



"STEWARDSHIP IN FORESTRY"

# Timber Sale Appraisal Cost Summary East Foley Peak Sale 341-05-63

District: Tillamook

Date: 4/6/05

	Conifer	Hardwood	Total
<b>Gross Timber Sale Value</b>	\$178,821.17	\$0.00	\$178,821.17
		<b>Project Work</b>	(\$7,366.00)
		<b>Advertised Value</b>	\$171,455.17



# Timber Sale Appraisal Timber Description East Foley Peak Sale 341-05-63

"STEWARDSHIP IN FORESTRY"

**District:** Tillamook

**Location:** Portions of Section 8, 16, 17, 20, and 21, T2N, R9W, W.M., Tillamook County, Oregon.

**Date:** 4/6/05

**Stand Stocking:** 20%

Species	Avg. DBH	Amortized%	Recovery%
Douglas - Fir	11	0	95
Western Hemlock / Fir	12	0	95

Volume by Grade	Douglas - Fir	Western Hemlock / Fir	Total
2S	0	82	82
3S	196	510	706
4S	219	391	610
<b>Total</b>	415	983	1,398

**Comments:** Pond Values Used: 1st Quarter 2005.

Alder Stumpage =  $\$620.00 - \$352.46 = \$267.54$

Cedar Stumpage =  $\$865.00 - \$352.46 = \$512.54$

ADDITIONAL COSTS (Profit and Risk to be added)

Brand and Paint -  $\$2/\text{MBF} \times 1,398\text{MBF} = \$ 2,796$

Slash piling and sorting: 131 acres retention and modified clearcut cable harvest  
1 hr/ 50 acres x  $\$110/\text{hour} = \$ 288$

TOTAL OTHER COSTS + (P/R) =  $\$3084$

#### ROAD MAINTENANCE

Grading at final maintenance

Maintenance  $\$500/\text{Mile} \times 10.4 \text{ miles} / (1,394) = \$3.73$

Maintenance Rock - approximately 25cu. yds./MMBF/Mile

$25 \text{ cu. yds.} \times 10.4 \text{ miles} \times \$4.98/\text{yard} \times 1.398 / (1398) = \$1.30$

TOTAL MAINTENANCE COST =  $\$5.03$



# Timber Sale Appraisal

## Logging Conditions

### East Foley Peak

### Sale 341-05-63

"STEWARDSHIP IN FORESTRY"

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<b>Combination#:</b> 1	Douglas - Fir	62.40%	
	Western Hemlock / Fir	65.89%	
<b>Yarding Distance:</b>	Long (1,500 ft)		<b>Downhill Yarding:</b> No
<b>Logging System:</b>	Cable: Medium Tower >40 - <70		<b>Process:</b> Stroke Delimber
<b>Tree Size:</b>	Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF		
<b>Loads/Day:</b>	4		<b>Bd. Ft./Load:</b> 3,100
<b>Cost/MBF:</b>	\$264.73		
<b>Machines:</b>			
	Log Loader (A)		
	Stroke Delimber (A)		
	Tower Yarder (Medium)		
<b>Combination#:</b> 2	Douglas - Fir	15.57%	
	Western Hemlock / Fir	16.46%	
<b>Yarding Distance:</b>	Short (400 ft)		<b>Downhill Yarding:</b> Yes
<b>Logging System:</b>	Shovel		<b>Process:</b> Manual Delimiting
<b>Tree Size:</b>	Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF		
<b>Loads/Day:</b>	5		<b>Bd. Ft./Load:</b> 3,100
<b>Cost/MBF:</b>	\$149.78		
<b>Machines:</b>			
	Shovel Logger		
<b>Combination#:</b> 3	Douglas - Fir	22.02%	
	Western Hemlock / Fir	17.65%	
<b>Yarding Distance:</b>	Short (400 ft)		<b>Downhill Yarding:</b> No
<b>Logging System:</b>	Cable: Small Tower <=40		<b>Process:</b> Stroke Delimber
<b>Tree Size:</b>	Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF		
<b>Loads/Day:</b>	4		<b>Bd. Ft./Load:</b> 3,100
<b>Cost/MBF:</b>	\$203.28		
<b>Machines:</b>			
	Log Loader (A)		
	Stroke Delimber (A)		
	Tower Yarder (Small)		



# Timber Sale Appraisal Logging Costs East Foley Peak Sale 341-05-63

"STEWARDSHIP IN FORESTRY"

Date: 4/6/05

Operating Seasons: 2.0

Profit & Risk: 20%

Project Costs: \$7,366

Other Costs (P/R): \$0

Slash Disposal: \$0

Other Costs: \$3,084

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

Road Maintenance: \$5.03

### Hauling Costs

Species	\$/MBF	Trips/Day	MBF/Load
Douglas - Fir	\$0.00	2.0	3.1
Western Hemlock / Fir	\$0.00	4.0	3.1



"STEWARDSHIP IN FORESTRY"

# Timber Sale Appraisal Logging Costs Breakdown East Foley Peak Sale 341-05-63

Costs	Douglas - Fir	Western Hemlock / Fir
<b>Logging</b>	233.29	234.96
<b>Road Maintenance</b>	5.29	5.29
<b>Fire Protection</b>	3.88	3.88
<b>Hauling</b>	69.16	34.58
<b>Other (P/R appl.)</b>	0.00	0.00
<b>Profit &amp; Risk</b>	62.32	55.74
<b>Slash Disposal</b>	0.00	0.00
<b>Scaling</b>	2.00	2.00
<b>Other</b>	2.21	2.21
<b>Total</b>	378.15	338.66

