"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Clear Creek Alley
Sale 341-13-39

District: **Forest Grove** **Date:** **December 11, 2012**

cost summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	$706,062.49	$16,561.92	$722,624.41
		Project Work:	$(34,000.00)
		Advertised Value:	$688,624.41

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Clear Creek Alley
Sale 341-13-39

District: **Forest Grove** **Date:** **December 11, 2012**

timber description

Location: Portions of Sections 24 and 25, T4N, R6W, W.M., Clatsop County, Oregon and portions of Section 30, T4N, R5W, W.M., Columbia County, Oregon.

Stand Stocking: 20%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	19	0	98
Alder (Red)	18	0	98

Volume by Grade	2S	3S	4S	Camprun	Total
Douglas - Fir	1,396	576	109	0	2,081
Alder (Red)	0	0	0	48	48
Total	1,396	576	109	48	2,129

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District: Forest Grove **Date: December 11, 2012**

comments:

Pond Values Used: 3rd Quarter Calendar Year 2012.

Western Hemlock and Other Conifers Stumpage Price = Pond Value minus Logging Cost:
$242.92/MBF = $420/MBF - $177.08/MBF

Western redcedar and Other Cedars Stumpage Price = Pond Value minus Logging Cost:
$797.92/MBF = $975/MBF - $177.08/MBF

SCALING COST ALLOWANCE = $5.00/MBF

FUEL COST ALLOWANCE = $4.00/Gallon

HAULING COST ALLOWANCE
Hauling costs equivalent to $780 daily truck cost.

Other Costs (with Profit & Risk to be added):
Brand and Paint: 2,129 MBF @ $1/MBF = $2,129
Non Project Road: 676 feet @ $2.00 per foot = $1,352
Total Other Costs (with Profit & Risk to be added) = $3,481

Other Costs (No Profit & Risk added):
Block/Waterbar Skid Roads: 10 Hours @ $110/hour = $1,100
Pile Landing Slash and Sort Firewood: 10 hours @ $110/hour = $1,100
Slash Treatment: 25 acres @ $150/acre = $3,750
Equipment Cleaning: 4 machines @1,000/machine = $4,000
TOTAL Other Costs (No Profit & Risk added) = $9,950

ROAD MAINTENANCE
Move-in: $2,000
General Road Maintenance: 8.7 miles x $1,000/mile = $8,700
TOTAL: $10,700 / 2,129 MBF = $5.03/MBF

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logging conditions

combination#: **1**

	Douglas - Fir	45.00%	
	Alder (Red)	45.00%	
yarding distance:	Medium (800 ft)	**downhill yarding:**	No
logging system:	Cable: Medium Tower >40 - <70	**Process**:	Stroke Delimber
tree size:	Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF		
loads / day:	8.0	**bd. ft / load:**	4,600
cost / mbf:	$90.87		

machines:
Log Loader (A)
Stroke Delimber (A)
Tower Yarder (Medium)

combination#: **2**

	Douglas - Fir	55.00%	
	Alder (Red)	55.00%	
yarding distance:	Short (400 ft)	**downhill yarding:**	No
logging system:	Shovel	**Process**:	Stroke Delimber
tree size:	Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF		
loads / day:	8.0	**bd. ft / load:**	4,600
cost / mbf:	$39.08		

machines:
Stroke Delimber (B)

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Clear Creek Alley
Sale 341-13-39

District: **Forest Grove** **Date:** **December 11, 2012**

logging costs

Operating Seasons:	2.00	**Profit Risk:**	10.00%
Project Costs:	$34,000.00	**Other Costs (P/R):**	$3,481.00
Slash Disposal:	$0.00	**Other Costs:**	$9,950.00

Miles of Road

Road Maintenance: $5.03

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	4.6
Alder (Red)	$0.00	2.0	3.8

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Clear Creek Alley
Sale 341-13-39

District: **Forest Grove** **Date:** **December 11, 2012**

logging costs breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
Douglas - Fir									
$62.39	$5.13	$4.12	$78.62	$1.64	$15.19	$0.00	$5.00	$4.67	$176.76
Alder (Red)									
$62.39	$5.13	$4.12	$95.17	$1.64	$16.84	$0.00	$5.00	$4.67	$194.96

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	$0.00	$516.05	$339.29	$0.00
Alder (Red)	$0.00	$540.00	$345.04	$0.00

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Clear Creek Alley
Sale 341-13-39

District: **Forest Grove** **Date:** **December 11, 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	2,081	$339.29	$706,062.49
Alder (Red)	48	$345.04	$16,561.92

Gross Timber Sale Value

Recovery: $722,624.41

Prepared by: Eric Foucht **Phone:** 503-359-7473

TIMBER SALE SUMMARY
Clear Creek Alley
341-13-39

1. Location: Portions of Sections 24 and 25, T4N, R6W, W.M., Clatstop County, Oregon and Portions of Section 30, T4N, R5W, W.M., Columbia County, Oregon.

