



"STEWARDSHIP IN FORESTRY"

# Timber Sale Appraisal Cost Summary Filosi Moss Sale 341-07-24

District: Tillamook

Date: 10/12/06

	Conifer	Hardwood	Total
<b>Gross Timber Sale Value</b>	\$152,846.71	\$69,249.22	\$222,095.93
		<b>Project Work</b>	(\$19,640.00)
		<b>Advertised Value</b>	\$202,455.93



# Timber Sale Appraisal Timber Description Filosi Moss Sale 341-07-24

"STEWARDSHIP IN FORESTRY"

**District:** Tillamook

**Location:** Portions of Sections 13, 14, 23 and 24, T1N, R10W, W.M., Tillamook County, Oregon.

**Date:** 10/12/06

**Stand Stocking:** 60%

Species	Avg. DBH	Amortized%	Recovery%
Douglas - Fir	13	0	95
Western Hemlock / Fir	16	0	95
Alder (Red)	14	0	90

Volume by Grade	Douglas - Fir	Western Hemlock / Fir	Alder (Red)	Total
2S	12	255	0	267
3S	379	824	0	1,203
4S	125	180	0	305
Camprun	0	0	262	262
<b>Total</b>	516	1,259	262	2,037

**Comments:** Pond Values Used: 3rd Quarter Calendar Year 2006.

Western Red Cedar Stumpage Price = Pond Value minus Logging Cost  
\$675/MBF = \$1,000/MBF - \$325/MBF

#### HAULING

Hauling costs adjusted to make equivalent to \$700 daily truck cost.

\$700 - % Profit & Risk ( $\$700 / 1.15$ ) = \$608 Daily Truck Cost.

Hauling Cost Calculation Douglas-fir:

\$608 Daily Truck Cost / (2 trips per day x 3.3 MBF per load) = \$92.12/MBF Hauling Cost.

Hauling Cost Calculation Western Hemlock:

\$608 Daily Truck Cost / (3 trips per day x 3.5 MBF per load) = \$57.91/MBF Hauling Cost.

Hauling Cost Calculation Red Alder:

\$608 Daily Truck Cost / (3 trips per day x 3.0 MBF per load) = \$67.56/MBF Hauling Cost.

#### OTHER COSTS (Profit and Risk to be added):

Brand and Paint - \$2/MBF x 2,037 MBF = \$ 4,074

Slash piling and sorting: 60 acres clearcut cable harvest

1 hour/ 50 acres x \$110/hour = \$ 132

Area 4- Swing- \$26/MBF x 95 MBF = \$2,470

TOTAL OTHER COSTS + (P&R to be added) = \$6,676

#### OTHER COSTS (Profit and Risk Included):

Non-Project Roads :

Non-Project Road #1 5 Stations x \$100 = \$500

Non-Project Road #2 7.5 Stations x \$100 = \$750

Non-Project Swing Road A 4 Stations x \$120 = \$480

Seeding - \$600/acre x 1.9 acre = \$276

Mulching - \$220/acre x 1.9 acre = \$101

Non-Project Road Total = \$2107

#### Road Vacation

Move in = \$500

6 hrs (backhoe) = \$400

Total Road Vacation = \$900

Helicopter landing - 4 hrs machine time @ \$120/hour = \$480

TOTAL OTHER COSTS (P&R Included) = \$ 3,487

#### ROAD MAINTENANCE

Grading (once per 2 MMBF)

Maintenance \$500/Mile x 3 miles x 1 grading / (2,037) = \$0.74

Maintenance rock (Includes move in)

Lower Moss Creek Road, Non-Project Roads #2 & 3, Spur Road in Area 1

$(\$17.50/\text{yard (4")} \times 1.3 \text{ miles} \times 15 \text{ cy/MMBF/mile} \times 2\text{MMBF})/2037 = \$0.34$

Illingsworth Creek Road

$(\$19.00/\text{yard (3/4"-0")} \times 1.7 \text{ miles} \times 25 \text{ cy/MMBF/mile} \times 2\text{MMBF})/2037 = \$0.79$

Vibratory Roller

$\$17.75/\text{sta.} \times 52.8 \text{ sta./mile} \times 1.7 \text{ miles} / (2,037) = \$0.78$

TOTAL MAINTENANCE COST = \$2.65



# Timber Sale Appraisal

## Logging Conditions

### Filosi Moss

### Sale 341-07-24

"STEWARDSHIP IN FORESTRY"

<b>Combination#: 1</b>	Douglas - Fir	44.63%	
	Western Hemlock / Fir	49.43%	
	Alder (Red)	15.87%	
<b>Yarding Distance:</b>	Medium (800 ft)		<b>Downhill Yarding:</b> No
<b>Logging System:</b>	Cable: Medium Tower >40 - <70		<b>Process:</b> Manual Delimiting
<b>Tree Size:</b>	Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF		
<b>Loads/Day:</b>	5		<b>Bd. Ft./Load:</b> 3,400
<b>Cost/MBF:</b>	\$195.09		
<b>Machines:</b>			
	Log Loader (A)		
	Tower Yarder (Medium)		
<b>Combination#: 2</b>	Douglas - Fir	55.37%	
	Western Hemlock / Fir	39.37%	
	Alder (Red)	74.81%	
<b>Yarding Distance:</b>	Long (1,500 ft)		<b>Downhill Yarding:</b> No
<b>Logging System:</b>	Cable: Large Tower >=70		<b>Process:</b> Manual Delimiting
<b>Tree Size:</b>	Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF		
<b>Loads/Day:</b>	5		<b>Bd. Ft./Load:</b> 3,400
<b>Cost/MBF:</b>	\$208.82		
<b>Machines:</b>			
	Log Loader (A)		
	Tower Yarder (Large)		
<b>Combination#: 3</b>	Western Hemlock / Fir	11.20%	
	Alder (Red)	9.32%	
<b>Yarding Distance:</b>	Short (400 ft)		<b>Downhill Yarding:</b> Yes
<b>Logging System:</b>	Track Skidder		<b>Process:</b> Manual Falling/Delimiting
<b>Tree Size:</b>	Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF		
<b>Loads/Day:</b>	6		<b>Bd. Ft./Load:</b> 3,400
<b>Cost/MBF:</b>	\$174.62		
<b>Machines:</b>			
	Log Loader (B)		
	Track Skidder		



# Timber Sale Appraisal

## Logging Costs

### Filosi Moss

### Sale 341-07-24

"STEWARDSHIP IN FORESTRY"

Date: 10/12/06

Operating Seasons: 1.0

Profit & Risk: 15%

Project Costs: \$19,640

Other Costs (P/R): \$6,676

Slash Disposal: \$0

Other Costs: \$3,487

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

Road Maintenance: \$2.65

Hauling Costs
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Species	\$/MBF	Trips/Day	MBF/Load
Douglas - Fir	\$92.12	2.0	3.3
Western Hemlock / Fir	\$57.91	3.0	3.5
Alder (Red)	\$67.56	3.0	3.0



