



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Beyer Sell
Sale 341-14-60

District: Tillamook

Date: October 07, 2013

cost summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$412,606.90	\$148,032.31	\$560,639.21
		Project Work:	\$(142,960.00)
		Advertised Value:	\$417,679.21



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timber description

Location: Portions of Sections 15, 21, 22, and 23, T2N, R8W, W.M., Tillamook County, Oregon.

Stand Stocking: 20%

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

Volume by Grade	10" - 11"	12"+	2S	3S	4S	8" - 9"	Total
Douglas - Fir	0	0	328	425	477	0	1,230
Western Hemlock / Fir	0	0	470	1,341	858	0	2,669
Alder (Red)	245	126	0	0	0	230	601
Total	245	126	798	1,766	1,335	230	4,500



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comments: Pond Values Used: 3rd Quarter Calendar Year 2013.

Western redcedar and Other Cedars Stumpage Price = Pond Value
minus Logging Cost:
\$650/MBF = \$1,000/MBF - \$350/MBF

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

SCALING COST ALLOWANCE = \$5.00/MBF

FUEL COST ALLOWANCE = \$4.00/Gallon

HAULING COST ALLOWANCE

Hauling costs equivalent to \$780 daily truck cost.

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

Brand and Paint: \$2/MBF x 4,501 MBF = \$9,002

Fell, Buck & Limb: \$40/MBF x 1,413 MBF = \$56,520

Intermediate Supports: \$100/support x 5 supports = \$500

Machine Cleaning: \$1,000/machine x 1 = \$1,000

Snag Creation: 202 snags x \$10/tree = \$2,020

TOTAL Other Costs (with Profit & Risk to be added) = \$69,042

Other Costs (No Profit & Risk added):

Non-Project Road #1 Construction: 9 stations X \$220/station =
\$1,980

Non-Project Road #2 Construction: 8 stations x \$80/station = \$640

Truck Assist on Non-Project Road #1: \$30/MBF x 340 MBF = \$10,200

Machine Time to Rehab Non-Project Road #1: 3 hours x \$75/hr =
\$225

Slash Piling and Sorting (Below 2,300' elevation): \$1.20/partial
cut acre x 88 acres = \$106

Slash Piling and Sorting (Below 2,300' elevation): \$5/modified
clearcut acre x 65 acres = \$325

Material for Pile Covering: \$5/pile x 15 slash piles = \$75

Road Blocking with Tank Traps: 2 X \$75/each = \$150

Machine Time for Vacating Low Water Crossing: \$75/hr x 2 hours
=\$150

TOTAL Other Costs (No Profit & Risk added) = \$13,851

ROAD MAINTENANCE

Spot Rocking: 20 cy/mile x \$5/cy x 4.501 MMBF x 14.9 mile / 4,501
MBF = \$1.49/MBF

Interim Maintenance Grading: \$250 x 14.9 miles/4,501 MBF =
\$.83/MBF

Final Maintenance Grading: \$500 x 14.9 miles/ 4,501 MBF =
\$1.66/MBF

Compaction: ((787 stations x \$18/station) + \$111 move in)/4,501=
\$3.17

Total Road Maintenance: \$7.15/MBF



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logging conditions

combination#: 1 Douglas - Fir 9.83%
 Western Hemlock / Fir 43.31%
 Alder (Red) 46.76%

yarding distance: Medium (800 ft) **downhill yarding:** No
logging system: Cable: Small Tower <=40 **Process:** Manual Delimbing
tree size: Small / Thinning 10in (90 Bft/tree), 18-20 logs/MBF
loads / day: 3.0 **bd. ft / load:** 3,500
cost / mbf: \$257.24

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

combination#: 2 Douglas - Fir 19.92%
 Western Hemlock / Fir 11.55%
 Alder (Red) 11.78%

yarding distance: Short (400 ft) **downhill yarding:** No
logging system: Shovel **Process:** Stroke Delimber
tree size: Small / Thinning 9in (70 Bft/tree), 20+ logs/MBF
loads / day: 6.0 **bd. ft / load:** 3,400
cost / mbf: \$70.50

machines: Stroke Delimber (B)

combination#: 3 Douglas - Fir 3.60%
 Western Hemlock / Fir 7.82%
 Alder (Red) 6.39%

yarding distance: Long (1,500 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: 2.0 **bd. ft / load:** 3,700
cost / mbf: \$383.01

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

combination#: 4 Douglas - Fir 66.65%
 Western Hemlock / Fir 37.32%
 Alder (Red) 35.07%

yarding distance: Medium (800 ft) **downhill yarding:** No
logging system: Cable: Small Tower <=40 **Process:** Stroke Delimber
tree size: Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF
loads / day: 6.0 **bd. ft / load:** 3,700
cost / mbf: \$127.67



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



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logging costs

Operating Seasons:	2.00	Profit Risk:	10.00%
Project Costs:	\$142,960.00	Other Costs (P/R):	\$69,042.00
Slash Disposal:	\$0.00	Other Costs:	\$13,851.00

Miles of Road

Road Maintenance: \$7.15

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

Hauling Costs

Species	\$ / MBF	Trips/Day	MBF / Load
Douglas - Fir	\$0.00	2.0	2.0
Western Hemlock / Fir	\$0.00	2.0	3.2
Alder (Red)	\$0.00	2.0	2.8



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logging costs breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
Douglas - Fir									
\$138.23	\$7.51	\$1.95	\$186.13	\$15.34	\$34.92	\$0.00	\$5.00	\$3.08	\$392.16
Western Hemlock / Fir									
\$197.16	\$7.51	\$1.95	\$116.34	\$15.34	\$33.83	\$0.00	\$5.00	\$3.08	\$380.21
Alder (Red)									
\$197.84	\$7.87	\$1.95	\$139.28	\$15.34	\$36.23	\$0.00	\$5.00	\$3.08	\$406.59

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$561.18	\$169.02	\$0.00
Western Hemlock / Fir	\$0.00	\$456.91	\$76.70	\$0.00
Alder (Red)	\$0.00	\$652.90	\$246.31	\$0.00



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summary

Amortized

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

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	1,230	\$169.02	\$207,894.60
Western Hemlock / Fir	2,669	\$76.70	\$204,712.30
Alder (Red)	601	\$246.31	\$148,032.31

Gross Timber Sale Value

Recovery: \$560,639.21

Prepared by: Nick Stumpf

Phone: 503-842-2545



PROJECT SUMMARY SHEET

Sale: Beyer Sell

CONSTRUCTION

Point	C to D	12+80	stations =	\$4,078.76
Point	E to F	3+40	stations =	\$2,214.88
SUBTOTAL CONSTRUCTION				<u>\$6,293.64</u>

IMPROVEMENT

Point	A to B	78+50	stations =	\$72,965.89
Point	G to H	48+45	stations =	\$14,633.42
Point	I to J	76+25	stations =	\$18,503.08
Point	K to L	61+00	stations =	\$5,040.30
SUBTOTAL IMPROVEMENT				<u>\$111,142.69</u>

SPECIAL PROJECTS

Crush & Stockpile 2300 c.y. of 2 1/2"-0" (Project 3)	\$21,873.00
SUBTOTAL SPECIAL PROJECTS	<u>\$21,873.00</u>

MOVE IN \$3,650.67

GRAND TOTAL \$142,960.00

Sale:		Beyer Sell		Road:		A to B		
Construction -	0+00 0.00	stations miles	Improvement -	78+50 1.49	stations miles	Reconstruction -	0+00 0.00	stations miles
IMPROVEMENT: CLEARING AND GRUBBING -								
Widening			0.060	acres @	\$660.00	per acre =	\$39.60	
Scattering			1.440	acres @	\$980.00	per acre =	\$1,411.20	
TOTAL CLEARING AND GRUBBING								\$1,450.80
IMPROVEMENT: EXCAVATION -								
Road Earthwork - Ditching - Bunch Material & Endhaul			75	sta. @	\$70.00	per c.y.=	\$5,250.00	
Widening			304	cy. @	\$3.20	per c.y.=	\$972.80	
TOTAL EXCAVATION								\$6,222.80
IMPROVEMENT: ENDHAUL -								
Widening	29+50	to	30+35	49	cy. @	\$1.74	per c.y.=	\$85.26
Widening	30+35	to	31+20	99	cy. @	\$1.74	per c.y.=	\$172.26
Widening	51+70	to	52+60	156	cy. @	\$2.32	per c.y.=	\$361.92
Spread & compact				304	cy. @	\$0.25	per c.y.=	\$76.00
TOTAL ENDHAUL								\$695.44
CULVERTS - MATERIALS & INSTALLATION								
<u>Culverts</u>								
	255	LF of 18"	\$4,462.50		290	LF of 24"	\$7,830.00	
					100	LF of 60"	\$12,000.00	
			<u>\$4,462.50</u>				<u>\$19,830.00</u>	
<u>Culvert Stakes & Markers</u>								
	18	markers	<u>\$144.00</u>					
			<u>\$144.00</u>					
TOTAL CULVERTS								\$24,436.50
ROCK								
0+00 to	78+50	2,740	cy. of	Crushed	@	\$12.47	per c.y.=	\$34,167.80
Culvert Backfill	22+40	30	cy. of	Crushed	@	\$9.51	per c.y.=	\$285.30
Culvert Backfill	8 Culverts	80	cy. of	Crushed	@	\$16.63	per c.y.=	\$1,330.40
Energy Dissipator	18 Culverts	180	cy. of	Riprap	@	\$3.48	per c.y.=	\$626.40
TOTAL ROCK								\$36,409.90
SPECIAL PROJECTS								
Construct waste areas -		2.00	hours @	\$130.00	per hour	\$260.00		
Grade and shape road -		78.50	stations @	\$15.50	per station	\$1,216.75		
Roll subgrade w/ vibratory roller prior to rocking -		78.50	stations @	\$13.20	per station	\$1,036.20		
Remove culverts from state lands		6.00	@	\$607.50	total	\$607.50		
Grass seed and fertilize -		1.50	acres @	\$220.00	per acre	\$330.00		
Mulching -		0.500	acres @	\$600.00	per acre	\$300.00		
TOTAL SPECIAL PROJECTS								\$3,750.45
GRAND TOTAL								\$72,965.89