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

3. Revenue Distribution: 100% BOF, Columbia County (68%) and Clatsop County (32%).

4. Sale Acreage: Approximately 95 acres of modified clearcut. Acres were determined using ESRI Arcmap GIS software.

5. Cruise: The Timber Sale was cruised by Stand Level Inventory cruisers using variable radius plots. Volume estimates and plot data statistics were computed using SuperACE timber cruise software. For more information see the Cruise Report.

6. Timber Description: The Sale Area is 60 year old stand of Douglas-fir with minor amounts of, western hemlock, bigleaf maple and red alder. The Douglas-fir DBH averages approximately 19 inches. The average net volume per acre is approximately 23 MBF.

7. Topography and Logging Method: This sale area is 55% ground based yarding and 45% cable yarding. The maximum cable yarding distance is approximately 1200 feet horizontal distance, with an average yarding distance of about 460 feet. Slopes range from 20% to 45%.

8. Access: Roads to the Timber Sale Area are open all-weather roads. Two roads into portions of the Timber Sale Area are currently unsurfaced. From Forest Grove travel north and west on Highways 47 and 26 for approximately 28 miles to the North Fork Wolf Creek Road near milepost 35. Turn right and continue north 2.8 miles to the Nofo Road. Turn right and proceed west 2.2 miles to the road junction at Project Point D. Turn right and continue .8 miles to the south side of the Timber Sale Area. The west side of the Timber Sale Area is 2.2 miles north of Point D on the Nofo Road.

9. Projects:

Project No. 1: Construct .3 miles, improve 1.82 miles, and vacate.02 miles of road.	$9,044.80
Project No. 2: .73 miles of road surfacing:	$17,542.42
Move in and equipment cleaning:	$7,372.47
Total Credit for all Projects (rounded)	$34,000.00

10. Other Costs:

Other Costs (with Profit and Risk)	
Brand and Paint: 2,129 MBF @ $1.00/MBF	$2,129.00
Non Project Road: 676 feet @ $1.00 per foot	$676.00
Total Other Costs with (P/R)	$2,805.00
Other Costs (no P/R)	
Blocking/Waterbarring skid roads: 10 Hours @ $110.00/hour	$1,100.00
Piling Landing Slash and firewood sort: 10hours @ $110.00/hour	$1,100.00
Slash Treatment: 25 acres @ $150.00/ acre	$3,750.00
Equipment Cleaning: 4 machines @1000/machine	$4,000.00
Total Other Costs (no P/R)	$9,950.00
Total Other Costs	$12,755.00

PROJECT COST SUMMARY SHEET

Timber Sale: Clear Creek Alley

Sale Number: 341-13-39

PROJECT NO. 1: ROAD CONSTRUCTION, IMPROVEMENT AND VACATIN

CONSTRUCTION

Road Segment	Length	Cost
B to C	16+00	$4,516.04
	16+00 stations	
	0.30 miles	

SUBTOTAL CONSTRUCTION $4,516.04

IMPROVEMENT

Road Segment	Length	Cost
A to B	22+50	$1,145.75
D to E	63+40	$2,599.58
E to F	10+30	$495.61
	96+20 stations	
	1.82 miles	

SUBTOTAL IMPROVEMENT $4,240.94

VACATE

Road Segment	Length	Cost
F to G	1+30	$287.83
	1+30 stations	
	0.02 miles	

SUBTOTAL VACATE $287.83

TOTAL PROJECT NO. 1 COST = **$9,044.80**

PROJECT NO. 2: SURFACING

Road Segment	Amount	Type	Cost
A to B	1,007 cy	4" - 0	$7,794.18
B to C	934 cy	4" - 0	$7,808.24
D to E	250 cy	4" - 0	$1,940.00
Total			
	2,191 cy	4" - 0	

TOTAL PROJECT NO. 2 COST = **$17,542.42**

MOVE IN & EQUIPMENT CLEANING **$7,372.47**

TOTAL ALL PROJECTS **$33,959.69**

TOTAL CREDITS **$34,000.00**

SUMMARY OF CONSTRUCTION COST

Timber Sale: **Clear Creek Alley** Timber Sale No. : 341-13-39

Road Segment: **A to B** Improvement: 22+50 stations

0.43 miles

PROJECT NO. 1

EXCAVATION

Clearing and Grubbing (Scatter)						$500.00
Grade, Ditch, and Roll	22.50	sta @	$28.70	per sta =		$645.75

