"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Bling Ridge

Sale TL-341-2015-83-

District: Tillamook

Date: February 11, 2015

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	$2,612,790.24	$124,598.76	$2,737,389.00
		Project Work:	($616,780.00)
		Advertised Value:	$2,120,609.00

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Timber Description

Location: Portions of Sections 5, 6, 7, 8, T1N, R7W, Section 1, T1N, R8W, Sections 31, 32, 33, T2N, R7W, and Section 36, T2N, R8W, W.M., Tillamook County, Oregon.

Stand Stocking: 60%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	16	0	95
Alder (Red)	14	0	95

Volume by Grade	2S	3S	4S	8" - 9"	10" - 11"	12"+	6" - 7"	Total
Douglas - Fir	3,600	4,592	1,250	0	0	0	0	9,442
Alder (Red)	0	0	0	130	129	93	196	548
Total	3,600	4,592	1,250	130	129	93	196	9,990

Comments: Pond Values Used: 4th Quarter Calendar Year 2014.

Western redcedar and Other Cedars Stumpage Price = Pond Value minus Logging Cost:
$785/MBF = $1,175/MBF - $390/MBF

Western Hemlock and Other Conifers Stumpage Price = Pond Value minus Logging Cost:
$145/MBF = $535/MBF - $390/MBF

Pulp (Conifer and Hardwood) Price = $25/MBF

SCALING COST ALLOWANCE = $5.00/MBF

FUEL COST ALLOWANCE = $3.00/Gallon

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

Other Costs (with Profit & Risk to be added):
Brand and Paint: $2/MBF x 9,990 MBF = $19,980
Snag Creation, Girdling at Base: $10/tree x 978 trees = $9,780
Flagger on North Fork Wilson Road: 5 days x 9 hrs/day x $20/hr = $900
Truck Assist Area 2: 9 acres x 36 MBF/ac = 324 MBF x $20/MBF = $6,480
Truck Assist Area 4 from Point F: 16 acres x 11.6 MBF/ac = 186 MBF x $20/MBF = $3,720
Truck Assist Jones Creek Road, part of Area 3 and Area 4: Area 3, 58 acres x 17.9 MBF/ acre + Area 4, 1,232 MBF = 2,270 MBF x $20/ MBF = $45,400
Area 3, yarding over “dead ground”: 13 acres x 17.9 MBF/acre x $50/ MBF = $11,635
TOTAL Other Costs (with Profit & Risk to be added) = $97,895

Other Costs (No Profit & Risk added):
Machine Cleaning: $1,000/machine x 3 = $3,000
Equipment moving between Areas 1, 4, and 5: (4.4 miles x 3 pieces of equipment x $100/ hour)/ 2 MPH = $660
Cover materials for piles: $5/pile x 29 piles = $145
OHV Trail Filters: 12 x $75/filter = $900
Slash piling and sorting (Cable Ground): $5/ac x 475 ac = $2,375
TOTAL Other Costs (No Profit & Risk added) = $7,080

ROAD MAINTENANCE:
Spot rocking:
Deer Fence Road: 20 cy/mmbf/mile x $13.80/cy x 5.7 MMBF x 2.3 miles / 9,990 MBF = $ 0.36/MBF
Jones Creek Road: 20 cy/mmbf/mile x $13.80/cy x 3.0 MMBF x 2.5 miles / 9,990 MBF = $ 0.21/MBF
Diamond Mill Road: 20 cy/mmbf/mile x $13.80/cy x 10.0 MMBF x 3.6 miles/9,990 MBF = $ 0.99/MBF
North Fork Road: 20 cy/mmbf/mile x $13.80/cy x 10.0 MMBF x 1.8 miles / 9,990 MBF = $ 0.50/MBF
Total Spot Rocking: $2.06/MBF

Interim Maintenance Grading:
Deer Fence Road: $250/ mile x 2.3 miles x 3 times/ 9,990 MBF = $0.17/MBF
Jones Creek Road: $250/ mile x 2.5 miles x 2 times/9,990 MBF = $0.12/MBF
Diamond Mill Road: $250/mile x 3.6 miles x 5 times/ 9,990 MBF = $0.45/MBF
North Fork Road $250/ mile x 1.8 miles x 5 times/ 9,990 MBF = $0.23/MBF
Total Interim Maintenance Grading: $ 0.97/ MBF
Final Maintenance Grading: $500 x 10.2 miles/9,990 MBF = $0.51/ MBF
Final Maintenance Compaction: $950/mile x 5.4 miles/9,990 MBF = $0.51/MBF
Road Vacation K to L between Stations 27+00 and 48+00: $1,480/ 9,990 MBF = $0.15/ MBF
TOTAL Road Maintenance: $4.20/MBF

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Logging Conditions

Combination#: 1

Douglas - Fir	29.85%
Alder (Red)	32.85%

Logging System: Cable: Large Tower >=70

Process: Stroke Delimber

yarding distance: Long (1,500 ft)

downhill yarding: No

tree size: Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF

loads / day: 6

bd. ft / load: 3800

cost / mbf: $271.93

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

Combination#: 2

Douglas - Fir	66.24%

Logging System: Cable: Large Tower >=70

Process: Stroke Delimber

yarding distance: Medium (800 ft)

downhill yarding: No

tree size: Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF

loads / day: 10

bd. ft / load: 3500

cost / mbf: $177.14

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

Combination#: 3

Alder (Red)	65.13%

Logging System: Cable: Large Tower >=70

Process: Stroke Delimber

yarding distance: Medium (800 ft)

downhill yarding: No

tree size: Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF

loads / day: 6.2

bd. ft / load: 3500

cost / mbf: $285.71

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

Combination#: 4

Douglas - Fir	3.91%
Alder (Red)	2.03%

Logging System: Shovel

Process: Stroke Delimber

yarding distance: Short (400 ft)

downhill yarding: No

tree size: Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF

loads / day: 20

bd. ft / load: 3800

cost / mbf: $41.74

machines:
Stroke Delimber (B)

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
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Sale TL-341-2015-83-

District: Tillamook **Date: February 11, 2015**

Logging Costs

Operating Seasons:	2.00	**Profit Risk:**	15%
Project Costs:	$616,780.00	**Other Costs (P/R):**	$97,895.00
Slash Disposal:	$0.00	**Other Costs:**	$7,080.00

Miles of Road

Road Maintenance: $4.20

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
Alder (Red)	$0.00	3.0	3.3

OREGON DEPARTMENT OF FORESTRY

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Bling Ridge

Sale TL-341-2015-83-

District: Tillamook

Date: February 11, 2015

Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
Douglas - Fir									
$200.14	$4.41	$0.88	$117.00	$9.80	$49.83	$0.00	$5.00	$0.71	$387.77
Alder (Red)									
$276.24	$4.41	$0.88	$82.73	$9.80	$56.11	$0.00	$5.00	$0.71	$435.88

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	$0.00	$664.49	$276.72	$0.00
Alder (Red)	$0.00	$663.25	$227.37	$0.00

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Date: February 11, 2015

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	9,442	$276.72	$2,612,790.24
Alder (Red)	548	$227.37	$124,598.76

Gross Timber Sale Value

Recovery: $2,737,389.00

Prepared By: David Wells

Phone: 503-842-2545

OREGON DEPARTMENT OF FORESTRY
"STEWARDSHIP IN FORESTRY"

PROJECT SUMMARY SHEET

Sale: Bling Ridge

CONSTRUCTION

Point	I to J	32+00	stations =	$78,390.40
			SUBTOTAL CONSTRUCTION	**$78,390.40**

IMPROVEMENT

Point	A to B	119+30	stations =	$84,143.36
Point	C to D	224+60	stations =	$110,271.13
Point	E to F	96+50	stations =	$31,175.26
Point	M to N	206+00	stations =	$142,305.50
			SUBTOTAL IMPROVEMENT	**$367,895.25**

RECONSTRUCTION

Point	C to D	37+80	stations =	$22,541.29
Point	E to F	9+30	stations =	$7,281.83
Point	G to H	21+40	stations =	$2,257.12
Point	K to L	48+00	stations =	$32,316.71
Point	O to P	40+10	stations =	$981.40
Point	Q to R	14+95	stations =	$209.30
			SUBTOTAL RECONSTRUCTION	**$65,587.65**

VACATE

Point	O to P	18+60	stations=	$5,363.00
Point	Q to R	8+55	stations=	$3,780.38
			SUBTOTAL VACATE	**$9,143.38**

SPECIAL PROJECTS

Asphalt Paving of Bridge Approach (Including lift of 3/4"-0" rock)		A to B	0+00 to 1+00	$13,678.70
Point S Stockpile	1000.00	CY @	$12.90 / CY	$12,900.00
Point T Stockpile	1000.00	CY @	$13.43 / CY	$13,430.00
Point U Stockpile	1000.00	CY @	$19.55 / CY	$19,550.00
Brush	24.80	Miles @	$900.00 / Mile	$22,320.00
Rock Quarry Test Drilling	20 Drill Hrs.		4 Excavator Hrs	$4,880.00
			SUBTOTAL SPECIAL PROJECTS	**$86,758.70**

MOVE IN	**$9,004.62**
GRAND TOTAL	**$616,780.00**

SUMMARY OF CONSTRUCTION COST

Sale: **Bling Ridge** Road: **A to B**

Construction -	0+00	stations	Improvement -	119+30	stations	Reconstruction -	0+00	stations
	0.00	miles		2.26	miles		0.00	miles

CULVERTS - MATERIALS & INSTALLATION

Culverts							
210	LF of 18"	$3,675.00	0	LF of 24"	$0.00		
		$3,675.00			$0.00		
Culvert Stakes & Markers							
10	markers	$80.00					
		$80.00				**TOTAL CULVERTS**	**$3,755.00**

ROCK

1+00	to	14+00	760	cy. of	Crushed	@	$13.84	per c.y.=	$10,518.40	
14+00	to	119+30	4,750	cy. of	Crushed	@	$13.34	per c.y.=	$63,365.00	
Stockpile		Near Pt. B	40	cy. of	Jaw-Run	@	$10.64	per c.y.=	$425.60	
Stockpile		Near Pt. B	10	cy. of	Riprap	@	$7.44	per c.y.=	$74.40	
Energy Dissipator		53+00,62+60,81+90	15	cy. of	Riprap	@	$8.49	per c.y.=	$127.35	
Shoulder Surfacing		114+70	30	cy. of	Jaw-Run	@	$12.44	per c.y.=	$373.20	
Bedding/Backfill		Each Culvert	120	cy. of	Crushed	@	$11.49	per c.y.=	$1,378.80	
									TOTAL ROCK	**$76,262.75**

SPECIAL PROJECTS

Reshape pullout edge and construct swale at 87+60 -	1.00	hours @	$145.00	per hour	$145.00	
Grade and shape road -	119.30	stations @	$15.50	per station	$1,849.15	
Roll subgrade w/ vibratory roller prior to rocking -	119.30	stations @	$13.20	per station	$1,574.76	
Remove culverts from state lands	6.00	@	$507.50	total	$507.50	
Grass seed -	0.06	acres @	$220.00	per acre	$13.20	
Mulching -	0.060	acres @	$600.00	per acre	$36.00	
					TOTAL SPECIAL PROJECTS	**$4,125.61**

GRAND TOTAL **$84,143.36**

SUMMARY OF CONSTRUCTION COST

Sale:	**Bling Ridge**	Road:	**C to D**

Construction -	0+00	stations	Improvement -	224+60	stations	Reconstruction -	37+80	stations
	0.00	miles		4.25	miles		0.72	miles

IMPROVEMENT: CLEARING AND GRUBBING -

Widening	0.083	acres @	$1,500.00	per acre =	$124.50	
				TOTAL CLEARING AND GRUBBING		**$124.50**

IMPROVEMENT: EXCAVATION -

Widening	588	cy. @	$2.25	per c.y.=	$1,323.00	
				TOTAL EXCAVATION		**$1,323.00**

IMPROVEMENT: ENDHAUL -

Widening	163+00	to	164+50	376	cy. @	$3.21	per c.y.=	$1,206.96	
Widening	167+00	to	167+50	109	cy. @	$3.08	per c.y.=	$335.72	
Widening	167+50	to	167+80	59	cy. @	$3.08	per c.y.=	$181.72	
Widening	167+80	to	168+00	44	cy. @	$3.08	per c.y.=	$135.52	
Spread & compact				588	cy. @	$0.25	per c.y.=	$147.00	
							TOTAL ENDHAUL		**$2,006.92**