<b>Amortization</b>	0.00	0.00
<b>Pond Value</b>	600.98	426.50
<b>Stumpage</b>	222.83	87.84
<b>Amortized</b>	0.00	0.00



"STEWARDSHIP IN FORESTRY"

# Timber Sale Appraisal Summary East Foley Peak Sale 341-05-63

## Amortized

	Douglas - Fir	Western Hemlock / Fir
MBF	0.00	0.00
Value	0.00	0.00
Total	0.00	0.00

## Unamortized

	Douglas - Fir	Western Hemlock / Fir
MBF	415.00	983.00
Value	222.83	87.84
Total	92,474.45	86,346.72

## Gross Timber Sale Value

**Recovery \$178,821.17**

Prepared by: Jacob Phillips

Date: 4/6/05

District: Tillamook

Phone: (503) 842-2545



# PROJECT SUMMARY SHEET

Sale: East Foley Peak

## CONSTRUCTION

**SUBTOTAL CONSTRUCTION** \$0.00

## IMPROVEMENT

Point	A to B	89+50	stations =	\$2,948.60
Point	C to D	6+00	stations =	\$3,432.96
<b>SUBTOTAL IMPROVEMENT</b>				<u>\$6,381.56</u>

## SPECIAL PROJECTS

**SUBTOTAL SPECIAL PROJECTS** \$0.00

## MOVE IN

**\$984.44**

**GRAND TOTAL** **\$7,366.00**



## SUMMARY OF CONSTRUCTION COST

Sale:	<u>East Foley Peak</u>		Road:	<u>A to B</u>
Construction -	<u>0+00</u> stations <u>0.00</u> miles		Improvement -	<u>89+50</u> stations <u>1.70</u> miles
CLEARING AND GRUBBING -			TOTAL CLEARING AND GRUBBING	<b>\$0.00</b>
EXCAVATION -			TOTAL EXCAVATION	<b>\$0.00</b>
ENDHAUL -			TOTAL ENDHAUL	<b>\$0.00</b>
CULVERTS - MATERIALS & INSTALLATION				
	<u>Culverts</u>			
	56 LF of 18"	\$896.00	0 LF of 24"	\$0.00
	0 LF of 30"	\$0.00	0 LF of 36"	\$0.00
	0 LF of 42"	\$0.00	0 LF of 48"	\$0.00
	0 LF of 54"	\$0.00	0 LF of 60"	\$0.00
	0 LF of 66"	\$0.00	0 LF of 72"	\$0.00
		<u>\$896.00</u>		<u>\$0.00</u>
	<u>Half Rounds</u>			
	40 LF of 21"	\$711.20	0 LF of 30"	\$0.00
	0 LF of 36"	\$0.00	0 LF of 42"	\$0.00
		<u>\$711.20</u>		<u>\$0.00</u>
	<u>Culvert Stakes &amp; Markers</u>			
	4 stakes	\$32.00		
	2 markers	\$16.00		
		<u>\$48.00</u>		
			TOTAL CULVERTS	<b>\$1,655.20</b>
ROCK				
spot rock	200 cy. of	Crushed	@ \$4.98 per c.y.=	<u>\$996.00</u>
			TOTAL ROCK	<b>\$996.00</b>
SPECIAL PROJECTS				
Remove culverts from state lands	3.00	@	\$215.40 total	\$215.40
Grass seed and fertilize -	0.10	acres @	\$220.00 per acre	\$22.00
Mulching -	0.10	acres @	\$600.00 per acre	\$60.00
			TOTAL SPECIAL PROJECTS	<b>\$297.40</b>
			<b>GRAND TOTAL</b>	<b><u>\$2,948.60</u></b>

## SUMMARY OF CONSTRUCTION COST

Sale:	<u>East Foley Peak</u>		Road:	<u>C to D</u>
Construction -	<u>0+00</u> stations <u>0.00</u> miles		Improvement -	<u>6+00</u> stations <u>0.11</u> miles
CLEARING AND GRUBBING - Scattering		0.41 acres @	\$815.00 per acre =	<u>\$334.15</u>
			TOTAL CLEARING AND GRUBBING	<b>\$334.15</b>
EXCAVATION - Road Earthwork		6.00 sta. @	\$50.00 per sta. =	<u>\$300.00</u>
			TOTAL EXCAVATION	<b>\$300.00</b>
ROCK 0+00 to 6+00	393 cy. of	Pit-Run	@ \$6.57 per c.y. =	<u>\$2,582.01</u>
			TOTAL ROCK	<b>\$2,582.01</b>
SPECIAL PROJECTS				
Grade and shape road -		6.00 stations @	\$17.20 per station	\$103.20
Grass seed and fertilize -		0.14 acres @	\$220.00 per acre	\$30.80
Mulching -		0.138 acres @	\$600.00 per acre	\$82.80
			TOTAL SPECIAL PROJECTS	<b>\$216.80</b>
			<b>GRAND TOTAL</b>	<b><span style="border: 1px solid black; padding: 2px;">\$3,432.96</span></b>

## ROCK DEVELOPMENT COST SUMMARY

Pit:	Pit-Run	Location:	T2N, R9W, W. M.
Sale:	<b>East Foley Peak</b>	Road:	393 c.y.
Swell:	1.30	Stockpile:	c.y.
Shrinkage	1.16	Total Truck Loads:	393 c.y.
Drill Pct.:	0%	In Place Total:	302 c.y.

