



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal  
Pothole  
Sale 341-11-41

District: Tillamook

Date: September 07, 2010

---

**cost summary**

	<b>Conifer</b>	<b>Hardwood</b>	<b>Total</b>
<b>Gross Timber Sale Value</b>	\$642,020.10	\$24,745.05	\$666,765.15
		<b>Project Work:</b>	\$(90,850.00)
		<b>Advertised Value:</b>	\$575,915.15



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal  
 Pothole  
 Sale 341-11-41

District: Tillamook

Date: September 07, 2010

**timber description**

**Location:** Portions of Sections 14, 22, 23, 26, and 27, T2S, R7W, W.M., Tillamook County, Oregon.

**Stand Stocking:** 20%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	15	0	95
Alder (Red)	14	0	90

Volume by Grade	2S	3S	4S	Total
Douglas - Fir	728	2,751	1,231	4,710
Alder (Red)	0	53	46	99
Total	728	2,804	1,277	4,809



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal  
Pothole  
Sale 341-11-41

District: Tillamook

Date: September 07, 2010

comments: Pond Values Used: 2nd Quarter Calendar Year 2010.

Western redcedar and Other Cedars Stumpage Price = Pond Value  
minus Logging Cost  
\$570/MBF = \$900/MBF - \$330/MBF

SCALING COST ALLOWANCE = \$5.00/MBF

FUEL COST ALLOWANCE = \$3.00/Gallon

HAULING COST ALLOWANCE

Hauling costs equivalent to \$700 daily truck cost.

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

Brand and Paint: \$2/MBF x 4,810 MBF = \$9,620

TOTAL Other Costs (with Profit and Risk to be added) = \$9,620

Other Costs (No Profit & Risk added):

Non-project Roads:

Area 1: 785 feet x \$200/station = \$1,570

Surfacing non-project road junctions: 1 station x 50 yards pit  
run/sta. x \$6.00/yard = \$300

Area 4 1,500 feet x \$200/station = \$3,000

Surfacing non-project road junctions: 1 stations x 50 yards pit  
run/sta. x \$6/yard = \$300

Optional rocking of existing dirt spurs in Area 3:

Spur 1 28 stations (120cy crushed rock x \$8.40/yd) = \$1,008

Spur 2 15 stations (50cy crushed rock x \$8.40/yd) = \$420

Slash Piling and Sorting: \$2.50/acre x 163 acres = \$408

Tank trap installation on un-surfaced road 2 x \$75 = \$150

Road vacating on un-surfaced roads: 2 roads @ \$200/ road = \$400

Road vacating shall include water-bars and slashing of all dirt  
roads. Tank traps where dirt roads meet rocked roads.

OHV ATV filter: \$75 x 6 filters = \$450

Snag creation:

Area 1: 132 trees >15' DBH @ \$10/tree = \$1,320

Area 3: 46 trees > 15' DBH @ \$10/tree = \$460

Trask Public Safety Road Fee: \$20/MBF x 4810 MBF = \$96,200

TOTAL Other Costs (No Profit & Risk added) = \$105,986

ROAD MAINTENANCE

•Spot rocking (500cy x \$6.00/cy)/4810MMBF = \$0.62/MBF

•Interim Grading(Toll Road): \$250/mile x 8.5 miles/ 4810MBF =  
\$0.44/MBF



Timber Sale Appraisal  
Pothole  
Sale 341-11-41

"STEWARDSHIP IN FORESTRY"

**District: Tillamook**

**Date: September 07, 2010**

- 
- Final Grading (Toll Road):  $\$500/\text{mile} \times 8.5 \text{ miles} / 4810 \text{ MBF} = \$0.88/\text{MBF}$
  - Final Grading (Murphy Camp, Steampot, East Fork Trask):  
 $\$500/\text{mile} \times 8.0 \text{ miles} / 4810 \text{ MBF} = \$0.83/\text{MBF}$
  - Compaction (Toll Road) (455 stations  $\times$   $\$18/\text{station}$ ) + ( $\$111$  move-in)/4810MBF =  $\$1.73/\text{MBF}$ .
  - Compaction (Murphy Camp, Steampot, East Fork Trask):  
(427 stations  $\times$   $\$18/\text{station}$ ) = ( $\$ 111$ move-in)/4810 =  $\$1.62/\text{MBF}$

Final grading and compaction includes all roads on haul route.

TOTAL ROAD MAINTENANCE COST: \$ 6.12 / MBF



"STEWARDSHIP IN FORESTRY"

# Timber Sale Appraisal Pothole Sale 341-11-41

District: Tillamook

Date: September 07, 2010

## logging conditions

**combination#: 1** Douglas - Fir 26.72%  
Alder (Red) 9.33%

**yarding distance:** Short (400 ft) **downhill yarding:** No  
**logging system:** Cable: Small Tower <=40 **Process:** Stroke Delimber

**tree size:** Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF  
**loads / day:** 6.0 **bd. ft / load:** 2,500  
**cost / mbf:** \$188.95

**machines:** Log Loader (A)  
Stroke Delimber (A)  
Tower Yarder (Small)

**combination#: 2** Douglas - Fir 19.67%  
Alder (Red) 23.67%

**yarding distance:** Long (1,500 ft) **downhill yarding:** No  
**logging system:** Cable: Small Tower <=40 **Process:** Stroke Delimber

**tree size:** Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF  
**loads / day:** 4.0 **bd. ft / load:** 2,500  
**cost / mbf:** \$283.42

**machines:** Log Loader (A)  
Stroke Delimber (A)  
Tower Yarder (Small)

**combination#: 3** Douglas - Fir 23.89%  
Alder (Red) 26.67%

**yarding distance:** Medium (800 ft) **downhill yarding:** No  
**logging system:** Shovel **Process:** Stroke Delimber

**tree size:** Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF  
**loads / day:** 7.0 **bd. ft / load:** 2,500  
**cost / mbf:** \$82.18

**machines:** Stroke Delimber (B)

**combination#: 4** Douglas - Fir 29.71%  
Alder (Red) 40.33%

**yarding distance:** Short (400 ft) **downhill yarding:** No  
**logging system:** Shovel **Process:** Stroke Delimber

**tree size:** Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF  
**loads / day:** 8.0 **bd. ft / load:** 2,500  
**cost / mbf:** \$71.91

**machines:** Stroke Delimber (B)



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal  
 Pothole  
 Sale 341-11-41

District: Tillamook

Date: September 07, 2010

**logging costs**

Operating Seasons:	1.00	Profit Risk:	10.00%
Project Costs:	\$90,850.00	Other Costs (P/R):	\$9,620.00
Slash Disposal:	\$0.00	Other Costs:	\$105,986.00

**Miles of Road**

Road Maintenance: \$6.12

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	2.9
Alder (Red)	\$0.00	3.0	2.3



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal  
 Pothole  
 Sale 341-11-41

District: Tillamook

Date: September 07, 2010

**logging costs breakdown**

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
<b>Douglas - Fir</b>									
\$147.25	\$6.43	\$0.91	\$115.21	\$2.00	\$27.18	\$0.00	\$5.00	\$22.04	\$326.02
<b>Alder (Red)</b>									
\$135.63	\$6.73	\$0.91	\$101.45	\$2.00	\$24.67	\$0.00	\$5.00	\$22.04	\$298.43

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$462.33	\$136.31	\$0.00
Alder (Red)	\$0.00	\$548.38	\$249.95	\$0.00



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal  
Pothole  
Sale 341-11-41

District: Tillamook

Date: September 07, 2010

**summary**

**Amortized**

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

**Unamortized**

Specie	MBF	Value	Total
Douglas - Fir	4,710	\$136.31	\$642,020.10
Alder (Red)	99	\$249.95	\$24,745.05

