



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Rock-n-Roy
Sale 341-08-71

District: Tillamook

Date: April 02, 2008

cost summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$80,450.14	\$108,972.56	\$189,422.70
		Project Work:	\$(77,500.00)
		Advertised Value:	\$111,922.70



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timber description

Location: Portions of Section 32, T3N, R9W, W.M., Tillamook County, Oregon.

Stand Stocking: 80%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	15	0	95
Western Hemlock / Fir	14	0	95
Sitka Spruce	12	0	95
Red Cedar	14	0	95
Alder (Red)	17	0	95

Volume by Grade	2S	3S	4S	Total
Douglas - Fir	188	216	107	511
Western Hemlock / Fir	105	132	87	324
Sitka Spruce	0	17	2	19
Red Cedar	0	8	11	19
Alder (Red)	144	198	244	586
Total	437	571	451	1,459



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comments: Pond Values Used: 1st Quarter Calendar Year 2008.

Local Pond Values applied to alder.

OTHER COSTS (Profit & Risk to be added):

Brand and Paint- \$2/MBF x 1,459 MBF = \$ 2,918

Snag creation by topping at 40': 50 snags x \$50/snag = \$2,500

Extra logging costs (over buffer) in Area 2: \$ 5/MBF x 60 MBF = \$ 300

Directional felling/ line pulling around domestic water: 1 acre x \$150/ acre = \$ 150

Tractor Swing

Area 1A: 3 acres x 16.3 MBF/ acre x \$ 18 /MBF = \$ 880

Area 1B: 28 acres x 16.3 MBF/ acre x \$ 14/ MBF = \$ 6,390

Truck Assist (Areas 1 and 2): \$35/MBF x 1,459MBF = \$ 51,065

Yarder assist in and out of swing road B: \$ 300

TOTAL OTHER COSTS (Profit & Risk to be added): \$ 64,503

OTHER COSTS (No Profit & Risk added):

Abandon non-surfaced roads in Areas 1 and 2 (total of 20+55 stations)

Block with "tank trap": 2 @ \$ 75 = \$ 150

Rip @ \$ 25/ station x 20+55 stations = \$ 514

Fertilize and grass seed @ \$ 220/ acre x 20' x 20+55 stations = \$ 208

TOTAL OTHER COSTS (No Profit & Risk added): \$ 872

ROAD MAINTENANCE

Grading all roads 2 times x \$500/Mile x 1.8 miles/ 1459 MBF = \$ 1.23

Maintenance rock 50 cu yd x \$15.08/cy / 1459 MBF = \$ 0.52

TOTAL ROAD MAINTENANCE COST: \$ 1.75/ MBF



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logging conditions

combination#: 1

Douglas - Fir	87.08%
Western Hemlock / Fir	83.33%
Sitka Spruce	100.00%
Red Cedar	100.00%

yarding distance: Medium (800 ft) **downhill yarding:** No
logging system: Cable: Medium Tower >40 - <70 **Process:** Stroke Delimber
tree size: Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF
loads / day: 6.2 **bd. ft / load:** 4,200
cost / mbf: \$127.54

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

combination#: 2

Douglas - Fir	8.52%
Western Hemlock / Fir	11.00%
Alder (Red)	29.85%

yarding distance: Short (400 ft) **downhill yarding:** No
logging system: Cable: Medium Tower >40 - <70 **Process:** Stroke Delimber
tree size: Mature / Partial Cut (900 Bft/tree), 3-5 logs/MBF
loads / day: 4.8 **bd. ft / load:** 4,200
cost / mbf: \$165.88

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

combination#: 3

Douglas - Fir	4.39%
Western Hemlock / Fir	5.67%
Alder (Red)	15.38%

yarding distance: Short (400 ft) **downhill yarding:** No
logging system: Track Skidder **Process:** Stroke Delimber
tree size: Mature / Partial Cut (900 Bft/tree), 3-5 logs/MBF
loads / day: 8.0 **bd. ft / load:** 4,200
cost / mbf: \$43.07

machines: Stroke Delimber (B)



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combination#: 4

	Alder (Red)	54.78%	
yarding distance:	Medium (800 ft)	downhill yarding:	No
logging system:	Cable: Medium Tower >40 - <70	Process:	Manual Delimiting
tree size:	Mature / Partial Cut (900 Bft/tree), 3-5 logs/MBF		
loads / day:	4.2	bd. ft / load:	3,400
cost / mbf:	\$242.30		
machines:	Log Loader (A) Tower Yarder (Medium)		