SUMMARY OF CONSTRUCTION COST

Sale:

Beyer Sell

Road:

C to D

Construction -	12+80	stations	Improvement -	0+00	stations	Reconstruction -	0+00	stations
	0.24	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		12+80	30%		Outslope	\$191	=	\$2,444.80	
								TOTAL	\$2,444.80

ROCK

0+00	to	1+00	50	cy. of	Pit-Run	@	\$6.62 per c.y.=	\$331.00	
Rock for Log Crossing		2+40	20	cy. of	Pit-Run	@	\$6.65 per c.y.=	\$133.00	
Junction Rock		0+00	20	cy. of	Pit-Run	@	\$6.42 per c.y.=	\$128.40	
Rock for Ford Crossing		7+05	20	cy. of	Pit-Run	@	\$6.72 per c.y.=	\$134.40	
								TOTAL ROCK	\$726.80

SPECIAL PROJECTS

Construct Temporary Log Fill Crossing @ 2+40 -	1.00	@	\$200.00	each	\$200.00	
Construct Temporary Ford Crossing @ 7+05 -	1.00	@	\$150.00	each	\$150.00	
Grade and shape road -	12.80	stations @	\$15.50	per station	\$198.40	
Roll subgrade w/ vibratory roller prior to rocking -	12.80	stations @	\$13.20	per station	\$168.96	
Grass seed and fertilize -	0.59	acres @	\$220.00	per acre	\$129.80	
Mulching -	0.100	acres @	\$600.00	per acre	\$60.00	
TOTAL SPECIAL PROJECTS						\$907.16

GRAND TOTAL **\$4,078.76**

SUMMARY OF CONSTRUCTION COST

Sale:			<u>Beyer Sell</u>			Road:			<u>E to F</u>			
<u>Construction -</u>			<u>3+40</u> stations			<u>Improvement -</u>			<u>0+00</u> stations			
			0.06 miles						<u>Reconstruction -</u> <u>0+00</u> stations			
						0.00 miles			0.00 miles			
CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -												
<u>Station</u>		<u>to</u>	<u>Station</u>		<u>Avg. Sideslope</u>	<u>Avg. Dist.</u>	<u>To W.A. (mi.)</u>	<u>Outslope/Ditch</u>	<u>Cost per Station</u>			
0+00			2+70		15%			Outslope	\$107	=	\$288.90	
2+70			3+40		Landing Const..			Outslope	\$350	=	\$245.00	
											<u>TOTAL</u>	\$533.90
ROCK												
0+00		to	2+70		130	cy. of	Pit-Run	@	\$5.97	per c.y.=	\$776.10	
Landing Rock			3+05		110	cy. of	Pit-Run	@	\$5.97	per c.y.=	\$656.70	
Junction Rock			0+00		20	cy. of	Pit-Run	@	\$5.77	per c.y.=	\$115.40	
											<u>TOTAL ROCK</u>	\$1,548.20
SPECIAL PROJECTS												
Grade and shape road -							3.40	stations @	\$15.50	per station	\$52.70	
Roll subgrade w/ vibratory roller prior to rocking -							3.40	stations @	\$13.20	per station	\$44.88	
Grass seed and fertilize -							0.16	acres @	\$220.00	per acre	\$35.20	
											<u>TOTAL SPECIAL PROJECTS</u>	\$132.78
											GRAND TOTAL	\$2,214.88

SUMMARY OF CONSTRUCTION COST

Sale:

Beyer Sell

Road:

G to H

Construction -	0+00	stations	Improvement -	48+45	stations	Reconstruction -	0+00	stations
	0.00	miles		0.92	miles		0.00	miles

IMPROVEMENT: CLEARING AND GRUBBING -

Widening	0.016	acres	@	\$660.00	per acre =	\$10.56	
Scattering	0.890	acres	@	\$980.00	per acre =	\$872.20	
TOTAL CLEARING AND GRUBBING							\$882.76

IMPROVEMENT: EXCAVATION -

Road Earthwork- Ditching - Bunch Material & Scatter or End Haul	48.50	sta.	@	\$70.00	per sta. =	\$3,395.00	
Widening	68	cy.	@	\$1.40	per c.y. =	\$95.20	
TOTAL EXCAVATION							\$3,490.20

IMPROVEMENT: ENDHAUL -

Widening	22+65	to	23+80	68	cy.	@	\$1.54	per c.y. =	\$104.72	
Spread & compact				68	cy.	@	\$0.25	per c.y. =	\$17.00	
TOTAL ENDHAUL										\$121.72

CULVERTS - MATERIALS & INSTALLATION

<u>Culverts</u>	210	LF of 18"	\$3,675.00	30	LF of 24"	\$810.00
				40	LF of 36"	\$1,320.00
			<u>\$3,675.00</u>			<u>\$2,130.00</u>
<u>Culvert Stakes & Markers</u>	9	markers	<u>\$72.00</u>			
			\$72.00			
TOTAL CULVERTS						\$5,877.00

ROCK

Culvert Backfill	39+45, 46+15	20	cy. of	Crushed	@	\$16.68	per c.y. =	\$333.60	
Side Slope Stabilization	23+80	20	cy. of	Riprap	@	\$4.39	per c.y. =	\$87.80	
Energy Dissipator	9 Culverts	90	cy. of	Riprap	@	\$3.79	per c.y. =	\$341.10	
Leveling	As Directed	200	cy. of	Pit-Run	@	\$6.24	per c.y. =	\$1,248.00	
TOTAL ROCK									\$2,010.50

SPECIAL PROJECTS

Grade and shape/level road w/ cat or grader-	48.45	stations @	\$20.00	per station	\$969.00	
Roll subgrade w/ vibratory roller prior to rocking -	48.45	stations @	\$13.20	per station	\$639.54	
Remove culverts from state lands	2.00	@	\$442.50	total	\$442.50	
Grass seed and fertilize -	0.91	acres @	\$220.00	per acre	\$200.20	
TOTAL SPECIAL PROJECTS						\$2,251.24

GRAND TOTAL	\$14,633.42
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SUMMARY OF CONSTRUCTION COST

Sale: **Beyer Sell**

Road: **I to J**

Construction -	0+00	stations	Improvement -	76+25	stations	Reconstruction -	0+00	stations
	0.00	miles		1.44	miles		0.00	miles

IMPROVEMENT: CLEARING AND GRUBBING -

Widening	0.047	acres @	\$660.00	per acre =	\$31.02	
Scattering	1.400	acres @	\$980.00	per acre =	\$1,372.00	
TOTAL CLEARING AND GRUBBING						\$1,403.02

IMPROVEMENT: EXCAVATION -

Road Earthwork - Ditching - Bunch Material & End Haul	76.25	sta. @	\$70.00	per sta. =	\$5,337.50	
Road Earthwork - Ditchline Repair 45+30 to 50+10	4.80	sta. @	\$20.00	per sta. =	\$96.00	
Widening	394	cy. @	\$1.40	per c.y. =	\$551.60	
TOTAL EXCAVATION						\$5,985.10

IMPROVEMENT: ENDHAUL -

Widening	50+10	to	51+80	394	cy. @	\$2.74	per c.y. =	\$1,079.56	
Spread & compact				394	cy. @	\$0.25	per c.y. =	\$98.50	
TOTAL ENDHAUL									\$1,178.06

CULVERTS - MATERIALS & INSTALLATION

Culverts

150	LF of 18"	\$2,625.00	35	LF of 24"	\$945.00
			40	LF of 36"	\$1,320.00
		<u>\$2,625.00</u>			<u>\$2,265.00</u>

Culvert Stakes & Markers

7 markers	<u>\$56.00</u>
	\$56.00

TOTAL CULVERTS \$4,946.00

ROCK

Culvert Backfill	33+15, 62+75	20	cy. of	Crushed	@	\$16.76	per c.y. =	\$335.20	
Side Slope Stabilization	33+15	20	cy. of	Riprap	@	\$4.63	per c.y. =	\$92.60	
Energy Dissipator	7 Culverts	70	cy. of	Riprap	@	\$4.03	per c.y. =	\$282.10	
Leveling	As Directed	200	cy. of	Pit-Run	@	\$6.24	per c.y. =	\$1,248.00	
TOTAL ROCK									\$1,957.90

SPECIAL PROJECTS

Grade and shape/level road w/ cat or grader-	76.25	stations @	\$20.00	per station	\$1,525.00	
Roll subgrade w/ vibratory roller prior to rocking -	76.25	stations @	\$13.20	per station	\$1,006.50	
Remove culverts from state lands	2.00	@	\$442.50	total	\$442.50	
Grass seed and fertilize -	0.05	acres @	\$220.00	per acre	\$11.00	
Mulching -	0.080	acres @	\$600.00	per acre	\$48.00	
TOTAL SPECIAL PROJECTS						\$3,033.00

