

District: West Oregon Date: October 09, 2017

# **Cost Summary**

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$1,078,416.17	\$5,730.66	\$1,084,146.83
		Project Work:	(\$81,297.00)
		Advertised Value:	\$1,002,849.83



District: West Oregon Date: October 09, 2017

# **Timber Description**

Location: Portions of Sections 5 and 8, T10S, R8W, W.M., Polk County, Oregon.

Stand Stocking: 60%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	31	0	95
Alder (Red)	15	0	95
Maple	14	0	95

Volume by Grade	28	3S	3S 12"+	<b>4</b> S	CR 8" - 14"	Total
Douglas - Fir	1,970	86	89	8	0	2,153
Alder (Red)	0	0	0	0	15	15
Maple	0	0	0	0	3	3
Total	1,970	86	89	8	18	2,171

Comments: Pond Values Used: Local Pond Values, August 2017.

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

\$343.37/MBF = \$579.29/MBF - \$235.92/MBF

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

\$1,087.52/MBF = \$1,520.78/MBF - \$433.26/MBF

Pulp Logs (Conifer & Hardwood) = \$35/MBF

SCALING COST ALLOWANCE = \$5.00/MBF

BRANDING AND PAINTING COST ALLOWANCE =\$2.00/MBF

FUEL COST ALLOWANCE = \$3.00/Gallon

LOG HAUL:

Conifer costed to Springfield. Hardwood costed to Eugene. Western redcedar costed to Washington.

HAULING COST ALLOWANCE:

Hauling costs equivalent to \$780 daily truck cost.

Other Costs (with Profit & Risk to be added): Felling of Sub-Merchantable Trees: \$1,840

TOTAL Other Costs (with Profit & Risk to be added) = \$1,840

Other Costs (No Profit & Risk added):
Non-Project Roads and Landings: \$750
Invasive Species Equipment Cleaning: \$2,000
Firewood Sorting & Landing Piling: 9 landings @ \$180/landing: \$1,620
TOTAL Other Costs (No Profit & Risk added) = \$4,370

SLASH DISPOSAL COSTS:

Move-in: \$1,290 Sale Area Moves: \$300 Piling Work: \$5,100

TOTAL Slash Disposal = \$6,690



# Timber Sale Appraisal Rudder Road

Sale WO-341-2018-55-

District: West Oregon Date: October 09, 2017

# **Logging Conditions**

Combination#: 1 Douglas - Fir 58.00%

Alder (Red) 58.00% Maple 58.00%

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

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

loads / day: 7 bd. ft / load: 5000

cost / mbf: \$171.43

machines: Log Loader (A)

Stroke Delimber (A)
Tower Yarder (Medium)

 Combination#: 2
 Douglas - Fir
 42.00%

 Alder (Red)
 42.00%

Maple 42.00%

Logging System: Track Skidder Process: Stroke Delimber

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

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

loads / day: 7 bd. ft / load: 5000

cost / mbf: \$90.63

machines: Stroke Delimber (B)



District: West Oregon Date: October 09, 2017

# **Logging Costs**

**Operating Seasons: 2.00** 

Profit Risk: 10%

**Project Costs:** \$81,297.00

Other Costs (P/R): \$1,840.00

Slash Disposal: \$6,690.00

Other Costs: \$4,370.00

#### Miles of Road

Road Maintenance:

\$6.19

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	5.0
Alder (Red)	\$0.00	1.0	3.5
Maple	\$0.00	1.0	3.5



District: West Oregon Date: October 09, 2017

# **Logging Costs Breakdown**

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling / Brand & Paint	Other	Total
Douglas -	Fir								
\$137.49	\$6.50	\$4.04	\$54.60	\$0.85	\$20.35	\$3.08	\$7.00	\$2.01	\$235.92
Alder (Red	l)								
\$137.49	\$6.50	\$4.04	\$234.00	\$0.85	\$38.29	\$3.08	\$7.00	\$2.01	\$433.26
Maple	-			-	_				
\$137.49	\$6.50	\$4.04	\$234.00	\$0.85	\$38.29	\$3.08	\$7.00	\$2.01	\$433.26

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$736.81	\$500.89	\$0.00
Alder (Red)	\$0.00	\$805.37	\$372.11	\$0.00
Maple	\$0.00	\$482.93	\$49.67	\$0.00



District: West Oregon Date: October 09, 2017

# **Summary**

#### Amortized

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

## Unamortized

Specie	MBF	Value	Total
Douglas - Fir	2,153	\$500.89	\$1,078,416.17
Alder (Red)	15	\$372.11	\$5,581.65
Maple	3	\$49.67	\$149.01

## **Gross Timber Sale Value**

**Recovery:** \$1,084,146.83

Prepared By: Evelyn Hukari Phone: 541-929-3266

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

Sale Name: Rudder Road Date: September 2017

## Project #1 - Road Improvements

Road Segment	Length (sta)	Cost	
1 to 2	123.5	\$ 16,730	
2 to 3	21.6	\$ 12,193	
2 to 7	24.3	\$ 9,940	
7 to 4	65.7	\$ 9,931	
5 to 6	19.9	\$ 10,269	
7 to 8	10.6	\$ 7,119	
	265.6	SUBTOTAL	\$ 66 182

# Project #2 - Mechanical Brushing

Road Segment	Length (miles)	Cost		
1 to 31 (all)	11.69	\$ 10,469	•	40.400
		SUBTOTAL	\$	10,469
24-25				

Equipment Move-in	Cost
Dozer, D7 or equiv.	\$ 805
Grader, G14 or equiv.	\$ 778
Vibratory Roller	\$ 778
Backhoe, C580 or equiv.	\$ 321
Excavator, C325 or equiv.	\$ 1,290
Highway Dump, 10 -12 CY	\$ 163
Brush Cutter	\$ 321
Water Truck, 2,500 gallon	\$ 190
	SUBTOTAL \$ 4,646

GRAND TOTAL \$ 81,297

Compiled by: C. Morgan Date: 09/22/2017

SALE ROAD	Rudder Ro			Project # tch, outslop		LENGTH	improve			123.5	sta
IMPROVE Pull ditch a waste mat	and scatter		92	sta	@	\$44.00	/sta	=	\$	4,048.00	
							TOTAL IMP	PROVEN	ΛEΝ	IT COST =	\$ 4,048
SURFACION Turnout Respot Rock Curve Wick Grade/con (with vibra	ock lening npact rock	9	@ 123.5	10 230 60 sta	cy cy cy @	Size 1½ - 0" 1½ - 0" 1½ - 0" \$36.00	Cost/yd \$20.62 \$20.62 \$20.62 /sta	= = = =	\$ \$ \$	1,855.80 4,742.60 1,237.20 4,446.00	
							TOTAL	SURFA	CIN	G COST =	\$ 12,282
SPECIAL 24-25 (inlet and	PROJECTS outlet)	S	16	culverts	@	\$25.00	/culvert	=	\$	400.00	

TOTAL SPECIAL PROJECTS COST = \$ 400

Compiled by: C. Morgan Date: Sep 22, 2017

**GRAND TOTAL =====> \$ 16,730** 

SALE Rudder ROAD 2 to 3	Road (surfaced		roject # 1 outslope)		LENGTH	improve			21.6	sta	
IMPROVEMENT Re-open road (with D7 dozer or g	rader)	21.6	sta	@	\$24.83	/sta	=	\$	536.33		
Re-open landing (with D7 dozer or e	·	0.5	hours	@	\$144.00	/hour	=	\$	72.00		
Pull ditch and scatt waste material		21.6	sta	@	\$44.00	/sta	=	\$	950.40		
					TO	OTAL IMPI	ROVEN	IENT	COST =	\$ 1,5	59
SURFACING Surface Rock (4" lif Turnout Rock Landing Rock Grade/compact roc (with vibratory rolle 24-25	:k	1 1 21.6	484 10 40 sta	cy cy cy @	Size 3-0" 3-0" jaw run \$24.28		= = = =	\$ \$ \$	9,176.64 189.60 718.40 524.45	\$10,	609
SPECIAL PROJECT Culvert cleaning (inlet and outlet)	CTS	1	culvert	@	\$25.00		=	\$	25.00	Ψ10,	500
					TOTAL	SPECIAL	PROJE	CTS	COST =	\$	25
Compiled by: Date:	C. Morgai Sep 22, 2					GR.	AND TO	IATC	L ====>	\$12,1	93

SALE Rudder Road Project # 1 LENGTH improve 24.3 sta

ROAD 2 to 7 (surfaced, outslope)

**IMPROVEMENT** 

Grade/shape/compact 24.3 sta @ \$18.35 /sta = \$ 445.91

(with grader and vibratory roller)

TOTAL IMPROVEMENT COST = \$ 446

SURFACING Size Cost/yd

Surface Rock (3" lift) 408 1½ - 0" \$20.62 \$ 8,412.96 су = 1½ - 0" **Turnout Rock** 1 10 \$20.62 \$ 206.20 СУ = \$ Grade/compact surface rock 24.3 sta @ \$36.00 /sta 874.80 =

(with vibratory roller and water truck)

TOTAL SURFACING COST = \$ 9,494

Compiled by: C. Morgan

24-25 Sep 22, 2017 **GRAND TOTAL =====> \$ 9,940** 

SALE ROAD	Rudder Road 7 to 4 (su	l rfaced, outsl	Project # ope)	1	LENGTH	improve			65.7	sta	
IMPROV Pull ditch waste ma	and scatter	65.	7 sta	@	\$44.00	/sta	=	\$2	2,890.80		
					ТОТ	AL IMPRO	OVEMI	ENT	COST =	\$2,8	91
	ck Rock	14 2 10 50 65. d water truck	cy cy resta	@	Size 3/4 - 0" 3/4 - 0" 3/4 - 0" \$36.00	Cost/yd \$20.62 \$20.62 \$20.62 /sta	= = =	\$ \$ 1	2,886.80 412.40 1,031.00 2,365.20		
					Т	OTAL SU	RFAC	ING	COST =	\$6,	695
	ees in R/W ameter trees)	2	hours	@	\$40.00	/hour	=	\$	80.00		
Culvert of (inlet and		4	culverts	s @	\$25.00	/culvert	=	\$	100.00		
Construc	t rolling dip	1	dip	@	\$165.00	/dip	=	\$	165.00		
					TOTAL SI	PECIAL PI	ROJE	CTS	COST =	\$ 3	845
Compiled Date:	d by:	C. Morgan Sep 22, 20	17			GRAN	ID TO	TAL	.====>	\$9,	931