Pit Development & Cleanup including Clearing and grubbing of Waste Area @ adjacent to pit, place overburden in Waste Area, spread and compact.	\$274.15
Rip Rock	\$1.75 /cu.yd. x 302 cu.yds. = \$528.50
Load Dump Truck:	\$0.60 /cu.yd. x 393 cu.yds. = \$235.80
Subtotal	\$1,038.45

Move in Excavator	1	@	\$460.00	=	\$460.00
Move in Trucks	2	@	\$100.14	=	\$200.28
Subtotal					\$660.28

TOTAL PRODUCTION COSTS \$1,698.73

Base Cost=           \$4.32           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 - Crushed From Stockpile	\$2.88	\$0.90	\$1.20	\$4.98	200	\$996.00
C to D	\$1.35	\$0.90	\$4.32	\$6.57	393	\$2,582.01
Sub Total						\$3,578.01

	<b>TOTAL ROCKING COSTS \$3,578.01</b>
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**OREGON DEPARTMENT OF FORESTRY**  
**CRUISE REPORT**  
*East Foley Peak*

**1. Type of Sale**

Partial cut, Recovery

**2. Legal Description**

Sections 8, 16, 17, 20, and 21, T2N, R9W, WM, Tillamook County, Oregon.

**3. Sale Acreage**

How the acreage was determined

	<b>ACRES</b>	
	<u>Sale</u>	<u>Net</u>
<b>Area 1 (Partial Cut)</b>	39	30
<b>Area 2 (Partial Cut)</b>	18	17
<b>Area 3 (Partial Cut)</b>	4	3
<b>Area 4 (Partial Cut)</b>	5	4
<b>Area 5 (Partial Cut)</b>	<u>100</u>	<u>77</u>
<b>Total</b>	166	131

Sale Acres

Area within the Timber Sale Boundary signs

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 less 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 87 variable radius plots were taken across the sale area. Plots were spaced on a square grid pattern in Areas 1, 2, 3, 4, and 5. Plots in Area 1 were spaced on a grid 250' x 300' apart, Area 2 plots were spaced 300' x 300' apart, Area 3 plots were spaced 100' x 225' apart, Area 4 plots were spaced 200' x 100' apart, Area 5 plots were spaced 200' x 300' apart. 17 plots were taken in Area 1, 9 in Area 2, 5 in Area 3, 5 in Area 4, and 51 in Area 5. 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 all sale areas. 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 top and hardwood trees were measured to an 8-inch top, both favoring 40-foot lengths. 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 volume to account for the defect and breakage.

### **7. Timber Description**

Large portions of the sale area burned in the 1933 Salmonberry fire. The entire sale area was naturally regenerated and is a mixed stand of Douglas-fir and hemlock with scattered Sitka spruce. The Douglas-fir has low to moderate Swiss needle cast symptoms. These areas have had no prior stand management. These are dense stands with poor height-diameter ratios in trees less than 14 inches DBH.