GRAND TOTAL \$18,503.08

SUMMARY OF CONSTRUCTION COST

Sale:

Beyer Sell

Road:

K to L

Construction -	0+00	stations	Improvement -	61+00	stations	Reconstruction -	0+00	stations
	0.00	miles		1.16	miles		0.00	miles

IMPROVEMENT: EXCAVATION -

Pullback Sidecast Place in Road	1+50	100	cy. @	\$2.70	per c.y.=	\$270.00
Pullback Sidecast Place in Road	8+85	50	cy. @	\$2.70	per c.y.=	\$135.00
Pullback Remaining Fill in Crossing	10+05	100	cy. @	\$2.70	per c.y.=	\$270.00
Pullback Sidecast Place in Road	11+10	50	cy. @	\$2.70	per c.y.=	\$135.00
Pullback Sidecast Place in Road	12+10	50	cy. @	\$2.70	per c.y.=	\$135.00
Pullback Remaining Fill & Logs in Crossing	39+00	300	cy. @	\$2.70	per c.y.=	\$810.00
Pullback Remaining Fill in Crossing	47+95	100	cy. @	\$2.70	per c.y.=	\$270.00
Pullback Remaining Fill in Crossing	55+90	75	cy. @	\$2.70	per c.y.=	\$202.50
Pullback Remaining Fill in Crossing	59+70	400	cy. @	\$2.70	per c.y.=	\$1,080.00
Pullback Remaining Fill in Crossing	60+20	30	cy. @	\$2.70	per c.y.=	\$81.00

TOTAL EXCAVATION \$3,388.50

SPECIAL PROJECTS

Construct waterbars approx. every 400 ft. -	1.00	lump sum @	\$320.00		\$320.00
Remove culverts from state lands	3.00	@	\$485.40	total	\$485.40
Grass seed and fertilize -	1.12	acres @	\$220.00	per acre	\$246.40
Mulch pullback sections that are stream crossings-	1.000	acres @	\$600.00	per acre	\$600.00
				TOTAL SPECIAL PROJECTS	\$1,651.80

GRAND TOTAL \$5,040.30

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Pit:	Pit_run	Location:	Hole-In-The-Wall Pit
Sale:	Beyer Sell		1/4 NE Sec. 23, T2N, R8W, W.M.
Swell:	1.40	Road:	1150 c.y.
Shrinkage	1.16	Stockpile:	c.y.
Drill Pct.:	0%	Total Truck Loads:	1150 c.y.
		In Place Total:	821 c.y.

Pit Development & Cleanup including Clearing and grubbing of Waste Area @ adjacent to pit, place overburden in Waste Area, spread and compact. \$500.00

Rip Rock:	\$1.90 /cu.yd.	x	821 cu.yds.	=	\$1,559.90
Push Rock:	\$0.60 /cu.yd.	x	1150 cu.yds.	=	\$690.00
Load Dump Truck:	\$0.70 /cu.yd.	x	1150 cu.yds.	=	\$805.00

Subtotal \$3,554.90

Move in Excavator	1	@	\$200.00	=	\$200.00
Move in Trucks	2	@	\$50.00	=	\$100.00

Subtotal \$300.00

Base Cost=	\$3.35	Per Cu.Yd.	TOTAL PRODUCTION COSTS	\$3,854.90
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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 Energy Dissipator (Riprap)	1.48	1.40	0.60	3.48	180	\$626.40
C to D 0 100 (Pit-Run)	2.17	1.10	3.35	6.62	50	\$331.00
C to D Rock for Log Crossing (Pit-Run)	2.20	1.10	3.35	6.65	20	\$133.00
C to D Junction Rock (Pit-Run)	2.17	0.90	3.35	6.42	20	\$128.40
C to D Rock for Ford Crossing (Pit-Run)	2.27	1.10	3.35	6.72	20	\$134.40
E to F 0 270 (Pit-Run)	1.52	1.10	3.35	5.97	130	\$776.10
E to F Landing Rock (Pit-Run)	1.52	1.10	3.35	5.97	110	\$656.70
E to F Junction Rock (Pit-Run)	1.52	0.90	3.35	5.77	20	\$115.40
G to H Side Slope Stabilization (Riprap)	1.79	2.00	0.60	4.39	20	\$87.80
G to H Energy Dissipator (Riprap)	1.79	1.40	0.60	3.79	90	\$341.10
G to H Leveling (Pit-Run)	1.79	1.10	3.35	6.24	200	\$1,248.00
I to J Side Slope Stabilization (Riprap)	2.03	2.00	0.60	4.63	20	\$92.60
I to J Energy Dissipator (Riprap)	2.03	1.40	0.60	4.03	70	\$282.10
I to J Leveling (Pit-Run)	1.79	1.10	3.35	6.24	200	\$1,248.00
				Total C.Y.	1150	Sub Total \$6,201.00

TOTAL ROCKING COSTS \$6,201.00

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Pit:	Stockpile	Location:	5.5 MP Cook Crk. Rd.
Sale:	Beyer Sell		SW 1/4 Sec. 5, T2N, R8W, W.M.
		Road:	150 c.y.

Load Dump Truck:	\$0.70	/cu.yd.	x	150	cu.yds.	=	\$105.00
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Subtotal	\$105.00
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Move in Loader	1	@	\$1,156.93	=	\$1,156.93
Move in Trucks	1	@	\$331.69	=	\$331.69

Subtotal	\$1,488.62
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Base Cost=	\$10.62	Per Cu.Yd.			TOTAL PRODUCTION COSTS	\$1,593.62
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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 Culvert Backfill (Crushed)	5.41	0.60	10.62	16.63	30	\$498.90
A to B Culvert Backfill (Crushed)	5.41	0.60	10.62	16.63	80	\$1,330.40
G to H Culvert Backfill (Crushed)	5.46	0.60	10.62	16.68	20	\$333.60
I to J Culvert Backfill (Crushed)	5.54	0.60	10.62	16.76	20	\$335.20
Total C.Y.					150	Sub Total
						\$2,498.10

TOTAL ROCKING COSTS	\$2,498.10
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ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Pit:	Crushed	Location:	Smith Wright Pit
Sale:	Beyer Sell		1/4 SE Sec. 21, T2N, R8W, W.M.
Swell:	1.40	Road:	2740 c.y.
Shrinkage	1.16	Stockpile:	2300 c.y.
Drill Pct.:	75%	Total Truck Loads:	5040 c.y.
		In Place Total:	3600 c.y.

Pit Development & Cleanup including Clearing and grubbing of Waste Area @ adjacent to pit, place overburden in Waste Area, spread and compact. \$2,000.00

Drill & Shoot:	\$2.50 /cu.yd.	x	2700 cu.yds.	=	\$6,750.00
Rip Rock:	\$1.90 /cu.yd.	x	900 cu.yds.	=	\$1,710.00
Push Rock:	\$0.60 /cu.yd.	x	5040 cu.yds.	=	\$3,024.00
Load Crusher:	\$0.60 /cu.yd.	x	5040 cu.yds.	=	\$3,024.00
Crush Rock:	\$2.50 /cu.yd.	x	5040 cu.yds.	=	\$12,600.00
Load Dump Truck:	\$0.70 /cu.yd.	x	5040 cu.yds.	=	\$3,528.00

Subtotal \$32,636.00

Move In/Set-up Crusher					\$1,000.00
Move In and set up Drill and Compressor	1	@	\$977.12	=	\$977.12
Move in Roller and Compactor	1	@	\$977.12	=	\$977.12
Move in Grader	1	@	\$265.23	=	\$265.23
Move in D-8	1	@	\$50.00	=	\$50.00
Move in Loader	1	@	\$85.00	=	\$85.00
Move in Excavator	1	@	\$200.00	=	\$200.00
Move in Trucks	2	@	\$50.00	=	\$100.00
Move in Water Truck	1	@	\$389.88	=	\$389.88
				Subtotal	\$4,044.35

Base Cost=	\$7.28	Per Cu.Yd.	TOTAL PRODUCTION COSTS	\$36,680.35
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Road Segment	Haul Cost \$/cu.yd.	Proc Cost \$/cu.yd.	Base Cost. \$/cu.yd.	Cost \$/cu.yd.	Number Cu. Yds	ROCK COST
A to B 0 7850 (Crushed)	2.74	2.45	7.28	12.47	2740	\$34,167.80
Stockpile (Project 3)	2.13	0.10	7.28	9.51	2300	\$21,873.00
				Total C.Y.	5040	Sub Total

TOTAL ROCKING COSTS \$56,040.80

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

Sale: **Beyer Sell**

LOWBOY HAUL (Round Trip)		
DIST. (mi)	ROADWAY	AVE SPEED (mph)
46.0	Pavement	30
26.0	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	Excavators (Large)	\$1,500.04	1	\$44.80	0.00	0.00	0	\$0.00	\$1,500.04
1	Tractor (D8)	\$1,401.95	2	\$15.10	0.00	0.00	0	\$0.00	\$1,401.95
1	Dump Truck (10 cy +)	\$407.33		\$2.85	0.00	0.00	0	\$0.00	\$407.33
1	Water Truck (1500 Gal)	\$341.35		\$2.85	0.00	0.00	0	\$0.00	\$341.35
					TOTAL MOVE-IN COSTS:			\$3,650.67	



OREGON DEPARTMENT OF FORESTRY CRUISE REPORT

Beyer Sell

1. Type of Sale

Partial cut and Modified Clear cut, Recovery.

2. Legal Description

Sections 15, 21, 22, and 23, T2N, R8W, W.M., Tillamook County, Oregon.