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logging costs

Operating Seasons:	1.00	Profit Risk:	15.00%
Project Costs:	\$77,500.00	Other Costs (P/R):	\$64,503.00
Slash Disposal:	\$0.00	Other Costs:	\$872.00

Miles of Road

Road Maintenance: \$1.75

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

Hauling Costs

Species	\$ / MBF	Trips/Day	MBF / Load
Douglas - Fir	\$0.00	2.0	4.0
Western Hemlock / Fir	\$0.00	3.0	3.8
Sitka Spruce	\$0.00	3.0	3.8
Red Cedar	\$0.00	2.0	3.0
Alder (Red)	\$0.00	3.0	2.8

Local Pond Values

Date	Specie	Grade	Value
4/2/08	Western Hemlock / Fir	3S	\$320.00
4/2/08	Sitka Spruce	3S	\$365.00
4/2/08	Alder (Red)	2S	\$750.00
4/2/08	Alder (Red)	3S	\$650.00
4/2/08	Alder (Red)	4S	\$350.00



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Date: April 02, 2008

logging costs breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
Douglas - Fir									
\$127.10	\$1.84	\$3.01	\$79.89	\$44.21	\$38.41	\$0.00	\$2.00	\$0.60	\$297.06
Western Hemlock / Fir									
\$126.97	\$1.84	\$3.01	\$56.06	\$44.21	\$34.81	\$0.00	\$2.00	\$0.60	\$269.50
Sitka Spruce									
\$127.54	\$1.84	\$3.01	\$56.06	\$44.21	\$34.90	\$0.00	\$2.00	\$0.60	\$270.16
Red Cedar									
\$127.54	\$1.84	\$3.01	\$106.52	\$44.21	\$42.47	\$0.00	\$2.00	\$0.60	\$328.19
Alder (Red)									
\$188.86	\$1.84	\$3.01	\$76.08	\$44.21	\$47.10	\$0.00	\$2.00	\$0.60	\$363.70

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$395.26	\$98.20	\$0.00
Western Hemlock / Fir	\$0.00	\$315.19	\$45.69	\$0.00
Sitka Spruce	\$0.00	\$362.37	\$92.21	\$0.00
Red Cedar	\$0.00	\$1,050.00	\$721.81	\$0.00
Alder (Red)	\$0.00	\$549.66	\$185.96	\$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
Sitka Spruce	0	\$0.00	\$0.00
Red Cedar	0	\$0.00	\$0.00
Alder (Red)	0	\$0.00	\$0.00

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	511	\$98.20	\$50,180.20
Western Hemlock / Fir	324	\$45.69	\$14,803.56
Sitka Spruce	19	\$92.21	\$1,751.99
Red Cedar	19	\$721.81	\$13,714.39
Alder (Red)	586	\$185.96	\$108,972.56

Gross Timber Sale Value

Recovery: \$189,422.70

Prepared by: David Wells

Phone: 503-842-2545

SUMMARY OF CONSTRUCTION COST

Sale:	Rock-n-Roy		Road:	A to B				
Construction -	0+00 0.00	stations miles	Improvement -	90+50 1.71	stations miles	Reconstruction -	0+00 0.00	stations miles

IMPROVEMENT: EXCAVATION					
Ditchline Material (Including Endhaul)	74.00	sta. @	\$80.00	per sta. =	\$5,920.00
				TOTAL EXCAVATION	\$5,920.00

ROCK					
0+00 to 90+50	2,040	cy. of	Crushed	@	\$17.53 per c.y. =
					\$35,761.20
					TOTAL ROCK
					\$35,761.20

SPECIAL PROJECTS					
Grade and shape road -	90.50	stations @	\$15.50	per station	\$1,402.75
Proof-Roll subgrade prior to rocking	90.50	stations @	\$4.70	per station	\$425.35
Roll subgrade w/ vibratory roller prior to rocking -	90.50	stations @	\$13.20	per station	\$1,194.60
Grass seed and fertilize -	0.83	acres @	\$220.00	per acre	\$182.60
Mulching -	0.831	acres @	\$600.00	per acre	\$498.60
				TOTAL SPECIAL PROJECTS	\$3,703.90

GRAND TOTAL	\$45,385.10
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SUMMARY OF CONSTRUCTION COST

Sale:

Rock-n-Roy

Road:

C to D

Construction -	24+85	stations	Improvement -Ditch Lt & Rt	13+50	stations	Reconstruction -	0+00	stations
	0.47	miles	9+25-11+85	0.26	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	=	
13+50		19+50	0%		Outslope	\$55	=	\$330.00
19+50		22+70	10%		Outslope	\$90	=	\$288.00
22+70		24+05	40%		Outslope	\$243	=	\$328.05
24+05		27+45	55%		Outslope	\$689	=	\$2,342.60
27+45		28+95	30%		Outslope	\$191	=	\$286.50
28+95		33+85	0%		Outslope	\$55	=	\$269.50
33+85		38+35	30%		Outslope	\$191	=	\$859.50
38+35		39+70	0%		Outslope	\$55	=	\$74.25
TOTAL								\$4,778.40

