

**District:** Forest Grove

November 07, 2011 Date:

### cost summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$1,193,143.33	\$0.00	\$1,193,143.33
		Project Work:	\$(93,500.00)
	A	dvertised Value:	\$1,099,643.33

1



"STEWARDSHIP IN FORESTRY"

**District:** Forest Grove

Date: No

November 07, 2011

### timber description

Location: Portions of Sections 5, 7, and 8, T1N, R5W, W.M., Tillamook County, Oregon.

Stand Stocking: 2

20%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	20	0	98
Western Hemlock / Fir	14	0	98
Grand Fir	21	0	98

Volume by Grade	2S	3S	48	Total
Douglas - Fir	2,223	1,032	178	3,433
Western Hemlock / Fir	0	102	40	142
Grand Fir	38	61	4	103
Total	2,261	1,195	222	3,678

11/7/11 2



"STEWARDSHIP IN FORESTRY"

District: Forest Grove

Date: November 07, 2011

comments: Pond Values Used: 3rd Quarter Calendar Year 2011.

Western redcedar and Other Cedars Stumpage Price = Pond Value minus Logging Cost: \$713.17/MBF = \$900/MBF - \$186.83/MBF

Red Alder and Other Hardoods Stumpage Price = Pond Value minus
Logging Cost:
\$398.17/MBF = \$585/MBF - \$186.83/MBF

SCALING COST ALLOWANCE = \$5.00/MBF

FUEL COST ALLOWANCE = \$4.00/Gallon

HAULING COST ALLOWANCE
Hauling costs equivalent to \$740 daily truck cost.

Other Costs (with Profit and Risk to be added): Brand and Paint: 3,678 MBF @\$1/MBF = \$3,678 Total Other Costs (with Profit & Risk to be added) = \$3,678

Other Costs (No Profit & Risk added): Machine time to block/waterbar roads, and skid trails: 10 Hours @ \$150/Hr. = \$1,500 Equipment Cleaning:  $2 \times $1,000/Piece = $2,000$  Slash Treatment:  $20 \text{ acres } \times $150/acre = $3,000$  Piling Landing Slash:  $10 \text{ hrs } \times $150/hr = $1,500$  Tree Topping:  $104 \text{ trees } \times $40/tree = $4,160$  TOTAL Other Costs (No Profit & Risk added) = \$12,160

ROAD MAINTENANCE Move-in: \$1,000

General Road Maintenance: 3.8 miles x \$1,000/mile = \$3,800

TOTAL: \$4,800 (\$1.31/MBF)

11/7/11 3



"STEWARDSHIP IN FORESTRY"

**Forest Grove** District:

November 07, 2011 Date:

### logging conditions

combination#: 1

Douglas - Fir

Grand Fir

64.00%

Western Hemlock / Fir

64.00%

yarding distance: Short (400 ft)

64.00% downhill yarding:

logging system: Shovel

Process: Stroke Delimber

tree size:

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

loads / day:

7.0

bd. ft / load:

4,200

No

4,200

cost / mbf:

\$48.92

machines:

Stroke Delimber (B)

combination#: 2

Douglas - Fir

36.00%

Western Hemlock / Fir

36.00%

Grand Fir

36.00%

varding distance: Short (400 ft)

downhill yarding: Process: Stroke Delimber

logging system:

Cable: Small Tower <=40

tree size: loads / day: Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF 6.0 bd. ft / load:

cost / mbf:

\$112.47

machines:

Log Loader (A)

Stroke Delimber (A) Tower Yarder (Small)



"STEWARDSHIP IN FORESTRY"

**District:** Forest Grove

Date:

November 07, 2011

logging costs

**Operating Seasons:** 

2.00

Profit Risk:

10.00%

**Project Costs:** 

\$93,500.00

Other Costs (P/R):

\$3,678.00

Slash Disposal:

\$0.00

Other Costs:

\$12,160.00

#### Miles of Road

Road Maintenance:

\$1.31

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	2.0	4.0
Western Hemlock / Fir	\$0.00	2.0	3.6
Grand Fir	\$0.00	2.0	4.2

11/7/11 5



"STEWARDSHIP IN FORESTRY"

**District:** Forest Grove

### Timber Sale Appraisal Devil's\_Boot Sale 341-12-10

Date:

November 07, 2011

### logging costs breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
Douglas -	Fir								
\$71.80	\$1.34	\$2.38	\$85.77	\$1.00	\$16.23	\$0.00	\$5.00	\$3.31	\$186.83
Western F	lemlock /	Fir							
\$71.80	\$1.34	\$2.38	\$95.30	\$1.00	\$17.18	\$0.00	\$5.00	\$3.31	\$197.31
Grand Fir									
\$71.80	\$1.34	\$2.38	\$81.69	\$1.00	\$15.82	\$0.00	\$5.00	\$3.31	\$182.34

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$516.94	\$330.11	\$0.00
Western Hemlock / Fir	\$0.00	\$430.77	\$233.46	\$0.00
Grand Fir	\$0.00	\$441.80	\$259.46	\$0.00



"STEWARDSHIP IN FORESTRY"

District: Forest Grove

Date:

November 07, 2011

### summary

An	no	I	1	ZI	3(	L

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

#### Unamortized

	1	1	I
Specie	MBF	Value	Total
Douglas - Fir	3,433	\$330.11	\$1,133,267,63
Western Hemlock / Fir	142	\$233.46	\$33,151.32
Grand Fir	103	\$259.46	\$26,724.38

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

Recovery:

\$1,193,143.33

Prepared by: Mark Savage

Phone: 503-359-7437

## DEVIL'S BOOT 341-12-10

### Volume Summary (Shown in MBF) September 2011

### Area 1: MC (104 Acres)

SPECIES		2 SAW	3 SAW	4 SAW	TOTAL
Douglas-fir	Cruise Volume	2268	1053	182	3503
	Hidden D&B	(45)	(21)	(4)	(70)
	Total	2223	1032	178	3433
	% Total	65	30	5	

SPECIES		2 SAW	3 SAW	4 SAW	TOTAL
Western hemlock	Cruise Volume		104	41	145
	Hidden D&B		(2)	(1)	(3)
	Total		102	40	142
	% Total		72	28	

SPECIES		2 SAW	3 SAW	4 SAW	TOTAL
Grand fir	Cruise Volume	39	62	4	105
	Hidden D&B	(1)	(1)	(0)	(2)
	Total	38	61	4	103
	% Total	37	59	4	

#### SALE TOTALS

DILLE TO TILLO	
SPECIES	TOTAL (MBF)
Douglas-fir	3433
Hemlock and Other Conifer	142
Grand fir	103
Total	3923

# TIMBER SALE SUMMARY Devil's Boot 341-12-10

1. Type of Sale: Modified clear cut, recovery, sealed bid auction

2. Revenue Distribution: 100% BOF, Tillamook County, Tax Code 56 (54%) & 9-2 (46%)

**3.** <u>Sale Acreage</u>: Approximately 104 acres of modified clearcut. Acres are net of buffers, roads, and retention areas and were determined using ESRI Arcmap GIS software.

4. <u>Cruise</u>: The Timber Sale was cruised with ODF cruiser variable radius plots. Volume estimates and plot data statistics were computed using SuperACE timber cruise software. For more information see the Cruise Report

5. Volume:

		2	3	4	
SPECIES		SAW	SAW	SAW	TOTAL
Douglas-fir	Cruise Volume	2268	1053	182	3503
	Hidden D&B	(45)	(21)	(4)	(70)
	Total	2223	1032	178	3433
	% Total	65	30	5	

SPECIES		2 SAW	3 SAW	4 SAW	TOTAL
Western hemlock	Cruise Volume		104	41	145
	Hidden D&B		(2)	(1)	(3)
	Total		102	40	142
	% Total		72	28	

SPECIES		2 SAW	3 SAW	4 SAW	TOTAL
Grand fir	Cruise Volume	39	62	4	105
	Hidden D&B	(1)	(1)	(0)	(2)
	Total	38	61	4	103
	% Total	37	59	4	

**TOTAL VOLUME: 3,678 MBF** 

**6.** <u>Timber Description</u>: The Sale Area is a stand of 60 year old Douglas-fir with components of Western hemlock and grand fir. The DBH averages 20 inches for Douglas-fir take trees, 14 inches for western hemlock, and 21 inches for Grand fir. The average net volume per acre is approximately 36 MBF.

- **7.** <u>Topography and Logging Method</u>: This timber sale is 64% ground based yarding and 36% cable yarding. The maximum ground yarding distance is approximately 1,400 feet horizontal distance, with an average yarding distance of about 500 feet. The maximum cable yarding distance is approximately 1,300 feet horizontal distance, with an average yarding distance of about 440 feet. Slopes range from 15% to 65%.
- **8.** <u>Access</u>: Follow Highway 6 just to the west of the summit and turn onto Beaverdam Road. Follow Beaverdam Road for 2.2 miles to the intersection of Beaverdam Road and Scoggins Creek Road. Turn left onto Scoggins Creek Road and follow for 1.6 miles to the sale area. See Exhibit A "Vicinity Map" for detailed access and haul route information. A gate key will be required.