RECONSTRUCTION: CLEARING AND GRUBBING -

Side cast	0.082	acres @	$1,500.00	per acre =	$123.00	
Widening	0.082	acres @	$1,500.00	per acre =	$123.00	
Endhaul	0.690	acres @	$1,500.00	per acre =	$1,035.00	
				TOTAL CLEARING AND GRUBBING		**$1,281.00**

RECONSTRUCTION: EXCAVATION -

Road Earthwork	37.80	sta. @	$20.00	per sta. =	$756.00	
Pullback	217	cy. @	$1.40	per c.y.=	$303.80	
Widening	260	cy. @	$2.25	per c.y.=	$585.00	
				TOTAL EXCAVATION		**$1,644.80**

RECONSTRUCTION: ENDHAUL -

Pullback	248+85	to	249+85	130	cy. @	$3.08	per c.y.=	$400.40	
Pullback	252+90	to	253+90	87	cy. @	$3.31	per c.y.=	$287.97	
Widening	248+85	to	249+85	130	cy. @	$3.08	per c.y.=	$400.40	
Widening	252+90	to	253+90	130	cy. @	$3.31	per c.y.=	$430.30	
Spread & compact				477	cy. @	$0.25	per c.y.=	$119.25	
							TOTAL ENDHAUL		**$1,638.32**

CULVERTS - MATERIALS & INSTALLATION

Culverts

210	LF of 18"	$3,675.00	65	LF of 24"	$1,755.00	
80	LF of 30"	$2,880.00	0	LF of 36"	$0.00	
		$6,555.00			$1,755.00	

Culvert Stakes & Markers

21	markers	$168.00				
		$168.00			**TOTAL CULVERTS**	**$8,478.00**

ROCK

0+00 to	189+80	4,880	cy. of	Crushed	@	$13.89	per c.y.=	$67,783.20	
189+80 to	262+40	2,580	cy. of	Jaw-Run	@	$10.73	per c.y.=	$27,683.40	
Traction (Inc. 2 TOs)	227+20 - 241+20	240	cy. of	Crushed	@	$15.75	per c.y.=	$3,780.00	
Landing Rock	254+40,262+40	160	cy. of	Jaw-Run	@	$11.45	per c.y.=	$1,832.00	
Stockpile	222+30	20	cy. of	Riprap	@	$5.91	per c.y.=	$118.20	
Junction Rock	0+00	20	cy. of	Crushed	@	$12.66	per c.y.=	$253.20	
Corner Widening	163+75,167+50	50	cy. of	Crushed	@	$14.83	per c.y.=	$741.50	
Energy Dissipator	Each Culvert	50	cy. of	Riprap	@	$6.93	per c.y.=	$346.50	
Bedding/Backfill	D. Mill Culverts	60	cy. of	Crushed	@	$11.90	per c.y.=	$714.00	
								TOTAL ROCK	**$103,252.00**

SPECIAL PROJECTS

Construct outlet ditch at 3+00 -	1.00	hours @	$145.00	per hour	$145.00	
Construct landing at 262+40 -	1.00	@	$300.00	each	$300.00	
Improve landing at 254+40 -	1.00	@	$150.00	each	$150.00	
Reconstruct subgrade @ area of 246+70 -	2.00	hours @	$130.00	per hour	$260.00	
Pull ditch and endhaul material where needed -	30.00	stations @	$100.00	per station	$3,000.00	
Construct turnarounds before landings -	3.00	@	$75.00	each	$225.00	
Grade and shape road -	262.40	stations @	$15.50	per station	$4,067.20	
Clean bank ravel out of ditch and endhaul from 31+40 to 54+60 -	170.00	CY @	$4.40	each	$748.00	
Roll subgrade w/ vibratory roller prior to rocking -	262.40	stations @	$13.20	per station	$3,463.68	
Remove culverts from state lands	7.00	@	$550.40	total	$550.40	
Grass seed and fertilize -	0.43	acres @	$220.00	per acre	$94.60	
Mulching -	0.100	acres @	$600.00	per acre	$60.00	
				TOTAL SPECIAL PROJECTS		**$13,063.88**

GRAND TOTAL	**$132,812.42**

SUMMARY OF CONSTRUCTION COST

Sale: **Bling Ridge** Road: **E to F**

Construction -	0+00	stations	Improvement -	96+50	stations	Reconstruction -	9+30	stations
	0.00	miles		1.83	miles		0.18	miles

IMPROVEMENT: CLEARING AND GRUBBING -

Widening	0.086	acres @	$1,500.00	per acre =	$129.00	
				TOTAL CLEARING AND GRUBBING		**$129.00**

IMPROVEMENT: EXCAVATION -

Widening	270	cy. @	$1.40	per c.y.=	$378.00	
				TOTAL EXCAVATION		**$378.00**

IMPROVEMENT: ENDHAUL -

Widening	4+90	to	5+60	31	cy. @	$3.56	per c.y.=	$110.36	
Widening	35+90	to	38+30	174	cy. @	$2.85	per c.y.=	$495.90	
Widening	39+10	to	40+00	65	cy. @	$3.01	per c.y.=	$195.65	
Spread & compact				270	cy. @	$0.25	per c.y.=	$67.50	
							TOTAL ENDHAUL		**$869.41**

RECONSTRUCTION: CLEARING AND GRUBBING -

Widening	0.107	acres @	$1,500.00	per acre =	$160.50	
Scattering	0.210	acres @	$980.00	per acre =	$205.80	
				TOTAL CLEARING AND GRUBBING		**$366.30**

RECONSTRUCTION: EXCAVATION -

Widening	860	cy. @	$1.40	per c.y.=	$1,204.00	
				TOTAL EXCAVATION		**$1,204.00**

RECONSTRUCTION: ENDHAUL -

Widening	97+00	to	97+80	194	cy. @	$2.93	per c.y.=	$568.42	
Widening	97+80	to	99+30	260	cy. @	$2.99	per c.y.=	$777.40	
Widening	99+30	to	102+80	406	cy. @	$3.15	per c.y.=	$1,278.90	
Spread & compact				860	cy. @	$0.25	per c.y.=	$215.00	
							TOTAL ENDHAUL		**$2,839.72**

ROCK

43+70	to	96+50	1,890	cy. of	Jaw-Run	@	$12.05	per c.y.=	$22,774.50	
18+70	to	32+40	240	cy. of	Crushed	@	$14.92	per c.y.=	$3,580.80	
Spot Rock		0+00-43+70	100	cy. of	Crushed	@	$13.11	per c.y.=	$1,311.00	
Landing Rock		96+50	60	cy. of	Jaw-run	@	$12.39	per c.y.=	$743.40	
Stockpile		71+50	10	cy. of	Riprap	@	$7.04	per c.y.=	$70.40	
Stockpile		71+50	40	cy. of	Jaw-Run	@	$10.24	per c.y.=	$409.60	
								TOTAL ROCK		**$28,889.70**

SPECIAL PROJECTS

Construct waste areas -	1.00	hour @	$130.00	per hour	$130.00	
Improve landings at 96+50 & 105+80 -	2.00	@	$250.00	each	$500.00	
Grade and shape road -	105.80	stations @	$14.00	per station	$1,481.20	
Construct turnarounds before landings -	2.00	@	$75.00	each	$150.00	
Roll subgrade w/ vibratory roller prior to rocking -	105.80	stations @	$13.20	per station	$1,396.56	
Grass seed and fertilize -	0.56	acres @	$220.00	per acre	$123.20	
				TOTAL SPECIAL PROJECTS		**$3,780.96**

GRAND TOTAL **$38,457.09**

SUMMARY OF CONSTRUCTION COST

Sale: **Bling Ridge** Road: **G to H**

Construction -	0+00	stations	Improvement -	0+00	stations	Reconstruction -	21+40	stations
	0.00	miles		0.00	miles		0.41	miles

RECONSTRUCTION: CLEARING AND GRUBBING -

Scattering	0.393	acres @	$980.00	per acre =	$385.14	
				TOTAL CLEARING AND GRUBBING		**$385.14**

RECONSTRUCTION: EXCAVATION -

Road Earthwork	21.40	sta. @	$10.00	per sta. =	$214.00	
				TOTAL EXCAVATION		**$214.00**

ROCK

0+00	to	1+00	50	cy. of	Jaw-Run	@	$10.93	per c.y.=	$546.50	
Junction Rock		0+00	20	cy. of	Jaw-Run	@	$10.93	per c.y.=	$218.60	
								TOTAL ROCK		**$765.10**

SPECIAL PROJECTS

Improve landing at 21+40 -	1.00	@	$150.00	each	$150.00	
Construct turnaround before landing -	1.00	@	$75.00	each	$75.00	
Grade and shape road -	21.40	stations @	$14.00	per station	$299.60	
Roll subgrade w/ vibratory roller prior to rocking -	21.40	stations @	$13.20	per station	$282.48	
Grass seed and fertilize -	0.39	acres @	$220.00	per acre	$85.80	
				TOTAL SPECIAL PROJECTS		**$892.88**

GRAND TOTAL **$2,257.12**

SUMMARY OF CONSTRUCTION COST

Sale: **Bling Ridge** Road: **I to J**

Construction -	32+00	stations	Improvement -	0+00	stations	Reconstruction -	0+00	stations
	0.61	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		32+00	25% - 85%	0.4	Outslope	$1,752	=	$56,064.00	
								TOTAL	**$56,064.00**

ROCK

0+00 to	32+00	1,720	cy. of	Jaw-Run	@	$11.20	per c.y.=	$19,264.00	
Landing Rock	31+70	80	cy. of	Jaw-Run	@	$11.40	per c.y.=	$912.00	
Junction Rock	0+00	20	cy. of	Jaw-Run	@	$10.99	per c.y.=	$219.80	
								TOTAL ROCK	**$20,395.80**

SPECIAL PROJECTS

Construct waste areas -	2.00	hours @	$130.00	per hour	$260.00	
Construct turnaround before landing -	1.00	@	$75.00	each	$75.00	
Grade and shape road -	32.00	stations @	$14.00	per station	$448.00	
Construct landing at 31+80 -	1.00	@	$250.00	each	$250.00	
Roll subgrade w/ vibratory roller prior to rocking -	32.00	stations @	$13.20	per station	$422.40	
Grass seed and fertilize -	2.16	acres @	$220.00	per acre	$475.20	
					TOTAL SPECIAL PROJECTS	**$1,930.60**

GRAND TOTAL **$78,390.40**

SUMMARY OF CONSTRUCTION COST

Sale:	**Bling Ridge**	Road:	**K to L**

Construction -	0+00	stations	Improvement -	0+00	stations	Reconstruction -	48+00	stations
	0.00	miles		0.00	miles		0.91	miles

RECONSTRUCTION: CLEARING AND GRUBBING -

Widening	0.139	acres @	$660.00	per acre =	$91.74	
Scattering	0.890	acres @	$980.00	per acre =	$872.20	
				TOTAL CLEARING AND GRUBBING		**$963.94**

RECONSTRUCTION: EXCAVATION -

Road Earthwork	48.00	sta. @	$10.00	per sta. =	$480.00	
Widening	1467	cy. @	$1.40	per c.y.=	$2,053.80	
				TOTAL EXCAVATION		**$2,533.80**

RECONSTRUCTION: ENDHAUL -

Widening	9+20	to	9+80	104	cy. @	$2.69	per c.y.=	$279.76	
Widening	11+90	to	12+50	104	cy. @	$2.77	per c.y.=	$288.08	
Widening	22+40	to	22+80	59	cy. @	$3.08	per c.y.=	$181.72	
Widening	26+60	to	27+40	555	cy. @	$3.22	per c.y.=	$1,787.10	
Widening	28+70	to	29+30	87	cy. @	$3.28	per c.y.=	$285.36	
Widening	30+10	to	30+90	186	cy. @	$3.32	per c.y.=	$617.52	
Widening	35+70	to	36+30	186	cy. @	$3.49	per c.y.=	$649.14	
Widening	38+90	to	39+70	186	cy. @	$3.59	per c.y.=	$667.74	
Spread & compact				1467	cy. @	$0.25	per c.y.=	$366.75	
							TOTAL ENDHAUL		**$5,123.17**

CULVERTS - MATERIALS & INSTALLATION

Culverts						
130	LF of 18"	$2,275.00	70	LF of 24"	$1,890.00	
		$2,275.00			$1,890.00	
Culvert Stakes & Markers						
6	markers	$48.00				
		$48.00		**TOTAL CULVERTS**		**$4,213.00**