### **8. Cruiser Names/Dates**

Phillips, Winslow, Wells, Wilson / December 2004

### **9. Revenue Distribution**

100% FDF

Tax Codes: 56: 96% and 56-1: 4%

Deed Numbers: 52, 140, 144, 164

0% Rehabilitation Obligated

### **10. Attachments**

Stand Table

Volume Summaries

Logging Plan

Area 1

TC TSTNDSUM		Stand Table Summary													
Project EASTFP															
T02N R09W S17 T100										T02N R09W S17 T100					
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page:	1						
02N	09W	17	EASTFP15-140	100	31.00	17	122	Date:	2/7/2005						
								Time:	12:41:07PM						
S Spec	T	Av			Average Log			Net		Net		Totals			
		Sample DBH	FF Trees	Ht 16'	Trees/BA/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	89	43	6.416	2.35	6.42	4.8	30.0	.99	31	192	31	10	6
WH	9	2	91	28	10.772	4.71	10.77	4.9	20.0	1.67	52	215	52	16	7
WH	10	3	88	53	12.782	7.06	12.78	9.6	33.4	3.93	123	427	122	38	13
WH	11	4	89	66	14.075	9.41	21.27	11.2	45.1	7.57	238	958	235	74	30
WH	12	5	92	79	14.988	11.76	26.82	12.1	52.2	10.38	324	1,401	322	100	43
WH	13	6	90	86	15.742	14.12	31.48	14.9	62.2	14.99	469	1,957	465	145	61
WH	14	5	90	81	10.917	11.76	19.69	17.7	68.7	11.16	348	1,353	346	108	42
WH	15	8	86	87	15.429	18.82	25.13	24.1	90.9	19.43	607	2,285	602	188	71
WH	17	4	90	111	6.049	9.41	15.11	25.7	107.7	12.44	389	1,628	385	120	50
WH	18	1	93	120	1.393	2.35	4.18	26.3	116.7	3.52	110	487	109	34	15
WH	21	1	86	125	.978	2.35	2.93	37.3	166.7	3.50	109	489	109	34	15
WH	22	3	87	123	2.682	7.06	8.05	38.4	171.1	9.89	309	1,377	307	96	43
WH	23	2	86	120	1.704	4.71	4.26	44.9	190.0	6.12	191	810	190	59	25
WH	24	1	87	130	.731	2.35	1.46	68.2	280.0	3.20	100	409	99	31	13
WH	29	1	87	122	.503	2.35	1.01	96.1	440.0	3.09	97	442	96	30	14
WH	Totals	47	89	75	115.160	110.59	191.37	18.3	75.4	111.86	3,497	14,430	3,468	1,084	447
WL	16	2	89	87	3.435	4.71	6.87	22.9	87.5	5.06	157	601	157	49	19
WL	17	3	91	84	4.698	7.06	9.40	24.5	98.3	7.37	230	923	228	71	29
WL	18	6	88	89	8.127	14.12	13.62	31.2	115.6	13.61	425	1,574	422	132	49
WL	19	7	90	106	8.308	16.47	16.59	37.9	152.9	20.10	628	2,536	623	195	79
WL	20	1	92	95	1.037	2.35	2.07	37.9	170.0	2.52	79	352	78	24	11
WL	21	6	89	114	6.014	14.12	14.99	40.6	167.8	19.45	608	2,516	603	189	78
WL	22	3	93	121	2.690	7.06	8.07	41.9	192.1	10.82	338	1,551	335	105	48
WL	23	2	86	130	1.640	4.71	4.92	43.9	177.8	6.90	216	875	214	67	27
WL	25	3	93	111	2.055	7.06	4.78	66.3	307.1	10.15	317	1,469	315	98	46
WL	26	1	86	122	.633	2.35	1.27	76.6	300.0	3.11	97	380	96	30	12
WL	32	1	86	135	.421	2.35	1.26	77.7	346.7	3.14	98	438	97	30	14
WL	41	1	87	135	.257	2.35	.77	137.3	690.0	3.44	106	531	107	33	16
WL	Totals	36	90	102	39.315	84.71	84.62	39.0	162.5	105.67	3,300	13,747	3,276	1,023	426
DF	9	1	86	77	5.446	2.35	5.45	7.0	30.0	1.13	38	163	35	12	5
DF	10	2	87	81	8.638	4.71	8.64	11.9	44.4	2.94	103	384	91	32	12
DF	11	5	85	75	17.924	11.76	17.92	13.1	42.0	6.68	235	753	207	73	23
DF	12	6	87	77	17.712	14.12	26.32	12.6	46.2	9.44	332	1,216	293	103	38
DF	13	3	87	82	7.752	7.06	12.83	13.3	47.7	4.87	171	612	151	53	19
DF	14	1	87	105	2.265	2.35	4.53	20.0	90.0	2.58	91	408	80	28	13
DF	15	1	88	81	1.943	2.35	3.89	18.5	70.0	2.06	72	272	64	22	8
DF	18	1	89	118	1.362	2.35	2.72	34.1	135.0	2.65	93	368	82	29	11
DF	20	1	87	140	1.100	2.35	3.30	29.1	116.7	2.74	96	385	85	30	12
DF	Totals	21	86	81	64.144	49.41	85.60	14.4	53.3	35.09	1,231	4,561	1,088	382	141
SS	14	1	91	37	2.170	2.35	2.17	15.9	30.0	.90	34	65	28	11	2
SS	16	1	90	53	1.796	2.35	1.80	28.5	60.0	1.33	51	108	41	16	3
SS	17	2	90	83	3.075	4.71	4.60	30.8	86.7	3.70	142	399	115	44	12
SS	21	1	89	87	.997	2.35	1.00	65.0	290.0	1.69	65	289	52	20	9
SS	24	2	87	59	1.530	4.71	1.52	52.7	200.0	2.09	80	305	65	25	9
SS	25	1	85	87	.674	2.35	1.35	50.8	160.0	1.78	68	216	55	21	7
SS	26	2	87	78	1.312	4.71	2.62	50.0	212.4	3.41	131	557	106	41	17
SS	Totals	10	89	67	11.553	23.53	15.06	38.0	128.7	14.89	572	1,938	462	177	60
DL	16	1	88	96	1.685	2.35	3.37	23.1	90.0	2.16	78	303	67	24	9
DL	17	1	88	96	1.566	2.35	3.13	27.7	110.0	2.39	87	344	74	27	11

TC TSTNDSUM

**Stand Table Summary**

Project **EASTFP**

**T02N R09W S17 T100**

**T02N R09W S17 T100**

Twp Rge Sec Tract Type Acres Plots Sample Trees  
**02N 09W 17 EASTFP15-140 100 31.00 17 122**

Page: **2**  
 Date: **2/7/2005**  
 Time: **12:41:07PM**

S Spc	T	Sample			Av FF 16'	Ht Tot	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals			
		DBH	Trees							Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF	
DL		18	1	88	88	1.331	2.35	2.66	27.7	100.0	2.02	74	266	63	23	8		
DL		29	1	87	145	.517	2.35	1.55	71.0	350.0	3.03	110	542	94	34	17		
DL		Totals			4	88	99	5.099	9.41	10.71	32.5	135.9	9.59	348	1,456	297	108	45
RA		12	2	94	32	5.992	4.71	5.99	10.6	40.0	1.75	63	240	54	20	7		
RA		14	1	94	56	2.139	2.35	2.14	22.9	80.0	1.35	49	171	42	15	5		
RA		16	1	94	57	1.685	2.35	1.69	31.5	90.0	1.46	53	152	45	16	5		
RA		Totals			4	94	42	9.816	9.41	9.82	16.9	57.3	4.55	166	562	141	51	17
Totals		122	89	79		245.088	287.06	397.17	22.9	92.4	281.66	9114	36,695	8,731	2,825	1,138		

