



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Cost Summary New Miami Sale 341-06-42

District: Tillamook

Date: 11/4/05

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$55,217.42	\$37,366.25	\$92,583.67
		Project Work	(\$12,725.00)
		Advertised Value	\$79,858.67



Timber Sale Appraisal Timber Description New Miami Sale 341-06-42

"STEWARDSHIP IN FORESTRY"

District: Tillamook

Location: Portions of Sect. 2; T1N, R10W, W.M., Tillamook County, Oregon

Date: 11/4/05

Stand Stocking: 60%

Species	Avg. DBH	Amortized%	Recovery%
Western Hemlock / Fir	15	0	95
Alder (Red)	14	0	90

Volume by Grade	Western Hemlock / Fir	Alder (Red)	Total
2S	225	0	225
3S	338	0	338
4S	99	0	99
Camprun	0	125	125
Total	662	125	787

Comments: Pond Values Used: 3rd Quarter 2005.

Cedar: $\$815.00/\text{MBF}$ (pond value) - $\$300.19/\text{MBF}$ (logging cost) = $\$514.81/\text{MBF}$
Douglas-fir: $\$620.00/\text{MBF}$ (pond value) - $\$300.19/\text{MBF}$ (logging cost) = $\$319.81/\text{MBF}$

Additional Costs (Profit and Risk to be added)

Brand and Paint - $\$2/\text{MBF} \times 787 \text{ MBF} = \$1,574$

Slash piling and sorting- 37 modified clearcut cable harvest
1 hr/ 50 acres x $\$110/\text{hour} = \81

Tractor Swing - $483 \text{ MBF} \times \$32.86/\text{MBF} = \$15,871$

Yarder Move In and Out of swing landing-
3 hours each way with D7 dozer @ $\$115/\text{hour} = \690

Total Other Costs + P&R = $\$18,216$

Road Maintenance:

Maintenance Rock - for approximately 0.11 miles - pvt property
 $50 \text{ yds}^3 \times \$17.00/\text{yard} / 787 \text{ MBF} = \1.08

Total Maintenance Cost = $\$1.08$



Timber Sale Appraisal

Logging Conditions

New Miami

Sale 341-06-42

"STEWARDSHIP IN FORESTRY"

Combination#: 1 Western Hemlock / Fir 73.00%
 Alder (Red) 73.00%

Yarding Distance: Medium (800 ft) **Downhill Yarding:** No
Logging System: Cable: Medium Tower >40 - <70 **Process:** Manual Delimiting
Tree Size: Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF
Loads/Day: 5 **Bd. Ft./Load:** 3,200
Cost/MBF: \$207.29

Machines:

Log Loader (A)
Tower Yarder (Medium)

Combination#: 2 Western Hemlock / Fir 27.00%
 Alder (Red) 27.00%

Yarding Distance: Medium (800 ft) **Downhill Yarding:** Yes
Logging System: Track Skidder **Process:** Manual Felling/Delimiting
Tree Size: Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF
Loads/Day: 6 **Bd. Ft./Load:** 3,200
Cost/MBF: \$170.08

Machines:

Log Loader (B)
Track Skidder



Timber Sale Appraisal

Logging Costs

New Miami

Sale 341-06-42

"STEWARDSHIP IN FORESTRY"

Date: 11/4/05

Operating Seasons: 1.0

Profit & Risk: 10%

Project Costs: \$12,725

Other Costs (P/R): \$18,216

Slash Disposal: \$0

Other Costs: \$0

Road Maintenance: \$1.08

Miles of Road			
Dirt	Rock (Contractor)	Rock (State)	Paved
0.0	0.0	0.0	0.0

Hauling Costs

Species	\$/MBF	Trips/Day	MBF/Load
Western Hemlock / Fir	\$0.00	3.0	3.2
Alder (Red)	\$0.00	3.0	3.2



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Logging Costs Breakdown New Miami Sale 341-06-42

Costs	Western Hemlock / Fir	Alder (Red)
Logging	197.24	197.24
Road Maintenance	1.14	1.20
Fire Protection	3.44	3.44
Hauling	46.11	48.67
Other (P/R appl.)	23.15	23.15
Profit & Risk	27.11	27.37
Slash Disposal	0.00	0.00
Scaling	2.00	0.00
Other	0.00	0.00
Total	300.19	301.07

Amortization	0.00	0.00
Pond Value	383.60	600.00
Stumpage	83.41	298.93
Amortized	0.00	0.00



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Summary New Miami Sale 341-06-42