# Timber Sale Appraisal Logging Costs Breakdown Filosi Moss Sale 341-07-24

"STEWARDSHIP IN FORESTRY"

Costs	Douglas - Fir	Western Hemlock / Fir	Alder (Red)
<b>Logging</b>	202.69	198.20	203.45
<b>Road Maintenance</b>	2.79	2.79	2.94
<b>Fire Protection</b>	1.33	1.33	1.33
<b>Hauling</b>	96.97	60.96	75.07
<b>Other (P/R appl.)</b>	3.28	3.28	3.28
<b>Profit &amp; Risk</b>	46.06	39.98	42.91
<b>Slash Disposal</b>	0.00	0.00	0.00
<b>Scaling</b>	2.00	2.00	0.00
<b>Other</b>	1.71	1.71	1.71
<b>Total</b>	356.83	310.25	330.69

<b>Amortization</b>	0.00	0.00	0.00
<b>Pond Value</b>	506.82	370.18	595.00
<b>Stumpage</b>	149.99	59.93	264.31
<b>Amortized</b>	0.00	0.00	0.00



"STEWARDSHIP IN FORESTRY"

# Timber Sale Appraisal Summary Filosi Moss Sale 341-07-24

**Amortized**

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

**Unamortized**

	Douglas - Fir	Western Hemlock / Fir	Alder (Red)
MBF	516.00	1,259.00	262.00
Value	149.99	59.93	264.31
Total	77,394.84	75,451.87	69,249.22

**Gross Timber Sale Value**

**Recovery \$222,095.93**

Prepared by: Amber Winslow

Date: 10/12/06

District: Tillamook

Phone: (503) 842-2545



## PROJECT SUMMARY SHEET

Sale: Filosi Moss

### CONSTRUCTION

SUBTOTAL CONSTRUCTION \$0.00

### IMPROVEMENT

Point	A to B	5+80	stations =	\$2,642.37
Point	C to D	45+60	stations =	\$9,573.20
SUBTOTAL IMPROVEMENT				<u>\$12,215.57</u>

### RECONSTRUCTION

Point	A to B	14+00	stations =	\$6,378.13
SUBTOTAL IMPROVEMENT				<u>\$6,378.13</u>

### SPECIAL PROJECTS

SUBTOTAL SPECIAL PROJECTS \$0.00

### MOVE IN

\$1,044.14

GRAND TOTAL \$19,637.84



## SUMMARY OF CONSTRUCTION COST

Sale:	<u>Filos Moss</u>	Road:	<u>A to B</u>								
Re-Construction -	<table border="0" style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: right;">14+00</td> <td style="text-align: left;">stations</td> </tr> <tr> <td style="text-align: center; border-top: 1px solid black;">0.27</td> <td style="text-align: left;">miles</td> </tr> </table>	14+00	stations	0.27	miles	Improvement -	<table border="0" style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: right;">5+80</td> <td style="text-align: left;">stations</td> </tr> <tr> <td style="text-align: center; border-top: 1px solid black;">0.11</td> <td style="text-align: left;">miles</td> </tr> </table>	5+80	stations	0.11	miles
14+00	stations										
0.27	miles										
5+80	stations										
0.11	miles										
<b>CLEARING AND GRUBBING -</b>											
Widening		0.3 acres @	\$660.00 per acre = \$198.00								
Scattering		1.1 acres @	\$980.00 per acre = \$1,078.00								
Endhaul		0.2 acres @	\$1,500.00 per acre = \$300.00								
			<b>TOTAL CLEARING AND GRUBBING</b>								
			<b>\$1,576.00</b>								
<b>EXCAVATION -</b>											
Road Earthwork (Including Junction Reconstruction @ 0+00)		19.8 sta. @	\$100.00 per sta. = \$1,980.00								
Pullback		120 cy. @	\$1.40 per c.y. = \$168.00								
Widening		278 cy. @	\$1.40 per c.y. = \$389.20								
			<b>TOTAL EXCAVATION</b>								
			<b>\$2,537.20</b>								
<b>ENDHAUL -</b>											
Pullback	12+80 to 13+70	120 cy. @	\$1.83 per c.y. = \$219.60								
Widening	12+40 to 12+80	128 cy. @	\$1.83 per c.y. = \$234.24								
Widening	12+80 to 13+70	150 cy. @	\$1.83 per c.y. = \$274.50								
Spread & compact		398 cy. @	\$0.25 per c.y. = \$99.50								
			<b>TOTAL ENDHAUL</b>								
			<b>\$827.84</b>								
<b>CULVERTS - MATERIALS &amp; INSTALLATION</b>											
	<u>Culverts</u>										
	62 LF of 18"	\$1,054.00									
		\$1,054.00									
	<u>Half Rounds</u>	\$0.00									
	<u>Culvert Stakes &amp; Markers</u>										
	2 markers	\$16.00									
		\$16.00									
			<b>TOTAL CULVERTS</b>								
			<b>\$1,070.00</b>								
<b>ROCK</b>											
0+00 to 2+00 & Junction	120 cy. of	Pit Run	@ \$8.74 per c.y. = \$1,048.80								
0+00 - (Illingsworth/Filos Junction)	30 cy. of	3/4"-0" Crushed	@ \$18.85 per c.y. = \$565.50								
			<b>TOTAL ROCK</b>								
			<b>\$1,614.30</b>								
<b>SPECIAL PROJECTS</b>											
Construct waste area -	1	hour @	\$130.00 per hour = \$130.00								
Grade and shape road -	19.8	stations @	\$15.50 per station = \$306.90								
Roll subgrade w/ dump ruck -	19.8	stations @	\$13.20 per station = \$261.36								
Remove culvert from state lands	1	@	\$122.90 total = \$122.90								
Grass seed and fertilize (including waste area) -	0.70	acres @	\$220.00 per acre = \$154.00								
Mulching -	0.70	acres @	\$600.00 per acre = \$420.00								
			<b>TOTAL SPECIAL PROJECTS</b>								
			<b>\$1,395.16</b>								
<b>GRAND TOTAL</b>			<b>\$9,020.50</b>								