**Gross Timber Sale Value**

Recovery: \$666,765.15

Prepared by: Nick Stumpf

Phone: 503-842-2545





STEWARDSHIP IN FORESTRY

## Pothole

### Volume Summary

Area 1-Retention Cut				
66 acres				
SPECIES	Gross MBF/ Acre	Gross MBF	Hidden D&B	Net Vol* MBF
Douglas-fir	13.1	866	5%	823
TOTAL	13.1	866		823

Areas 2-Modified Clear-cut				
82 acres				
SPECIES	Gross MBF/ Acre	Gross MBF	Hidden D&B	Net Vol* MBF
Douglas-fir	13.9	1140	5%	1083
TOTAL	13.9	1140		1083

Areas 3-Retention cut				
25 acres				
SPECIES	Gross MBF/ Acre	Gross MBF	Hidden D&B	Net Vol* MBF
Douglas-fir	9.6	241	5%	229
TOTAL	9.6	241		229

Areas 4-Modified Clear-cut				
94 acres				
SPECIES	Gross MBF/ Acre	Gross MBF	Hidden D&B	Net Vol* MBF
Douglas-fir	14.6	1373	5%	1304
Alder	0.4	37	10%	34
TOTAL	15.0	1410		1338

Areas 5-Modified Clear-cut				
89 acres				
SPECIES	Gross MBF/ Acre	Gross MBF	Hidden D&B	Net Vol* MBF
Douglas-fir	15.0	1337	5%	1270
Alder	0.8	74	10%	67
TOTAL	15.9	1411		1337



STEWARDSHIP IN FORESTRY™

## Pothole

### Volume Summary

---

TOTAL SALE VOLUME		356	acres
SPECIES	Gross Vol. (MBF)	Net Vol. (MBF)*	
Douglas-fir	4957	4709	
Red Alder	111	101	
<b>TOTAL</b>	<b>5068</b>	<b>4810</b>	

\* includes hidden and visible defect deducted during the cruise

## SUMMARY OF CONSTRUCTION COST

Sale:	<b>Pothole</b>			Road:	<b>A to B</b>			
Construction -	0+00 0.00	stations miles	Improvement -	47+40 0.90	stations miles	Reconstruction -	0+00 0.00	stations miles
<b>IMPROVEMENT: EXCAVATION -</b>								
Ditch & Endhaul & Widening				25.00	sta. @	\$50.00	per sta. =	\$1,250.00
							<b>TOTAL EXCAVATION</b>	<b>\$1,250.00</b>
<b>ROCK</b>								
0+00 to Junction Rock	47+40 47+40		570 cy. of 30 cy. of	Crushed Crushed	@ @	\$7.59 per c.y.= \$7.59 per c.y.=	\$4,326.30 \$227.70	
							<b>TOTAL ROCK</b>	<b>\$4,554.00</b>
<b>SPECIAL PROJECTS</b>								
Grade and shape road - Grass seed and fertilize -				47.40 0.20	stations @ acres @	\$15.50 \$220.00	per station per acre	\$734.70 \$44.00
							<b>TOTAL SPECIAL PROJECTS</b>	<b>\$778.70</b>
<b>GRAND TOTAL</b>								<b>\$6,582.70</b>

## SUMMARY OF CONSTRUCTION COST

Sale: **Pothole** Road: **C to D**

Construction -	11+00	stations	Improvement -	7+50	stations	Reconstruction -	0+00	stations
	0.21	miles		0.14	miles		0.00	miles

**CONSTRUCTION:** CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

Station	to	Station	Avg. Sideslope	To W.A. (mi.)	Outslope/Ditch	Cost per Station	=	
7+50		11+40	30%		Outslope	\$191	=	\$744.90
11+40		14+50	55%		Outslope	\$689	=	\$2,135.90
14+50		18+50	30%		Outslope	\$191	=	\$764.00
<b>TOTAL</b>								<b>\$3,644.80</b>

**IMPROVEMENT:** CLEARING AND GRUBBING -  
Scattering

	0.340	acres @	\$980.00	per acre =	\$333.20	
<b>TOTAL CLEARING AND GRUBBING</b>						<b>\$333.20</b>

**IMPROVEMENT:** EXCAVATION -  
Road Earthwork

	7.50	sta. @	\$100.00	per sta. =	\$750.00	
<b>TOTAL EXCAVATION</b>						<b>\$750.00</b>

**CULVERTS - MATERIALS & INSTALLATION**

<u>Culverts</u>	40	LF of 18"	\$700.00		0	LF of 24"	\$0.00	
			\$700.00				\$0.00	
<u>Culvert Stakes &amp; Markers</u>								
1 markers			\$8.00					
			\$8.00					
<b>TOTAL CULVERTS</b>								<b>\$708.00</b>

**ROCK**

0+00 to	18+50	1,040	cy. of	Crushed	@	\$8.40 per c.y.=	\$8,736.00	
Culvert Backfill	0+00	10	cy. of	Crushed	@	\$6.25 per c.y.=	\$62.50	
Landing Rock	18+50	100	cy. of	Crushed	@	\$8.40 per c.y.=	\$840.00	
Junction Rock	0+00	30	cy. of	Crushed	@	\$8.00 per c.y.=	\$240.00	
<b>TOTAL ROCK</b>								<b>\$9,878.50</b>

**SPECIAL PROJECTS**

Drill and Shoot & EH - 11+40 - 14+50	500.00	CY	\$5.80	Per/CY	\$2,900.00	
Grade and shape road -	18.50	stations @	\$15.50	per station	\$286.75	
Roll subgrade w/ vibratory roller prior to rocking -	18.50	stations @	\$13.20	per station	\$244.20	
Remove large stumps -	1.00	lump sum @	\$300.00		\$300.00	
Grass seed and fertilize -	0.40	acres @	\$220.00	per acre	\$88.00	
<b>TOTAL SPECIAL PROJECTS</b>						<b>\$3,818.95</b>

**GRAND TOTAL** **\$19,133.45**

## SUMMARY OF CONSTRUCTION COST

Sale: **Pothole** Road: **E to F**

Construction -	0+00	stations	Improvement -	203+60	stations	Reconstruction -	0+00	stations
	0.00	miles		3.86	miles		0.00	miles

**IMPROVEMENT: EXCAVATION -**

Ditch, Endhaul & drainage improvements	142.00	sta. @	\$60.00	per sta. =	\$8,520.00
<b>TOTAL EXCAVATION</b>					<b>\$8,520.00</b>

**CULVERTS - MATERIALS & INSTALLATION**

<u>Culverts</u>					
	64	LF of 18"	\$1,120.00		
			\$1,120.00		
<u>Culvert Stakes &amp; Markers</u>					
	2	markers	\$16.00		
			\$16.00		
<b>TOTAL CULVERTS</b>					<b>\$1,136.00</b>

**ROCK**

Culvert Backfill					
	20	cy. of	Crushed	@ \$8.96 per c.y.=	\$179.20
Spot Rock	530	cy. of	Crushed	@ \$10.71 per c.y.=	\$5,676.30
<b>TOTAL ROCK</b>					<b>\$5,855.50</b>

**SPECIAL PROJECTS**

Grade and shape road -	203.60	stations @	\$15.50	per station	\$3,155.80
Roll subgrade w/ vibratory roller prior to rocking -	203.60	stations @	\$13.20	per station	\$2,687.52
Grass seed and fertilize -	1.00	acres @	\$220.00	per acre	\$220.00
Mulching -	0.300	acres @	\$600.00	per acre	\$180.00
<b>TOTAL SPECIAL PROJECTS</b>					<b>\$6,243.32</b>