Amortized

	Western Hemlock / Fir	Alder (Red)
MBF	0.00	0.00
Value	0.00	0.00
Total	0.00	0.00

Unamortized

	Western Hemlock / Fir	Alder (Red)
MBF	662.00	125.00
Value	83.41	298.93
Total	55,217.42	37,366.25

Gross Timber Sale Value

Recovery \$92,583.67

Prepared by: Amber Winslow

Date: 11/4/05

District: Tillamook

Phone: (503) 842-2545

SUMMARY OF CONSTRUCTION COST

Sale: New Miami Road: A - B

Construction - 0.00 stations miles Improvement - 27+00 stations miles
0.00 miles 0.51 miles

CLEARING AND GRUBBING -

Side cast	0.00	acres @	\$540.00	per acre =	\$0.00	
Scattering	1.90	acres @	\$815.00	per acre =	\$1,548.50	
Piling	0.00	acres @	\$905.00	per acre =	\$0.00	
Endhaul	0.00	acres @	\$1,500.00	per acre =	\$0.00	
TOTAL CLEARING AND GRUBBING						\$1,548.50

EXCAVATION -

	10.25	sta. @	\$30.00	per sta. =	\$307.50	
w/ Endhaul	1987	cys. @	\$2.65	per c.y. =	\$5,265.55	
	0	cys. @	\$0.00	per c.y. =	\$0.00	
	0	cys. @	\$0.00	per c.y. =	\$0.00	
TOTAL EXCAVATION						\$5,573.05

SURFACING-

12" Depth	355	cy. of	Pit Run @	\$9.09	per c.y.=	\$3,226.95
CrvWiden	29	cy. of	Pit Run @	\$9.09	per c.y.=	\$263.61
Trnouts	0	cy. of	Pit Run @	\$9.09	per c.y.=	\$0.00
SmTurnrd	0	cy. of	Pit Run @	\$9.09	per c.y.=	\$0.00
TOTAL SURFACING						\$3,490.56

SPECIAL PROJECTS

Grade & Outslope Road: 27+00 Stations @ \$12.50/Sta.	\$337.50	
Roll Subgrade: \$11/Sta.	\$13.20	
Construct Log Truck Turnaround	\$75.00	
Develop Waste Areas	\$260.00	
Grass Seed, Fertilize Areas of Disturbed Soil: 1.9 Acres @ \$220/ac.	\$418.00	
TOTAL SPECIAL PROJECTS		\$1,103.70

GRAND TOTAL \$11,715.81

PIT RUN PIT DEVELOPMENT AND STRIPPING COST SUMMARY
SALE: NEW MIAMI

Pit:	<u>Miami Foley</u>	Location:	<u>NW1/4 SEC14 T1N R10W</u>
Rock:	<u>PIT RUN</u>	Road:	<u>384 c.y.</u>
Swell:	<u>1.30</u>	Stockpile Size:	<u>c.y.</u>
Shrinkage:	<u>1.16</u>	Total Truck Loads:	<u>384 c.y.</u>
Drill Pct.:	<u>0%</u>	In Place Total:	<u>295 c.y.</u>

Pit Development:					\$200.00
Drill & Shoot:	<u>\$2.50</u>	/cu.yd.	x	<u>0</u>	cu.yds. = \$0.00
Strip Rock:	<u>\$1.90</u>	/cu.yd.	x	<u>295</u>	cu.yds. = \$560.50
Push Rock:	<u>\$0.70</u>	/cu.yd.	x	<u>384</u>	cu.yds. = \$268.80
Load Dump Truck:	<u>\$0.70</u>	/cu.yd.	x	<u>384</u>	cu.yds. = \$268.80
				<u>Sub Total</u>	<u>\$1,298.10</u>

Base Cost- \$3.38 Per Cu.Yd.

Road Segment	Haul Cost /cu.yd.	Proc Cost /cu.yd.	Base Cst. /cu.yd.	Cost /cu.yd.	Number Cu. Yds	ROCK COST
	<u>\$4.96</u>	<u>\$0.75</u>	<u>\$3.38</u>	<u>\$9.09</u>	<u>384</u>	<u>\$3,490.56</u>
	<u>\$0.00</u>	<u>\$0.00</u>	<u>\$0.00</u>	<u>\$0.00</u>	<u>0</u>	<u>\$0.00</u>
				<u>Total C.Y.</u>	<u>384</u>	<u>Sub Total</u>
						<u>\$3,490.56</u>

TOTAL ROCKING COSTS = \$3,490.56



OREGON DEPARTMENT OF FORESTRY

CRUISE REPORT

New Miami

1. **Type of Sale**

Modified clearcut, Recovery

2. **Legal Description**

Section 2, T1N, R10W, WM, Tillamook County, Oregon.