9. 1	Projects:	
-	Project 1: 2.93 miles of road construction/improvement & gate installation	\$18,985.12
	Project 2: Road surfacing	\$28,469.81
	Project 3: Bridge installation	\$29,240.90
	Project 4: Grass seeding	\$788.00
	Project 5: Dust abatement	\$3,520.00
	Project 6: Replace Bridge Decking	\$4,700.00
	Move in:	\$7,788.54
	Total Credit for all Projects (rounded)	\$93,492.37
10.	Other Costs:	
	Other Costs with (P/R)	
	Brand and Paint: 3,678 MBF @ \$1.00/MBF =	\$3,678.00
	Total Other Costs with (P/R):	\$3,678.00
	Other Costs (no P/R)	
	Blocking/Waterbarring skid roads: 10 Hours @ \$150.00/hour =	\$1,500.00
	Equipment Cleaning: 2 x \$1,000/Piece =	\$2,000.00
	Slash Treatment: 20 acres x \$150/acre =	\$3,000.00
	Piling Landing Slash: 10 hours @ \$150.00/hour =	\$1,500.00
	Tree Topping: 104 trees x \$40/tree =	\$4,160.00
	Total Other Costs (no P/R):	\$12,160.00
	<b>Total Other Costs:</b>	\$15,838.00

#### PROJECT COST SUMMARY SHEET

Timber Sale: Devils Boot

Sale Number: 341-12-10

#### PROJECT NO. 1: ROAD CONSTRUCTION AND IMPROVEMENT

CONSTRUCTION

 Road Segment
 Length
 Cost

 B to C
 57+50
 \$14,611.97

 D to E
 6+50
 \$1,895.95

 64+00
 stations

1.21 miles

SUBTOTAL CONSTRUCTION

\$16,507.92

**IMPROVEMENTS** 

 Road Segment
 Length
 Cost

 90+60
 \$2,477.20

 90+60
 stations

 1.72 miles

SUBTOTAL IMPROVEMENTS

\$2,477.20

TOTAL PROJECT NO. 1 COST =

\$18,985.12

#### PROJECT NO. 2: SURFACING

Road Segment	Amount	Type	Cost
A to B	1,153 cy	1 1/2" - 0	\$6,825.76
B to C	2,245 cy	3" - 0	\$17,668.15
D to E	375 cy	3" - 0	\$2,827.50
Point F	100 cy	1 1/2" - 0	\$657.00
Point F	70 cy	24" - 6"	\$491.40
Total	1,253 cy	1 1/2" - 0	
	2,620 cy	3" - 0	
	70 cy	24" - 6	

TOTAL PROJECT NO. 2 COST =

\$28,469.81

#### PROJECT NO. 3: BRIDGE INSTALLATION

Install temporary bridge at Point F

\$29,240.90

TOTAL PROJECT NO. 3 COST =

\$29,240.90

#### PROJECT NO. 4: GRASS SEED, FERTILIZE, & MULCH

Grass seed, fertilize, & mulch areas of

\$788,00

disturbed soil.

TOTAL PROJECT NO. 4 COST =

\$788.00

#### PROJECT NO. 5: DUST ABATEMENT

Provide dust abatement treatment on

\$3,520.00

A to B, between stations 16+70 & 32+70

TOTAL PROJECT NO. 5 COST =

\$3,520.00

#### PROJECT NO. 6: REPLACE BRIDGE DECKING

TOTAL PROJECT NO. 6 COST =

\$4,700.00

MOVE IN & EQUIPMENT CLEANING

\$7,788.54

TOTAL ALL PROJECTS
TOTAL CREDITS

\$93,492.37 \$93,500.00

· Timber Sale:	D	evils Bo	ot			Timber	Sale No. :			341-12-10
Road Segment: _		A to B		<del></del>		Imp	rovement :	90+60	stations miles	
PROJECT NO. 1										
Grade and Ditch (0+00 to 82- Install a gate at 81+40 accordinated an OHV Trail filter on with a gate using existing bot Load and Haul 20 cubic year	ding to spec vest end of ulders onsite	the gate a accordir	and block all ng to the spe	other: ecificat	ions in Ex	round	per sta =		\$1,277.20 \$600,00 \$375.00 \$225.00	
					PRO	JECT	NO. 1 T	) JATC	COST =	\$2,477.20
PROJECT NO. 2:										
SURFACING Spot Rock (0+00 to 23+60) 3" Lift (24+00 to Pt. B) Turnouts (6) Total =	100 999 54 1153	cy of cy of cy of cy of	1 1/2"-0 1 1/2"-0 1 1/2"-0 1 1/2"-0	_ @ @		\$5.92	per cy = per cy = per cy =		\$592.00 \$5,914.08 \$319.68	
					PRO	JECT	NO. 2 T	OTAL (	COST =	\$6,825.76
PROJECT NO. 5:	Dust Al	oateme	ent				-			
Dust abatement treatment fr		6+70	320	10	If @	\$1.10	per If =		\$3,520.00	
to station 32+70 (2 applicati	ions)				PRO	JECT	NO. 5 T	OTAL (	COST =	\$3,520.00
							TOT	ΓAL C	ost =	\$12,822.96

cy of 3"-	5.28 57.50 2 6 2 1 1 57.50		\$1,274.00 \$90.00 \$60.00 \$75.00 \$285.00 \$145.00 \$28.70	per acre = per sta = per ea =	r	\$6,726.72 \$5,175.00 \$120.00 \$360.00 \$150.00 \$285.00 \$145.00 \$1,650.25	\$14,611.97
leep = 33 cy of 3"·	57.50 2 6 2 1 1 57.50	sta @ sta @ ea @ ea @ ea @ sta @ FF	\$1,274.00 \$90.00 \$60.00 \$75.00 \$285.00 \$145.00 \$28.70	per acre = per sta = per sta = per ea = per ea = per ea = per ea = per sta =	r	\$6,726.72 \$5,175.00 \$120.00 \$360.00 \$150.00 \$285.00 \$145.00 \$1,650.25	\$14,611.97
cy of 3"-	57.50 2 6 2 1 1 57.50	sta @ sta @ ea @ ea @ ea @ sta @ FF	\$90.00 \$60.00 \$60.00 \$75.00 \$265.00 \$145.00 \$28.70	per sta = per sta = per ea = per ea = per ea = per ea = per es = per sta =		\$6,726.72 \$5,175.00 \$120.00 \$360.00 \$150.00 \$285.00 \$145.00 \$1,650.25	\$14,611.97
cy of 3"-	57.50 2 6 2 1 1 57.50	sta @ sta @ ea @ ea @ ea @ sta @ FF	\$90.00 \$60.00 \$60.00 \$75.00 \$265.00 \$145.00 \$28.70	per sta = per sta = per ea = per ea = per ea = per ea = per es = per sta =	OTAL C	\$5,175.00 \$120.00 \$360.00 \$150.00 \$285.00 \$1,650.25	\$14,611.97
cy of 3"-	57.50 2 6 2 1 1 57.50	sta @ sta @ ea @ ea @ ea @ sta @ FF	\$90.00 \$60.00 \$60.00 \$75.00 \$265.00 \$145.00 \$28.70	per sta = per sta = per ea = per ea = per ea = per ea = per es = per sta =	OTAL C	\$5,175.00 \$120.00 \$360.00 \$150.00 \$285.00 \$1,650.25	\$14,611.97
cy of 3"-	57.50 2 6 2 1 1 57.50	sta @ sta @ ea @ ea @ ea @ sta @ FF	\$90.00 \$60.00 \$60.00 \$75.00 \$265.00 \$145.00 \$28.70	per sta = per sta = per ea = per sta =	OTAL C	\$5,175.00 \$120.00 \$360.00 \$150.00 \$285.00 \$1,650.25	\$14.611.97
cy of 3"-	2 6 2 1 1 57.50	sta @ ea @ ea @ ea @ ea @ sta @ FF	\$60.00 \$60.00 \$75.00 \$285.00 \$145.00 \$28.70	per sta = per ea = per ea = per ea = per ea = per sta =	OTAL C	\$120.00 \$360.00 \$150.00 \$285.00 \$145.00 \$1,650.25	\$14,611.97
cy of 3"-	6 2 1 1 57.50	ea @ ea @ ea @ ea @ sta @	\$60.00 \$75.00 \$285.00 \$145.00 \$28.70	per ea = per ea = per ea = per ea = per sta =	OTAL C	\$360.00 \$150.00 \$285.00 \$145.00 \$1,650.25	\$14,611.97
cy of 3"-	. 2 1 1 57.50	ea @ ea @ ea @ sta @ PF	\$75.00 \$285.00 \$145.00 \$28.70	per ea = per ea = per ea = per sta =	OTAL C	\$150.00 \$285.00 \$145.00 \$1,650.25	\$14,611.97
cy of 3"-	1 1 57.50	ea @ ea @ sta @ PF	\$285.00 \$145.00 \$28.70	per ea = per ea = per sta =	OTAL C	\$285.00 \$145.00 \$1,650.25	\$14,611.97
cy of 3"-	1 57.50 cy/sta_	ea @ sta @ PF	\$145.00 \$28.70	per ea.= per sta.=	OTAL C	\$1,45.00 \$1,650.25	\$14,611.97
cy of 3"-	57.50 cy/sta	sta @	\$28.70	per sta =	OTAL C	\$1,650.25	\$14,611.97
cy of 3"-	cy/sta	PF		-	OTAL C		\$14,611.97
cy of 3"-			ROJECT	NO. 1 T	OTAL C	OST = .	\$14,611.97
cy of 3"-							
cy of 3"-							
cy of 3"-		_					
-	- N (	_					
	•	@	\$7.87	per cy =	!	\$14,937.26	
-		@		percy=		\$188.88	
cy of 3"-		@	\$7.87	per cy =		\$519.42	
cy of 3" -		<u>@</u>		percy=		\$314.80	
cy of 3"-	-0 (	@		percy=		\$157.40	
cy of 3"	-0 (	@	\$7.87	per cy =	_	\$1,550.39	
cylof 3"-	- 0						
		PF	ROJECT	NO. 2 T	OTAL C	OST =	\$17,668.15
							7,200,10
					•		
bed soil.	2.64 6	acres @	\$200.00	per acre =		\$528.00	
		PF	ROJECT	NO. 4 T	OTAL C	OST =	\$528.00
	cy of 3"	cy of 3"-0 (	cý of 3"-0 @  cy of 3"-0  PF  Ded soil. 2.64 acres @	cy of 3"-0 @ \$7.87 cy of 3"-0 PROJECT  ped soil. 2.64 acres @ \$200.00	cy of 3"-0 @ \$7.87 per cy =  cy of 3"-0  PROJECT NO. 2 T  ped soil. 2.64 acres @ \$200.00 per acre =	cy of 3"-0 @ \$7.87 per cy = cy of 3"-0  PROJECT NO. 2 TOTAL C  ped soil. 2.64 acres @ \$200.00 per acre =	cy of 3"-0 @ \$7.87 per cy =

