TC PSTATS

PROJECT STATISTICS PROJECT BEARCLAW

PAGE

2 DATE 9/26/2019

TWP	RGE	SC	TRACT		TYPE		A	CRES	PLOTS	TREES	CuFt	BdFt
118	09	07	AREAIRER	RUN	CC			35.00	30	235	1	W
CL	68.1		COEFF			NET	BF/ACRE		9	# OF PLOTS R	EQ.	INF. POP.
SD:	1.0		VAR.%	S.E.%		LOW	AVG	HIGH		5	10	15
DF			38.9	7.2		13,890	14,971	16,053				
R AL	DER		236.7	43.9		375	670	964				
WR (CEDAR		324.9	60.3		147	371	594				
WHE	MLOCK		473.3	87.9		65	539	1,013				
S SPI	RUCE											
TOT	AL		29.5	5.5		15,644	16,551	17,458		36	9	4
CL	68.1		COEFF			NET	CUFT FT/	ACRE		# OF PLOTS R	EQ.	INF. POP.
SD:	1.0		VAR.%	S.E.%		LOW	AVG	HIGH		5	10	15
DF			38.2	7.1		4,267	4,593	4,919				
R AL	DER		245.3	45.5		115	210	306				
WR C	CEDAR		331.1	61.5		63	165	266				
WHE	MLOCK		473.3	87.9		21	177	332				
S SPF	RUCE											
TOT	AL		28.3	5.3		4,875	5,145	5,415		33	8	4

	Stand Ta	ole Summary	Page Date:	9/26/2019
35.00	Project	BEARCLAW	Time:	2:03:26PM
	Acres	35.00	Grown Year	r:
	35.00	35.00 Project	DEMICELY,	Date: 35.00 Project BEARCLAW Time:

S				Tot	Widebig Ve	S2000000 02	450	Averag	_	X40 XX	Net	Net		Totals	
Spc T	DBH	Sample Trees	FF 16'	Av Ht	Trees/ Acre	BA/ Acre	Logs Acre	Net Cu.Ft.	Net Bd.Ft.	Tons/ Acre	Cu.Ft. Acre	Bd.Ft. Acre	Tons	Cunits	MBF
DF	11	3	81	59	6.031	3.98	6.03	15.3	46.7		92	281		32	10
DF	12	3	83	69	5.068	3.98	5.07	21.0	60.0		106	304		37	
DF	13	3	88	59	4.318	3.98	4.32	21.3	60.0		92	259		32	
DF	14	3	87	76	3.723	3.98	6.21	19.4	62.0		120	385	*	42	
DF	15	8	85	81	8.649	10.61	17.30	19.1	59.4		331	1,027		116	
DF	16	15	86	82	14.254	19.90	29.46	22.2	71.6		655	2,110		229	
DF	17	17	86	89	14.310	22.56	28.62	27.8	89.4		795	2,559		278	
DF	18	15	87	89	11.262	19.90	22.52	31.3	100.7		706	2,267		247	
DF	19	13	87	91	8.760	17.25	17.52	35.3	112.7		618	1,974		216	
DF	20	8	88	91	4.865	10.61	10.34	35.6	126.5		368	1,308		129	
DF	21	2	91	97	1.103	2.65	2.21	46.5	165.0		103	364		36	
DF	22	6	89	99	3.016	7.96	6.53	47.8	160.0		313	1,045		109	
DF	23	2	84	91	.920	2.65	1.84	48.5	157.5		89	290		31	
DF	24	2	88	88	.845	2.65	2.11	43.0	164.0		91	346		32	
DF	25	2	90	108	.778	2.65	2.34	48.7	193.3		114	451		40	
DF	Totals	102	86	83	87.903	135.33	162.41	28.3	92.2		4,593	14,971		1,608	524
RA	9	1	87	17	1.886	.83	1.89	5.0	20.0		9	38		3	
RA	10	3	87	43	4.584	2.50	4.58	10.3	40.0		47	183		17	
RA	13	2	86	49	1.808	1.67	1.81	20.5	55.0		37	99		13	3
RA	18	1	87	39	.472	.83	.47	29.0	50.0		14	24		5	1
RA	20	2	87	51	.764	1.67	1.53	25.7	80.0		39	122		14	4
RA	23	2	86	53	.578	1.67	1.16	35.5	107.5		41	124		14	4
RA	26	1	86	58	.226	.83	.45	50.0	175.0		23	79		8	3
RA	Totals	12	87	41	10.317	10.00	11.88	17.7	56.3		210	670		74	23
WH	15	1	86	82	.634	.78	1.27	22.0	70.0		28	89		10	
WH	17	1	88	86	.493	.78	.99	29.5	105.0		29	104		10	4
WH	18	1	86	80	.440	.78	.88	31.5	90.0		28	79		10	3
WH	19	1	90	81	.395	.78	.79	34.5	105.0		27	83		10	3
WH	25	2	89	98	.456	1.56	.91	70.8	202.5		65	185		23	6
WH	Totals	6	88	85	2.419	4.67	4.84	36.5	111.5		177	539		62	19
RC	11	1	76	66	1.136	.75	1.14	18.0	60.0		20	68		7	2
RC	15	1	65	61	.611	.75	.61	31.0	50.0		19	31		7	1
RC	17	1	81	55	.476	.75	.48	38.0	60.0		18	29		6	1
RC	19	2	77	68	.762	1.50	1.52	29.0	65.0		44	99		15	3
RC	20	2	80	55	.688	1.50	1.03	35.7	86.7		37	89		13	3
RC	24	1	77	82	.239	.75	.48	55.0	115.0		26	55		9	2
RC	Totals	8	76	63	3.912	6.00	5.26	31.3	70.5		165	371		58	13
SS	15	1	60	17	.543	.67									1.00
SS	Totals	1	60	17	.543	.67									
Totals		129	86	78	105.094	156.67	184.39	27.9	89.8		5,145	16,551		1,801	579