3. **Sale Acreage**

	ACRES		
	<u>Sale</u>	<u>Total</u>	<u>Net</u>
	44	49	37

Sale Acres: Area within the Timber Sale Boundary signs.

Total Acres: Sale acres, plus green tree retention areas outside the timber sale boundary; less roads and riparian areas classified as Special Stewardship in LMCS inside the sale boundary. For accomplishment reporting – clearcut (regeneration) harvest.

Net acres: Used for calculating the advertised volume.

Clearcut - Sale acres, less green tree retention, roads, and riparian areas classified as Special Stewardship in LMCS inside the sale boundary.

Partial Cut - Sale acres minus areas of low stocking, hardwoods, roads, and riparian areas classified as Special Stewardship in LMCS inside the sale boundary.

4. **Cruising Procedures**

A. Cruise Method

A total of 20 variable radius plots were taken across the sale area. Plots were spaced on a grid pattern 264' x 300' apart. All conifers 8 inches DBH and greater and all hardwoods 10 inches DBH and greater were recorded on all plots. Species were recorded on all trees and they were graded and measured for merchantable height, diameter, and form factor. The standard error for the basal area plots was 9.1%.

B. Plot size

A basal area factor of 40 was used. The point of observation was at 4.5 feet.

C. Grading System

All trees were graded according to Columbia River Log Scaling and Grading Rules. Conifer trees were measured to a 6-inch outside bark top and hardwood trees were measured to an 9-inch outside bark top. 40-foot lengths were favored for both species. All heights were measured to the nearest foot. All diameters were measured at a height of 4.5 feet to the nearest 1-inch. Conifers less than 20 board feet and hardwoods less than 30 board feet were not recorded.

5. **Computation Procedure**

Plot data was entered into SuperAce for computation of basal area, stand tables, diameters, and volume to basal area ratio for each species and type. This data was then entered into the Volume Summary Worksheet to compute sale volumes.

6. **Hidden Defect and Breakage**

A 5% deduction was applied to the conifer volume and a 10% deduction was applied to the Alder volume to account for hidden defect and breakage.

7. **Timber Description**

The current stand condition is closed-single canopy. This area was logged in the 1950's and naturally regenerated. The timber is approximately 50 years old and is predominately hemlock and alder.

8. **Cruiser Names/Dates**

Winslow / Wells / Phillips, July and August, 2004.