ROCK

0+00	to	27+00	970	cy. of	Jaw-Run	@	$11.90	per c.y.=	$11,543.00	
7+50	to	17+50	180	cy. of	Crushed	@	$15.24	per c.y.=	$2,743.20	
Landing Rock		27+00	80	cy. of	Jaw-run	@	$12.07	per c.y.=	$965.60	
Junction Rock		0+00	20	cy. of	Jaw-run	@	$11.72	per c.y.=	$234.40	
Energy Dissipator		Each Pipe	30	cy. of	Riprap	@	$7.96	per c.y.=	$238.80	
Surface Over 4 Pipes		29+00 - 39+30	120	cy. of	Jaw-run	@	$12.21	per c.y.=	$1,465.20	
								TOTAL ROCK		**$17,190.20**

SPECIAL PROJECTS

Construct waste areas -	1.00	hours @	$130.00	per hour	$130.00	
Improve landings at 25+70 & 48+00 -	2.00	@	$150.00	each	$300.00	
Construct turnarounds before landings -	2.00	@	$75.00	each	$150.00	
Grade and shape road -	48.00	stations @	$14.00	per station	$672.00	
Roll subgrade w/ vibratory roller prior to rocking -	48.00	stations @	$13.20	per station	$633.60	
Grass seed and fertilize -	1.25	acres @	$220.00	per acre	$275.00	
Mulching -	0.220	acres @	$600.00	per acre	$132.00	
				TOTAL SPECIAL PROJECTS		**$2,292.60**

GRAND TOTAL	**$32,316.71**

SUMMARY OF CONSTRUCTION COST

Sale: **Bling Ridge** Road: **M to N**

Construction -	0+00	stations	Improvement -	206+00	stations	Reconstruction -	0+00	stations
	0.00	miles		3.90	miles		0.00	miles

CULVERTS - MATERIALS & INSTALLATION

Culverts

0	LF of 30"	$0.00	40	LF of 36"	$2,115.00
		$0.00			$2,115.00

Culvert Stakes & Markers

1 markers	$8.00		
	$8.00	**TOTAL CULVERTS**	**$2,123.00**

ROCK

0+00	to	162+00	7,280	cy. of	Crushed	@	$14.94	per c.y.=	$108,763.20	
162+00	to	206+00	1,550	cy. of	Crushed	@	$15.66	per c.y.=	$24,273.00	
Junction Rock		0+00	20	cy. of	Crushed	@	$14.37	per c.y.=	$287.40	
Energy Dissipator		92+50	10	cy. of	Riprap	@	$14.89	per c.y.=	$148.90	
Bedding/Backfill		92+50	30	cy. of	Crushed	@	$13.81	per c.y.=	$414.30	
									TOTAL ROCK	**$133,886.80**

SPECIAL PROJECTS

Grade and shape road -	206.00	stations @	$15.50	per station	$3,193.00	
Roll subgrade w/ vibratory roller prior to rocking -	206.00	stations @	$13.20	per station	$2,719.20	
Remove culverts from state lands	2.00	@	$342.50	total	$342.50	
Grass seed and fertilize -	0.05	acres @	$220.00	per acre	$11.00	
Mulching -	0.050	acres @	$600.00	per acre	$30.00	
					TOTAL SPECIAL PROJECTS	**$6,295.70**
					GRAND TOTAL	**$142,305.50**

SUMMARY OF CONSTRUCTION COST

Sale: **Bling Ridge** Road: **O to P**

Construction -	0+00	stations	Vacate -	18+60	stations	Reconstruction -	40+10	stations
	0.00	miles		0.35	miles		0.76	miles

VACATE: CLEARING AND GRUBBING -

Side cast	0.034	acres @	$660.00	per acre =	$22.44	
Scattering	0.380	acres @	$980.00	per acre =	$372.40	
				TOTAL CLEARING AND GRUBBING		**$394.84**

VACATE: EXCAVATION -

Pullback	1373	cy. @	$1.40	per c.y.=	$1,922.20	
				TOTAL EXCAVATION		**$1,922.20**

VACATE: ENDHAUL -

Pullback	0+00	to	0+60	687	cy. @	$3.13	per c.y.=	$2,150.31	
Spread & compact				687	cy. @	$0.25	per c.y.=	$171.75	
							TOTAL ENDHAUL		**$2,322.06**

ROCK

Road Block	40+70	10	cy. of	Riprap	@	$8.80	per c.y.=	$88.00	
							TOTAL ROCK		**$88.00**

SPECIAL PROJECTS

Construct waterbars on vacated segment (40+10 to 58+70) -	8.00	@	$25.00	each	$200.00	
Grade and shape road -	40.10	stations @	$14.00	per station	$561.40	
ReConstruct large waterbars after fill removal (0+00 to 40+10) -	12.00	@	$35.00	each	$420.00	
Remove culverts from state lands	1.00	@	$302.90	total	$302.90	
Grass seed and fertilize -	0.16	acres @	$220.00	per acre	$35.20	
Mulching -	0.163	acres @	$600.00	per acre	$97.80	
				TOTAL SPECIAL PROJECTS		**$1,617.30**

GRAND TOTAL **$6,344.40**

SUMMARY OF CONSTRUCTION COST

Sale: **Bling Ridge** Road: **Q to R**

Construction -	0+00	stations	Vacate -	8+55	stations	Reconstruction -	14+95	stations
	0.00	miles		0.16	miles		0.28	miles

VACATE: CLEARING AND GRUBBING -									
Scattering				0.140	acres @	$980.00	per acre =	$137.20	
							TOTAL CLEARING AND GRUBBING		**$137.20**
VACATE: EXCAVATION -									
Pullback				1032	cy. @	$1.40	per c.y.=	$1,444.80	
							TOTAL EXCAVATION		**$1,444.80**
VACATE: ENDHAUL -									
Pullback	0+00	to	0+55	516	cy. @	$2.93	per c.y.=	$1,511.88	
Spread & compact				516	cy. @	$0.25	per c.y.=	$129.00	
							TOTAL ENDHAUL		**$1,640.88**
ROCK									
Road Block	15+50	10	cy. of	Riprap	@	$8.80	per c.y.=	$88.00	
							TOTAL ROCK		**$88.00**
SPECIAL PROJECTS									
Construct waterbars on vacated segment (14+95 to 23+50) -				2.00	@	$25.00	each	$50.00	
Grade and shape road -				14.95	stations @	$14.00	per station	$209.30	
Remove culverts from state lands				1.00	@	$302.90	total	$302.90	
Grass seed and fertilize -				0.14	acres @	$220.00	per acre	$30.80	
Mulching -				0.143	acres @	$600.00	per acre	$85.80	
							TOTAL SPECIAL PROJECTS		**$678.80**
							GRAND TOTAL		**$3,989.68**

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Pit:	Jaw_Run	Location:	SE 1/4, SE 1/4, Sec. 30, T2N, R7W, W.M.	
Sale:	**Bling Ridge**		Road:	8015 c.y.
Swell:	1.40		Stockpile:	c.y.
Shirinkage	1.16		Total Truck Loads:	8015 c.y.
Drill Pct.:	100%		In Place Total:	5725 c.y.

Pit Development & Cleanup including access roads & clearing and grubbing of Waste Area. Place overburden in waste area, spread and compact.	$3,588.92

Drill & Shoot:	$2.50	/cu.yd.	x	5725	cu.yds.	=	$14,312.50
Load Crusher:	$0.70	/cu.yd.	x	7910	cu.yds.	=	$5,537.00
Crush Rock:	$2.60	/cu.yd.	x	7910	cu.yds.	=	$20,566.00
Load Dump Truck:	$0.70	/cu.yd.	x	8015	cu.yds.	=	$5,610.50
						Subtotal	$49,614.92

Move In/Set-up Crusher	1	@	$1,410.37		$1,410.37
Move In and set up Drill and Compressor	1	@	$649.75	=	$649.75
Move in Roller and Compactor	1	@	$649.75	=	$649.75
Move in Grader	1	@	$211.70	=	$211.70
Move in Excavator	1	@	$1,043.87	=	$1,043.87
Move in Trucks	3	@	$215.79	=	$647.37
				Subtotal	$4,612.81
				TOTAL PRODUCTION COSTS	$54,227.73

Base Cost= $6.77 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 Stockpile (Jaw-Run)	3.27	0.60	6.77	10.64	40		$425.60
A to B Stockpile (Riprap)	3.27	0.60	3.57	7.44	10		$74.40
A to B Energy Dissipator (Riprap)	3.52	1.40	3.57	8.49	15		$127.35
A to B Shoulder Surfacing (Jaw-Run)	3.22	2.45	6.77	12.44	30		$373.20
C to D 18980 26240 (Jaw-Run)	1.51	2.45	6.77	10.73	2580		$27,683.40
C to D Landing Rock (Jaw-Run)	2.23	2.45	6.77	11.45	160		$1,832.00
C to D Stockpile (Riprap)	1.74	0.60	3.57	5.91	20		$118.20
C to D Energy Dissipator (Riprap)	1.96	1.40	3.57	6.93	50		$346.50
E to F 4370 9650 (Jaw-Run)	2.83	2.45	6.77	12.05	1890		$22,774.50
E to F Landing Rock (Jaw-run)	3.17	2.45	6.77	12.39	60		$743.40
E to F Stockpile (Riprap)	2.87	0.60	3.57	7.04	10		$70.40
E to F Stockpile (Jaw-Run)	2.87	0.60	6.77	10.24	40		$409.60
G to H 0 100 (Jaw-Run)	1.71	2.45	6.77	10.93	50		$546.50
G to H Junction Rock (Jaw-Run)	1.71	2.45	6.77	10.93	20		$218.60
I to J 0 3200 (Jaw-Run)	1.98	2.45	6.77	11.20	1720		$19,264.00
I to J Landing Rock (Jaw-Run)	2.18	2.45	6.77	11.40	80		$912.00
I to J Junction Rock (Jaw-Run)	1.77	2.45	6.77	10.99	20		$219.80
K to L 0 2700 (Jaw-Run)	2.68	2.45	6.77	11.90	970		$11,543.00
K to L Landing Rock (Jaw-run)	2.85	2.45	6.77	12.07	80		$965.60
K to L Junction Rock (Jaw-run)	2.50	2.45	6.77	11.72	20		$234.40
K to L Energy Dissipator (Riprap)	2.99	1.40	3.57	7.96	30		$238.80
K to L Surface Over 4 Pipes (Jaw-run)	2.99	2.45	6.77	12.21	120		$1,465.20
				Total C.Y.	8015	Sub Total	$90,586.45

TOTAL ROCKING COSTS	$90,586.45

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Pit:	Jordan_Crushed	Location:	NE 1/4, NE 1/4, Sec. 32, T1N, R7W, W.M.	
Sale:	**Bling Ridge**		Road:	10890 c.y.
Swell:	1.40		Stockpile:	c.y.
Shirinkage	1.16		Total Truck Loads:	10890 c.y.
Drill Pct.:	100%		In Place Total:	7779 c.y.

Pit Development & Cleanup including access roads & clearing and grubbing of Waste Area. Place overburden in waste area, spread and compact. $12,075.55

Drill & Shoot:	$2.50	/cu.yd.	x	7779	cu.yds.	=	$19,447.50
Push Rock:	$0.70	/cu.yd.	x	10880	cu.yds.	=	$7,616.00
Load Crusher:	$0.70	/cu.yd.	x	10880	cu.yds.	=	$7,616.00
Crush Rock:	$3.00	/cu.yd.	x	10880	cu.yds.	=	$32,640.00
Load Dump Truck:	$0.70	/cu.yd.	x	10890	cu.yds.	=	$7,623.00
						Subtotal	$87,018.05

Move In/Set-up Crusher	1	@	$3,685.74	=	$3,685.74
Move In and set up Drill and Compressor	1	@	$649.75	=	$649.75
Move in Roller and Compactor	1	@	$649.75	=	$649.75
Move in Grader	1	@	$211.70	=	$211.70
Move in Loader	1	@	$799.17	=	$799.17
Move in Excavator	1	@	$1,043.87	=	$1,043.87
Move in Trucks	3	@	$215.79	=	$647.37
Move in Water Truck	1	@	$253.64	=	$253.64
				Subtotal	$7,940.99

TOTAL PRODUCTION COSTS $94,959.04

Base Cost= $8.72 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
M to N 0 16200 (Crushed)	3.77	2.45	8.72	14.94	7280		$108,763.20
M to N 16200 20600 (Crushed)	4.49	2.45	8.72	15.66	1550		$24,273.00
M to N Junction Rock (Crushed)	3.20	2.45	8.72	14.37	20		$287.40
M to N Energy Dissipator (Riprap)	8.97	1.40	4.52	14.89	10		$148.90
M to N Bedding/Backfill (Crushed)	4.49	0.60	8.72	13.81	30		$414.30
Point S Stockpile (Crushed)	1.71	1.60	8.72	12.03	1000		$12,030.00
Point T Stockpile (Crushed)	1.98	1.60	8.72	12.30	1000		$12,300.00
				Total C.Y.	10890	Sub Total	$158,216.80

TOTAL ROCKING COSTS $158,216.80

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Pit:	Morris_Crushed	Location:	NE 1/4, NW 1/4, Sec 33, T2N, R7W, W.M.	
Sale:	**Bling Ridge**		Road:	11400 c.y.
Swell:	1.40		Stockpile:	c.y.
Shirinkage	1.16		Total Truck Loads:	11400 c.y.
Drill Pct.:	100%		In Place Total:	8143 c.y.