**GRAND TOTAL** **\$21,754.82**

## ROCK CRUSHING AND STOCKPILE CONSTRUCTION

Pit:	Toll		Location: NW 1/4, NE 1/4, Sec 16 T2S, R7W, W.M.
Sale:	<b>Pothole</b>		Road: <span style="float: right;">c.y.</span>
Swell:	1.40		Stockpile: <span style="float: right;">3000 c.y.</span>
Shrinkage:	1.16		Total Truck Loads: <span style="float: right;">3000 c.y.</span>
Drill Pct.:	100%		In Place Total: <span style="float: right; border: 1px solid black;">2143 c.y.</span>

Pit Development & Cleanup including Clearing and grubbing of Waste Area @ adjacent to pit, place overburden in Waste Area, spread and compact.				\$1,250.00	
Drill & Shoot:	\$2.50 /cu.yd.	x	2143 cu.yds.	=	\$5,357.50
Push Rock:	\$0.70 /cu.yd.	x	3000 cu.yds.	=	\$2,100.00
Load Crusher:	\$0.70 /cu.yd.	x	3000 cu.yds.	=	\$2,100.00
Crush Rock:	\$2.50 /cu.yd.	x	3000 cu.yds.	=	\$7,500.00
Load Dump Truck:	\$0.70 /cu.yd.	x	3000 cu.yds.	=	\$2,100.00
Oversize Reduction:	\$4.50 /cu.yd.	x	214 cu.yds.	=	\$963.00
			Subtotal		\$21,370.50

Move In/Set-up Crusher					\$3,200.00
Move In and set up Drill and Compressor	1	@	\$524.78	=	\$524.78
Move in Loader	1	@	\$629.33	=	\$629.33
Move in Excavator	1	@	\$838.84	=	\$838.84
Move in Trucks	4	@	\$171.54	=	\$686.16
Change Gradation			\$300.00		\$300.00
				Subtotal	\$6,179.11

Base Cost=	\$9.18	Per Cu.Yd.			TOTAL PRODUCTION COSTS	\$27,549.61
------------	--------	------------	--	--	------------------------	-------------

Road Segment	Haul Cost \$/cu.yd.	Proc Cost \$/cu.yd.	Base Cost. \$/cu.yd.	Cost \$/cu.yd.	Number Cu. Yds	ROCK COST
Point G Stockpile (Crushed)	3.12	1.20	9.18	13.50	3000	\$40,500.00
				Total C.Y.	3000	Sub Total
						\$40,500.00

	TOTAL ROCKING COSTS	\$40,500.00
--	---------------------	-------------

## STOCKPILE ROCK

Stockpiles:	Crushed	3'-0"	NE 1/4 SW 1/4 Section 9 T2S R7W W.M.
		Location:	NW 1/4, NE 1/4, Sec 16 T2S, R7W, W.M.
Sale:	<b>Pothole</b>	Road:	2330 c.y.
Swell:	1.40	Stockpile:	c.y.
Shrinkage:	1.16	Total Truck Loads:	2330 c.y.
Drill Pct.:	100%	In Place Total:	1664 c.y.

Load Dump Truck: \$0.70 /cu.yd. x 2330 cu.yds. = \$1,631.00  
Subtotal \$1,631.00

Move in Roller and Compactor	1	@	\$524.78	=	\$524.78
Move in Grader	1	@	\$150.87	=	\$150.87
Move in Loader	1	@	\$629.33	=	\$629.33
Move in Trucks	4	@	\$171.54	=	\$686.16
Move in Water Truck	1	@	\$201.64	=	\$201.64
Change Gradation					
			Subtotal		\$2,192.78

TOTAL PRODUCTION COSTS \$3,823.78

Base Cost= \$1.64 Per Cu.Yd.

Road Segment	Haul Cost \$/cu.yd.	Proc Cost \$/cu.yd.	Base Cost. \$/cu.yd.	Cost \$/cu.yd.	Number Cu. Yds	ROCK COST
A to B 0 4740 (Crushed)	3.50	2.45	1.64	7.59	570	\$4,326.30
A to B Junction Rock (Crushed)	3.50	2.45	1.64	7.59	30	\$227.70
C to D 0 1850 (Crushed)	4.31	2.45	1.64	8.40	1040	\$8,736.00
C to D Culvert Backfill (Crushed)	3.91	0.70	1.64	6.25	10	\$62.50
C to D Landing Rock (Crushed)	4.31	2.45	1.64	8.40	100	\$840.00
C to D Junction Rock (Crushed)	3.91	2.45	1.64	8.00	30	\$240.00
E to F Cuivert Backfill (Crushed)	6.62	0.70	1.64	8.96	20	\$179.20
E to F Spot Rock (Crushed)	6.62	2.45	1.64	10.71	530	\$5,676.30
				Total C.Y.	2330	Sub Total \$20,288.00

TOTAL ROCKING COSTS \$20,288.00



## PROJECT SUMMARY SHEET

Sale: Pothole

### CONSTRUCTION

Point	C to D	11+00	stations =	\$12,210.20
<b>SUBTOTAL CONSTRUCTION</b>				<b>\$12,210.20</b>

### IMPROVEMENT

Point	A to B	47+40	stations =	\$6,582.70
Point	C to D	7+50	stations =	\$6,923.25
Point	E to F	203+60	stations =	\$21,754.82
<b>SUBTOTAL IMPROVEMENT</b>				<b>\$35,260.77</b>

### SPECIAL PROJECTS

Stockpile				\$40,500.00
<b>SUBTOTAL SPECIAL PROJECTS</b>				<b>\$40,500.00</b>

### MOVE IN

\$2,879.03

**GRAND TOTAL**

**\$90,850.00**



## Move-In Calculations for Project Work not Involving Rocking/Pit Work

Sale: **Pothole**

LOWBOY HAUL (Round Trip)		
DIST. (mi)	ROADWAY	AVE SPEED (mph)
26.0	Pavement	30
12.0	Main Lines	7
3.0	Steep Grades	2

No.	EQUIPMENT DESCRIPTION	Move in Cost	Pilot Cars	Within Area Move (\$/mile)	Begin Mileage	End Mileage	Total Miles	Within Area Cost	Total Cost
1	Drill & Compressor	\$587.09		\$46.00	0.00	0.00	0	\$0.00	\$587.09
1	Excavators (Large)	\$858.78	1	\$44.80	0.00	0.00	0	\$0.00	\$858.78
1	Tractor (D8)	\$803.62	2	\$15.10	0.00	0.00	0	\$0.00	\$803.62
2	Dump Truck (10 cy +)	\$427.90		\$2.85	0.00	0.00	0	\$0.00	\$427.90
1	Water Truck (2500 Gal)	\$201.64		\$2.85	0.00	0.00	0	\$0.00	\$201.64

<b>TOTAL MOVE-IN COSTS:</b>	<b>\$2,879.03</b>
-----------------------------	-------------------