PROJECT NO. 1 TOTAL COST = $1,145.75

PROJECT NO. 2:

SURFACING	8	" deep =	42 cy/sta				
A to B	945	cy of	4" - 0	@	$7.74	per cy =	$7,314.30
Turnouts (3)	42	cy of	4" - 0	@	$7.74	per cy =	$325.08
Junction	20	cy of	4" - 0	@	$7.74	per cy =	$154.80
Total =	1007	cy of	4" - 0				

PROJECT NO. 2 TOTAL COST = $7,794.18

Additional Equipment Cleaning $2,000.00

MOVE IN & EQUIPMENT CLEANING TOTAL COST = $2,000.00

TOTAL COST = $10,939.93

SUMMARY OF CONSTRUCTION COST

Timber Sale: **Clear Creek Alley** Timber Sale No. : 341-13-39

Road Segment: **B to C** Construction: 16+00 stations

0.30 miles

PROJECT NO. 1

EXCAVATION

Clearing and Grubbing (Scatter)	1.84	acres @	$980.00	per acre =	$1,799.82		
Balanced Road Construction	15.50	sta @	$90.00	per sta =	$1,395.00		
Drift	0.50	sta @	$150.00	per sta =	$75.00		
Roadside Landing	2	ea @	$150.00	per ea =	$300.00		
Landing	1	ea @	$285.00	per ea =	$285.00		
Grass seed and fertilize areas of disturbed soil.	0.92	acres @	$220.00	per acre =	$202.02		
Grade, Ditch, and Roll	16.00	sta @	$28.70	per sta =	$459.20		
				TOTAL	EXCAVATION COSTS=		$4,516.04

PROJECT NO. 1 TOTAL COST = $4,516.04

PROJECT NO. 2:

SURFACING	8	" deep =	42 cy/sta				
B to C	672	cy of	4" - 0	@	$8.36	per cy =	$5,617.92
Turnouts (2)	28	cy of	4" - 0	@	$8.36	per cy =	$234.08
Turnaround (1)	14	cy of	4" - 0	@	$8.36	per cy =	$117.04
Roadside Landing	100	cy of	3" - 0	@	$8.36	per cy =	$836.00
Landing (1)	120	cy of	4" - 0	@	$8.36	per cy =	$1,003.20
Total =	934	cy of	4" - 0				

PROJECT NO. 2 TOTAL COST = $7,808.24

TOTAL COST = $12,324.28

SUMMARY OF CONSTRUCTION COST

Timber Sale: **Clear Creek Alley** Timber Sale No. : 341-13-39

Road Segment: **D to E** Improvement: 63+40 stations

1.20 miles

PROJECT NO. 1

EXCAVATION

Pull Ditch and Endhaul Waste Material	3.00	sta @	$60.00	per sta =	$180.00		
Road Brushing	0.50	mile @	$600.00	per mi =	$300.00		
Roadside Landing	2	ea @	$150.00	per ea =	$300.00		
Grade, Ditch, and Roll	63.40	sta @	$28.70	per sta =	$1,819.58		
				TOTAL	EXCAVATION COSTS=		$2,599.58

PROJECT NO. 1 TOTAL COST = $2,599.58

PROJECT NO. 2:

SURFACING

D to E	150	cy of	4" - 0	@	$7.76	per cy =	$1,164.00
Roadside Landing	100	cy of	4" - 0	@	$7.76	per cy =	$776.00
Total =	250	cy of	4" - 0				

PROJECT NO. 2 TOTAL COST = $1,940.00

TOTAL COST = $4,539.58

SUMMARY OF CONSTRUCTION COST

Timber Sale: **Clear Creek Alley** Timber Sale No. : 341-13-39

Road Segment: **E to F** Improvement: 10+30 stations

0.20 miles

PROJECT NO. 1

EXCAVATION

Improve Landing	1	ea @	$200.00	per ea =	$200.00	
Grade, Ditch, and Roll	10.30	sta @	$28.70	per sta =	$295.61	
				TOTAL	EXCAVATION COSTS=	$495.61