Pit Development & Cleanup including access roads & clearing and grubbing of Waste Area. Place overburden in waste area, spread and compact. $10,110.35

Drill & Shoot:	$2.50	/cu.yd.	x	8143	cu.yds.	=	$20,357.50
Push Rock:	$0.70	/cu.yd.	x	11400	cu.yds.	=	$7,980.00
Load Crusher:	$0.70	/cu.yd.	x	11400	cu.yds.	=	$7,980.00
Crush Rock:	$3.00	/cu.yd.	x	11400	cu.yds.	=	$34,200.00
Load Dump Truck:	$0.70	/cu.yd.	x	11400	cu.yds.	=	$7,980.00
						Subtotal	$88,607.85

Move In/Set-up Crusher	1	@	$4,265.74	=	$4,265.74
Move In and set up Drill and Compressor	1	@	$649.75	=	$649.75
Move in Roller and Compactor	1	@	$649.75	=	$649.75
Move in Grader	1	@	$211.70	=	$211.70
Move in D-8	1	@	$947.93	=	$947.93
Move in Loader	1	@	$799.17	=	$799.17
Move in Excavator	1	@	$1,043.87	=	$1,043.87
Move in Trucks	3	@	$215.79	=	$647.37
Move in Water Truck	1	@	$253.64	=	$253.64
				Subtotal	$9,468.92

TOTAL PRODUCTION COSTS $98,076.77

Base Cost= $8.60 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 100 1400 (Crushed)	2.79	2.45	8.60	13.84	760		$10,518.40
A to B 1400 11930 (Crushed)	2.29	2.45	8.60	13.34	4750		$63,365.00
A to B Bedding/Backfill (Crushed)	2.29	0.60	8.60	11.49	120		$1,378.80
C to D 0 18980 (Crushed)	2.84	2.45	8.60	13.89	4880		$67,783.20
C to D Traction (Inc. 2 TOs) (Crushed)	4.70	2.45	8.60	15.75	240		$3,780.00
C to D Junction Rock (Crushed)	1.61	2.45	8.60	12.66	20		$253.20
C to D Corner Widening (Crushed)	3.78	2.45	8.60	14.83	50		$741.50
C to D Bedding/Backfill (Crushed)	2.70	0.60	8.60	11.90	60		$714.00
E to F 1870 3240 (Crushed)	3.87	2.45	8.60	14.92	240		$3,580.80
E to F Spot Rock (Crushed)	2.06	2.45	8.60	13.11	100		$1,311.00
K to L 750 1750 (Crushed)	4.19	2.45	8.60	15.24	180		$2,743.20
				Total C.Y.	11400	Sub Total	$156,169.10

TOTAL ROCKING COSTS $156,169.10

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

Sale: **Bling Ridge**

LOWBOY HAUL (Round Trip)		
DIST. (mi)	ROADWAY	AVE SPEED (mph)
45.0	Pavement	30
12.0	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	Drill & Compressor	$745.20		$46.00	0.00	0.00	0	$0.00	$745.20
1	Brush Cutter	$724.50		$4.00	0.00	0.00	12	$48.00	$772.50
1	Excavators (Med.)	$861.27		$35.50	0.00	3.00	12	$426.00	$1,287.27
2	Excavators (Large)	$2,156.74	1	$44.80	0.00	3.00	12	$1,075.20	$3,231.94
1	Tractor (D8)	$1,016.93	2	$15.10	0.00	3.00	12	$181.20	$1,198.13
2	Dump Truck (10 cy +)	$532.92		$2.85	0.00	3.00	12	$68.40	$601.32
1	Dump Truck (Off Hiway)	$861.27	1	$4.75	0.00	3.00	12	$57.00	$918.27
1	Water Truck (1500 Gal)	$215.79		$2.85	0.00	0.00	12	$34.20	$249.99

TOTAL MOVE-IN COSTS: $9,004.62

OREGON DEPARTMENT OF FORESTRY
CRUISE REPORT
Bling Ridge

1. Type of Sale

Regeneration harvest, Recovery.

2. Legal Description

Portions of Sections 5, 6, 7, 8, T1N, R7W, Section 1, T1N, R8W, Sections 31, 32, 33, T2N, R7W, and Section 36, T2N, R8W, W.M., Tillamook County, Oregon.

3. Sale Acreage

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

	ACRES	
	Gross	Net
Area 1 (Modified Clearcut)	132	111
Area 2 (Modified Clearcut)	113	93
Area 3 (Modified Clearcut)	143	104
Area 4 (Modified Clearcut)	126	112
Area 5 (Modified Clearcut)	77	69

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

A. Cruise Method

The timber sale areas were variable plot cruised. Plot and line spacing was 350' and 700' respectively on different azimuths for the units to provide the uniform coverage. All conifers 8" DBH and greater containing 20 board feet and all hardwoods 10" DBH and greater containing 30 board feet were recorded. Species, DBH (to the nearest inch), merchantable bole length (to the nearest foot), form factor, and defect were recorded for all trees. Merchantable heights were recorded to 6" and 7" outside bark for conifers and hardwoods respectively.

B. Plot size

Plot size varied by Area the BAF used is as follows; Area 1-27.78 BAF, Area 2-40 BAF and Areas 3, 4, 5 – 20 BAF. Point of tree observation was either 04' or 16'.

C. Grading System

All trees were graded according to Columbia River Log Scaling and Grading Rules. Log lengths favored 40’ lengths.

5. Computation Procedure

Plot data was entered into SuperAce for computation of basal area, advertised volume, volume summary, log stock table, and stand table for each species and type.

Net sale acreage was used for volume calculation. Net acreage is the gross acreage (the area within the posted sale boundary) minus the posted buffer areas and roads.

Cruise Statistics (Board Foot Volumes)			
Area	Number of Plots	SE (%)	CV (%)
1	20	11.0	47.9
2	17	10.3	41.1
3	20	14.3	62.3
4	18	9.4	38.7
5	12	9.8	32.6
Total	87	6.6	62.0

6. Hidden Defect and Breakage

A reduction for hidden defect and breakage of 5% and 10% was applied to conifers and hardwoods respectively.

7. Timber Description

The entire area was burned in the 1933 Tillamook Fire and most of the Areas again in the 1939 Saddle Mountain and 1945 Wilson River Fires. Initial planting began in 1955 and was completed in 1959 with interplants in Area 1continuing through 1974. Alder was sprayed in 1977 primarily in Area 4 with 5-15 % of Areas 2, 3, and 5 also being treated. About 10% of Areas 1 and 2, and all of Area 5 were commercially thinned in 1996. Fifteen percent of Area 3 and 60% of Area 4 were commercially thinned in 2000.

Sale Area	Species	DBH	Merchantable Bole Height (feet)	Merchantable top (inches inside bark)
1	Douglas-fir	13.7	66	5
	Red alder	14.7	38	6
2	Douglas-fir	15.3	70	5
	Red alder	15.4	54	6

3	Douglas-fir	17.4	67	5
	Red alder	13.5	36	6
4	Douglas-fir	18.4	74	5
	Red alder	15.1	50	6
5	Douglas-fir	17.4	73	5
	Red alder	16.5	44	6

8. Cruiser Names/Dates

Cruised by service contract in 2012 and 2013 and District personnel in 2013 and 2014.

9. Revenue Distribution

FDF 100%

Tax Code: 23% 9-2, 77% 56

Deed Numbers: 35, 96, and 194

10. Attachments

Volume Summary

Stand Table

Log Stock Tables

Logging Plan

11. Stand and Log Stock Tables Species Key

DF – Douglas-fir take
RA – Red alder take
BM – Big leaf maple - reserved

OREGON DEPARTMENT OF FORESTRY

"STEWARDSHIP IN FORESTRY"

Bling Ridge

Volume Summary

Area 1-Modified Clearcut

111 acres

SPECIES	Cruised Net MBF/ Acre	Cruised Net MBF	Hidden D&B	Net Sale MBF
Douglas-fir	22.0	2438	5%	2316
Alder	2.5	276	10%	248
TOTAL	24.5	2714		2565

Areas 2-Modified Clearcut

93 acres

SPECIES	Cruised Net MBF/ Acre	Cruised Net MBF	Hidden D&B	Net Sale MBF
Douglas-fir	34.8	3239	5%	3077
Alder	1.2	113	10%	102
TOTAL	36.0	3352		3179

Areas 3-Modified Clearcut

104 acres

SPECIES	Cruised net MBF/ Acre	Cruised Net MBF	Hidden D&B	Net Sale MBF
Douglas-fir	16.9	1762	5%	1674
Alder	1.0	102	10%	92
TOTAL	17.9	1864		1766

Areas 4-Modified Clearcut

112 acres

SPECIES	Cruised Net MBF/ Acre	Cruised Net MBF	Hidden D&B	Net Sale MBF
Douglas-fir	10.8	1204	5%	1144
Alder	0.9	98	10%	88
TOTAL	11.6	1302		1232

Areas 5-Modified Clearcut

69 acres

SPECIES	Cruised Net MBF/ Acre	Cruised Net MBF	Hidden D&B	Net Sale MBF
Douglas-fir	18.8	1296	5%	1231
Alder	0.3	20	10%	18
TOTAL	19.1	1316		1249

TOTAL SALE VOLUME 489 acres

SPECIES	Cruised Net (MBF)	Net Sale (MBF)
Douglas-fir	9939	9442
Red Alder	609	548
TOTAL	10548	9990

TC TLOGSTVB

Log Stock Table - MBF

Project: **DEMO**

T02N R08W S36 TSALE **T02N R08W S36 TSAL**

Twp	**Rge**	**Sec**	**Tract**	**Type**	**Acres**	**Plots**	**Sample Trees**
02N	**08W**	**36**	**AREA_1**	**SALE**	**111.00**		