TC		TLOGSTVB		Log Stock Table - MBF					Project: POTHOLED											
T02S R07W S14 TPC										T02S R07W S14 TPC										
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page												
02S	07W	14	AREA 3	PC	25.00	5	25	1	Date	8/5/2010										
									Time	12:53:52PM										
Spp	T	S	So	Gr	Log	Gross	%	Net	%	Net Volume by Scaling Diameter in Inches										
										MBF	Def	MBF	Spc	2-3	4-5	6-7	8-9	10-11	12-13	14-15
DF		DO	3M	32		34	5.0	33	14.3				10	23						
DF		DO	3M	40		96	5.0	91	39.8			12	51	28						
DF		DO	4M	21		2	5.0	2	.7		2									
DF		DO	4M	28		15	5.0	15	6.4		15									
DF		DO	4M	30		4	5.0	4	1.6		4									
DF		DO	4M	31		10	5.0	9	4.1		9									
DF		DO	4M	32		12	5.0	12	5.1				12							
DF		DO	4M	33		16	5.0	15	6.7		15									
DF		DO	4M	37		24	5.0	23	9.9		23									
DF		DO	4M	40		27	5.0	26	11.3				26							
DF		Totals				241	5.0	229	61.6		67	12	98	51						
DL		DO	2M	40		13		13	8.9					13						
DL		DO	3M	32		11		11	7.7				11							
DL		DO	3M	40		84		84	58.9			3		39	14	27				
DL		DO	4M	21		2		2	1.1		2									
DL		DO	4M	26		3		3	2.4		3									
DL		DO	4M	28		2		2	1.5		2									
DL		DO	4M	33		3		3	2.2		3									
DL		DO	4M	36		3		3	2.0		3									
DL		DO	4M	38		7		7	4.6		7									
DL		DO	4M	40		14		14	9.5				14							
DL		PU	UT	26		2		2	1.1			2								
DL		Totals				142		142	38.4		20	5	14	50	27	27				
Total All Species						383	3.1	371	100.0		87	17	111	102	27	27				

TC		Stand Table Summary														
TSTNDSUM		Project POTHOLED														
T02S R07W S14 TPC											T02S R07W S14 TPC					
											Page: 1					
Twp	Rge	Sec	Tract		Type	Acres	Plots	Sample Trees			Date: 08/05/2011					
02S	07W	14	AREA 3		PC	25.00	5	25			Time: 1:01:55PM					
Spc	S T	Sample		Av		Trees/ Acres	BA/ Acres	Logs Acres	Average Log		Net Tons/ Acres	Net Cu.Ft. Acres	Net Bd.Ft. Acres	Totals		
		DBH	Trees	FF 16'	Hf Tot				Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF
DF		11	3	84	64	25.256	16.67	25.26	14.8	44.3	10.63	373	1,120	266	93	28
DF		12	2	84	68	14.148	11.11	21.22	12.8	44.3	7.74	272	941	194	68	24
DF		13	3	87	101	18.083	16.67	36.17	14.9	57.0	15.32	538	2,061	383	134	52
DF		14	1	87	100	5.197	5.56	10.39	18.0	71.3	5.32	187	741	133	47	19
DF		15	2	85	95	9.055	11.11	18.11	18.7	66.5	9.62	339	1,204	240	85	30
DF		16	3	84	98	11.938	16.67	23.88	22.3	83.9	15.20	533	2,004	380	133	50
DF		17	2	81	83	7.050	11.11	14.10	23.8	76.0	9.58	336	1,072	239	84	27
DF	Totals		16	85	83	90.727	88.90	149.12	17.3	61.3	73.41	2,577	9,142	1,835	644	229
DL		15	1	86	89	4.527	5.56	9.05	18.9	75.0	4.70	171	679	117	43	17
DL		16	1	86	105	3.979	5.56	7.96	24.2	95.0	5.30	193	756	132	48	19
DL		18	2	82	81	6.288	11.11	12.58	26.3	87.5	9.11	331	1,100	228	83	28
DL		19	2	85	108	5.644	11.11	11.29	32.8	112.5	10.19	370	1,270	255	93	32
DL		20	1	84	120	2.547	5.56	5.09	38.4	120.0	5.38	196	611	135	49	15
DL		22	1	84	113	2.105	5.56	4.21	49.7	175.0	5.76	209	737	144	52	18
DL		25	1	82	113	1.630	5.56	3.26	53.5	165.0	4.79	174	538	120	44	13
DL	Totals		9	84	100	26.720	50.00	53.44	30.8	106.5	45.23	1,644	5,691	1,131	411	142
Totals			25	85	87	117.447	138.90	202.56	20.8	73.2	118.65	4222	14,833	2,966	1,055	371

TC		TSTINDSUM		Stand Table Summary												
Project										POTHOLED						
T02S R07W S14 TMC										T02S R07W S14 TMC						
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page:								
02S	07W	14	AREA 5	MC	89.00	11	57	1								
								Date:	08/05/2010							
								Time:	11:16:26AM							
Spc	S T	Sample		Av	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals			
		DBH	Trees	FF 16'				Ht Tot	Net Cu.Ft.				Net Bd.Ft.	Tons	Cunits	MBF
DF		13	2	83	114	5.480	5.05	10.96	16.9	61.8	5.28	185	677	470	165	60
DF		14	3	82	108	7.087	7.58	14.17	18.9	66.5	7.65	268	943	681	239	84
DF		15	4	82	111	8.232	10.10	20.58	17.7	62.7	10.38	364	1,290	924	324	115
DF		16	4	82	111	7.235	10.10	18.09	21.1	77.9	10.85	381	1,409	966	339	125
DF		17	3	83	102	4.807	7.58	9.61	27.5	98.2	7.54	265	944	671	235	84
DF		18	4	82	109	5.716	10.10	11.43	32.5	111.6	10.58	371	1,276	942	331	114
DF		19	4	82	108	5.131	10.10	10.26	37.2	121.1	10.88	382	1,243	969	340	111
DF		20	8	82	106	9.261	20.20	18.52	39.4	124.7	20.80	730	2,309	1,851	649	206
DF		21	6	82	103	6.300	15.15	12.60	44.3	144.1	15.88	558	1,815	1,414	496	162
DF		22	3	82	104	2.870	7.58	5.74	48.0	152.0	7.85	276	872	699	245	78
DF		23	4	82	100	3.501	10.10	7.00	51.9	166.2	10.36	363	1,164	922	323	104
DF		24	1	83	104	.804	2.53	1.61	58.6	204.2	2.69	94	328	239	84	29
DF		Totals	46	82	107	66.423	116.17	140.58	30.1	101.5	120.75	4,237	14,271	10,746	3,771	1,270
DL		26	2	84	105	1.370	5.05	2.74	66.9	247.5	5.04	183	678	449	163	60
DL		27	1	82	108	.635	2.53	1.27	75.7	290.0	2.64	96	368	235	86	33
DL		Totals	3	83	106	2.005	7.58	4.01	69.7	261.0	7.69	280	1,047	684	249	93
RA		11	2	78	74	7.653	5.05	7.65	8.6	27.0	1.81	66	207	161	58	18
RA		12	1	78	89	3.216	2.53	3.22	19.7	54.0	1.74	63	174	155	56	15
RA		14	1	79	73	2.362	2.53	2.36	29.9	72.0	1.95	71	170	173	63	15
RA		19	1	77	55	1.283	2.53	1.28	49.3	81.0	1.74	63	104	155	56	9
RA		20	1	78	57	1.158	2.53	1.16	55.1	81.0	1.75	64	94	156	57	8
RA		Totals	6	78	74	15.672	15.15	15.67	20.9	47.7	8.99	327	748	800	291	67
OC		13	1	83	30	2.740	2.53									
OC		18	1	80	35	1.429	2.53									
OC		Totals	2	82	32	4.169	5.05									
Totals		57	81	98		88.268	143.95	160.26	30.2	100.2	137.42	4844	16,066	12,231	4,311	1,430

