"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Blue Money
Sale 341-13-58

District: **Tillamook** **Date:** **September 06, 2012**

cost summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	$594,355.45	$166,464.96	$760,820.41
		Project Work:	$(143,650.00)
		Advertised Value:	$617,170.41

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District: **Tillamook** **Date:** **September 06, 2012**

timber description

Location: Portions of Sections 29 and 32, T1S, R7W, Sections 5, 6, 7 and 8, T2S, R7W, Section 1, T2S, R8W, W.M., Tillamook County, Oregon.

Stand Stocking: 80%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	13	0	95
Alder (Red)	14	0	90

Volume by Grade	10" - 11"	12"+	2S	3S	4S	6" - 7"	8" - 9"	Total
Douglas - Fir	0	0	150	2,068	1,045	0	0	3,263
Alder (Red)	75	67	0	0	0	395	171	708
Total	75	67	150	2,068	1,045	395	171	3,971

District: Tillamook **Date: September 06, 2012**

comments: Pond Values Used: 2nd Quarter Calendar Year 2012.

Western Hemlock and Other Conifers Stumpage Price = Pond Value minus Logging Cost
$135/MBF = $435/MBF - $300/MBF

Western redcedar & Other Cedars Stumpage Price = Pond Value minus Logging Cost
$650/MBF = $950/MBF - $300/MBF

Pulp (Conifer) Price = $25/MBF

SCALING COST ALLOWANCE = $5.00/MBF

FUEL COST ALLOWANCE = $4.00/Gallon

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

Other Costs (with Profit & Risk to be added):
Brand and Paint: $2/MBF x 3,971 MBF = $7,942
Snag Creation (girdling): $10/snag x 218 snags = $2,180
TOTAL Other Costs (with Profit & Risk to be added) = $10,122

Other Costs (No Profit & Risk added):
Non-Project Road: 16/sta. x $150/sta. = $2,400
Filters: 9 filters x $75/filter = $675
Trail Clearing: $40/station x 50/stations = $2,000
TOTAL Other Costs (No Profit & Risk added) = $5,075

ROAD MAINTENANCE
Maintenance Rock: ($9.00/cu. yd. x 5.3 miles x 15 cu. yd./MMBF/mile x 3.971 MMBF)/3,971 MBF = $.72/MBF

Interim Maintenance:
2 Gradings - $250/Mile x 5.3 miles x 2 grading/3971 MBF = $.67/MBF
Vibratory Roller: ((110 stations x $18/ station) + $111 move-in) / 3,971 MBF = $.53/MBF
Final Maintenance:
Grading - $500/Mile x 5.3 miles x 1 grading/3971 MBF = $.67/MBF

TOTAL Maintenance Cost = $2.59/MBF

District: **Tillamook** **Date:** **September 06, 2012**

logging conditions

combination#: **1**
Douglas - Fir 29.75%
Alder (Red) 32.09%
yarding distance: Long (1,500 ft) **downhill yarding:** No
logging system: Cable: Medium Tower >40 - <70 **Process**: Stroke Delimber
tree size: Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF
loads / day: 3.0 **bd. ft / load:** 3,700
cost / mbf: $301.27

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

combination#: **2**
Douglas - Fir 35.00%
Alder (Red) 35.00%
yarding distance: Medium (800 ft) **downhill yarding:** No
logging system: Cable: Small Tower <=40 **Process**: Stroke Delimber
tree size: Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF
loads / day: 4.0 **bd. ft / load:** 3,700
cost / mbf: $191.50

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

combination#: **3**
Douglas - Fir 35.25%
Alder (Red) 32.91%
yarding distance: Short (400 ft) **downhill yarding:** No
logging system: Shovel **Process**: Stroke Delimber
tree size: Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF
loads / day: 5.0 **bd. ft / load:** 3,700
cost / mbf: $77.74

machines:
Stroke Delimber (B)

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logging costs

Operating Seasons:	2.00	**Profit Risk:**	10.00%
Project Costs:	$143,650.00	**Other Costs (P/R):**	$10,122.00
Slash Disposal:	$0.00	**Other Costs:**	$5,075.00

Miles of Road

Road Maintenance: $2.59

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	3.5
Western Hemlock / Fir	$0.00	3.0	3.5
Alder (Red)	$0.00	3.0	3.0

"STEWARDSHIP IN FORESTRY"

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District: **Tillamook** **Date:** **September 06, 2012**

logging costs breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
Douglas - Fir									
$184.06	$2.72	$2.21	$106.36	$2.55	$29.79	$0.00	$5.00	$1.28	$333.97
Alder (Red)									
$189.29	$2.85	$2.21	$86.67	$2.55	$28.36	$0.00	$5.00	$1.28	$318.21

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	$0.00	$516.12	$182.15	$0.00
Alder (Red)	$0.00	$553.33	$235.12	$0.00

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District: **Tillamook** **Date:** **September 06, 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	3,263	$182.15	$594,355.45
Alder (Red)	708	$235.12	$166,464.96

Gross Timber Sale Value

Recovery: $760,820.41

Prepared by: David Luttrell **Phone:** 503-815-7025

PROJECT SUMMARY SHEET

Sale: Blue Money

CONSTRUCTION

Point	C to D	18+30	stations =	$5,649.46
Point	E to F	8+50	stations =	$2,080.30
Point	G to H	5+20	stations =	$2,536.84
Point	I to J	9+20	stations =	$4,425.23
Point	K to L	23+30	stations =	$35,333.46
Point	M to N	4+50	stations =	$5,546.30
Point	O to P	39+30	stations =	$45,304.36
Point	Q to R	10+20	stations =	$11,047.44
			SUBTOTAL CONSTRUCTION	**$111,923.39**

IMPROVEMENT

Point	A to B	47+20	stations =	$2,663.49
Point	I to J	30+60	stations =	$7,279.23
Point	S to T	1+50	stations =	$1,858.30
Point	U to V	8+70	stations =	$5,007.61
			SUBTOTAL IMPROVEMENT	**$16,808.63**

RECONSTRUCTION

Point	A to B	24+60	stations =	$2,824.44
			SUBTOTAL RECONSTRUCTION	**$2,824.44**

SPECIAL PROJECTS

Brush	11.3	miles of road		$9,040.00
			SUBTOTAL SPECIAL PROJECTS	**$9,040.00**

MOVE IN **$3,053.54**

GRAND TOTAL **$143,650.00**

SUMMARY OF CONSTRUCTION COST

Sale: **Blue Money** Road: **A to B**

Construction -	0+00	stations	Improvement -	47+20	stations	Reconstruction -	24+60	stations
	0.00	miles		0.89	miles		0.47	miles

RECONSTRUCTION: CLEARING AND GRUBBING -										
Widening					0.022	acres @	$660.00	per acre =	$14.52	
Scattering					1.190	acres @	$980.00	per acre =	$1,166.20	
								TOTAL CLEARING AND GRUBBING		**$1,180.72**
RECONSTRUCTION: EXCAVATION -										
Widening					95	cy. @	$1.40	per c.y.=	$133.00	
								TOTAL EXCAVATION		**$133.00**
RECONSTRUCTION: ENDHAUL -										
Widening	47+70	to	48+40		95	cy. @	$1.04	per c.y.=	$98.80	
Spread & compact					95	cy. @	$0.25	per c.y.=	$23.75	
								TOTAL ENDHAUL		**$122.55**
ROCK										
47+20 to	48+20		100	cy. of	Crushed	@	$11.73	per c.y.=	$1,173.00	
Spot Rock	0+00 - 34+50		100	cy. of	Crushed	@	$2.43	per c.y.=	$243.00	
								TOTAL ROCK		**$1,416.00**
SPECIAL PROJECTS										
Construct waste areas -					1.00	hours @	$130.00	per hour	$130.00	
Construct landing @ 71+80 -					1.00	@	$200.00	each	$200.00	
Grade and shape road -					71.80	stations @	$15.50	per station	$1,112.90	
Construct turn around -					1.00	@	$75.00	each	$75.00	
Roll subgrade w/ vibratory roller -					71.80	stations @	$13.20	per station	$947.76	
Grass seed and fertilize -					0.62	acres @	$220.00	per acre	$136.40	
Mulching -					0.056	acres @	$600.00	per acre	$33.60	
								TOTAL SPECIAL PROJECTS		**$2,635.66**
								GRAND TOTAL		**$5,487.93**

SUMMARY OF CONSTRUCTION COST

Sale: **Blue Money** Road: **C to D**

Construction -	18+30	stations	Improvement -	0+00	stations	Reconstruction -	0+00	stations
	0.35	miles		0.00	miles		0.00	miles

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

Station	to	Station	Avg. Sideslope	Avg. Dist. To W.A. (mi.)	Outslope/Ditch	Cost per Station			
0+00		0+60	40%		Outslope	$243	=	$145.80	
0+60		2+70	20%		Outslope	$139	=	$291.90	
2+70		4+00	40%		Outslope	$243	=	$315.90	
4+00		5+50	35%		Outslope	$191	=	$286.50	
5+50		7+80	20%		Outslope	$139	=	$319.70	
7+80		8+60	50%		Outslope	$459	=	$367.20	
8+60		10+60	35%		Outslope	$191	=	$382.00	
10+60		12+20	25%		Outslope	$165	=	$264.00	
12+20		18+30	15%		Outslope	$107	=	$652.70	
								TOTAL	**$3,025.70**

ROCK

0+00	to	1+00	100	cy. of	Crushed	@	$11.53	per c.y.=	$1,153.00	
Junction Rock		0+00	20	cy. of	Crushed	@	$11.53	per c.y.=	$230.60	
									TOTAL ROCK	**$1,383.60**

SPECIAL PROJECTS

Construct landings @ 6+80 and 18+30 -	2.00	@	$250.00	each	$500.00	
Construct turn arounds -	2.00	@	$75.00	each	$150.00	
Grade and shape road -	18.30	stations @	$14.00	per station	$256.20	
Roll subgrade w/ vibratory roller -	18.30	stations @	$13.20	per station	$241.56	
Grass seed and fertilize -	0.42	acres @	$220.00	per acre	$92.40	
				TOTAL SPECIAL PROJECTS		**$1,240.16**

GRAND TOTAL **$5,649.46**

SUMMARY OF CONSTRUCTION COST

Sale: **Blue Money** Road: **E to F**

Construction -	8+50	stations	Improvement -	0+00	stations	Reconstruction -	0+00	stations
	0.16	miles		0.00	miles		0.00	miles

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

Station	to	Station	Avg. Sideslope	Avg. Dist. To W.A. (mi.)	Outslope/Ditch	Cost per Station			
0+00		3+40	30%		Outslope	$191	=	$649.40	
3+40		8+50	15%		Outslope	$107	=	$545.70	
								TOTAL	**$1,195.10**

SPECIAL PROJECTS

Cut/Drift & Fill to reduce grade between 5+70 & 7+50 -	2.00	hours @	$130.00	per hour	$260.00
Construct turn around -	1.00	@	$75.00	each	$75.00
Construct landing @ 8+50 -	1.00	@	$200.00	each	$200.00
Grade and shape road -	8.50	stations @	$14.00	per station	$119.00
Roll subgrade w/ vibratory roller -	8.50	stations @	$13.20	per station	$112.20
Remove large stumps -	1.00	lump sum @	$75.00	total	$75.00
Grass seed and fertilize -	0.20	acres @	$220.00	per acre	$44.00
				TOTAL SPECIAL PROJECTS	**$885.20**