TC	PSPCSTGR		S	pecies,	Sort G	rade - Boar	d Fo	ot V	olum	es (P	rojec	t)							
TI	1S R09W S07	7 ТуСС		35.00		Project: Acres	BE	35.0	CLAW	<i></i> /						Page Date Time	9/	1 26/20 :03:2	19
Spp	S So Gr T rt ad	% Net BdFt	Bd. F	t. per Acre	e Net	Total Net MBF		Log Sc	Net Boale Dia.		oot Volu	ime Log L 21-30		36-99	Ln Ft	Avera Dia In	_	g CF/ Lf	Logs Per /Acre
DF DF DF	DO2M DO3M DO4M	38 48 14	6.0 5.5 4.5	6,203 7,574 2,077	5,832 7,157 1,983	204 250 69	29	100 71	94	6	1 0 17	10 3 51	8 11 14	81 85 18	36 36 26	13 9 6	214 102 31	1.56 0.89 0.46	27.3 70.4 64.7
DF	Totals	90	5.6	15,854	14,971	524	4	57	37	2	3	12	10	75	32	8	92	0.88	162.4
RC RC RC	DO2M DO3M DO4M	29 44 27	8.0 10.9 3.8	119 184 101	110 164 97	4 6 3	22	67 78	100 33		12	10 18	40	100 50 70	38 35 28	12 8 6	188 75 39	1.98 1.14 0.50	.6 2.2 2.5
RC	Totals	2	8.3	404	371	13	6	50	44		3	9	17	70	32	7	71	0.99	5.3
WH WH WH	DO2M DO3M DO4M	53 36 11	12.9 15.0 7.1	329 229 62	287 195 58	10 7 2	37	53 63	100	47	22	36	52 43	48 100	36 40 26	13 10 5	148	1.54 1.23 0.48	1.6 1.3 2.0
WH	Totals	3	13.1	620	539	19	4	26	53	17	2	4	32	62	33	9	111	1.10	4.8
RA	DOCR	100	5.0	705	670	23		56	44		22	41	28	8	22	8	250.06	0.79	11.9
RA Tota	Totals	4	5.0	705 17,583	670 16,551	579	4	56	38	3	4	13	28 12	72	32	8	6000	0.79	11.9