TC TSTNDSUM		Stand Table Summary														
Project POTHOLED																
T02S R07W S14 TMC											T02S R07W S14 TMC					
											Page: 1					
Twp	Rge	Sec	Tract		Type	Acres	Plots	Sample Trees			Date: 08/05/2011					
02S	07W	14	AREA 2		MC	82.00	16	90			Time: 11:13:36AM					
Spc	S T	Sample		Av		Trees/ Acres	BA/ Acres	Logs Acres	Average Log		Net Tons/ Acres	Net Cu.Ft. Acres	Net Bd.Ft. Acres	Totals		
		DBH	Trees	16'	Tot				Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF
DF		10	3	81	56	9.550	5.21	9.55	9.6	31.7	2.63	92	302	215	76	25
DF		11	4	81	64	10.523	6.95	13.15	10.8	30.4	4.05	142	400	332	116	33
DF		12	12	82	69	26.528	20.84	37.58	11.9	37.4	12.70	447	1,407	1,042	366	115
DF		13	8	81	73	15.069	13.89	28.25	11.8	39.3	9.47	332	1,109	776	272	91
DF		14	5	82	89	8.121	8.68	16.24	14.5	46.5	6.72	236	756	551	193	62
DF		15	11	81	85	15.563	19.10	31.13	18.1	59.6	16.09	565	1,855	1,320	463	152
DF		16	7	81	88	8.704	12.15	17.41	20.6	65.8	10.24	359	1,146	840	295	94
DF		17	5	81	77	5.508	8.68	11.02	22.7	74.1	7.12	250	816	584	205	67
DF		18	8	82	96	7.860	13.89	15.72	27.9	89.7	12.50	439	1,409	1,025	360	116
DF		19	2	79	87	1.764	3.47	3.53	30.2	90.2	3.04	107	318	249	87	26
DF		20	5	83	108	3.979	8.68	7.96	37.0	112.1	8.40	295	892	689	242	73
DF		21	3	85	107	2.166	5.21	5.05	35.8	122.1	5.16	181	617	423	149	51
DF		22	1	72	122	.658	1.74	1.32	49.1	123.5	1.84	65	162	151	53	13
DF		23	5	80	105	3.009	8.68	6.62	41.2	120.0	7.77	273	795	637	224	65
DF		24	5	81	111	2.763	8.68	7.18	42.8	152.7	8.77	308	1,097	719	252	90
DF		25	1	78	98	.509	1.74	1.02	42.2	123.5	1.22	43	126	100	35	10
DF		Totals	85	81	79	122.274	147.58	212.73	19.4	62.1	117.73	4,132	13,209	9,654	3,388	1,083
DL		22	2	83	88	1.315	3.47	2.63	41.8	127.5	3.03	110	335	248	90	28
DL		26	1	77	120	.471	1.74	1.41	46.4	166.7	1.80	66	235	148	54	19
DL		Totals	3	81	96	1.786	5.21	4.04	43.4	141.2	4.83	176	571	396	144	47
OC		14	1	85	60	1.624	1.74									
OC		20	1	85	65	.796	1.74									
OC		Totals	2	85	62	2.420	3.47									
Totals		90	81	79		126.481	156.26	216.77	19.9	63.6	122.56	4307	13,780	10,050	3,532	1,130

TC TLOGSTVB

**Log Stock Table - MBF**

Project: **POTHOLED**

T02S R07W S14 TMC

T02S R07W S14 TMC

Twp Rge Sec Tract Type Acres Plots Sample Trees  
 02S 07W 14 AREA 5 MC 89.00 11 57

Page 1  
 Date 8/5/2010  
 Time 11:16:25AM

Spp	T	S	So	Gr	Log	Gross	% Def	Net	% Spc	Net Volume by Scaling Diameter in Inches										
										MBF	MBF	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23
DF		DO	2M	40	572	5.0	544	42.8					410	134						
DF		DO	3M	32	11	5.0	11	.8				5	5							
DF		DO	3M	40	613	5.0	583	45.9				154	185	244						
DF		DO	4M	20	24	5.0	23	1.8				10	12							
DF		DO	4M	21	17	5.0	16	1.2			16									
DF		DO	4M	33	27	5.0	25	2.0			25									
DF		DO	4M	36	36	5.0	34	2.7			34									
DF		DO	4M	37	8	5.0	8	.6			8									
DF		DO	4M	40	8	5.0	7	.6			7									
DF		DO	4M	41	21	5.0	20	1.6			20									
DF		Totals			1,337	5.0	1,270	88.8			110	170	203	244	410	134				
RA		DO	3M	31	17	10.0	15	23.2					15							
RA		DO	3M	38	17	10.0	15	22.7					15							
RA		DO	3M	39	10	10.0	9	13.9					9							
RA		DO	3M	40	9	10.0	8	12.5					8							
RA		DO	4M	17	20	10.0	18	27.6					18							
RA		Totals			74	10.0	67	4.7					67							
DL		DO	2M	40	75		75	80.3								75				
DL		DO	3M	40	18		18	19.7				4	14							
DL		Totals			93		93	6.5				4	14			75				
Total All Species					1,504	4.9	1,430	100.0			110	174	283	244	410	134	75			

TC TLOGSTVB

## Log Stock Table - MBF

Project: POTHOLED

T02S R07W S14 TMC

T02S R07W S14 TMC

Twp Rge Sec Tract Type Acres Plots Sample Trees  
 02S 07W 14 AREA 2 MC 82.00 16 90

Page 1  
 Date 8/5/2010  
 Time 11:13:35AM

Spp	T	S	So	Gr	Log	Gross	%	Net	%	Net Volume by Scaling Diameter in Inches										
										MBF	Def	MBF	Spc	2-3	4-5	6-7	8-9	10-11	12-13	14-15
DF		DO	2M	32		14	5.0	13	1.2							13				
DF		DO	2M	40		156	5.0	148	13.7						73	75				
DF		DO	3M	32		324	5.0	308	28.4			19	149	121		19				
DF		DO	3M	40		320	5.0	304	28.1			36	90	158	21					
DF		DO	4M	15		1	5.0	1	.1			1								
DF		DO	4M	16		3	5.0	3	.3			3								
DF		DO	4M	18		22	5.0	21	1.9			21								
DF		DO	4M	19		4	5.0	3	.3			2	1							
DF		DO	4M	20		48	5.0	46	4.2			12	6	28						
DF		DO	4M	21		48	5.0	45	4.2			45								
DF		DO	4M	22		15	5.0	14	1.3			9		6						
DF		DO	4M	24		9	5.0	9	.8			7	1							
DF		DO	4M	26		4	5.0	4	.3			4								
DF		DO	4M	28		9	5.0	8	.8			8								
DF		DO	4M	30		32	5.0	31	2.9			21				10				
DF		DO	4M	32		1	5.0	1	.1			1								
DF		DO	4M	34		61	5.0	58	5.4			58								
DF		DO	4M	37		8	5.0	8	.7			8								
DF		DO	4M	38		42	5.0	40	3.7			40								
DF		DO	4M	40		18	5.0	17	1.6			9	8							
DF		Totals				1,140	5.0	1,083	95.9			250	72	273	278	93	117			
DL		DO	2M	40		38		38	80.4						24	14				
DL		DO	3M	32		7		7	15.7				3		5					
DL		DO	4M	20		1		1	1.6			1								
DL		DO	4M	21		1		1	2.3			1								
DL		Totals				47		47	4.1			2	3		5	24	14			
Total All Species						1,187	4.8	1,130	100.0			252	74	273	283	117	131			