IMPROVEMENT: CLEARING AND GRUBBING -

Widening	0.084	acres @	\$660.00	per acre =	\$55.44
Scattering	0.620	acres @	\$980.00	per acre =	\$607.60
TOTAL CLEARING AND GRUBBING					\$663.04

IMPROVEMENT: EXCAVATION -

Road Earthwork	13.50	sta. @	\$10.00	per sta. =	\$135.00
Widening	176	cy. @	\$1.40	per c.y. =	\$246.40
TOTAL EXCAVATION					\$381.40

CONSTRUCTION: EXCAVATION FOR THRU CUTS FROM 13+50 to 16+05 & 17+60 to 19+50

Widening	2037	cy. @	\$1.40	per c.y. =	\$2,851.80
TOTAL EXCAVATION					\$2,851.80

CONSTRUCTION: ENDHAUL FOR THRU CUT FROM 13+50 to 16+05

Widening	13+50	to	16+05	1167	cy. @	\$1.24	per c.y. =	\$1,447.08
Spread & compact				1167	cy. @	\$0.25	per c.y. =	\$291.75
TOTAL ENDHAUL								\$1,738.83

ROCK

0+00 to	12+00		430	cy. of	Jaw_Run	@	\$14.02	per c.y. =	\$6,028.60
12+00 to	21+30		550	cy. of	Jaw Run	@	\$13.15	per c.y. =	\$7,232.50
TOTAL ROCK									\$13,261.10

SPECIAL PROJECTS

Grade and shape road -	38.35	stations @	\$15.50	per station	\$594.43
Proof-Roll subgrade prior to rocking	21.3	stations @	\$4.70	per station	\$100.11
Roll subgrade w/ vibratory roller prior to rocking -	38.35	stations @	\$13.20	per station	\$506.22
Grass seed and fertilize -	0.97	acres @	\$220.00	per acre	\$213.40
TOTAL SPECIAL PROJECTS					\$1,414.16

GRAND TOTAL

\$25,088.73

SUMMARY OF ROAD VACATING COST

Sale:

Rock-n-Roy

Road:

E to F

<u>Construction -</u>	0+00	stations	<u>Abandonment-</u>	5+00	stations	<u>Reconstruction -</u>	0+00	stations
	0.00	miles		0.09	miles		0.00	miles

ABANDONMENT: EXCAVATION -
Pullback

	2408	cy. @	\$1.40	per c.y. =	\$3,371.20		
				TOTAL EXCAVATION		\$3,421.20	

Grass seed and fertilize -
Mulching -

	0.40	acres @	\$220.00	per acre	\$88.00		
	0.400	acres @	\$600.00	per acre	\$240.00		
				TOTAL SPECIAL PROJECTS		\$328.00	

GRAND TOTAL		\$3,749.20
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SUMMARY OF CONSTRUCTION COST

Sale: **Rock-n-Roy**

Road: **G to H**

Construction -	3+50 0.07	stations miles	Improvement -	0+00 0.00	stations miles	Reconstruction -	0+00 0.00	stations miles
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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	=	\$315.00	
0+00		3+50	10%		Outslope	\$90			
								TOTAL	\$315.00

SPECIAL PROJECTS

Grade and shape road -	3.50	stations @	\$15.50	per station	\$54.25
Roll subgrade	3.50	stations @	\$13.20	per station	\$46.20
					TOTAL SPECIAL PROJECTS
					\$100.45

GRAND TOTAL **\$415.45**

ROCK COST SUMMARY

Pit: Foss Road - Mohler Commercial Source Location: Sec.5 , T2N, R9W, W.M.
 Sale: Rock-n-Roy Road: 980 c.y.
 Total Truck Loads: 980 c.y.

