



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Rutherford Road
Sale 341-12-76

District: Forest Grove

Date: March 07, 2012

cost summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$629,863.68	\$25,143.08	\$655,006.76
		Project Work:	\$(57,700.00)
		Advertised Value:	\$597,306.76



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Rutherford Road
Sale 341-12-76

District: Forest Grove

Date: March 07, 2012

timber description

Location: Portions of Sections 34 and 35, T2N, R6W, and portions of Sections 2 and 3, T1N, R6W, W.M., Tillamook County, Oregon.

Stand Stocking: 20%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	14	0	98
Alder (Red)	17	0	98

Volume by Grade	2S	3S	4S	Camprur	Total
Douglas - Fir	527	1,414	195	0	2,136
Alder (Red)	0	0	0	76	76
Total	527	1,414	195	76	2,212



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Rutherford Road
Sale 341-12-76

District: Forest Grove

Date: March 07, 2012

comments: Pond Values Used: 4th Quarter Calendar Year 2011.

Western Hemlock and Other Conifers Stumpage Price = Pond Value
minus Logging Cost:
 $\$218.85/\text{MBF} = \$415/\text{MBF} - \$196.15/\text{MBF}$

Western redcedar and Other Cedars Stumpage Price = Pond Value
minus Logging Cost:
 $\$603.85/\text{MBF} = \$800/\text{MBF} - \$196.15/\text{MBF}$

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 & Risk to be added):
Brand and Paint: $2,212 \text{ MBF} \times \$1/\text{MBF} = \$2,212$
TOTAL Other Costs (with Profit and Risk to be added) = \$2,212

Other Costs (No Profit & Risk added):
Equipment Cleaning: $2 \text{ machines} \times \$1,000/\text{machine} = \$2,000$
TOTAL Other Costs (No Profit & Risk added) = \$2,000

ROAD MAINTENANCE
Move-in: \$2,000
General Road Maintenance: $5.8 \text{ miles} \times \$1,000/\text{mile} = \$5,800$
TOTAL: \$7,800 (\$3.53/MBF)



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Rutherford Road
Sale 341-12-76

District: Forest Grove

Date: March 07, 2012

logging conditions

combination#:	1	Douglas - Fir	96.00%
		Alder (Red)	96.00%
yarding distance:	Medium (800 ft)	downhill yarding:	No
logging system:	Cable: Small Tower <=40	Process:	Stroke Delimber
tree size:	Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF		
loads / day:	6.0	bd. ft / load:	4,200
cost / mbf:	\$112.47		
machines:	Log Loader (A)		
	Stroke Delimber (A)		
	Tower Yarder (Small)		
combination#:	2	Douglas - Fir	4.00%
		Alder (Red)	4.00%
yarding distance:	Short (400 ft)	downhill yarding:	No
logging system:	Track Skidder	Process:	Stroke Delimber
tree size:	Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF		
loads / day:	7.0	bd. ft / load:	4,200
cost / mbf:	\$48.92		
machines:	Stroke Delimber (B)		



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Rutherford Road
Sale 341-12-76

District: Forest Grove

Date: March 07, 2012

logging costs

Operating Seasons:	2.00	Profit Risk:	10.00%
Project Costs:	\$57,700.00	Other Costs (P/R):	\$2,212.00
Slash Disposal:	\$0.00	Other Costs:	\$2,000.00

Miles of Road

Road Maintenance: \$3.53

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

Hauling Costs

Species	\$ / MBF	Trips/Day	MBF / Load
Douglas - Fir	\$0.00	3.0	4.2
Alder (Red)	\$0.00	2.0	3.2



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Rutherford Road
Sale 341-12-76

District: Forest Grove

Date: March 07, 2012

logging costs breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
Douglas - Fir									
\$109.93	\$3.60	\$3.96	\$54.46	\$1.00	\$17.30	\$0.00	\$5.00	\$0.90	\$196.15
Alder (Red)									
\$109.93	\$3.60	\$3.96	\$107.21	\$1.00	\$22.57	\$0.00	\$5.00	\$0.90	\$254.17

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$491.03	\$294.88	\$0.00
Alder (Red)	\$0.00	\$585.00	\$330.83	\$0.00



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Rutherford Road
Sale 341-12-76

District: Forest Grove

Date: March 07, 2012

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	2,136	\$294.88	\$629,863.68
Alder (Red)	76	\$330.83	\$25,143.08