*Leave Conifer 117.65ft<sup>2</sup> BA  
 54 tpa*

Area 2

TC TSTNDSUM														Stand Table Summary				
Project EASTFP																		
T02N R09W S17 T0200											T02N R09W S17 T0200							
Twp Rge Sec Tract											Page: 1							
02N 09W 17 EASTFPPRESCR											Date: 1/10/2001							
Type											Time: 9:44:59AM							
Acres											Plots							
16.00											9							
Sample Trees											53							
S Spc	T	DBH	Sample Trees	FF 16'	Av Ht Tot	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net Cu.Ft.	Net Cu.Ft.	Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals		
									Net Cu.Ft.	Net Bd.Ft.						Tons	Cunits	MBF
WH		8	1	91	46	12.732	4.44	12.73	5.0	30.0	2.06	64	382	33	10	6		
WH		9	1	86	99	9.628	4.44	19.26	9.1	50.0	5.62	176	963	90	28	15		
WH		10	4	89	85	32.691	17.78	32.69	13.8	60.0	14.40	450	1,961	230	72	31		
WH		11	2	88	59	13.116	8.89	13.12	12.9	45.4	5.43	170	596	87	27	10		
WH		12	3	87	77	17.623	13.33	17.62	19.3	70.0	10.88	340	1,234	174	54	20		
WH		13	2	86	85	9.650	8.89	19.30	13.9	52.3	8.56	267	1,009	137	43	16		
WH		14	3	88	83	12.969	13.33	21.53	18.7	66.3	12.86	402	1,427	206	64	23		
WH		16	3	86	97	9.963	13.33	19.93	23.8	91.6	15.16	474	1,826	243	76	29		
WH		17	1	86	90	2.820	4.44	5.64	25.3	90.0	4.57	143	508	73	23	8		
WH	Totals		20	88	79	121.192		161.82	15.4	61.2	79.53	2,485	9,904	1,273	398	158		
WL		16	2	85	84	6.415	8.89	12.83	21.5	77.2	8.81	275	990	141	44	16		
WL		17	3	85	92	8.468	13.33	16.94	25.3	93.0	13.70	428	1,575	219	68	25		
WL		18	4	88	94	10.095	17.78	20.19	28.5	103.8	18.39	575	2,095	294	92	34		
WL		19	2	85	84	4.446	8.89	8.89	29.4	97.4	8.37	262	866	134	42	14		
WL		20	1	91	96	2.143	4.44	4.29	36.4	145.0	4.99	156	621	80	25	10		
WL		21	3	86	103	5.440	13.33	10.88	45.2	151.8	15.71	492	1,651	251	79	26		
WL		22	1	86	103	1.653	4.44	3.31	48.2	165.0	5.10	160	546	82	26	9		
WL	Totals		16	86	93	38.661	71.11	77.32	30.4	107.9	75.07	2,347	8,346	1,201	375	134		
DF		10	2	86	61	16.166	8.89	16.17	11.5	40.0	5.29	186	647	85	30	10		
DF		11	3	86	69	20.648	13.33	20.65	14.3	40.0	8.43	296	826	135	47	13		
DF		12	1	87	76	5.852	4.44	5.85	18.5	70.0	3.09	109	410	49	17	7		
DF		13	1	85	88	4.748	4.44	9.50	12.1	40.0	3.29	115	380	53	18	6		
DF		14	2	85	79	8.558	8.89	8.56	23.8	70.0	5.80	204	599	93	33	10		
DF		15	1	85	85	3.720	4.44	3.72	28.4	90.0	3.01	106	335	48	17	5		
DF	Totals		10	86	71	59.692		64.44	15.7	49.6	28.91	1,014	3,196	463	162	51		
RA		10	2	94	46	16.633	8.89	8.15	9.1	40.0	2.04	74	326	33	12	5		
RA		11	1	93	82	6.986	4.44	6.99	17.9	90.0	3.44	125	629	55	20	10		
RA		13	2	94	56	9.739	8.89	9.74	17.8	67.8	4.85	173	661	78	28	11		
RA	Totals		5	94	56	33.359	22.22	24.87	15.0	64.9	10.33	373	1,615	165	60	26		
DL		15	1	85	87	3.527	4.44	7.05	17.7	70.0	3.44	125	494	55	20	8		
DL		16	1	88	68	3.264	4.44	3.26	31.7	110.0	2.85	104	359	46	17	6		
DL	Totals		2	86	78	6.791	8.89	10.32	22.1	82.7	6.28	228	853	101	37	14		
Totals			53	88	76	259.695	235.56	338.77	19.0	70.6	200.12	6447	23,914	3,202	1,032	383		