Base Cost= \$8.00 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
C to D 0 1200 (Jaw_Run)	3.57	2.45	8.00	14.02	430	\$6,028.60
C to D 1200 2130 (Jaw Run)	4.05	1.10	8.00	13.15	550	\$7,232.50
				Total C.Y.	980	Sub Total
						\$13,261.10
TOTAL ROCKING COSTS						\$13,261.10

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

1 1/2"-0" Pit: N.F. Nehalem Rd. - Mohler Brown Location: Sec. 15, T3N, R10W, W.M.
 Sale: Rock-n-Roy Road: 2040 c.y.
 Base Cost= \$9.50 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 0 9050 (Crushed)	5.58	2.45	9.50	17.53	2040	\$35,761.20
				Total C.Y.	2040	Sub Total
						\$35,761.20
TOTAL ROCKING COSTS						\$35,761.20



OREGON DEPARTMENT OF FORESTRY CRUISE REPORT *Rock-n-Roy*

1. Type of Sale

Partial Cut/ Modified Clearcut harvest, Recovery

2. Legal Description

Portions of Section 32, T3N, R9W, W.M. Tillamook County, Oregon

3. Sale Acreage

Sale acreage was determined plotting the boundaries on a digital ortho photograph using GPS and photo interpretation followed by acreage calculation with GIS.

	ACRES	
	<u>Gross</u>	<u>Net</u>
Area 1 (Modified Clearcut)	70	66
Area 2 (Partial cut)	35	32

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

Areas 1 and 2 were cruised on a rectangular grid with lines 350' apart and plots located every 175'. A total of 63 plots were taken with ½ measured and graded and on the other ½, diameters only were measured. The CV% and SE% for net board feet per acre are 74.1 and 9.3 respectively.

All conifers 8 inches and greater and all hardwoods 10 inches DBH and greater were recorded on the measure plots. Species were recorded on all trees and merchantable height, grade, diameter, and form factor on the measured trees.

A BAF of 40 was used on all plots. The point of observation was at 4.5 feet.

B. Grading System

All conifer and hardwood trees were graded according to the Columbia River Log Scaling and Grading Rules. Tree heights were cruised to a 6 inch outside bark for all conifers, 7 outside bark for all hardwoods, or three tenths (0.3) of DBH for all species, whichever was greater. Top diameters for hemlock, Sitka spruce,

and cedar were adjusted in the SuperAce program to meet changed minimum saw log merchantability specifications of 8 inches gross scaling diameter. Log lengths all favored 40 feet. Height and diameter measurements were to the nearest foot or inch respectively. All diameters were taken at a height of 4.5 feet. Conifers less than 20 board feet and hardwoods less than 30 board feet were not recorded.

5. Computation Procedure

Plot data was entered into the SuperAce program for computation of basal area, stand tables, board foot volumes and grades for each species. This data was then entered into the Volume Summary Worksheet to compute the sale volumes.

6. Hidden Defect and Breakage

Hidden defect and breakage was 5% for conifers and 10% for hardwoods.

7. Timber Description

Areas 1 and 2 were logged in the late 1950's to early 1960's. Approximately 40% was planted in 1966 and the remainder of the area naturally regenerated.

8. Cruiser Names/Dates

Luttrell, Yau, Stumpf, Anderson, Wells/ November 2007

9. Revenue Distribution

FDF: 100%

Tax Code: 56-1

Deed Number: 35

10. Attachments

Stand Table (partial cut)