PROJECT NO. 1 TOTAL COST = $495.61

TOTAL COST = $495.61

SUMMARY OF CONSTRUCTION COST

Timber Sale: **Clear Creek Alley** Timber Sale No. : 341-13-39

Road Segment: **F to G** VACATE: 1+30 stations

0.02 miles

PROJECT NO. 1

VACATING

Construct Tank Trap	2.00	each @	$50.00	per each =	$100.00
Rip Road Surface	1.30	sta @	$50.00	per sta=	$65.00
Grass seed and fertilize areas of disturbed soil.	0.15	acres @	$220.00	per acre =	$32.83
Mulch areas of disturbed soil.	0.15	acres @	$600.00	per acre =	$90.00

PROJECT NO. 1 TOTAL COST = $287.83

TOTAL COST = $287.83

Move-In & Equipment Cleaning

Timber Sale: Clear Creek Ally
Sale Number: 341-13-39

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

No.	EQUIPMENT DESCRIPTION	Equipment Cleaning	Base Cost	Woods Cost	Pilot Cars	Within Area Move ($/mile)	Begin Mileage	End Mileage	Total Miles	Within Area Cost	Total Cost
1	Graders		$300.00	$128.58		$3.65	0.0	0.0	0.0	$0.00	$428.58
1	Loader (Med. & Large)		$414.39	$208.48	1	$9.00	0.0	0.0	0.0	$0.00	$622.87
1	Rollers (smooth/grid) & Compactors		$308.59	$155.25		$5.00	0.0	0.0	0.0	$0.00	$463.84
1	Excavators (Large)	$1,000	$466.14	$230.66	1	$44.80	0.0	0.0	0.0	$0.00	$1,696.80
1	Tractor (D8)	$1,000	$473.80	$217.52	2	$15.10	0.0	0.0	0.0	$0.00	$1,691.32
2	Dump Truck (10 cy +)		$233.34	$100.00		$2.85	0.0	0.0	0.0	$0.00	$333.34
1	Water Truck (1500 Gal)		$95.00	$40.72		$2.85	0.0	0.0	0.0	$0.00	$135.72
						TOTAL MOVE-IN COSTS:					$5,372.47

VOLUME SUMMARY
(Shown in MBF)
Clear Creek Alley
Sale No. 341-13-39
November, 2012

Sale Area: MC(95 ACRES)

SPECIES		2 SAW	3 SAW	4 SAW	TOTAL
Douglas-fir	Cruise Volume	1,424	588	111	2,123
	Hidden D&B (2%)	(28)	(12)	(2)	(42)
	NET TOTAL	1,396	576	109	2,081
	% of Total	67	28	5	

SPECIES		2 SAW	3 SAW	4 SAW	CR	TOTAL
Red alder and other hardwoods	Cruise Volume	0	0	0	49	49
	Hidden D&B (2%)	()	()	()	(1)	(1)
	NET TOTAL	0	0	0	48	48
	% of Total	0	0	0	100	

SALE TOTAL

SPECIES	2 SAW	3 SAW	4 SAW	CR	TOTAL
Douglas-fir	1,396	576	109		2,081
Red Alder & hdwds				48	48
Total	1,396	576	109	48	2,129

CRUISE REPORT
Clear Creek Alley
341-13-39

1. LOCATION Portions of Sections 24 and 25, T4N, R6W, W.M., Clatstop County, Oregon and Portions of Section 30, T4N, R5W, W.M., Columbia County, Oregon.

2. SAMPLING METHOD:
The Sale Area was/were cruised in 2004 with 44 variable radius plots using 25, 33.61, and 40 BAF prisms. Plots were laid out at 2 chain intervals on cruise lines spaced 5 chains apart. 195 trees were measured and graded. The plot data was grown forward to August, 2012.

3. CRUISE RESULTS
The Super Ace-generated cruise statistics report indicates that the Coefficient of Variation is 53%. The cumulative sampling error of the cruise was 7% on the basal area and 8% on the Board Foot Volume. These numbers meet or exceed the standards for ODF cruises on sales of this type. No additional plots were necessary.

4. TREE MEASUREMENT AND GRADING:

All 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 estimated to be 88% 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 in 2004 by SLI contract cruisers.