Timber Sale:		Devils Bo	ot		Timber Sale No.:		:		341-12-10	
Road Segment:		D to E				Co	nstruction	6+50		
PROJECT NO. 1										
EXCAVATION  Clearing and Grubbing (S Balanced Road Construct Construct Turnaround (1) Landing Grade, Ditch, and Roll	ction			0.60 6.50 1 1 6.50	acres @ sta @ ea @ ea @ sta @	\$90.00 \$75.00 \$285.00	per acre = per sta = per ea = per ea = per sta =		\$764.40 \$585.00 \$75.00 \$285.00 \$186.55	
					PR	OJECT	NO. 1 7	OTAL	COST =	\$1,895.95
PROJECT NO. 2	) - 									M
SURFACING	6	" deep =	33 cy/	sta.						
D to E Turnaround Landing (1) Total =	215 10 150	cy of cy of cy of	3" - 0 3" - 0 3" - 0		@ @ @	\$7.54	percy = percy = percy =		\$1,621.10 \$75.40 \$1,131.00	
	375	cy of	3"-0		PR	OJECT	NO. 2 T	OTAL	COST =	\$2,827.50
PROJECT NO. 4	l:				,					
Grass seed and fertilize	areas of d	isturbed soi	l.	0.30	acres @	\$200.00	per acre =		\$60.00	
•					PR	OJECT	NO. 4 T	OTAL	COST =	\$60.00
							TO			Φ4.700.4C

Devils Boot

Timber Sale:

Timber Sale No. :

341-12-10

Road Segment: Point F, Bridge Installation PROJECT NO. 3 **EXCAVATION** Fill Excavation & Endhaul cy@ 790 \$2.41 percy = \$1,903,90 Excavate & Load 790 cy@ \$2.05 percy = \$1,619.50 Haul Shape and Compact Waste Area 790 cy@ \$0.75 percy= \$592.50 TOTAL EXCAVATION COSTS= \$4,115.90 **EROSION CONTROL** Volume pump 2 days @ \$75.00 perday = \$150.00 Sandbags 20 bags@ \$5.00 perbag = \$100,00 / Silt Fencing 100 feet@ \$4.00 perfoot = \$400.00 Check dam material unit@ \$200.00 perunit= \$200.00 TOTAL EROSION CONTROL COSTS= \$850.00 **BRIDGE MATERIALS** 53 foot rail car bridge w/ timber decking \$21,800.00 including delivery of bridge) Installation (Excavator) 15 hr @ \$165.00 perhr= TOTAL BRIDGE MATERIAL COSTS= \$24,275.00 PROJECT NO. 3 TOTAL COST = \$29,240,90 PROJECT NO. 2: SURFACING 0 Crushed rock for abutments 40 cy of 1.1/2" - 0@ \$6.57 percy= \$262.80 cy of \$6.57 percy= 11/2" - 0\$394.20 Crushed rock for approaches 60 **(2)** 24" - 6" \$7.02 percy= \$491.40 Riprap (including placement) 70 cy of @ Total = 100 cy of 11/2"-0 70 cy of 24" - 6" PROJECT NO. 2 TOTAL COST = \$1,148.40 PROJECT NO. 4: \$200.00 per acre = Grass seed and fertilize areas of disturbed soil. 0.25 acres @ \$50,00 Mulch 0,25 acres @ \$600.00 per acre = \$150.00 PROJECT NO. 4 TOTAL COST = \$200.00 TOTAL COST = \$30,589.30

Timber Sale:	Devils Boot	Timber Sale No. :	341-13	2-10
Point:	G			
	BRIDGE DECK REF	PLACEMENT		
Wood and Hardware Labor and Equipment			\$3,200.00 \$1,500.00	
		PROJECT NO. 6 TOTAL	COST = _	\$4,700.00
		TOTAL	OCT -	£4.700.00

#### Move-In Calculations

Timber Sale: Devils Boot
Sale Number: 341-12-10

LO	WBOY HAU	L
DIST. (mi)	ROADWA Y	SPEED (mph)
3.5	Main Lines	7
0.0	Steep Grades	2

						Within	-			Within	
	_	Equipmen <sup>-</sup>	Base	Woods	Pilot	Area	Begin	End	Total	Area	Total
No.	DESCRIPTION	Cleaning	Cost	Cost	Cars	Move	Mileage	Mileage	Miles	Cost	Cost
0	Drill & Compressor		\$0.00	\$0.00		\$46.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
0	Brush Cutter		\$0.00	\$0.00		\$4.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1	Graders	\$1,000	\$300.00	\$90.00		\$3.65	\$0.00	\$0.00	\$0.00	\$0.00	\$1,390.00
0	Loader (Small)		\$0.00	\$0.00	1	\$3.55	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1	Loader (Med. & Large)		\$414.39	\$170.78	1	\$9.00	\$0.00	\$0.00	\$0.00	\$0.00	\$585.17
1	Rollers & Compactors		\$308.59	\$120.75		\$5.00	\$0.00	\$0.00	\$0.00	\$0.00	\$429.34
0	Excavators (Small)		\$0.00	\$0.00		\$22.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1	Excavators (Med.)	\$1,000	\$330.44	\$150.08		\$35.50	\$0.00	\$0.00	\$0.00	\$0.00	\$1,480.52
1	Excavators (Large)	\$1,000	\$466.14	\$186.30	1	\$44.80	\$0.00	\$0.00	\$0.00	\$0.00	\$1,652.44
0	Tired Backhoes/Skidders		\$0.00	\$0.00		\$3.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
0	Tractors (D6)		\$0.00	\$0.00	2	\$7.10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
0	Tractors (D7)		\$0.00	\$0.00	2	\$11.30	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1	Tractor (D8)	\$1,000	\$473.80	\$177.10	2	\$15.10	\$0.00	\$0.00	\$0.00	\$0.00	\$1,650.90
3	Dump Truck (10 cy +)		\$350.00	\$105.00		\$2.85	\$0.00	\$0.00	\$0.00	\$0.00	\$455.00
0	Dump Truck (Off Hiway)		\$0.00	\$0.00	1	\$4.75	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
0	Water Truck (1500 Gal)		\$0.00	\$0.00		\$2.85	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1	Water Truck (2500 Gal)		\$111.67	\$33.50		\$2.85	\$0.00	\$0.00	\$0.00	\$0.00	\$145.17
						TOTAL MO	OVE-IN (	COSTS:			\$7,788.54

#### CRUISE REPORT Devil's Boot 341-12-10

**1. ACREAGE CALCULATION:** The Timber Sale Area is 104 acres, determined with ESRI ArcMap GIS Software. Acres are net of stream buffers, leave areas, and existing roads.

#### 2. SAMPLING INTENSITY:

The cruise design assumed a Coefficient of Variation (CV%) of 50%, a desired sampling error (SE%) of 10% and a minimum sample size of 100 grade trees. The Sale Area was cruised in 05/04/2011 with 27 variable radius grade plots. 129 trees were measured and graded. This produced an acceptable cumulative sampling error of 9.1%.

#### 3. SAMPLING METHOD:

Pre-cruise plots indicated an optimal 6 to 8 grade trees per plot, and a total sample size of 100 or more trees could be realized with a variable radius plot using a 40 BAF prism. Plots were laid out on a 6 chain x 6 chain grid. Plots falling on or near existing roads or no-harvest areas were offset 1 chain.

#### 4. TREE MEASUREMENT AND GRADING:

All (grade plot) sample trees were measured and graded following Columbia River Log Scale grade rules and favoring 40 foot segments.