TC PLOGSTVB		Log Stock Table - MBF	
T11S R09W S07 TyCC	35.00	Project: BEARCLAW Acres 35.00	Page 1 Date 9/26/2019 Time 2:03:25PM

S	So G	ŀr	Log	Gross	Def	Net	%		1	Net Vol	ıme by	Scalin	g Dian	neter in l	Inches		
Spp T					%	MBF	Spc	2-3	4-5	6-7	8-9	10-11		14-15		20-23 24-29	30-39 40+
DF	DO					2	.4							2			
DF	DO			4	10.5	4	.8							4			
DF	DO	2M	22	4	18.2	3	.6								3		
DF	DO	2M	26	4	18.8	3	.7						3				
DF	DO	2M	30	10	2.2	9	1.8						4	6		2	
DF	DO	2M	32	18	9.0	16	3.1						16				
DF	DO	2M	36	29	4.9	28	5.3						18	10			
DF	DO	2M	40	146	5.4	138	26.4						79	42	17		
DF	DO	3M	14	1		1	.2			1							
DF	DO	3M	26	4	18.2	3	.6					3					
DF	DO	3M	28	5	6.1	5	.9					5					
DF	DO	3M	32	28	6.9	26	4.9			8	8	10					
DF	DO	3M	34	2		2	.4			2							
DF	DO	3M	36	64	6.4	60	11.4			13	27	20					
DF	DO	3M	38	6		6	1.2			6							
DF	DO .	3M	40	155	4.9	148	28.2			13	11	124					
DF	DO 4	4M	12	0		0	.1		0								
DF	DO -	4M	16	3	12.5	2	.4		1	1							
DF	DO 4	4M	18	1		1	.1				1						
DF	DO 4	4M	20	9		9	1.6		4	4							
DF	DO 4	4M	21	1	33.3	1	.1			1							
DF	DO 4	4M	22	2		2	.5		1	2							
DF	DO 4		24	19		19	3.7		6	14							
DF	DO 4		26	3		3	.6		1	2							
DF	DO 4		28	2	150,000	2	.4		2	1							
DF	DO 4		30	9	6.5	8	1.5		2	6							
DF	DO 4			4	10.0	4	.8		.,	4							
DF	DO 4		32	6	12.3	5	1.0		1	5							
DF	DO 4		36	6	19.8	5	.9		2	3							
DF	DO 4		40	8	2.3	8	1.5		1	7							
DF		tals		555	5.6	524	90.5		20	93	46	161	119	65	20		
RC	DO 2			2		2	16.7						2				
RC	DO 2	2M	40	2	16.7	2	12.9	3.					2				
RC	DO 3	3M	28	1		1	4.6			1							
RC	DO 3	ЗМ	32	1		1	9.2				1						
RC	DO 3	ЗМ	35	1		1	8.2			1							

TC PLOGSTVB		Log Stock Table - MBF	
T11S R09W S07 TyCC	35.00	Project: BEARCLAW Acres 35.00	Page 2 Date 9/26/2019 Time 2:03:25PM