Prepared by: _____

ODF Forester Date

TC TSTATS

STATISTICS

PAGE 1

PROJECT CLRCKALY

DATE 11/2/2012

TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
04N	**05W**	**30**	**001**	**A1**	95.00	44	195	S	W

	PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES
TOTAL	44	195	4.4		
CRUISE	44	195	4.4	7,428	2.6
DBH COUNT					
REFOREST					
COUNT					
BLANKS					
100 %					

STAND SUMMARY

	SAMPLE TREES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
DOUG FIR-T	184	68.8	18.5	98	29.8	128.2	22,346	22,346	5,042	5,042
WHEMLOCK-L	5	2.9	15.2	81	0.9	3.6	467	467	120	120
BL MAPLE-T	4	5.5	10.6	63	1.0	3.3	302	302	80	80
R ALDER-T	2	1.0	17.5	81	0.4	1.7	213	213	57	57
TOTAL	*195*	*78.2*	*17.9*	*94*	*32.3*	*136.8*	*23,329*	*23,329*	*5,299*	*5,299*

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-T	70.3	5.2	547	577	607			
WHEMLOCK-L	67.6	33.6	131	198	265			
BL MAPLE-T	63.5	36.3	49	78	106			
R ALDER-T	66.7	62.5	99	265	431			
TOTAL	*73.4*	*5.3*	*525*	*554*	*583*	*215*	*54*	*24*

CL: 68.1 % COEFF **SAMPLE TREES - CF** # OF TREES REQ. INF. POP.

SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DOUG FIR-T	62.5	4.6	120	126	132			
WHEMLOCK-L	64.0	31.8	35	51	67			
BL MAPLE-T	71.4	40.8	13	21	30			
R ALDER-T	70.4	65.9	24	72	119			
TOTAL	*65.3*	*4.7*	*116*	*121*	*127*	*170*	*43*	*19*

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-T	67.2	10.1	62	69	76			
WHEMLOCK-L	338.9	51.1	1	3	4			
BL MAPLE-T	477.2	71.9	2	5	9			
R ALDER-T	505.2	76.1	0	1	2			
TOTAL	*62.2*	*9.4*	*71*	*78*	*86*	*154*	*39*	*17*

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-T	50.9	7.7	118	128	138			
WHEMLOCK-L	347.7	52.4	2	4	6			
BL MAPLE-T	411.9	62.0	1	3	5			
R ALDER-T	465.4	70.1	1	2	3			
TOTAL	*48.4*	*7.3*	*127*	*137*	*147*	*93*	*23*	*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-T	53.6	8.1	20,543	22,346	24,149			
WHEMLOCK-L	384.4	57.9	197	467	738			
BL MAPLE-T	392.6	59.1	124	302	481			
R ALDER-T	464.4	70.0	64	213	362			
TOTAL	*52.8*	*8.0*	*21,473*	*23,329*	*25,184*	*111*	*28*	*12*

STATISTICS

PROJECT **CLRCKALY**

DATE 11/2/2012

TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt
04N	**05W**	**30**	**001**	**A1**	95.00	44	195	S	W

CL:	68.1 %	COEFF		**NET BF/ACRE**			# OF PLOTS REQ.		INF. POP.
SD:	1.0	VAR.	S.E.%	LOW	AVG	HIGH	5	10	15

TC TSTNDSUM

Stand Table Summary

Project **CLRCKALY**

T04N R05W S30 TA1

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
04N	05W	30	001	A1	95.00	44	195