- a) **Height Standards:** Total tree heights were measured to the nearest foot. Bole heights were calculated to a six inch top.
- b) **Diameter Standards:** Diameters were measured outside bark at breast height to the nearest inch.
- c) **Form Factors** were measured for each grade tree using a form point of 16 feet.

#### 5. DATA PROCESSING:

- Volumes and Statistics, Cruise volume estimates and sampling statistics, were derived from Super Ace 2008 cruise software.
- b) **Deductions:** Two percent of the volume was subtracted from the computed volumes to account for hidden defect and breakage.

#### 6. Cruisers:

The sale was cruised by ODF cruisers:	Peter Stone,	Nathan Agalzoff,	and Mark
Savage.		_	

Prepared by:		
, ,	ODF Forester	Date
Reviewed by:		
•	Eric Foucht	Date

TC PSTATS	PSTATS PROJECT S PROJECT							STATISTICS DVLSBOOT							
TWP RGE	GE SC TRACT TYPE					AC	RES	PLOTS	TREES	CuFt	BdFt				
01N 06	08	1	]	MC			104.00	27	129	S	W				
					TREES		ESTIMATED TOTAL		ERCENT SAMPLE						
		PLOTS	TREES		PER PLOT		TREES		TREES						
TOTAL		27	129		4.8										
CRUISE DBH COUNT REFOREST COUNT BLANKS 100 %		27	129		4.8		9,600		1.3						
100 /0				STA	ND SUM	MARY									
	C	AMPLE	TREES				TAPAG	CDOSS	NIET	CDOCC	NET				
	۵.	TREES	ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC				
DOUG FIR-L		5	1.0	37.2	130	1.2	7.4	1,897	1,897	372	372				
DOUG FIR-T		114	79.8	19.7	100	38.1	168.9	33,953	33,679	7,256	7,256				
WHEMLOCK	-Т	6	9.0	13.5	84	2.4	8.9	1,394	1,394	344	344				
GR FIR-T	-	4	2.5	20.8	94	1.3	5.9	1,041	1,011	239	239				
TOTAL		129	92.3	19.5	99	43.3	191.1	38,286	37,982	8,210	8,210				
	3.1		T OF 100 T	HE VOLU			HIN THE SAN								
CL 68.1		COEFF				E TREE		#	OF TREES		INF. POP.				
SD: 1.0											1.5				
		VAR.%	S.E.%	<u>l</u>	.OW	AVG	HIGH		5	10	13				
DOUG FIR-L	•	25.4	12.6	1	1,730	1,980	2,230			10	13				
DOUG FIR-L DOUG FIR-T	· T'	25.4 58.0	12.6 5,4	1	1,730 578	1,980 611	2,230 645			10	13				
DOUG FIR-L DOUG FIR-T WHEMLOCK	<u>-</u> -T	25.4 58.0 47.5	12.6 5.4 21.2	<u>l</u>	1,730 578 147	1,980 611 187	2,230 645 226		3	10	13				
DOUG FIR-L DOUG FIR-T WHEMLOCK GR FIR-T	<u>-</u> -T	25.4 58.0 47.5 51.8	12.6 5.4 21.2 29.6	1	1,730 578 147 327	1,980 611 187 465	2,230 645 226 603		-						
DOUG FIR-L DOUG FIR-T WHEMLOCK GR FIR-T TOTAL	-Τ	25.4 58.0 47.5 51.8 70.2	12.6 5.4 21.2	1	1,730 578 147 327 601	1,980 611 187 465 640	2,230 645 226 603 680	II.	197	49	22				
DOUG FIR-L DOUG FIR-T WHEMLOCK GR FIR-T TOTAL CL 68.1	T	25.4 58.0 47.5 51.8 70.2 COEFF	12.6 5.4 21.2 29.6 6.2		1,730 578 147 327 601 SAMPL	1,980 611 187 465 640 E TREE	2,230 645 226 603 680 S - CF	#	197 OF TREES	<i>49</i> REO.	<i>22</i> INF. POP.				
DOUG FIR-L DOUG FIR-T WHEMLOCK GR FIR-T TOTAL  CL 68.1 SD: 1.0	-T	25.4 58.0 47.5 51.8 70.2 COEFF VAR.%	12.6 5.4 21.2 29.6 6.2 S.E.%		1,730 578 147 327 601 SAMPL	1,980 611 187 465 <i>640</i> E TREE AVG	2,230 645 226 603 680 S - CF HIGH	#	197	49	<i>22</i> INF. POP.				
DOUG FIR-L DOUG FIR-T WHEMLOCK GR FIR-T TOTAL  CL 68.1 SD: 1.0 DOUG FIR-L	T	25.4 58.0 47.5 51.8 70.2 COEFF VAR.% 18.3	12.6 5.4 21.2 29.6 6.2 S.E.%		1,730 578 147 327 601 SAMPL OW 351	1,980 611 187 465 640 E TREE AVG 386	2,230 645 226 603 680 S - CF HIGH 421	#	197 OF TREES	<i>49</i> REO.	<i>22</i> INF. POP.				
DOUG FIR-L DOUG FIR-T WHEMLOCK GR FIR-T TOTAL  CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-T		25.4 58.0 47.5 51.8 70.2 COEFF VAR.% 18.3 54.4	12.6 5.4 21.2 29.6 6.2 S.E.% 9.1 5.1		1,730 578 147 327 601 SAMPL .OW 351 124	1,980 611 187 465 <i>640</i> E TREE AVG	2,230 645 226 603 680 S - CF HIGH 421 137	#	197 OF TREES	<i>49</i> REO.	<i>22</i> INF. POP.				
DOUG FIR-L DOUG FIR-T WHEMLOCK GR FIR-T TOTAL  CL 68.1 SD: 1.0 DOUG FIR-L		25.4 58.0 47.5 51.8 70.2 COEFF VAR.% 18.3	12.6 5.4 21.2 29.6 6.2 S.E.%		1,730 578 147 327 601 SAMPL OW 351	1,980 611 187 465 640 E TREE AVG 386 130	2,230 645 226 603 680 S - CF HIGH 421	#	197 OF TREES	<i>49</i> REO.	<i>22</i> INF. POP.				
DOUG FIR-L DOUG FIR-T WHEMLOCK GR FIR-T TOTAL  CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-T WHEMLOCK		25.4 58.0 47.5 51.8 70.2 COEFF VAR.% 18.3 54.4 50.1	12.6 5.4 21.2 29.6 6.2 S.E.% 9.1 5.1 22.3		1,730 578 147 327 601 SAMPL .OW 351 124 36	1,980 611 187 465 640 E TREE AVG 386 130 46	2,230 645 226 603 680 S - CF HIGH 421 137 57	#	197 OF TREES	<i>49</i> REO.	22 INF. POP. 15				
DOUG FIR-L DOUG FIR-T WHEMLOCK GR FIR-T TOTAL  CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-T WHEMLOCK GR FIR-T TOTAL		25.4 58.0 47.5 51.8 70.2 COEFF VAR.% 18.3 54.4 50.1 40.7	12.6 5.4 21.2 29.6 6.2 S.E.% 9.1 5.1 22.3 23.3		1,730 578 147 327 601 SAMPL .OW 351 124 36 82 128	1,980 611 187 465 640 E TREE AVG 386 130 46 107 136	2,230 645 226 603 680 S - CF HIGH 421 137 57 132		197 OF TREES 5	49 REO. 10	22 INF. POP. 15				
DOUG FIR-L DOUG FIR-T WHEMLOCK GR FIR-T TOTAL  CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-T WHEMLOCK GR FIR-T		25.4 58.0 47.5 51.8 70.2 COEFF VAR.% 18.3 54.4 50.1 40.7 64.0	12.6 5.4 21.2 29.6 6.2 S.E.% 9.1 5.1 22.3 23.3	I	1,730 578 147 327 601 SAMPL .OW 351 124 36 82	1,980 611 187 465 640 E TREE AVG 386 130 46 107 136	2,230 645 226 603 680 S - CF HIGH 421 137 57 132		197 OF TREES 5	49 REO. 10	22 INF. POP. 15 18 INF. POP.				
DOUG FIR-L DOUG FIR-T WHEMLOCK GR FIR-T TOTAL  CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-T WHEMLOCK GR FIR-T TOTAL  CL 68.1		25.4 58.0 47.5 51.8 70.2 COEFF VAR.% 18.3 54.4 50.1 40.7 64.0 COEFF	12.6 5.4 21.2 29.6 6.2 S.E.% 9.1 5.1 22.3 23.3 5.6	I	1,730 578 147 327 601 SAMPL .OW 351 124 36 82 128 TREES/	1,980 611 187 465 640 E TREE AVG 386 130 46 107 136	2,230 645 226 603 680 S - CF HIGH 421 137 57 132 143		197 OF TREES 5	49 REO. 10	22 INF. POP. 15 18 INF. POP.				
DOUG FIR-L DOUG FIR-T WHEMLOCK GR FIR-T TOTAL  CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-T WHEMLOCK GR FIR-T TOTAL  CL 68.1 SD: 1.0		25.4 58.0 47.5 51.8 70.2 COEFF VAR.% 18.3 54.4 50.1 40.7 64.0 COEFF VAR.% 271.1 69.5	12.6 5.4 21.2 29.6 6.2 S.E.% 9.1 5.1 22.3 23.3 5.6	I	1,730 578 147 327 601 SAMPL .OW 351 124 36 82 128 TREES/	1,980 611 187 465 640 E TREE AVG 386 130 46 107 136 ACRE AVG	2,230 645 226 603 680 S - CF HIGH 421 137 57 132 143		197 OF TREES 5	49 REO. 10	22 INF. POP. 15 18 INF. POP.				