3. Sale Acreage

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

	ACRES	
	<u>Gross</u>	<u>Net</u>
Area 1 (Partial Cut)	106	80
Area 2 (Clearcut)	135	101
Area 3 (Partial Cut)	131	98

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

A total of 54 full cruise plots were sampled at a spacing of 700' x 350'. 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 recorded on all plots. Species were recorded on all trees and measured for merchantable bole height, diameter, defect, and form factor. Merchantable heights were recorded to 6" and 7" outside bark for conifers and hardwoods respectively.

B. Plot size

A basal area factor of 40 was used in Area 1. A basal area factor of 33.61 was used for Areas 2 and 3. Point of observation was 4.5 feet.

C. Grading System

All species were graded using Columbia River Log Scaling and Grading Bureau rules favoring a 40' log.

5. Computation Procedure

The volume and statistics for the timber cruised were computed using SuperACE 2008, 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.

Cruise Statistics (Net/BF Volume Per Acre)			
Area	Number of Plots	SE (%)	CV (%)
1	17	10.5	42.0
2	19	9.4	40.0
3	18	9.2	37.9
Total	54	9.7	39.9

6. Hidden Defect and Breakage

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

7. Timber Description

This entire stand was burned during the 1933 Tillamook Fire and the 1945 Wilson River/Salmonberry fire.

Area 1 is a natural stand of predominantly hemlock, Douglas-fir and alder, with a minor component of cedar and Noble fir. The crowns are beginning to close in and recede.

Portions of Area 2 were planted in 1967-1968. Area 2 is in General stewardship and has not had previous management. It is a dense stand of hemlock, Douglas-fir, and alder with a minor component of cedar and Noble fir. The live crown ratios are low and the stand is not growing well.

Portions of Area 3 were pre-commercially thinned in 1969. This stand is predominantly hemlock, and alder with a minor component of cedar, Douglas-fir and Noble fir. Crowns are beginning to close in and recede.

Sale Area – Species (% by volume)	DBH	Merchantable Bole Height	Merchantable Top
Area 1 - Douglas-fir (14%)	14.1	55	5"
Area 1 - Alder (40%)	14.2	33	6"
Area 1 – Hemlock (46%)	13.7	63	5"
Area 2 – Douglas-fir (28%)	12.4	48	5"
Area 2 -- Alder (17%)	14.3	43	6"
Area 2 – Hemlock (55%)	14.1	59	5"
Area 3 - Douglas-fir (1%)	16.5	81	5"
Area 3 - Alder (17%)	13.4	37	6"

Area 3 – Hemlock (82%)	12.4	56	5"
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8. Cruiser Names/Dates

Contract cruised/2012.

Area 1 - Portions cruised by ODF personnel/2013.

9. Revenue Distribution

FDF 100%

Tax Code: 56 (270 acres or 90%), 56-1 (29 acres or 10%).

Deed Numbers: 35

10. Attachments

Volume Summary

Stand Tables

Log Stock Tables

Logging Plan

11. Stand and Log Stock Tables Species Key

DL – Douglas-fir leave

DF – Douglas-fir take

NL – Noble fir leave

NF – Noble fir take

RL – Red alder leave

RA – Red alder take

RC – Western red cedar

CL – Western red cedar leave

WL – Western hemlock leave

WH – Western hemlock take

OC—cruised snag in decay class I or II.

TC TLOGSTVB				Log Stock Table - MBF																
				Project: BYER																
T2N R8W S22 T0100										T2N R8W S22 T0100										
Twp		Rge		Sec		Tract		Type		Acres		Plots		Sample Trees		Page		1		
2N		8W		22		AREA 1		0100		80.00		17		91		Date		8/29/2013		
																Time		10:31:38AM		
Spp	T	S	So	Gr	Log	Gross	%	Net	%	Net Volume by Scaling Diameter in Inches										
										MBF	Def	MBF	Spc	2-3	4-5	6-7	8-9	10-11	12-13	14-15
WL		DO	2M	40		195		195	36.1					78		92	25			
WL		DO	3M	40		268	2.0	263	48.5			25	19	112	83	24				
WL		DO	4M	17		5		5	.9		5									
WL		DO	4M	19		2		2	.4			2								
WL		DO	4M	20		2		2	.5			2								
WL		DO	4M	22		5		5	.9			5								
WL		DO	4M	24		11		11	1.9			11								
WL		DO	4M	25		4		4	.7		4									
WL		DO	4M	26		3		3	.5			3								
WL		DO	4M	29		2		2	.4		2									
WL		DO	4M	30		5		5	.9		2	3								
WL		DO	4M	31		3		3	.5		3									
WL		DO	4M	32		25	4.3	24	4.4		3	4	17							
WL		DO	4M	33		9		9	1.7		3	6								
WL		DO	4M	36		3		3	.5		3									
WL		DO	4M	38		4		4	.8		4									
WL		DO	4M	40		3		3	.5		3									
WL		Totals				548	1.2	542	32.0		31	60	35	112	160	117	25			
WH		DO	2M	40		20		20	6.0					20						
WH		DO	3M	20		13		13	3.7					13						
WH		DO	3M	32		18		18	5.3			18								
WH		DO	3M	40		186		186	54.8			11	109	66						
WH		DO	4M	18		6		6	1.7		6									
WH		DO	4M	19		3		3	.8			3								
WH		DO	4M	20		15		15	4.4			3	11							
WH		DO	4M	21		6		6	1.7		6									
WH		DO	4M	23		6		6	1.8			6								
WH		DO	4M	25		5		5	1.6			5								
WH		DO	4M	28		4		4	1.2		4									
WH		DO	4M	29		5		5	1.5			5								
WH		DO	4M	31		4		4	1.1		4									
WH		DO	4M	32		21		21	6.2		4	17								
WH		DO	4M	40		28		28	8.3		14	14								
WH		Totals				339		339	20.0		37	65	138	86	13					
RA		DO	2M	32		44		44	22.1					44						
RA		DO	3M	32		25		25	12.4			12		13						
RA		DO	3M	36		7		7	3.6			7								
RA		DO	3M	40		8		8	4.0			8								
RA		DO	4M	14		2		2	1.1			2								
RA		DO	4M	17		13		13	6.3			13								
RA		DO	4M	19		2		2	.9			2								
RA		DO	4M	21		10		10	5.0				10							
RA		DO	4M	23		11		11	5.7			11								
RA		DO	4M	25		11		11	5.5				11							
RA		DO	4M	28		10		10	5.1			10								
RA		DO	4M	32		15		15	7.2				15							
RA		DO	4M	34		10		10	4.9				10							
RA		DO	4M	36		11		11	5.4				11							

TC TLOGSTVB				Log Stock Table - MBF																	
				Project: BYER																	
T2N R8W S22 T0100										T2N R8W S22 T0100											
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees		Page	2											
2N	8W	22	AREA 1	0100	80.00	17	91		Date	8/29/2013											
										Time	10:31:38AM										
Spp	T	S	So Gr	Log	Len	Gross MBF	% Def	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches											
										2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
RA		DO	4M	40		22		22	10.9					22							
RA					Totals	200		200	11.8			65	56	35	44						
DL		DO	CL	10																	
DL		DO	2M	40		119		119	41.9					59		60					
DL		DO	3M	32		50		50	17.4				13	18	18						
DL		DO	3M	40		69	1.8	68	23.8			4		21	19		24				
DL		DO	4M	16		4		4	1.3		4										
DL		DO	4M	23		2		2	.8		2										
DL		DO	4M	27		4		4	1.4		4										
DL		DO	4M	29		3		3	1.2		3										
DL		DO	4M	30		3		3	1.0		3										
DL		DO	4M	32		1		1	.4		1										
DL		DO	4M	33		4		4	1.3		4										
DL		DO	4M	34		3		3	1.2		3										
DL		DO	4M	36		6		6	2.2		6										
DL		DO	4M	40		17		17	6.0		2	15									
DL					Totals	286		285	16.8		33	20	13	39	97		84				
DF		DO	3M	32		14		14	15.2					14							
DF		DO	3M	40		35		35	36.6				14	20							
DF		DO	4M	17		4		4	4.3		4										
DF		DO	4M	23		2		2	2.5		2										
DF		DO	4M	24		4		4	3.8		4										
DF		DO	4M	29		4		4	4.3		4										
DF		DO	4M	32		14		14	15.1				14								
DF		DO	4M	40		17		17	18.1			17									
DF					Totals	94		94	5.6		14	17	29	35							
RL		DO	4M	20		11		11	13.1					11							
RL		DO	4M	21		5		5	6.5				5								
RL		DO	4M	34		13		13	15.3				13								
RL		DO	4M	40		53		53	65.1				53								
RL					Totals	81		81	4.8			71		11							
NL		DO	2M	40		42		42	38.1					17		25					
NL		DO	3M	22		7		7	6.4		1			6							
NL		DO	3M	38		5		5	4.2				5								
NL		DO	3M	40		54		54	49.0					17	7					30	
NL		DO	4M	27		3		3	2.3			3									
NL					Totals	111		111	6.6		1	3	5	6	34	7	25				30
CL		DO	4M	28		7		7	17.7		7										
CL		DO	4M	31		7		7	16.8			7									
CL		DO	4M	32		14		14	34.5			14									
CL		DO	4M	34		13		13	31.0			13									
CL					Totals	41		41	2.4		7	33									
Total All Species						1,701		1,693	100.0		124	263	347	323	348	123	134			30	