L						ı										
S T	20 01		Gross MBF	Def	Net	%				Scaling Dia				Tan an au an	20.20	40+
Spp T	-			%	MBF	Spc	2-3 4-5	6-7	8-9	10-11 12-1		15	16-19	20-23 24-29	30-39	40+
RC	DO 3N		2		2	No. Albertus					2					
RC	DO 3N	40	1	14.3	1	7.7		1								
RC	DO 4N	1 16	0		0	2.1	0									
RC	DO 4N	1 20	0	50.0	0	1.0	0									
RC	DO 4N	1 24	0		0	2.8	0									
RC	DO 4N	1 26	0		0	1.9		0								
RC	DO 4M	1 36	2		2	18.4		2								
RC	Total	ls	14	8.3	13	2.2	1	5	1		6					
WH	DO 2N	1 34	6	5.9	5	27.7					5					
WH	DO 2M	1 40	6	19.4	5	25.5					2		2			
WH	DO 3M	1 39	1	14.3	0	2.5		0								
WH	DO 3N	1 40	7	15.0	6	33.6		0	3				3			
WH	DO 4M	1 20	0		0	2.4	0									
WH	DO 4M	1 24	0		0	2.2		0								
WH	DO 4M	1 30	0	33.3	0	1.6	0									
WH	DO 4M	1 32	1		1	4.6		1								
WH	Total	s	22	13.1	19	3.3	1	2	3		8		6			
RA	DO CF	12	2		2	6.6		2								
RA	DO CR	16	2	6.0	2	9.0		2								
RA	DO CE	20	2		2	6.8		2								
RA	DO CR	22	0		0	1.7		0								
RA	DO CR	24	4		4	18.9					2		2			
RA	DO CR	28	4	10.4	3	14.7		2			2					
RA	DO CR	29	2	33.3	Ī	6.0						1				
RA	DO CR	32	7		7	28.0		4					3			
RA	DO CR	36	2		2	8.1		2								
RA	Total	s	25	5.0	23	4.0		13			4	1	5			
Total	All Speci	ies	615	5.9	579	100.0	22	113	50	161 13	7	66	31			

TC PS	TATS	3377				OJECT ROJECT		ISTICS ARCLAW			PAGE DATE	1 9/26/2019
TWP	RGE	SC T	RACT		TYPE		AC	CRES	PLOTS	TREES	CuFt	BdFt
118	09	07 AI	REA2RI	ERUN	CC			10.00	13	123	1	W
						TREES		ESTIMATED TOTAL		ERCENT SAMPLE		
		PLO	TS	TREES		PER PLOT	Γ	TREES		TREES		
TOT	AL.	8. 2000	13	123		9.5						
CRU			7	54		7.7		1,334		4.0		
DBH	COUNT							200 4. 10 Juni				
REFO	OREST											
COU	NT		6	66		11.0						
BLA												
100 %	%					-						
		22 112 122			1100000	AND SUM			120012020	1274		
		SAMP TRE		TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
DF			48	115.9	16.0	62	40.4	161.5	22,853	21,966	6,091	6,091
R AL	DER		6	17.5	15.0	48	5.6	21.5	2,309	2,236	692	692
TOT	AL		54	133.4	15.9	60	46.0	183.1	25,162	24,202	6,783	6,783
CI	68		ES OU	T OF 100 T	HE VOLU	130		HIN THE SAN			DEO	INIE DOD
CL	68.1			C T 0/	1		E TREE		7.	OF TREES		INF. POP.
SD: DF	1.0		AR.% 35.4	S.E.% 19.5	,	286	AVG 355	HIGH 424		<u>J</u>	10	15
R AL	DER		71.0	31.6		120	175	230				
TOT			36.6	18.6		273	335	397		746	186	83
CL	68.1		OEFF	450,5719,579		CAMDI	E TREE	S CF	#	OF TREES	DEO	INF. POP.
SD:	1.0		AR.%	S.E.%	I	LOW	AVG	HIGH	TI .	5	10	15
DF	1.0		09.0	15.7		76	90	104				
R AL	DER		68.2	30.4		38	54	71				
TOT	AL	10	09.0	14.8		73	86	99		475	119	53
CL	68.1	С	OEFF			TREES	ACRE		#	OF PLOTS	REQ.	INF. POP.
SD:	1.0	V	AR.%	S.E.%	I	LOW	AVG	HIGH		5	10	15
DF			61.9	17.8		95	116	137				
R AL			60.2	46.2		9	17	26				
TOT	AL	4	15.8	13.2		116	133	151		90	23	10
CL	68.1	C	OEFF			BASAL	AREA/A	CRE	#	OF PLOTS	REQ.	INF. POP.
SD:	1.0	V	AR.%	S.E.%	I	LOW	AVG	HIGH		5	10	15
DF			51.4	14.8		138	162	185				
R AL			62.9	47.0		11	22	32			12000	
TOTA	AL		39.3	11.3		162	183	204		67	17	7
CL	68.1	C	OEFF			NET BE	/ACRE		#	OF PLOTS I		INF. POP.
SD:	1.0		AR.%	S.E.%		OW	AVG	HIGH		5	10	15
DF			49.7	14.3			21,966	25,113				
R ALI			65.5	47.7	×-2	1,170	2,236	3,303		75	10	
TOTA			(1.7	12.0	2		24,202	27,114		75	19	8
CL	68.1		OEFF	_			JFT FT/A		#	OF PLOTS I		INF. POP.
SD:	1.0		AR.%	S.E.%	I	OW	AVG	HIGH		5	10	15
DF	DED		50.0	14.4		5,213	6,091	6,969				
R ALI			65.5	47.7		362 5.080	692	1,022		71	19	8
TOTA			0.6	11.7		5,989	6,783	7,577		71	18	