Page **1**
Date **11/13/2014**
Time **12:52:27PM**

	S	So	Gr	Log	Gross	%	Net	%	Net Volume by Scaling Diameter in Inches											
Spp	T	rt	de	Len	MBF	Def	MBF	Spc	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
DF		CO	2	32	29	5.0	27	1.2						12	15					
DF		CO	2	40	415	7.3	384	16.6						281	79	25				
DF		CO	3	20	10	5.0	10	.4				4	6							
DF		CO	3	21	2	5.0	1	.1		1										
DF		CO	3	22	15	5.0	15	.6					15							
DF		CO	3	32	19	20.8	15	.6			15									
DF		CO	3	36	6	5.0	6	.3			6									
DF		CO	3	38	14	11.8	12	.5					12							
DF		CO	3	40	1,592	6.4	1,490	64.3			455	635	383	17						
DF		CO	4	12	2	5.0	2	.1		2										
DF		CO	4	14	2	5.0	2	.1		2										
DF		CO	4	15	2	5.0	2	.1		2										
DF		CO	4	16	23	5.0	22	.9		19	3									
DF		CO	4	17	1	5.0	1	.1		1										
DF		CO	4	18	15	5.0	15	.6		15										
DF		CO	4	19	5	5.0	4	.2		4										
DF		CO	4	20	36	7.6	34	1.4		28	3	3								
DF		CO	4	21	5	5.0	5	.2		5										
DF		CO	4	22	3	5.0	3	.1		3										
DF		CO	4	23	5	5.0	4	.2		4										
DF		CO	4	24	35	5.0	33	1.4		33										
DF		CO	4	25	5	5.0	5	.2		5										
DF		CO	4	26	13	5.0	12	.5		12										
DF		CO	4	28	12	5.0	11	.5		11										
DF		CO	4	30	8	5.0	7	.3		7										
DF		CO	4	31	6	5.0	5	.2		5										
DF		CO	4	32	74	10.1	67	2.9		59	8									
DF		CO	4	33	4	5.0	4	.2		4										
DF		CO	4	34	14	5.0	14	.6		14										
DF		CO	4	36	13	5.0	13	.5		13										
DF		CO	4	39	9	28.8	7	.3		7										
DF		CO	4	40	89	5.0	85	3.7		85										
DF		Totals			2,484	6.7	2,316	90.3		341	489	642	416	310	94	25				
RA		H	2	16	13	10.0	11	4.6						11						
RA		H	2	20	45	10.0	41	16.3						10	30					
RA		H	2	24	19	10.0	17	6.9						17						
RA		H	3	18	9	10.0	8	3.2						8						
RA		H	3	34	15	10.0	13	5.3					13							
RA		H	3	40	23	10.0	21	8.4					21							
RA		H	4	20	2	10.0	2	.7			2									
RA		H	4	26	19	10.0	17	6.7			17									
RA		H	4	28	15	28.0	11	4.3			11									
RA		H	4	31	5	10.0	4	1.8			4									
RA		H	4	40	118	12.4	104	41.7			37	67								
RA		Totals			282	11.9	248	9.7			70	67	34	47	30					
Total All Species					2,766	7.3	2,565	100.0		341	560	708	450	356	124	25				

TC TSTNDSUM

Stand Table Summary

Project **DEMO**

T02N R08W S36 TSALE **T02N R08W S36 TSALE**

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
02N	08W	36	AREA_1	SALE	111.00		

Page: 1
Date: 11/13/2014
Time: 12:53:54PM

Spc	ST	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
DF		9	2	85	81	8.341	3.76	8.34	10.1	44.0	2.40	84	367	266	93	41
DF		10	8	87	100	26.408	14.33	32.05	12.3	55.5	11.23	394	1,779	1,246	437	198
DF		11	9	85	87	23.496	15.33	36.08	11.4	44.9	11.71	411	1,621	1,300	457	180
DF		12	9	87	95	19.071	15.06	33.40	13.5	54.3	12.84	451	1,815	1,425	501	201
DF		13	14	87	97	27.717	25.05	54.89	14.6	59.1	22.84	801	3,246	2,535	890	360
DF		14	8	87	101	12.878	13.71	25.76	17.5	70.7	12.82	450	1,821	1,423	499	202
DF		15	9	87	93	12.776	15.87	24.12	21.0	78.7	14.42	506	1,898	1,601	562	211
DF		16	9	86	102	11.646	15.99	23.29	24.0	90.1	15.91	559	2,100	1,766	620	233
DF		17	6	85	96	6.547	10.12	13.09	25.5	92.3	9.51	333	1,209	1,055	370	134
DF		18	7	86	103	6.586	11.55	12.86	31.2	116.8	11.45	402	1,501	1,271	446	167
DF		19	6	86	104	5.111	10.12	11.63	31.4	113.9	10.42	366	1,325	1,157	406	147
DF		20	6	86	101	4.916	10.57	10.47	35.4	126.4	10.57	371	1,323	1,173	412	147
DF		21	4	85	109	3.007	7.07	5.80	43.2	159.0	7.13	250	922	792	278	102
DF		22	2	85	113	1.241	3.22	3.01	40.0	161.4	3.43	120	485	381	134	54
DF		23	1	86	101	.620	1.84	1.24	56.1	215.0	1.98	69	266	220	77	30
DF		24	1	86	111	.599	1.84	1.20	60.3	240.0	2.06	72	288	228	80	32
DF		Totals	101	86	96	170.960	175.44	297.22	19.0	73.9	160.71	5,640	21,966	17,839	6,261	2,438
RA		10	2	79	47	7.693	4.41	3.31	10.6	40.0	.96	35	132	107	39	15
RA		12	4	84	74	9.856	7.80	9.86	19.3	63.9	5.24	191	630	582	212	70
RA		14	1	88	78	1.713	1.75	1.71	25.4	90.0	1.20	44	154	133	48	17
RA		15	2	87	50	2.959	3.63	2.96	24.4	95.5	1.99	72	283	221	80	31
RA		16	2	74	61	3.482	4.93	1.27	36.8	110.0	1.28	47	139	142	52	15
RA		17	5	85	70	4.946	7.80	7.87	25.8	94.2	5.60	203	741	621	226	82
RA		19	1	89	48	.891	1.75	.89	29.9	180.0	.73	27	160	81	30	18
RA		21	2	85	38	1.652	3.80	1.65	32.5	148.8	1.48	54	246	164	60	27
RA		Totals	19	83	61	33.192	35.88	29.52	22.7	84.2	18.48	672	2,485	2,051	745	276
Totals			120	86	91	204.151	211.32	326.74	19.3	74.8	179.19	6312	24,451	19,890	7,006	2,714

TC TLOGSTVB

Log Stock Table - MBF

Project: DEMO

T02N R07W S31 TSALE **T02N R07W S31 TSAL**

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
02N	07W	31	AREA_2	SALE	93.00		

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Date 11/13/2014
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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		CO	2	24	28	5.0	27	.9						16			11			
DF		CO	2	32	20	5.0	19	.6						19						
DF		CO	2	36	36	5.0	34	1.1							34					
DF		CO	2	40	1,117	5.6	1,055	34.3						618	214	223				
DF		CO	3	12	6	5.0	6	.2						6						
DF		CO	3	20	6	5.0	6	.2					6							
DF		CO	3	21	1	5.0	1	.0		1										
DF		CO	3	22	9	5.0	8	.3		1			7							
DF		CO	3	24	24	16.1	20	.6		3		8	9							
DF		CO	3	32	115	5.0	109	3.5			33	67	9							
DF		CO	3	34	11	5.0	11	.4					11							
DF		CO	3	36	20	5.0	19	.6				19								
DF		CO	3	40	1,377	5.1	1,307	42.5			306	416	585							
DF		CO	4	12	1	5.0	1	.0		1										
DF		CO	4	13	4	5.0	4	.1		1		3								
DF		CO	4	14	10	5.0	9	.3		9										
DF		CO	4	15	22	5.0	21	.7		15	5									
DF		CO	4	16	4	5.0	4	.1		4										
DF		CO	4	17	12	5.0	12	.4		12										
DF		CO	4	18	18	5.0	17	.6		17										
DF		CO	4	19	14	5.0	13	.4		12	1									
DF		CO	4	20	21	5.0	20	.6		9		11								
DF		CO	4	21	27	5.0	26	.8		11	9	5								
DF		CO	4	22	25	5.0	24	.8		17				6						
DF		CO	4	23	6	5.0	6	.2		6										
DF		CO	4	24	15	5.0	14	.5		12		3								
DF		CO	4	25	4	5.0	4	.1		4										
DF		CO	4	27	12	5.0	12	.4		12										
DF		CO	4	28	8	5.0	7	.2		7										
DF		CO	4	29	17	5.0	16	.5		16										
DF		CO	4	30	13	5.0	13	.4		13										
DF		CO	4	31	6	5.0	5	.2		5										
DF		CO	4	32	18	5.0	17	.5		17										
DF		CO	4	33	32	5.0	30	1.0		30										
DF		CO	4	34	47	5.0	44	1.4		44										
DF		CO	4	35	12	5.0	11	.4		11										
DF		CO	4	36	3	5.0	3	.1		3										
DF		CO	4	38	31	5.0	29	1.0		29										
DF		CO	4	39	38	5.0	36	1.2		36										
DF		CO	4	40	57	5.0	54	1.8		41	14									
DF		CO	4	41	5	5.0	4	.1		4										
DF				Totals	3,251	5.3	3,077	96.8		403	369	532	627	664	248	223	11			
RA		H	2	16	7	10.0	6	6.1						6						
RA		H	3	32	43	10.0	39	38.0					39							
RA		H	4	19	4	10.0	4	3.9			4									
RA		H	4	30	18	10.0	16	15.8			16									
RA		H	4	32	17	10.0	16	15.4				16								
RA		H	4	33	6	10.0	5	5.2			5									
RA		H	4	37	9	10.0	8	7.6			8									
RA		H	4	40	9	10.0	8	8.0				8								

TC TLOGSTVB

Log Stock Table - MBF

Project: **DEMO**

T02N R07W S31 TSALE **T02N R07W S31 TSAL**

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page	2
02N	07W	31	AREA_2	SALE	93.00			Date	11/13/2014
								Time	12:55:51PM

	S	So	Gr	Log	Gross	%	Net	%	Net Volume by Scaling Diameter in Inches											
Spp	T	rt	de	Len	MBF	Def	MBF	Spc	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
RA				Totals	113	10.0	102	3.2			33	24	39	6						
Total All Species					3,364	5.5	3,179	100.0		403	402	556	666	671	248	223	11			

TC TSTNDSUM

Stand Table Summary

Project **DEMO**

T02N R07W S31 TSALE **T02N R07W S31 TSALE**

Twp	**Rge**	**Sec**	**Tract**	**Type**	**Acres**	**Plots**	**Sample Trees**
02N	**07W**	**31**	**AREA_2**	**SALE**	93.00		

Page: 1
Date: 11/13/2014
Time: 12:56:51PM

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
DF		9	4	80	66	18.888	8.24	18.89	8.4	36.8	4.54	159	696	422	148	65
DF		10	2	79	73	8.133	4.71	8.13	12.6	40.0	2.92	103	325	272	95	30
DF		11	7	83	86	19.266	12.94	33.25	10.4	39.6	9.88	347	1,317	918	322	123
DF		12	8	87	80	20.971	16.47	37.45	11.7	45.6	12.46	437	1,708	1,159	407	159
DF		13	8	85	87	18.013	16.47	29.60	15.4	57.2	12.96	455	1,693	1,205	423	157
DF		14	8	83	96	15.656	16.47	29.11	18.2	64.7	15.12	530	1,883	1,406	493	175
DF		15	11	85	109	19.381	23.53	43.54	20.0	80.2	24.87	873	3,492	2,313	812	325
DF		16	11	86	107	14.326	20.00	32.84	22.7	93.4	21.29	746	3,067	1,980	694	285
DF		17	6	87	109	8.958	14.12	23.85	22.2	91.3	15.09	530	2,178	1,404	493	203
DF		18	15	86	112	16.783	29.41	38.88	28.6	111.0	31.65	1,110	4,317	2,943	1,033	401
DF		19	12	86	113	11.955	23.53	32.27	28.5	111.9	26.21	920	3,609	2,437	855	336
DF		20	10	86	109	8.646	18.82	21.60	32.4	124.3	19.95	700	2,685	1,855	651	250
DF		21	6	87	115	4.873	11.76	13.64	35.4	153.0	13.76	483	2,087	1,279	449	194
DF		22	4	85	103	2.716	7.06	7.26	35.7	134.3	7.39	259	975	687	241	91
DF		23	5	87	121	3.677	10.59	10.22	43.6	189.5	12.70	446	1,936	1,181	414	180
DF		24	1	83	124	.749	2.35	2.25	45.6	183.3	2.92	103	412	271	95	38
DF		25	1	89	116	.345	1.18	1.04	47.6	210.0	1.41	49	217	131	46	20
DF		26	5	84	115	2.548	9.41	7.64	49.7	203.0	10.84	380	1,552	1,008	354	144
DF		27	2	85	121	.904	3.53	2.71	55.9	251.2	4.32	152	681	402	141	63
DF		Totals	126	85	96	196.786	250.59	394.17	22.3	88.4	250.26	8,780	34,831	23,274	8,166	3,239
RA		13	2	81	63	2.496	2.35	3.72	15.5	46.7	1.58	58	174	147	54	16
RA		14	2	80	99	3.242	3.53	6.48	18.5	74.5	3.29	120	483	306	111	45
RA		16	1	81	100	1.750	2.35	3.50	21.6	85.0	2.08	76	298	194	70	28
RA		17	1	80	69	.746	1.18	1.49	21.1	80.0	.87	31	119	81	29	11
RA		18	1	83	49	.681	1.18	.68	37.6	70.0	.70	26	48	66	24	4
RA		20	1	81	56	1.079	2.35	1.08	51.0	90.0	1.50	55	97	140	51	9
RA		Totals	8	81	80	9.994	12.94	16.95	21.5	71.9	10.03	365	1,218	933	340	113
Totals			134	84	95	206.780	263.53	411.12	22.2	87.7	260.29	9146	36,049	24,207	8,505	3,353