## SUMMARY OF CONSTRUCTION COST

Sale:	<u>Filosi Moss</u>		Road: <u>C to D</u>	
Construction -	<u>0+00</u> stations <u>0.00</u> miles		Improvement -	<u>45+60</u> stations <u>0.86</u> miles
<b>CLEARING AND GRUBBING -</b>				
Endhaul		0.30 acres @	\$1,500.00 per acre =	\$450.00
			TOTAL CLEARING AND GRUBBING	<b>\$450.00</b>
<b>EXCAVATION -</b>				
Pullback		904 cy. @	\$1.40 per c.y. =	\$1,265.60
			TOTAL EXCAVATION	<b>\$1,265.60</b>
<b>ENDHAUL -</b>				
Pullback	5+00 to 5+75	100 cy. @	\$2.65 per c.y. =	\$265.00
Pullback	9+00 to 9+70	94 cy. @	\$2.65 per c.y. =	\$249.10
Pullback	16+30 to 16+60	40 cy. @	\$2.65 per c.y. =	\$106.00
Pullback	23+60 to 23+80	14 cy. @	\$2.65 per c.y. =	\$37.10
Pullback	30+00 to 31+30	87 cy. @	\$2.65 per c.y. =	\$230.55
Pullback	31+90 to 33+10	120 cy. @	\$2.53 per c.y. =	\$303.60
Pullback	33+50 to 33+75	34 cy. @	\$2.57 per c.y. =	\$87.38
Pullback	38+20 to 38+60	67 cy. @	\$2.48 per c.y. =	\$166.16
Pullback	39+90 to 41+00	184 cy. @	\$2.40 per c.y. =	\$441.60
Pullback	41+45 to 42+00	74 cy. @	\$2.34 per c.y. =	\$173.16
Pullback	42+85 to 43+50	65 cy. @	\$2.28 per c.y. =	\$148.20
Pullback	44+20 to 44+45	25 cy. @	\$2.23 per c.y. =	\$55.75
Spread & compact		904 cy. @	\$0.25 per c.y. =	\$226.00
			TOTAL ENDHAUL	<b>\$2,489.60</b>
<b>CULVERTS - MATERIALS &amp; INSTALLATION</b>				
	<u>Culverts</u>		\$0.00	\$0.00
	<u>Half Rounds</u>		\$0.00	\$0.00
	<u>Culvert Stakes &amp; Markers</u>		\$0.00	\$0.00
			TOTAL CULVERTS	<b>\$0.00</b>
<b>ROCK</b>				
Pit Run - Spot Rock	650 cy. of	Pit-Run	@ \$7.88 per c.y. =	\$5,122.00
			TOTAL ROCK	<b>\$5,122.00</b>
<b>SPECIAL PROJECTS</b>				
Grass seed and fertilize -		0.30 acres @	\$220.00 per acre	\$66.00
Mulching -		0.300 acres @	\$600.00 per acre	\$180.00
			TOTAL SPECIAL PROJECTS	<b>\$246.00</b>
<b>GRAND TOTAL</b>				<b>\$9,573.20</b>

## ROCK DEVELOPMENT COST SUMMARY

Pit: <u>Pit Run</u>	Location: <u>As marked on Exhibit A</u>	
Sale: <u>Filosí Moss</u>	Road: <u>740 c.y.</u>	
	Total Truck Loads: <u>740 c.y.</u>	

Pit Development & Cleanup including Clearing and grubbing of Waste Area @ adjacent to pit, place overburden in Waste Area, spread and compact.	\$1,260.00
Rip Rock	\$1,406.00
Load Dump Truck:	\$518.00

Subtotal \$3,184.00

Move in Cat (Within Area)	1	@	\$140.00	=	\$140.00
Move in Excavator (Within Area)	1	@	\$140.00	=	\$140.00
Move in Trucks	2	@	\$51.57	=	\$103.14
					Subtotal <u>\$383.14</u>

TOTAL PRODUCTION COSTS \$3,567.14

Base Cost= \$4.82 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
A to B - 0+00 to 2+00	\$3.02	\$0.90	\$4.82	\$8.74	90	\$786.60
C to D	\$2.16	\$0.90	\$4.82	\$7.88	650	\$5,122.00
				Total C.Y.	740	Sub Total
						\$5,908.60

TOTAL ROCKING COSTS	\$5,908.60
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## Move-In Calculations

Sale: Filosi Moss

LOWBOY HAUL (Round Trip)		
DIST. (mi)	ROADWAY	AVE SPEED (mph)
10.0	Pavement	30
2.0	Main Lines	7
2.0	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	Graders	\$227.14		\$3.65	0.00	0.00	0	\$0.00	\$227.14
0	Rollers (smooth/grid) & Compactors	\$0.00		\$5.00	0.00	0.00	0	\$0.00	\$0.00
0	Excavators (Small)	\$0.00		\$22.00	0.00	0.00	0	\$0.00	\$0.00
0	Excavators (Med.)	\$0.00		\$35.50	0.00	0.00	0	\$0.00	\$0.00
1	Excavators (Large)	\$366.47	1	\$44.80	0.00	0.00	0	\$0.00	\$366.47
0	Tired Backhoes/Skidders	\$0.00		\$3.00	0.00	0.00	0	\$0.00	\$0.00
0	Tractors (D6)	\$0.00	2	\$7.10	0.00	0.00	0	\$0.00	\$0.00
1	Tractors (D7)	\$323.86	2	\$11.30	0.00	0.00	0	\$0.00	\$323.86
0	Tractor (D8)	\$0.00	2	\$15.10	0.00	0.00	0	\$0.00	\$0.00
2	Dump Truck (10 cy +)	\$126.67		\$2.85	0.00	0.00	0	\$0.00	\$126.67
0	Dump Truck (Off Hiway)	\$0.00	1	\$4.75	0.00	0.00	0	\$0.00	\$0.00
0	Water Truck (1500 Gal)	\$0.00		\$2.85	0.00	0.00	0	\$0.00	\$0.00
<b>TOTAL MOVE-IN COSTS:</b>								<b>\$1,044.14</b>	



# OREGON DEPARTMENT OF FORESTRY CRUISE REPORT

## *Filosi Moss*

1. **Type of Sale**

Clear cut/Partial cut, Conifer – Recovery/ Hardwood – Cash

2. **Legal Description**

Sections 13, 14, 23 and 24, T1N, R10W, W.M. Tillamook County, Oregon

3. **Sale Acreage**

	ACRES	
	<u>Sale</u>	<u>Net</u>
Area 1 (Partial Cut)	43	37
Area 2 (Retention Cut)	33	28
Area 3 (Modified Clear Cut)	49	32
Area 4 (Partial Cut)	64	59
<b>Total Acres</b>	<b>189</b>	<b>156</b>

Sale Acres

Area within the Timber Sale Boundary signs.

Net acres

*Used for calculating the advertised volume.*

Sale acres, less green tree retention, roads, utility, right-of-way, and less riparian areas inside the sale boundary.

4. **Cruising Procedures**

**A. Cruise Method**

A total of 64 variable radius plots were taken across the sale area, 15 on Area 1, 12 on Area 2, 12 on Area 3, and 25 on Area 4,. Plots were spaced on a square grid 300 x 300. 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.