Gross Timber Sale Value

Recovery: \$655,006.76

Prepared by: Mark Savage

Phone: 503-359-7437

TIMBER SALE SUMMARY
Rutherford Road
341-12-76

1. **Type of Sale:** Modified clear cut, recovery, sealed bid auction.
2. **Revenue Distribution:** 100% BOF, Tillamook County, Tax Code 56.
3. **Sale Acreage:** Approximately 78 acres of modified clearcut. Acres were determined using ESRI Arcmap GIS software.
4. **Cruise:** The Timber Sale was cruised by an ODF cruiser using variable radius plots. Volume estimates and plot data statistics were computed using SuperACE timber cruise software. For more information see the Cruise Report.
5. **Timber Description:** The Sale Area is 50 year old stand of Douglas-fir. The DBH averages approximately 14 inches for Douglas-fir and 17 inches for red alder. The average net volume per acre is approximately 29 MBF.
6. **Topography and Logging Method:** This sale area is 100% cable yarding. The maximum yarding distance is approximately 1,700 feet horizontal distance, with an average yarding distance of about 800 feet. Slopes range from 40% to 80%.
7. **Access:** From Forest Grove travel north on Highway 8 to its junction with Highway 6. Turn left and continue west approximately 10.5 miles to Rutherford Road. Turn left and proceed 1.1 miles to the Timber Sale Area.

8. Projects:

Project No. 1: 3.28 miles of road construction/improvement.	\$25,206.40
Project No. 2: Road surfacing.	\$28,810.38
<u>Move in and equipment cleaning:</u>	\$3,591.25
Total Credit for all Projects (rounded)	\$57,700.00

9. Other Costs:

<u>Other Costs with (P/R)</u>	
Brand and Paint: 2,212 MBF @ \$1.00/MBF	\$2,212.00
Total Other Costs with (P/R):	\$2,212.00
 <u>Other Costs (no P/R)</u>	
Equipment Cleaning: 2 machines @ 1000/machine	\$2,000.00
Total Other Costs (no P/R):	\$2,000.00
 Total Other Costs:	 \$4,212.00

PROJECT COST SUMMARY SHEET

Timber Sale: Rutherford Road

Sale Number: 341-13-02

PROJECT NO. 1: ROAD CONSTRUCTION AND IMPROVEMENT

IMPROVEMENTS

<u>Road Segment</u>	<u>Length</u>	<u>Cost</u>
A to B	90+00	\$21,724.30
C to D	83+00	\$3,482.10
	173+00 stations	
	3.28 miles	

TOTAL PROJECT NO. 1 COST = **\$25,206.40**

PROJECT NO. 2: SURFACING

<u>Road Segment</u>	<u>Amount</u>	<u>Type</u>	<u>Cost</u>
A to B	1,965 cy	1 1/2" - 0	\$17,606.40
A to B	340 cy	3" - 0	\$3,049.98
C to D	500 cy	1 1/2" - 0	\$4,530.00
C to D	400 cy	3" - 0	\$3,624.00
Total	2,465 cy	1 1/2" - 0	
	740 cy	3" - 0	

TOTAL PROJECT NO. 2 COST = **\$28,810.38**

MOVE IN & EQUIPMENT CLEANING **\$3,591.25**

TOTAL ALL PROJECTS **\$57,608.03**

TOTAL CREDITS **\$57,700.00**

SUMMARY OF CONSTRUCTION COST

Timber Sale: Rutherford Road
Road Segment: A to B

Timber Sale No. : 341-13-02
Improvement: 90+00 stations
1.70 miles

PROJECT NO. 1

EXCAVATION

Clearing and Grubbing (Scatter)						\$1,000.00
Clean and/or Construct Ditches - Endhaul to Waste Area	90.00	sta @	\$100.00	per sta =		\$9,000.00
Culvert Removal at 39+70	1.00	ea @	\$200.00	per ea =		\$200.00
Grade Improvement at 55+50						
Excavate	210	cy @	\$1.09	per cy =		\$228.90
Compact Fill	210	cy @	\$0.75	per cy =		\$157.50
Grade, Ditch, and Roll	90.00	sta @	\$28.70	per sta =		\$2,583.00
					TOTAL EXCAVATION COSTS=	\$14,798.30