TC TLOGSTVB

Log Stock Table - MBF

Project: **DEMO**

T02N R07W S31 TSALE

T02N R07W S31 TSAL

Twp	**Rge**	**Sec**	**Tract**	**Type**	**Acres**	**Plots**	**Sample Trees**
02N	**07W**	**31**	**AREA_3**	**SALE**	**104.00**		

Page **1**
Date **11/13/2014**
Time **12:58:37PM**

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		CO	2	32	26	5.0	24	1.5						18	6					
DF		CO	2	38	20	5.0	19	1.1									19			
DF		CO	2	40	810	5.7	764	45.6						326	220	206	13			
DF		CO	3	24	4	5.0	4	.2					4							
DF		CO	3	29	5	5.0	5	.3			5									
DF		CO	3	30	1	5.0	1	.1				1								
DF		CO	3	32	113	5.4	107	6.4			21	53	19	13						
DF		CO	3	34	4	5.0	4	.2			4									
DF		CO	3	35	3	5.0	3	.2				3								
DF		CO	3	36	4	5.0	3	.2				3								
DF		CO	3	38	18	5.0	18	1.0			4		14							
DF		CO	3	39	9	5.0	8	.5			8									
DF		CO	3	40	544	5.4	514	30.7			76	199	225	14						
DF		CO	4	12	1	5.0	1	.1		1										
DF		CO	4	13	1	5.0	1	.1		1										
DF		CO	4	14	2	5.0	2	.1		2										
DF		CO	4	15	2	5.0	2	.1		2										
DF		CO	4	16	9	5.0	9	.5		9										
DF		CO	4	17	4	5.0	4	.2		4										
DF		CO	4	18	5	5.0	5	.3		5										
DF		CO	4	19	4	5.0	4	.2		3	1									
DF		CO	4	20	8	5.0	7	.4		5	1	1								
DF		CO	4	21	4	5.0	4	.2		3	1									
DF		CO	4	22	8	5.0	8	.5		6	1	1								
DF		CO	4	23	12	5.0	11	.7		11										
DF		CO	4	24	8	5.0	7	.4		6	1									
DF		CO	4	25	18	5.0	18	1.0		16	1									
DF		CO	4	26	5	5.0	5	.3		3	1									
DF		CO	4	27	2	5.0	2	.1		2										
DF		CO	4	28	4	5.0	4	.2		4										
DF		CO	4	29	3	5.0	3	.2		2	1									
DF		CO	4	30	2	5.0	2	.1		2										
DF		CO	4	32	8	5.0	8	.5		8										
DF		CO	4	33	16	5.0	15	.9		15										
DF		CO	4	36	18	5.0	17	1.0		17										
DF		CO	4	37	12	5.0	11	.7		11										
DF		CO	4	38	11	5.0	11	.6		11										
DF		CO	4	39	4	5.0	4	.2		4										
DF		CO	4	40	39	5.0	37	2.2		37										
DF		Totals			1,771	5.5	1,674	94.8		189	126	262	262	371	226	206	32			
RA		H	3	24	7	19.0	5	5.8					5							
RA		H	3	32	8	16.4	7	7.5					7							
RA		H	4	18	1	10.0	1	1.2			1									
RA		H	4	19	6	10.0	5	5.8			5									
RA		H	4	22	2	10.0	2	1.9			2									
RA		H	4	23	5	10.0	4	4.7			4									
RA		H	4	28	6	10.0	6	6.1			6									
RA		H	4	29	5	32.5	3	3.3			3									
RA		H	4	30	5	32.5	4	3.9			4									
RA		H	4	31	9	19.5	7	8.1			7									
RA		H	4	32	15	16.7	13	13.7			13									

TC TLOGSTVB

Log Stock Table - MBF

Project: **DEMO**

T02N R07W S31 TSALE **T02N R07W S31 TSAL**

Twp	**Rge**	**Sec**	**Tract**	**Type**	**Acres**	**Plots**	**Sample Trees**
02N	**07W**	**31**	**AREA_3**	**SALE**	**104.00**		

Page **2**
Date **11/13/2014**
Time **12:58:37PM**

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+
RA		H	4	36	2	10.0	2	2.3			2									
RA		H	4	37	4	25.0	3	3.7			3									
RA		H	4	39	4	10.0	3	3.5			3									
RA		H	4	40	30	13.7	26	28.4			17	9								
RA		Totals			109	16.4	91	5.2			70	9	12							
Total All Species					1,880	6.1	1,766	100.0		189	197	271	274	371	226	206	32			

TC TSTNDSUM

Stand Table Summary

Project **DEMO**

T02N R07W S31 TSALE **T02N R07W S31 TSALE**

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
02N	07W	31	AREA_3	SALE	104.00		

Page: 1
Date: 11/13/2014
Time: 12:59:36PM

Spc	S T	DBH	Sample Trees	FF 16'	Av Ht Tot	Trees/ Acre	BA/ Acre	Logs Acre	Average Log Net Cu.Ft.	Net Bd.Ft.	Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals Tons	Cunits	MBF
DF		9	2	79	63	4.527	2.00	4.53	8.1	35.0	1.05	37	158	109	38	16
DF		10	3	87	82	5.930	3.23	5.93	9.4	40.0	1.58	55	237	164	58	25
DF		11	5	83	65	7.576	5.00	10.61	10.0	37.1	3.02	106	394	314	110	41
DF		12	2	87	80	2.546	2.00	5.09	10.6	42.5	1.54	54	216	160	56	23
DF		13	4	83	74	4.340	4.00	6.51	15.6	51.7	2.90	102	336	302	106	35
DF		14	6	87	84	6.105	6.53	11.00	16.8	64.4	5.26	184	709	547	192	74
DF		15	4	88	84	3.642	4.47	7.28	17.9	70.5	3.72	131	514	387	136	53
DF		16	12	85	88	9.310	13.00	18.11	21.3	83.6	10.99	386	1,514	1,143	401	157
DF		17	9	86	95	6.672	10.52	13.12	26.1	97.2	9.75	342	1,275	1,014	356	133
DF		18	12	84	90	7.590	13.41	14.25	28.5	99.7	11.58	406	1,421	1,204	422	148
DF		19	10	86	112	6.190	12.19	15.88	30.1	113.6	13.63	478	1,803	1,417	497	188
DF		20	11	84	101	5.771	12.59	13.48	32.7	117.4	12.57	441	1,583	1,307	459	165
DF		21	8	86	102	3.619	8.70	8.22	38.5	140.0	9.02	316	1,150	938	329	120
DF		22	4	84	88	1.515	4.00	3.03	43.7	146.2	3.77	132	443	393	138	46
DF		23	7	85	99	2.426	7.00	5.89	43.7	163.5	7.33	257	964	763	268	100
DF		24	5	83	94	1.704	5.35	3.20	50.5	186.8	4.60	162	598	479	168	62
DF		25	5	82	99	1.579	5.38	3.27	56.7	208.7	5.29	185	683	550	193	71
DF		26	4	82	98	1.180	4.35	2.73	56.9	210.3	4.42	155	574	460	161	60
DF		27	3	81	108	1.027	4.08	2.39	65.2	236.4	4.45	156	566	463	162	59
DF		28	5	81	87	1.398	5.98	2.76	68.7	240.3	5.41	190	664	562	197	69
DF		29	2	82	103	.436	2.00	1.09	69.7	270.0	2.17	76	294	225	79	31
DF		30	1	83	103	.204	1.00	.41	92.9	360.0	1.08	38	147	112	39	15
DF		31	2	80	89	.475	2.49	.76	105.8	346.3	2.29	80	263	238	83	27
DF		32	2	82	121	.445	2.49	1.16	88.7	381.0	2.93	103	441	304	107	46
DF		Totals	128	85	88	86.208	141.77	160.71	28.5	105.5	130.33	4,573	16,947	13,555	4,756	1,762
RA		10	1	69	36	1.833	1.00	1.83	7.0	20.0	.36	13	37	37	13	4
RA		11	3	79	97	4.546	3.00	6.06	15.0	52.5	2.48	91	318	258	94	33
RA		12	4	80	46	5.809	4.56	4.54	15.0	32.8	1.87	68	149	195	71	15
RA		13	3	82	43	3.255	3.00	2.17	17.1	35.0	1.02	37	76	106	38	8
RA		14	1	84	42	.935	1.00	.94	19.6	30.0	.50	18	28	52	19	3
RA		16	2	82	48	1.432	2.00	.72	29.5	50.0	.58	21	36	60	22	4
RA		17	3	80	52	2.260	3.56	2.89	20.5	50.7	1.63	59	147	170	62	15
RA		18	3	83	61	1.698	3.00	2.26	30.0	72.5	1.87	68	164	194	71	17
RA		22	1	84	51	.379	1.00	.38	44.1	60.0	.46	17	23	48	17	2
RA		Totals	21	80	57	22.148	22.13	21.79	18.0	44.8	10.77	392	977	1,120	408	102
Totals			149	84	82	108.356	163.89	182.50	27.2	98.2	141.10	4965	17,924	14,674	5,164	1,864

TC TLOGSTVB

Log Stock Table - MBF

Project: **DEMO**

T02N R07W S31 TSALE **T02N R07W S31 TSAL**

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	
02N	07W	31	AREA_4	SALE	112.00			

Page 1
Date 11/13/2014
Time 1:14:35PM

Spp	S T	So rt	Gr de	Log Len	Gross MBF	% Def	Net MBF	% Spc	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
DF		CO	2	20	11	5.0	10	.9								10				
DF		CO	2	21	6	11.3	6	.5							6					
DF		CO	2	32	33	5.0	31	2.7						16			16			
DF		CO	2	40	666	5.5	629	55.0						178	237	199	16			
DF		CO	3	32	76	7.9	70	6.1				35	30	5						
DF		CO	3	40	310	5.0	294	25.7			59	88	135	13						
DF		CO	4	15	1	5.0	1	.1		1										
DF		CO	4	16	4	5.0	4	.4		2	2									
DF		CO	4	17	1	5.0	1	.1		1										
DF		CO	4	18	3	5.0	3	.2		2		1								
DF		CO	4	19	3	5.0	3	.3		2		1								
DF		CO	4	20	7	5.0	7	.6		4	2									
DF		CO	4	21	4	5.0	4	.3		1	2	1								
DF		CO	4	22	1	5.0	1	.1		1										
DF		CO	4	23	2	5.0	2	.2		2										
DF		CO	4	25	1	5.0	1	.1			1									
DF		CO	4	26	2	5.0	2	.2		2										
DF		CO	4	27	4	5.0	4	.3		3	1									
DF		CO	4	28	11	5.0	10	.9		10										
DF		CO	4	29	2	5.0	2	.2		2										
DF		CO	4	30	8	5.0	8	.7		8										
DF		CO	4	31	4	5.0	4	.3		4										
DF		CO	4	33	8	5.0	8	.7		8										
DF		CO	4	34	3	5.0	3	.2		3										
DF		CO	4	35	3	5.0	3	.2		3										
DF		CO	4	36	9	5.0	9	.8		9										
DF		CO	4	38	14	5.0	14	1.2		14										
DF		CO	4	39	2	5.0	2	.2		2										
DF		CO	4	40	11	5.0	10	.9		10										
DF				Totals	1,211	5.5	1,144	92.9		92	67	125	165	212	243	209	32			
RA		H	3	40	53	17.0	44	49.9					44							
RA		H	4	20	1	10.0	1	1.4			1									
RA		H	4	23	3	10.0	3	3.6			3									
RA		H	4	26	3	10.0	2	2.7			2									
RA		H	4	32	22	10.0	20	22.3				9		10						
RA		H	4	37	5	25.0	4	4.0			4									
RA		H	4	40	17	16.3	14	15.9			6	8								
RA				Totals	104	15.2	88	7.1			16	18	44	10						
Total All Species					1,314	6.3	1,232	100.0		92	83	143	208	222	243	209	32			

TC TSTNDSUM

Stand Table Summary

Project **DEMO**

T02N R07W S31 TSALE

T02N R07W S31 TSALE

Page: **1**
Date: **11/13/201**
Time: **1:02:15PM**

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
02N	**07W**	**31**	**AREA_4**	**SALE**	112.00		