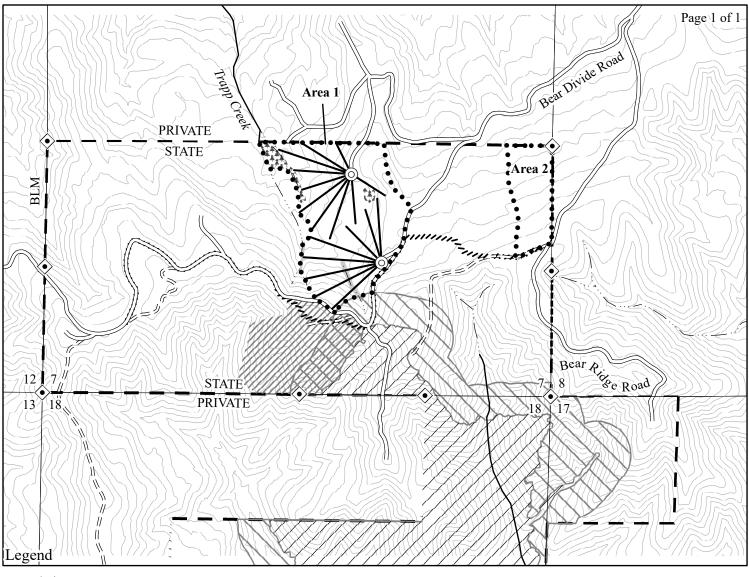


TC PSTNDSUM		Stand Tal	ole Summary	Page Date:	1 9/26/2019
T11S R09W S07 TyCC	10.00	Project	BEARCLAW	Time:	2:01:45PM
		Acres	10.00	Grown Year	:

S Spc T	рвн	Sample Trees		Tot Av Ht	Trees/ Acre	BA/ Acre	Logs Acre	Averag Net Cu.Ft.	e Log Net Bd.Ft.	Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Tons	Totals Cunits	MBF	
DF	9	1	76	48	7.618	3.37	7.62	8.0	20.0		61	152			6	2
DF	10	2	87	79	12.341	6.73	12.34	13.5	50.0		167	617			7	6
DF	11	1	88	87	5.099	3.37	5.10	19.0	70.0		97	357			0	4
DF	13	5	85	75	18.255	16.83	32.86	15.4	47.8		507	1,570				16
DF	14	6	89	91	18.889	20.19	34.63	20.1	70.9		696	2,456				25
DF	15	1	86	101	2.742	3.37	5.48	22.5	75.0		123	411			2	4
DF	16	4	85		9.641	13.46	19.28	26.7	95.0		516	1,832				18
DF	17	7	86	104	14.945	23.56		31.8	114.3		950	3,416				34
DF	18	2	86	102	3.809	6.73	7.62	34.8	122.5		265	933			6	9
DF	19	3	81	and the same of th	5.128	10.10	10.26	37.2	113.3		381	1,162				12
DF	20	6	87	104	9.255	20.19	21.60	38.1	130.0		822	2,807				28
DF	21	1	92	96	1.399	3.37	4.20	28.7	106.7		120	448			2	4
DF	23	2	82	110	2.333	6.73	7.00	40.0	138.3		280	968				10
DF	26	1	92		.913	3.37	2.74	55.7	243.3		152	666			5	7
DF	27	1	81		.846	3.37	2.54	50.7	160.0		129	406		1		4
DF	28	1	85	102	.787	3.37	2.36	57.0	230.0		135	543			3	5
DF	30	1	86	ewanes.	.686	3.37	2.06	74.3	320.0		153	658		1		7
DF	37	1	86	2200	.451	3.37	1.35	125.3	556.7		169	753		1		8
DF	39	2	87	148	.811	6.73	2.43	151.0	743.3		368	1,809		3	7 1	18
DF	Totals	48	86	91	115.949	161.54	211.35	28.8	103.9		6,091	21,966		60	9 22	20
RA	12	2	87	75	9.141	7.18	13.71	15.0	50.0		206	686		2	1	7
RA	14	1	86	83	3.358	3.59	6.72	18.5	60.0		124	403		1	2	4
RA	17	1	86	72	2.277	3.59	4.55	25.0	80.0		114	364		1	1	4
RA	20	1	86	79	1.645	3.59	3.29	38.0	110.0		125	362		1	3	4
RA	25	1	86	79	1.053	3.59	2.11	58.5	200.0		123	421		.1	2	4
RA	Totals	6	87	77	17.475	21.54	30.38	22.8	73.6		692	2,236		6	9 2	22
Totals		54	86	89	133.424	183.08	241.73	28.1	100.1		6,783	24,202		67	8 24	12

TI	1S R09W S07	7 ТуСС	****	10.00		Project: Acres		BE	10.0	CLAV 00	/						Page Date Time	9/	1 26/20 :01:4)19 4PM
		%				<u> </u>		Per	cent of	Net B	oard F	oot Volu	ıme				Avera	ige Lo	g	Logs
	S So Gr	Net	Bd. F	t. per Acre	е	Total	1	I	.og Sc	ale Dia			Log L	ength		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	DO2M	37	3.4	8,551	8,263		83			59	41	6	4		90	37	14	303	2.00	27
DF	DO3M	53	3.5	12,040	11,620	- 1	116		92	4	4			11	89	38	8	104	0.80	111
DF	DO4M	10	7.9	2,262	2,083		21	35	65			29	28	25	18	25	6	29	0.39	72
DF	Totals	91	3.9	22,853	21,966	2	220	3	55	24	18	5	4	8	83	33	8	104	0.86	211
RA	DOCR	100	3.2	2,309	2,236		22		68	32		9	31	13	47	27	8	74	0.84	3(
RA	Totals	9	3.2	2,309	2,236		22		68	32		9	31	13	47	27	8	74	0.84	30
Tota	ls		3.8	25,162	24,202	2	242	3	56	25	16	5	7	9	79	33	8	100	0.86	24