SALE ROAD	Rudder Road 5 to 6 (surfaced, o		oject# e)	1	LENGTH impro	ove		19.9 s	ta
Re-open (with D7	EMENT road dozer or equivalent) landing dozer or equivalent)	19.9 0.5	sta	@ @	\$18.35 /sta \$144.00 /hour		\$ \$	365.17 72.00	
Slough R (scatter v	emoval vith excavator)	2	hrs	@	\$144.00 /hour		\$	288.00	
					TOTAL IMI	PROVEM	EN	ΓCOST =	\$ 725
Landing I Grade/co	Rock (4" lift)	1 19.9	440 40 sta	cy cy @	Size Cost, 3-0" \$18. jaw run \$17.9 \$24.28 /sta	96 = 96 = =	\$	8,342.40 718.40 483.17	<b>.</b>
					TOTAL	SURFAC	SING	G COST =	\$9,544

Compiled by: C. Morgan Sep 22, 2017

Date: Sep 22, 2017 **GRAND TOTAL =====> \$10,269** 

SALE ROAD	Rudder Road 7 to 8 (surfa	ced, out		oject#	I	LENGTH	improve			10.6	sta	
Re-open (with D7 Slough R	road dozer or equivale landing dozer or equivale	ent)	10.6 0.5 1.5	sta hours hrs	@ @ @	\$18.35 \$144.00 \$144.00	/hour	= = =	\$ \$ \$	194.51 72.00 216.00		
						TOTAL	. IMPROVE	EME	NT	COST =	\$ 4	183
(Sta. 10+ Waste ar (with D7	excavation ·60) (with C325 e	xcavator ent)	150	D7 dozer cy ivalent) hours cy	or equ @ @ @	\$5.00 \$144.00 \$0.40	/hour	= = =	\$ \$ \$	750.00 72.00 60.00	¢ (	382
						1017	AL EXCAV	АΠ	ON	COS1 =	Ф	582
Turnout F Landing I Grade/co	Rock (4" lift) Rock		1 1 10.6	242 10 40 sta	cy cy cy @	Size 3-0" 3-0" jaw run \$24.28	Cost/yd \$18.96 \$18.96 \$17.96 /sta	= = =	\$	1,588.32 189.60 718.40 257.37		
						TO	TAL SURF	AC	NG	COST =	\$5,	754
Compiled Date:	l by:	C. Mor Sep 22	gan 2, 2017				GRAND	TO	TAL	. ====>	\$ 7, <sup>-</sup>	119

#### Rudder Road Timber Sale No. 341-18-55

**Project No. 2: Mechanical Brushing Costs** 

Poad Namo	Length	Length	Brush	Cost / Milo	S	Segment
Noau Name	(Feet)	(Miles)	Density	COSt / Wille		Cost
Beaver Creek Road	14,645	2.77	Medium	\$ 600.00	\$	1,662.00
	4,438	0.84	High	\$ 1,100.00	\$	924.00
	673	0.13	High	\$ 1,100.00	\$	143.00
	1,160	0.22	High	\$ 1,100.00	\$	242.00
	431	0.08	High	\$ 1,100.00	\$	88.00
Rudder Creek Road	9,000	1.70	High	\$ 1,100.00	\$	1,870.00
	2,156	0.41	High	\$1,100.00	\$	451.00
	2,004	0.38	High	\$1,100.00	\$	418.00
	1,059	0.20	High	\$ 1,100.00	\$	220.00
Hatchery Fall Creek Road	1,652	0.31	Medium	\$ 600.00	\$	186.00
	2,179	0.41	Medium	\$ 600.00	\$	246.00
Hatchery Fall Creek Road	1,516	0.29	Medium	\$ 600.00	\$	174.00
Hatchery Fall Creek Road	2,140	0.41	Medium	\$ 600.00	\$	246.00
Hatchery Fall Creek Road	2,288	0.43	High	\$1,100.00	\$	473.00
Fish Sticks Road	5,594	1.06	High	\$1,100.00	\$	1,166.00
	2,958	0.56	High	\$1,100.00	\$	616.00
	766	0.15	High	\$1,100.00	\$	165.00
Hatchery Extension Road	3,096	0.59	Medium	\$ 600.00	\$	354.00
	1,461	0.28	High	\$1,100.00	\$	308.00
	1,723	0.33	High	\$1,100.00	\$	363.00
	748	0.14	High	\$ 1,100.00	\$	154.00
	Rudder Creek Road  Hatchery Fall Creek Road  Fish Sticks Road	Beaver Creek Road 14,645	Road Name   (Feet) (Miles)	Road Name         (Feet)         (Miles)         Density           Beaver Creek Road         14,645         2.77         Medium           4,438         0.84         High           673         0.13         High           1,160         0.22         High           Rudder Creek Road         9,000         1.70         High           Rudder Creek Road         9,000         1.70         High           2,156         0.41         High           1,059         0.20         High           Hatchery Fall Creek Road         1,652         0.31         Medium           Hatchery Fall Creek Road         1,516         0.29         Medium           Hatchery Fall Creek Road         2,140         0.41         Medium           Hatchery Fall Creek Road         2,288         0.43         High           Fish Sticks Road         5,594         1.06         High           T66         0.15         High           Hatchery Extension Road         3,096         0.59         Medium           Hatchery Extension Road         3,096         0.59         Medium           Hatchery Extension Road         1,461         0.28         High           1,	Road Name         (Feet)         (Miles)         Density         Cost / Mile           Beaver Creek Road         14,645         2.77         Medium         \$ 600.00           4,438         0.84         High         \$ 1,100.00           673         0.13         High         \$ 1,100.00           1,160         0.22         High         \$ 1,100.00           Rudder Creek Road         9,000         1.70         High         \$ 1,100.00           Rudder Creek Road         9,000         1.70         High         \$ 1,100.00           2,156         0.41         High         \$ 1,100.00           2,004         0.38         High         \$ 1,100.00           Hatchery Fall Creek Road         1,652         0.31         Medium         \$ 600.00           Hatchery Fall Creek Road         1,516         0.29         Medium         \$ 600.00           Hatchery Fall Creek Road         2,140         0.41         Medium         \$ 600.00           Hatchery Fall Creek Road         2,288         0.43         High         \$ 1,100.00           Fish Sticks Road         5,594         1.06         High         \$ 1,100.00           766         0.15         High         \$ 1,100.00     <	Road Name   (Feet) (Miles)   Density   Cost 7 Mile

TOTALS 11.69 \$10,469.00

Compiled by: C. Morgan Date: Sep 22, 2017

## **SUMMARY OF MAINTENANCE COST**

SALE	Rudder Road		-	ance Cost Es isal, not in projed	
Grading	Move-in	Grader Vibratory Roller Water Truck	\$	778.00 778.00 190.00	
Road Segment	Length (sta)	Cost/sta		Cost	Mileage
Surfaced Roads	<u> </u>				
1 to 2	123.5	\$19.20	\$	2,371.20	2.34
2 to 3	21.6	\$19.20	\$	414.72	0.41
2 to 7	24.3	\$36.00	\$	874.80	0.46
7 to 4	65.7	\$36.00	\$	2,365.20	1.24
5 to 6	19.9	\$19.20	\$	382.08	0.38
7 to 8	10.6	\$19.20	\$	203.52	0.20
Subtotal	265.6		\$	6,611.52	5.03
1 to 44 (all)					
Maintenance Rock:	Volume (CY)	Cost/CY		Cost	
3/4-0"	50	\$20.62	\$	1,031.00	
1½-0"	150	\$20.62	\$	3,093.00	
3-0"	50	\$18.96	\$	948.00	
Subtotal		·	\$	5,072.00	
Grand Total			\$	13,429.52	
TS Volume	2,171	MBF			
Cost / MBF			\$	6.19	

<sup>\*\*</sup>Note: Process and compact road segments 2 to 7 and 7 to 4.\*\*

#### Rock Haul Cost Computation

SALE NAME:	Rudder Road	
		CLASS: Medium
ROCK SOURCE:	·	20 CY truck
	, Hwy 20, Summit Hwy, Logsde:	
	, 1 -, 1, -5	
TIME Computation:		
Road speed time facto	ors:	
1. 55 MPF	H MRT	0.0 minutes
2. 50 MPF	12.6 MRT	15.1 minutes
3. 45 MPF	H MRT	0.0 minutes
4. 40 MPF	H MRT	0.0 minutes
5. 35 MPF	H MRT	0.0 minutes
6. 30 MPF	H 33.6 MRT	67.2 minutes
7. 25 MPF	H MRT	0.0 minutes
8. 20 MPF		7.2 minutes
9. 15 MPF		0.0 minutes
10. 10 MPF		0.0 minutes
o 44 (all) 05 MPF	H MRT	0.0 minutes
Dump or spread time p	per RT	0.50 minutes
Total hauling cycl	le time for this setting	
(100% efficiency)		90.00 minutes
Operator efficiency of	correction 0.85	105.88 minutes
Job efficiency correc	otion 0.75	141.17 minutes
Truck capacity (CY)	20.00	7.06 min/CY
Loading time, delay t		0.25 min/CY
TIME (minutes) per cu		7.31 min/CY
COST per CY computati	lon.	
Cost of truck and		\$79.00 /hr.
	operator per minute	\$1.32 /min
cost of clack and	operator per minate	Y1.32 / IIIII
Cost per CY		\$9.65 /CY
Spread and Compact		/CY
		Cost Delivered
Size Cost/Yd (Pa	it)	w/o processing
3/4 - 0" \$ 10.97		\$20.62
1½ - 0" \$ 10.97		\$20.62
3 - 0" \$ 9.31		\$18.96
Jaw Run \$ 8.31		\$17.96

#### Rudder Road (341-18-55) FY 2018

#### TIMBER CRUISE REPORT

- 1. Sale Area Location: Portions of Section 5 & 8, T10S, R08W, W.M., Polk 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 Areas	Net Sale Acres	Acreage Comp. Method
1	Modified Clearcut	56	5	3	2	46	Ortho photo, GIS, GPS
Total		56	5	3	2	46	

- 4. Cruisers and Cruise Dates: This sale was cruised by Carli Morgan and Eric Brekstad in May of 2017.
- 5. Cruise Method and Computation: The Rudder Road timber sale was cruised using variable—radius plot sampling with a 40 BAF. Plots were located 185 feet apart, and cruise lines were located 390 feet apart. A total of 28 plots were cruised: 11 count and 17 full—grade. On count plots, only tree count and species were recorded. On full—grade plots, species, DBH, height, form factor, grade, and defect were measured and recorded. Designated wildlife trees and standing dead trees were not cruised if encountered on a plot. Data was entered into the Atterbury SuperACE cruise program to determine stand statistics and net board foot volume.