					Av				Average Log			Net	Net	Totals		
	S		Sample	FF	Ht	Trees/	BA/	Logs	Net	Net	Tons/	Cu.Ft.	Bd.Ft.			
Spc	**T**	**DBH**	**Trees**	**16'**	**Tot**	**Acre**	**Acre**	**Acre**	**Cu.Ft.**	**Bd.Ft.**	**Acre**	**Acre**	**Acre**	**Tons**	**Cunits**	**MBF**
DF		9	2	83	55	5.030	2.22	5.03	7.7	30.0	1.11	39	151	124	44	17
DF		13	3	87	108	3.616	3.33	7.23	16.1	68.3	3.31	116	494	371	130	55
DF		14	2	88	92	2.079	2.22	4.16	16.3	62.5	1.93	68	260	216	76	29
DF		15	4	84	71	3.622	4.44	5.43	20.6	65.0	3.19	112	353	357	125	40
DF		16	2	87	97	1.592	2.22	3.18	23.4	92.5	2.13	75	294	238	84	33
DF		17	4	86	96	2.820	4.44	5.64	25.7	100.0	4.14	145	564	463	163	63
DF		18	6	88	95	3.773	6.67	7.55	30.1	114.2	6.47	227	861	725	254	96
DF		19	3	85	93	1.693	3.33	3.39	32.7	115.0	3.15	111	389	353	124	44
DF		20	9	87	102	4.584	10.00	9.68	37.5	137.9	10.35	363	1,334	1,159	407	149
DF		21	6	87	108	2.772	6.67	7.39	34.7	139.4	7.30	256	1,030	818	287	115
DF		22	5	86	109	2.105	5.56	5.05	42.3	171.7	6.09	214	867	682	239	97
DF		23	8	87	110	3.081	8.89	8.09	43.4	181.4	10.00	351	1,467	1,120	393	164
DF		24	2	86	115	.707	2.22	2.12	39.7	176.7	2.40	84	375	269	94	42
DF		25	2	86	112	.652	2.22	1.63	53.8	224.0	2.50	88	365	280	98	41
DF		26	5	86	114	1.507	5.56	3.92	57.0	243.1	6.36	223	952	713	250	107
DF		27	1	88	126	.279	1.11	.84	60.2	276.7	1.44	50	232	161	56	26
DF		28	1	80	100	.260	1.11	.52	80.1	265.0	1.19	42	138	133	47	15
DF		29	1	84	118	.242	1.11	.73	63.6	276.7	1.32	46	201	147	52	23
DF		32	1	86	122	.199	1.11	.60	74.4	360.0	1.27	44	215	142	50	24
DF		34	1	83	124	.176	1.11	.53	89.1	393.3	1.34	47	208	150	53	23
DF		Totals	68	86	94	40.787	75.56	82.69	32.7	130.0	76.98	2,701	10,752	8,622	3,025	1,204
RA		11	1	65	36	1.684	1.11									
RA		14	2	85	78	2.079	2.22	3.12	20.0	66.7	1.71	62	208	192	70	23
RA		16	4	85	83	3.183	4.44	3.98	31.9	104.0	3.49	127	414	391	142	46
RA		17	1	83	47	.705	1.11	.70	32.8	50.0	.64	23	35	71	26	4
RA		18	2	83	76	1.258	2.22	1.89	32.6	113.3	1.69	62	214	190	69	24
RA		Totals	10	81	69	8.908	11.11	9.69	28.3	89.9	7.53	274	871	843	307	98
Totals			78	85	90	49.695	86.67	92.38	32.2	125.8	84.51	2975	11,623	9,465	3,332	1,302

TC TLOGSTVB

Log Stock Table - MBF

Project: DEMO

T02N R07W S31 TSALE **T02N R07W S31 TSAL**

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page	1
02N	07W	31	AREA_5	SALE	69.00			Date	11/13/2014
								Time	1:03:29PM

	S	So	Gr	Log	Gross	%	Net	%	Net Volume by Scaling Diameter in Inches											
Spp	T	rt	de	Len	MBF	Def	MBF	Spc	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
DF		CO	2	14	11	5.0	11	.9						5	6					
DF		CO	2	26	22	5.0	21	1.7							11	10				
DF		CO	2	34	11	5.0	10	.8						10						
DF		CO	2	36	44	5.0	42	3.4						13	13	16				
DF		CO	2	40	512	5.0	487	39.5						146	142	163	15	20		
DF		CO	3	18	6	5.0	6	.5					6							
DF		CO	3	20	14	5.0	13	1.1				3	3	8						
DF		CO	3	21	1	5.0	1	.1		1										
DF		CO	3	22	5	5.0	5	.4		1			4							
DF		CO	3	23	1	5.0	1	.1		1										
DF		CO	3	26	8	5.0	7	.6					7							
DF		CO	3	32	22	5.0	21	1.7			9	11								
DF		CO	3	36	16	5.0	15	1.2				15								
DF		CO	3	40	480	5.0	456	37.1			86	221	149							
DF		CO	4	12	3	5.0	3	.2		3										
DF		CO	4	13	5	5.0	5	.4		5										
DF		CO	4	14	1	5.0	1	.1		1										
DF		CO	4	15	6	5.0	6	.5		6										
DF		CO	4	16	6	5.0	6	.5		6										
DF		CO	4	17	7	5.0	6	.5		6										
DF		CO	4	18	5	5.0	4	.4		4										
DF		CO	4	19	3	5.0	3	.3		3										
DF		CO	4	20	2	5.0	2	.2		2										
DF		CO	4	21	1	5.0	1	.1		1										
DF		CO	4	22	2	5.0	1	.1		1										
DF		CO	4	23	5	5.0	5	.4		5										
DF		CO	4	24	4	5.0	4	.3				4								
DF		CO	4	25	3	5.0	3	.2		3										
DF		CO	4	26	8	5.0	8	.6		8										
DF		CO	4	27	8	5.0	8	.6		8										
DF		CO	4	28	5	5.0	5	.4		5										
DF		CO	4	29	4	5.0	4	.3		4										
DF		CO	4	30	6	5.0	6	.5		6										
DF		CO	4	31	5	5.0	5	.4		5										
DF		CO	4	32	5	5.0	5	.4		5										
DF		CO	4	33	16	5.0	15	1.2		15										
DF		CO	4	34	2	5.0	2	.2		2										
DF		CO	4	35	8	5.0	8	.7		8										
DF		CO	4	36	7	5.0	6	.5		6										
DF		CO	4	38	5	5.0	5	.4		5										
DF		CO	4	39	5	5.0	4	.4		4										
DF		CO	4	40	5	5.0	4	.4		4										
DF			Totals		1,296	5.0	1,231	97.5		135	96	254	169	181	172	190	15	20		
RA		H	4	40	20	10.0	18	100.0			6	12								
RA			Totals		20	10.0	18	1.4			6	12								
BM		H	2	12	5	10.0	5	34.9								5				
BM		H	2	18	7	10.0	6	44.9							6					
BM		H	4	19	1	10.0	1	5.6			1									
BM		H	4	35	2	10.0	2	14.6			2									

TC TLOGSTVB

Log Stock Table - MBF

Project: **DEMO**

T02N R07W S31 TSALE

T02N R07W S31 TSAL

Twp	**Rge**	**Sec**	**Tract**	**Type**	**Acres**	**Plots**	**Sample Trees**
02N	**07W**	**31**	**AREA_5**	**SALE**	**69.00**		

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Date **11/13/2014**
Time **1:03:29PM**

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+
BM				Totals	16	10.0	14	1.1			3				6	5				
Total All Species					1,332	5.1	1,263	100.0		135	105	265	169	181	178	195	15	20		

TC TSTNDSUM

Stand Table Summary

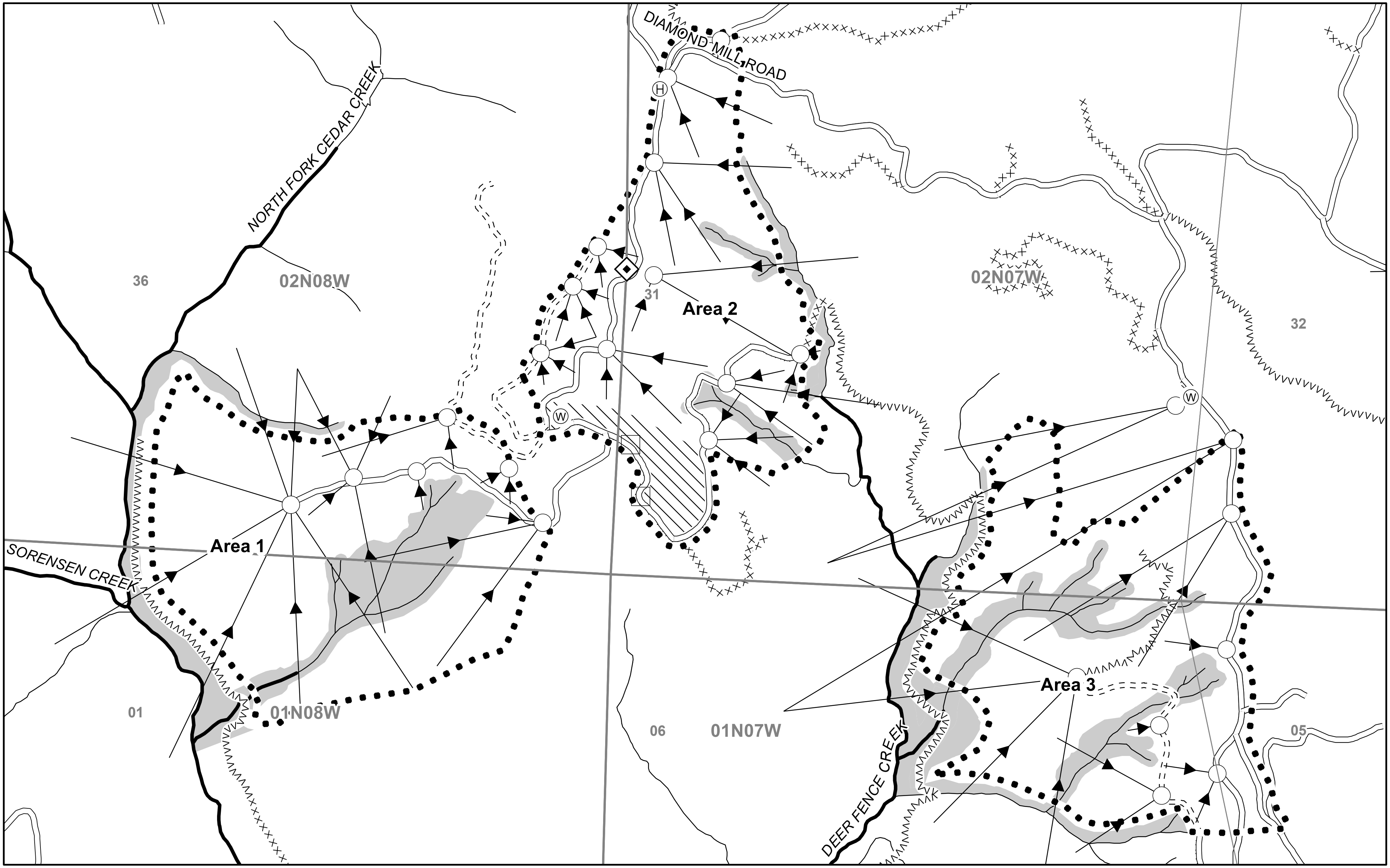
Project **DEMO**

T02N R07W S31 TSALE **T02N R07W S31 TSALE**

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
02N	07W	31	AREA_5	SALE	69.00		