TC TSTNDSUM		Stand Table Summary														
Project POTHOLED																
T02S R07W S14 TMC										T02S R07W S14 TMC						
Twp		Rge	Sec	Tract	Type			Acres	Plots	Sample Trees			Page:			
02S		07W	14	AREA 4	MC			94.00	19	120			1			
											Date:	08/05/2010				
											Time:	11:15:00AM				
S Spec	T	Sample		Av	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals			
		DBH	Trees	FF 16'				Ht Tot	Net Cu.Ft.				Net Bd.Ft.	Tons	Cunits	MBF
DF		8	3	85	53	12.566	4.39	12.57	5.9	25.3	2.12	75	318	200	70	30
DF		9	1	80	54	3.310	1.46	3.31	7.5	28.5	.71	25	94	67	23	9
DF		10	6	81	55	16.084	8.77	16.08	10.4	34.8	4.76	167	560	448	157	53
DF		11	6	84	65	13.293	8.77	19.94	9.7	35.9	5.49	192	716	516	181	67
DF		12	5	81	69	9.308	7.31	11.17	13.4	41.2	4.26	149	460	400	140	43
DF		13	9	82	71	14.276	13.16	22.21	14.8	46.8	9.37	328	1,040	881	309	98
DF		14	6	81	87	8.206	8.77	16.41	15.6	50.7	7.31	257	832	687	241	78
DF		15	16	82	83	19.063	23.39	36.93	18.2	60.7	19.12	671	2,241	1,798	631	211
DF		16	19	82	80	19.896	27.78	37.70	20.0	63.1	21.49	754	2,378	2,020	709	223
DF		17	10	82	85	9.276	14.62	18.55	24.1	79.8	12.75	447	1,480	1,198	421	139
DF		18	8	82	90	6.619	11.70	13.24	27.8	91.4	10.48	368	1,210	985	346	114
DF		19	9	82	97	6.683	13.16	13.37	32.4	99.2	12.33	433	1,326	1,159	407	125
DF		20	3	82	93	2.011	4.39	4.02	34.9	102.9	4.00	140	414	376	132	39
DF		21	5	83	104	3.039	7.31	4.86	41.5	122.3	5.76	202	595	541	190	56
DF		23	1	81	65	.507	1.46	1.01	36.3	99.8	1.05	37	101	98	35	10
DF		25	1	81	113	.429	1.46	.86	49.7	128.2	1.21	43	110	114	40	10
DF	Totals	108	82	74		144.566	157.91	232.23	18.5	59.7	122.23	4,288	13,875	11,489	4,031	1,304
DL		22	2	81	96	1.108	2.92	2.22	43.3	127.5	2.64	96	282	248	90	27
DL		23	2	82	102	1.014	2.92	2.03	44.1	142.5	2.46	89	289	231	84	27
DL	Totals	4	81	98		2.121	5.85	4.24	43.7	134.7	5.10	185	571	479	174	54
RA		15	2	74	49	2.383	2.92	2.38	24.9	49.5	1.63	59	118	153	56	11
RA		16	2	76	51	2.094	2.92	2.09	30.8	63.0	1.77	65	132	167	61	12
RA		17	2	74	48	1.855	2.92	1.86	33.9	58.5	1.73	63	109	162	59	10
RA	Totals	6	75	49		6.332	8.77	6.33	29.5	56.6	5.13	187	358	482	175	34
OC		7	1	70	64	5.471	1.46									
OC		8	1	69	64	4.189	1.46									
OC	Totals	2	70	64		9.659	2.92									
Totals		120	81	73		162.679	175.45	242.81	19.2	61.0	132.45	4660	14,805	12,451	4,380	1,392



TC		TSTNDSUM		Stand Table Summary												
Project														POTHOLED		
T02S R07W S14 TPC										T02S R07W S14 TPC						
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page:	1							
02S	07W	14	AREA 1	PC	66.00	12	84	Date:	08/05/2010							
								Time:	1:03:11PM							
Spc	S T	Sample		Av	Trees/			Average Log		Net			Totals			
		DBH	Trees	FF 16'	Ht Tot	BA/ Acre	Logs Acre	Net Cu.Ft.	Net Bd.Ft.	Tons/ Acre	Cu.Ft. Acre	Net Bd.Ft. Acre	Tons	Cunits	MBF	
DF		9	1	80	80	5.240	2.32	5.24	11.3	38.0	1.68	59	199	111	39	13
DF		10	7	82	78	29.711	16.21	42.44	9.2	35.1	11.11	390	1,492	733	257	98
DF		11	4	82	62	14.031	9.26	17.54	11.3	34.2	5.64	198	600	372	131	40
DF		12	9	82	67	26.528	20.84	35.37	13.9	41.2	14.01	492	1,456	925	324	96
DF		13	11	82	80	27.627	25.47	50.23	14.1	47.0	20.18	708	2,362	1,332	467	156
DF		14	7	82	78	15.159	16.21	25.99	16.3	49.1	12.07	423	1,276	797	279	84
DF		15	6	81	76	11.319	13.89	22.64	16.3	53.0	10.52	369	1,201	694	244	79
DF		16	7	82	87	11.606	16.21	23.21	21.6	69.9	14.27	501	1,622	942	331	107
DF		17	4	80	88	5.875	9.26	11.75	24.8	81.9	8.32	292	963	549	193	64
DF		18	1	81	107	1.310	2.32	3.93	21.2	76.0	2.38	83	299	157	55	20
DF		19	2	81	78	2.352	4.63	4.70	28.9	80.8	3.87	136	380	256	90	25
DF		20	1	80	78	1.061	2.32	2.12	32.6	95.0	1.97	69	202	130	46	13
DF		21	2	81	84	1.925	4.63	3.85	38.4	109.3	4.21	148	421	278	97	28
DF	Totals		62	82	76	153.743	143.53	249.02	15.5	50.1	110.23	3,867	12,471	7,275	2,552	823
DL		13	1	82	73	2.512	2.32	5.02	12.2	45.0	1.69	61	226	111	41	15
DL		15	1	85	82	1.886	2.32	3.77	18.0	70.0	1.87	68	264	123	45	17
DL		16	3	84	77	4.974	6.95	8.29	23.5	78.0	5.35	195	647	353	128	43
DL		17	4	83	87	5.875	9.26	11.75	25.1	85.0	8.10	295	999	535	194	66
DL		18	2	81	81	2.620	4.63	5.24	27.0	87.5	3.89	141	459	256	93	30
DL		19	1	79	100	1.176	2.32	2.35	33.9	110.0	2.19	80	259	144	53	17
DL		20	1	82	76	1.061	2.32	2.12	32.6	100.0	1.90	69	212	126	46	14
DL		21	2	79	84	1.925	4.63	3.85	38.4	115.0	4.06	148	443	268	97	29
DL		22	2	81	91	1.754	4.63	4.38	34.7	112.0	4.18	152	491	276	100	32
DL		23	1	81	119	.802	2.32	2.41	38.1	143.3	2.52	92	345	166	60	23
DL		24	1	82	75	.737	2.32	1.47	45.5	155.0	1.84	67	228	122	44	15
DL		26	1	82	76	.628	2.32	1.26	55.1	160.0	1.90	69	201	126	46	13
DL	Totals		20	82	83	25.950	46.30	51.92	27.7	91.9	39.50	1,436	4,773	2,607	948	315
WL		17	1	81	116	1.469	2.32	4.41	22.7	90.0	3.20	100	397	211	66	26
WL	Totals		1	81	116	1.469	2.32	4.41	22.7	90.0	3.20	100	397	211	66	26
OC		60	1	99	17	.118	2.32									
OC	Totals		1	99	17	.118	2.32									
Totals			84	82	78	181.279	194.46	305.34	17.7	57.8	152.93	5404	17,641	10,093	3,566	1,164