GRAND TOTAL **$2,080.30**

SUMMARY OF CONSTRUCTION COST

Sale: **Blue Money** Road: **G to H**

Construction -	5+20	stations	Improvement -	0+00	stations	Reconstruction -	0+00	stations
	0.10	miles		0.00	miles		0.00	miles

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

Station	to	Station	Avg. Sideslope	Avg. Dist. To W.A. (mi.)	Outslope/Ditch	Cost per Station			
0+00		3+80	15%		Outslope	$107	=	$406.60	
3+80		4+40	20%		Outslope	$139	=	$83.40	
4+40		5+20	30%		Outslope	$191	=	$152.80	
								TOTAL	**$642.80**

ROCK

0+00	to	1+00	100	cy. of	Crushed		@	$11.64	per c.y.=	$1,164.00	
Junction Rock		0+00	20	cy. of	Crushed		@	$11.64	per c.y.=	$232.80	
										TOTAL ROCK	**$1,396.80**

SPECIAL PROJECTS

Construct landing @ 5+20 -	1.00	@	$250.00	each	$250.00	
Construct turn around -	1.00	@	$75.00	each	$75.00	
Grade and shape road -	5.20	stations @	$14.00	per station	$72.80	
Roll subgrade w/ vibratory roller -	5.20	stations @	$13.20	per station	$68.64	
Grass seed and fertilize -	0.14	acres @	$220.00	per acre	$30.80	
					TOTAL SPECIAL PROJECTS	**$497.24**

GRAND TOTAL **$2,536.84**

SUMMARY OF CONSTRUCTION COST

Sale: **Blue Money** Road: **I to J**

Construction -	9+20	stations	Improvement -	30+60	stations	Reconstruction -	0+00	stations
	0.17	miles		0.58	miles		0.00	miles

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

Station	to	Station	Avg. Sideslope	Avg. Dist. To W.A. (mi.)	Outslope/Ditch	Cost per Station			
30+60		32+90	45%		Outslope	$269	=	$618.70	
32+90		33+80	40%		Outslope	$243	=	$218.70	
33+80		35+90	15%		Outslope	$107	=	$224.70	
35+90		37+20	55%		Outslope	$689	=	$895.70	
37+20		39+80	20%		Outslope	$139	=	$361.40	
								TOTAL	**$2,319.20**

IMPROVEMENT: CLEARING AND GRUBBING -

Scattering					0.280	acres @	$980.00 per acre =	$274.40	
							TOTAL CLEARING AND GRUBBING		**$274.40**

ROCK

30+60	to	39+80	530	cy. of	Crushed	@	$10.76 per c.y.=	$5,702.80	
30+60	to	33+80	50	cy. of	Crushed	@	$7.57 per c.y.=	$378.50	
Landing Rock		39+80	100	cy. of	Pit-Run	@	$6.98 per c.y.=	$698.00	
Spot Rock		0+00 - 30+60	100	cy. of	Crushed	@	$2.73 per c.y.=	$273.00	
								TOTAL ROCK	**$7,052.30**

SPECIAL PROJECTS

Construct waste areas -	1.00	hours @	$130.00	per hour	$130.00
Construct landing @ 39+80 -	1.00	@	$300.00	each	$300.00
Fill roadway @ area of 33+80 -	2.00	hours @	$130.00	per hour	$260.00
Grade and shape road -	39.80	stations @	$15.00	per station	$597.00
Construct turn around -	1.00	@	$75.00	each	$75.00
Roll subgrade w/ vibratory roller prior to rocking -	39.80	stations @	$13.20	per station	$525.36
Grass seed and fertilize -	0.56	acres @	$220.00	per acre	$123.20
Mulching -	0.080	acres @	$600.00	per acre	$48.00
				TOTAL SPECIAL PROJECTS	**$2,058.56**

GRAND TOTAL **$11,704.46**

SUMMARY OF CONSTRUCTION COST

Sale: **Blue Money** Road: **K to L**

Construction -	23+30	stations	Improvement -	0+00	stations	Reconstruction -	0+00	stations
	0.44	miles		0.00	miles		0.00	miles

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

Station	to	Station	Avg. Sideslope	Avg. Dist. To W.A. (mi.)	Outslope/Ditch	Cost per Station			
0+00		1+00	30%		Outslope	$191	=	$191.00	
1+00		4+30	55%		Outslope	$689	=	$2,273.70	
4+30		6+00	45%		Outslope	$269	=	$457.30	
6+00		8+40	40%		Outslope	$243	=	$583.20	
8+40		11+00	30%		Outslope	$191	=	$496.60	
11+00		12+00	20%		Outslope	$139	=	$139.00	
12+00		13+10	60%	0.1	Outslope	$1,521	=	$1,673.10	
13+10		16+30	70%	0.13	Outslope	$2,352	=	$7,526.40	
16+30		17+80	40%		Outslope	$243	=	$364.50	
17+80		19+60	70%	0.1	Outslope	$2,352	=	$4,233.60	
19+60		20+00	60%	0.1	Outslope	$1,521	=	$608.40	
20+00		20+20	50%		Outslope	$459	=	$91.80	
20+20		23+30	25%		Outslope	$165	=	$511.50	
								TOTAL	**$19,150.10**

ROCK

0+00	to	23+30	1,270	cy. of	Crushed	@	$10.76	per c.y.=	$13,665.20	
Landing Rock		23+30	100	cy. of	Pit-Run	@	$7.10	per c.y.=	$710.00	
Junction Rock		0+00	20	cy. of	Crushed	@	$10.58	per c.y.=	$211.60	
									TOTAL ROCK	**$14,586.80**

SPECIAL PROJECTS

Construct waste areas -	2.00	hours @	$130.00	per hour	$260.00	
Construct landing @ 23+30 -	1.00	@	$250.00	each	$250.00	
Grade and shape road -	23.30	stations @	$14.00	per station	$326.20	
Construct turnaround -	1.00	@	$75.00	each	$75.00	
Roll subgrade w/ vibratory roller prior to rocking -	23.30	stations @	$13.20	per station	$307.56	
Remove large stumps -	1.00	lump sum @	$150.00		$150.00	
Grass seed and fertilize -	0.79	acres @	$220.00	per acre	$173.80	
Mulching -	0.090	acres @	$600.00	per acre	$54.00	
				TOTAL SPECIAL PROJECTS		**$1,596.56**

GRAND TOTAL **$35,333.46**

SUMMARY OF CONSTRUCTION COST

Sale: **Blue Money** Road: **M to N**

Construction -	4+50	stations	Improvement -	0+00	stations	Reconstruction -	0+00	stations
	0.09	miles		0.00	miles		0.00	miles

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

Station	to	Station	Avg. Sideslope	Avg. Dist. To W.A. (mi.)	Outslope/Ditch	Cost per Station			
0+00		1+10	20%		Outslope	$139	=	$152.90	
1+10		1+60	45%		Outslope	$269	=	$134.50	
1+60		2+80	50%		Outslope	$459	=	$550.80	
2+80		3+70	35%		Outslope	$191	=	$171.90	
3+70		4+50	25%		Outslope	$165	=	$132.00	
								TOTAL	**$1,142.10**

ROCK

0+00	to	4+50	280	cy. of	Crushed	@	$10.78	per c.y.=	$3,018.40
Landing Rock		4+50	100	cy. of	Pit-Run	@	$6.97	per c.y.=	$697.00
Junction Rock		0+00	20	cy. of	Crushed	@	$10.75	per c.y.=	$215.00
								TOTAL ROCK	**$3,930.40**

SPECIAL PROJECTS

Construct landing @ 4+50 -	1.00	@	$250.00	each	$250.00
Construct turn around -	1.00	@	$75.00	each	$75.00
Grade and shape road -	4.50	stations @	$14.00	per station	$63.00
Roll subgrade w/ vibratory roller prior to rocking -	4.50	stations @	$13.20	per station	$59.40
Grass seed and fertilize -	0.12	acres @	$220.00	per acre	$26.40
				TOTAL SPECIAL PROJECTS	**$473.80**

GRAND TOTAL **$5,546.30**

SUMMARY OF CONSTRUCTION COST

Sale: **Blue Money** Road: **O to P**

Construction -	39+30	stations	Improvement -	0+00	stations	Reconstruction -	0+00	stations
	0.74	miles		0.00	miles		0.00	miles

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

Station	to	Station	Avg. Sideslope	Avg. Dist. To W.A. (mi.)	Outslope/Ditch	Cost per Station			
0+00		2+40	35%		Outslope	$191	=	$458.40	
2+40		3+20	25%		Outslope	$165	=	$132.00	
3+20		5+20	40%		Outslope	$243	=	$486.00	
5+20		6+50	65%	0.1	Outslope	$1,931	=	$2,510.30	
6+50		7+40	20%		Outslope	$139	=	$125.10	
7+40		8+10	75%	0.11	Outslope	$2,772	=	$1,940.40	
8+10		8+60	60%	0.12	Outslope	$1,521	=	$760.50	
8+60		11+00	20%		Outslope	$139	=	$333.60	
11+00		12+40	30%		Outslope	$191	=	$267.40	
12+40		13+40	50%		Outslope	$459	=	$459.00	
13+40		14+30	30%		Outslope	$191	=	$171.90	
14+30		16+50	20%		Outslope	$139	=	$305.80	
16+50		18+90	30%		Outslope	$191	=	$458.40	
18+90		19+60	50%		Outslope	$459	=	$321.30	
19+60		20+80	40%		Outslope	$243	=	$291.60	
20+80		22+50	25%		Outslope	$165	=	$280.50	
22+50		27+70	60%	0.1	Outslope	$1,521	=	$7,909.20	
27+70		30+00	45%		Outslope	$269	=	$618.70	
30+00		31+20	35%		Outslope	$191	=	$229.20	
31+20		31+70	25%		Outslope	$165	=	$82.50	
31+70		34+00	20%		Outslope	$139	=	$319.70	
34+00		34+60	30%		Outslope	$191	=	$114.60	
34+60		36+30	25%		Outslope	$165	=	$280.50	
36+30		36+90	35%		Outslope	$191	=	$114.60	
36+90		38+60	45%		Outslope	$269	=	$457.30	
38+60		39+30	30%		Outslope	$191	=	$133.70	
								TOTAL	**$19,562.20**

CULVERTS - MATERIALS & INSTALLATION

Culverts									
		0	LF of 18"	$0.00		40	LF of 24"	$1,080.00	
				$0.00				$1,080.00	
Culvert Markers									
		1	marker	$8.00					
				$8.00				**TOTAL CULVERTS**	**$1,088.00**

ROCK

0+00	to	39+30	2,110	cy. of	Crushed	@	$9.74	per c.y.=	$20,551.40	
8+60	to	15+60	90	cy. of	Crushed	@	$6.56	per c.y.=	$590.40	
33+00	to	38+60	80	cy. of	Crushed	@	$6.95	per c.y.=	$556.00	
Landing Rock		39+30	100	cy. of	Pit-Run	@	$6.20	per c.y.=	$620.00	
Junction Rock		0+00	20	cy. of	Crushed	@	$9.44	per c.y.=	$188.80	
Energy Dissipator		8+10	10	cy. of	Riprap	@	$3.44	per c.y.=	$34.40	
									TOTAL ROCK	**$22,541.00**

SPECIAL PROJECTS

Construct waste areas -	2.00	hours @	$130.00	per hour	$260.00
Construct landing @ 39+30 -	1.00	@	$250.00	each	$250.00
Grade and shape road -	39.30	stations @	$14.00	per station	$550.20
Construct turnaround -	1.00	@	$75.00	each	$75.00
Roll subgrade w/ vibratory roller prior to rocking -	39.30	stations @	$13.20	per station	$518.76
Remove large stumps -	1.00	lump sum @	$150.00		$150.00
Grass seed and fertilize -	1.16	acres @	$220.00	per acre	$255.20
Mulching -	0.090	acres @	$600.00	per acre	$54.00
				TOTAL SPECIAL PROJECTS	**$2,113.16**