9. **Revenue Distribution**

FDF: 100%

Tax Code: 56-8

Deed Number: 186

0% - Rehabilitation Obligated

10. **Attachments**

Stand Tables

Volume Summary

Logging Plan

*1 acre across
Take hemlock < 25"
Leave all other conifer*

Stand Table Summary													T01N R10W S02 T+25			
Project NEWMIAMI													T01N R10W S02 T+25			
T01N R10W S02 T+25													Page: 1			
Twp Rge Sec Tract Type Acres Plots Sample Trees													Date: 7/11/2001			
01N 10W 02 NEWM-FINAL +25 37.00 20 115													Time: 9:56:16AM			
S Spc	T	DBH	Sample Trees	FF 16'	Av Ht Tot	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net		Totals			
									Net Cu.Ft.	Net Bd.Ft.	Tons/ Acre	Cu.Ft. Acre	Bd.Ft. Acre	Tons	Cunits	MBF
WH		8	2	81	57	11.319	4.00	11.32	6.7	29.9	2.41	75	338	89	28	13
WH		9	2	85	35	8.955	4.00	8.96	5.8	25.1	1.66	52	224	61	19	8
WH		10	5	85	43	18.905	10.00	18.91	8.5	31.2	5.16	161	590	191	60	22
WH		12	5	89	63	12.789	10.00	12.75	16.6	59.7	6.78	212	761	251	78	28
WH		13	3	88	70	6.479	6.00	8.62	17.0	55.2	4.68	146	476	173	54	18
WH		14	3	90	83	5.645	6.00	9.34	20.2	77.2	6.04	189	720	223	70	27
WH		15	9	86	87	14.811	18.00	26.27	22.5	84.1	18.93	591	2,210	700	218	82
WH		16	6	90	94	8.620	12.00	17.24	24.6	94.5	13.59	424	1,628	503	157	60
WH		17	5	92	72	6.408	10.00	10.22	26.1	104.2	8.53	266	1,065	316	99	39
WH		18	7	88	100	8.004	14.00	16.01	30.4	112.5	15.55	486	1,801	575	180	67
WH		19	3	91	108	3.157	6.00	7.36	32.8	137.2	7.72	241	1,010	286	89	37
WH		20	5	91	112	4.587	10.00	10.13	42.4	184.6	13.73	429	1,870	508	159	69
WH		21	5	91	105	4.151	10.00	9.98	40.2	168.4	12.85	401	1,681	475	149	62
WH		22	2	93	112	1.529	4.00	3.82	46.5	208.0	5.69	178	795	211	66	29
WH		23	7	89	106	4.818	14.00	10.32	50.4	211.4	16.63	520	2,183	615	192	81
WH		24	4	91	106	2.536	8.00	6.33	52.1	226.1	10.53	329	1,430	390	122	53
WH		Totals	73	87	74	122.715	146.00	187.56	25.1	100.1	150.47	4,701	18,782	5,567	1,739	695
RA		10	1	94	36	3.390	2.00	3.39	8.5	40.0	.79	29	136	29	11	5
RA		11	2	94	48	6.117	4.00	6.12	11.0	50.1	1.85	67	306	68	25	11
RA		13	3	94	39	6.893	6.00	6.89	14.0	43.4	2.65	96	299	98	36	11
RA		14	7	93	58	13.470	14.00	17.41	17.5	65.3	8.39	305	1,137	311	113	42
RA		15	7	92	47	11.645	14.00	11.64	23.4	81.0	7.48	272	944	277	101	35
RA		16	1	94	59	1.526	2.00	1.53	31.5	90.0	1.32	48	137	49	18	5
RA		17	2	92	54	2.630	4.00	2.63	31.8	109.5	2.30	84	288	85	31	11
RA		18	2	93	43	2.304	4.00	2.30	32.0	118.8	2.03	74	274	75	27	10
RA		19	1	94	45	1.005	2.00	1.01	37.0	80.0	1.02	37	80	38	14	3
RA		20	2	92	47	1.798	4.00	1.80	43.5	74.9	2.15	78	135	79	29	5
RA		Totals	28	93	49	50.778	56.00	54.72	19.9	68.3	29.99	1,090	3,735	1,110	403	138
WL		25	1	80	104	.601	2.00	1.20	64.9	225.0	2.50	78	270	92	29	10
WL		27	1	92	121	.499	2.00	1.50	64.1	300.0	3.08	96	449	114	36	17
WL		28	2	93	116	.946	4.00	2.84	66.9	272.0	6.06	190	772	224	70	29
WL		30	2	91	130	.812	4.00	2.44	83.8	406.8	6.54	204	992	242	76	37
WL		31	1	92	95	.384	2.00	.77	104.6	415.0	2.57	80	319	95	30	12
WL		32	1	92	104	.363	2.00	.36	73.4	200.0	.85	27	73	32	10	3
WL		33	1	92	116	.341	2.00	.68	50.5	140.0	1.11	34	95	41	13	4
WL		Totals	9	90	114	3.946	18.00	9.79	72.5	303.5	22.71	709	2,970	840	262	110
SS		26	1	90	47	.526	2.00	.53	78.0	110.0	1.07	41	58	40	15	2
SS		48	1	91	93	.159	2.00	.32	243.9	880.0	2.02	78	280	75	29	10
SS		60	1	89	118	.102	2.00	.31	310.3	1283.3	2.46	95	392	91	35	15
SS		63	1	89	140	.092	2.00	.28	404.7	1880.0	2.92	112	521	108	41	19
SS		Totals	4	90	73	.880	8.00	1.43	228.2	876.7	8.47	326	1,251	313	120	46
RC		36	1	81	23	.283	2.00									
RC		Totals	1	81	23	.283	2.00									
Totals			115	89	68	178.602	230.00	253.49	26.9	105.5	211.65	6827	26,739	7,831	2,526	989