DOUG FIR-L DOUG FIR-T WHEMLOCK GR FIR-T TOTAL  CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-T WHEMLOCK GR FIR-T TOTAL  CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-T WHEMLOCK WHEMLOCK WHEMLOCK WHEMLOCK WHEMLOCK	-T	25.4 58.0 47.5 51.8 70.2 COEFF VAR.% 18.3 54.4 50.1 40.7 64.0 COEFF VAR.% 271.1 69.5 293.3	12.6 5.4 21.2 29.6 6.2 S.E.% 9.1 5.1 22.3 23.3 5.6 S.E.% 53.1 13.6 57.5	I	1,730 578 147 327 601 SAMPL OW 351 124 36 82 128 TREES/ OW 0 69 4	1,980 611 187 465 640 E TREE AVG 386 130 46 107 136 ACRE AVG 1 80 9	2,230 645 226 603 680 S - CF HIGH 421 137 57 132 143 HIGH 2 91		197 OF TREES 5	49 REO. 10	22 INF. POP. 15 INF. POP.				
DOUG FIR-L DOUG FIR-T WHEMLOCK GR FIR-T TOTAL  CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-T WHEMLOCK GR FIR-T TOTAL  CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-L DOUG FIR-L DOUG FIR-L DOUG FIR-L DOUG FIR-T WHEMLOCK GR FIR-T	-T	25.4 58.0 47.5 51.8 70.2 COEFF VAR.% 18.3 54.4 50.1 40.7 64.0 COEFF VAR.% 271.1 69.5 293.3 320.1	12.6 5.4 21.2 29.6 6.2 S.E.% 9.1 5.1 22.3 23.3 5.6 S.E.% 53.1 13.6 57.5 62.7	I	1,730 578 147 327 601 SAMPL OW 351 124 36 82 128 TREES/ OW 0 69 4 1	1,980 611 187 465 640 E TREE AVG 386 130 46 107 136 ACRE AVG 1 80 9	2,230 645 226 603 680  S - CF HIGH 421 137 57 132 143  HIGH 2 91 14 4		197 OF TREES 5  163 OF PLOTS 5	49 REO. 10  41 REO. 10	22 INF. POP. 15 INF. POP. 15				
DOUG FIR-L DOUG FIR-T WHEMLOCK GR FIR-T TOTAL  CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-T WHEMLOCK GR FIR-T TOTAL  CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-T WHEMLOCK WHEMLOCK WHEMLOCK WHEMLOCK WHEMLOCK	-T	25.4 58.0 47.5 51.8 70.2 COEFF VAR.% 18.3 54.4 50.1 40.7 64.0 COEFF VAR.% 271.1 69.5 293.3	12.6 5.4 21.2 29.6 6.2 S.E.% 9.1 5.1 22.3 23.3 5.6 S.E.% 53.1 13.6 57.5	I	1,730 578 147 327 601 SAMPL OW 351 124 36 82 128 TREES/ OW 0 69 4	1,980 611 187 465 640 E TREE AVG 386 130 46 107 136 ACRE AVG 1 80 9	2,230 645 226 603 680 S - CF HIGH 421 137 57 132 143 HIGH 2 91		197 OF TREES 5	49 REO. 10	22 INF. POP. 15 INF. POP. 15				
DOUG FIR-L DOUG FIR-T WHEMLOCK GR FIR-T TOTAL  CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-T WHEMLOCK GR FIR-T TOTAL  CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-L DOUG FIR-L DOUG FIR-L DOUG FIR-L DOUG FIR-T WHEMLOCK GR FIR-T	-T	25.4 58.0 47.5 51.8 70.2 COEFF VAR.% 18.3 54.4 50.1 40.7 64.0 COEFF VAR.% 271.1 69.5 293.3 320.1 68.8 COEFF	12.6 5.4 21.2 29.6 6.2 S.E.% 9.1 5.1 22.3 23.3 5.6 S.E.% 53.1 13.6 57.5 62.7	I	1,730 578 147 327 601 SAMPL .OW 351 124 36 82 128 TREES/ .OW 0 69 4 1 80	1,980 611 187 465 640 E TREE AVG 386 130 46 107 136 ACRE AVG 1 80 9	2,230 645 226 603 680 S - CF HIGH 421 137 57 132 143  HIGH 2 91 14 4 105  CRE	#	197 OF TREES 5  163 OF PLOTS 5	49 REO. 10  41 REO. 10	22 INF. POP. 15 INF. POP. 15				
DOUG FIR-L DOUG FIR-T WHEMLOCK GR FIR-T TOTAL  CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-T WHEMLOCK GR FIR-T TOTAL  CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-L DOUG FIR-L TOUG FIR-T WHEMLOCK GR FIR-T TOTAL  CL 68.1 SD: 1.0  CL 68.1 SD: 1.0	-T	25.4 58.0 47.5 51.8 70.2 COEFF VAR.% 18.3 54.4 50.1 40.7 64.0 COEFF VAR.% 271.1 69.5 293.3 320.1 68.8 COEFF VAR.%	12.6 5.4 21.2 29.6 6.2 S.E.% 9.1 5.1 22.3 23.3 5.6 S.E.% 53.1 13.6 57.5 62.7 13.5	I	1,730 578 147 327 601 SAMPL OW 351 124 36 82 128 TREES/ OW 0 69 4 1 80 BASAL	1,980 611 187 465 640 E TREE AVG 386 130 46 107 136 ACRE AVG 1 80 9 3 92 AREA/A	2,230 645 226 603 680 S - CF HIGH 421 137 57 132 143  HIGH 2 91 14 4 105  CRE HIGH	#	197 OF TREES 5  163 OF PLOTS 5	49 REO. 10  41 REO. 10	22 INF. POP. 15 INF. POP. 15				
DOUG FIR-L DOUG FIR-T WHEMLOCK GR FIR-T TOTAL  CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-T WHEMLOCK GR FIR-T TOTAL  CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-L DOUG FIR-L TOUG FIR-T WHEMLOCK GR FIR-T TOTAL  CL 68.1 SD: 1.0 DOUG FIR-T OTAL  CL 68.1 SD: 1.0 DOUG FIR-T TOTAL	-T	25.4 58.0 47.5 51.8 70.2 COEFF VAR.% 18.3 54.4 50.1 40.7 64.0 COEFF VAR.% 271.1 69.5 293.3 320.1 68.8 COEFF VAR.%	12.6 5.4 21.2 29.6 6.2  S.E.% 9.1 5.1 22.3 23.3 5.6  S.E.% 53.1 13.6 57.5 62.7 13.5  S.E.% 51.2	I	1,730 578 147 327 601 SAMPL OW 351 124 36 82 128 TREES/ OW 0 69 4 1 80 BASAL OW 4	1,980 611 187 465 640 E TREE AVG 386 130 46 107 136 ACRE AVG 1 80 9 3 9 3 92 AREA/A	2,230 645 226 603 680 S - CF HIGH 421 137 57 132 143  HIGH 2 91 14 4 105 CRE HIGH 11	#	197 OF TREES 5  163 OF PLOTS 5	49 REO. 10  41 REQ. 10  49 REO.	22 INF. POP. 15 INF. POP. 15				
DOUG FIR-L DOUG FIR-T WHEMLOCK GR FIR-T TOTAL  CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-T WHEMLOCK GR FIR-T TOTAL  CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-L DOUG FIR-T WHEMLOCK GR FIR-T TOTAL  CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-T WHEMLOCK GR FIR-T TOTAL  CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-L DOUG FIR-L DOUG FIR-L	-T	25.4 58.0 47.5 51.8 70.2 COEFF VAR.% 18.3 54.4 50.1 40.7 64.0 COEFF VAR.% 271.1 69.5 293.3 320.1 68.8 COEFF VAR.%	12.6 5.4 21.2 29.6 6.2  S.E.% 9.1 5.1 22.3 23.3 5.6  S.E.% 53.1 13.6 57.5 62.7 13.5  S.E.% 51.2 9.3	I	1,730 578 147 327 601 SAMPL OW 351 124 36 82 128 TREES/ OW 0 69 4 1 80 BASAL OW 4 153	1,980 611 187 465 640 E TREE AVG 386 130 46 107 136 ACRE AVG 1 80 9 3 9 3 92 AREA/A	2,230 645 226 603 680  S - CF HIGH 421 137 57 132 143  HIGH 2 91 14 4 105  CRE HIGH 11 185	#	197 OF TREES 5  163 OF PLOTS 5	49 REO. 10  41 REQ. 10  49 REO.	22 INF. POP. 15 INF. POP. 15				
DOUG FIR-L DOUG FIR-T WHEMLOCK GR FIR-T TOTAL  CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-T WHEMLOCK GR FIR-T TOTAL  CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-L DOUG FIR-T WHEMLOCK GR FIR-T TOTAL  CL 68.1 SD: 1.0 DOUG FIR-T WHEMLOCK GR FIR-T TOTAL  CL 68.1 SD: 1.0 DOUG FIR-T WHEMLOCK GR FIR-T TOTAL  CL 68.1	-T	25.4 58.0 47.5 51.8 70.2 COEFF VAR.% 18.3 54.4 50.1 40.7 64.0 COEFF VAR.% 271.1 69.5 293.3 320.1 68.8 COEFF VAR.%	12.6 5.4 21.2 29.6 6.2  S.E.% 9.1 5.1 22.3 23.3 5.6  S.E.% 53.1 13.6 57.5 62.7 13.5  S.E.% 51.2 9.3 61.6	I	1,730 578 147 327 601 SAMPL .OW 351 124 36 82 128 TREES/ .OW 0 69 4 1 80 BASAL .OW 4 153 3	1,980 611 187 465 640 E TREE AVG 386 130 46 107 136 ACRE AVG 1 80 9 3 9 3 92 AREA/A AVG 7 169 9	2,230 645 226 603 680  S - CF HIGH 421 137 57 132 143  HIGH 2 91 14 4 105  CRE HIGH 11 185 14	#	197 OF TREES 5  163 OF PLOTS 5	49 REO. 10  41 REQ. 10  49 REO.	22 INF. POP. 15 INF. POP. 15				