Conifer leave  
tpa 80ft<sup>2</sup>  
45.452



Area 3

TC TSTNDSUM		Stand Table Summary														
Project EASTFP											T02N R09W S17 T0300					
T02N R09W S17 T0300											T02N R09W S17 T0300					
Twp Rge Sec Tract		Type		Acres		Plots		Sample Trees			Page: 1					
02N 09W 17 EASTFP14_120		0300		4.00		5		39			Date: 2/24/2001					
											Time: 10:33:49AM					
S SpC	T	Av			Trees/ Acres	BA/ Acres	Logs Acres	Average Log		Net Tons/ Acres	Net Cu.Ft. Acres	Net Bd.Ft. Acres	Totals			
		Sample DBH	FF Trees	Ht 16'				Tot	Net Cu.Ft.				Net Bd.Ft.	Tons	Cunits	MBF
WH		8	3	91	55	67.128	24.00	67.13	6.1	30.0	13.14	410	2,014	53	16	8
WH		10	5	91	70	77.148	40.00	77.15	12.0	47.6	29.67	927	3,673	119	37	15
WH		11	3	91	66	35.531	24.00	35.53	15.2	57.1	17.24	539	2,027	69	22	8
WH		12	2	88	68	21.806	16.00	32.52	12.4	43.3	12.94	404	1,408	52	16	6
WH		13	4	89	78	34.242	32.00	60.32	15.1	59.7	29.21	913	3,603	117	37	14
WH		14	2	90	56	14.348	16.00	14.35	25.3	64.9	11.58	364	932	46	15	4
WH		18	1	91	52	4.527	8.00	4.53	36.9	70.0	5.34	167	317	21	7	1
WH	Totals	20	90	66		254.730	160.00	291.52	12.8	47.9	119.12	3,724	13,974	476	149	56
WL		14	2	92	66	14.861	16.00	22.34	17.5	70.0	12.51	391	1,564	50	16	6
WL		15	3	89	84	19.928	24.00	39.86	17.7	72.9	22.63	707	2,907	91	28	12
WL		16	1	92	81	6.105	8.00	12.21	21.6	85.0	8.46	264	1,038	34	11	4
WL		20	2	91	84	7.524	16.00	15.05	36.8	117.4	17.70	554	1,767	71	22	7
WL		21	1	92	111	3.264	8.00	6.53	49.9	225.0	10.41	325	1,469	42	13	6
WL	Totals	9	91	80		51.683	72.00	95.99	23.4	91.1	71.71	2,242	8,745	287	90	35
DF		10	1	91	58	15.273	8.00	15.27	10.4	40.0	4.53	159	611	18	6	2
DF		11	2	90	50	22.573	16.00	22.57	11.2	40.0	7.18	252	903	29	10	4
DF		13	2	91	65	17.371	16.00	17.37	20.3	64.8	10.06	353	1,126	40	14	5
DF		14	1	91	85	7.702	8.00	15.40	16.7	65.0	7.38	257	1,001	30	10	4
DF	Totals	6	91	61		62.918	48.00	70.62	14.5	51.6	29.16	1,021	3,641	117	41	15
DL		14	1	91	68	7.274	8.00	7.27	25.4	90.0	5.08	185	655	20	7	3
DL		16	1	90	68	5.951	8.00	5.95	28.4	90.0	4.64	169	536	19	7	2
DL		19	1	86	105	4.021	8.00	8.04	34.7	120.0	7.68	279	965	31	11	4
DL		20	1	86	92	3.741	8.00	7.48	29.7	100.0	6.11	222	748	24	9	3
DL	Totals	4	89	79		20.987	32.00	28.75	29.7	101.0	23.51	855	2,903	94	34	12
Totals		39	90	67		390.317	312.00	486.87	16.1	60.1	243.51	7843	29,264	974	314	117

conifer leave 104 ft<sup>2</sup>

tpa 72.67

Area 4

TC TSTNDSUM													Stand Table Summary							
Project EASTFP																				
T02N R09W S17 T0400										T02N R09W S17 T0400										
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page:												
02N	09W	17	EASTFP14	0400	4.00	5	26	1	Date:	1/7/2005										
									Time:	3:38:20PM										
Spc	T	DBH	Trees	FF	Ht	Av	16'	Tot	Trees/	BA/	Logs	Average Log		Net	Net	Net	Net	Totals		
												Acres	Acres					Acres	Cu.Ft.	Bd.Ft.
WH		11	2	89	75	25.176	16.00	50.35	25.176	16.00	50.35	9.3	37.2	15.00	469	1,874		60	19	7
WH		12	6	88	85	63.160	48.00	115.42	63.160	48.00	115.42	12.5	48.5	46.09	1,443	5,603		184	58	22
WH		13	1	85	77	8.292	8.00	16.58	8.292	8.00	16.58	14.5	60.0	7.63	240	995		31	10	4
WH	Totals	9	88	81		96.628		182.36	96.628		182.36	11.8	46.5	68.72	2,152	8,472		275	86	34
WL		15	3	90	81	19.332	24.00	38.66	19.332	24.00	38.66	19.8	67.8	24.76	767	2,621		99	31	10
WL		16	1	85	95	5.521	8.00	11.04	5.521	8.00	11.04	23.5	90.0	8.31	260	994		33	10	4
WL		17	1	86	101	4.901	8.00	9.80	4.901	8.00	9.80	28.9	100.0	9.01	283	980		36	11	4
WL		19	1	85	95	4.240	8.00	8.48	4.240	8.00	8.48	33.4	120.0	9.05	283	1,018		36	11	4
WL		20	1	85	92	3.667	8.00	7.33	3.667	8.00	7.33	36.1	115.0	8.46	264	843		34	11	3
WL		22	1	87	107	3.031	8.00	6.06	3.031	8.00	6.06	49.1	175.0	9.52	298	1,061		38	12	4
WL	Totals	8	88	90		40.690	64.00	81.38	40.690	64.00	81.38	26.5	92.4	69.12	2,155	7,517		276	86	30
DF		9	2	90	24	35.847	16.00	35.85	35.847	16.00	35.85	4.5	20.0	4.59	161	717		18	6	3
DF		12	3	87	78	31.453	24.00	62.91	31.453	24.00	62.91	10.0	40.2	17.98	631	2,530		72	25	10
DF		13	1	83	88	8.952	8.00	17.90	8.952	8.00	17.90	12.2	50.0	6.24	219	895		25	9	4
DF		14	1	67	92	7.930	8.00	15.86	7.930	8.00	15.86	14.2	40.0	6.41	225	634		26	9	3
DF	Totals	7	86	57		84.183		132.52	84.183		132.52	9.3	36.0	35.22	1,236	4,777		141	49	19
DL		15	1	91	68	6.976	8.00	13.95	6.976	8.00	13.95	13.7	50.0	5.24	192	698		21	8	3
DL		16	1	90	69	5.730	8.00	11.46	5.730	8.00	11.46	18.5	60.0	5.90	212	688		24	8	3
DL	Totals	2	91	68		12.706	16.00	25.41	12.706	16.00	25.41	15.9	54.5	11.14	404	1,385		45	16	6
Totals		26	87	73		234.207	208.00	421.67	234.207	208.00	421.67	14.1	52.5	184.19	5947	22,151		737	238	89