TC		TLOGSTVB		Log Stock Table - MBF					Project: POTHOLED											
T02S R07W S14 TMC										T02S R07W S14 TMC										
Twsp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page	1											
02S	07W	14	AREA 4	MC	94.00	19	120	Date	8/5/2010											
								Time	11:15:00AM											
Spp	T	S	So	Gr	Log	Len	Gross MBF	% Def	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches									
											2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29
DF		DO	2M		40		11	5.0	11	.8					11					
DF		DO	3M		32		328	5.0	312	23.9			24	208	71	9				
DF		DO	3M		40		635	5.0	603	46.2			41	209	255	98				
DF		DO	4M		16		13	5.0	13	1.0		13								
DF		DO	4M		17		23	5.0	21	1.6		21								
DF		DO	4M		18		28	5.0	26	2.0		26								
DF		DO	4M		20		9	5.0	8	.6		8								
DF		DO	4M		21		5	5.0	4	.3		4								
DF		DO	4M		22		15	5.0	14	1.1		6		8						
DF		DO	4M		24		18	5.0	17	1.3		17								
DF		DO	4M		25		20	5.0	19	1.5		19								
DF		DO	4M		26		28	5.0	27	2.1		27								
DF		DO	4M		27		21	5.0	20	1.5		20								
DF		DO	4M		29		22	5.0	21	1.6		21								
DF		DO	4M		30		48	5.0	46	3.5		46								
DF		DO	4M		33		93	5.0	88	6.8		88								
DF		DO	4M		34		3	5.0	3	.3		3								
DF		DO	4M		35		21	5.0	20	1.6		20								
DF		DO	4M		36		6	5.0	6	.4		6								
DF		DO	4M		37		3	5.0	3	.2		3								
DF		DO	4M		38		5	5.0	5	.4		5								
DF		DO	4M		39		3	5.0	3	.2		3								
DF		DO	4M		40		16	5.0	15	1.2		7		8						
DF		Totals					1,373	5.0	1,304	93.7		362		73	425	327	117			
RA		DO	3M		33		6	10.0	5	16.3				5						
RA		DO	4M		26		6	10.0	5	15.0				5						
RA		DO	4M		31		12	10.0	11	31.9				11						
RA		DO	4M		32		14	10.0	12	36.8				12						
RA		Totals					37	10.0	34	2.4				34						
DL		DO	2M		32		9		9	16.9					9					
DL		DO	2M		40		23		23	42.7					23					
DL		DO	3M		40		17		17	31.9			3			14				
DL		DO	4M		18		1		1	1.8		1								
DL		DO	4M		27		2		2	2.9		2								
DL		DO	4M		40		2		2	3.9		2								
DL		Totals					54		54	3.9		5		3		32	14			
Total All Species							1,464	4.9	1,392	100.0		367		76	459	327	149	14		

TC TLOGSTVB

**Log Stock Table - MBF**  
Project: **POTHOLED**

T02S R07W S14 TPC

T02S R07W S14 TPC

Twp Rge Sec Tract Type Acres Plots Sample Trees  
02S 07W 14 AREA 1 PC 66.00 12 84

Page 1  
Date 8/5/2010  
Time 1:06:40PM

SPP	S	So	Gr	Log	Gross	% Def	Net	% Spc	Net Volume by Scaling Diameter in Inches											
									MBF	MBF	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29
DF	DO	2M	40		13	5.0	12	1.5						12						
DF	DO	3M	22		27	5.0	25	3.1				16	9							
DF	DO	3M	23		9	5.0	9	1.1		9										
DF	DO	3M	32		106	5.0	100	12.2				77	24							
DF	DO	3M	40		392	5.0	373	45.3			57	213	90	12						
DF	DO	4M	16		13	5.0	12	1.5		12										
DF	DO	4M	17		4	5.0	4	.4		4										
DF	DO	4M	18		7	5.0	6	.8		6										
DF	DO	4M	20		22	5.0	21	2.5		10	8	3								
DF	DO	4M	21		16	5.0	15	1.8		15										
DF	DO	4M	22		22	5.0	21	2.5		4	9	7								
DF	DO	4M	23		7	5.0	7	.8		7										
DF	DO	4M	24		6	5.0	6	.7		6										
DF	DO	4M	25		2	5.0	2	.2		2										
DF	DO	4M	26		34	5.0	32	3.9		32										
DF	DO	4M	27		5	5.0	5	.6		5										
DF	DO	4M	28		12	5.0	12	1.4		12										
DF	DO	4M	29		12	5.0	11	1.3		11										
DF	DO	4M	30		6	5.0	6	.7		6										
DF	DO	4M	31		5	5.0	5	.6		5										
DF	DO	4M	32		4	5.0	4	.4		4										
DF	DO	4M	33		4	5.0	4	.5		4										
DF	DO	4M	34		30	5.0	29	3.5		29										
DF	DO	4M	36		24	5.0	22	2.7		22										
DF	DO	4M	37		26	5.0	25	3.0		25										
DF	DO	4M	39		48	5.0	46	5.6		46										
DF	DO	4M	40		11	5.0	11	1.3		11										
DF	Totals				866	5.0	823	70.7		285	74	317	123	24						
DL	DO	2M	40		29		29	9.3						14	15					
DL	DO	3M	20		4		4	1.3					4							
DL	DO	3M	22		1		1	.4		1										
DL	DO	3M	32		25		25	8.0				12			14					
DL	DO	3M	40		215		215	68.3			8	58	101	37	12					
DL	DO	4M	17		4		4	1.4		4										
DL	DO	4M	20		7		7	2.1		7										
DL	DO	4M	21		5		5	1.6		5										
DL	DO	4M	24		3		3	.8		3										
DL	DO	4M	25		3		3	.9		3										
DL	DO	4M	26		3		3	.9		3										
DL	DO	4M	28		7		7	2.3		7										
DL	DO	4M	31		1		1	.5		1										
DL	DO	4M	38		3		3	1.0		3										
DL	DO	4M	39		4		4	1.2		4										
DL	Totals				315		315	27.1		41	8	69	105	51	41					
WL	DO	4M	23		6		6	22.2				6								
WL	DO	4M	24		3		3	11.1		3										
WL	DO	4M	40		17		17	66.7					17							
WL	Totals				26		26	2.2		3		6	17							

TC TLOGSTVB

**Log Stock Table - MBF**

Project: **POTHOLED**

T02S R07W S14 TPC

T02S R07W S14 TPC

Twp Rge Sec Tract Type Acres Plots Sample Trees  
 02S 07W 14 AREA 1 PC 66.00 12 84

Page 2  
 Date 8/5/2010  
 Time 1:06:40PM

Spp	T	S	So	Gr	Log	Gross	%	Net	%	Net Volume by Scaling Diameter in Inches										
										MBF	Def	MBF	Spc	2-3	4-5	6-7	8-9	10-11	12-13	14-15
Total All Species						1,208	3.6	1,164	100.0		329	81	392	246	75	41				



## OREGON DEPARTMENT OF FORESTRY CRUISE REPORT

### *Pothole*

#### 1. Type of Sale

Regeneration/ Retention harvest, Recovery

Pothole sale is part of a larger Paired Watershed Study looking at the effects of managing around headwater streams.

#### 2. Legal Description

Sections 14, 22, 23, 26, and 27, T 2 S, R 7 W, W.M. Tillamook County, Oregon

#### 3. Sale Acreage

Sale acreage was determined by GPS and orthophotographs along with GIS.

	ACRES	
	<u>Gross</u>	<u>Net</u>
Area 1 (Retention Cut)	66	66
Area 2 (Clearcut)	99	82
Area 3 (Retention Cut)	25	25
Area 4 (Clear Cut)	110	94
Area 5 (Clear Cut)	93	89

#### Gross Acres

Area within the Timber Sale Boundary signs

#### Net acres

Gross acres, less green tree retention, roads, Non-required thinning areas, and riparian areas classified as Special Stewardship in LMCS inside the sale boundary.

#### 4. Cruising Procedures

##### A. Cruise Method

A total of 63 variable radius plots were taken. All conifers 8 inches DBH and greater containing 20 net board feet and all hardwoods 10 inches DBH and greater containing 30 net board feet were recorded on all plots. Species were recorded on all trees, and they were measured for merchantable height, diameter, and form factor.