Volume Summaries

Log Stock Tables

Logging Plan Map

11. Stand and Log Stock Tables Species Key

DL – Douglas-fir leave

DF – Douglas-fir take

RL – Red alder leave

RA – Red alder take

SL – Sitka spruce leave

SS – Sitka spruce take

WL – Western hemlock leave

WH – Western hemlock take

CL – Western red cedar leave

RC-Western red cedar take

TC TSTNDSUM		Stand Table Summary														
Project MOOTA <i>Rock-n-Roy</i>											Page: I					
T029 R09W S01 TMBF											Date: 01/28/201					
Twp Rge Sec Tract Type Acres Plots Sample Trees											Time: 2:16:18PM					
029 09W 01 AREA 2-SALE8 MBF 32.00																
Spc	S T	Sample		Av		Trees/ BA/ Logs	Average Log		Net		Net		Totals			
		DBH	Trees	FF 16'	Ht Tot		Acres	Acres	Acres	Net Cu.Ft.	Net Bd.Ft.	Tons/ Acres	Cu.Ft. Acres	Bd.Ft. Acres	Tons	Cunits
RA		12	4	80	68	11.413	8.96	14.27	15.1	52.0	5.91	215	742	189	69	24
RA		13	2	79	58	4.863	4.48	4.86	21.0	60.0	2.80	102	292	90	33	9
RA		14	2	79	59	4.193	4.48	4.19	24.0	65.0	2.77	101	273	89	32	9
RA		15	5	80	67	9.131	11.21	12.78	23.1	62.9	8.10	295	804	259	94	26
RA		18	6	80	58	7.609	13.45	10.15	31.3	83.8	8.74	318	850	280	102	27
RA		19	2	80	63	2.276	4.48	4.55	26.3	80.0	3.29	120	364	105	38	12
RA		20	2	80	63	2.054	4.48	3.08	35.1	113.3	2.97	108	349	95	35	11
RA		21	3	80	50	2.795	6.72	2.80	52.3	83.3	4.02	146	233	129	47	7
RA		22	2	82	95	1.698	4.48	3.40	49.3	185.0	4.60	167	628	147	54	20
RA		23	5	82	93	3.884	11.21	9.32	45.0	173.3	11.54	419	1,616	369	134	52
RA		24	2	80	76	1.427	4.48	2.85	49.8	157.5	3.91	142	449	125	45	14
RA		25	2	80	66	1.315	4.48	2.63	48.5	142.5	3.50	127	375	112	41	12
RA		26	1	86	129	.608	2.24	1.82	61.2	266.7	3.07	112	486	98	36	16
RA		27	1	80	61	.564	2.24	.56	104.0	240.0	1.61	59	135	52	19	4
RA		29	2	83	109	.977	4.48	2.44	81.1	332.0	5.45	198	811	174	63	26
RA		30	1	84	125	.457	2.24	1.37	79.1	363.3	2.98	108	498	95	35	16
RA		33	1	80	78	.377	2.24	.75	101.7	300.0	2.11	77	226	68	25	7
RA	Totals		43	80	68	55.639	96.36	81.83	34.4	111.6	77.37	2,814	9,130	2,476	901	292
DL		18	1	84	104	2.245	3.97	4.49	32.2	110.0	3.98	145	494	127	46	16
DL		20	1	86	117	1.818	3.97	5.45	30.1	116.7	4.51	164	636	144	53	20
DL		24	2	84	113	2.525	7.93	6.31	50.8	190.0	8.80	321	1,200	282	103	38
DL		25	1	83	140	1.164	3.97	3.49	54.1	236.7	5.19	189	826	166	60	26
DL		29	1	83	137	.865	3.97	2.59	70.6	313.3	5.04	183	813	161	59	26
DL		30	1	83	142	.808	3.97	2.42	78.7	376.7	5.24	191	913	168	61	29
DL		31	2	85	133	1.514	7.93	4.54	78.7	366.7	9.83	358	1,665	315	114	53
DL		35	1	84	151	.594	3.97	1.78	112.9	553.3	5.53	201	986	177	64	32
DL		37	1	87	128	.531	3.97	1.59	114.9	596.7	5.04	183	951	161	59	30
DL	Totals		11	84	123	12.064	43.64	32.68	59.2	259.6	53.16	1,934	8,484	1,701	619	271
WL		15	1	84	80	2.434	2.99	4.87	16.7	55.0	2.60	81	268	83	26	9
WL		19	1	85	59	1.517	2.99	3.03	23.1	90.0	2.24	70	273	72	22	9
WL		20	1	85	97	1.369	2.99	2.74	40.6	150.0	3.55	111	411	114	36	13
WL		21	1	84	76	1.242	2.99	2.48	36.4	115.0	2.90	91	286	93	29	9
WL		22	2	84	66	2.263	5.97	3.39	49.0	140.0	5.33	166	475	170	53	15
WL		24	1	81	118	.951	2.99	2.85	45.0	183.3	4.11	128	523	131	41	17
WL		27	3	80	118	2.254	8.96	6.76	52.0	226.7	11.24	351	1,533	360	112	49
WL		29	1	85	91	.651	2.99	1.30	85.3	335.0	3.55	111	436	114	36	14
WL		31	1	85	112	.570	2.99	1.71	76.1	330.0	4.16	130	564	133	42	18
WL		32	1	82	120	.535	2.99	1.60	82.6	353.3	4.24	132	567	136	42	18
WL		34	1	83	113	.474	2.99	1.42	91.0	406.7	4.14	129	578	132	41	18
WL	Totals		14	83	90	14.259	41.82	32.17	46.7	183.8	48.06	1,502	5,913	1,538	481	189
DF		14	1	83	62	3.061	3.27	3.06	22.4	60.0	1.95	68	184	62	22	6
DF		19	1	86	96	1.662	3.27	3.32	34.1	120.0	3.23	113	399	103	36	13
DF		22	1	85	123	1.240	3.27	3.72	38.9	166.7	4.13	145	620	132	46	20
DF		25	1	83	97	.960	3.27	1.92	60.2	215.0	3.29	116	413	105	37	13
DF		26	1	84	127	.888	3.27	2.66	53.1	223.3	4.03	141	595	129	45	19
DF	Totals		5	84	91	7.811	16.36	14.69	39.7	150.5	16.63	583	2,210	532	187	71
CL		25	1	83	80	.640	2.18	1.28	57.8	200.0	1.74	74	256	56	24	8
CL		27	1	79	54	.549	2.18	.55	96.4	150.0	1.24	53	82	40	17	3
CL		28	1	74	93	.510	2.18	1.02	79.9	230.0	1.92	82	235	61	26	8