Digital ortho photos, Lidar data, and GPS data were used to map the boundaries for the sale, and ArcMap 10.3 was used to determine gross and net acreage.

- 6. Measurement Standards: Heights were measured to the nearest foot, to a top diameter of 7 inches outside 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. Most trees were graded in 40-foot log segments unless breakage, defect, or length to top of grade diameter warranted otherwise.
- 7. **Timber Description:** Timber primarily consists of 50 to 80-year-old Douglas-fir with minor components of red alder and bigleaf maple. The timber sale was stratified into two cruise types (see attached cruise maps).
  - Cruise Type A includes 9 net acres of modified clearcut. The average DBH for Douglas-fir trees is 30 inches, and the average bole height is 98 feet to a merchantable top. The average DBH for red alder is 15 inches with an average bole height of 37 feet. The average net volume per acre is 33 MBF.
  - Cruise Type B includes 37 net acres of modified clearcut. The average DBH for Douglas-fir trees is 31 inches, and the average bole height is 121 feet to a merchantable top. The average DBH for bigleaf maple is 14 inches with an average bole height of 25 feet. The average net volume per acre is 54 MBF.

#### 8. Statistical Analysis and Stand Summary:

Cruise Type	Target CV	Target SE	Actual CV	Actual SE
A	40	9%	48%	21%
В	40	9%	30%	7%
Combined	40	9%	38%	7%

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

## 9. Total Volume (MBF) by Species and Grade:

Species	Gross Cruise Volume	Cruised D & B	Cruised D & B (MBF)	Hidden D & B	Hidden D & B (MBF)	Net Sale Volume
Cruise Types A	and B Com	bined				
Douglas-fir	2,368	4.1%	97	5%	118	2,153
Red alder	16	0%	0	5%	1	15
Bigleaf maple	3	0%	0	5%	<1	3
Total	2,387		97		119	2,171

Species	Avg. DBH	Net Vol.	2-Saw	3-Saw	3-Saw 12"+	4-Saw	Camp Run	% by Species
Cruise Types	A and B (	Combined						
D 1 C	Grade Pe	ercentages	92%	4%	4%	<1%		
Douglas-fir	31	2,153	1,970	86	89	8	85.0	99%
D 1 11	Grade Pe	ercentages	:=:=				100%	
Red alder	15	15	:==	==			15	1%
Bigleaf	Grade Pe	ercentages	:==	H-5			100%	
maple	14	3					3	<1%
Total		2,171	1,970	86	89	8	18	100%

Attachments:	04-4:-4:
Affachmente.	STaffeffice

Stand Table Summary

Species, Sort Grade - Board Foot Volumes

Log Stock Table - MBF

Cruise Maps

Prepared by:	Carli Morgan	Date:	
Unit Forester:	Grelyn Hul Evelyn Hukari	Date: 9/7/17	