**B. Plot size**

A basal area factor of 40 was used in Areas 1, 2, and 4, and a basal area factor of 20 was used in Area 3. The point of observation is 4.5 feet.

### **C. Grading System**

All trees were graded according to Columbia River Log Scaling and Grading Rules. Tree heights were recorded to a 7 inch top outside bark for hemlock, Cedar, Sitka spruce; 6 inch top outside bark for Douglas-fir; 9 inches top outside bark for hardwoods; or three tenths (0.3) of DBH for all species, whichever was greater. Log lengths all favored 40 feet. Height and diameter measurement standards 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 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 and a 10% deduction was applied to the hardwood volume to account for defect and breakage.

#### **7. Timber Description**

A small portion of Area 1 and 2, the top  $\frac{3}{4}$  of Area 3, and approximately half of Area 4 were planted 1969; the remaining portions of the sale areas naturally regenerated.

**Area 1:** Predominately a conifer stand of hemlock with scattered Douglas-fir, spruce, cedar, and alder. The timber is 50-55 years old. The Douglas-fir has moderate symptoms of Swiss needle cast and there is minimal bear damage.

**Area 2:** An alder stand, with scattered conifers. The stand is approximately 35-40 years old with a few scattered older trees in clumps, approximately 60 years old. The Douglas-fir has moderate symptoms of Swiss needle cast and moderate bear damage.

**Area 3:** Predominately a conifer stand of Douglas-fir and hemlock. The majority of the sale area is approximately 35-40 years old with a patch of 50-55 year old conifer at the bottom. The Douglas-fir has moderate to severe symptoms of Swiss needle cast and both the Douglas-fir and hemlock have moderate to severe bear damage.

**Area 4:** Predominately a conifer stand of Douglas-fir and hemlock, with scattered alder. Half the stand is 30-35 years old and the other half is 50-55 years old. The Douglas-fir has moderate to severe symptoms of Swiss needle cast and there is minimal bear damage.

8. **Cruiser Names/Dates**

Phillips/Wells/ /Winslow/Thurman, April 2006

9. **Revenue Distribution**

FDF: 100%

Tax Code: 56-8: 71%, 56: 29%

Deed Numbers: 186, 495

0% Rehabilitation Obligated

10. **Attachments**

Stand Table

Volume Summaries

Logging Plan

### Stand Table Summary

TC TSTNDSUM

Project **F MOSS**

**T01N R10W S23 T100A**

Area 1

**T01N R10W S23 T100A**

Page: **1**  
Date: **05/03/201**  
Time: **2:32:48PM**

Twp Rge Sec Tract Type Acres Plots Sample Trees  
**01N 10W 23 FILOSIMOSS 100A 37.00 15 107**

Spc	S T	DBH	Sample Trees	Av		Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals		
				FF 16'	Ht Tot				Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF
WL		13	1	87	48	1.447	1.33	1.45	16.2	50.0	.56	23	72	21	9	3
WL		19	2	88	138	2.709	5.33	6.77	35.0	154.0	5.69	237	1,043	210	88	39
WL		20	1	87	123	1.222	2.67	3.67	29.4	116.7	2.58	108	428	96	40	16
WL		21	1	87	126	1.109	2.67	3.33	34.0	143.3	2.71	113	477	100	42	18
WL		22	2	80	74	2.020	5.33	3.00	31.2	116.7	2.25	94	350	83	35	13
WL		24	2	88	123	1.748	5.33	4.38	49.6	225.7	5.22	217	989	193	80	37
WL		26	4	89	128	2.928	10.67	7.35	55.2	258.5	9.74	406	1,901	360	150	70
WL		27	2	87	120	1.006	4.00	2.35	58.3	244.3	3.29	137	573	122	51	21
WL		28	2	89	82	1.270	5.33	2.54	53.0	202.5	3.23	135	514	119	50	19
WL		29	2	81	121	1.196	5.33	2.39	56.2	250.7	3.23	134	600	119	50	22
WL		30	2	88	158	1.072	5.33	3.76	71.9	378.6	6.48	270	1,424	240	100	53
WL		31	2	89	130	1.018	5.33	2.04	75.4	372.5	3.68	153	758	136	57	28
WL		33	1	89	130	.449	2.67	1.35	88.6	433.3	2.86	119	584	106	44	22
WL		34	4	88	131	1.687	10.67	2.10	102.5	520.7	5.17	215	1,093	191	80	40
WL		36	3	88	112	1.147	8.00	2.29	112.0	556.7	6.15	256	1,274	228	95	47
WL		37	2	90	143	.714	5.33	1.79	105.8	518.0	4.54	189	925	168	70	34
WL		38	3	84	157	1.019	8.00	2.72	85.1	450.2	5.55	231	1,224	205	86	45
WL		39	2	90	112	.651	5.33	.33	149.0	720.0	1.17	49	235	43	18	9
WL		40	3	90	144	.917	8.00	2.14	138.4	700.0	7.11	296	1,497	263	110	55
WL		41	3	87	95	.582	5.33	.44	60.3	196.7	.63	26	86	23	10	3
WL		42	2	87	150	.549	5.33	1.38	115.9	530.7	3.83	159	730	142	59	27
WL		43	2	86	105	.397	4.00									
WL		44	1	88	143	.253	2.67	.76	171.2	800.0	3.11	130	606	115	48	22
WL		45	3	87	119	.483	5.33	.85	152.6	782.9	3.09	129	662	114	48	24
WL		47	2	88	160	.447	5.33	1.34	161.1	911.3	5.19	216	1,223	192	80	45
WL		50	2	88	142	.391	5.33	.20	311.0	1470.0	1.46	61	287	54	23	11
WL		52	1	87	132	.090	1.33									
WL	Totals	57	87	120		28.521	141.33	60.68	67.6	322.3	98.51	4,104	19,556	3,645	1,519	724
WH		14	2	81	56	5.172	5.33	5.17	17.5	49.9	2.89	90	258	107	33	10
WH		15	2	85	70	3.148	4.00	5.21	19.9	65.8	3.31	103	343	122	38	13
WH		16	2	88	84	2.913	4.00	4.87	26.2	102.2	4.08	128	498	151	47	18
WH		17	3	89	112	5.017	8.00	9.98	32.3	140.2	10.31	322	1,398	381	119	52
WH		18	1	93	58	1.509	2.67									
WH		20	1	91	144	1.186	2.67	3.56	38.8	176.7	4.42	138	629	164	51	23
WH		21	1	94	76	1.130	2.67	2.26	37.2	135.0	2.69	84	305	100	31	11
WH		22	1	94	89	1.010	2.67	2.02	48.2	150.0	3.11	97	303	115	36	11
WH		23	2	90	121	1.890	5.33	4.75	51.3	237.1	7.78	243	1,125	288	90	42
WH		24	3	89	106	2.512	8.00	5.82	52.6	253.0	9.80	306	1,473	362	113	55
WH		26	1	92	129	.702	2.67	2.10	64.1	343.3	4.32	135	723	160	50	27
WH		28	2	93	108	1.270	5.33	2.52	76.8	363.0	6.18	193	914	229	72	34
WH		29	1	88	145	.602	2.67	1.81	78.4	416.7	4.53	142	752	168	52	28
WH		32	3	92	120	1.435	8.00	3.35	93.4	489.9	10.01	313	1,642	370	116	61
WH		34	1	93	122	.433	2.67	.87	110.0	490.0	3.05	95	424	113	35	16
WH	Totals	26	88	93		29.931	66.67	54.28	44.0	198.7	76.50	2,391	10,788	2,830	885	399
OA		12	1	79	96	3.395	2.67	3.40	25.4	90.0	2.50	86	306	93	32	11
OA		13	1	79	58	3.031	2.67	3.03	17.8	50.0	1.56	54	152	58	20	6
OA		15	1	79	114	2.116	2.67	4.23	23.2	90.0	2.85	98	381	105	36	14
OA		16	1	80	53	1.818	2.67	1.82	32.7	70.0	1.73	59	127	64	22	5
OA		17	1	79	87	1.732	2.67	1.73	46.3	150.0	2.32	80	260	86	30	10
OA		18	2	80	82	2.298	4.00	4.60	26.1	88.2	3.47	120	405	128	44	15
OA		20	1	81	81	.611	1.33	1.22	36.4	115.0	1.29	45	141	48	16	5