Stand Table Summary

Project

~~MOOTA~~

Rock-n-Roy

T029 R09W S01 TMBF

~~XXXXXXXXXXXXXXXXXXXX~~

Twp Rge Sec Tract Type Acres Plots Sample Trees
 029 09W 01 AREA 2-SALE8 MBF 32.00

Page: 2
 Date: 01/28/201
 Time: 2:16:18PM

S Spc	T	DBH	Sample Trees	FF 16'	Av Ht Tot	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals				
									Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF		
CL		30	1	82	73	.444	2.18	.89	71.6	240.0	1.50	64	213	48	20	7		
CL		31	2	78	88	.833	4.36	1.67	93.7	297.5	3.67	156	495	117	50	16		
CL		33	1	83	66	.367	2.18	.73	86.0	240.0	1.49	63	176	48	20	6		
CL		35	1	74	65	.327	2.18	.65	90.8	265.0	1.39	59	173	45	19	6		
CL		44	1	78	91	.207	2.18	.41	193.1	640.0	1.88	80	264	60	26	8		
CL		46	1	76	90	.189	2.18	.38	207.8	620.0	1.85	79	234	59	25	8		
CL		Totals			10	79	78	4.066	21.82	7.58	93.5	280.9	16.66	709	2,130	533	227	68
WH		11	1	82	43	6.199	4.09	6.20	9.6	40.0	1.90	59	248	61	19	8		
WH		15	2	86	86	6.667	8.18	13.33	18.8	72.5	8.01	250	967	256	80	31		
WH		17	1	87	95	2.595	4.09	5.19	28.2	110.0	4.68	146	571	150	47	18		
WH		Totals			4	85	70	15.461	16.36	24.72	18.4	72.2	14.59	456	1,786	467	146	57
RL		9	1	79	21	4.116	1.82	4.12	5.1	20.0	.58	21	82	18	7	3		
RL		10	3	80	43	10.001	5.45	10.00	8.3	26.7	2.28	83	267	73	27	9		
RL		11	2	80	72	5.510	3.64	5.51	15.2	55.0	2.30	84	303	74	27	10		
RL		Totals			6	80	46	19.626	10.91	19.63	9.6	33.2	5.16	188	652	165	60	21
BM		20	1	80	31	1.667	3.64	1.67	31.6	40.0	1.40	53	67	45	17	2		
BM		Totals			1	80	31	1.667	3.64	1.67	31.6	40.0	1.40	53	67	45	17	2
OC		18	1	53	37	1.200	2.12											
OC		20	1	67	50	.972	2.12											
OC		23	1	73	60	.735	2.12											
OC		30	1	54	21	.432	2.12											
OC		38	1	59	23	.269	2.12											
OC		48	1	53	37	.169	2.12											
OC		Totals			6	61	42	3.778	12.73									
Totals		100	81	73		134.372	263.64	214.98	38.3	141.3	233.03	8239	30,372	7,457	2,636	972		



"STEWARDSHIP IN FORESTRY"

Rock-n-Roy

Volume Summary

Area 1-Modified Clearcut					
				acres	66
SPECIES	Gross MBF/ Acre	Gross MBF	Hidden D&B	Net Vol MBF	
Douglas-fir	7.1	469	5%	445	
Hemlock	4.3	284	5%	270	
Spruce	0.3	20	5%	19	
Cedar	0.3	20	5%	19	
Alder	5.4	356	10%	321	
TOTAL	17.4	1148		1073	

Area 2-Partial Cut					
				acres	32
SPECIES	Gross MBF/ Acre	Gross MBF	Hidden D&B	Net Vol MBF	
Douglas-fir	2.2	70	5%	67	
Hemlock	1.8	58	5%	55	
Alder	9.2	294	10%	265	
TOTAL	13.2	422		387	

TOTAL SALE VOLUME			98	acres
SPECIES	Gross Vol. (MBF)	Net Vol. (MBF)		
Douglas-fir	539	511		
Hemlock	341	324		
Spruce	20	19		
Cedar	20	19		
Alder	651	586		
TOTAL	1571	1459		