DE DO 2M 16		=			=													7 11110		U1.771	111
DE DO 2M 16]										
Do 2M 20	Spp 7	Γı	t de	Lei	n	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+
DE DO 2M 26	DF	I	OO 21	И 1	6	3	16.7	2	1.0	1							2				
DE DO 2M 36	DF	I	OO 21	Л 2	0.	3	5.6	3	1.2							3					
DO 2M 40 69 3.0 67 30.6	DF	I	OO 21	И 2	6	4		4	1.7									4			
DO 3M 32	DF	I	OO 21	A 3	6	7	2.9	7	3.2						7						
DE DO 3M 34 3 3 3 1.4 3 3 3 1.4 18 42 5 3 3 5 5 5 2.4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	DF	1	OO 21	Л 4	0	69	3.0	67	30.6				8		24	11	12	2	17		
DO 3M 36	DF	I	OO 31	A 3:	2	11	12.5	10	4.4			0	8	2							
DO 3M 40 83 2.1 81 36.9 14 18 42 5 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	DF	Ι	OO 3N	<i>A</i> 3	4	3		3	1.4				3								
DO 4M 14	DF	r	OO 3N	1 3	6	24	4.7	22	10.2			10	9	2	2						
DO 4M 16	DF	Ι	OO 3N	A 4	0	83	2.1	81	36.9			14	18	42			5	3			
DO 4M 19	DF	Ι	OO 4N	1 1	4	0		0	.1			0									
DO 4M 20	DF	Ι	O 4N	1 1	6	1		1	.4		1	0									
DO 4M 24 3 23.6 2 1.1 2 1	DF	Γ	O 4N	1 1	9	1		1	.3			1									
DO 4M 26	DF	Γ	O 4N	1 2	0	4		4	1.9		3	1									
DO 4M 28	DF	Г	O 4N	1 2	4	3	23.6	2	1.1		2	1									
DO 4M 30	DF	E	O 4N	1 2	6	2		2	.8			2									
DO 4M 32 6 16.6 5 2.4 5 DO 4M 36 3 3 1.5 2 1 DO 4M 40 0 0 0 1.1 0 DO 4M 40 0 0 0 1.1 0 DO 4M 40 0 0 0 1.1 0 DO 4M 40 0 0 0 0 1.1 0 DO 4M 40 0 0 0 0 1.1 0 DO 4M 40 0 0 0 0 1.1 0 DO 4M 40 0 0 0 0 1.1 0 DO 4M 40 0 0 0 0 1.1 0 DO 4M 40 0 0 0 0 1.1 0 DO 4M 40 0 0 0 1.2 0 DO 4M 40 0 0 1.5 0 DO 4M 40 0 0 1.5 0 DO 4M 40 DO 4M 40 0 0 1.9 0 DO 4M 40 DO 4M 40 0 0 1.9 0 DO 4M 40 DO 4M 40 0 0 1.9 0 DO 4M 40 DO 4M 40 DO 4M 40 0 0 1.9 DO 4M 40 DO	OF	Γ	O 4N	1 2	8	1		1	.4			1									
DO 4M 36	OF	D	O 4N	1 3	0	1		1	.4			1									
F DO 4M 40 0 0 1.1 0 1.1 0 1.1 1.2 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	OF	Г	O 4N	1 3	2	6	16.6	5	2.4			5									
Totals 229 3.9 220 90.8 7 37 37 46 33 14 19 9 17 A DO CR 16 1 33.3 1 3.0 1 A DO CR 18 1 1 1 6.1 A DO CR 21 1 1 1 3.1 A DO CR 22 0 33.3 0 1.5 A DO CR 24 0 0 1.9 A DO CR 30 5 5 24.5 A DO CR 32 3 7.1 3 13.2 A DO CR 36 3 3 15.0 A DO CR 40 7 7 31.7 A Totals 23 3.2 22 9.2 6 7 3 3 3 4	OF	Б	O 4N	1 3	6	3		3	1.5		2	1									
A DO CR 16	OF	D	O 4N	1 40	0	0		0	.1		0										