TC		Stand Table Summary														
TSTNDSUM		Project BYER														
T2N R8W S22 T0100										T2N R8W S22 T0100						
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page:	1							
2N	8W	22	AREA 1	0100	80.00	17	91	Date:	08/29/2015	Time:	10:21:31AM					
Spc	S T	Sample		Av	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net	Net	Totals			
		DBH	Trees	FF 16'				Ht Tot	Net Cu.Ft.		Net Bd.Ft.	Cu.Ft. Acre	Bd.Ft. Acre	Tons	Cunits	MBF
WL		12	2	87	53	6.258	4.71	9.25	10.8	39.7	3.21	100	367	257	80	29
WL		13	1	82	96	2.761	2.35	2.76	23.8	70.0	2.10	66	193	168	53	15
WL		15	2	92	78	3.913	4.71	5.88	23.5	99.9	4.43	138	588	354	111	47
WL		16	1	86	85	1.685	2.35	3.37	23.7	90.0	2.55	80	303	204	64	24
WL		17	2	89	88	2.970	4.71	5.94	26.4	104.4	5.02	157	620	402	126	50
WL		18	4	88	89	5.388	9.41	9.47	31.7	108.4	9.61	300	1,027	769	240	82
WL		19	1	84	90	1.195	2.35	2.39	34.9	115.0	2.67	83	275	214	67	22
WL		20	5	89	88	5.396	11.76	10.79	38.0	140.5	13.11	410	1,516	1,049	328	121
WL		22	3	89	88	2.716	7.06	5.43	45.0	166.6	7.83	245	905	626	196	72
WL		23	1	86	90	.816	2.35	1.63	53.4	200.0	2.79	87	326	223	70	26
WL		24	1	86	82	.749	2.35	1.50	53.9	195.0	2.58	81	292	207	65	23
WL		25	1	91	95	.690	2.35	1.38	64.9	260.0	2.87	90	359	229	72	29
WL		Totals	24	88	81	34.536	56.47	59.80	30.7	113.3	58.77	1,837	6,773	4,701	1,469	542
WH		10	1	86	67	4.314	2.35	4.31	13.6	40.0	1.88	59	173	151	47	14
WH		11	2	87	71	7.131	4.71	14.26	7.7	35.0	3.50	109	499	280	87	40
WH		13	3	88	77	7.741	7.06	10.26	17.8	70.3	5.83	182	721	467	146	58
WH		14	4	88	85	8.682	9.41	13.09	21.2	83.1	8.86	277	1,087	709	222	87
WH		15	1	87	60	1.917	2.35	1.92	26.7	70.0	1.64	51	134	131	41	11
WH		16	3	89	87	5.056	7.06	10.11	23.0	93.3	7.44	233	944	595	186	75
WH		17	2	87	79	3.058	4.71	6.12	22.3	87.1	4.36	136	533	349	109	43
WH		19	1	80	63	1.195	2.35	1.20	48.2	120.0	1.84	58	143	148	46	11
WH		Totals	17	87	77	39.094	40.00	61.26	18.0	69.1	35.36	1,105	4,234	2,829	884	339
DL		13	1	85	68	2.749	2.53	2.75	21.1	70.0	1.59	58	192	127	46	15
DL		14	1	86	66	2.370	2.53	4.74	12.1	45.0	1.58	57	213	126	46	17
DL		17	1	85	76	1.608	2.53	3.22	21.8	85.0	1.93	70	273	154	56	22
DL		18	2	88	78	2.868	5.07	5.74	26.3	97.5	4.14	151	559	331	120	45
DL		19	1	87	95	1.287	2.53	2.57	33.8	120.0	2.39	87	309	192	70	25
DL		20	2	86	88	2.347	5.07	4.69	34.8	117.5	4.49	163	551	359	131	44
DL		21	1	84	91	1.053	2.53	2.11	42.3	140.0	2.45	89	295	196	71	24
DL		24	1	86	101	.787	2.53	1.57	62.0	225.0	2.68	98	354	215	78	28
DL		26	1	87	88	.687	2.53	1.37	61.8	220.0	2.34	85	302	187	68	24
DL		30	2	84	93	1.032	5.07	2.06	71.4	247.5	4.06	147	511	324	118	41
DL		Totals	13	86	80	16.788	32.94	30.83	32.6	115.5	27.65	1,006	3,561	2,212	804	285
RA		11	2	80	37	7.405	4.71	7.40	8.7	34.8	1.77	65	258	142	52	21
RA		12	2	82	48	6.147	4.71	6.15	13.1	44.9	2.21	80	276	177	64	22
RA		13	3	76	59	7.906	7.06	7.91	19.0	56.6	4.14	150	447	331	120	36
RA		15	1	87	83	1.819	2.35	1.82	35.5	150.0	1.77	64	273	142	52	22
RA		16	3	82	55	5.121	7.06	5.12	30.0	70.0	4.22	153	358	338	123	29
RA		17	1	80	47	1.493	2.35	1.49	31.9	60.0	1.31	48	90	105	38	7
RA		18	1	80	61	1.331	2.35	2.66	22.7	70.0	1.66	60	186	133	48	15
RA		19	1	88	62	1.195	2.35	2.39	24.6	90.0	1.62	59	215	129	47	17
RA		20	1	88	63	1.079	2.35	2.16	28.4	105.0	1.69	61	226	135	49	18
RA		21	1	81	61	.978	2.35	1.96	29.7	90.0	1.60	58	176	128	46	14
RA		Totals	16	81	53	34.474	37.65	39.06	20.5	64.2	21.99	800	2,506	1,759	640	200
NL		20	1	88	86	1.079	2.35	2.16	34.2	115.0	1.77	74	248	142	59	20
NL		22	1	82	105	.891	2.35	2.67	31.6	113.3	2.03	85	303	162	68	24
NL		29	1	91	100	.524	2.35	1.05	82.4	355.0	2.07	86	372	166	69	30
NL		43	1	91	106	.232	2.35	.46	202.1	1000.0	2.25	94	464	180	75	37

TC		TSTNDSUM														Stand Table Summary									
Project										BYER															
T2N R8W S22 T0100															T2N R8W S22 T0100										
Twp		Rge		Sec		Tract		Type		Acres		Plots		Sample Trees		Page: 2									
2N		8W		22		AREA 1		0100		80.00		17		91		Date: 08/29/2015									
																Time: 10:21:31AM									
S Spc	T	Sample		FF	Ht	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net	Net	T o t a l s											
		DBH	Trees	16'	Tot				Cu.Ft.	Bd.Ft.		Cu.Ft.	Bd.Ft.	Tons	Cunits	MBF									
NL		Totals		4	87	97	2.726	9.41	6.34	53.4	218.7	8.12	338	1,387	650	271	111								
DF		11	1	86	71	3.565	2.35	3.57	14.8	60.0	1.51	53	214	121	42	17									
DF		13	1	80	73	2.553	2.35	5.11	12.2	45.0	1.78	62	230	142	50	18									
DF		16	1	86	91	1.685	2.35	3.37	22.7	90.0	2.18	76	303	174	61	24									
DF		17	2	82	78	2.985	4.71	5.97	21.6	72.5	3.67	129	433	293	103	35									
DF		Totals		5	83	77	10.789	11.76	18.01	17.8	65.5	9.13	320	1,180	731	256	94								
RL		13	1	79	88	2.633	2.35	2.63	25.4	90.0	1.64	67	237	131	54	19									
RL		14	2	92	66	4.342	4.71	4.34	24.4	94.3	2.59	106	409	207	85	33									
RL		15	1	80	79	1.917	2.35	1.92	34.9	90.0	1.64	67	173	131	54	14									
RL		16	1	79	71	1.664	2.35	3.33	16.5	60.0	1.34	55	200	108	44	16									
RL		Totals		5	85	75	10.557	11.76	12.22	24.1	83.4	7.21	294	1,019	577	236	81								
CL		11	1	70	66	3.501	2.35	3.50	15.7	50.0	1.29	55	175	103	44	14									
CL		12	2	79	52	6.147	4.71	6.15	14.8	40.3	2.14	91	247	172	73	20									
CL		14	1	79	45	2.139	2.35	2.14	19.6	40.0	.99	42	86	79	34	7									
CL		Totals		4	76	55	11.788	9.41	11.79	16.0	43.1	4.42	188	508	354	151	41								
OC		16	1	83	17	1.685	2.35																		
OC		26	1	80	84	.638	2.35																		
OC		Totals		2	82	35	2.323	4.71																	
Totals		90		85	71	163.076	214.12	239.31	24.6	88.5	172.66	5888	21,168	13,813	4,711	1,693									

TC TLOGSTVB				Log Stock Table - MBF																			
				Project:				BYER															
T2N R8W S22 T0100												T2N R8W S22 T0100											
Twp		Rge		Sec		Tract		Type		Acres		Plots		Sample Trees				Page		3			
2N		8W		22		AREA 2		0100		101.00		19		149				Date		8/29/2013			
																Time		10:34:18AM					
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+	
CL			Totals			33		33		1.1	23		10										
NL		C	2M	40	50		50		72.3					24		26							
NL		C	3M	40	17		17		24.3			8		9									
NL		C	4M	15	1		1		1.9	1													
NL		C	4M	22	1		1		1.4	1													
NL			Totals			69		69		2.3	2		8		9		24		26				
Total All Species						3,053		3,053		100.0	619		500		524	464		381	324		218	23	