DOUG FIR-L DOUG FIR-T WHEMLOCK GR FIR-T TOTAL  CL 68.1 SD: 1.0 DOUG FIR-T WHEMLOCK GR FIR-T TOTAL  CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-L DOUG FIR-T WHEMLOCK GR FIR-T TOTAL  CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-T WHEMLOCK GR FIR-T TOTAL  CL 68.1 SD: 1.0 DOUG FIR-T WHEMLOCK GR FIR-T WHEMLOCK GR FIR-T WHEMLOCK GR FIR-T	-T	25.4 58.0 47.5 51.8 70.2 COEFF VAR.% 18.3 54.4 50.1 40.7 64.0 COEFF VAR.% 271.1 69.5 293.3 320.1 68.8 COEFF VAR.% 261.0 47.5 314.1 307.8	12.6 5.4 21.2 29.6 6.2  S.E.% 9.1 5.1 22.3 23.3 5.6  S.E.% 53.1 13.6 57.5 62.7 13.5  S.E.% 51.2 9.3 61.6 60.3	I	1,730 578 147 327 601 SAMPL OW 351 124 36 82 128 TREES/ OW 0 69 4 1 80 BASAL OW 4 153 3 2	1,980 611 187 465 640 E TREE AVG 386 130 46 107 136 ACRE AVG 1 80 9 3 9 3 92 AREA/A AVG 7 169 9	2,230 645 226 603 680  S - CF HIGH 421 137 57 132 143  HIGH 2 91 14 4 105  CRE HIGH 11 185 14 10	#	197 OF TREES 5  163 OF PLOTS 5	49 REO. 10  41 REO. 10  49 REO. 10	22 INF. POP. 15 INF. POP. 15 INF. POP. 15				
DOUG FIR-L DOUG FIR-T WHEMLOCK GR FIR-T TOTAL  CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-T WHEMLOCK GR FIR-T TOTAL  CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-L DOUG FIR-T WHEMLOCK GR FIR-T TOTAL  CL 68.1 SD: 1.0 DOUG FIR-T WHEMLOCK GR FIR-T TOTAL  CL 68.1 SD: 1.0 DOUG FIR-T WHEMLOCK GR FIR-T TOTAL  TOTAL  TOTAL	-T	25.4 58.0 47.5 51.8 70.2 COEFF VAR.% 18.3 54.4 50.1 40.7 64.0 COEFF VAR.% 271.1 69.5 293.3 320.1 68.8 COEFF VAR.% 261.0 47.5 314.1 307.8 42.4	12.6 5.4 21.2 29.6 6.2  S.E.% 9.1 5.1 22.3 23.3 5.6  S.E.% 53.1 13.6 57.5 62.7 13.5  S.E.% 51.2 9.3 61.6	I	1,730 578 147 327 601 SAMPL OW 351 124 36 82 128 TREES/ OW 0 69 4 1 80 BASAL OW 4 153 3 2 175	1,980 611 187 465 640 E TREE AVG 386 130 46 107 136 ACRE AVG 1 80 9 3 92 AREA/A AVG 7 169 9 6 191	2,230 645 226 603 680  S - CF HIGH 421 137 57 132 143  HIGH 2 91 14 4 105  CRE HIGH 11 185 14	#	197 OF TREES 5  163 OF PLOTS 5  197 OF PLOTS 5	49 REO. 10  41 REQ. 10  49 REO. 10	22 INF. POP. 15 INF. POP. 15 22 INF. POP. 15				
DOUG FIR-L DOUG FIR-T WHEMLOCK GR FIR-T TOTAL  CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-T WHEMLOCK GR FIR-T TOTAL  CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-L DOUG FIR-T WHEMLOCK GR FIR-T TOTAL  CL 68.1 SD: 1.0 DOUG FIR-T WHEMLOCK GR FIR-T TOTAL  CL 68.1 SD: 1.0 CL 68.1 SD: 1.0 CL 68.1 SD: 1.0 CL 68.1	-T	25.4 58.0 47.5 51.8 70.2 COEFF VAR.% 18.3 54.4 50.1 40.7 64.0 COEFF VAR.% 271.1 69.5 293.3 320.1 68.8 COEFF VAR.% 261.0 47.5 314.1 307.8 42.4 COEFF	12.6 5.4 21.2 29.6 6.2  S.E.% 9.1 5.1 22.3 23.3 5.6  S.E.% 53.1 13.6 57.5 62.7 13.5  S.E.% 51.2 9.3 61.6 60.3 8.3	I	1,730 578 147 327 601 SAMPL OW 351 124 36 82 128 TREES/ OW 0 69 4 1 80 BASAL OW 4 153 3 2 175 NET BF	1,980 611 187 465 640 E TREE AVG 386 130 46 107 136 ACRE AVG 1 80 9 3 92 AREA/A AVG 7 169 9 6 191	2,230 645 226 603 680  S - CF HIGH 421 137 57 132 143  HIGH 2 91 14 4 105  CRE HIGH 11 185 14 10 207	#	197 OF TREES 5  163 OF PLOTS 5  197 OF PLOTS 5	49 REO. 10  41 REO. 10  49 REO. 10	22 INF. POP. 15 INF. POP. 15 8 INF. POP.				
DOUG FIR-L DOUG FIR-T WHEMLOCK GR FIR-T TOTAL  CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-T WHEMLOCK GR FIR-T TOTAL  CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-L DOUG FIR-T WHEMLOCK GR FIR-T TOTAL  CL 68.1 SD: 1.0 DOUG FIR-T WHEMLOCK GR FIR-T TOTAL  CL 68.1 SD: 1.0 CC 68.1 SD: 1.0 CC 68.1 SD: 1.0 CC 68.1 SD: 1.0 CC 68.1	-T	25.4 58.0 47.5 51.8 70.2 COEFF VAR.% 18.3 54.4 50.1 40.7 64.0 COEFF VAR.% 271.1 69.5 293.3 320.1 68.8 COEFF VAR.% 261.0 47.5 314.1 307.8 42.4 COEFF VAR.%	12.6 5.4 21.2 29.6 6.2  S.E.% 9.1 5.1 22.3 23.3 5.6  S.E.% 53.1 13.6 57.5 62.7 13.5  S.E.% 51.2 9.3 61.6 60.3 8.3  S.E.%	I	1,730 578 147 327 601 SAMPL OW 351 124 36 82 128 TREES/ OW 0 69 4 1 80 BASAL OW 4 153 3 2 175 NET BF	1,980 611 187 465 640 E TREE AVG 386 130 46 107 136 ACRE AVG 1 80 9 3 92 AREA/A AVG 7 169 9 6 191 VACRE AVG	2,230 645 226 603 680  S - CF HIGH 421 137 57 132 143  HIGH 2 91 14 4 105  CRE HIGH 11 185 14 10 207	#	197 OF TREES 5  163 OF PLOTS 5  197 OF PLOTS 5	49 REO. 10  41 REO. 10  49 REO. 10	INF. POP.  18  INF. POP.  15  22  INF. POP.  15				
DOUG FIR-L DOUG FIR-T WHEMLOCK GR FIR-T TOTAL  CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-T WHEMLOCK GR FIR-T TOTAL  CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-L DOUG FIR-L DOUG FIR-T WHEMLOCK GR FIR-T TOTAL  CL 68.1 SD: 1.0 DOUG FIR-L CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-T WHEMLOCK GR FIR-T TOTAL  CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-T WHEMLOCK GR FIR-T TOTAL  CL 68.1 SD: 1.0 DOUG FIR-L	-T	25.4 58.0 47.5 51.8 70.2 COEFF VAR.% 18.3 54.4 50.1 40.7 64.0 COEFF VAR.% 271.1 69.5 293.3 320.1 68.8 COEFF VAR.% 261.0 47.5 314.1 307.8 42.4 COEFF VAR.%	12.6 5.4 21.2 29.6 6.2  S.E.% 9.1 5.1 22.3 23.3 5.6  S.E.% 53.1 13.6 57.5 62.7 13.5  S.E.% 51.2 9.3 61.6 60.3 8.3  S.E.% 48.9	I	1,730 578 147 327 601 SAMPL OW 351 124 36 82 128 TREES/ OW 0 69 4 1 80 BASAL OW 4 153 3 2 175 NET BF	1,980 611 187 465 640 E TREE AVG 386 130 46 107 136 ACRE AVG 1 80 9 3 92 AREA/A AVG 7 169 9 6 191 VACRE AVG	2,230 645 226 603 680  S - CF HIGH 421 137 57 132 143  HIGH 2 91 14 4 105  CRE HIGH 11 185 14 10 207	#	197 OF TREES 5  163 OF PLOTS 5  197 OF PLOTS 5	49 REO. 10  41 REO. 10  49 REO. 10	22 INF. POP. 15 INF. POP. 15 8 INF. POP.				
DOUG FIR-L DOUG FIR-T WHEMLOCK GR FIR-T TOTAL  CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-T WHEMLOCK GR FIR-T TOTAL  CL 68.1 SD: 1.0 DOUG FIR-L DOUG FIR-L DOUG FIR-T WHEMLOCK GR FIR-T TOTAL  CL 68.1 SD: 1.0 DOUG FIR-T WHEMLOCK GR FIR-T TOTAL  CL 68.1 SD: 1.0 DOUG FIR-T WHEMLOCK GR FIR-T TOTAL  CL 68.1 SD: 1.0  CL 68.1 SD: 1.0  CL 68.1 SD: 1.0	-T	25.4 58.0 47.5 51.8 70.2 COEFF VAR.% 18.3 54.4 50.1 40.7 64.0 COEFF VAR.% 271.1 69.5 293.3 320.1 68.8 COEFF VAR.% 261.0 47.5 314.1 307.8 42.4 COEFF VAR.%	12.6 5.4 21.2 29.6 6.2  S.E.% 9.1 5.1 22.3 23.3 5.6  S.E.% 53.1 13.6 57.5 62.7 13.5  S.E.% 51.2 9.3 61.6 60.3 8.3  S.E.%	I	1,730 578 147 327 601 SAMPL OW 351 124 36 82 128 TREES/ OW 0 69 4 1 80 BASAL OW 4 153 3 2 175 NET BF	1,980 611 187 465 640 E TREE AVG 386 130 46 107 136 ACRE AVG 1 80 9 3 92 AREA/A AVG 7 169 9 6 191 VACRE AVG	2,230 645 226 603 680  S - CF HIGH 421 137 57 132 143  HIGH 2 91 14 4 105  CRE HIGH 11 185 14 10 207	#	197 OF TREES 5  163 OF PLOTS 5  197 OF PLOTS 5	49 REO. 10  41 REO. 10  49 REO. 10	22 INF. POP. 15 INF. POP. 15 8 INF. POP.				