GRAND TOTAL **$45,304.36**

SUMMARY OF CONSTRUCTION COST

Sale: **Blue Money** Road: **Q to R**

Construction -	10+20	stations	Improvement -	0+00	stations	Reconstruction -	0+00	stations
	0.19	miles		0.00	miles		0.00	miles

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

Station	to	Station	Avg. Sideslope	Avg. Dist. To W.A. (mi.)	Outslope/Ditch	Cost per Station			
0+00		2+00	30%		Outslope	$191	=	$382.00	
2+00		2+60	50%		Outslope	$459	=	$275.40	
2+60		3+80	60%	0.1	Outslope	$1,521	=	$1,825.20	
3+80		4+60	30%		Outslope	$191	=	$152.80	
4+60		7+40	25%		Outslope	$165	=	$462.00	
7+40		10+20	20%		Outslope	$139	=	$389.20	
								TOTAL	**$3,486.60**

ROCK

0+00	to	10+20	590	cy. of	Crushed	@	$9.84	per c.y.=	$5,805.60	
Landing Rock		10+20	100	cy. of	Pit-Run	@	$6.07	per c.y.=	$607.00	
Junction Rock		0+00	20	cy. of	Crushed	@	$9.76	per c.y.=	$195.20	
									TOTAL ROCK	**$6,607.80**

SPECIAL PROJECTS

Construct landing @ 10+20 -	1.00	@	$250.00	each	$250.00
Construct turnaround -	1.00	@	$75.00	each	$75.00
Grade and shape road -	10.20	stations @	$14.00	per station	$142.80
Roll subgrade w/ vibratory roller prior to rocking -	10.20	stations @	$13.20	per station	$134.64
Remove large stumps -	1.00	lump sum @	$300.00		$300.00
Grass seed and fertilize -	0.23	acres @	$220.00	per acre	$50.60
				TOTAL SPECIAL PROJECTS	**$953.04**

GRAND TOTAL **$11,047.44**

SUMMARY OF CONSTRUCTION COST

Sale: **Blue Money** Road: **S to T**

Construction -	0+00	stations	Improvement -	1+50	stations	Reconstruction -	0+00	stations
	0.00	miles		0.03	miles		0.00	miles

IMPROVEMENT: CLEARING AND GRUBBING -									
Pullback	C & G Endhaul			0.062	acres @	$1,500.00	per acre =	$93.00	
Widening	C & G Endhaul			0.031	acres @	$1,500.00	per acre =	$46.50	
							TOTAL CLEARING AND GRUBBING		**$139.50**
IMPROVEMENT: EXCAVATION -									
Pullback				260	cy. @	$1.40	per c.y.=	$364.00	
Widening				195	cy. @	$1.40	per c.y.=	$273.00	
							TOTAL EXCAVATION		**$637.00**
IMPROVEMENT: ENDHAUL -									
Pullback	0+00	to	1+50	260	cy. @	$1.08	per c.y.=	$280.80	
Widening	0+00	to	1+50	195	cy. @	$1.08	per c.y.=	$210.60	
Spread & compact				455	cy. @	$0.25	per c.y.=	$113.75	
							TOTAL ENDHAUL		**$605.15**
ROCK									
Resurfacing	0+00 - 1+50	20	cy. of	Crushed	@	$6.91	per c.y.=	$138.20	
Energy Dissipator	0+00	10	cy. of	Riprap	@	$4.24	per c.y.=	$42.40	
							TOTAL ROCK		**$180.60**
SPECIAL PROJECTS									
Construct waste areas -				1.00	hours @	$130.00	per hour	$130.00	
Grade and shape road -				1.50	stations @	$15.50	per station	$23.25	
Roll subgrade w/ vibratory roller prior to rocking -				1.50	stations @	$13.20	per station	$19.80	
Grass seed and fertilize -				0.15	acres @	$220.00	per acre	$33.00	
Mulching -				0.150	acres @	$600.00	per acre	$90.00	
							TOTAL SPECIAL PROJECTS		**$296.05**
							GRAND TOTAL		**$1,858.30**

SUMMARY OF CONSTRUCTION COST

Sale: **Blue Money** Road: **U to V**

Construction -	0+00	stations	Improvement -	8+70	stations	Reconstruction -	0+00	stations
	0.00	miles		0.16	miles		0.00	miles

IMPROVEMENT: CLEARING AND GRUBBING -										
Pullback	C & G Endhaul				0.153	acres @	$1,500.00	per acre =	$229.50	
Widening	C & G Endhaul				0.092	acres @	$1,500.00	per acre =	$138.00	
								TOTAL CLEARING AND GRUBBING		**$367.50**
IMPROVEMENT: EXCAVATION -										
Pullback					854	cy. @	$1.40	per c.y.=	$1,195.60	
Widening					386	cy. @	$1.40	per c.y.=	$540.40	
								TOTAL EXCAVATION		**$1,736.00**
IMPROVEMENT: ENDHAUL -										
Pullback	0+00	to	2+50		542	cy. @	$1.20	per c.y.=	$650.40	
Pullback	7+50	to	8+70		312	cy. @	$1.01	per c.y.=	$315.12	
Widening	0+00	to	2+50		386	cy. @	$1.20	per c.y.=	$463.20	
Spread & compact					1240	cy. @	$0.25	per c.y.=	$310.00	
								TOTAL ENDHAUL		**$1,738.72**
ROCK										
Resurfacing	0+00 - 8+70	30	cy. of	Crushed		@	$11.78	per c.y.=	$353.40	
Energy Dissipator	2+50	10	cy. of	Riprap		@	$5.63	per c.y.=	$56.30	
								TOTAL ROCK		**$409.70**
SPECIAL PROJECTS										
Construct waste areas -					1.00	hours @	$130.00	per hour	$130.00	
Remove log cribbing @ 8+00 -					1.00	hours @	$130.00	per hour	$130.00	
Grade and shape road -					8.70	stations @	$15.50	per station	$134.85	
Roll subgrade w/ vibratory roller prior to rocking -					8.70	stations @	$13.20	per station	$114.84	
Grass seed and fertilize -					0.30	acres @	$220.00	per acre	$66.00	
Mulching -					0.300	acres @	$600.00	per acre	$180.00	
								TOTAL SPECIAL PROJECTS		**$755.69**
								GRAND TOTAL		**$5,007.61**

ROCK PIT DEVELOPMENT AND CROSHING COST SUMMARY

Pit:	Stockpile	Location:	NE 1/2, NE 1/4, Sec. 16, T2S, R7W, W.M.
Sale:	**Blue Money**	Road:	440 c.y.
Swell:		Stockpile:	c.y.
Shirinkage		Total Truck Loads:	440 c.y.
Drill Pct.:	0%	In Place Total:	c.y.

Load Dump Truck:	$0.70	/cu.yd.	x 440	cu.yds. =	$308.00
				Subtotal	$308.00
Move in Excavator	(within area)	2.5	mi. @	$36.00 per mi =	$90.00
				Subtotal	$90.00
				TOTAL PRODUCTION COSTS	$398.00

Base Cost= $0.90 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
I to J 3060 3380 (Crushed)	4.22	2.45	0.90	7.57	50		$378.50
O to P 860 1560 (Crushed)	3.21	2.45	0.90	6.56	90		$590.40
O to P 3300 3860 (Crushed)	3.60	2.45	0.90	6.95	80		$556.00
S to T Resurfacing (Crushed)	4.01	2.00	0.90	6.91	20		$138.20
				Total C.Y.	440	Sub Total	$2,179.10

TOTAL ROCKING COSTS	$2,179.10

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Pit:	Crushed	Location:	SW 1/4, SW 1/4, Sec. 5, T2S, R7W, W.M.		
Sale:	**Blue Money**		Road:	5760 c.y.	
Swell:	1.40		Stockpile:	c.y.	
Shirinkage	1.16		Total Truck Loads:	5760 c.y.	
Drill Pct.:	50%		In Place Total:	4114 c.y.	

Pit Development & Cleanup including Clearing and grubbing of Waste Area adjacent to pit, place overburden in Waste Area, spread and compact.							$1,257.44
Drill & Shoot:	$2.50	/cu.yd.	x	2057	cu.yds.	=	$5,142.50
Rip Rock:	$1.90	/cu.yd.	x	2057	cu.yds.	=	$3,908.30
Load Crusher:	$0.60	/cu.yd.	x	5760	cu.yds.	=	$3,456.00
Crush Rock:	$2.35	/cu.yd.	x	5760	cu.yds.	=	$13,536.00
Load Dump Truck:	$0.70	/cu.yd.	x	5760	cu.yds.	=	$4,032.00
					Subtotal		$31,332.24

Move In/Set-up Crusher	1	@	$1,444.00	=	$1,444.00
Move In and set up Drill and Compressor	1	@	$374.52	=	$374.52
Move in Roller and Compactor	1	@	$374.52	=	$374.52
Move in Grader	1	@	$141.13	=	$141.13
Move in Loader	1	@	$498.38	=	$498.38
Move in Excavator	1	@	$690.00	=	$690.00
Move in Trucks	2	@	$118.34	=	$236.68
Move in Water Truck	1	@	$139.10	=	$139.10
			Subtotal		$3,898.33
			TOTAL PRODUCTION COSTS		$35,230.57

Base Cost= $6.12 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 4720 4820 (Crushed)	3.61	2.00	6.12	11.73	100		$1,173.00
A to B Spot Rock (Crushed)	3.43	2.00	6.12	11.55	0		$0.00
C to D 0 100 (Crushed)	3.41	2.00	6.12	11.53	100		$1,153.00
C to D Junction Rock (Crushed)	3.41	2.00	6.12	11.53	20		$230.60
G to H 0 100 (Crushed)	3.52	2.00	6.12	11.64	100		$1,164.00
G to H Junction Rock (Crushed)	3.52	2.00	6.12	11.64	20		$232.80
I to J 3060 3980 (Crushed)	2.64	2.00	6.12	10.76	530		$5,702.80
I to J Landing Rock (Pit-Run)	2.71	1.10	3.17	6.98	100		$698.00
I to J Spot Rock (Crushed)	2.33	2.00	6.12	10.45	0		$0.00
K to L 0 2330 (Crushed)	2.64	2.00	6.12	10.76	1270		$13,665.20
K to L Landing Rock (Pit-Run)	2.83	1.10	3.17	7.10	100		$710.00
K to L Junction Rock (Crushed)	2.46	2.00	6.12	10.58	20		$211.60
M to N 0 450 (Crushed)	2.66	2.00	6.12	10.78	280		$3,018.40
M to N Landing Rock (Pit-Run)	2.70	1.10	3.17	6.97	100		$697.00
M to N Junction Rock (Crushed)	2.63	2.00	6.12	10.75	20		$215.00
O to P 0 3930 (Crushed)	1.62	2.00	6.12	9.74	2110		$20,551.40
O to P Landing Rock (Pit-Run)	1.93	1.10	3.17	6.20	100		$620.00
O to P Junction Rock (Crushed)	1.32	2.00	6.12	9.44	20		$188.80
O to P Energy Dissipator (Riprap)	1.44	1.40	0.60	3.44	10		$34.40
Q to R 0 1020 (Crushed)	1.72	2.00	6.12	9.84	590		$5,805.60
Q to R Landing Rock (Pit-Run)	1.80	1.10	3.17	6.07	100		$607.00
Q to R Junction Rock (Crushed)	1.64	2.00	6.12	9.76	20		$195.20
S to T Energy Dissipator (Riprap)	2.24	1.40	0.60	4.24	10		$42.40
U to V Resurfacing (Crushed)	3.66	2.00	6.12	11.78	30		$353.40
U to V Energy Dissipator (Riprap)	3.63	1.40	0.60	5.63	10		$56.30
				Total C.Y.	5760	Sub Total	$57,325.90
					TOTAL ROCKING COSTS		$57,325.90