TC PS	TATS					JECT oject		STICS DROAD			PAGE DATE	1 7/5/2017
TWP	RGE	SC	TRACT	,	ГҮРЕ		AC	CRES	PLOTS	TREES	CuFt	BdFt
10S 10S	08 08W	05 05	1 1		A B			46.00	28	121	1	W
105	00 77	03	1					ESTIMATED	P	ERCENT		
						TREES		TOTAL	S	AMPLE		
		F	PLOTS	TREES		PER PLOT	`	TREES		TREES		
TOT	AL		28	121		4.3						4
CRU	ISE		17	79		4.6		1,729		4.6		
DBH	COUNT											
REFO	OREST											
COU			11	42		3.8						
BLA												
100 %	<b>6</b>											
		0000	A IDI E	TDEEC		ND SUM		DACAT	on one	ATTOM	OPOGG	N. HEIM
			MPLE REES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
DF			74	31.8	30.9	117	29.8	165.3	51,469	49,371	9,689	9,530
	DER		4	4.4	14.8	37	1.4	5.2	31,469	49,371 351	126	9,330
			1	1.4	14.0	25	0.4	1.5	55	55	25	25
R ALDER BL MAPI			79	37.6	29.0	105	32.0	172.0	51,875	49,776	9,840	9.680
CON			MITS OF T	HE SAMPL	E			HIN THE SAN	IPLE ERRO	R		
200.000.000	FIDENC 68 68.1		MITS OF T	HE SAMPL	E	ME WILL		HIN THE SAN		R OF TREES	REQ.	
CON	IFIDENC 68		MITS OF T TIMES OU COEFF VAR.%	THE SAMPL T OF 100 TI S.E.%	E HE VOLUM	ME WILL SAMPL	BE WITE E TREES AVG	HIN THE SAN S - BF HIGH			REQ. 10	
CON CL SD: DF	68.1 1.0		MITS OF TOTAL COEFF VAR.% 50.2	THE SAMPL T OF 100 TH S.E.% 5.8	E HE VOLUM	SAMPL	BE WITH E TREES AVG 1,916	HIN THE SAN S - BF HIGH 2,027		OF TREES	44.786	
CON CL SD: DF R AL	68.1 1.0 DER		MITS OF T TIMES OU COEFF VAR.%	THE SAMPL T OF 100 TI S.E.%	E HE VOLUM	ME WILL SAMPL	BE WITE E TREES AVG	HIN THE SAN S - BF HIGH		OF TREES	44.786	
CON CL SD: DF R AL	68.1 1.0 DER		MITS OF TOTAL COEFF VAR.% 50.2	THE SAMPL T OF 100 TH S.E.% 5.8	E HE VOLUM	SAMPL	BE WITH E TREES AVG 1,916	HIN THE SAN S - BF HIGH 2,027		OF TREES	44.786	1
CL SD: DF R AL BL M	68.1 1.0 DER		MITS OF TOTMES OUT  COEFF VAR.%  50.2  131.3	S.E.% 5.8 75.0	E HE VOLUM	SAMPL DW 1,804 39	BE WITH E TREES AVG 1,916 155 1,803	HIN THE SAN S - BF HIGH 2,027 271	#	OF TREES	32	1
CCL SD: DF R AL BL M	68.1 1.0 DER		COEFF VAR.% 50.2 131.3	S.E.% 5.8 75.0	E HE VOLUM LC	ME WILL  SAMPL  DW  1,804  39  ,687	BE WITH E TREES AVG 1,916 155 1,803	HIN THE SAN S - BF HIGH 2,027 271	#	OF TREES 5	32	<i>I</i> INF. POP
CL SD: DF R ALL BL M TOTA CL SD: DF	68.1 1.0 DER (APLE AL 68.1 1.0		COEFF VAR.% 50.2 131.3 57.0 COEFF VAR.% 43.1	S.E.%  5.8  75.0  6.4  S.E.%  8.3	E HE VOLUM LC	SAMPL OW 1,804 39 ,687 TREES/OW 29	BE WITH E TREES AVG 1,916 155  1,803  ACRE AVG 32	HIN THE SAN S - BF HIGH 2,027 271 1,919 HIGH 34	#	OF TREES 1 5 130 OF PLOTS 1	32 REQ.	<i>I</i> INF. POP
CL SD: DF R AL SD: DF R AL	68.1 1.0 DER IAPLE AL 68.1 1.0		COEFF VAR.% 50.2 131.3 57.0 COEFF VAR.% 43.1 409.3	S.E.%  5.8  75.0  6.4  S.E.%  8.3  78.7	E HE VOLUM LC	SAMPL DW 1,804 39 ,687 TREES	BE WITH E TREES AVG 1,916 155 1,803 ACRE AVG 32 4	HIN THE SAM S - BF HIGH 2,027 271 1,919 HIGH 34 8	#	OF TREES 1 5 130 OF PLOTS 1	32 REQ.	INF. POP
CCL SD: DF R ALL SD: DF R ALL BL M	68.1 1.0 DER IAPLE AL 68.1 1.0		COEFF VAR.% 50.2 131.3 57.0 COEFF VAR.% 43.1 409.3 529.2	S.E.%  S.E.%  5.8  75.0  6.4  S.E.%  8.3  78.7  101.8	E HE VOLUM LC	ME WILL  SAMPL  OW  1,804 39 ,687  TREES/OW 29 1	BE WITH E TREES AVG 1,916 155 1,803 ACRE AVG 32 4 1	HIN THE SAM S - BF HIGH 2,027 271 1,919 HIGH 34 8 3	#	OF TREES 1 5  130  OF PLOTS 1 5	32 REQ. 10	INF. POP
CCL SD: DF R ALL SD: DF R ALL SD: DF R ALL BL M TOTA	68.1 1.0 DER IAPLE AL 1.0 DER IAPLE AL AL AL AL		COEFF VAR.% 50.2 131.3 57.0 COEFF VAR.% 43.1 409.3 529.2 48.7	S.E.%  5.8  75.0  6.4  S.E.%  8.3  78.7	E HE VOLUM LC	ME WILL  SAMPL  DW  1,804  39  ,687  TREES/ DW  29  1  34	BE WITH E TREES AVG 1,916 155 1,803 ACRE AVG 32 4 1 38	HIN THE SAM S - BF HIGH 2,027 271 1,919 HIGH 34 8 3 41	#	OF TREES 1 5 130 OF PLOTS 1 5 98	32 REQ. 10	INF. POP
CL SD: DF R ALL SD: DF R ALL SD: DF R ALL SD: CL SL M TOTA	68.1 1.0 DER [APLE AL 68.1 1.0 DER [APLE AL		COEFF VAR.% 50.2 131.3 57.0 COEFF VAR.% 43.1 409.3 529.2 48.7 COEFF	S.E.%  5.8  75.0  6.4  S.E.%  8.3  78.7  101.8  9.4	E HE VOLUM	ME WILL  SAMPL  OW  1,804 39 ,687  TREES/ OW 29 1 34  BASAL	BE WITH E TREES  AVG 1,916 155  1,803  ACRE AVG 32 4 1 38  AREA/A	HIN THE SAM S - BF HIGH 2,027 271 1,919 HIGH 34 8 3 41 CRE	#	OF TREES 1 5  130  OF PLOTS 1 5  98  OF PLOTS 1	32 REO. 10 25 REQ.	INF. POP
CL SD:	68.1 1.0 DER IAPLE AL 1.0 DER IAPLE AL AL AL AL		COEFF VAR.% 50.2 131.3 57.0 COEFF VAR.% 43.1 409.3 529.2 48.7 COEFF VAR.%	S.E.%  S.E.%  S.E.%  S.E.%  8.3  78.7  101.8  9.4  S.E.%	E HE VOLUM	SAMPL OW 1,804 39 ,687 TREES/OW 29 1 34 BASAL	BE WITH E TREES AVG 1,916 155  1,803  ACRE AVG 32 4 1 38  AREA/A	HIN THE SAM S - BF HIGH 2,027 271 1,919  HIGH 34 8 3 41  CRE HIGH	#	OF TREES 1 5 130 OF PLOTS 1 5 98	32 REQ. 10	INF. POP
CL SD: DF R ALL BL M TOTA CL SD: DF CL SD: DF	68.1 1.0 DER IAPLE AL 68.1 1.0 DER IAPLE AL 68.1 1.0		COEFF VAR.% 50.2 131.3 57.0 COEFF VAR.% 43.1 409.3 529.2 48.7 COEFF VAR.% 35.4	S.E.%  S.E.%  S.E.%  8.3  78.7  101.8  9.4  S.E.%  6.8	E HE VOLUM	ME WILL  SAMPL  DW  1,804 39 ,687  TREES/ DW  29 1 34  BASAL  DW  154	BE WITH E TREES AVG 1,916 155  1,803  ACRE AVG 32 4 1 38  AREA/A AVG 165	HIN THE SAN S - BF HIGH 2,027 271 1,919  HIGH 34 8 3 41  CRE HIGH 177	#	OF TREES 1 5  130  OF PLOTS 1 5  98  OF PLOTS 1	32 REO. 10 25 REQ.	INF. POP
CL SD: DF R ALL BL M TOTA CL SD: DF R ALL SD	68.1 1.0 DER IAPLE AL 68.1 1.0 DER IAPLE AL 68.1 1.0		COEFF VAR.% 50.2 131.3 57.0 COEFF VAR.% 43.1 409.3 529.2 48.7 COEFF VAR.% 35.4 313.9	S.E.%  S.E.%  S.E.%  8.3  78.7  101.8  9.4  S.E.%  6.8  60.4	E HE VOLUM	SAMPL OW 1,804 39 ,687 TREES/OW 29 1 34 BASAL	BE WITH E TREES AVG 1,916 155  1,803  ACRE AVG 32 4 1 38  AREA/A AVG 165 5	HIN THE SAM S - BF HIGH 2,027 271 1,919  HIGH 34 8 3 41  CRE HIGH 177 8	#	OF TREES 1 5  130  OF PLOTS 1 5  98  OF PLOTS 1	32 REO. 10 25 REQ.	INF. POP
CL SD: DF R ALL SD:	68.1 1.0 DER IAPLE AL 68.1 1.0 DER IAPLE AL 68.1 1.0		COEFF VAR.% 50.2 131.3 57.0 COEFF VAR.% 43.1 409.3 529.2 48.7 COEFF VAR.% 35.4 313.9 529.2	S.E.%  S.E.%  5.8  75.0  6.4  S.E.%  8.3  78.7  101.8  9.4  S.E.%  6.8  60.4  101.8	E HE VOLUM	ME WILL  SAMPL  DW  1,804 39 ,687  TREES/ DW 29 1 34  BASAL  DW 154 2	BE WITH E TREES AVG 1,916 155  1,803  ACRE AVG 32 4 1 38  AREA/A AVG 165 5 1	HIN THE SAM S - BF HIGH 2,027 271  1,919  HIGH 34 8 3 41  CRE HIGH 177 8 3	#	OF TREES 1 5  130  OF PLOTS 1 5  98  OF PLOTS 1 5	32 REQ. 10  25 REQ. 10	INF. POP
CL SD: DF R ALL BL M TOTA CL SD: DF R ALL BL M TOTA CL SD: DF R ALL BL M TOTA	68.1 1.0 DER (APLE AL 68.1 1.0 DER (APLE AL 68.1 1.0 DER (APLE AL		COEFF VAR.% 50.2 131.3 57.0 COEFF VAR.% 43.1 409.3 529.2 48.7 COEFF VAR.% 35.4 313.9 529.2 31.0	S.E.%  S.E.%  S.E.%  8.3  78.7  101.8  9.4  S.E.%  6.8  60.4	E HE VOLUM	ME WILL  SAMPL  OW  1,804 39 ,687  TREES/ OW 29 1 34 BASAL  OW 154 2	BE WITH E TREES AVG 1,916 155  1,803  ACRE AVG 32 4 1 38  AREA/A 1 1 172	HIN THE SAM S - BF HIGH 2,027 271 1,919  HIGH 34 8 3 41  CRE HIGH 177 8	#	OF TREES 1 5  130  OF PLOTS 1 5  98  OF PLOTS 1 5	32 REQ. 10  25 REQ. 10	INF. POP
CL SD: DF R ALL SD: CL SD: CL SC	68.1 1.0 DER IAPLE AL 68.1 1.0 DER IAPLE AL 68.1 1.0 DER APLE AL		COEFF VAR.%  50.2  131.3  57.0  COEFF VAR.%  43.1  409.3  529.2  48.7  COEFF VAR.%  35.4  313.9  529.2  31.0  COEFF	S.E.%  S.E.%  5.8  75.0  6.4  S.E.%  8.3  78.7  101.8  9.4  S.E.%  6.8  60.4  101.8  6.0	E HE VOLUM	ME WILL  SAMPL  OW  1,804 39 ,687  TREES/ OW 29 1 34  BASAL OW 154 2 162 NET BF	BE WITH E TREES AVG 1,916 155  1,803  ACRE AVG 32 4 1 38  AREA/A AVG 165 5 1 172  /ACRE	HIN THE SAM S - BF HIGH 2,027 271 1,919  HIGH 34 8 3 41  CRE HIGH 177 8 3 182	#	OF TREES 1 5  130  OF PLOTS 1 5  98  OF PLOTS 1 5	32 REQ. 10  25 REQ. 10  10	INF. POP
CCL SD: DF R ALL BL M TOTA CL SD: DF R ALL BL M TOTA CL SD: DF R ALL BL M TOTA	68.1 1.0 DER (APLE AL 68.1 1.0 DER (APLE AL 68.1 1.0 DER (APLE AL		COEFF VAR.% 50.2 131.3 57.0 COEFF VAR.% 43.1 409.3 529.2 48.7 COEFF VAR.% 35.4 313.9 529.2 31.0	S.E.%  S.E.%  5.8  75.0  6.4  S.E.%  8.3  78.7  101.8  9.4  S.E.%  6.8  60.4  101.8	LC	ME WILL  SAMPL  DW  1,804 39 ,687  TREES/ DW  29 1  34  BASAL  DW  154 2  162  NET BF	BE WITH E TREES AVG 1,916 155  1,803  ACRE AVG 32 4 1 38  AREA/A AVG 165 5 1 172  /ACRE AVG	HIN THE SAM S - BF HIGH 2,027 271  1,919  HIGH 34 8 3 41  CRE HIGH 177 8 3	#	OF TREES 1 5  130  OF PLOTS 1 5  98  OF PLOTS 1 5	32 REQ. 10  25 REQ. 10	INF. POP.  INF. POP.
CL SD: DF R ALL SD: DF R ALL SD: DF R ALL SD: CL SD: CL SD: CL SD: CL SD: CL SD:	68.1 1.0 DER IAPLE AL 68.1 1.0 DER IAPLE AL 68.1 1.0 DER APLE AL 68.1 1.0		COEFF VAR.% 50.2 131.3 57.0 COEFF VAR.% 43.1 409.3 529.2 48.7 COEFF VAR.% 35.4 313.9 529.2 31.0 COEFF VAR.%	S.E.%  S.E.%  S.E.%  8.3  78.7  101.8  9.4  S.E.%  6.8  60.4  101.8  6.0  S.E.%	LC	ME WILL  SAMPL  DW  1,804 39 ,687  TREES/ DW  29 1  34  BASAL  DW  154 2  162  NET BF	BE WITH E TREES AVG 1,916 155  1,803  ACRE AVG 32 4 1 38  AREA/A AVG 165 5 1 172  /ACRE	HIN THE SAM S - BF HIGH 2,027 271 1,919  HIGH 34 8 3 41  CRE HIGH 177 8 3 182  HIGH	#	OF TREES 1 5  130  OF PLOTS 1 5  98  OF PLOTS 1 5	32 REQ. 10  25 REQ. 10  10	INF. POP
CL SD: DF R ALL SD	68.1 1.0 DER IAPLE AL 68.1 1.0 DER IAPLE AL 68.1 1.0 DER APLE AL 68.1 1.0		COEFF VAR.% 50.2 131.3 57.0 COEFF VAR.% 43.1 409.3 529.2 48.7 COEFF VAR.% 35.4 313.9 529.2 31.0 COEFF VAR.%	S.E.%  S.E.%  S.E.%  S.E.%  8.3  78.7  101.8  9.4  S.E.%  6.8  60.4  101.8  6.0  S.E.%  7.6	LC	ME WILL  SAMPL  DW  1,804 39 ,687  TREES/ DW 29 1 34  BASAL DW 154 2  162  NET BF DW 1,627	BE WITH E TREES AVG 1,916 155  1,803  ACRE AVG 32 4 1 38  AREA/A AVG 165 5 1 172  /ACRE AVG 49,371	HIN THE SAM S - BF HIGH 2,027 271  1,919  HIGH 34 8 3 41  CRE HIGH 177 8 3 182  HIGH 53,115	#	OF TREES 1 5  130  OF PLOTS 1 5  98  OF PLOTS 1 5	32 REQ. 10  25 REQ. 10  10	INF. POP.  INF. POP.  INF. POP.  1