Red Alder Take



Stand Table Summary

Project F MOSS

T01N R10W S23 T100A

T01N R10W S23 T100A

Page: 2

Twp Rge Sec Tract  
01N 10W 23 FILOSIMOSS

Type  
100A

Acres  
37.00

Plots  
15

Sample Trees  
107

Date: 05/03/201

Time: 2:32:48PM

RA take

Leave

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
DA		21	1	80	76	1.109	2.67	2.22	34.3	110.0	2.21	76	244	82	28	9
DA		Totals	9	79	81	16.110	21.33	22.24	27.8	90.6	17.93	619	2,015	663	229	75
DF		22	1	88	118	1.010	2.67	2.02	53.0	240.0	3.05	107	485	113	40	18
DF		25	1	88	118	.795	2.67	2.38	46.9	220.0	3.19	112	525	118	41	19
DF		35	1	87	153	.404	2.67	1.21	116.8	640.0	4.03	141	775	149	52	29
DF		Totals	3	88	124	2.209	8.00	5.62	64.2	317.8	10.27	360	1,785	380	133	66
RA		16	1	80	62	1.934	2.67	1.93	17.2	50.0	.91	33	97	34	12	4
RA		18	1	79	100	1.509	2.67	3.02	31.8	110.0	2.64	96	332	98	36	12
RA		19	1	79	96	1.383	2.67	2.77	34.0	110.0	2.58	94	304	96	35	11
RA		21	2	81	78	1.109	2.67	2.22	38.8	115.0	2.37	86	255	88	32	9
RA		22	1	80	44	1.029	2.67	1.03	50.8	70.0	1.44	52	72	53	19	3
RA		23	2	80	68	1.890	5.33	2.86	51.2	142.8	4.02	146	408	149	54	15
RA		Totals	8	80	75	8.854	18.67	13.82	36.7	106.2	13.97	508	1,468	517	188	54
SS		15	1	80	66	2.263	2.67	2.26	30.0	70.0	1.76	68	158	65	25	6
SS		Totals	1	80	66	2.263	2.67	2.26	30.0	70.0	1.76	68	158	65	25	6
RC		13	1	80	48	2.893	2.67	2.89	17.3	40.0	1.18	50	116	44	19	4
RC		21	1	75	73	1.088	2.67									
RC		77	1	80	147	.082	2.67									
RC		Totals	3	79	57	4.063	8.00	2.89	17.3	40.0	1.18	50	116	44	19	4
Totals			107	85	96	91.951	266.67	161.81	50.1	221.8	220.11	8100	35,886	8,144	2,997	1,328