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

Sale: **Blue Money**

LOWBOY HAUL (Round Trip)		
DIST. (mi)	ROADWAY	AVE SPEED (mph)
28.0	Pavement	30
4.0	Main Lines	7
4.0	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	Brush Cutter	$449.27		$4.00	0.00	4.00	4	$16.00	$465.27
1	Excavators (Large)	$711.47	1	$44.80	0.00	4.00	4	$179.20	$890.67
1	Tractor (D8)	$668.45	2	$15.10	0.00	0.00	0	$0.00	$668.45
2	Dump Truck (10 cy +)	$290.67		$2.85	0.00	4.00	4	$22.80	$313.47
1	Dump Truck (Off Hiway)	$566.94	1	$4.75	0.00	4.00	4	$19.00	$585.94
1	Water Truck (1500 Gal)	$118.34		$2.85	0.00	4.00	4	$11.40	$129.74

TOTAL MOVE-IN COSTS:	$3,053.54

"STEWARDSHIP IN FORESTRY"

Blue Money

Volume Summary

Area 1 - Partial Cut				
	123 acres			
	Cruised Net	Cruised Net	Hidden	Net Sale
SPECIES	MBF/ Acre	MBF	D&B	MBF
Douglas-fir	7.4	911	5%	866
Hemlock	0.0	0	5%	0
Spruce		0	5%	0
Noble Fir		0	5%	0
Alder	2.5	307	10%	276
TOTAL	9.9	1218		1141

Areas 2 - Modified Clearcut				
	88 acres			
	Cruised Net	Cruised Net	Hidden	Net Sale
SPECIES	MBF/ Acre	MBF	D&B	MBF
Douglas-fir	10.0	883	5%	839
Hemlock		0	5%	0
Spruce		0	5%	0
Noble Fir		0	5%	0
Alder	4.4	390	10%	351
TOTAL	14.5	1273		1190

Areas 3 - Partial Cut				
	34 acres			
	Cruised Net	Cruised Net	Hidden	Net Sale
SPECIES	MBF/ Acre	MBF	D&B	MBF
Douglas-fir	8.6	292	5%	278
Hemlock		0	5%	0
Spruce		0	5%	0
Noble Fir		0	5%	0
Alder	0.4	15	10%	13
TOTAL	9.0	307		291

"STEWARDSHIP IN FORESTRY"

Blue Money

Volume Summary

Areas 4 - Modified Clearcut				
		109 acres		
SPECIES	Cruised Net MBF/ Acre	Cruised Net MBF	Hidden D&B	Net Sale MBF
Douglas-fir	12.4	1348	5%	1280
Hemlock		0	5%	0
Spruce		0	5%	0
Noble Fir		0	5%	0
Alder	0.7	75	10%	68
TOTAL	13.1	1423		1348

TOTAL SALE VOLUME	354 acres	
SPECIES	Cruised Net (MBF)	Net Sale (MBF)
Douglas-fir	3434	3263
Hemlock	0	0
Spruce	0	0
Noble Fir	0	0
Red Alder	786	708
TOTAL	4220	3971

OREGON DEPARTMENT OF FORESTRY
CRUISE REPORT
Blue Money

1. Type of Sale
Thinning/Regeneration harvest, Recovery

2. Legal Description
Portions of Sections 29 and 32, T1S, R7W, Sections 5, 6, 7 and 8, T2S, R7W, Section 1, T2S, R8W, W.M., Tillamook County, Oregon.

3. Sale Acreage
How the acreage was determined (Sale acreage was determined by GPS and orthophotographs along with GIS.)

	ACRES	
	Gross	**Net**
Area 1 (Partial Cut)	131	123
Area 2 (Clearcut)	100	88
Area 3 (Partial Cut)	39	34
Area 4 (Clearcut)	120	109

Gross Acres
Area within the Timber Sale Boundary signs

Net acres
Used for calculating the advertised volume.
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
- **Area 1**: 21 plots were sampled on a rectangular grid pattern spaced 350' between plots and 700' between cruise lines every other line was sampled.
- **Area 2**: 12 plots were sampled on a rectangular grid pattern spaced 350' between plots and 700' between cruise lines every other line was sampled.
- **Area 3**: 6 plots were sampled on a rectangular grid pattern spaced 350' between plots and 700' between cruise lines every other line was sampled.
- **Area 4**: 16 plots were sampled on a rectangular grid pattern spaced 350' between plots and 700' between cruise lines every other line was

sampled.

All conifers 8 inches DBH and greater containing 20 net board feet and all hardwoods 9 inches DBH and greater containing 30 net board feet were sampled for tree species, DBH, form factor, merchantable height, visible defect and grade. Diameters were measured outside bark to the nearest inch and merchantable heights were recorded to the nearest foot. The point of tree observation was 4.5 feet on all plots.

A. Plot size

Variable radius plots used a BAF of 33.61on all plots. The point of tree observation was 4.5 feet.

B. Grading System

Tree heights were measured to a 6" merchantable top for conifers, and 7" for hardwoods. All measurements were outside the bark. All species were graded using Columbia River Log Scaling and Grading Bureau rules, favoring a 40' log.

5. Computation Procedure

The volumes and statistics for the timber cruised were computed using SuperACE 2004, developed by Atterbury Consultants, Inc. The standard error and the coefficient of variation for the cruise as based on net board feet per acre shown in the table below.

Area	C.V. (%)	S.E. (%)
1	48.1	10.8
2	49.8	15.0
3	21.1	9.4
4	68.8	17.8

6. Hidden Defect and Breakage

A 5% defect and breakage reduction was applied to conifers and a 10% reduction to hardwood . This was in addition to visual defect deducted during the cruise.

7. Timber Description

Area 1 is predominantly Douglas-fir with an alder and hemlock component. The entire area burned in the 1939 Saddle Mountain Fire. The Area was seeded during the 1958 season and then replanted planted during the 1967 season. About 47 acres of alder were sprayed along the north and east sides of the Area.

Areas 2 and 4 are Douglas-fir and alder stands that have a minor component of hemlock and cedar.

Area 3 is primarily Douglas-fir with a small amount of alder scattered alder throughout. Areas 2, 3 and 4 burned in the 1939 Saddle Mountain Fire and the 1951 North Fork Fire. These three areas were then seeded in 1953. Areas 2 and 3 were replanted in seasons 1967-1969 and Area 4 was replanted in 1970.

Sale Area – Species (%)	DBH	Merchantable Bole Height	Merchantable Top
Area 1 - Douglas-fir (29%)	11.6	55	5”
Area 1 - Hemlock (1%)	19.0	71	5”
Area 1 - Alder (16%)	14.6	55	6”
Area 2 – Douglas-fir (67%)	12.4	51	5”
Area 2 - Hemlock (1%)	21.0	49	5”
Area 2 - Alder (29%)	14.3	45	6”
Area 3 - Douglas-fir (42%)	11.3	52	5”
Area 3 - Alder (2%)	19.0	57	6”
Area 4 - Douglas-fir (91%)	15.5	58	5”
Area 4 - Alder (5%)	12.3	43	6”

8. Cruiser Names/Dates

Contract Cruised in 2011 and 2012

9. Revenue Distribution

FDF 100%

Tax Code: 9-1 65%

9-2 35%

Deed Numbers: 161, 169, 209, 230

10. Attachments

Stand Table (partial cut)

Volume Summaries

Species, Sort, Grade Tables

Log Stock Tables

Logging Plan

11. Stand and Log Stock Tables Species Key

DL – Douglas-fir leave
DF – Douglas-fir take
RA – Red alder take
RC – Western red cedar reserved
WL – Western hemlock leave
WH – Western hemlock take
BM – Big leaf maple reserved

TC TLOGSTVB

Log Stock Table - MBF

Project: BLUEMONY

T01S R07W S32 T0100

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
01S	07W	32	AREA 1	0100	123.00	20	130

T01S R07W S32 T0100

Page 1
Date 7/16/2012
Time 3:20:59PM

Spp	S T	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	30-39	40+
DL		CH	2M	28	21		21	1.3								21				
DL		CH	2M	32	34		34	2.1								12	23			
DL		CH	2M	40	580	.5	577	35.6						70	320	156	31			
DL		CH	3M	9																
DL		CH	3M	16	5		5	.3						5						
DL		CH	3M	22	2		2	.1				2								
DL		CH	3M	25	2		2	.1				2								
DL		CH	3M	28	8		8	.5				8								
DL		CH	3M	30	8		8	.5					8							
DL		CH	3M	31	2		2	.1			2									
DL		CH	3M	32	51		51	3.1				37	14							
DL		CH	3M	35	7		7	.4			3	4								
DL		CH	3M	39	4		4	.3				4								
DL		CH	3M	40	674	.9	668	41.2			38	298	181	98	52					
DL		CH	4M	12	1		1	.1		1										
DL		CH	4M	13	2		2	.1		2										
DL		CH	4M	14	1		1	.1		1										
DL		CH	4M	16	7		7	.4		3	4									
DL		CH	4M	17	5		5	.3		5										
DL		CH	4M	19	3		3	.2		2	1									
DL		CH	4M	20	12		12	.7		12										
DL		CH	4M	21	4		4	.2		4										
DL		CH	4M	22	3		3	.2		3										
DL		CH	4M	23	4		4	.2		4										
DL		CH	4M	24	9		9	.6		5	2	2								
DL		CH	4M	26	12		12	.7		12										
DL		CH	4M	27	3		3	.2		3										
DL		CH	4M	28	3		3	.2		3										
DL		CH	4M	29	15		15	.9		13	3									
DL		CH	4M	30	8		8	.5		8										
DL		CH	4M	31	5		5	.3		5										
DL		CH	4M	32	4		4	.2		4										
DL		CH	4M	34	6		6	.4		6										
DL		CH	4M	37	3		3	.2		3										
DL		CH	4M	39	8		8	.5		8										
DL		CH	4M	40	99		99	6.1		60	39									
DL		CH	UT	15	5		5	.3						5						
DL		CH	UT	40	12		12	.7			12									
DL		Totals			1,631		1,622	52.5		163	105	357	203	179	372	189	54			
DF		CH	2M	40	42		42	4.6						42						
DF		CH	3M	32	104		104	11.5			89	15								
DF		CH	3M	36	40		40	4.4				40								
DF		CH	3M	40	403		403	44.3			155	101	108	40						
DF		CH	4M	12	1		1	.1		1										
DF		CH	4M	14	4		4	.4		4										
DF		CH	4M	15	17		17	1.9		17										
DF		CH	4M	16	9		9	1.0		9										
DF		CH	4M	17	6		6	.7		6										
DF		CH	4M	18	25		25	2.7		25										
DF		CH	4M	19	23		23	2.5		23										

TC TLOGSTVB

Log Stock Table - MBF

Project: BLUEMONY

T01S R07W S32 T0100

T01S R07W S32 T0100

Page 2

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
01S	07W	32	AREA 1	0100	123.00	20	130