CULVERTS - MATERIALS & INSTALLATION

Culverts						
246 LF of 18"	\$4,428.00	60 LF of 24"	\$1,440.00			
Culvert Markers						
7 markers	\$70.00					
Additional Culvert Installation Cost						
Equipment	5 Hrs @	\$150.00 per hr =	\$ 750.00			
					TOTAL CULVERT COSTS =	\$6,688.00

GRASS SEED, FERTILIZER AND MULCH

Grass seed and fertilizer	1.00 acres @	\$220.00 per acre =	\$220.00			
Mulch	4.00 bales @	\$4.50 per bale =	\$18.00			
					TOTAL GRASS SEED, FERTILIZER AND MULCH COSTS =	\$238.00

PROJECT NO. 1 TOTAL COST = \$21,724.30

PROJECT NO. 2:

SURFACING

	14' wide x 3" deep =	17 cy/sta	of 1 1/2" - 0			
	14' wide x 8" deep =	48 cy/sta	of 3" - 0			
Surfacing	1,530	cy of	1 1/2" - 0	@	\$8.96 per cy =	\$13,708.80
Base Rock	326	cy of	3" - 0	@	\$8.96 per cy =	\$2,924.54
Base Rock for Turnout	14	cy of	3" - 0	@	\$8.96 per cy =	\$125.44
Turnouts (10)	60	cy of	1 1/2" - 0	@	\$8.96 per cy =	\$537.60
Junctions (3)	120	cy of	1 1/2" - 0	@	\$8.96 per cy =	\$1,075.20
Trailhead Parking Area	55	cy of	1 1/2" - 0	@	\$8.96 per cy =	\$492.80
Culvert Bedding (8)	200	cy of	1 1/2" - 0	@	\$8.96 per cy =	\$1,792.00
Total =						
	1965	cy of	1 1/2" - 0		\$8.96 per cy =	\$17,606.40
	340	cy of	3" - 0		\$8.96 per cy =	\$3,049.98

PROJECT NO. 2 TOTAL COST = \$20,656.38

TOTAL COST = \$42,380.68

SUMMARY OF CONSTRUCTION COST

Timber Sale: Rutherford Road Timber Sale No. : 341-13-02
Road Segment: C to D Improvement: 83+00 stations
1.57 miles

PROJECT NO. 1

EXCAVATION

Improve Turnouts (5)	5	ea @	\$60.00	per ea =	\$300.00	
Landing (Roadside)	5	ea @	\$150.00	per ea =	\$750.00	
Grade, Ditch, and Roll	83.00	sta @	\$28.70	per sta =	\$2,382.10	
					TOTAL EXCAVATION COSTS=	\$3,432.10

CULVERTS - MATERIALS & INSTALLATION

Culvert Markers

5 markers \$50.00

TOTAL CULVERT COSTS = \$50.00

PROJECT NO. 1 TOTAL COST = \$3,482.10

PROJECT NO. 2:

SURFACING

Landing = 10" deep

Spot Rock	500	cy of	1 1/2" - 0	@	\$9.06	per cy =	\$4,530.00
Landings (5)	400	cy of	3" - 0	@	\$9.06	per cy =	\$3,624.00
Total =							
	500	cy of	1 1/2" - 0		\$9.06	per cy =	\$4,530.00
	400	cy of	3" - 0		\$9.06	per cy =	\$3,624.00

PROJECT NO. 2 TOTAL COST = \$8,154.00

TOTAL COST = \$11,636.10

Move-In & Equipment Cleaning

Timber Sale: Rutherford Road
Sale Number: 341-13-02

LOWBOY HAUL (One-way)		
DIST. (mi)	ROAD	AVE SPEED (mph)
2.3	Main Lines	7
0.5	Steep Grades	2