##### B. Plot size

A basal area factor of 27.78 was used, and the point of tree observation was 4.5.

##### C. Grading System

All trees were graded according to Columbia River Log Scaling and Grading Rules. Tree heights were recorded to a 6 inch top outside bark for all conifers

and 7 inches outside bark for hardwoods; or three tenths (0.3) of DBH for all species, whichever was greater. Log lengths all favored 40 feet for all species. Heights and diameter measurement standards were to the nearest foot or inch respectively.

**5. Computation Procedure**

Plot data was entered into SuperAce for computation of basal area, stand tables, and volume for each species and type. Take and leave trees were determined from the plot data to meet prescription targets. Based on net board feet per acre the Coefficient of Variation and Standard Error percentage for Area 1 is 36% and 11% respectively, and Area 2 is 45% and 12% respectively, and Area 3 is 35% and 17% respectively, and Area 4 is 43% and 10% respectively, and Area 5 is 35% and 11% respectively.

**6. Hidden Defect and Breakage**

A 5% for conifer and 10% for hardwood hidden defect and breakage was applied.

**7. Timber Description**

Area 1 was planted with Douglas fir in 1969-1970. There is a minor component of Western Hemlock mixed in with the Douglas-fir. This entire area was partial-cut in 1996.

Area 2 burned in the 1951 North Fork/Elkhorn fire. The area naturally regenerated with Douglas-fir and is between 60-70 years old.

Areas 3 and 4 range in age from 45 to 50 years old, comprised of mainly Douglas-fir. A portion of the area burned in the 1951 North Fork/Elkhorn fire. Most of the area was hand planted, a small portion of these areas were partial cut in 1996.

Area 5 is roughly 60-70 years old. A portion burned in the North Fork/Elkhorn fire, and was naturally regenerated with Douglas-fir. The entire area was partial cut in 2001.

For all areas diameters range from 10 to 21 inches, while merchantable heights range from approximately 50-110 feet. Live crown ratios range from 50 to 80 percent. Understory components include sword fern, Oregon grape, and Salal.

**8. Cruiser Names/Dates**

Planning Unit, Fall 2008

**9. Revenue Distribution**

100% FDF

Tax Code: 9-1 89%

Tax Code: 8-1 11%

Deed Number: 169

**10. Attachments**

Stand Table Summary

Log Stock Tables

Volume Summary

Logging Plan

**11. Stand and Log Stock Tables Species Key**

DL – Douglas-fir leave

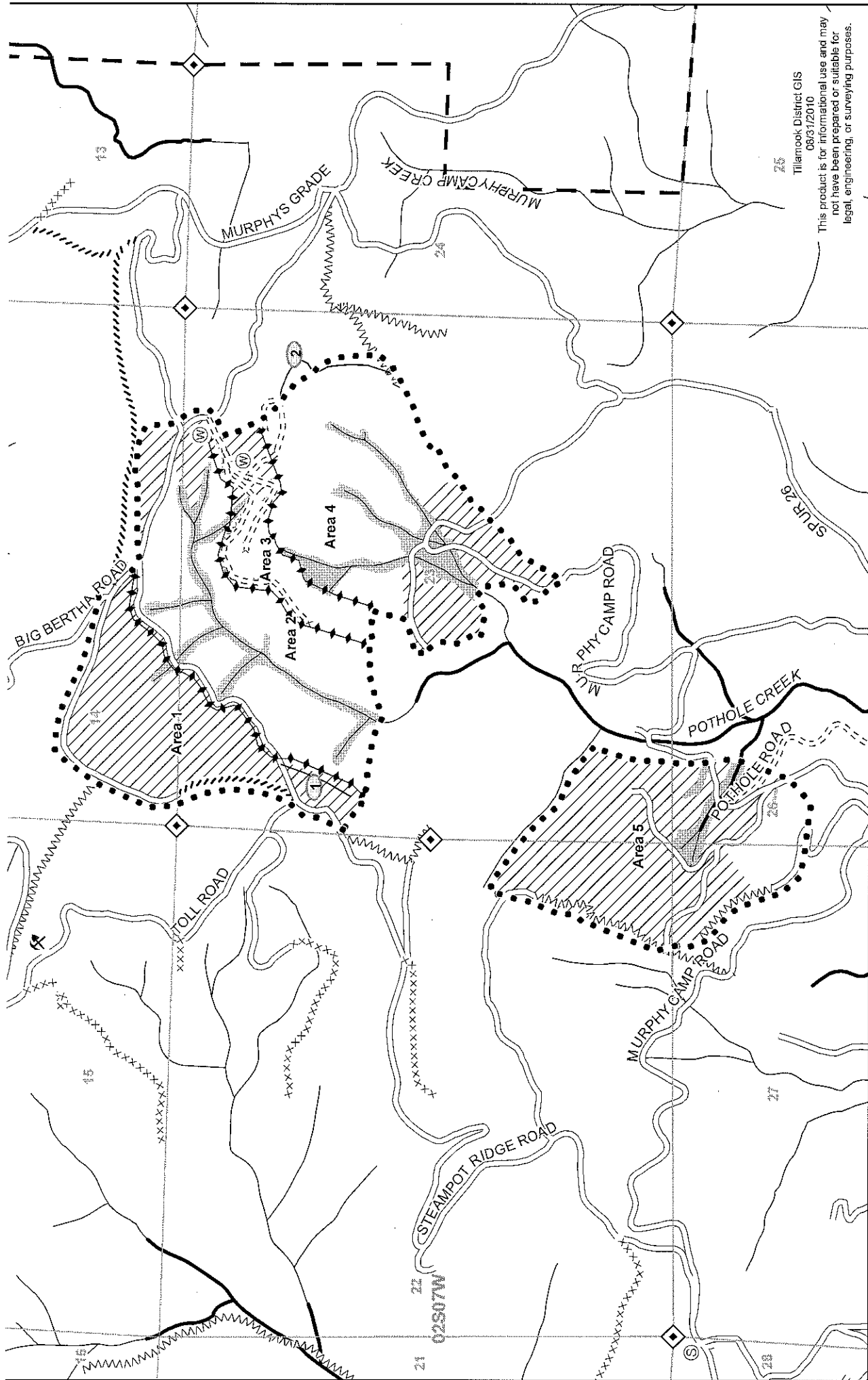
DF – Douglas-fir take

RA – Red alder take

WL – Western hemlock leave

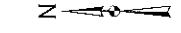
WH – Western hemlock take

OC- Other conifer (snags)



Tillamook District GIS  
08/31/2010  
This product is for informational use and may not have been prepared or suitable for legal, engineering, or surveying purposes.

Area	Type of Operation	Acres
1	Retention cut	66
2	Modified clearcut	99
3	Retention cut	25
4	Modified clearcut	110
5	Modified clearcut	93
<b>Total</b>		<b>393</b>



**LOGGING PLAN**  
Timber Sale Contract No. 341-11-41  
Pothole  
Portions of Sections 14, 22, 23, 26 and 27  
T2S, R7W, W/M,  
Tillamook County, Oregon  
1,000 0 1,000 Feet

- Rock source
- Stock pile
- Waste area
- Bridge
- Gate
- Survey corner
- Domestic water supply intake
- Truck turn-around
- Helicopter landing zone
- Area boundary
- Sale boundary
- Ownership boundary
- Perennial Type-F stream
- Perennial Type-N stream
- Unsurfaced road
- Surfaced road
- Paved road
- Abandoned road
- Landing
- Buffer
- Non-required thinning
- Cable yarding
- Ground yarding
- Helicopter yarding
- Downhill yarding
- Green tree
- Swing road
- Non-project road
- Blocked road
- Road construction
- OHV trail
- Non-motorized trail
- Transmission line
- Railroad