Date 7/16/2012

Time 3:20:59PM

Spp	S T	So rt	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		CH	4M	21	6		6	.6		6										
DF		CH	4M	26	9		9	1.0		9										
DF		CH	4M	29	8		8	.9		8										
DF		CH	4M	30	24		24	2.7		24										
DF		CH	4M	32	37	12.5	33	3.6		14	19									
DF		CH	4M	33	11		11	1.2		11										
DF		CH	4M	35	40		40	4.4		40										
DF		CH	4M	37	6		6	.6		6										
DF		CH	4M	40	101		101	11.1		83	18									
DF		Totals			916		911	29.5		285	281	156	108	81						
RA		H	C	18	8		8	2.6								8				
RA		H	C	24	20		20	6.4						20						
RA		H	C	27	15		15	4.8					15							
RA		H	C	32	49	9.3	44	14.5			23					22				
RA		H	C	40	128	3.3	123	40.3			85	38								
RA		H	D	8																
RA		H	D	11																
RA		H	D	14	5		5	1.7			5									
RA		H	D	15	5		5	1.7			5									
RA		H	D	16	4		4	1.3			4									
RA		H	D	17	4		4	1.5			4									
RA		H	D	18	3		3	.9			3									
RA		H	D	20	11		11	3.4			11									
RA		H	D	23	4		4	1.4			4									
RA		H	D	25	7		7	2.2			7									
RA		H	D	29	14		14	4.7			14									
RA		H	D	30	15		15	4.9			15									
RA		H	D	40	23		23	7.6			23									
RA		Totals			315	2.8	307	9.9			204	38	15	20		30				
RL		H	C	12	6		6	3.2						6						
RL		H	C	13	8		8	4.0						8						
RL		H	C	23	14		14	7.3						14						
RL		H	C	24	15		15	7.4								15				
RL		H	C	32	30	8.6	28	14.1			6		21							
RL		H	C	40	73	6.0	69	34.8				9	60							
RL		H	D																	
RL		H	D	10																
RL		H	D	16	3		3	1.7			3									
RL		H	D	19	4		4	1.8			4									
RL		H	D	20	2		2	1.2			2									
RL		H	D	22	7		7	3.3				7								
RL		H	D	23	4		4	2.0			4									
RL		H	D	30	5		5	2.7			5									
RL		H	D	31	4		4	2.2			4									
RL		H	D	32	12	14.3	10	5.1				10								
RL		H	D	40	21	11.0	18	9.3			8	10								
RL		Totals			208	5.3	197	6.4			37	36	82	29	15					
WL		CH	3M	40	40		40	86.8					19		21					
WL		CH	4M	29	3		3	6.9	3											

TC TLOGSTVB

Log Stock Table - MBF

Project: BLUEMONY

T01S R07W S32 T0100

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
01S	07W	32	AREA 1	0100	123.00	20	130

T01S R07W S32 T0100

Page 3
Date 7/16/2012
Time 3:20:59PM

Spp	S T	So rt	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+
WL		CH	4M	40	3		3	6.3	3											
WL		Totals			46		46	1.5	6				19		21					
BM	H	UT	12		1		1	7.7			1									
BM	H	UT	32		8		8	92.3					8							
BM		Totals			9		9	.3			1		8							
Total All Species					3,125	1.1	3,091	100.0	454		628	587	434	308	408	219	54			

TC TLOGSTVB

Log Stock Table - MBF

Project: BLUEMONY

T02S R07W S6 T0200

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
02S	07W	6	AREA 2	0200	88.00	12	63

T02S R07W S6 T0200

Page 1
Date 6/26/2012
Time 11:42:54AM

Spp	ST	Sort	Grade	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		CH	3M	25	18		18	2.0					18							
DF		CH	3M	32	27		27	3.1										27		
DF		CH	3M	40	538		538	61.0			201	215	98	25						
DF		CH	4M																	
DF		CH	4M	11																
DF		CH	4M	15	4		4	.5		4										
DF		CH	4M	16	11		11	1.2		11										
DF		CH	4M	19	15		15	1.7		15										
DF		CH	4M	20	19		19	2.2		19										
DF		CH	4M	22	4		4	.4		4										
DF		CH	4M	24	14		14	1.5		14										
DF		CH	4M	25	66		66	7.4		66										
DF		CH	4M	27	17		17	1.9		17										
DF		CH	4M	30	8		8	.9		8										
DF		CH	4M	31	8		8	.9		8										
DF		CH	4M	32	5		5	.6		5										
DF		CH	4M	33	18		18	2.0		18										
DF		CH	4M	34	5		5	.6		5										
DF		CH	4M	35	21		21	2.4		21										
DF		CH	4M	40	84		84	9.5		51	33									
DF		Totals			883		883	66.6		266	234	215	116	25				27		
RA		H	C	34	21		21	5.4					21							
RA		H	C	40	91	4.6	87	22.3					45	23	19					
RA		H	D	8																
RA		H	D	11																
RA		H	D	12	2		2	.4			2									
RA		H	D	14	7		7	1.9			7									
RA		H	D	15	4		4	1.0			4									
RA		H	D	16	5		5	1.4			5									
RA		H	D	18	3		3	.6			3									
RA		H	D	19	6		6	1.5			6									
RA		H	D	20	5		5	1.2			5									
RA		H	D	21	11		11	2.7				11								
RA		H	D	23	4		4	1.1			4									
RA		H	D	26	15		15	3.7			15									
RA		H	D	27	14		14	3.5			14									
RA		H	D	31	33	50.0	17	4.2			17									
RA		H	D	36	16		16	4.0				16								
RA		H	D	38	22		22	5.7				22								
RA		H	D	40	153		153	39.3			89	64								
RA		Totals			410	5.0	390	29.4			170	112	66	23	19					
RC		CH	3M	34	12		12	27.0			12									
RC		CH	4M	40	36	10.3	33	73.0			33									
RC		Totals			48	7.7	45	3.4			45									
WH		CH	4M	40	9		9	100.0				9								
WH		Totals			9		9	.7				9								
Total All Species					1,351	1.8	1,327	100.0		266	448	337	182	47	19			27		

TC TLOGSTVB

Log Stock Table - MBF

Project: BLUEMONY

T02S R07W S6 T0300

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
02S	07W	6	AREA 3	0300	34.00	6	34

T02S R07W S6 T0300

Page 1
Date 6/26/2012
Time 11:47:13AM

Spp	S T	So rt	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+
DL		CH	3M	37	4		4	1.1			4									
DL		CH	3M	40	307	2.1	300	75.4			31	133	16	104	16					
DL		CH	4M	16	2		2	.5		2										
DL		CH	4M	19	5		5	1.2		5										
DL		CH	4M	25	12		12	3.1		12										
DL		CH	4M	26	12		12	2.9		12										
DL		CH	4M	29	5		5	1.3		5										
DL		CH	4M	32	5		5	1.2		5										
DL		CH	4M	35	6		6	1.6		6										
DL		CH	4M	36	3		3	.8		3										
DL		CH	4M	38	11		11	2.6		11										
DL		CH	4M	39	2		2	.6		2										
DL		CH	4M	40	31		31	7.7		2	28									
DL		Totals			405	1.6	398	56.5		65	64	133	16	104	16					
DF		CH	3M	40	159		159	54.4			53	88	18							
DF		CH	4M	15	6		6	2.0		6										
DF		CH	4M	18	3		3	.9		3										
DF		CH	4M	19	11		11	3.6		11										
DF		CH	4M	20	4		4	1.4		4										
DF		CH	4M	28	5		5	1.6		5										
DF		CH	4M	30	10		10	3.4		10										
DF		CH	4M	31	13		13	4.4		13										
DF		CH	4M	32	13		13	4.4		13										
DF		CH	4M	35	8		8	2.8		8										
DF		CH	4M	38	10		10	3.3		10										
DF		CH	4M	40	52		52	17.7		34	17									
DF		Totals			292		292	41.5		116	70	88	18							
RA		H	C	17	10		10	66.7						10						
RA		H	D	33	5		5	33.3			5									
RA		Totals			15		15	2.1			5			10						
Total All Species					712		705	100.0		181	139	221	34	114	16					

TC TLOGSTVB

Log Stock Table - MBF

Project: BLUEMONY

T02S R07W S03 T0400

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
02S	07W	03	AREA 4	0400	109.00	16	77

T02S R07W S03 T0400

Page 1
Date 6/26/2012
Time 11:51:04AM

Spp	S T	So Grade	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		CH 2M	36	21		21	1.6						21						
DF		CH 2M	40	117	4.2	112	8.3							65	48				
DF		CH 3M	24	13		13	1.0				13								
DF		CH 3M	33	3		3	.2			3									
DF		CH 3M	38	16		16	1.2				16								
DF		CH 3M	40	873	1.9	857	63.6			93	331	227	118	39	47				
DF		CH 4M	9																
DF		CH 4M	10																
DF		CH 4M	11																
DF		CH 4M	13	4		4	.3		4										
DF		CH 4M	14	5		5	.4		4	1									
DF		CH 4M	15	2		2	.2		2										
DF		CH 4M	16	1		1	.1			1									
DF		CH 4M	18	4		4	.3		4										
DF		CH 4M	19	3		3	.2		3										
DF		CH 4M	20	31		31	2.3		18			13							
DF		CH 4M	21	18		18	1.3		18										
DF		CH 4M	22	9		9	.6		9										
DF		CH 4M	24	12		12	.9		12										
DF		CH 4M	25	6	33.3	4	.3		4										
DF		CH 4M	26	19		19	1.4		19										
DF		CH 4M	27	6		6	.4		6										
DF		CH 4M	30	4		4	.3		4										
DF		CH 4M	31	11		11	.8		11										
DF		CH 4M	32	22		22	1.6		22										
DF		CH 4M	33	21		21	1.5		21										
DF		CH 4M	34	5		5	.4		5										
DF		CH 4M	36	3		3	.3		3										
DF		CH 4M	37	16		16	1.2		16										
DF		CH 4M	40	132	2.8	128	9.5		56	72									
DF		Totals		1,374	1.9	1,348	90.9		239	171	360	240	139	104	95				
RA		H D	11																
RA		H D	15	3		3	4.4			3									
RA		H D	24	10		10	13.8			10									
RA		H D	40	62		62	81.8			25	36								
RA		Totals		75		75	5.1			39	36								
DL		CH 3M	40	44		44	81.8				20	25							
DL		CH 4M	26	5		5	9.1		5										
DL		CH 4M	30	5		5	9.1		5										
DL		Totals		54		54	3.7		10		20	25							
BM		H 4M	13	5		5	100.0				5								
BM		Totals		5		5	.3				5								
Total All Species				1,509	1.8	1,482	100.0		249	209	421	265	139	104	95				

T TSPCSTGR

Species, Sort Grade - Board Foot Volumes (Type)

Project: BLUEMONY

Page 1
Date 7/16/2012
Time 3:21:00PM

T01S R07W S32 T0100

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt
01S	07W	32	AREA 1	0100	123.00	20	130	S	W