Log Stock Table - MBF

Project: ~~MOOTA~~ *Rock-n-Roy*

T029 R09W S01 TSALE

Page 2
Date 1/28/2008
Time 2:28:34PM

Twp Rge Sec Tract Type Acres Plots Sample Trees
029 09W 01 AREA 1 AND 2 SALE 98.00

S Spp	So T	Gr rt	Log de 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	DO	4M	25	1		1	.2			1											
DF	DO	4M	26	3		3	.7			3											
DF	DO	4M	27	3		3	.6			3											
DF	DO	4M	30	3		3	.6			3											
DF	DO	4M	32	14		14	2.6				14										
DF	DO	4M	34	17		17	3.3			17											
DF	DO	4M	35	5		5	.9			5											
DF	DO	4M	37	5		5	.9			5											
DF	DO	4M	40	24		24	4.5			14	7	3									
DF	Totals			531		531	21.1			80	78	95	36	130	30	83					
WH	DO	2M	32	60		60	18.9														
WH	DO	2M	40	51		51	16.1						26	25		43	17				
WH	DO	3M	30	4		4	1.4				4										
WH	DO	3M	32	28	2.7	27	8.5					21	6								
WH	DO	3M	38	5		5	1.7				5										
WH	DO	3M	39	9		9	2.7				9										
WH	DO	3M	40	93	.3	93	29.2					22	41	19	11						
WH	DO	4M	7																		
WH	DO	4M	8																		
WH	DO	4M	9																		
WH	DO	4M	10																		
WH	DO	4M	11																		
WH	DO	4M	13	1		1	.3				1										
WH	DO	4M	14	7		7	2.2				7										
WH	DO	4M	15	5		5	1.5				5										
WH	DO	4M	17	1		1	.4				1										
WH	DO	4M	18	2		2	.7				2										
WH	DO	4M	19	7		7	2.2				7										
WH	DO	4M	21	6		6	1.9				6										
WH	DO	4M	22	2		2	.7				2										
WH	DO	4M	23	4		4	1.3				4										
WH	DO	4M	25	10		10	3.3				10										
WH	DO	4M	28	9		9	2.9				9										
WH	DO	4M	35	5	12.5	4	1.3				4										
WH	DO	4M	36	9		9	2.8				9										
WH	Totals			320		318	12.7				109	63	50	37	43	17					
DL	DO	2M	40	369	.4	368	74.6						29	39	150	70	80				
DL	DO	3M	28	2		2	.4				2										
DL	DO	3M	29	2		2	.5				2										
DL	DO	3M	32	22		22	4.4				7		7	7							
DL	DO	3M	33	2		2	.5				2										
DL	DO	3M	40	52		52	10.6				7	17	19	9							
DL	DO	4M	16	2		2	.3					2									
DL	DO	4M	17	1		1	.2				1										
DL	DO	4M	18	2		2	.4					2									
DL	DO	4M	22	2		2	.3			2											
DL	DO	4M	23	2		2	.4					2									
DL	DO	4M	31	4	25.0	3	.7				3										
DL	DO	4M	32	30		30	6.0				1				9		19				