Within												Within		
No.	EQUIPMENT DESCRIPTION	Equipment Cleaning	Base Cost	Woods Cost	Pilot Cars	Area Move (\$/mile)	Begin Mileage	End Mileage	Total Miles	Area Cost	Total 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		\$300.00	\$88.08		\$3.65	\$0.00	\$0.00	\$0.00	\$0.00	\$388.08			
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	\$169.82	1	\$9.00	\$0.00	\$0.00	\$0.00	\$0.00	\$584.21			
1	Rollers (smooth/grid) & Compactors		\$308.59	\$104.65		\$5.00	\$0.00	\$0.00	\$0.00	\$0.00	\$413.24			
0	Excavators (Small)	\$0	\$0.00	\$0.00		\$22.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
0	Excavators (Med.)	\$0	\$0.00	\$0.00		\$35.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
1	Excavators (Large)	\$1,000	\$466.14	\$187.78	1	\$44.80	\$0.00	\$0.00	\$0.00	\$0.00	\$1,653.92			
0	Tired Backhoes/Skidders	\$0	\$0.00	\$0.00		\$3.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
0	Tractors (D6)	\$0	\$0.00	\$0.00	2	\$7.10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
0	Tractors (D7)	\$0	\$0.00	\$0.00	2	\$11.30	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
0	Tractor (D8)	\$0	\$0.00	\$0.00	2	\$15.10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
3	Dump Truck (10 cy +)		\$350.00	\$84.00		\$2.85	\$0.00	\$0.00	\$0.00	\$0.00	\$434.00			
0	Dump Truck (Off Hiway)		\$0.00	\$0.00	1	\$4.75	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
1	Water Truck (1500 Gal)		\$95.00	\$22.80		\$2.85	\$0.00	\$0.00	\$0.00	\$0.00	\$117.80			
0	Water Truck (2500 Gal)		\$0.00	\$0.00		\$2.85	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
TOTAL MOVE-IN COSTS:												\$3,591.25		

RUTHERFORD ROAD
341-12-76
Volume Summary (Shown in MBF)
JANUARY 2012

Area 1: Modified Clearcut (78 Acres)

SPECIES		2 SAW	3 SAW	4 SAW	CAMPRUN	TOTAL
Douglas-fir	Cruise Volume	538	1,443	199		2,180
-2%	Hidden D&B	(11)	(29)	(4)		(44)
	Total	527	1,414	195		2,136
	<i>% Total</i>	25	66	9		

SPECIES		2 SAW	3 SAW	4 SAW	CAMPRUN	STOTAL
Red alder	Cruise Volume				78	78
	Hidden D&B				(2)	(2)
	Total				76	76
	<i>% Total</i>				100	

SALE TOTALS

SPECIES	2 SAW	3 SAW	4 SAW	CAMPRUN	TOTAL (MBF)
Douglas-fir	527	1,414	195		2,136
Red alder				76	76
Total	527	1,414	195	76	2,212

CRUISE REPORT
Rutherford Road
341-12-76

1. ACREAGE CALCULATION: The Timber Sale Area is 78 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%, an average stand diameter of 16 inches, a desired sampling error (SE%) of 11% and a minimum sample size of 100 grade trees. The Sale Area was cruised in 12/07/2011 with 14 variable radius grade plots and 10 variable radius count plots. 91 trees were measured and graded. This produced an acceptable cumulative sampling error of 10%.

3. SAMPLING METHOD:

Pre-cruise plots indicated an optimal 6 to 8 grade trees per plot could be realized with a variable radius plot using a 40 BAF prism. Plots were laid out on a 4 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

a) **Volumes and Statistics**, Cruise and grown forward 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 Mark Savage.

Prepared by:

ODF Forester

Date

Reviewed by:

Eric Foucht

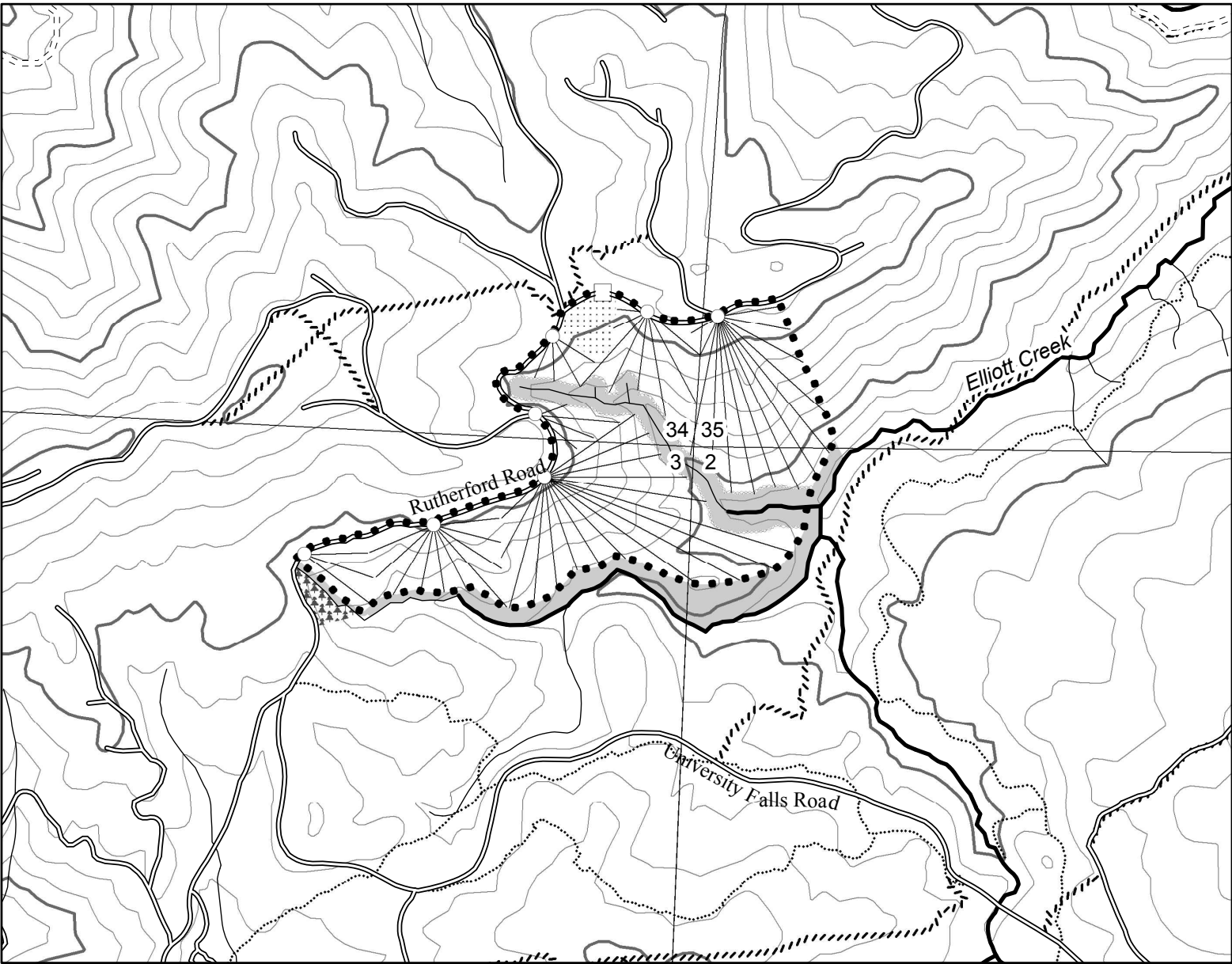
Date

TC PLOGSTVB		Log Stock Table - MBF																					
T01N R06W S02 Ty00MC				78.00		Project: DEMO		78.00										Page 1		Date 1/23/2012		Time 7:48:26AM	
Spp	S T	So Gr rt de	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	30-39	40+				
DF		2M	16	15		15	.7									15							
DF		2M	20	9		9	.4						9										
DF		2M	40	517		514	23.6					218	209	88									
DF		3M	18	11		11	.5		11														
DF		3M	24	34		34	1.6		34														
DF		3M	28	14		14	.6		14														
DF		3M	30	6		6	.3		6														
DF		3M	32	20		20	.9		3	17													
DF		3M	34	45		45	2.1		5	40													
DF		3M	36	66		66	3.0		9	57													
DF		3M	40	1,249		1,247	57.2		15	303	410	449	70										
DF		4M	12	14		14	.6			5		9											
DF		4M	14	15		15	.7			15													
DF		4M	16	12		12	.6			12													
DF		4M	18	9		9	.4			9													
DF		4M	20	25		25	1.2			13	12												
DF		4M	22	34		34	1.6			34													
DF		4M	24	44		44	2.0		8	36													
DF		4M	26	20		20	.9			20													
DF		4M	28	8		8	.4			8													
DF		4M	30	9		9	.4			9													
DF		4M	40	9		9	.4		6	3													
DF		Totals		2,184		2,180	96.5		111	581	423	457	288	217	88	15							
RA		CR	16	10		10	12.2						10										
RA		CR	18	3		3	3.6			3													
RA		CR	20	15		15	19.0			4			11										
RA		CR	22	5		5	6.1			5													
RA		CR	40	46		46	59.1				14	32											
RA		Totals		78		78	3.5			11	14	32	21										
Total		All Species		2,263		2,259	100.0		111	592	437	489	309	217	88	15							