T01S R07W S32 T0100

Spp	S T	So rt	Gr ad	% 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	Bd Ft	CF/ Lf	Logs Per /Acre
DL		CH	2M	39	.5	5,166	5,141	632			73	27		3	5	91	39	351	2.27	14.7
DL		CH	3M	46	.8	6,209	6,161	758		79	21		1	3	8	89	38	114	0.90	54.1
DL		CH	4M	13		1,744	1,744	214	76	24			14	28	7	51	29	32	0.31	53.8
DL		CH	UT	2		140	140	17		68	32		32			68	33	75	0.86	1.9
DL	**Totals**			52	.5	13,259	13,186	1,622	10	41	38	11	3	6	7	84	34	106	0.87	124.4
DF		CH	2M	4		338	338	42			100					100	40	240	1.71	1.4
DF		CH	3M	60		4,453	4,453	548		93	7				19	81	37	84	0.60	53.2
DF		CH	4M	36	1.4	2,656	2,618	322	89	11			26	15	26	33	27	30	0.27	88.3
DF	**Totals**			29	.5	7,446	7,408	911	31	60	9		9	5	21	65	31	52	0.44	142.9
RA		HW	C	68	4.0	1,782	1,711	210		77	13	10	4	16	21	59	36	84	0.70	20.5
RA		HW	D	32		781	781	96		100			33	42		24	22	27	0.36	28.8
RA	**Totals**			10	2.8	2,563	2,492	307		84	9	7	13	25	15	48	28	51	0.55	49.3
RL		HW	C	70	4.8	1,193	1,136	140		69	31		10	21	20	49	30	112	1.18	10.1
RL		HW	D	30	6.4	501	469	58		100			16	27	25	32	24	38	0.55	12.5
RL	**Totals**			6	5.3	1,694	1,605	197		78	22		12	23	21	44	26	71	0.87	22.6
WL		CH	3M	86		323	323	40		48	52					100	40	225	1.64	1.4
WL		CH	4M	14		49	49	6	100					52		48	33	34	0.50	1.4
WL	**Totals**			1		371	371	46	13	41	45			7		93	37	129	1.12	2.9
BM		HW	UT	100		70	70	9		100			8		92		22	65	1.09	1.1
BM	**Totals**			0		70	70	9		100			8		92		22	65	1.09	1.1
Type Totals					1.1	25,403	25,132	3,091	15	53	26	6	6	9	13	72	32	73	0.65	343.2

T TSPCSTGR

Species, Sort Grade - Board Foot Volumes (Type)

Project: BLUEMONY

Page 1
Date 6/26/2012
Time 11:44:25AM

T02S R07W S6 T0200

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt
02S	07W	6	AREA 2	0200	88.00	12	63	S	W

T02S R07W S6 T0200

Spp	S T	So rt	Gr ad	% 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	Bd Ft	CF/ Lf	Logs Per /Acre
DF		CH	3M	66		6,635	6,635	584		91	4	5		3	5	92	39	96	0.74	68.9
DF		CH	4M	34		3,398	3,398	299	89	11			17	36	19	28	26	28	0.29	119.8
DF	**Totals**			67		10,033	10,033	883	30	64	3	3	6	14	10	70	31	53	0.50	188.6
RA		HW	C	27	3.7	1,272	1,225	108		61	39				19	81	39	178	1.42	6.9
RA		HW	D	73	5.5	3,392	3,205	282		100			11	15	6	68	28	42	0.54	75.8
RA	**Totals**			29	5.0	4,665	4,430	390		89	11		8	11	10	71	29	54	0.64	82.7
RC		CH	3M	27		137	137	12		100					100		34	60	0.75	2.3
RC		CH	4M	73	10.3	412	369	33		100						100	40	54	0.58	6.9
RC	**Totals**			3	7.7	549	506	45		100					27	73	39	55	0.62	9.1
WH		CH	4M	100		105	105	9		100						100	40	90	1.62	1.2
WH	**Totals**			1		105	105	9		100						100	40	90	1.62	1.2
Type Totals					1.8	15,352	15,074	1,327	20	73	5	2	6	13	10	71	31	54	0.55	281.7

T TSPCSTGR

Species, Sort Grade - Board Foot Volumes (Type)

Project: BLUEMONY

Page 1
Date 6/26/2012
Time 11:48:10AM

T02S R07W S6 T0300

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt
02S	07W	6	AREA 3	0300	34.00	6	34	S	W

T02S R07W S6 T0300

Spp	ST	So	Gr	% 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	Bd Ft	CF/ Lf	Logs Per /Acre
DL		CH	3M	76	2.1	9,152	8,963	305		61	39					100	40	121	0.90	73.8
DL		CH	4M	24		2,754	2,754	94	70	30			7	31	12	50	31	37	0.33	75.2
DL	**Totals**			56	1.6	11,906	11,717	398	16	53	30		2	7	3	88	35	79	0.65	149.0
DF		CH	3M	54		4,679	4,679	159		100						100	40	86	0.62	54.4
DF		CH	4M	46		3,920	3,920	133	87	13			17	11	26	46	30	32	0.30	120.7
DF	**Totals**			41		8,599	8,599	292	40	60			8	5	12	75	33	49	0.42	175.1
RA		HW	C	66		285	285	10			100		100				17	100	1.34	2.8
RA		HW	D	34		142	142	5		100					100		33	50	0.56	2.8
RA	**Totals**			2		427	427	15		33	67		67		33		25	75	0.83	5.7
Type Totals					.9	20,932	20,743	705	26	56	18		6	6	7	81	34	63	0.53	329.8

T TSPCSTGR

Species, Sort Grade - Board Foot Volumes (Type)

Project: BLUEMONY

Page 1
Date 6/26/2012
Time 11:52:05AM

T02S R07W S03 T0400

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt
02S	07W	03	AREA 4	0400	109.00	16	77	S	W

T02S R07W S03 T0400

Spp	ST	So	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	Bd Ft	CF/ Lf	Logs Per /Acre
DF		CH	2M	9	3.5	1,269	1,224	133			100					100	39	316	2.17	3.9
DF		CH	3M	66	1.8	8,298	8,150	888		77	21	2		1	0	98	39	119	0.93	68.3
DF		CH	4M	25	1.7	3,042	2,991	326	73	27			15	22	18	45	28	31	0.36	97.3
DF	**Totals**			91	1.9	12,609	12,365	1,348	18	57	23	2	4	6	5	86	33	73	0.69	169.5
RA		HW	D	100		691	691	75		100			4	14		82	30	51	0.51	13.5
RA	**Totals**			5		691	691	75		100			4	14		82	30	51	0.51	13.5
DL		CH	3M	81		406	406	44		100						100	40	135	0.94	3.0
DL		CH	4M	19		90	90	10	100					100			28	30	0.32	3.0
DL	**Totals**			4		496	496	54	18	82				18		82	34	83	0.69	6.0
BM		HW	4M	100		45	45	5		100			100				13	30	0.68	1.5
BM	**Totals**			0		45	45	5		100			100				13	30	0.68	1.5
Type Totals					1.8	13,842	13,598	1,482	17	60	21	1	4	7	4	85	32	71	0.68	190.5

TC TSTNDSUM

Stand Table Summary

Project BLUEMONY

T01S R07W S32 T0100

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
01S	07W	32	AREA 1	0100	123.00	20	130

Date: 07/16/2012
Time: 3:21:01PM

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
DL		9	1	81	90	3.804	1.68	3.80	11.6	40.0	1.21	44	152	149	54	19
DL		11	2	80	99	5.093	3.36	7.64	13.4	46.7	2.82	103	356	347	126	44
DL		13	1	84	89	1.823	1.68	3.65	15.1	55.0	1.52	55	201	187	68	25
DL		14	7	80	107	11.004	11.76	22.01	18.3	61.4	11.07	403	1,352	1,362	495	166
DL		15	7	76	98	9.586	11.76	19.17	19.5	59.3	10.29	374	1,137	1,266	460	140
DL		16	3	84	109	3.611	5.04	7.22	25.7	101.7	5.11	186	734	628	229	90
DL		18	2	81	108	1.902	3.36	4.75	25.3	90.0	3.31	120	428	408	148	53
DL		19	5	79	115	4.295	8.40	11.18	29.4	100.7	9.02	328	1,126	1,110	404	139
DL		20	1	85	101	.770	1.68	1.54	38.9	120.0	1.65	60	185	203	74	23
DL		21	5	79	112	3.493	8.40	9.08	36.5	130.0	9.12	332	1,181	1,122	408	145
DL		22	2	83	123	1.273	3.36	3.82	37.7	156.7	3.96	144	598	487	177	74
DL		23	5	80	105	2.912	8.40	7.57	41.2	141.5	8.57	312	1,072	1,054	383	132
DL		24	5	78	111	2.675	8.40	6.42	48.1	163.3	8.48	308	1,048	1,043	379	129
DL		25	4	79	118	1.972	6.72	5.92	43.4	160.8	7.06	257	951	869	316	117
DL		26	2	80	118	.912	3.36	2.73	48.6	186.7	3.65	133	510	449	163	63
DL		27	1	74	122	.423	1.68	1.27	48.7	166.7	1.70	62	211	209	76	26
DL		28	2	79	113	.786	3.36	1.97	66.2	244.0	3.58	130	479	440	160	59
DL		29	2	73	119	.733	3.36	1.83	73.8	248.0	3.72	135	454	457	166	56
DL		30	1	78	137	.342	1.68	1.03	72.3	296.7	2.04	74	305	251	91	37
DL		32	2	81	136	.602	3.36	1.81	82.7	390.0	4.11	149	704	505	184	87
DL		Totals	60	80	106	58.010	100.83	124.41	29.8	106.0	102.00	3,709	13,186	12,546	4,562	1,622
DF		8	2	73	63	9.629	3.36	9.63	5.8	25.0	1.59	56	241	196	69	30
DF		9	6	83	91	22.823	10.08	38.04	7.1	34.0	7.66	269	1,293	943	331	159
DF		10	3	83	83	9.243	5.04	12.32	10.4	35.0	3.64	128	431	448	157	53
DF		11	5	82	91	12.732	8.40	20.37	11.9	43.7	6.93	242	891	852	298	110
DF		12	6	81	111	12.838	10.08	25.68	13.3	52.5	9.77	343	1,348	1,201	422	166
DF		13	2	81	116	3.646	3.36	7.29	17.0	62.5	3.52	124	456	433	152	56
DF		14	2	82	103	3.144	3.36	6.29	18.0	65.0	3.22	113	409	396	139	50
DF		15	1	82	79	1.369	1.68	2.74	18.1	60.0	1.41	49	164	173	61	20
DF		16	2	82	108	2.407	3.36	4.81	26.0	95.0	3.56	125	457	438	154	56
DF		18	4	79	104	3.804	6.72	8.56	28.2	96.7	6.87	241	827	845	296	102
DF		19	1	83	109	.854	1.68	1.71	37.4	130.0	1.82	64	222	224	78	27
DF		20	1	85	111	.770	1.68	2.31	29.3	110.0	1.93	68	254	237	83	31
DF		22	2	80	107	1.273	3.36	3.18	39.4	130.0	3.57	125	414	439	154	51
DF		Totals	37	81	93	84.533	62.18	142.93	13.6	51.8	55.50	1,946	7,408	6,827	2,394	911
RA		10	1	72	62	3.081	1.68	3.08	12.8	40.0	1.09	40	123	134	49	15
RA		11	2	72	79	5.093	3.36	5.09	15.2	50.0	2.13	77	255	262	95	31
RA		12	5	76	110	10.698	8.40	21.40	12.7	41.0	7.50	273	877	922	335	108
RA		13	2	79	107	3.646	3.36	7.29	16.2	55.0	3.27	118	401	402	145	49
RA		14	2	70	99	3.144	3.36	6.29	12.4	32.5	2.16	78	204	266	96	25
RA		16	1	79	77	1.204	1.68	2.41	18.8	65.0	1.23	45	156	151	56	19
RA		17	1	90	55	1.066	1.68	2.13	18.3	85.0	1.07	39	181	132	48	22
RA		24	1	63	63	.535	1.68	.53	44.7	70.0	.66	24	37	81	29	5
RA		29	1	78	98	.366	1.68	1.10	55.4	233.3	1.68	61	256	206	75	32
RA		Totals	16	75	93	28.834	26.89	49.32	15.3	50.5	20.78	755	2,492	2,556	929	307
RL		15	1	83	133	1.369	1.68	4.11	17.8	70.0	2.04	73	288	251	90	35
RL		17	3	78	94	3.198	5.04	7.46	21.0	75.7	4.29	156	565	528	192	70
RL		18	1	69	75	.951	1.68	1.90	25.5	65.0	1.34	49	124	164	60	15
RL		19	2	70	80	1.707	3.36	4.27	19.4	56.0	2.28	83	239	280	102	29
RL		20	2	67	78	1.541	3.36	2.31	30.0	66.7	1.91	69	154	234	85	19