Page: 1
Date: 11/13/2014
Time: 1:16:08PM

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
DF		10	2	81	109	6.495	3.33	12.99	7.9	35.0	2.94	103	455	203	71	31
DF		11	2	81	104	5.071	3.33	10.14	9.9	42.7	2.87	101	433	198	70	30
DF		12	3	80	102	6.404	5.00	12.81	12.8	48.3	4.67	164	618	322	113	43
DF		13	1	81	112	1.925	1.67	3.85	16.5	60.0	1.81	63	231	125	44	16
DF		14	2	79	94	3.053	3.33	6.11	17.1	57.6	2.98	104	351	205	72	24
DF		15	8	83	90	10.936	13.33	23.33	17.6	64.2	11.67	410	1,498	805	283	103
DF		16	9	82	89	10.789	15.00	21.58	21.6	72.6	13.31	467	1,567	918	322	108
DF		17	6	82	88	6.475	10.00	12.95	23.6	82.8	8.73	306	1,072	602	211	74
DF		18	6	82	96	5.682	10.00	13.21	25.3	91.6	9.52	334	1,209	657	230	83
DF		19	6	85	101	5.136	10.00	11.98	29.7	107.9	10.15	356	1,293	700	246	89
DF		20	5	87	104	3.907	8.33	10.15	30.8	120.7	8.93	313	1,226	616	216	85
DF		21	8	85	102	5.652	13.33	13.47	35.9	131.9	13.76	483	1,776	950	333	123
DF		22	8	84	100	5.053	13.33	12.59	38.4	144.0	13.78	483	1,813	951	334	125
DF		23	5	88	106	2.910	8.33	8.15	38.8	167.3	9.02	317	1,364	622	218	94
DF		24	5	85	101	2.663	8.33	6.90	44.7	176.4	8.79	309	1,218	607	213	84
DF		25	5	86	110	2.501	8.33	7.01	47.1	194.9	9.41	330	1,367	650	228	94
DF		26	1	85	109	.466	1.67	1.40	47.8	196.7	1.91	67	275	132	46	19
DF		29	1	85	124	.376	1.67	1.13	64.1	276.7	2.06	72	312	142	50	22
DF		32	1	86	109	.293	1.67	.88	75.7	320.0	1.90	67	281	131	46	19
DF		37	1	91	124	.228	1.67	.68	116.6	620.0	2.27	80	424	157	55	29
DF		Totals	85	83	98	86.017	141.67	191.31	25.8	98.2	140.49	4,929	18,785	9,694	3,401	1,296
RA		15	2	80	70	2.776	3.33	2.78	32.3	79.5	2.46	90	221	170	62	15
RA		23	1	82	54	.578	1.67	.58	66.5	120.0	1.06	38	69	73	27	5
RA		Totals	3	80	67	3.354	5.00	3.35	38.2	86.5	3.52	128	290	243	88	20
BM		22	2	77	52	1.286	3.33	2.57	26.0	87.5	1.78	67	225	122	46	16
BM		Totals	2	77	52	1.286	3.33	2.57	26.0	87.5	1.78	67	225	122	46	16
Totals			90	83	97	90.657	150.00	197.24	26.0	97.9	145.79	5125	19,300	10,059	3,536	1,332



⚒	Rock source
Ⓢ	Stock pile
Ⓦ	Waste area
	Bridge
	Gate
◈	Survey corner
Ⓓ	Domestic water supply intake
Ⓣ	Truck turn-around
Ⓗ	Helicopter landing zone
Ⓒ	Cultural site

▒	Buffer
☒	Non-required thinning
☐	Cable yarding
▨	Ground yarding
▨	Helicopter yarding
▒	Downhill yarding
	Green tree retention area

▧	Restricted area
◆◆◆	Area boundary
• • •	Sale boundary
▬ ▬	Ownership boundary
━	Fish stream
─	Non-fish stream
- - -	Unsurfaced road
═	Surfaced road
═	Paved road
VVVVVVV	Abandoned road

--A--	Swing road
─②─	Non-project road
×××××	Blocked road
//////	OHV trail
········	Non-motorized trail
Ⓣ─Ⓣ	Transmission line
+++++	Railroad
➤	Cable yarding
☐	Tractor Landing
○	Yarder Landing

LOGGING PLAN

Timber Sale Contract No. 341-15-83
BLING RIDGE
Portions of Sections 5, 6, 7, & 8, T1N R7W,
Section 1, T1N R8W,
Sections 31, 32, 33, T2N R7W, and
Section 36, T2N R8W, W.M.,
Tillamook County, Oregon

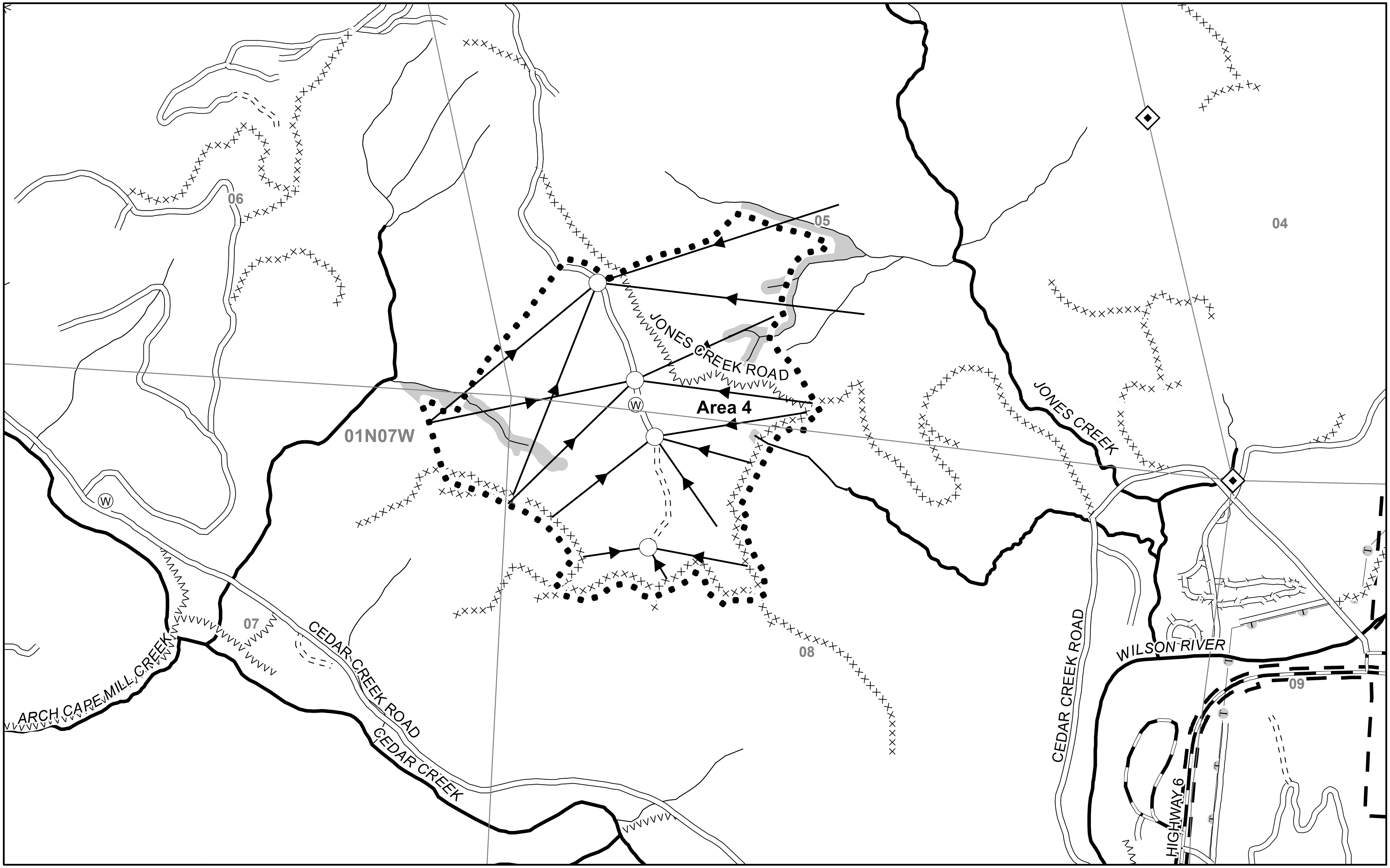
1,000 0 1,000 Feet

N

Area	Type of Operation	Acres Gross	Acres Net
1	Modified Clearcut	132	111
2	Modified Clearcut	113	93
3	Modified Clearcut	143	104
4	Modified Clearcut	126	112
5	Modified Clearcut	77	69
Total		591	489

Tillamook District GIS
11/04/2014

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



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Ⓢ Stock pile
Ⓦ Waste area
Bridge
Gate
◈ Survey corner
Ⓓ Domestic water supply intake
Ⓣ Truck turn-around
Ⓗ Helicopter landing zone
Ⓒ Cultural site

Buffer
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Ground yarding
Helicopter yarding
Downhill yarding
Green tree retention area

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Area boundary
Sale boundary
Ownership boundary
Fish stream
Non-fish stream
Unsurfaced road
Surfaced road
Paved road
VVVVVVV Abandoned road

--A-- Swing road
Non-project road
XXXXX Blocked road
OHV trail
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Tractor Landing
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LOGGING PLAN

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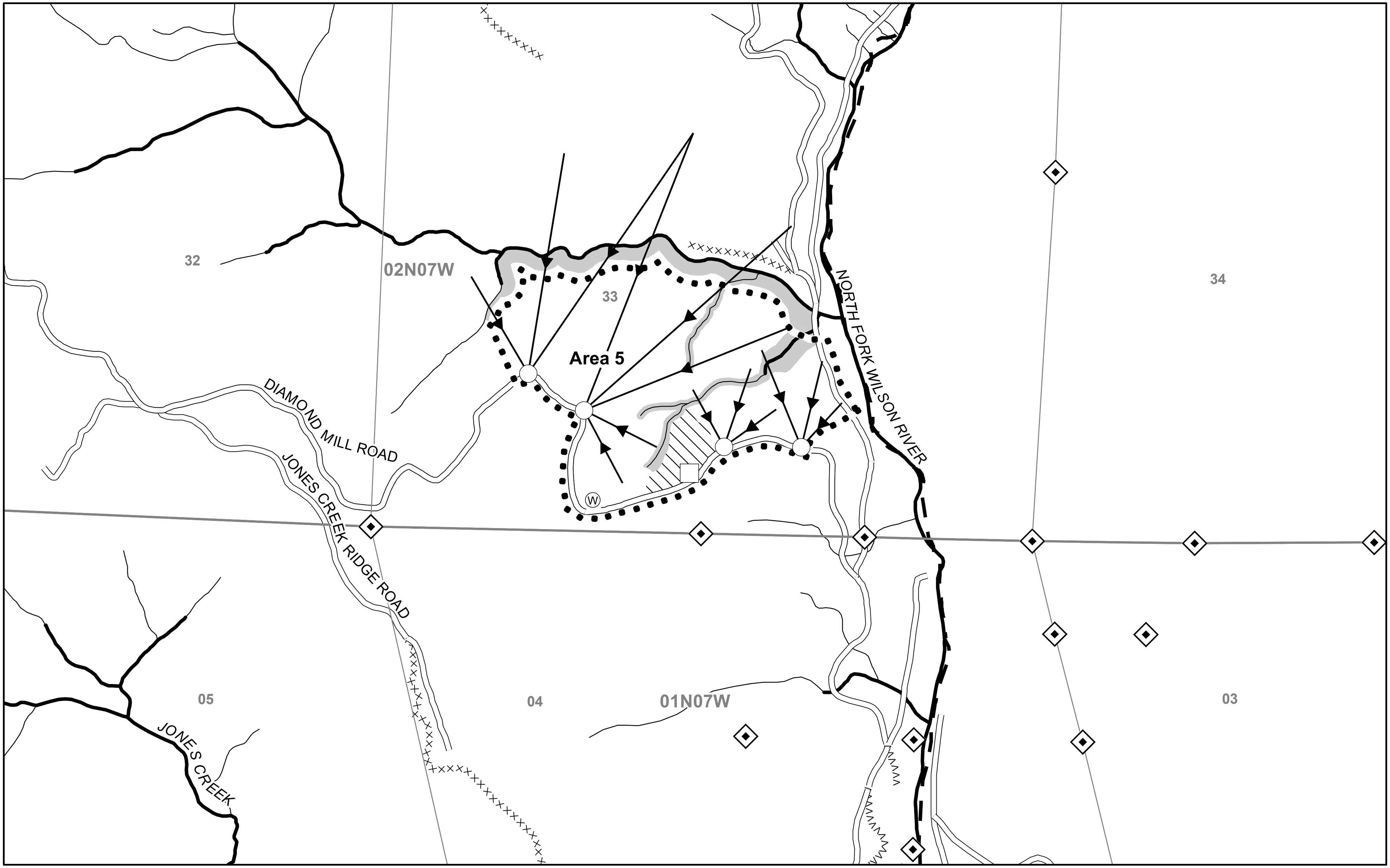

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