TC PSTATS				PROJECT STATISTICS				PAGE	1		
				PROJECT	DEMO			DATE	1/23/2012		
TWP	RGE	SC	TRACT	TYPE	ACRES		PLOTS	TREES	CuFt	BdFt	
01N	06	02	A1	00MC	78.00		25	144	S	W	
				TREES	ESTIMATED		PERCENT				
				PER PLOT	TOTAL		SAMPLE				
				PLOTS	TREES	TREES	TREES				
TOTAL			25	144	5.8						
CRUISE			14	91	6.5		18,317		.5		
DBH COUNT											
REFOREST											
COUNT			10	53	5.3						
BLANKS			1								
100 %											
STAND SUMMARY											
SAMPLE			TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET
TREES			/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC
DOUG FIR			83	211.8	13.6	90	57.8	212.8	28,005	27,952	6,673
SN			5	18.8	10.5	61	3.5	11.2			
R ALDER			3	4.3	16.6	107	1.6	6.4	1,004	1,004	227
TOTAL			91	234.8	13.4	88	62.9	230.4	29,009	28,956	6,900
CONFIDENCE LIMITS OF THE SAMPLE											
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR											
CL	68.1	COEFF		SAMPLE TREES - BF				# OF TREES REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5 10		15		
DOUG FIR			76.2	8.4	189	206	223				
SN											
R ALDER			23.2	16.1	201	240	279				
TOTAL			80.5	8.4	179	196	212	259	65	29	
CL	68.1	COEFF		TREES/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5 10		15		
DOUG FIR			60.2	12.3	186	212	238				
SN			261.3	53.3	9	19	29				
R ALDER			291.5	59.4	2	4	7				
TOTAL			54.6	11.1	209	235	261	124	31	14	
CL	68.1	COEFF		BASAL AREA/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5 10		15		
DOUG FIR			49.9	10.2	191	213	234				
SN			263.3	53.7	5	11	17				
R ALDER			295.4	60.2	3	6	10				
TOTAL			45.5	9.3	209	230	252	86	21	10	
CL	68.1	COEFF		NET BF/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5 10		15		
DOUG FIR			51.7	10.5	25,007	27,952	30,897				
SN											
R ALDER			303.5	61.9	383	1,004	1,625				
TOTAL			50.8	10.4	25,954	28,956	31,957	107	27	12	
CL	68.1	COEFF		NET CUFT FT/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5 10		15		
DOUG FIR			50.8	10.3	5,982	6,673	7,363				
SN											
R ALDER			297.4	60.6	89	227	365				
TOTAL			49.7	10.1	6,200	6,900	7,600	103	26	11	

TC		PSPCSTGR		Species, Sort Grade - Board Foot Volumes (Project)																	
<div>T01N R06W S02 Ty00MC78.00</div>				Project:		DEMO												Page		1	
				Acres		78.00												Date		1/23/2012	
																		Time		7:48:27AM	
S Spp	So T	Gr rt ad	%	Bd. Ft. per Acre			Total Net MBF	Percent of Net Board Foot Volume								Average Log				Logs	
			Net BdFt					Def%	Gross	Net	Log Scale Dia.				Log Length				Ln Ft	Dia In	Bd Ft
			4-5	6-11	12-16	17+					12-20	21-30	31-35	36-99							
DF		CU														9	10		0.00	16.2	
DF		2M	24	.5	6,931	6,899	538			86	14	4			96	39	14	274	1.59	25.2	
DF		3M	66	.1	18,517	18,496	1,443	7	88	5		1	4	4	91	37	7	84	0.56	219.1	
DF		4M	10		2,557	2,557	199	7	93			38	58		4	21	6	27	0.31	96.1	
DF Totals			97	.2	28,005	27,952	2,180	5	67	24	3	5	8	3	84	31	8	78	0.59	356.6	
RA		CR	100		1,004	1,004	78		73	27		35	6		59	27	9	89	0.74	11.3	
RA Totals			3		1,004	1,004	78		73	27		35	6		59	27	9	89	0.74	11.3	
Totals				0.2	29,009	28,956	2,259	5	67	25	3	6	8	3	83	31	8	79	0.60	367.9	