TC TSTNDSUM

Stand Table Summary

Project BLUEMONY

T01S R07W S32 T0100

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
01S	07W	32	AREA 1	0100	123.00	20	130

Date: 07/16/201?
Time: 3:21:01PM

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.	Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals Tons	Totals Cunits	Totals MBF
RL		21	1	78	75	.699	1.68	1.40	32.6	110.0	1.25	46	154	154	56	19
RL		23	1	66	67	.582	1.68	1.16	38.8	70.0	1.24	45	82	153	56	10
RL		Totals	11	74	90	10.047	18.49	22.61	23.0	71.0	14.34	521	1,605	1,764	641	197
WL		19	1	82	87	.854	1.68	1.71	32.1	105.0	1.75	55	179	215	67	22
WL		23	1	83	97	.582	1.68	1.16	54.2	165.0	2.02	63	192	248	78	24
WL		Totals	2	82	91	1.436	3.36	2.87	41.0	129.3	3.77	118	371	464	145	46
BM		24	1	60	67	.535	1.68	1.07	24.0	65.0	.68	26	70	84	32	9
BM		Totals	1	60	67	.535	1.68	1.07	24.0	65.0	0.68	26	70	84	32	9
OC		8	1	82	80	4.814	1.68									
OC		16	1	88	28	1.204	1.68									
OC		23	1	90	137	.582	1.68									
OC		Totals	3	84	76	6.600	5.04									
Totals			130	79	96	189.995	218.47	343.22	20.6	73.2	197.08	7075	25,132	24,241	8,703	3,091

TC TSTNDSUM

Stand Table Summary

Project BLUEMONY

T02S R07W S6 T0200

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
02S	07W	6	AREA 2	0200	88.00	12	63

T02S R07W S6 T0200

Page: 1
Date: 06/26/2012
Time: 11:41:30AM

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		8	1	81	42	8.024	2.80	8.02	4.0	20.0	.92	32	160	81	28	14
DF		9	4	76	53	25.359	11.20	25.36	7.4	30.0	5.33	187	761	469	164	67
DF		10	1	80	60	5.135	2.80	5.14	11.2	40.0	1.65	58	205	145	51	18
DF		11	4	80	77	16.976	11.20	21.22	13.2	40.0	8.00	281	849	704	247	75
DF		12	5	82	92	17.831	14.00	35.66	11.6	41.0	11.74	412	1,462	1,033	363	129
DF		13	6	81	102	18.232	16.81	36.46	15.1	52.5	15.65	549	1,914	1,377	483	168
DF		14	2	81	84	5.240	5.60	10.48	16.3	55.0	4.87	171	576	429	150	51
DF		15	4	82	95	9.129	11.20	18.26	19.6	68.8	10.18	357	1,255	896	314	110
DF		16	4	83	98	8.024	11.20	16.05	24.0	85.0	10.99	386	1,364	967	339	120
DF		18	1	76	84	1.585	2.80	3.17	27.6	75.0	2.49	87	238	219	77	21
DF		19	2	77	101	2.845	5.60	5.69	35.8	110.0	5.80	204	626	511	179	55
DF		22	1	76	88	1.061	2.80	2.12	43.9	115.0	2.65	93	244	233	82	21
DF		39	1	81	100	.338	2.80	1.01	90.9	373.3	2.62	92	378	231	81	33
DF		Totals	36	80	79	119.778	100.83	188.64	15.4	53.2	82.90	2,909	10,033	7,295	2,560	883
RA		10	1	70	64	5.135	2.80	5.14	13.3	20.0	1.87	68	103	165	60	9
RA		11	4	77	80	16.976	11.20	21.22	12.2	40.0	7.15	260	849	629	229	75
RA		12	2	78	62	7.132	5.60	10.70	12.0	33.3	3.54	129	357	312	113	31
RA		13	3	79	70	9.116	8.40	12.15	16.7	55.0	5.59	203	668	492	179	59
RA		14	1	64	50	2.620	2.80	2.62	7.4	20.0	.53	19	52	47	17	5
RA		15	2	79	87	4.565	5.60	9.13	20.0	60.0	5.02	183	548	442	161	48
RA		17	1	77	72	1.777	2.80	3.55	21.8	55.0	2.13	77	195	187	68	17
RA		18	3	78	79	4.755	8.40	7.92	31.5	90.0	7.19	250	713	633	220	63
RA		19	1	80	81	1.423	2.80	2.85	26.5	85.0	2.07	75	242	182	66	21
RA		20	1	83	85	1.284	2.80	2.57	38.3	115.0	2.70	98	295	238	87	26
RA		21	1	61	81	1.164	2.80	2.33	15.8	45.0	1.01	37	105	89	32	9
RA		29	1	91	85	.611	2.80	1.22	53.1	190.0	1.78	65	232	157	57	20
RA		31	1	90	33	.534	2.80	.53	34.0	20.0	.58	18	11	51	16	1
RA		36	1	50	71	.396	2.80	.79	39.5	75.0	.86	31	59	76	28	5
RA		Totals	23	76	73	57.488	64.42	82.73	18.3	53.5	42.04	1,514	4,430	3,700	1,332	390
RC		11	1	76	84	4.244	2.80	4.24	18.0	50.0	1.96	76	212	172	67	19
RC		14	1	68	66	2.620	2.80	2.62	31.9	60.0	1.96	83	157	173	73	14
RC		15	1	79	55	2.282	2.80	2.28	25.4	60.0	1.36	58	137	120	51	12
RC		Totals	3	74	72	9.146	8.40	9.15	23.8	55.4	5.28	218	506	465	192	45
WH		21	1	68	59	1.164	2.80	1.16	64.7	90.0	2.41	75	105	212	66	9
WH		Totals	1	68	59	1.164	2.80	1.16	64.7	90.0	2.41	75	105	212	66	9
Totals			63	79	77	187.577	176.45	281.68	16.7	53.5	132.63	4716	15,074	11,672	4,150	1,327

TC TSTNDSUM

Stand Table Summary

Project BLUEMONY

T02S R07W S6 T0300

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
02S	07W	6	AREA 3	0300	34.00	6	34

T02S R07W S6 T0300

Page: 1
Date: 06/26/201[illegible]
Time: 11:46:00AM

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.	Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals Tons	Totals Cunits	Totals MBF
DL		11	1	81	76	8.488	5.60	8.49	17.1	60.0	4.14	145	509	141	49	17
DL		12	1	83	94	7.132	5.60	14.26	12.4	45.0	5.06	178	642	172	60	22
DL		13	3	81	100	18.232	16.81	36.46	15.3	56.7	15.94	559	2,066	542	190	70
DL		14	2	83	97	10.480	11.20	20.96	17.0	65.0	10.50	356	1,362	357	121	46
DL		15	3	81	106	13.694	16.81	27.39	20.3	73.3	16.98	556	2,008	577	189	68
DL		18	1	77	103	3.170	5.60	6.34	31.6	95.0	5.71	200	602	194	68	20
DL		19	2	81	117	5.690	11.20	14.23	31.3	114.0	12.68	445	1,622	431	151	55
DL		20	1	83	105	2.568	5.60	5.14	39.5	130.0	5.78	203	668	196	69	23
DL		21	1	80	96	2.329	5.60	4.66	40.2	120.0	5.34	187	559	181	64	19
DL		22	1	78	100	2.122	5.60	4.24	48.4	150.0	5.86	205	637	199	70	22
DL		24	1	76	96	1.783	5.60	3.57	53.6	140.0	5.45	191	499	185	65	17
DL		25	1	76	95	1.643	5.60	3.29	59.6	165.0	5.58	196	542	190	67	18
DL		Totals	18	81	99	77.331	100.83	149.02	23.0	78.6	99.02	3,422	11,717	3,367	1,163	398
DF		9	4	81	80	50.718	22.41	50.72	10.3	35.0	14.94	524	1,775	508	178	60
DF		10	1	81	121	10.270	5.60	20.54	9.0	40.0	5.27	185	822	179	63	28
DF		11	2	78	91	16.976	11.20	25.46	12.2	46.7	8.89	312	1,188	302	106	40
DF		12	1	76	60	7.132	5.60	7.13	17.5	40.0	3.56	125	285	121	42	10
DF		13	3	82	105	18.232	16.81	36.46	15.7	56.7	16.35	574	2,066	556	195	70
DF		14	1	83	84	5.240	5.60	10.48	16.5	55.0	4.92	173	576	167	59	20
DF		15	1	81	96	4.565	5.60	9.13	20.7	75.0	5.40	189	685	183	64	23
DF		16	1	81	80	4.012	5.60	8.02	21.0	70.0	4.80	168	562	163	57	19
DF		17	1	82	92	3.554	5.60	7.11	26.3	90.0	5.33	187	640	181	64	22
DF		Totals	15	81	89	120.699	84.03	175.06	13.9	49.1	69.46	2,437	8,599	2,362	829	292
RA		19	1	76	74	2.845	5.60	5.69	20.7	75.0	3.23	118	427	110	40	15
RA		Totals	1	76	74	2.845	5.60	5.69	20.7	75.0	3.23	118	427	110	40	15
Totals			34	81	92	200.875	190.46	329.77	18.1	62.9	171.71	5977	20,743	5,838	2,032	705