T04N R05W S30 TA1

Date: 11/02/201

Time: 3:42:24PM

Spc	S T	DBH	Sample Trees	FF 16'	Av Ht Tot	Trees/ Acre	BA/ Acre	Logs Acre	Average Log Net Cu.Ft.	Average Log Net Bd.Ft.	Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals Tons	Totals Cunits	Totals MBF
DF	T	8	4	88	63	7.488	2.61	7.49	4.5	20.0	.97	34	150	92	32	14
DF	T	9	1	87	67	2.058	.91	2.06	8.2	40.0	.48	17	82	46	16	8
DF	T	10	1	88	70	1.042	.57	1.04	11.5	60.0	.34	12	63	32	11	6
DF	T	11	5	88	74	5.634	3.72	7.65	11.1	45.7	2.42	85	350	230	81	33
DF	T	12	8	87	89	8.150	6.40	16.30	10.8	42.4	5.01	176	691	475	167	66
DF	T	13	5	87	83	3.507	3.23	7.01	13.2	52.4	2.65	93	367	251	88	35
DF	T	14	2	88	88	1.063	1.14	2.13	16.8	70.0	1.02	36	149	97	34	14
DF	T	15	4	87	92	2.330	2.86	4.66	19.0	75.0	2.52	88	350	239	84	33
DF	T	16	6	88	94	3.002	4.19	6.00	22.9	90.9	3.92	138	546	373	131	52
DF	T	17	4	87	104	1.814	2.86	3.99	25.9	108.2	2.95	104	432	280	98	41
DF	T	18	13	88	104	5.066	8.95	12.29	26.5	103.7	9.27	325	1,274	880	309	121
DF	T	19	9	87	117	3.367	6.63	9.35	28.6	116.2	7.63	268	1,087	725	254	103
DF	T	20	10	88	106	2.873	6.27	7.92	29.4	114.3	6.65	233	905	631	222	86
DF	T	21	4	88	112	1.108	2.66	3.32	31.7	130.5	3.00	105	434	285	100	41
DF	T	22	13	87	115	3.575	9.44	10.22	38.1	169.6	11.10	389	1,734	1,054	370	165
DF	T	23	10	88	117	2.477	7.15	7.43	40.1	178.6	8.49	298	1,327	807	283	126
DF	T	24	16	88	122	3.205	10.07	9.62	44.5	196.5	12.20	428	1,889	1,159	407	179
DF	T	25	5	88	115	1.063	3.62	3.19	47.6	211.6	4.33	152	675	411	144	64
DF	T	26	15	88	118	2.630	9.70	7.68	54.1	246.3	11.84	416	1,892	1,125	395	180
DF	T	27	7	88	120	1.221	4.85	3.52	57.7	255.2	5.79	203	898	550	193	85
DF	T	28	15	88	136	2.439	10.43	7.32	68.0	327.3	14.18	498	2,395	1,347	473	228
DF	T	29	3	88	123	.563	2.58	1.69	67.2	315.7	3.24	114	533	307	108	51
DF	T	30	9	88	126	1.311	6.43	3.93	75.4	363.2	8.45	296	1,428	802	282	136
DF	T	31	2	88	137	.282	1.48	.85	85.6	429.0	2.06	72	363	196	69	34
DF	T	32	7	88	138	.948	5.30	3.01	85.6	425.5	7.34	257	1,280	697	245	122
DF	T	33	2	87	138	.191	1.14	.57	97.7	486.7	1.60	56	279	152	53	27
DF	T	34	1	87	127	.121	.76	.36	98.8	483.3	1.02	36	176	97	34	17
DF	T	35	1	87	139	.114	.76	.34	112.4	580.0	1.10	39	199	104	37	19
DF	T	37	2	88	145	.198	1.48	.59	127.0	673.3	2.15	75	400	204	72	38
DF		Totals	184	88	98	68.840	128.19	151.54	33.3	147.5	143.69	5,042	22,346	13,650	4,790	2,123
WH	L	12	1	87	69	.973	.76	1.95	9.7	40.0	.60	19	78	57	18	7
WH	L	14	1	88	65	.532	.57	1.06	12.4	40.0	.42	13	43	40	13	4
WH	L	15	1	88	92	.622	.76	1.24	22.5	90.0	.90	28	112	85	27	11
WH	L	18	1	88	93	.432	.76	.86	33.4	125.0	.92	29	108	88	27	10
WH	L	21	1	88	107	.318	.76	.95	33.0	133.3	1.01	31	127	96	30	12
WH		Totals	5	88	81	2.876	3.62	6.07	19.8	77.0	3.86	120	467	366	114	44
BM	T	8	1	87	52	2.604	.91	2.60	4.6	20.0	.32	12	52	30	11	5
BM	T	11	1	87	74	1.157	.76	2.31	8.8	35.0	.54	20	81	51	19	8
BM	T	12	1	88	71	1.157	.91	2.31	10.7	40.0	.66	25	93	62	24	9
BM	T	16	1	88	72	.547	.76	1.09	20.6	70.0	.60	23	77	57	21	7
BM		Totals	4	87	63	5.466	3.35	8.33	9.6	36.3	2.12	80	302	201	76	29
RA	T	14	1	88	81	.715	.76	1.43	18.0	70.0	.71	26	100	67	24	10
RA	T	24	1	88	82	.289	.91	.58	53.7	195.0	.85	31	113	81	29	11
RA		Totals	2	88	81	1.004	1.67	2.01	28.3	106.0	1.56	57	213	148	54	20
Totals			195	88	94	78.187	136.83	167.95	31.5	138.9	151.22	5299	23,329	14,366	5,034	2,216

T TSPCSTGR

Species, Sort Grade - Board Foot Volumes (Type)

Project: CLRCKALY

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Date 11/2/2012
Time 3:41:04PM

T04N R05W S30 TA1

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt
04N	05W	30	001	A1	95.00	44	195	S	W