A DO CR 18 1 1 6.1 1 A DO CR 21 1 1 3.1 1 A DO CR 22 0 33.3 0 1.5 0 A DO CR 32 3 7.1 3 13.2 3 A DO CR 32 3 7.1 3 13.2 3 A DO CR 36 3 3 15.0 A DO CR 40 7 7 31.7 3 1.7 3 4 A Totals 23 3.2 22 9.2 6 7 3 3 4	OF		Total	S		229	3.9	220	90.8		7	37	37	46	33	14	19	9	17		
A DO CR 21 1 1 3.1 0 0 DO CR 22 0 33.3 0 1.5 0 0 DO CR 24 0 0 1.9 0 DO CR 30 5 5 24.5 2 3 A DO CR 32 3 7.1 3 13.2 3 A DO CR 36 3 3 15.0 3 A DO CR 40 7 7 31.7 31.7 3 4 Totals 23 3.2 22 9.2 6 7 3 3 4	RA	D	O CF	10	6	1	33.3	1	3.0			1									
A DO CR 22 0 33.3 0 1.5 0 0 A DO CR 24 0 0 1.9 0 A DO CR 30 5 5 24.5 2 3 A DO CR 32 3 7.1 3 13.2 3 A DO CR 36 3 3 15.0 3 A DO CR 40 7 7 31.7 3 3 4 A Totals 23 3.2 22 9.2 6 7 3 3 4	RA	D	O CF	18	8	1		1	6.1			1									
A DO CR 24 0 0 1.9 0 2 3 A DO CR 30 5 5 24.5 2 3 A DO CR 32 3 7.1 3 13.2 3 A DO CR 36 3 3 15.0 3 A DO CR 40 7 7 31.7 31.7 3 4 A Totals 23 3.2 22 9.2 6 7 3 3 4	R.S	1				1		1	3.1			1									
A DO CR 30 5 5 24.5 2 3 A DO CR 32 3 7.1 3 13.2 3 A DO CR 36 3 3 15.0 3 A DO CR 40 7 7 31.7 3 1.7 3 4 A Totals 23 3.2 22 9.2 6 7 3 3 4	RA.					0	33.3	220				0									
A DO CR 32 3 7.1 3 13.2 3 3 A DO CR 36 3 3 15.0 3 A DO CR 40 7 7 31.7 3 4 A Totals 23 3.2 22 9.2 6 7 3 3 4	RA	1			1	0		0	- 1												
A DO CR 36 3 3 15.0 3 4 DO CR 40 7 7 31.7 31.7 3 4 A Totals 23 3.2 22 9.2 6 7 3 3 4	RA	1				5		5				2	3								
A DO CR 40 7 7 31.7 3 4 A Totals 23 3.2 22 9.2 6 7 3 3 4	RA	1					7.1		1					3							
A Totals 23 3.2 22 9.2 6 7 3 3 4	RA	1							- 1				3								
	RA	D	O CR	4(0	7		7	31.7						3	4					
otal All Species 252 3.8 242 100.0 7 43 44 49 36 18 19 9 17	RA		Total	s		23	3.2	22	9.2			6	7	3	3	4					
	otal	A	II Speci	es		252	3.8	242	100.0		7	43	44	49	36	18	19	9	17		



Boundaries

Ownership

Green Tree Retention Area

///// Reforested Area

Stream Buffer

Murrelet Management Area

/// Occupied Habitat

Non-Habitat Buffer

Roads

Surfaced Road

== = Unsurfaced Road

Motorized Trail

Streams

— Type F Stream

··· — Type N Stream

— Cable Corridor

O Landing

Land Survey Monument

LOGGING PLAN

OF TIMBER SALE CONTRACT NO.
WO-341-2020-W00376-01
BEAR CLAW
PORTIONS OF SECTION 7
OF T11S, R9W, W.M.
LINCOLN COUNTY, OREGON.

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1 inch = 1,000 feet

			Feet
0	500	1,000	2,000

AREA	NET ACRES TRACTOR	NET ACRES CABLE
1 (MC) 2 (MC)	6 10	29 0
TOTAL	16	29