TC TST	ΓATS	Vi	8	DD	STATIS'	TICS RUDROAD			PAGE DATE 7	1 7/5/2017
TWP	RGE	SECT T	RACT		::::::::::::::::::::::::::::::::::::::	CRES	PLOTS	TREES	CuFt	BdFt
10S	08W	05 1	RAC1		A.	9.00	6	22	1	W
105	00 11	05 1				7.00		22	1	
				TREI		ESTIMATED TOTAL	S	ERCENT AMPLE		
		PLOTS	TREES	PER	PLOT	TREES	T	REES		50
REFC	ISE COUNT DREST	6	22 22		3.7	417		5.3	×	
COUR BLAN 100 %	NKS									
				STAND S	SUMMARY					
		SAMPLE TREES	TREES /ACRE	AVG BO	LE REL EN DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
DF		18	24.0	30.3	98 21.8	120.0	33,289	31,345	6,472	6,472
				2 102	27 (0	265	1,792	1,792	643	643
R ALI	DER	4	22.3	14.8	37 6.9	26.7	1,792	1,172		
TOTA	AL	4 22 E LIMITS OF	46.3	24.1	69 29.9		35,081	33,138	7,116	7,116
CON	AL FIDENCI 68.1	22 E LIMITS OF	46.3 THE SAMPL OF 100 THE	<i>24.1</i> E VOLUME WIL	69 29.9 L BE WITHIN	146.7 N THE SAMPI	35,081 LE ERROR	33,138	7,116	7,116
CON	AL FIDENCI 68.1 68.1 %	E LIMITS OF TIMES OUT COEFF	46.3 THE SAMPL OF 100 THE	24.1 JE VOLUME WIL SA	69 29.9  L BE WITHIN  MPLE TREE	146.7 N THE SAMPI S - BF	35,081 LE ERROR	33,138 OF TREES	7,116	7,116
CON	AL FIDENCI 68.1	22 E LIMITS OF TIMES OUT	46.3 THE SAMPL OF 100 THE	<i>24.1</i> E VOLUME WIL	69 29.9  L BE WITHIN  MPLE TREE  AVG	146.7 N THE SAMPI	35,081 LE ERROR	33,138	7,116	7,116
CON CL: SD:	AL FIDENCI 68.1 68.1 % 1.0	E LIMITS OF TIMES OUT COEFF VAR.%	46.3 THE SAMPL OF 100 THE S.E.%	24.1 JE VOLUME WIL SA LOW	69 29.9  L BE WITHIN  MPLE TREE  AVG  2,124	146.7 N THE SAMPI S - BF HIGH	35,081 LE ERROR	33,138 OF TREES	7,116	7,116
CON CL: SD: DF	AL FIDENCI 68.1 68.1 % 1.0 DER	E LIMITS OF TIMES OUT COEFF VAR.% 57.8	46.3 THE SAMPI OF 100 THE S.E.% 14.0	24.1  EE VOLUME WIL  SA  LOW 1,827	69 29.9  L BE WITHIN  MPLE TREE  AVG  2,124 155	146.7  N THE SAMPI S - BF  HIGH 2,421	35,081 LE ERROR	33,138 OF TREES	7,116	7,116  INF. POP.
CL: SD: DF R ALI	AL FIDENCI 68.1 68.1 % 1.0 DER	E LIMITS OF TIMES OUT COEFF VAR.% 57.8 131.3	46.3 THE SAMPL OF 100 THE S.E.% 14.0 75.0 16.7	24.1  EE  VOLUME WIL  SA  LOW  1,827 39 1,471	69 29.9  L BE WITHIN  MPLE TREE  AVG  2,124  155  1,766	146.7  N THE SAMPI S - BF  HIGH 2,421 271	35,081 LE ERROR #	33,138  OF TREES 5	7,116  REO. 10	7,116  INF. POP. 1:
CL: SD: DF R ALI	AL FIDENCE 68.1 68.1 % 1.0 DER AL	E LIMITS OF TIMES OUT COEFF VAR.% 57.8 131.3 76.6	46.3 THE SAMPI OF 100 THE S.E.% 14.0 75.0 16.7	24.1  EE  VOLUME WIL  SA  LOW  1,827 39 1,471	69 29.9  L BE WITHIN  MPLE TREE  AVG  2,124 155	146.7  N THE SAMPI S - BF  HIGH 2,421 271	35,081 LE ERROR #	33,138 OF TREES 5	7,116  REO. 10	7,116  INF. POP. 1: 27  INF. POP.
CL: SD: DF R ALI TOTA	68.1 % 1.0 DER 68.1 %	E LIMITS OF TIMES OUT COEFF VAR.% 57.8 131.3 76.6 COEFF	46.3 THE SAMPI OF 100 THE S.E.% 14.0 75.0 16.7	24.1  EE  VOLUME WIL  SA  LOW  1,827 39 1,471  TR	69 29.9  L BE WITHIN  MPLE TREE  AVG  2,124 155 1,766  EES/ACRE  AVG	146.7  N THE SAMPI S - BF  HIGH 2,421 271 2,061	35,081 LE ERROR #	33,138  OF TREES 5  245  OF PLOTS	7,116  REQ. 10  61  REQ.	7,116  INF. POP. 1: 27  INF. POP.
CCL: SD: DF R ALI TOTA CL: SD: DF R ALI	AL  FIDENCI 68.1  68.1 % 1.0  DER AL  68.1 % 1.0  DER	22 E LIMITS OF TIMES OUT  COEFF VAR.% 57.8 131.3 76.6 COEFF VAR.% 76.5 179.2	46.3 THE SAMPI OF 100 THE  S.E.% 14.0 75.0 16.7  S.E.% 34.0 79.8	24.1  LE  VOLUME WIL  SA  LOW  1,827 39 1,471  TR  LOW  16 5	69 29.9  L BE WITHIN  MPLE TREE  AVG  2,124 155 1,766  EES/ACRE  AVG  24 22	146.7  N THE SAMPI S - BF HIGH 2,421 271 2,061  HIGH 32 40	35,081 LE ERROR #	33,138  OF TREES 5  245  OF PLOTS 5	7,116  REQ. 10  61  REQ. 10	7,116  INF. POP. 1: 27  INF. POP. 1:
CL: SD: DF R ALI TOTA CL: SD: DF	AL  FIDENCI 68.1  68.1 % 1.0  DER AL  68.1 % 1.0  DER	E LIMITS OF TIMES OUT COEFF VAR.% 57.8 131.3 76.6 COEFF VAR.% 76.5	46.3 THE SAMPI OF 100 THE S.E.% 14.0 75.0 16.7 S.E.% 34.0	24.1  LE  VOLUME WIL  SA  LOW  1,827 39 1,471  TR  LOW 16	69 29.9  L BE WITHIN  MPLE TREE  AVG  2,124 155 1,766  EES/ACRE  AVG  24 22	146.7  N THE SAMPI S - BF  HIGH 2,421 271 2,061  HIGH 32	35,081 LE ERROR #	33,138  OF TREES 5  245  OF PLOTS	7,116  REQ. 10  61  REQ.	7,116 INF. POP.
CL: SD: DF R ALL TOTA CL: SD: DF R ALL TOTA	AL  FIDENCI 68.1  68.1 % 1.0  DER AL  68.1 % 1.0  DER	22 E LIMITS OF TIMES OUT  COEFF VAR.% 57.8 131.3 76.6 COEFF VAR.% 76.5 179.2	46.3 THE SAMPL OF 100 THE  S.E.% 14.0 75.0 16.7 S.E.% 34.0 79.8 30.0	24.1  LE  VOLUME WIL  SA  LOW  1,827 39 1,471  TR  LOW  16 5 32	69 29.9  L BE WITHIN  MPLE TREE  AVG  2,124 155 1,766  EES/ACRE  AVG  24 22	146.7  N THE SAMPI S - BF HIGH 2,421 271 2,061  HIGH 32 40 60	35,081 LE ERROR #	33,138  OF TREES 5  245  OF PLOTS 5	7,116  REQ. 10  61  REQ. 10	7,116  INF. POP. 1: 27  INF. POP. 1:
CL: SD: DF R ALL TOTA CL: SD: DF R ALL TOTA	AL  FIDENCE  68.1  68.1 %  1.0  DER  AL  68.1 %  1.0  DER  AL  68.1 %  1.0	22 E LIMITS OF TIMES OUT COEFF VAR.% 57.8 131.3 76.6 COEFF VAR.% 76.5 179.2 67.3	46.3 THE SAMPI OF 100 THE S.E.% 14.0 75.0 16.7 S.E.% 34.0 79.8 30.0	24.1  LE  VOLUME WIL  SA  LOW  1,827 39 1,471  TR  LOW  16 5 32	AVG 2,124 155 1,766  EES/ACRE AVG 24 22 46	146.7  N THE SAMPI S - BF HIGH 2,421 271 2,061  HIGH 32 40 60	35,081 LE ERROR #	33,138  OF TREES 5  245  OF PLOTS 5	7,116  REQ. 10  61  REQ. 10	7,116  INF. POP. 1: 27  INF. POP. 1:
CL: SD: DF R ALI TOTA CL: SD: DF R ALI TOTA	AL  FIDENCI  68.1  68.1 %  1.0  DER  AL  68.1 %  1.0  DER  AL  68.1 %	22 E LIMITS OF TIMES OUT  COEFF VAR.% 57.8 131.3 76.6 COEFF VAR.% 76.5 179.2 67.3 COEFF	46.3 THE SAMPI OF 100 THE  S.E.% 14.0 75.0 16.7 S.E.% 34.0 79.8 30.0 S.E.% 23.0	24.1  LE  VOLUME WIL  SA  LOW  1,827 39 1,471  TR  LOW  16 5 32  BA	69 29.9  L BE WITHIN  MPLE TREE  AVG  2,124 155 1,766  EES/ACRE  AVG  24 22 46  SAL AREA/A  AVG	146.7  N THE SAMPI S - BF HIGH 2,421 271 2,061  HIGH 32 40 60 ACRE	35,081 LE ERROR #	33,138  OF TREES 5  245  OF PLOTS 5  OF PLOTS	7,116  REQ. 10  61  REQ. 10  54  REQ.	7,116  INF. POP. 1: 27  INF. POP. 1: 24  INF. POP.
CL: SD: DF R ALI TOTA CL: SD: DF R ALI TOTA	AL  FIDENCI 68.1  68.1 % 1.0  DER AL  68.1 % 1.0  DER AL  68.1 % 1.0	22 E LIMITS OF TIMES OUT  COEFF VAR.% 57.8 131.3 76.6 COEFF VAR.% 76.5 179.2 67.3 COEFF VAR.% 51.6 122.5	46.3 THE SAMPI OF 100 THE  S.E.% 14.0 75.0 16.7  S.E.% 34.0 79.8 30.0  S.E.% 23.0 54.5	24.1  LE VOLUME WIL  SA LOW 1,827 39 1,471  TR LOW 16 5 32 BA LOW 92 12	L BE WITHIN  MPLE TREE  AVG  2,124  155  1,766  EES/ACRE  AVG  24  22  46  SAL AREA/A  AVG  120  27	146.7  N THE SAMPI S - BF HIGH 2,421 271 2,061  HIGH 32 40 60  ACRE HIGH 148 41	35,081 LE ERROR #	33,138  OF TREES 5  245  OF PLOTS 5  OF PLOTS 5	7,116  REQ. 10  61  REQ. 10  54  REQ. 10	7,116  INF. POP. 1: 27  INF. POP. 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1:
CL: SD: DF R ALI TOTA CL: SD: DF R ALI TOTA CL: SD: DF	AL  FIDENCE  68.1  68.1 %  1.0  DER  AL  68.1 %  1.0  DER  AL  68.1 %  1.0  DER  AL  68.1 %  1.0  DER	22 E LIMITS OF TIMES OUT  COEFF VAR.% 57.8 131.3 76.6 COEFF VAR.% 76.5 179.2 67.3 COEFF VAR.% 51.6	46.3 THE SAMPI OF 100 THE  S.E.% 14.0 75.0 16.7 S.E.% 34.0 79.8 30.0 S.E.% 23.0	24.1  LE VOLUME WIL  SA LOW 1,827 39 1,471  TR LOW 16 5 32 BA LOW 92	L BE WITHIN  MPLE TREE  AVG  2,124  155  1,766  EES/ACRE  AVG  24  22  46  SAL AREA/A  AVG  120  27	146.7  N THE SAMPI S - BF HIGH 2,421 271 2,061  HIGH 32 40 60  ACRE HIGH 148	35,081 LE ERROR #	33,138  OF TREES 5  245  OF PLOTS 5  OF PLOTS	7,116  REQ. 10  61  REQ. 10  54  REQ.	7,116  INF. POP. 1: 27  INF. POP. 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1:
CL: SD: DF R ALL TOTA CL: SD: DF R ALL TOTA CL: SD: TOTA	AL  FIDENCE  68.1  68.1 %  1.0  DER  AL  68.1 %  1.0  DER  AL  68.1 %  1.0  DER  AL  68.1 %  1.0  DER	22 E LIMITS OF TIMES OUT  COEFF VAR.% 57.8 131.3 76.6 COEFF VAR.% 76.5 179.2 67.3 COEFF VAR.% 51.6 122.5	46.3 THE SAMPI OF 100 THE  S.E.% 14.0 75.0 16.7  S.E.% 34.0 79.8 30.0  S.E.% 23.0 54.5 14.7	24.1  LE  VOLUME WIL  SA  LOW  1,827 39 1,471  TR  LOW  16 5 32  BA  LOW  92 12 125	L BE WITHIN  MPLE TREE  AVG  2,124  155  1,766  EES/ACRE  AVG  24  22  46  SAL AREA/A  AVG  120  27	146.7  N THE SAMPI S - BF HIGH 2,421 271 2,061  HIGH 32 40 60  ACRE HIGH 148 41	######################################	33,138  OF TREES 5  245  OF PLOTS 5  OF PLOTS 5	7,116  REO. 10  61  REO. 10  54  REQ. 10	7,116  INF. POP. 1: 2: INF. POP. 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1:
CL: SD: DF R ALI TOTA CL: SD: DF R ALI TOTA CL: SD: CL: SD: CL: SD: CL: SD: CL: SD: CL: SD:	AL  FIDENCE  68.1  68.1 %  1.0  DER  AL  68.1 %  1.0  DER  AL  68.1 %  1.0  DER  AL  68.1 %  1.0	22 E LIMITS OF TIMES OUT  COEFF VAR.% 57.8 131.3 76.6 COEFF VAR.% 76.5 179.2 67.3 COEFF VAR.% 51.6 122.5 33.0 COEFF VAR.%	46.3 THE SAMPI OF 100 THE  S.E.% 14.0 75.0 16.7  S.E.% 34.0 79.8 30.0  S.E.% 23.0 54.5 14.7  S.E.%	24.1  LE VOLUME WIL  SA LOW  1,827 39 1,471  TR LOW  16 5 32  BA LOW  92 12 125  NE LOW	L BE WITHIN  MPLE TREE  AVG  2,124  155  1,766  EES/ACRE  AVG  24  22  46  SAL AREA/A  AVG  120  27  147  T BF/ACRE  AVG	146.7  N THE SAMPI S - BF HIGH 2,421 271 2,061  HIGH 32 40 60  ACRE HIGH 148 41 168  HIGH	######################################	33,138  OF TREES 5  245  OF PLOTS 5  OF PLOTS 5	7,116  REO. 10  61  REO. 10  54  REQ. 10	7,116  INF. POP. 1: 27  INF. POP. 1: 1: 24
CL: SD: DF R ALL TOTA CL: SD: DF R ALL TOTA CL: SD: DF R ALL SD: DF R ALL TOTA	AL  FIDENCI  68.1  68.1  1.0  DER  AL  68.1  68.1  68.1  68.1  68.1  68.1  68.1  1.0  DER  AL  1.0	22 E LIMITS OF TIMES OUT  COEFF VAR.% 57.8 131.3 76.6 COEFF VAR.% 76.5 179.2 67.3 COEFF VAR.% 51.6 122.5 33.0 COEFF VAR.% 53.7	46.3 THE SAMPI OF 100 THE  S.E.% 14.0 75.0 16.7  S.E.% 34.0 79.8 30.0  S.E.% 23.0 54.5 14.7  S.E.% 23.9	24.1  LE VOLUME WILL  SA LOW  1,827 39 1,471  TR LOW  16 5 32  BA LOW  92 12 125  NE LOW 23,857	L BE WITHIN  MPLE TREE  AVG  2,124  155  1,766  EES/ACRE  AVG  24  22  46  SAL AREA/A  AVG  120  27  147  T BF/ACRE  AVG  31,345	146.7  N THE SAMPI S - BF HIGH 2,421 271 2,061  HIGH 32 40 60  ACRE HIGH 148 41 168  HIGH 38,833	######################################	33,138  OF TREES 5  245  OF PLOTS 5  OF PLOTS 5  52  OF PLOTS	7,116  REQ. 10  61  REQ. 10  54  REQ. 10  13  REQ.	7,116  INF. POP. 1: 27  INF. POP. 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1:
CL: SD: DF R ALI TOTA CL: SD: DF R ALI TOTA CL: SD: CL: SD: CL: SD: CL: SD: CL: SD: CL: SD:	AL  FIDENCI  68.1 %  1.0  DER  AL  68.1 %  1.0  DER  AL	22 E LIMITS OF TIMES OUT  COEFF VAR.% 57.8 131.3 76.6 COEFF VAR.% 76.5 179.2 67.3 COEFF VAR.% 51.6 122.5 33.0 COEFF VAR.%	46.3 THE SAMPI OF 100 THE  S.E.% 14.0 75.0 16.7  S.E.% 34.0 79.8 30.0  S.E.% 23.0 54.5 14.7  S.E.%	24.1  LE VOLUME WIL  SA LOW  1,827 39 1,471  TR LOW  16 5 32  BA LOW  92 12 125  NE LOW	L BE WITHIN  MPLE TREE  AVG  2,124  155  1,766  EES/ACRE  AVG  24  22  46  SAL AREA/A  AVG  120  27  147  T BF/ACRE  AVG  31,345  1,792	146.7  N THE SAMPI S - BF HIGH 2,421 271 2,061  HIGH 32 40 60  ACRE HIGH 148 41 168  HIGH	######################################	33,138  OF TREES 5  245  OF PLOTS 5  OF PLOTS 5  52  OF PLOTS	7,116  REQ. 10  61  REQ. 10  54  REQ. 10  13  REQ.	7,116  INF. POP. 1: 27  INF. POP. 1: 01  INF. POP.