TC PS	FATS				PROJECT PROJECT		ISTICS LSBOOT			PAGE DATE	<b>2</b> 9/19/2011
TWP	RGE	SC	TRACT	TYI	'E	A	CRES	PLOTS	TREES	CuFt	BdFt
01N	06	08	1	MC			104.00	27	129	S	W
CL	68.1		COEFF		NET I	BF/ACRE	•		# OF PLOT	S REQ.	INF. POP.
SD:	1.00		VAR.	S.E.%	LOW	AVG	HIGH		5	10	15
TOT	AL		46.6	9.1	34,514	37,982	41,449		90	23	10
CL	68.1		COEFF	•	NET (	CUFT FT/	ACRE		# OF PLOTS I	REQ.	INF. POP.
SD:	1.0		VAR.%	S.E.%	LOW	AVG	HIGH		5	10	15
DOU	G FIR-L		255.1	50.0	186	372	558				
DOU	G FIR-T		50.4	9.9	6,540	7,256	7,972				
WHE	MLOCK	-T	328.7	64.4	122	344	565				
GR F	IR-T		302.4	59.3	97	239	381				
TOT	AL		44.6	8.8	7,492	8,210	8,929		83	21	9

TC	PSPC	STGR		$\mathbf{S}_{\mathbf{l}}$	pecies,	Sort G	rade - Boar	d Fo	ot Vo	olum	es (P	rojec	t)							
T01	IN R	06W S08	В ТуМС	. 1	04.00			DVLSBOOT 104.00								Page Date Time	9/	1 19/20 :26:1	11	
Spp		So Gr rt ad	% Net BdFt	Bd. Fi	t. per Acre Gross	Net	Total Net MBF		og Sc	Net Boale Dia		oot Volu	ume Log L 21-30		26.00	3	Avera Dia In	<u> </u>		Logs Per /Acre
DF DF DF	T T T T	CU 2M 3M 4M	64 30 6	1.2	22,067 10,140 1,746	21,804 10,130 1,746	2,268 1,053 182	13	87	51 12 3	49	6	7 2 40	7 4 10	79 94 31	19 34 39		348 111	0.00 2.01 0.68 0.37	6.0 62.7 91.5 51.3
DF	Tota L L L	2M 3M 4M	55 43 2	.8	33,953 1,046 830 22	33,679 1,046 830 22	3,503 109 86 2	39	31 9 61	37	32 100 80	5	7	6	81 100 100 100	34 40 40 38		1176 511	1.01 5.01 2.77 0.83	211.5 .9 1.6 .4
WH WH	T	3M 4M	71 29		1,897 1,001 393 1,394	1,897 1,001 393 1,394	197 104 41 145	23 7	5 66 77 69	34	90	12	23		100 100 64 90	40 40 32 36	9 6 8	119 46	0.74 0.34 0.56	2.9 8.4 8.5
GF GF GF	T T T	2M 3M 4M	36 59 5	4.8	390 608 43	371 597 43	39 62 4	8	38 39	100 34 61	21	100	34	27	100 39	40 34 18	14 10 8	283 142 35	1.62 1.02 0.48	1.3 4.2 1.2
GF Total	Tota ls	ais	3	0.8	38,286	1,011 37,982	3,950	5 1	30	59 35	33	5	7	16	82	32	10		1.11	238.1

TC PSTND	SUM		Stand Ta	ble Summary	Page Date:	1 9/19/2011
T01N R06W	S08 TyMC	104.00	Project	DVLSBOOT	Time:	8:26:14AM
			Acres	104.00	Grown Year:	

							Acres		104.0	0			Grown Yea	r:	
S Spc T	DBH	Sample Trees		Tot Av Ht	Trees/ Acre	<b>BA/</b> 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
DFT	10	3	88	146	8.149	4.44	13.58	11.8	56.0	4.58	161	761	476	167	79
DFT	11	2	88	129	4.490	2.96	11.22	10.0	48.0	3.19	112	539	332	116	56
DFT	12	2	87	151	3.773	2.96	7.55	16.2	75.0	3,48	122	566	362	127	59
DFT	13	3	88	107	4.822	4.44	9.64	15.8	70.0	4.35	153	675	453	159	70
DFT	14	1	88	150	1.386	1.48	4.16	16.7	80.0	1.98	70	333	206	72	35
DFT	15	4	88	115	4.829	5.93	8.45	24.3	110.0	5.86	206	930	610	214	97
DFT	16	7	88	124	7.427	10.37	21.22	19.7	90.5	11.93	419	1,920	1,241	435	200
DF T	17	3	88	- 1	2.820	4.44	8.46	21.1	90.0	5.08	178	761	528	185	79
DF T	18	2	89	139	1.677	2.96	5.03	27.4	128.3	3.92	138	646	408	143	67
DFT	19	7	89	126	5.267	10.37	15.05	29.5	133.5	12.66	444	2,009	1,317	462	209
DFT	20	4	84	112	2.716	5.93	4.75	33.4	140.0	4.53	159	665	471	165	69
DFT	21	4	89	147	2,464	5.93	8.01	37.4	181.5	8.54	300	1,454	888	312	151
DFT	22	8	87	129	4.490	11.85	14.03	37.8	173.2	15.13	531	2,430	1,574	552	253
DFT	23	11	87	124	5.648	16.30	15.40	44.4	197.0	19.48	684	3,035	2,026	711	316
DFT	24	9	87	134	4.244	13.33	11.79	52,5	235.6	17.65	619	2,778	1,835	644	289
DFT	25	12	88	128	5.215	17.78	14.34	52.3	238.2	21.36	749	3,416	2,221	779	355
DFT	26	7	87	134	2.813	10.37	9.64	49.2	241.7	13.53	475	2,331	1,407	494	242
DFT	27	3	88	131	1.118	4.44	3.73	55.9	272.0	5.93	208	1,013	617	217	105
DFT	28	3	86		1.039	4.44	3.12	65.7	310.0	5.84	205	967	608	213	101
DFT	29	4	86	134	1.292	5.93	3.88	72.6	343.3	8.02	282	1,331	835	293	138
DFT	30	5	88	133	1.509	7.41	4.53	77.4	380.7	9.98	350	1,723	1,038	364	179
DFT	31	3	89	125	.848	4.44	2.54	79.3	384.4	5.75	202	978	598	210	102
DFT	32	4	88	138	1.061	5.93	3.18	87.2	440.0	7.91	278	1,401	823	289	146
DFT	33	2	84	139	.499	2.96	1.50	92.4	440.0	3.94	138	658	410	144	68
DF T	34	1	85	141	.235	1.48	.70	106.7	513.3	2,14	75	362	223	78	38
DF T	Totals	114	88	130	79.829	168.89	205.50	35.3	163.9	206.79	7,256	33,679	21,506	7,546	3,503
DF L	35	1	82	135	.222	1.48	.67	101.9	466.7	1.93	68	310	201	70	32
DF L	36	2	85	144	.419	2.96	1.26	118.7	601.7	4,25	149	757	442	155	79
DFL	39	1	88	148	.179	1.48	.54	145.2	790.0	2.22	78	423	231	81	44
DF L	41	1	89	141	.162	1.48	.48	158.6	840.0	2,19	77	407	228	80	42
DFL	Totals	5	86	142	.981	7.41	2.94	126.3	644.7	10.59	372	1,897	1,102	387	197
WHT	11	2	85	127	4.490	2.96	6.73	14.4	56.7	3.10	97	382	322	101	40
WHT	13	1		124	1.607	1.48	3.21	20.0	90.0	2.06	64	289	214	67	
WHT	15	1	86	112	1.207	1.48	3.62	16.6	70.0	1.92	60	254	200	62	26
WHT	18	2	85	122	1.677	2.96	3.35	36.5	140.0	3.91	122	469	407	127	49
WHT	Totals	6	85	123	8.981	8.89	16.92	20.3	82,4	10.99	344	1,394	1,143	357	145
GF T	18	2	86	110	1.677	2.96	4,19	28.4	114.0	2.62	119	478	272	124	50
GF T	24	1	86	118	.472	1.48	1.41	45.0	176.7	1.40	64	250	146	66	26
GF T	27	1	81	132	.373	1.48	1.12	50.6	253.3	1.24	57	283	129	59	29
GF T	Totals	4	85	114	2.521	5.93	6.72	35.6	150.3	5.26	239	1,011	547	249	105
Totals		129	87	129	92.311	191.11	232.10	35.4	163.6	233,64	8,210	37,982	24,299	8,539	3,950