T04N R05W S30 TA1

Spp	ST	Sort	Grad	% Net BdFt	Bd. Ft. per Acre Def%	Gross	Net	Total Net MBF	Percent Net Board Foot Volume: Log Scale Dia. 4-5	6-11	12-16	17+	Log Length 12-20	21-30	31-35	36-99	Average Log Ln Ft	Dia In	Bd Ft	CF/ Lf	Logs Per /Acre
DF	T		2M	67		14,994	14,994	1,424			48	52				100	40	16	413	2.11	36.3
DF	T		3M	27		6,188	6,188	588		95	5			4	6	90	38	8	106	0.73	58.5
DF	T		4M	6		1,163	1,163	111		99	1		56	41	3		18	6	21	0.34	56.7
DF T Totals				96		22,346	22,346	2,123		32	34	35	3	3	2	92	31	9	147	1.07	151.5
WH	L		2M	38		179	179	17			100					100	40	13	238	1.47	.7
WH	L		3M	54		252	252	24		100					63	37	34	8	88	0.65	2.9
WH	L		4M	8		37	37	4		100			49	51			16	6	15	0.32	2.4
WH L Totals				2		467	467	44		62	38		4	4	34	58	27	8	77	0.72	6.1
BM	T		3M	71		216	216	21		100					70	30	34	8	76	0.61	2.9
BM	T		4M	29		86	86	8		100			100				16	6	16	0.25	5.5
BM T Totals				1		302	302	29		100			29		50	22	22	7	36	0.44	8.3
RA	T		2M	48		104	104	10			100					100	40	15	360	2.18	.3
RA	T		3M	41		86	86	8		100						100	40	9	120	0.76	.7
RA	T		4M	11		23	23	2		100			62	38			21	6	23	0.47	1.0
RA T Totals				1		213	213	20		51	49		7	4		89	30	8	106	0.93	2.0
Type Totals					.0	23,329	23,329	2,216		33	34	33	3	3	3	90	31	9	139	1.03	167.9