TC TSTA	ATS				S	TATIS	FICS	yr — — — —	j	PAGE	1
				n ————	PROJE		RUDROAD	)			//5/2017
TWP	RGE	SECT	TRACT		TYPE	A	CRES	<b>PLOTS</b>	TREES	CuFt	BdFt
10S	08W	05	1		B		37.00	22	99	1	W
				<sup>18</sup> 7	ΓREES		ESTIMATED TOTAL		PERCENT SAMPLE	_	
		PLOTS	TREES	I	PER PLO	T	TREES		TREES	*	
TOTAI CRUIS DBH C REFOR	SE COUNT	22 11	99 57		4.5 5.2		1,312		4.3		
COUN BLANI 100 %	T KS	11	42	ii.	3.8						
				STAN	ND SUM	MARY					
	W	SAMPLE TREES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
DF		56		31.0	121	31.7	176.4	55,892	53,756	10,472	10,273
BL MA		1	1.7	14.0	25	0.5	1.8	68	68	31	31
TOTA	L	57	35.5	30.4	116	32.3	178.2	55,960	53,824	10,502	10,304
	68.1	TIMES OU	F THE SAMPI Γ OF 100 THE		WILL BI	E WITHIN	THE SAMPI	LE ERROR			
	68.1 %	COEF				LE TREE		#	OF TREES	REQ.	INF. POP.
SD: DF BL MA	1.0 APLE	VAR.9 46.6		LC 1	,734	AVG 1,849	HIGH 1,964		5	10	15
TOTA		48.8	6.5	1,	700	1,817	1,935		95	24	11
CL: 6	58.1 %	COEF	F		TREES	ACRE		#	OF PLOTS	REO.	INF. POP.
SD:	1.0	VAR.	% S.E.%	LC	W	AVG	HIGH	111	5	10	15
DF		34.2			31	34	36				
BL MA		469.0				2	3		Terror.		
TOTA		41.8	9.1		32	35	39		73	18	8
CL: 6		COEF				AREA/A		#	FOF PLOTS		INF. POP.
SD:	1.0	VAR.		LO		AVG			5	10	15
DF	DI E	27.7		×	166	176	187				
BL MA TOTAI		469.0			167	170	4		2.1	0	,
		28.3			167	178	189		34	8	4
CL: 6		COEF				F/ACRE		#	F OF PLOTS		INF. POP.
	1.0	VAR.9		LO		AVG	HIGH		5	10	15
DF DI MA	DI E	30.1		50	,229	53,756	57,283				
BL MA		469.0	102.2	50	288	68 53 824	138		20	0	.i
IUIAI	ы	30.1	6.6	30,	288	53,824	57,360		38	9	4