Conifer leave = 80ft<sup>2</sup> ba  
tpa = 53.4

Area 5

TC TSTNDSUM		Stand Table Summary															
Project EASTFP																	
T02N R09W S17 T0500											T02N R09W S17 T0500						
Twp Rge Sec Tract		Type		Acres		Plots		Sample Trees			Page: 1						
02N 09W 17 EASTFP120		EASTFP		79.00		51		276			Date: 1/7/2005						
											Time: 3:41:24PM						
S Spc	T	Sample			Av	Trees/ BA/ Logs			Average Log		Net		Net		Totals		
		DBH	Trees	16'	Ht	Trees/	BA/	Logs	Net	Net	Tons/	Cu.Ft.	Bd.Ft.	Tons	Cunits	MBF	
						Acre	Acre	Acre	Cu.Ft.	Bd.Ft.	Acre	Acre	Acre				
WL	9	3	90	31	5.380	2.35	5.38	5.3	23.2	.92	29	125	72	23	10		
WL	10	1	90	77	1.355	.78	1.36	14.0	40.0	.59	19	54	47	15	4		
WL	11	3	91	61	3.637	2.35	3.64	13.7	46.7	1.60	50	170	126	39	13		
WL	12	5	87	79	5.002	3.92	8.02	13.6	47.1	3.48	109	378	275	86	30		
WL	13	6	88	82	5.107	4.71	9.36	14.8	58.1	4.44	139	544	350	110	43		
WL	14	6	90	80	4.492	4.71	8.20	16.0	58.3	4.20	131	478	332	103	38		
WL	15	10	89	87	6.396	7.84	10.88	22.8	89.6	7.92	248	976	626	196	77		
WL	16	6	90	86	3.423	4.71	7.37	20.2	82.1	4.77	149	605	377	118	48		
WL	17	4	89	78	1.969	3.14	3.46	23.3	72.9	2.58	81	253	204	64	20		
WL	18	3	90	96	1.338	2.35	2.68	32.2	122.0	2.76	86	326	218	68	26		
WL	19	5	91	89	2.018	3.92	4.04	32.3	118.9	4.17	130	480	329	103	38		
WL	20	8	89	85	2.940	6.27	5.88	33.9	125.0	6.37	199	734	503	157	58		
WL	21	3	92	86	.975	2.35	2.28	36.7	152.5	2.68	84	347	211	66	27		
WL	22	4	90	88	1.178	3.14	2.35	40.0	160.1	3.01	94	377	238	74	30		
WL	24	2	92	103	.491	1.57	.98	63.1	280.1	1.98	62	275	157	49	22		
WL	Totals	69	89	76	45.701	54.12	75.87	21.2	80.7	51.46	1,608	6,122	4,065	1,271	484		
DL	10	3	85	64	4.094	2.35	4.09	12.9	40.0	1.45	53	164	114	42	13		
DL	11	2	85	49	2.411	1.57	2.41	11.2	34.6	.74	27	83	59	21	7		
DL	12	4	86	74	3.867	3.14	3.87	17.4	60.1	1.85	67	232	146	53	18		
DL	13	10	85	72	8.428	7.84	10.88	17.0	60.6	5.11	185	659	404	146	52		
DL	14	8	87	78	5.886	6.27	8.79	16.9	61.7	4.11	149	542	325	118	43		
DL	15	12	86	79	7.765	9.41	14.26	17.2	59.2	6.73	245	845	532	193	67		
DL	16	8	87	89	4.447	6.27	8.33	23.3	87.9	5.34	194	732	422	153	58		
DL	17	3	87	95	1.505	2.35	3.01	25.3	96.7	2.09	76	291	165	60	23		
DL	18	6	87	87	2.699	4.71	5.40	26.5	95.0	3.95	143	513	312	113	40		
DL	19	4	88	96	1.574	3.14	3.54	31.4	114.5	3.05	111	405	241	88	32		
DL	20	1	87	78	.356	.78	.71	30.5	95.0	.59	22	68	47	17	5		
DL	22	1	89	92	.303	.78	.61	45.5	170.0	.76	28	103	60	22	8		
DL	Totals	62	86	77	43.335	48.63	65.89	19.7	70.4	35.77	1,299	4,636	2,826	1,026	366		
WH	8	13	89	40	28.058	10.20	23.31	6.1	28.3	4.56	142	659	360	112	52		
WH	9	10	92	44	17.971	7.84	17.97	6.8	30.8	3.93	123	554	310	97	44		
WH	10	12	90	49	17.702	9.41	17.65	8.6	34.1	4.90	152	602	387	120	48		
WH	11	8	87	63	9.393	6.27	10.54	12.1	42.2	4.07	127	444	321	100	35		
WH	12	7	88	86	7.097	5.49	13.14	13.2	51.6	5.54	173	678	438	137	54		
WH	13	8	89	61	6.815	6.27	10.14	14.4	52.9	4.67	146	536	369	115	42		
WH	14	4	90	75	2.919	3.14	5.15	16.9	65.4	2.79	87	337	220	69	27		
WH	15	3	91	76	1.971	2.35	3.26	20.7	73.8	2.16	67	240	171	53	19		
WH	16	1	91	90	.583	.78	1.17	21.0	85.0	.78	24	99	62	19	8		
WH	17	1	92	73	.475	.78	.95	24.3	100.0	.74	23	95	58	18	8		
WH	20	1	92	92	.349	.78	.70	36.2	135.0	.81	25	94	64	20	7		
WH	21	1	92	91	.339	.78	.68	41.4	160.0	.90	28	108	71	22	9		
WH	Totals	69	90	53	93.673	34.11	104.65	10.7	42.5	35.84	1,119	4,447	2,832	884	351		
DF	8	2	84	47	4.230	1.57	4.23	6.0	25.2	.72	25	107	57	20	8		
DF	9	7	85	39	12.631	5.49	10.69	6.1	23.5	1.86	65	251	147	52	20		
DF	10	7	86	66	9.945	5.49	11.27	9.6	36.2	3.08	108	408	244	85	32		
DF	11	10	86	50	11.974	7.84	11.97	11.3	36.8	3.83	135	441	303	107	35		
DF	12	8	86	70	8.121	6.27	9.09	15.1	48.9	3.92	137	445	310	109	35		
DF	13	9	87	66	7.803	7.06	9.57	16.0	49.7	4.35	153	476	343	121	38		
DF	14	4	86	86	2.990	3.14	5.20	16.4	58.7	2.42	85	305	191	67	24		
DF	15	1	88	72	.631	.78	1.26	16.7	70.0	.60	21	88	47	17	7		