TC TLOGSTVB

Log Stock Table - MBF

Project: CLRCKALY

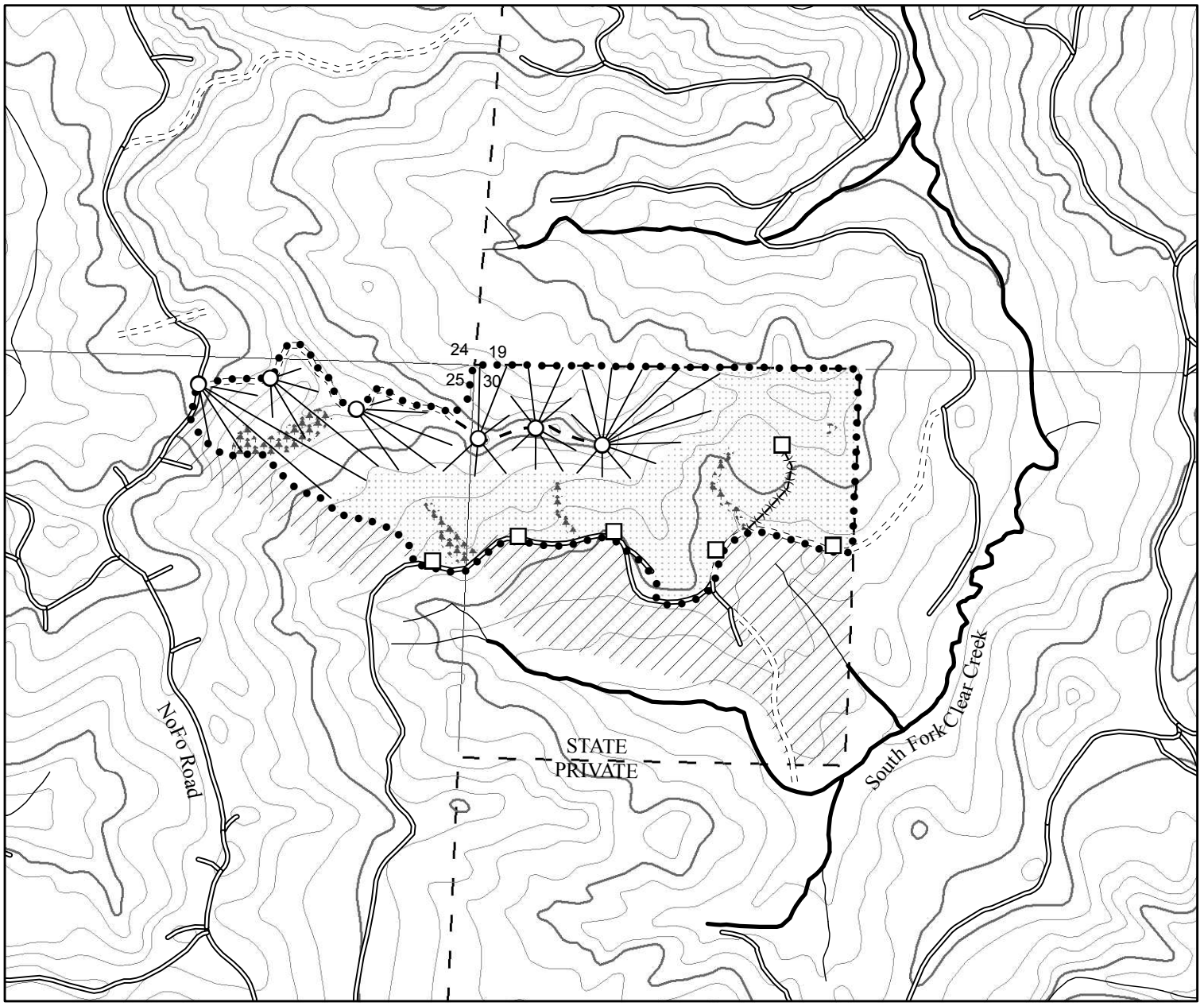
T04N R05W S30 TA1

T04N R05W S30 TA1

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
04N	05W	30	001	A1	95.00	44	195

Page 1
Date 11/2/2012
Time 3:41:04PM

Spp	S T	So Grt	Gr 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	T	2	M	40	1,424		1,424	67.1						219	273	535	350	48		
DF	T	3	M	28	3		3	.1			1	2								
DF	T	3	M	30	18		18	.9			5	13								
DF	T	3	M	32	30		30	1.4			8	21								
DF	T	3	M	34	7		7	.3			5	2								
DF	T	3	M	36	24		24	1.1			9	12	2							
DF	T	3	M	38	13		13	.6			6	7								
DF	T	3	M	40	494		494	23.3			91	129	247	7	13	7				
DF	T	4	M	12	20		20	.9			20	0								
DF	T	4	M	14	11		11	.5			10	0		1						
DF	T	4	M	16	8		8	.4			8									
DF	T	4	M	18	4		4	.2			4									
DF	T	4	M	20	19		19	.9			19									
DF	T	4	M	22	5		5	.2			5									
DF	T	4	M	24	9		9	.4			9									
DF	T	4	M	26	5		5	.2			5									
DF	T	4	M	28	6		6	.3			6									
DF	T	4	M	30	20		20	.9			20									
DF	T	4	M	34	3		3	.2			2	1								
DF		Totals			2,123		2,123	95.8			233	188	249	228	286	542	350	48		
WH	L	2	M	40	17		17	38.2						8	9					
WH	L	3	M	32	9		9	19.2			2	6								
WH	L	3	M	34	7		7	14.8				7								
WH	L	3	M	40	9		9	20.0					9							
WH	L	4	M	12	2		2	3.9			2									
WH	L	4	M	26	2		2	4.0			2									
WH		Totals			44		44	2.0			6	13	9	8	9					
BM	T	3	M	32	14		14	49.8			7	8								
BM	T	3	M	40	6		6	21.7				6								
BM	T	4	M	12	2		2	7.7			2									
BM	T	4	M	14	1		1	3.6			1									
BM	T	4	M	20	5		5	17.2			5									
BM		Totals			29		29	1.3			15	14								
RA	T	2	M	40	10		10	48.9							10					
RA	T	3	M	40	8		8	40.3				8								
RA	T	4	M	18	1		1	6.7			1									
RA	T	4	M	28	1		1	4.1			1									
RA		Totals			20		20	.9			2	8			10					
Total All Species					2,216		2,216	100.0			256	224	258	236	304	542	350	48		



LOGGING PLAN

FOR TIMBER SALE CONTRACT # 341-13-39
CLEAR CREEK ALLEY
PORTIONS OF SECTIONS 24 & 25, T4N, R6W, W.M.
CLATSOP COUNTY, OREGON
AND PORTIONS OF SECTION 30, T4N, R5W, W.M.
COLUMBIA COUNTY, OREGON

Legend

- Timber Sale Boundary
- Surfaced Road
- Unsurfaced Road
- New Construction
- Non Project Road
- Fish Stream
- Nonfish Stream
- Cable Landing
- Tractor Landing
- Cable Yarding Area
- Tractor Yarding Area
- Green Tree Retention Area
- Reforested Area
- 200 Foot Contour Band
- 40 Foot Contour Band
- ODF Ownership Boundary
- Sections

Forest Grove District GIS
Month, Year
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

0 250 500 1,000 1,500 2,000
Feet

N

APPROXIMATE NET ACRES

TRACTOR	CABLE
52	43