Stand Table Summary																
TC TSTNDSUM																
Project F MOSS																
T01N R10W S13 T0200										T01N R10W S13 T0200						
Area 2										Page: 1						
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Date:	05/03/201	Time:	2:55:58PM					
01N	10W	13	FILOSIMOSS	0200	28.00	12	68									
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
WH		9	1	83	42	8.074	3.33	8.07	5.5	20.0	1.41	44	161	39	12	5
WH		10	2	88	40	12.883	6.67	6.77	6.4	20.0	1.38	43	135	39	12	4
WH		11	1	82	134	4.872	3.33	9.74	12.2	50.0	3.79	119	487	106	33	14
WH		12	2	82	105	8.504	6.67	12.97	16.9	63.1	7.01	219	819	196	61	23
WH		15	2	84	88	5.291	6.67	10.51	21.2	74.9	7.10	222	787	199	62	22
WH		17	3	89	110	6.223	10.00	16.55	25.2	108.8	13.36	417	1,801	374	117	50
WH		20	1	84	86	1.498	3.33	3.00	36.1	105.0	3.48	108	315	97	30	9
WH		21	2	93	134	2.825	6.67	8.48	41.1	203.3	11.15	348	1,723	312	98	48
WH		24	1	93	160	1.097	3.33	3.29	59.6	303.3	6.28	196	999	176	55	28
WH		25	1	77	100	.970	3.33	1.94	34.1	130.0	2.11	66	252	59	19	7
WH		26	2	85	104	1.823	6.67	2.76	89.7	330.3	7.91	247	910	222	69	25
WH		28	2	88	125	1.588	6.67	3.18	79.1	298.4	8.03	251	948	225	70	27
WH	Totals		20	86	85	55.649	66.67	87.26	26.1	107.0	73.03	2,282	9,338	2,045	639	261
RA		11	1	79	64	4.872	3.33	4.87	16.3	50.0	2.19	79	244	61	22	7
RA		12	7	77	51	31.220	23.33	31.22	13.8	44.0	11.85	432	1,374	332	121	38
RA		13	1	80	30	3.508	3.33	3.51	12.1	40.0	1.16	42	140	33	12	4
RA		14	3	79	84	9.695	10.00	12.68	22.2	77.6	7.76	282	985	217	79	28
RA		15	3	80	86	8.237	10.00	11.14	24.5	79.2	7.51	273	883	210	76	25
RA		16	5	80	82	11.975	16.67	16.81	29.0	89.7	13.41	488	1,508	375	137	42
RA		17	2	79	106	4.463	6.67	8.93	25.7	92.5	6.31	229	826	177	64	23
RA		18	1	79	61	1.865	3.33	1.87	46.4	90.0	2.38	86	168	67	24	5
RA		21	2	80	75	2.772	6.67	4.17	40.2	106.8	4.63	168	445	130	47	12
RA		22	2	79	77	2.596	6.67	5.19	38.3	127.8	5.46	199	664	153	56	19
RA		23	1	80	68	1.145	3.33	2.29	37.6	135.0	2.37	86	309	66	24	9
RA	Totals		28	79	68	82.348	93.33	102.68	23.0	73.5	65.01	2,365	7,546	1,820	662	211
WL		30	3	87	135	2.042	10.00	4.77	75.5	362.9	8.63	360	1,730	242	101	48
WL		31	1	89	166	.636	3.33	4.45	41.1	230.0	4.39	183	1,024	123	51	29
WL		32	2	80	131	1.194	6.67	2.98	75.2	310.0	5.38	224	925	151	63	26
WL		42	2	83	162	.693	6.67	2.08	122.0	696.7	6.09	254	1,448	170	71	41
WL		47	1	77	143	.277	3.33	.55	120.9	660.0	1.61	67	365	45	19	10
WL		49	1	75	152	.255	3.33	.76	114.8	563.3	2.11	88	430	59	25	12
WL		55	1	90	184	.202	3.33	.81	255.4	1430.0	4.96	206	1,156	139	58	32
WL	Totals		11	84	144	5.298	36.67	16.41	84.2	431.4	33.16	1,382	7,078	928	387	198
SS		12	1	79	38	4.106	3.33	4.11	12.3	30.0	1.31	50	123	37	14	3
SS		27	1	81	87	.838	3.33	.84	92.7	340.0	2.02	78	285	57	22	8
SS		42	1	83	134	.346	3.33	.69	162.1	915.0	2.92	112	634	82	31	18
SS		44	1	83	136	.316	3.33	.32	281.5	1640.0	2.31	89	518	65	25	14
SS	Totals		4	80	57	5.607	13.33	5.95	55.3	262.0	8.56	329	1,560	240	92	44
DF		9	1	80	30	7.716	3.33									
DF		10	1	80	70	6.772	3.33	6.77	9.8	40.0	1.90	67	271	53	19	8
DF		14	1	88	85	3.353	3.33	6.71	15.1	55.0	2.89	102	369	81	28	10
DF		18	1	88	123	1.865	3.33	3.73	35.0	115.0	3.72	131	429	104	37	12
DF	Totals		4	82	62	19.706	13.33	17.21	17.4	62.1	8.51	299	1,069	238	84	30
RC		36	1	64	77	.464	3.33	.93	118.7	185.0	2.59	110	172	73	31	5
RC	Totals		1	64	77	.464	3.33	.93	118.7	185.0	2.59	110	172	73	31	5
Totals			68	81	75	169.071	226.67	230.44	29.4	116.1	190.86	6766	26,762	5,344	1,895	749

Stand Table Summary

Project F MOSS

Area 3

T01N R10W S24 T0300

T01N R10W S24 T0300

Twp Rge Sec Tract Type Acres Plots Sample Trees  
 01N 10W 24 FILOSIMOSS 0300 32.00 12 78

Page: 1  
 Date: 07/19/201  
 Time: 10:14:28AM

S Spc	T	DBH	Sample Trees	Av		Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals		
				FF 16'	Ht Tot				Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF
DF		10	1	85	61	3.056	1.67	3.06	10.4	40.0	.91	32	122	29	10	4
DF		11	3	84	61	8.371	5.70	8.37	14.1	45.4	3.34	118	380	107	38	12
DF		12	4	82	58	9.187	7.48	9.19	16.8	47.3	4.42	154	435	141	49	14
DF		13	7	84	61	12.639	11.67	12.64	19.8	52.9	7.08	250	669	227	80	21
DF		14	7	84	69	11.545	12.31	16.76	17.4	56.8	8.33	292	952	267	93	30
DF		15	6	83	77	10.010	12.15	16.47	21.2	64.4	9.95	349	1,062	318	112	34
DF		16	7	81	78	9.185	12.60	16.46	21.8	64.2	10.19	358	1,057	326	115	34
DF		17	4	83	83	4.766	7.25	8.01	26.8	83.3	6.13	215	668	196	69	21
DF		18	3	83	85	3.202	5.70	6.40	27.0	92.5	4.93	173	592	158	55	19
DF		19	1	88	87	.829	1.67	1.66	32.4	115.0	1.53	54	191	49	17	6
DF	Totals		43	83	69	72.790	78.18	99.02	20.1	61.9	56.81	1,994	6,127	1,818	638	196
WH		11	1	59	36	2.720	1.67									
WH		13	1	85	83	1.808	1.67	1.81	25.4	90.0	1.47	46	163	47	15	5
WH		14	2	86	75	3.118	3.33	3.12	17.5	55.0	1.74	54	171	56	17	5
WH		15	3	85	68	4.674	5.64	6.03	22.1	63.2	4.27	133	381	137	43	12
WH		16	2	86	73	2.329	3.33	3.49	24.8	86.7	2.77	86	303	89	28	10
WH		17	5	86	80	5.325	8.33	9.59	24.9	83.2	7.64	239	798	244	76	26
WH		18	1	86	83	1.192	2.20	2.38	31.2	105.0	2.38	74	250	76	24	8
WH		19	5	85	82	4.253	8.33	7.66	28.4	104.0	6.95	217	796	222	70	25
WH		20	3	87	75	2.323	5.00	3.88	33.1	102.2	4.11	128	397	132	41	13
WH		21	2	82	69	1.797	4.27	2.49	33.2	92.3	2.64	83	230	85	26	7
WH		22	2	85	124	1.280	3.33	3.21	40.8	161.6	4.19	131	519	134	42	17
WH		23	1	84	87	.588	1.67	.59	59.9	280.0	1.13	35	165	36	11	5
WH	Totals		28	83	75	31.406	48.78	44.26	27.8	94.3	39.28	1,228	4,173	1,257	393	134
WL		30	1	89	161	.337	1.67	1.01	71.9	403.3	1.75	73	408	56	23	13
WL		37	1	91	162	.228	1.67	.68	132.4	776.7	2.17	91	532	70	29	17
WL		38	1	89	151	.212	1.67	.63	106.8	630.0	1.63	68	400	52	22	13
WL	Totals		3	90	159	.777	5.00	2.33	99.1	574.7	5.55	231	1,340	177	74	43
RC		33	1	80	119	.274	1.67	.82	86.7	370.0	1.67	71	304	54	23	10
RC	Totals		1	80	119	.274	1.67	.82	86.7	370.0	1.67	71	304	54	23	10
RA		10	1	79	26	3.056	1.67	3.06	6.3	20.0	.53	19	61	17	6	2
RA		11	1	80	31	2.525	1.67	2.53	8.3	30.0	.58	21	76	19	7	2
RA		17	1	80	39	1.122	1.67	1.12	23.6	50.0	.73	26	56	23	8	2
RA	Totals		3	80	30	6.704	5.00	6.70	10.0	28.8	1.84	67	193	59	21	6
Totals			78	83	69	111.951	138.63	153.14	23.5	79.3	105.15	3592	12,137	3,365	1,149	388