TC 7	rstndsu	ſМ					Stand	d Table	Summa	ry					
							Proj	ect	RUDRO	OAD					
T108 Twp 10S	R08W Rge 08W	Sec 05	0001 Trac 1	t		Т	Гуре <b>А</b>		cres 9.00	Plots 6	Sample T		T10S R0 Page: Date: Time:	08W S05 7 1 07/05/20 10:30:3	0:
	s	Sample	FF	Av Ht	Trees/	BA/	Logs	Avera Net	age Log Net	Tons/	Net Cu.Ft.	Net Bd.Ft.	Т	tals	
		I Trees	16'		Acre	Acre	Acre		Bd.Ft.	Acre	Acre	Acre	Tons	Cunits	MBF
DF DF	16 18		90 89	100 96	4.775 3.773	6.67 6.67	9.55 7.55	29.0 35.0	115.0 115.0		277 264	1,098 868		25 24	10 8
DF	23	Î	92	119	2.311	6.67	6.93	47.0	210.0		326	1,456		29	13
DF DF	28 29	1	91 91	119 132	1.559 1.453	6.67 6.67	4.68 4.36	66.7 81.0	326.7 346.7		312 353	1,528 1,512		28 32	14 14
DF DF	32 37	3	90 90	134 151	3.581 .893	20.00	9.55 2.68	109.1 145.7	522.5 713.3		1,042 390	4,990 1,911		94 35	45 17
DF DF	40 42	1 2	89 91	158 165	.764 1,386	6.67 13.33	2.29 4.16	175.0 198.2	896.7 1066.7		401 824	2,055 4,435		36 74	18 40
DF	43	1	89	158	.661	6.67	1.98	202.0	1010.0		401	2,003		36	18
DF DF	44 45	1	90 89	151 151	.631 .604	6.67 6.67	1.89 1.81	199.7 210.7	993.3 1103.3		378 381	1,881 1,998		34 34	17 18
DF DF	46 48	1	90 92	151 158	.578 .531	6.67 6.67	1.73 1.59	220.3 254.0	1160.0 1306.7		382 404	2,010 2,080		34 36	18 19
DF	49	1	90	132	.509	6.67	1.53	220.7	996.7		337	1,522		30	14
DF	Totals	18	90	124	24.007	120.00	62.28	103.9	503.3		6,472	31,345		583	282
RA RA RA	12 18 28	2 1 1	87 87 86	52 48 61	16.977 3.773 1.559	13.33 6.67 6.67	16.98 3.77 3.12	18.5 36.0 62.0	50.0 60.0 230.0		314 136 193	849 226 717		28 12 17	8 2 6
RA	Totals	12126	87	52	22.308	The street of th	23.87	26.9	75.1		643	1,792		58	16
Totals	+	22	89	89	46.315	146.67	86.15	82.6	384.7		7116	33,138		640	298

TC																
								Proj	ject	RUDRO	DAD					
T10 Twp 10S	)	R08W Rge 08W		002 Traci 1	t		,	Гуре В		cres 7.00	Plots 22	Sample T		T10S R0 Page: Date: Time:	08W S05 7 1 07/05/20 10:33:2	0:
Spc	S	I	Sample Trees	FF 16'	Av Ht Tot	Trees/	BA/ Acre	Logs Acre	Net	nge Log Net Bd.Ft.	Tons/	Net Cu.Ft. Acre	Net Bd.Ft. Acre	T ons	otals Cunits	MBF
DF	_	21	1	90	109	1.309	3.15	2.62	54.5	225.0	Trere	143	589	10113	53	22
DF		22	2	89	118	2.386	6.30	4.77	51.2	215.0		245	1,026		90	38
DF		24	1	90	145	1.002	3.15	3.01	51.0	233.3		153	702		57	26
DF		26	4	92	146	3.417		10.25	69.8	348.3		716	3,570		265	132
DF		27	2	91	148	1.584	6.30	4.75	76.3	383.3		363	1,822		134	67
DF		28	4	92	151	2.946	12.60	8.84	86.1	430.0		761	3,800		282	141
DF		29	3	91	142	2.060	9.45	6.18	85.2	425.6		527	2,630		195	97
DF		30	5	91	155	3.208	15.75	10.27	90.5	465.0		929	4,773		344	177
DF		31	2	91	155	1.202	6.30	3.61	99.7	536.7		359	1,935		133	72
DF		32	7	91	160	3.947	22.05	12.97	104.1	537.8		1,350	6,975		499	258
DF		33	4	92	155	2.121	12.60	6.36	114.5	600.8		729	3,823		270	141
DF		34	2	91	155	.999	6.30	3.00	125.5	676.7		376	2,028		139	75
DF		35	2	91	171	.943	6.30	3.77	108.4	587.5		409	2,215		151	82
DF		36	3	91	170	1.337	9.45	4.90	125.0	711.8		613	3,489		227	129
DF		37	3	90	160	1.265	9.45	3.80	149.6	807.8		568	3,066		210	113
DF		38	4	92	164			4.80	143.2	777.5		687	3,731		254	138
DF		39	4	90	171	1.519		5.69	125.1	699.3		713	3,982		264	147
DF		41	1	91	177	.343	3.15	1.37	154.2	877.5		212	1,206		78	45
DF		43	1	90	177	.312	3.15	1.25	167.8	932.5		210	1,165		78	43
DF		48	1	90	184	.251	3.15	1.00	213.0	1225.0		214	1,228		79	45
DF		Totals	56	91	152	33.750	176.36	103.20	99.5	520.9		10,273	53,756	1	3,801	1,989
ВМ		14	1	84	34	1.701	1.82	1.70	18.0	40.0		31	68		11	3
BM		Totals	1	84	34	1.701	1.82	1.70	18.0	40.0		31	68		11	3
Totals			57	91	146	35.451	178.18	104.91	98.2	513.1		10304	53,824		3,812	1,991

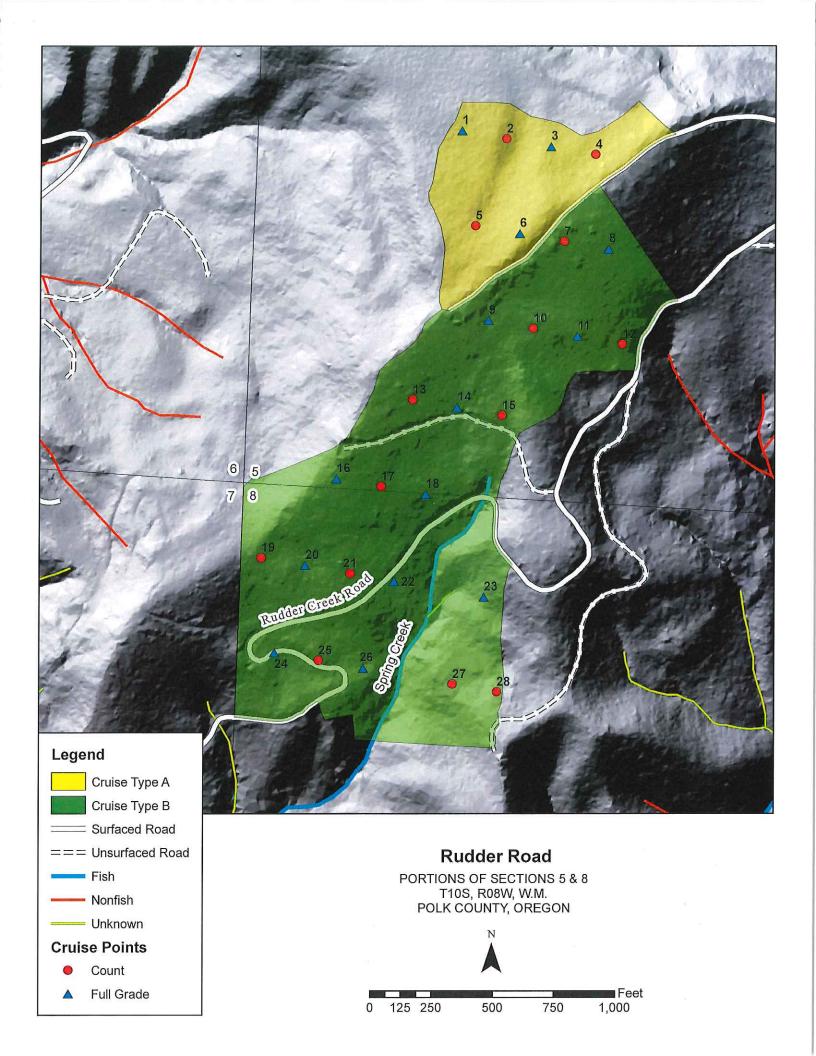
T '	rspcst(	GR			Specie	es, Sort ( Projec	Grade - Boar t: RUI	rd Foot DROAD	Volu	imes	(Тур	oe)				Pag Dat Tim	e 7	1 7/5/201 0:30:3	
T10S Twp 10S	) ]	S05 T00 Rge 98W	01 Sec 05 1	Tract		Туре		s F	Plots 6	,	Sampl	e Trees 22		C 1	'uFt	T10S R BdFt W	08W S0	)5 T00	01
			%					Percen	t Net	Boar	d Foot	Volum	e			Avera	ge Log		Logs
Spp	S So T rt		Net BdFt	Bd. Def%	Ft. per Acre Gross	Net	Total Net MBF	5,000,000	Scale			Log 12-20	21-30		36-99	Ln Dia Ft In	Bd Ft	CF/ Lf	Per /Acre
DF	D	2	70	4.1	23,085	22,133	199			6	94			3	97	39 21	826	4.04	26.8
DF	D	3	28	9.5	9,660	8,743	79		19	23	58	1	1	4	94	37 13	319	2.09	27.4
DF	D	4	2	13.5	543	469	4		59	41		15	12	32	41	28 7	58	0.86	8.1
DF	Totals		95	5.8	33,289	31,345	282		6	11	82	0	0	4	95	36 16	503	2.86	62.3
RA	D	CR	100		1,792	1,792	16		63		37	3	19	37	41	35 7	75	0.78	23.9
RA	Totals		5		1,792	1,792	16		63		37	3	19	37	41	35 7	75	0.78	23.9
Type To	otals			5.5	35,081	33,138	298		9	11	80	1	1	6	92	36 13	385	2.30	86.1