Take

Leave

*Leave conifer = 5 trees/acre
28" BA/acre*

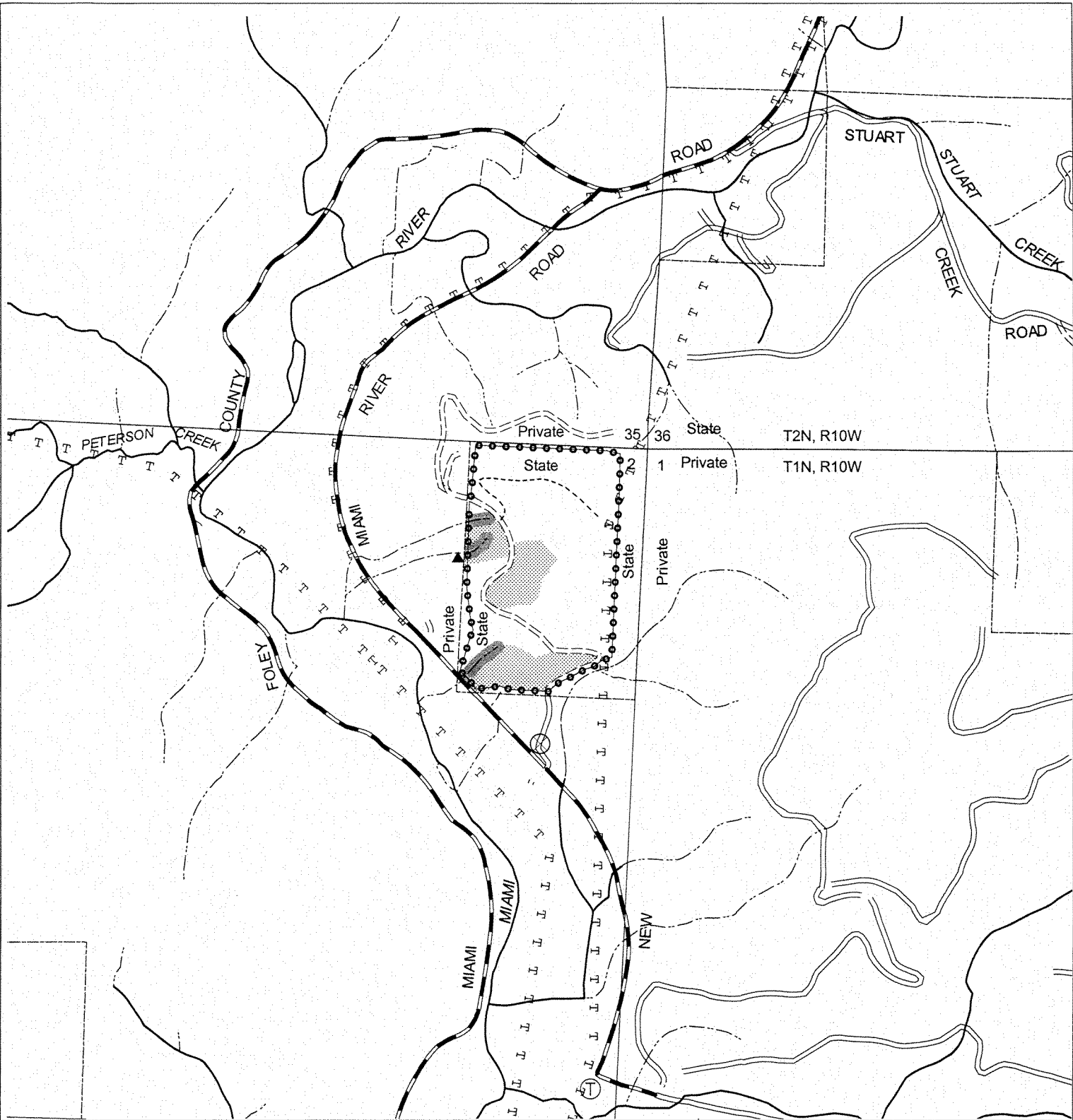


"STEWARDSHIP IN FORESTRY"

New Miami

Volume Summary

Modified Clearcut						
37 acres						
SPECIES	Basal Area		Vol/Acre	Volume	D & B	Net Vol
	Per Acre	V-BAR	MBF	MBF		MBF
Hemlock	146	129	18.8	697	5%	662
Alder	56	67	3.8	139	10%	125
TOTAL				836		787



- Landing
- ▲ Domestic water supply
- ⊗ Blocked
- Ⓣ Turnaround
- ▭ Cable yarding
- ▨ Ground yarding
- ▩ Helicopter yarding
- ▧ Downhill yarding
- ▦ Buffer
- ▨ Non-required thinning
- Area boundary
- .-.-.- Sale boundary
- Ownership boundary
- Perennial Type-F stream
- Perennial Type-N stream
- ==== Surfaced road
- Unsurfaced road
- State highway
- County road
- ⊙ Non-project road
- Swing road
- Abandoned road
- ◇ OHV trail
- Non-motorized trail
- T T Transmission line

LOGGING PLAN
 Timber Sale Contract No. 341-06-42
 New Miami
 Portions of Section 2,
 T1N, R10W, W. M.
 Tillamook County, Oregon

	Type of Area Operation	Acres Sale Net
1	Modified clearcut	44 37



Tillamook District GIS
 7-11-2005
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