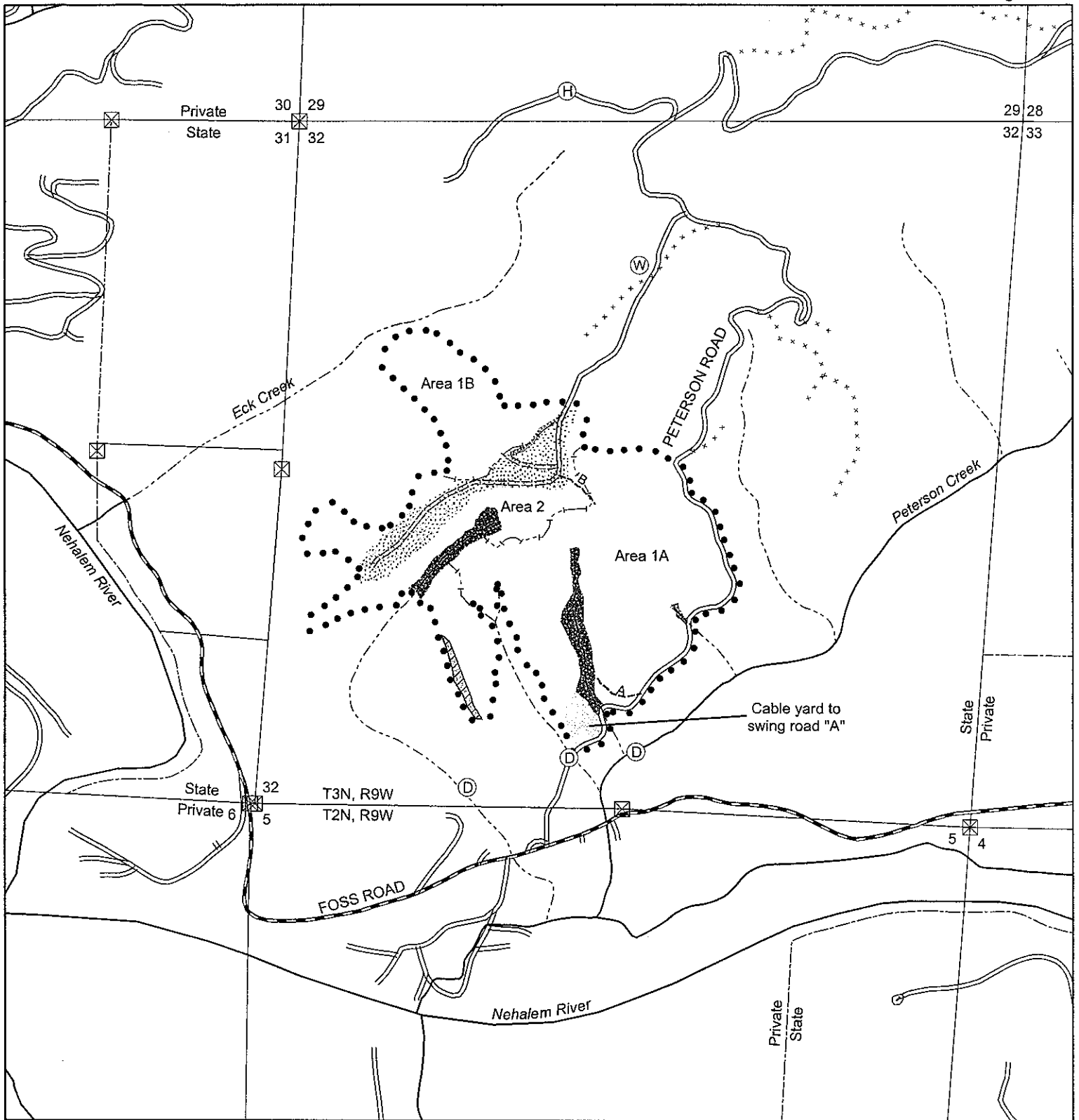
Log Stock Table - MBF

Project: ~~MOOTA~~ *Rock-n-Roy*

T029 R09W S01 TSALE

Twp Rge Sec Tract Type Acres Plots Sample Trees Page
 029 09W 01 AREA 1 AND 2 SALE 98.00 Date 1/28/2008
 Time 2:28:34PM

S Sp	So T	Gr rt	Log de	Len	Gross MBF	% Def	Net MBF	% Sp	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
SL				Totals	10		10	.4				10							
RC	DO	3M	32		8		8	36.3					8						
RC	DO	4M	14		1		1	4.5				1							
RC	DO	4M	22		5		5	21.5				5							
RC	DO	4M	32		8		8	37.6				8							
RC				Totals	21		21	.8				13		8					
SS	DO	3M	32		18		18	84.2					18						
SS	DO	4M	16		3		3	15.8				3							
SS				Totals	22		22	.9				3		18					
Total All Species					2,533		2,513	100.0		85	288	414	258	369	245	484	216	154	



- Landing
- Ⓚ Domestic water supply intake
- Ⓜ Helicopter landing zone
- Ⓦ Waste area
- Ⓣ Truck turn-around
- ⊠ Survey corner
- ▭ Cable yarding
- ▨ Ground yarding
- ▩ Helicopter yarding
- ▧ Downhill yarding
- ▦ Stream Buffer
- ▤ Non-required thinning
- - - Area boundary
- • • Sale boundary
- Ownership boundary
- Perennial Type-F stream
- - - Perennial Type-N stream
- == Unsurfaced road
- == Surfed road
- == State/Federal highway
- County road
- ⓐ Non-project road
- Swing road
- Legacy road
- × × × Blocked road
- ⋯ OHV trail
- ⋯ Non-motorized trail
- Ⓣ Ⓣ Ⓣ Transmission line

LOGGING PLAN
 Timber Sale Contract No. 341-08-71
 Rock-n-Roy
 Portions of Section 32,
 T3N, R9W, W.M.,
 Tillamook County, Oregon

1,000 0 1,000 Feet

Area	Type of Operation	Acres	
		Gross	Net
1	Modified Clearcut	70	66
2	Partial Cut	35	32
Total		105	98

Tillamook District GIS
 03/03/2008
 This product is for informational use and may not have been prepared for, or suitable for legal, engineering, or surveying purposes.