TC PLOGSTVB

Log Stock Table - MBF

T01N R06W S08 TyMC 104.00 Project: Acres

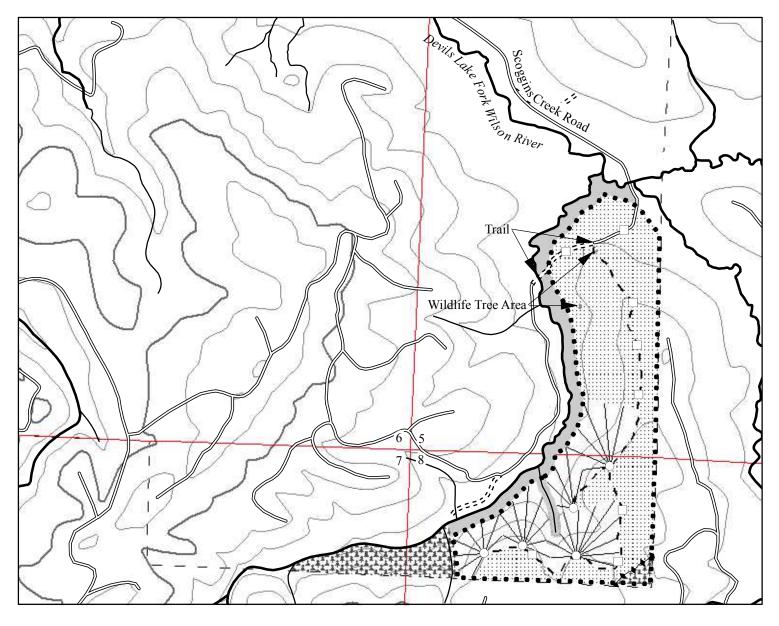
DVLSBOOT 104.00

Page Time

1 Date 9/19/2011 8:26:15AM

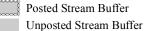
	s	So C-	1.00	C	Dof.	<b>76.</b> Y	0/			T-4 ¥7-*	Y.	G. Y	- D'		·		. 01.	
Spp	T	So Gr rt de	Log Len	Gross MBF	Def %	Net MBF	% Spc	2-3	4-5	6-7	ime by 8-9	Scalin 10-11		14-15		20-23	24-29	30-39 40+
OF	Т		16			51	1.5					10 11	12 13	17	10	12	13	30 35 401
DF	Т	2M			4.1	91							38	30	23			
DF	T	2M				12	l						12					
DF	Т	2M			6.5	99	l						35	7	39		19	-
DF	T	2M	28	17	45.9	9	.3								9			
DF	T	2M	30	43		43	1.2						16	28				
DF	Т	2M	32	147		146	4.2						8	45	73	19		
DF	T	2M	34	18		18	.5								18			
DF	Т	2M	36	6		6	.2						6					
DF	Т	2M	40	1,799		1,791	51.1						176	365	864	362	25	
DF	T	3M	[ 24]	6		6	.2						6					
DF	Т	3M				16						16						
DF	Т	3M				. 38				14		7	17					
DF	Т	3M				27	.8			27								
DF	Т	3M		5		5	.1			5						<u> </u>		
DF	T	3M	[ 40	962		961	27.4			191	302	355	65	25	23			
DF	T	4M	12	10		10	.3		3	1					5			
DF	Т	4M	14	7		7	.2		2	4								
DF	T	4M				7				7								
DF	Т	4M	18	5		. 5				5								
DF	Т	4M	20	6		6	.2			6								
DF	T	4M	22	4		4	.1			4								
DF	Т	4M	24	12		12	.3			12								
DF	Т	4M	26	20		20	.6		3	17								
DF	Т	4M	27	5		5	.1					5						
DF	Т	4M	28	19		19	.5		1	18								
DF	T	4M	30	14		14	.4			14								
DF	T	4M	32	14		14	.4			14								
DF	Т	4M	34	4		4	.1			4								
DF	Т	4M	36	11		11	.3		2	9								
DF	Т	4M	38	8		8	.2			8								
DF	Т	4M	40	38		38	1.1		11	12	10	5						
DF		Totals	3	3,531		3,503	88.7		24	370	312	387	379	516	1065	393	56	
DF	L	2M	40	109		109	55.1									27	54 -	28
DF	L	3M	. 40	86		86	43.7				2	6			19	37	22	
DF	L	4M	36	I		1	.7			1								

TC <sup>]</sup>	PLO	GSTVB					Log	Stock '	Table	- MB	F							
T01	T01N R06W S08 TyMC 104.00							Project: DVLSBOOT Acres 104.00						Page 2 Date 9/19/2011 Time 8:26:15AM				
	s	So Gr	Log	Gross	Def	Net	%		Net Volume by Scaling Diameter in Inches									
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+
DF	L	4N	1 40	1		1	.4		1									
DF		Total	s	197		197	5.0		1	1	2	6			19	64	76	28
WH	Т	3N	f 40	104		104	71.8			22	28	19	35					
WH .	Т	4N	1 20	5		5	3.5				5						••••	
WH	T	4N	1 22	3		3	1.7		3									
WH	Т	4N	1 30	7		7	4.8		7									
WH	Т	4N	1 40	26		26	18.2			26								
WH		Total	S	145		145	3.7		10	49	33	19	35					
GF	Ţ	2N	1 40	41	4.8	39	36.7						21		18			
GF	Т	3N	1 24	14	8.3	13	12.2								13			
GF	T	3N	1 28	7		7	6.5						7					
GF	Τ	3N	1 30	1		1	1.4		1									
GF	T	3N	1 34	17		17	15.8		3			13						
GF	T	3N	1 40	24		24	23.2				10			14				
GF	Т	4N	1 12	3		3	2.6						3					
GF	Т	4N	1 20	2		2	1.7			2								
GF		Total	s	108	2.9	105	2.7		5	2	10	13	31	14	30			
Total		All Spec	ies	3,982		3,950	100.0		39	422	357	425	445	530	1114	457	133	28



#### **LEGEND**

- Timber Sale Boundary
- Area Boundary
- Surfaced Road
- = : Unsurfaced Road
- New Construction
- Type F Stream
- Type N Stream



Green Tree Retention Area Wildlife Tree Area

Cable Landing

Tractor Landing

Cable Yarding Area

Tractor Logging Area

400 Foot Contour Band

80 Foot Contour Band

**ODF** Ownership Boundary

Sections

#### **LOGGING PLAN**

OF TIMBER SALE CONTRACT NO. 341-12-10 DEVIL'S BOOT PORTIONS OF SECTIONS 5,7 & 8, T1N, R5W, W.M TILLAMOOK COUNTY, OREGON



Forest Grove District GIS September, 2011

This product is for informational use and may not be suitable for legal, engineering, or surveying purposes.

APPROXIMAI	E NET ACKES
CABLE	TRACTOR

67

37

1:12,000 1 inch = 1,000 feet

1,000 1,000 Feet