TC		PSTNDSUM		Stand Table Summary									Page		1	
													Date:		1/23/2012	
T01N R06W S02 Ty00MC					78.00		Project		DEMO		Time:		7:48:28AM			
							Acres		78.00		Grown Year:					
S Sp	T	Tot			Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	T o t a l s			
		DBH	Sample Trees	FF 16'				Av Ht	Net Cu.Ft.				Net Bd.Ft.	Tons	Cunits	MBF
DF		8	5	88	73	36.725	12.82	36.72	4.9	28.0	5.17	182	1,028	404	142	80
DF		9	2	85	66	11.607	5.13	11.61	7.6	30.0	2.51	88	348	196	69	27
DF		10	5	88	82	23.504	12.82	23.50	12.5	56.0	8.39	294	1,316	654	230	103
DF		11	5	87	79	19.425	12.82	27.19	11.1	47.1	8.63	303	1,282	673	236	100
DF		12	6	90	85	19.586	15.38	32.64	13.4	56.0	12.44	437	1,828	970	341	143
DF		13	7	89	90	19.471	17.95	38.94	13.1	53.6	14.56	511	2,086	1,135	398	163
DF		14	6	88	101	14.390	15.38	28.78	17.9	76.7	14.65	514	2,206	1,142	401	172
DF		15	6	87	100	12.535	15.38	25.07	21.0	88.3	15.02	527	2,215	1,172	411	173
DF		16	9	86	108	16.526	23.07	33.05	25.2	105.6	23.77	834	3,489	1,854	651	272
DF		17	3	84	114	4.880	7.69	11.39	24.2	98.6	7.86	276	1,122	613	215	88
DF		18	8	87	113	11.607	20.51	23.21	32.6	130.0	21.55	756	3,018	1,681	590	235
DF		19	5	86	106	6.511	12.82	14.32	33.2	124.5	13.54	475	1,784	1,056	371	139
DF		20	2	86	94	2.350	5.13	3.53	41.6	156.7	4.18	147	552	326	114	43
DF		21	5	87	115	5.330	12.82	11.73	41.1	169.1	13.74	482	1,983	1,071	376	155
DF		22	2	87	122	1.942	5.13	5.83	37.0	166.7	6.15	216	971	480	168	76
DF		23	2	86	115	1.777	5.13	4.44	46.4	186.0	5.88	206	826	458	161	64
DF		24	1	82	30	.816	2.56	.82	39.5	140.0	.92	32	114	72	25	9
DF		25	1	91	125	.752	2.56	2.26	52.1	246.7	3.35	118	557	261	92	43
DF		26	2	85	114	1.391	5.13	3.48	53.1	232.0	5.26	184	807	410	144	63
DF		27	1	84	128	.645	2.56	1.93	47.1	216.7	2.60	91	419	203	71	33
DF		Totals	83	87	90	211.769	212.80	340.45	19.6	82.1	190.17	6,673	27,952	14,833	5,205	2,180
RA		16	2	83	105	3.056	4.27	7.64	19.4	84.0	4.07	148	642	317	115	50
RA		18	1	82	112	1.207	2.13	3.62	21.9	100.0	2.18	79	362	170	62	28
RA		Totals	3	83	107	4.263	6.40	11.26	20.2	89.1	6.25	227	1,004	487	177	78
SN		8	1		17	6.417	2.24									
SN		9	1		17	5.070	2.24									
SN		12	2		17	5.704	4.48									
SN		16	1		17	1.604	2.24									
SN		Totals	5		17	18.796	11.20									
Totals			91	87	84	234.827	230.40	351.71	19.6	82.3	196.42	6,900	28,956	15,321	5,382	2,259



LOGGING PLAN

LEGEND

- • • Timber Sale Boundary
- Surfaced Road
- - - Unsurfaced Road
- Type F Stream
- Type N Stream
- Stream Buffer
- - - Posted Stream Buffer
- Cable Landing
- Tractor Landing
- ▨ Tractor Yarding Area
- ◁ Cable Yarding Area
- ▨ Green Tree Retention Area
- Section Lines
- 400 Foot Contour Band
- 80 Foot Contour Band

OF TIMBER SALE CONTRACT NO. 341-12-76
 RUTHERFORD ROAD
 PORTIONS OF SECTIONS 34, & 35, T02N, R06W, W.M
 AND SECTIONS 2, & 3, T01N, R06W, W.M
 TILLAMOOK COUNTY, OREGON

Forest Grove District GIS
 January 2012

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



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



APPROXIMATE NET ACRES

CABLE	TRACTOR
75	3