TC TSTNDSUM

Stand Table Summary

Project BLUEMONY

T02S R07W S03 T0400

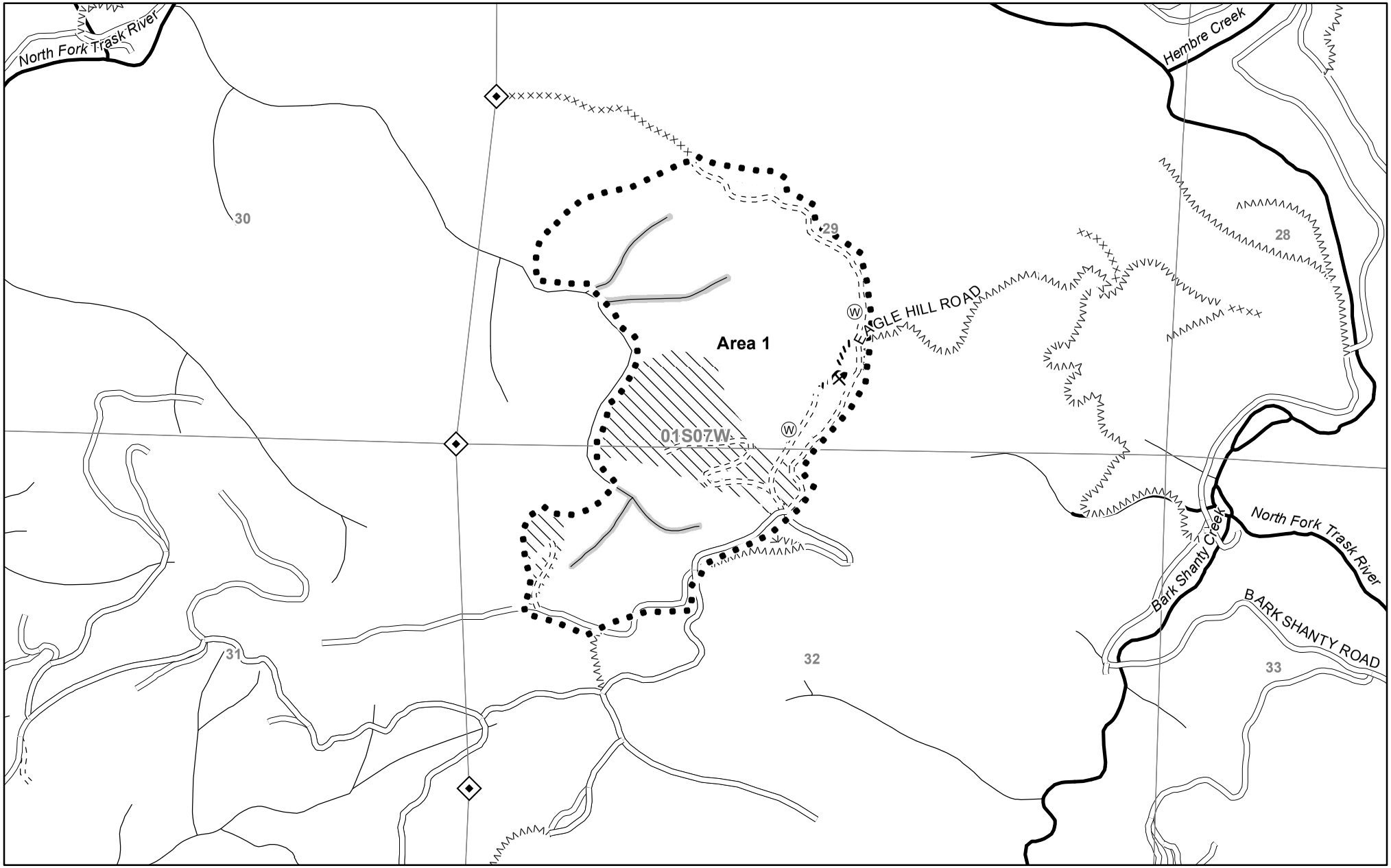
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
02S	07W	03	AREA 4	0400	109.00	16	77

T02S R07W S03 T0400

Date: 06/26/201[illegible]

Time: 11:49:19AM

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		9	3	74	51	14.265	6.30	14.26	7.1	26.7	2.90	102	380	316	111	41
DF		10	1	76	84	3.851	2.10	3.85	13.6	40.0	1.50	53	154	163	57	17
DF		11	2	80	58	6.366	4.20	6.37	12.4	35.0	2.39	79	223	261	86	24
DF		12	3	79	78	8.024	6.30	10.70	13.8	42.5	4.49	148	455	489	161	50
DF		13	2	76	86	4.558	4.20	6.84	12.9	43.3	2.69	88	296	293	96	32
DF		14	8	80	90	15.720	16.81	31.44	15.9	52.5	14.42	501	1,651	1,572	546	180
DF		15	7	80	80	11.982	14.70	22.25	18.3	62.3	11.76	407	1,387	1,282	444	151
DF		16	5	80	96	7.522	10.50	15.04	22.4	77.0	9.94	337	1,158	1,083	367	126
DF		17	5	81	103	6.663	10.50	13.33	27.4	96.0	10.42	366	1,279	1,136	399	139
DF		18	6	77	77	7.132	12.60	11.89	28.1	72.0	10.14	334	856	1,105	364	93
DF		19	2	81	104	2.134	4.20	4.27	35.5	115.0	4.32	152	491	471	165	53
DF		20	2	80	87	1.926	4.20	3.85	34.2	105.0	3.80	132	404	415	144	44
DF		21	7	80	101	6.113	14.70	12.23	34.4	106.4	12.13	420	1,301	1,323	458	142
DF		22	1	72	88	.796	2.10	.80	16.6	40.0	.38	13	32	41	14	3
DF		23	1	72	81	.728	2.10	.73	10.4	30.0	.21	8	22	23	8	2
DF		24	1	79	98	.669	2.10	1.34	50.1	150.0	2.06	67	201	225	73	22
DF		25	2	80	103	1.232	4.20	2.46	60.1	205.0	4.40	148	505	480	162	55
DF		26	3	79	116	1.709	6.30	5.13	48.2	176.7	7.04	247	906	767	269	99
DF		27	1	82	102	.528	2.10	1.06	65.5	225.0	1.97	69	238	215	75	26
DF		28	1	72	100	.491	2.10	.98	69.2	190.0	2.12	68	187	231	74	20
DF		34	1	76	103	.333	2.10	.67	114.5	360.0	2.17	76	240	237	83	26
DF		Totals	64	78	82	102.744	134.44	169.47	22.5	73.0	111.26	3,814	12,365	12,127	4,157	1,348
RA		10	1	82	80	3.851	2.10	3.85	14.8	60.0	1.57	57	231	171	62	25
RA		11	1	72	50	3.183	2.10	3.18	11.0	30.0	1.03	35	95	112	38	10
RA		15	1	79	74	1.712	2.10	3.42	17.5	45.0	1.64	60	154	179	65	17
RA		16	1	79	89	1.504	2.10	3.01	17.5	70.0	1.45	53	211	158	57	23
RA		Totals	4	78	71	10.251	8.40	13.47	15.2	51.3	5.69	205	691	621	223	75
DL		16	2	83	92	3.009	4.20	6.02	23.3	82.5	4.00	140	496	436	153	54
DL		Totals	2	83	92	3.009	4.20	6.02	23.3	82.5	4.00	140	496	436	153	54
BM		16	1	69	37	1.504	2.10	1.50	8.9	30.0	.35	13	45	39	15	5
BM		Totals	1	69	37	1.504	2.10	1.50	8.9	30.0	0.35	13	45	39	15	5
OC		12	1	87	76	2.675	2.10									
OC		27	1	90	20	.528	2.10									
OC		28	1	89	17	.491	2.10									
OC		40	1	90	25	.241	2.10									
OC		50	1	90	47	.154	2.10									
OC		60	1	90	18	.107	2.10									
OC		Totals	6	88	57	4.196	12.60									
Totals			77	79	80	121.704	161.75	190.46	21.9	71.4	121.31	4172	13,598	13,223	4,548	1,482



Rock source
Stock pile
Waste area
Bridge
Gate
Survey corner
Domestic water supply intake
Truck turn-around
Helicopter landing zone
Cultural site

Landing
Buffer
Non-required thinning
Cable yarding
Ground yarding
Helicopter yarding
Downhill yarding
Green tree retention area

Restricted area
Area boundary
Sale boundary
Ownership boundary
Perennial Type-F stream
Perennial Type-N stream
Unsurfaced road
Surfaced road
Paved road
Abandoned road

Swing road
Non-project road
Blocked road
OHV trail
Non-motorized trail
Transmission line
Railroad

LOGGING PLAN

Timber Sale Contract No. 341-13-058
BLUE MONEY
Portions of Sections 29 and 32, T1S, R7W, and Sections 5, 6, 7 and 8, T2S, R7W, and Section 1, T2S, R8W, W, W.M., Tillamook County, Oregon

N

1,000 0 1,000 Feet

Area	Type of Operation	Acres Gross	Net
1	Partial cut	131	123
2	Modified clearcut	102	88
3	Partial cut	38	34
4	Modified clearcut	122	109
Total		393	354

Tillamook District GIS
06-28-2012
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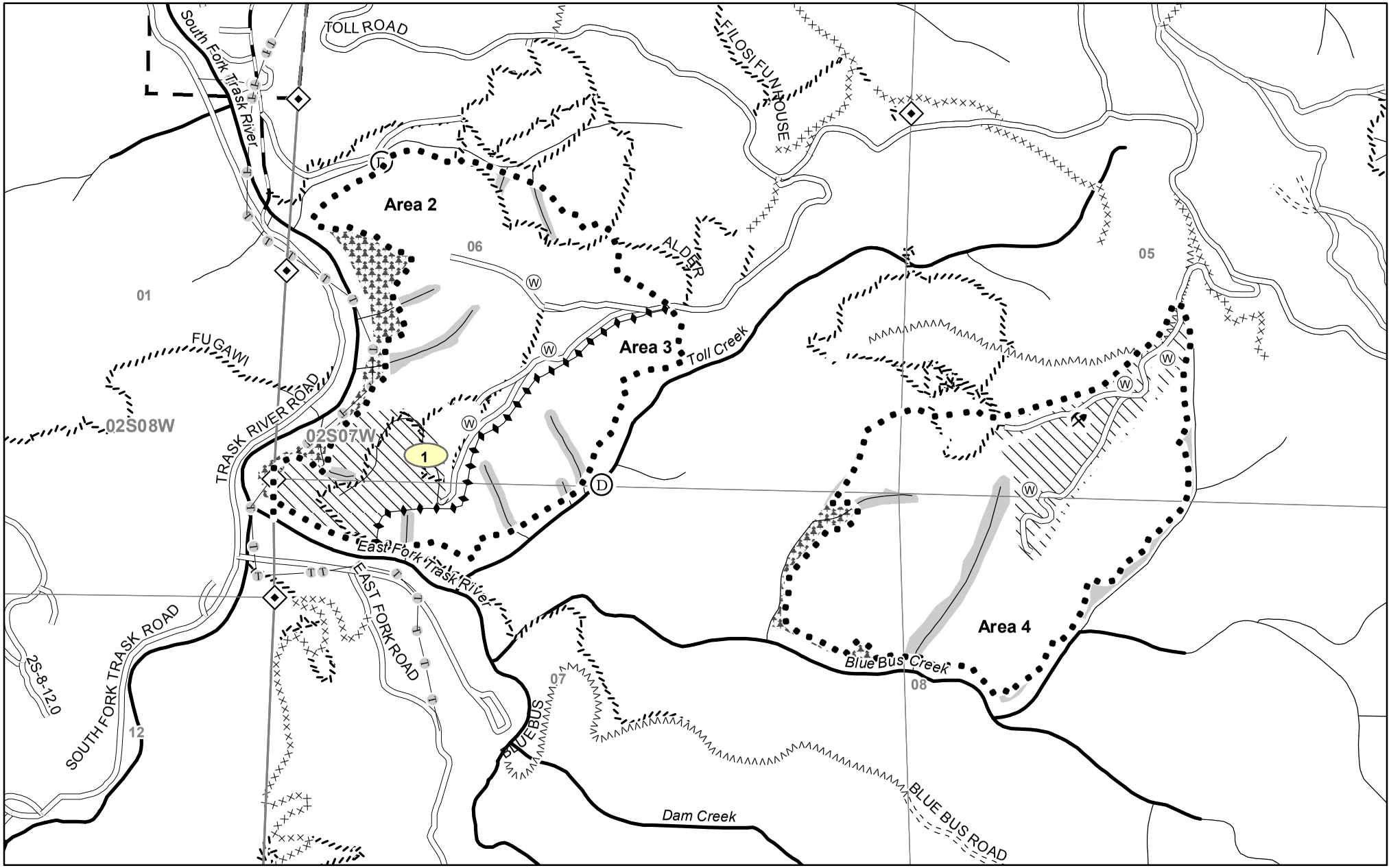

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