TC		PSTNDSUM		Stand Table Summary										Page Date:		1 8/29/2013	
T2N R8W S22 Ty0100101.00					Project		BYER		Time:		10:32:20AM						
					Acres		101.00		Grown Year:								
S SpC	T	Tot							Average Log		Net		Net		Totals		
		DBH	Sample Trees	FF 16'	Av Ht	Trees/ Acre	BA/ Acre	Logs Acre	Net Cu.Ft.	Net Bd.Ft.	Tons/ Acre	Cu.Ft. Acre	Bd.Ft. Acre	Tons	Cunits	MBF	
WH		8	1	77	110	5.068	1.77	10.14	5.5	30.0	1.79	56	304	181	57	31	
WH		9	1	75	72	4.489	1.77	4.49	10.1	40.0	1.45	45	180	147	46	18	
WH		10	5	79	74	17.057	8.84	23.83	8.5	32.6	6.48	203	778	655	205	79	
WH		11	2	78	78	5.775	3.54	8.72	10.2	33.3	2.84	89	290	287	90	29	
WH		12	6	79	71	13.649	10.61	22.59	12.0	40.9	8.66	271	923	875	273	93	
WH		13	5	81	86	9.819	8.84	19.64	13.9	49.2	8.71	272	965	879	275	98	
WH		14	4	83	95	6.890	7.08	13.78	17.4	63.5	7.67	240	875	774	242	88	
WH		15	6	84	89	8.791	10.61	17.58	20.2	73.7	11.37	355	1,296	1,149	359	131	
WH		16	8	85	90	10.242	14.15	20.48	23.1	86.0	15.11	472	1,762	1,526	477	178	
WH		17	5	85	94	5.669	8.84	12.51	25.3	95.3	10.12	316	1,193	1,022	319	120	
WH		18	5	86	91	5.166	8.84	10.33	30.7	111.0	10.17	318	1,147	1,027	321	116	
WH		19	4	85	90	3.615	7.08	7.22	35.0	137.4	8.08	253	992	816	255	100	
WH		20	7	85	101	5.654	12.38	14.53	32.2	124.0	14.96	467	1,801	1,511	472	182	
WH		21	1	86	103	.735	1.77	2.21	30.3	116.7	2.14	67	257	216	68	26	
WH		22	1	89	102	.652	1.77	1.30	53.6	215.0	2.24	70	280	226	71	28	
WH		23	2	87	87	1.232	3.54	2.46	51.5	177.3	4.06	127	437	410	128	44	
WH		24	1	77	69	.577	1.77	1.15	44.8	120.0	1.66	52	139	167	52	14	
WH		26	1	82	85	.487	1.77	.97	63.6	225.0	1.98	62	219	200	63	22	
WH		Totals	65	82	85	105.566	114.98	193.94	19.3	71.4	119.48	3,734	13,839	12,068	3,771	1,398	
DF		7	4	76	40	27.274	7.08	27.27	2.5	10.0	1.91	67	273	193	68	28	
DF		9	4	78	75	15.519	7.08	15.52	10.9	37.6	4.84	170	584	489	172	59	
DF		10	5	78	87	16.113	8.84	25.61	8.2	31.2	5.97	209	799	603	211	81	
DF		11	4	80	85	10.753	7.08	18.56	9.9	40.0	5.26	184	743	531	186	75	
DF		12	5	82	84	10.936	8.84	19.73	12.6	44.4	7.09	249	876	716	251	89	
DF		13	10	80	80	19.353	17.69	34.81	13.4	45.5	13.30	467	1,583	1,343	471	160	
DF		14	3	82	80	4.850	5.31	9.70	15.6	51.8	4.31	151	502	435	153	51	
DF		15	2	84	99	3.023	3.54	6.05	19.6	77.6	3.38	118	469	341	120	47	
DF		16	1	83	81	1.350	1.77	2.70	18.5	65.0	1.42	50	175	144	50	18	
DF		17	1	86	99	1.149	1.77	2.30	25.6	95.0	1.67	59	218	169	59	22	
DF		19	5	85	104	4.589	8.84	11.95	27.7	105.4	9.42	331	1,260	951	334	127	
DF		21	2	87	119	1.493	3.54	4.48	32.6	139.1	4.17	146	623	421	148	63	
DF		22	2	84	118	1.372	3.54	4.12	34.8	134.8	4.08	143	555	412	145	56	
DF		23	2	87	114	1.216	3.54	3.65	39.1	168.5	4.07	143	615	411	144	62	
DF		24	3	84	119	1.690	5.31	5.07	43.2	180.9	6.24	219	917	630	221	93	
DF		26	4	82	98	1.957	7.08	5.38	44.7	175.4	6.85	240	944	692	243	95	
DF		27	1	82	109	.445	1.77	.89	75.7	290.0	1.92	67	258	194	68	26	
DF		Totals	58	80	76	123.083	102.60	197.78	15.2	57.6	85.87	3,013	11,394	8,673	3,043	1,151	
RA		10	2	78	50	6.487	3.54	6.49	9.8	40.0	1.75	64	259	177	64	26	
RA		11	2	78	93	4.991	3.54	7.49	14.9	56.7	3.07	112	424	310	113	43	
RA		12	1	75	66	2.452	1.77	2.45	16.8	60.0	1.14	41	147	115	42	15	
RA		14	1	81	81	1.564	1.77	3.13	16.0	55.0	1.38	50	172	139	51	17	
RA		15	4	79	83	5.815	7.08	10.09	20.5	69.8	5.68	206	704	573	209	71	
RA		16	2	77	67	2.473	3.54	4.88	17.1	59.8	2.30	84	292	233	85	29	
RA		17	2	78	70	2.245	3.54	3.37	27.1	83.3	2.51	91	281	254	92	28	
RA		18	2	81	61	2.026	3.54	3.01	29.5	89.3	2.44	89	268	247	90	27	
RA		20	1	81	67	.795	1.77	1.59	30.3	95.0	1.32	48	151	134	49	15	
RA		21	2	82	75	1.492	3.54	3.72	26.5	106.3	2.71	99	396	274	100	40	
RA		Totals	19	78	71	30.340	33.61	46.21	19.1	67.0	24.31	884	3,094	2,455	893	313	
DL		27	2	83	111	.883	3.54	2.65	53.9	223.7	3.92	143	593	396	144	60	
DL		40	1	83	111	.203	1.77	.61	112.5	500.0	1.88	68	304	190	69	31	

TC		PSTNDSUM										Stand Table Summary										Page		2																																					
																						Date:		8/29/2013																																					
		T2N R8W S22 Ty0100				101.00				Project				BYER				Time:				10:32:20AM																																							
										Acres				101.00				Grown Year:																																											
S		Tot								Average Log				Net				Net				Totals																																							
Sp		DBH		Sample		FF		Av		Trees/		BA/		Logs		Net		Tons/		Cu.Ft.		Bd.Ft.		Tons		Cunits		MBF																																	
T				Trees		16'		Ht		Acre		Acre		Acre		Cu.Ft.		Acre		Acre		Acre																																							
		Totals				3				83				111				1.086				5.31				3.26				64.8				275.2				5.81				211				897				586				213				91			
DL		22				1				86				117				.652				1.77				1.96				38.4				166.7				1.80				75				326				182				76				33			
NL		26				1				91				120				.487				1.77				1.46				51.8				243.3				1.82				76				356				184				77				36			
NL		Totals				2				88				118				1.139				3.54				3.42				44.1				199.5				3.62				151				682				366				152				69			
CL		9				1				77				72				4.004				1.77				4.00				10.1				40.0				.95				41				160				96				41				16			
CL		10				1				80				87				3.243				1.77				6.49				6.5				25.0				.99				42				162				100				42				16			
CL		Totals				2				78				79				7.247				3.54				10.49				7.9				30.7				1.94				83				322				196				83				33			
Totals		149				80				79				268.462				263.57				455.10				17.7				66.4				241.03				8,075				30,229				24,344				8,156				3,053							

TC TLOGSTVB				Log Stock Table - MBF																		
				Project: DEMO																		
T2N R8W S23 T0100										T2N R8W S23 T0100												
Twp	Rge	Sec	Tract	Type		Acres	Plots	Sample Trees		Page	2											
2N	8W	23	AREA 3	0100		98.00				Date	11/4/2013											
										Time	10:20:15AM											
Spp	T	S	So	Gr	Log	Gross	% Def	Net	% 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+	
WH		C	4M	15		3		3	.3		3											
WH		C	4M	16		18		18	1.7		18											
WH		C	4M	17		1		1	.1		1											
WH		C	4M	18		24		24	2.2		24											
WH		C	4M	20		19		19	1.8		2		18									
WH		C	4M	21		5		5	.5		5											
WH		C	4M	22		3		3	.3		3											
WH		C	4M	25		6		6	.5		6											
WH		C	4M	26		30		30	2.8		17		12									
WH		C	4M	28		13		13	1.2		13											
WH		C	4M	29		12		12	1.2		12											
WH		C	4M	30		4		4	.4		4											
WH		C	4M	32		4		4	.4		4											
WH		C	4M	33		6		6	.6		6											
WH		C	4M	34		17		17	1.6		17											
WH		C	4M	35		13		13	1.3		13											
WH		C	4M	36		27		27	2.5		8		19									
WH		C	4M	37		21		21	2.0		21											
WH		C	4M	38		31		31	2.9		31											
WH		C	4M	39		39		39	3.6		39											
WH		C	4M	40		49		49	4.5		11		38									
WH		Totals				1,073		1,073	36.3		283		237	167	222	95	30	23	17			
DL		C	2M	36		63		63	16.9						18	20	24					
DL		C	2M	40		212		212	57.0						40	150	22					
DL		C	3M	36		17		17	4.5			3	7	7								
DL		C	3M	40		56		56	15.0			7	40	8								
DL		C	4M																			
DL		C	4M	13		1		1	.2		1											
DL		C	4M	15		6		6	1.6		5		1									
DL		C	4M	19		3		3	.7		3											
DL		C	4M	22		3		3	.8		3											
DL		C	4M	39		5		5	1.4		5											
DL		C	4M	41		7		7	1.8		7											
DL		Totals				372		372	12.6		23		11	47	15	58	171	46				
RA		C	2M	32		19		19	12.3							19						
RA		C	3M	32		31		31	19.9			15		16								
RA		C	3M	35		14		14	9.0			14										
RA		C	3M	39		19		19	12.3			19										
RA		C	4M	12		3		3	1.7			3										
RA		C	4M	14		3		3	2.1			3										
RA		C	4M	19		12		12	7.8			12										
RA		C	4M	20		9		9	6.1			9										
RA		C	4M	24		5		5	3.4			5										
RA		C	4M	26		9		9	6.1			9										
RA		C	4M	28		14		14	9.2			3	12									
RA		C	4M	32		16		16	10.1					16								
RA		Totals				155		155	5.2			93	12	31			19					
CL		C	2M	36		16		16	23.1					16								