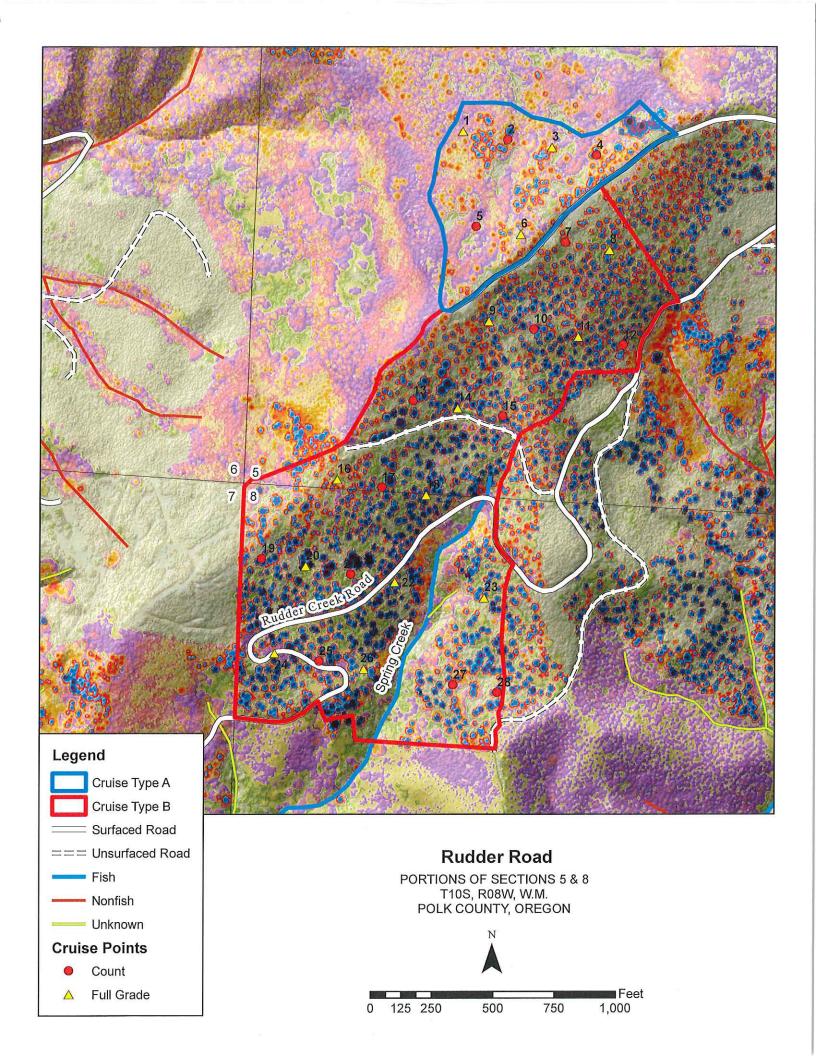
T	FSPCSTG	GR			Specie	s, Sort ( Project	Grade - Boar t: RUI	d Foot Vo DROAD	lume	s (Typ	oe)				Pag Dat Tim	e 7	1 /5/201 0:33:2	
T10S Twp 10S	F	805 T000 Rge 8W		Tract		Type B	Acre			Sampl	e Trees 57		C 1	uFt	T10S F BdFt W	108W S0	)5 T00	02
Spp	S So	Gr ad	% Net BdFt	Bd. i	Ft. per Acre Gross	Net	Total Net MBF	Percent N  Log Sc 4-5 6-11		a.		Leng		36-99	Avera Ln Dia Ft In	ge Log Bd Ft	CF/ Lf	Logs Per /Acre
DF DF	D	CU 2	94	100.0 1.7	1,242 51,673	50,792	1,879		15	85	0		4	96	11 25 39 20	673	0.00 3.17	5. 75.
DF DF	D D	3	5 1	.5	2,880 97	2,867 97	106 4	71 100	23	6	16 23	6 77	13	64	31 10 22 8	113 40	1.13 0.67	25.1 2.4
DF	Totals		100	3.8	55,892	53,756	1,989	. 4	16	80	1	0	4	94	36 17	497	2.67	108.3
BM	D	4	100		68	68	3	100				100			24 7	40	0.75	1.3
ВМ	Totals		0		68	68	3	100				100			24 7	40	0.75	1.3
Туре То	otals			3.8	55,960	53,824	1,991	4	16	80	1	1	4	94	35 17	489	2.65	110.0

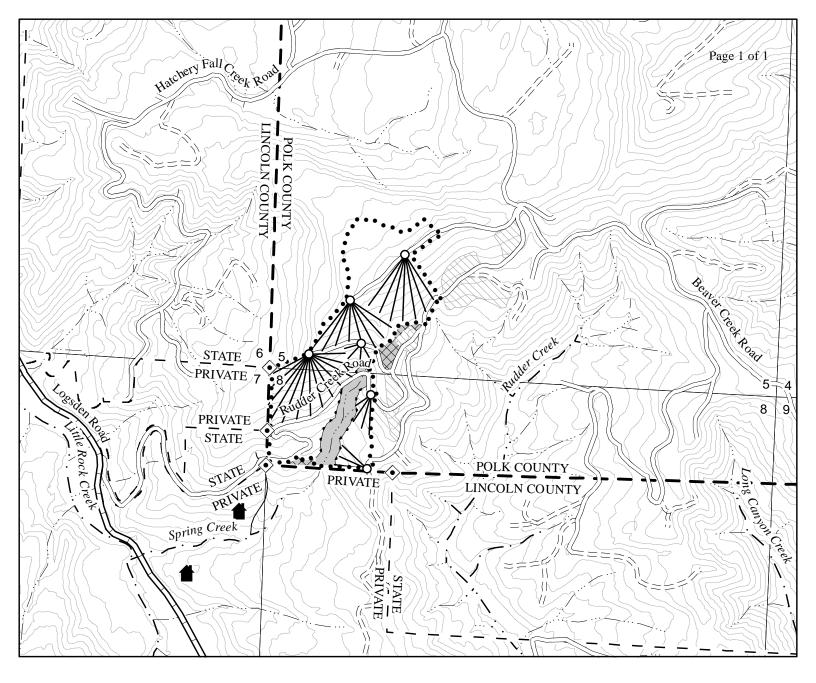
TC T	LOG	STVB					og Sto oject:	ck T	able - RU	MBF DRO <i>A</i>	D								63
T10S Twp 10S	]	8W S Rge 08W	S	0001 ec Tr: 05 1	act		Туре		Acres	00	Plots 6	Sampl	e Tre 22	es	) ]	OS R08 Page Date Fime	W S05 1 7/5/20 10:30		
	S So Gr Log Gross % Net % Net Volume by Scaling Diam												meter in	Inche	s				
Spp T	rt	de	Len	MBF	Def	MBF	Spc	2-3	4-5	6-7	8-9	10-11 1	2-13	14-15	16-19	20-23	24-29	30-39	40+
DF DF DF	D D D	2 2 2	32 36 37	7 2 2		7 2 2	2.3 .6 .6						3	3 2 2					
DF	D	2	40	198	4.3	189	67.1								23	50	52	64	
DF DF DF	D D D	3 3 3	20 22 32	1 1 1	18.2 8.3	1 1 1	.2 .3 .4				1	1		- 4	1	6-			
DF DF DF	D D D	3 3 3	33 36 37	2 1 3		2 1 3	.8 .5 1.1			2		2	1	1	*	20		9	
DF	D	3	40	77	10.3	69	24.6			11		10	8	6			16	29	
DF DF DF DF	D D D	4 4 4 4	20 22 33 40	1 1 2 2	20.0 20.0 10.0	1 1 1 2	.2 .2 .5 .6			1	. 1				2				
DF		Tot	als	300	5.8	282	94.6			4	1	12	13	15	25	50	68	93	
RA RA RA RA	D D D	CR CR	20 30 32 40	0 3 6 7		0 3 6 7	2.6 18.9 37.4 41.0			0 3 7					6		×		
RA		Tot	als	16		16	5.4			10					6				
Total All	Spe	cies		316	5.5	298	100.0			14	1	12	13	15	31	50	68	93	

TC T	LOGS	TVB					og Sto roject:	ck T		MBF DROA	D							
T10S Twp 10S	I	SW S Rge 98W	S		act		Type B		Acres		Plots 22	Samp	ole Tre 57	es	]	OS R08 Page Date Time	3W S05 1 7/5/20 10:33	
			Log	Gross	%	Net	%			Net V	olume b	y Scalii	ng Dia	meter ii	ı Inche	es		
Spp T	rt	de	Len	MBF	Def	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 DF DF DF DF DF		CU CU CU	J 4 J 8 J 10 J 12 J 20 J 45	8 13 25	100.0 100.0 100.0													2
DF DF DF	D D D	2 2 2	18 32 38	10 70 3	10.8	9 70 3	.5 3.5 .2						13	15	42			9
DF	D	2	40	1,829	1.7	1,797	90.4						39	109	290	660	620	80
DF DF DF DF DF DF DF DF	D D D D D D D D D	3 3 3 3 3 3 3	14 16 19 20 21 22 25 32	2 10 3 2 3 2 2 2		2 10 3 2 3 2 2 2	.1 .5 .2 .1 .2 .1 .1				2 2	5 2 2	1 1 4 1 2 2	2				
DF DF DF	D D D	3 3 3	36 38 40	33 3 33	1.5	33 3 33	1.7 1.7 .1 1.6			3	17	16 3 4	12		6			
DF DF	D D	4	14 24	1 3		1 3	.0 .1			1	1	1		5,				
DF		Tota	als	2,068	3.8	1,989	99.9			5	29	45	76	127	338	660	620	89
ВМ	D	4	24	3		3	100.0			3								
ВМ		Tota	als	3		3	.1			3								
Total All	Spec	ies		2,071	3.8	1,991	100.0			7	29	45	76	127	338	660	620	89

.







Legend

Boundaries

• • • • • Timber Sale Boundary

State Forest Property Boundary

County Line

Roads

County Road

Surfaced Road

Unsurfaced Road

Streams

· — · Type F Stream

Type D Stream

··· — · · Type N Stream

Posted Stream Buffer

Stream Buffer

Reforestation Area

- Cable Corridors



Land Survey Monument Green Tree Retention Area

Residence

#### LOGGING PLAN

OF TIMBER SALE CONTRACT NO. 341-18-055 RUDDER ROAD

PORTIONS OF SECTIONS 5 & 8, T10S, R8W, W.M., POLK COUNTY, OREGON

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 1:12,000

1,000 0 1,000 2,000

Feet

NET ACRES Cable = 27 NET ACRES Tractor = 19



Created By: Blake McKinley blake.mckinley@oregon.gov Date: 09/25/2017