Stand Table Summary

Project F MOSS

T01N R10W S23 T400

*Area 4*

T01N R10W S23 T400

Twp Rge Sec Tract  
01N 10W 23 FILOSIMOSS

Type Acres Plots Sample Trees  
400 59.00 25 137

Page: 1  
Date: 5/3/2006  
Time: 4:35:35PM

S Spc	T	Sample			Av			Average Log		Net			Totals			
		DBH	Trees	16'	FF	Ht	Tot	Trees/ Acre	BA/ Acre	Logs Acre	Net Cu.Ft.	Net Bd.Ft.	Tons/ Acre	Net Cu.Ft.	Net Bd.Ft.	Tons
WH		9	3	89	50	10.563	4.80	10.56	7.1	30.0	2.40	75	317	142	44	19
WH		10	1	90	67	2.820	1.60	2.82	11.5	60.0	1.04	32	169	61	19	10
WH		11	6	89	81	14.298	9.60	16.55	13.9	58.7	7.44	231	971	439	136	57
WH		12	4	87	85	8.268	6.40	12.49	12.1	50.0	4.85	151	624	286	89	37
WH		13	4	92	105	6.873	6.40	13.75	17.3	78.6	7.56	238	1,080	446	141	64
WH		14	4	91	88	6.081	6.40	10.60	19.9	81.0	6.74	211	859	398	125	51
WH		15	6	89	108	7.898	9.60	18.37	20.1	85.9	11.82	369	1,578	697	217	93
WH		16	6	87	89	6.869	9.60	12.53	24.9	91.8	9.99	312	1,151	590	184	68
WH		17	2	91	116	2.007	3.20	4.01	33.7	134.6	4.33	135	540	256	80	32
WH		18	3	88	96	2.769	4.80	5.54	31.2	119.4	5.53	173	661	326	102	39
WH		19	2	91	109	1.617	3.20	3.23	38.5	167.4	3.98	124	541	235	73	32
WH		21	1	86	107	.678	1.60	1.36	48.1	180.0	2.09	65	244	123	38	14
WH		22	1	86	95	.617	1.60	1.23	45.5	170.0	1.80	56	210	106	33	12
WH	Totals		43	89	86	71.359	68.80	113.05	19.2	79.1	69.59	2,173	8,946	4,106	1,282	528
WL		17	3	86	93	3.094	4.80	5.16	28.0	105.9	3.47	145	547	205	85	32
WL		18	10	87	94	9.046	16.00	17.19	26.8	98.4	11.06	460	1,692	652	271	100
WL		19	7	86	99	5.681	11.20	11.36	33.4	122.6	9.15	380	1,392	540	224	82
WL		20	3	86	101	2.254	4.80	5.27	31.4	108.4	3.98	166	572	235	98	34
WL		21	4	85	93	2.701	6.40	6.09	33.1	114.9	4.85	202	700	286	119	41
WL		22	5	87	94	3.060	8.00	5.51	43.1	158.7	5.71	237	875	337	140	52
WL		23	3	86	102	1.688	4.80	3.38	48.8	181.9	3.95	165	614	233	97	36
WL		24	2	88	65	1.062	3.20	1.59	47.3	140.0	1.81	75	223	107	44	13
WL		26	3	86	90	1.296	4.80	2.59	58.5	206.3	3.64	152	535	215	89	32
WL		29	2	89	102	.715	3.20	1.43	58.1	155.8	1.99	83	223	117	49	13
WL		31	1	88	118	.301	1.60	.90	69.8	326.7	1.51	63	295	89	37	17
WL		32	1	80	120	.292	1.60	.29	86.0	470.0	.60	25	137	36	15	8
WL		37	1	90	111	.214	1.60	.21	202.0	1040.0	1.04	43	223	61	26	13
WL	Totals		45	86	95	31.405	72.00	60.99	36.0	131.6	52.75	2,195	8,028	3,112	1,295	474
DF		10	3	79	45	8.782	4.80	8.35	7.7	29.9	1.82	64	249	108	38	15
DF		11	5	81	67	12.243	8.00	14.58	12.3	42.6	5.09	179	621	300	105	37
DF		12	5	81	60	10.171	8.00	14.46	12.0	35.4	4.93	173	511	291	102	30
DF		13	6	83	67	10.422	9.60	13.95	15.2	51.0	6.06	213	712	358	125	42
DF		14	4	83	81	6.038	6.40	9.14	18.8	61.7	4.89	172	564	289	101	33
DF		15	2	84	56	2.613	3.20	3.85	17.2	55.7	1.89	66	214	112	39	13
DF		16	5	86	74	5.779	8.00	8.15	25.5	83.4	5.92	208	679	349	123	40
DF		17	3	87	77	3.073	4.80	6.15	21.5	74.6	3.77	132	458	222	78	27
DF		18	4	85	91	3.717	6.40	7.43	28.9	105.8	6.12	215	787	361	127	46
DF		19	2	85	70	1.670	3.20	2.48	32.5	90.2	2.30	81	224	136	48	13
DF		20	1	86	60	.712	1.60	.71	42.0	110.0	.85	30	78	50	18	5
DF		32	1	88	128	.283	1.60	.57	103.9	540.0	1.68	59	306	99	35	18
DF	Totals		41	82	67	65.503	65.60	89.82	17.7	60.2	45.32	1,590	5,404	2,674	938	319
RA		9	1	80	36	3.392	1.60	3.39	6.1	20.0	.57	21	68	33	12	4
RA		10	1	79	21	2.820	1.60	2.82	5.9	20.0	.46	17	56	27	10	3
RA		11	1	80	36	2.562	1.60	2.56	7.7	30.0	.54	20	77	32	12	5
RA		12	2	79	74	4.008	3.20	4.01	22.8	75.1	2.52	91	301	149	54	18
RA		13	1	80	36	1.877	1.60	1.88	10.8	40.0	.56	20	75	33	12	4
RA		18	1	80	57	.936	1.60	.94	35.8	110.0	.92	34	103	54	20	6
RA		19	1	80	37	.779	1.60	.78	20.6	30.0	.44	16	23	26	9	1
RA	Totals		8	80	44	16.375	12.80	16.38	13.3	43.0	6.01	218	704	355	129	42