TC TLOGSTVB				Log Stock Table - MBF															
				Project: DEMO															
T2N R8W S23 T0100										T2N R8W S23 T0100									
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page	3										
2N	8W	23	AREA 3	0100	98.00			Date	11/4/2013										
								Time	10:20:15AM										
S Spp	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+
CL	C	3M	32	13		13	18.6					13							
CL	C	3M	36	15		15	21.6					15							
CL	C	4M	24	2		2	3.5		2										
CL	C	4M	25	3		3	4.1		3										
CL	C	4M	27	3		3	3.8		3										
CL	C	4M	39	17		17	25.3		17										
CL		Totals		69		69	2.3		25			15	29						
RL	C	3M	31	9		9	26.6			9									
RL	C	3M	32	21		21	65.6			8		13							
RL	C	4M	20	3		3	7.8			3									
RL		Totals		32		32	1.1			19			13						
NL	C	2M	40	76		76	83.4						7	45			24		
NL	C	3M	36	8		8	9.0					8							
NL	C	3M	40	5		5	5.1					5							
NL	C	4M	15	1		1	.7		1										
NL	C	4M	19	1		1	1.3		1										
NL	C	4M	25	1		1	.6		1										
NL		Totals		91		91	3.1		2			13		7	45		24		
DF	C	3M	28	17		17	33.2					17							
DF	C	3M	32	10		10	19.4			10									
DF	C	3M	40	16		16	33.0					16							
DF	C	4M	22	3		3	5.5		3										
DF	C	4M	34	4		4	8.8		4										
DF		Totals		50		50	1.7		7		10	33							
Total All Species				2,960		2,960	100.0		532	369	348	649	410	356	183	67	46		

TC		TSTNDSUM																	Stand Table Summary																
Project																	BYER																		
T2N R8W S23 T0100																	T2N R8W S23 T0100																		
Twp	Rge	Sec	Tract		Type			Acres		Plots	Sample Trees			Page:		1																			
2N	8W	23	AREA 3		0100			98.00		18	133			Date:		08/29/2015																			
														Time:		10:35:13AM																			
S Spc	T	Sample		FF	Av Ht	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net	Net	Totals																					
		DBH	Trees	16'	Tot				Net Cu.Ft.	Net Bd.Ft.		Cu.Ft.	Bd.Ft.	Tons	Cunits	MBF																			
WL		8	1	74	36	5.349	1.87	5.35	4.6	20.0	.79	25	107	77	24	10																			
WL		9	1	74	31	3.958	1.87	3.96	5.5	20.0	.70	22	79	68	21	8																			
WL		10	1	77	76	3.793	1.87	3.79	12.6	40.0	1.53	48	152	150	47	15																			
WL		12	1	77	58	2.589	1.87	2.59	17.1	40.0	1.41	44	104	138	43	10																			
WL		13	5	81	66	10.204	9.34	14.14	16.9	51.4	7.65	239	726	750	234	71																			
WL		14	1	77	56	1.747	1.87	1.75	24.7	90.0	1.38	43	157	135	42	15																			
WL		15	4	83	92	6.046	7.47	12.09	21.2	81.2	8.19	256	981	802	251	96																			
WL		16	6	86	103	7.994	11.20	17.32	24.6	96.8	13.62	426	1,676	1,335	417	164																			
WL		17	5	84	84	5.901	9.34	11.80	25.2	88.7	9.53	298	1,047	934	292	103																			
WL		18	4	84	100	4.274	7.47	9.63	29.2	106.6	9.01	282	1,026	883	276	101																			
WL		19	2	89	97	1.969	3.73	4.94	28.7	117.7	4.54	142	581	445	139	57																			
WL		20	5	84	96	4.376	9.34	11.39	30.2	114.7	11.00	344	1,306	1,078	337	128																			
WL		21	3	89	102	2.315	5.60	6.95	32.1	144.2	7.14	223	1,002	700	219	98																			
WL		22	3	83	101	2.175	5.60	5.82	37.2	139.7	6.92	216	813	678	212	80																			
WL		23	1	78	89	.676	1.87	1.35	46.4	130.0	2.01	63	176	197	61	17																			
WL		27	1	86	92	.470	1.87	.94	72.6	250.0	2.18	68	235	214	67	23																			
WL		28	1	86	101	.443	1.87	1.33	55.2	240.0	2.35	73	319	230	72	31																			
WL		30	1	88	99	.393	1.87	1.18	61.5	280.0	2.32	73	330	228	71	32																			
WL		35	1	86	93	.288	1.87	.86	81.2	353.3	2.24	70	305	220	69	30																			
WL		36	1	83	97	.264	1.87	.79	87.3	366.7	2.21	69	291	217	68	28																			
WL		Totals	48	82	79	65.225	89.63	117.97	25.6	96.8	96.72	3,022	11,414	9,478	2,962	1,119																			
WH		9	4	79	66	17.612	7.47	17.61	9.2	34.9	5.19	162	615	508	159	60																			
WH		10	6	80	89	20.086	11.20	33.33	9.2	37.1	9.77	305	1,237	957	299	121																			
WH		11	9	81	95	25.524	16.80	45.39	11.5	42.3	16.70	522	1,922	1,636	511	188																			
WH		12	1	77	58	2.589	1.87	2.59	17.1	40.0	1.41	44	104	138	43	10																			
WH		13	5	83	95	10.105	9.34	20.21	15.6	58.7	10.06	315	1,187	986	308	116																			
WH		14	4	85	98	7.250	7.47	16.25	16.2	66.3	8.40	263	1,077	823	257	106																			
WH		15	5	85	103	7.533	9.34	16.51	21.5	86.4	11.35	355	1,427	1,112	348	140																			
WH		16	2	85	94	2.796	3.73	5.59	23.8	90.0	4.27	133	503	418	131	49																			
WH		17	3	85	96	3.501	5.60	8.16	24.7	92.7	6.44	201	756	631	197	74																			
WH		18	3	85	105	3.197	5.60	9.59	21.9	86.5	6.72	210	830	658	206	81																			
WH		21	1	83	68	.791	1.87	1.58	33.3	100.0	1.69	53	158	165	52	16																			
WH		22	1	83	65	.741	1.87	1.48	35.0	100.0	1.66	52	148	162	51	15																			
WH		23	1	83	62	.647	1.87	1.29	36.7	100.0	1.52	48	129	149	47	13																			
WH		24	2	84	102	1.194	3.73	3.58	40.4	166.4	4.63	145	596	454	142	58																			
WH		34	1	77	94	.296	1.87	.89	70.9	293.3	2.02	63	261	198	62	26																			
WH		Totals	48	82	89	103.863	89.63	184.05	15.6	59.5	91.82	2,869	10,951	8,998	2,812	1,073																			
DL		18	1	85	123	1.057	1.87	3.17	25.0	96.7	2.18	79	306	214	78	30																			
DL		19	1	89	101	.969	1.87	1.94	35.0	135.0	1.86	68	262	183	66	26																			
DL		20	2	84	118	1.687	3.73	5.06	29.9	124.7	4.16	151	631	408	148	62																			
DL		21	2	87	121	1.575	3.73	4.73	33.7	149.8	4.37	159	708	429	156	69																			
DL		22	1	82	117	.707	1.87	2.12	35.4	133.3	2.07	75	283	202	74	28																			
DL		23	3	84	101	1.999	5.60	4.67	45.2	159.9	5.82	211	748	570	207	73																			
DL		25	1	85	118	.557	1.87	1.67	45.4	190.0	2.08	76	317	204	74	31																			
DL		26	1	77	96	.506	1.87	1.52	43.7	140.0	1.82	66	213	179	65	21																			
DL		28	1	86	108	.453	1.87	1.36	53.8	240.0	2.01	73	326	197	72	32																			
DL		Totals	13	85	112	9.509	24.27	26.24	36.6	144.6	26.38	959	3,793	2,585	940	372																			
RA		10	2	76	68	6.454	3.73	9.68	8.3	26.7	2.20	80	258	216	78	25																			
RA		12	2	79	69	4.966	3.73	4.97	17.6	60.0	2.40	87	298	236	86	29																			
RA		13	1	75	27	1.965	1.87	1.96	11.3	30.0	.61	22	59	60	22	6																			

TC		TSTNDSUM		Stand Table Summary													
Project						BYER											
T2N R8W S23 T0100												T2N R8W S23 T0100					
Twp	Rge	Sec	Tract	Type				Acres	Plots	Sample Trees			Page:	2			
2N	8W	23	AREA 3	0100				98.00	18	133			Date:	08/29/2013			
												Time:	10:35:13AM				
S Spc	T	Sample		Av	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net	Net	T o t a l s				
		DBH	Trees	FF 16'				Ht Tot	Net Cu.Ft.		Net Bd.Ft.	Cu.Ft. Acre	Bd.Ft. Acre	Tons	Cunits	MBF	
RA		14	1	82	70	1.698	1.87	3.40	13.1	45.0	1.22	44	153	119	43	15	
RA		15	1	82	59	1.522	1.87	1.52	29.1	70.0	1.22	44	107	119	43	10	
RA		16	2	80	79	2.675	3.73	5.35	19.9	75.0	2.93	107	401	287	104	39	
RA		17	1	83	55	1.257	1.87	1.26	32.4	70.0	1.12	41	88	110	40	9	
RA		26	1	85	74	.526	1.87	1.05	55.0	210.0	1.59	58	221	156	57	22	
RA		Totals	11	79	65	21.063	20.54	29.19	16.6	54.3	13.30	484	1,585	1,303	474	155	
NL		24	1	94	113	.594	1.87	1.78	43.0	206.7	1.84	77	369	180	75	36	
NL		33	1	83	123	.314	1.87	.94	56.2	256.7	1.27	53	242	125	52	24	
NL		42	1	85	130	.194	1.87	.58	105.1	546.7	1.47	61	318	144	60	31	
NL		Totals	3	89	119	1.103	5.60	3.31	57.7	280.8	4.58	191	929	449	187	91	
CL		10	1	78	76	3.227	1.87	3.23	15.5	40.0	1.18	50	129	115	49	13	
CL		17	1	77	50	1.213	1.87	1.21	33.4	40.0	.95	41	49	93	40	5	
CL		19	1	77	80	.948	1.87	1.90	30.8	95.0	1.37	58	180	134	57	18	
CL		20	1	80	80	.900	1.87	1.80	32.9	105.0	1.39	59	189	137	58	19	
CL		21	1	78	70	.815	1.87	1.63	32.9	95.0	1.26	54	155	124	53	15	
CL		Totals	5	78	72	7.103	9.34	9.77	26.8	71.8	6.15	262	702	603	257	69	
DF		16	1	83	114	1.407	1.87	4.22	16.0	70.0	1.92	67	295	188	66	29	
DF		18	1	83	96	1.118	1.87	2.24	27.0	95.0	1.72	60	212	169	59	21	
DF		Totals	2	83	106	2.525	3.73	6.46	19.8	78.7	3.64	128	508	357	125	50	
RL		14	1	80	49	1.747	1.87	1.75	20.7	50.0	.89	36	87	87	35	9	
RL		16	1	81	45	1.304	1.87	1.30	26.6	60.0	.85	35	78	83	34	8	
RL		20	1	83	70	.856	1.87	1.71	30.8	110.0	1.29	53	188	126	52	18	
RL		Totals	3	81	52	3.907	5.60	4.76	25.9	74.3	3.03	124	354	297	121	35	
Totals		133		81	84	214.298	248.34	381.74	21.1	79.2	245.61	8038	30,235	24,070	7,878	2,963	



"STEWARDSHIP IN FORESTRY"

Beyer Sell

Volume Summary

Area 1-Harvest Type PC				
80 acres				
SPECIES	Cruised Net	Cruised Net	Hidden	Net Sale
	MBF/ Acre	MBF	D&B	MBF
Douglas-fir	1.2	94	5%	90
Hemlock	4.2	339	5%	322
Cedar		0	5%	0
Noble Fir		0	5%	0
Alder	2.5	200	10%	180
TOTAL	7.9	634		592

Areas 2-Harvest Type MC				
101 acres				
SPECIES	Cruised Net	Cruised Net	Hidden	Net Sale
	MBF/ Acre	MBF	D&B	MBF
Douglas-fir	11.4	1151	5%	1093
Hemlock	13.8	1398	5%	1328
Cedar		0	5%	0
Noble Fir		0	5%	0
Alder	3.1	312	10%	281
TOTAL	28.3	2861		2702

Areas 3-Harvest Type PC				
98 acres				
SPECIES	Cruised Net	Cruised Net	Hidden	Net Sale
	MBF/ Acre	MBF	D&B	MBF
Douglas-fir	0.5	50	5%	47
Hemlock	11.0	1073	5%	1020
Cedar		0	5%	0
Noble Fir		0	5%	0
Alder	1.6	155	10%	140
TOTAL	13.0	1278		1207

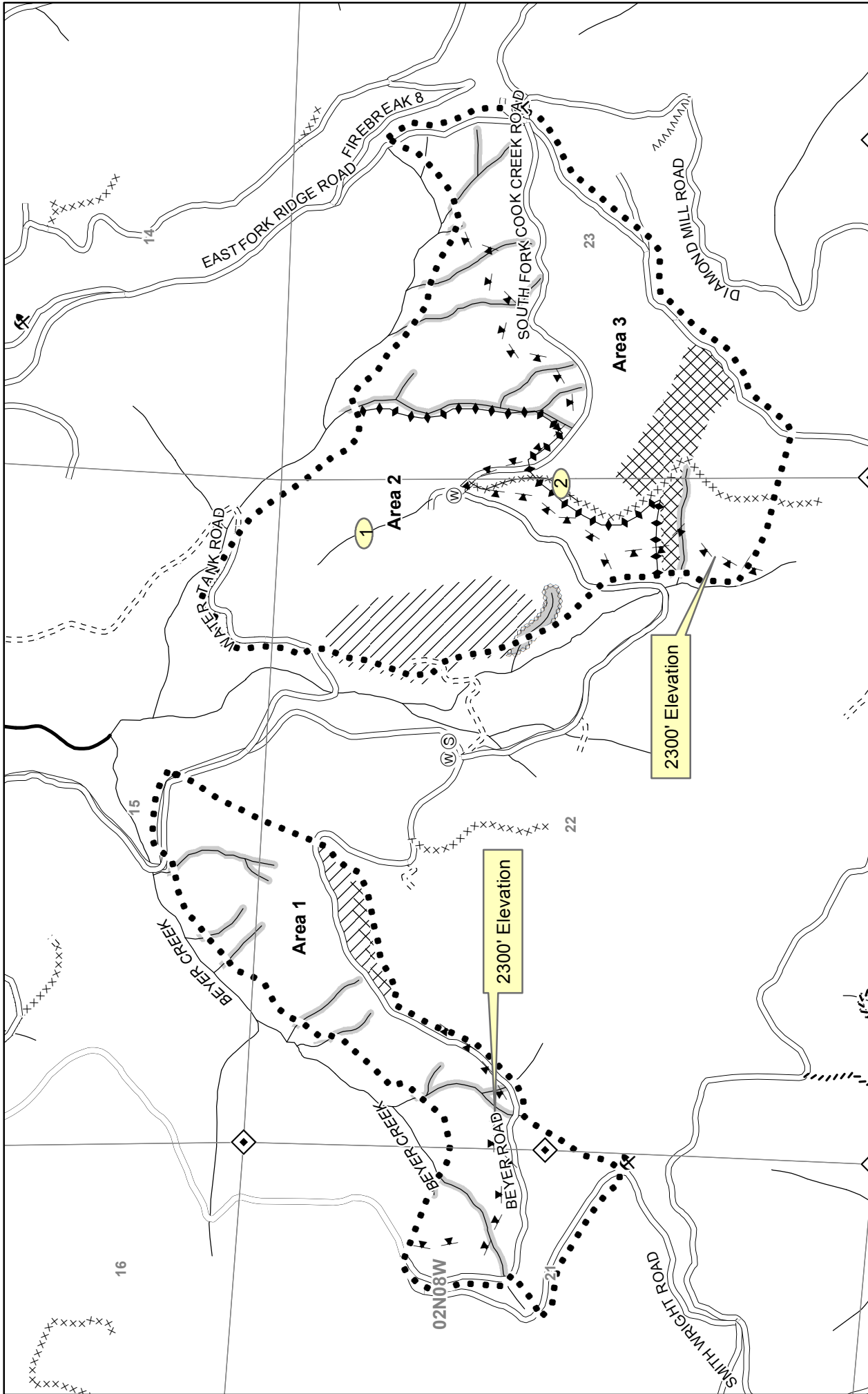


"STEWARDSHIP IN FORESTRY"

Beyer Sell

Volume Summary

TOTAL SALE VOLUME			279	acres
SPECIES	Cruised Net (MBF)		Net Sale (MBF)	
Douglas-fir	1295		1230	
Hemlock	2810		2669	
Cedar	0		0	
Noble Fir	0		0	
Red Alder	668		601	
TOTAL	4773		4500	



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

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

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

Swing road
 Swing road
 Non-project road
 Blocked road
 OHV trail
 Non-motorized trail
 Transmission line
 Railroad
 2300' Elevation

LOGGING PLAN
Timber Sale Contract No. 341-14-60
Beyer Sell
Portions of Sections 15, 21, 22, and 23
T2N, R8W, W.M.,
Tillamook County, Oregon

Tillamook District GIS
8/26/2013

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

Acres

Area	Type of Operation	Gross	Net
1	Partial Cut	105	88
2	Modified Clearcut	136	102
3	Partial Cut	133	108
Total		374	298

N

1,000 Feet

0 1,000