*Leave*

TC TSTNDSUM

**Stand Table Summary**

**Project F MOSS**

**T01N R10W S23 T400**

**T01N R10W S23 T400**

**Twp Rge Sec Tract Type Acres Plots Sample Trees**  
**01N 10W 23 FILOSIMOSS 400 59.00 25 137**

**Page: 2**  
**Date: 5/3/2006**  
**Time: 4:35:35PM**

S Spc T	Sample DBH	FF Trees	Av Ht 16' Tot	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals		
							Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF
Totals	137	85	77	184.64	219.20	280.23	22.0	82.4	173.67	6176	23,082	10,247	3,644	1,362



"STEWARDSHIP IN FORESTRY"

## Filosi Moss

### Volume Summary

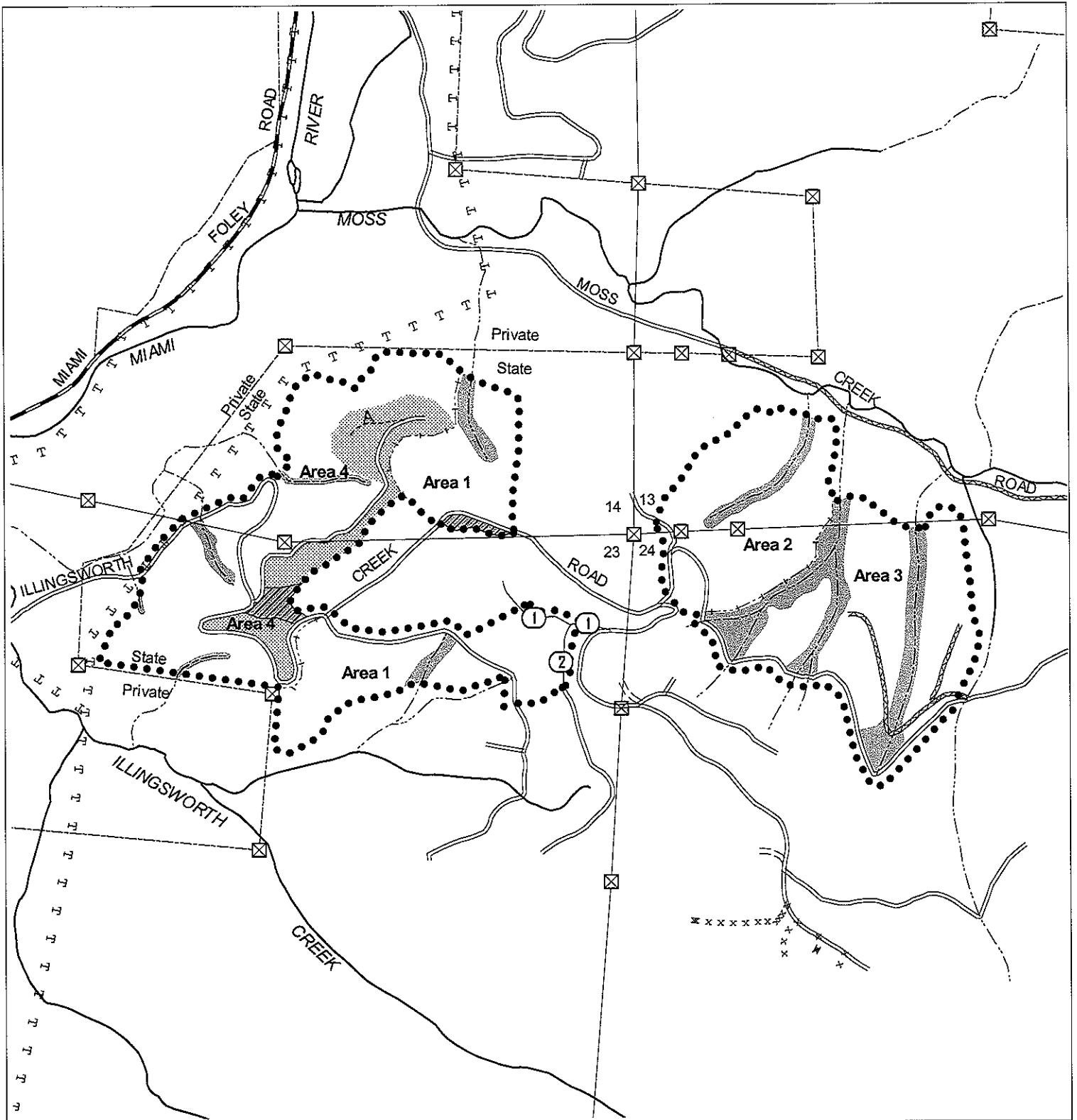
Area 1						
37 acres						
SPECIES	Basal Area Per Acre	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Hemlock	67	162	10.9	402	5%	382
Alder	21	95	2.0	74	10%	66
<b>TOTAL</b>				475		448

Area 2						
28 acres						
SPECIES	Basal Area Per Acre	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	13	80	1.0	29	5%	28
Hemlock	67	140	9.4	263	5%	250
Alder	93	81	7.5	211	10%	190
<b>TOTAL</b>				503		467

Area 3						
32 acres						
SPECIES	Basal Area Per Acre	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	78	78	6.1	195	5%	185
Hemlock	49	84	4.1	132	5%	125
Alder	5	39	0.2	6	10%	6
<b>TOTAL</b>				333		316

Area 4						
59 acres						
SPECIES	Basal Area Per Acre	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	66	82	5.4	319	5%	303
Hemlock	69	130	9.0	529	5%	503
<b>TOTAL</b>				849		806

TOTAL SALE VOLUME				Acres		156
SPECIES	Gross Vol. (MBF)		Net Vol. (MBF)			
Douglas-fir	543	MBF	516	MBF		
Hemlock	1325	MBF	1259	MBF		
Alder	291	MBF	262	MBF		
<b>TOTAL</b>	2159	MBF	<b>2037</b>	MBF		



- Landing
- ⊙ Domestic water supply intake
- ⊕ Helicopter landing zone
- ⊙ Truck turn-around
- ⊗ Survey corner
- 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/Federal highway
- County road
- ② Non-project road
- - A - - Swing road
- ▬ Legacy road
- xxx Blocked road
- ⋯ OHV trail
- ⋯ Non-motorized trail
- T T Transmission line

### LOGGING PLAN

Timber Sale Contract No. 341-07-24  
 Filosi Moss  
 Portions of Sections 13, 14, 23,  
 and 24, T1N, R10W, W. M.  
 Tillamook County, Oregon

Area	Type of Operation	Acres Gross	Net
1	Partial cut	43	37
2	Retention cut	33	28
3	Modified clearcut	49	32
4	Partial cut	64	59
Total Acres		189	156



Tillamook District GIS  
 5-24-2006

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