Stand Table Summary															
TC TSTNDSUM															
Project EASTFP															
T02N R09W S17 T0500										T02N R09W S17 T0500					
Twps Rge Sec Tract				Type		Acres		Plots		Sample Trees		Page: 2			
02N 09W 17 EASTFP120				0500		79.00		51		276		Date: 1/7/2005			
Time: 3:41:24PM															
S Spc	T	Av			Trees/ Acres	BA/ Acres	Logs Acres	Average Log		Net Cu.Ft.	Net Cu.Ft.	Net Bd.Ft.	Totals		
		DBH	Trees	16'				Tot	Net Cu.Ft.				Net Bd.Ft.	Tons	Cunits
DF	16	1	88	71	.591	.78	.59	28.4	90.0	.48	17	53	38	13	4
DF	17	1	77	93	.510	.78	1.02	23.6	75.0	.69	24	76	54	19	6
DF	18	2	88	72	.903	1.57	1.81	22.0	72.3	1.14	40	131	90	31	10
DF	Totals	52	86	58	60.329		66.71	12.2	41.7	23.09	811	2,781	1,824	641	220
RA	10	3	93	69	4.097	2.35	4.10	14.5	69.7	1.63	59	286	129	47	23
RA	11	2	94	24	2.363	1.57	1.26	7.2	30.0	.25	9	38	20	7	3
RA	12	4	94	43	3.868	3.14	3.87	13.4	50.2	1.44	52	194	113	41	15
RA	13	3	93	30	2.651	2.35	2.65	12.0	36.2	.87	32	96	69	25	8
RA	15	1	94	50	.606	.78	.61	24.8	70.0	.41	15	42	33	12	3
RA	16	1	94	74	.535	.78	1.07	18.9	90.0	.55	20	96	44	16	8
RA	Totals	14	94	47	14.120	10.98	13.55	13.8	55.5	5.15	187	752	407	148	59
NF	21	1	78	118	.323	.78	.65	44.1	130.0	.68	28	84	54	22	7
NF	Totals	1	78	118	.323	.78	.65	44.1	130.0	0.68	28	84	54	22	7
SS	9	1	70	17	1.815	.78		7.6	20.0	.28	11	29	22	9	2
SS	10	1	67	37	1.438	.78	1.44	10.6	20.0	.26	10	19	20	8	1
SS	12	2	70	23	2.023	1.57	.94	14.6	20.0	.34	13	18	27	10	1
SS	13	1	51	38	.892	.78	.89	7.9	5.2	.27	10	7	21	8	1
SS	15	2	29	83	1.323	1.57	1.32	9.6	15.7	1.15	44	72	91	35	6
SS	Totals	7	60	36	7.491	5.49	4.59	7.6	30.0	.24	9	36	19	7	3
BM	11	1	94	24	1.188	.78	1.19	7.6	30.0	0.24	9	36	19	7	3
BM	Totals	1	94	24	1.188	.78	1.19	7.6	30.0	0.24	9	36	19	7	3
RC	15	1	80	45	.622	.78	.62	23.9	40.0	.35	15	25	28	12	2
RC	Totals	1	80	45	.622	.78	.62	23.9	40.0	0.35	15	25	28	12	2
Totals		276	87	61	266.781	216.47	333.71	15.3	56.8	153.74	5121	18,955	12,145	4,045	1,497

Conifer leave - 109.8 ft<sup>2</sup> ba  
tpa - 97.4



## East Foley Peak

### Volume Summary

Area 1						
31 acres						
SPECIES	Basal Area Per Acre	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	49	92	4.5	140	5%	133
Hemlock	110	130	14.3	443	5%	421
Alder	0	0	0.0	0	10%	0
<b>TOTAL</b>				583		554

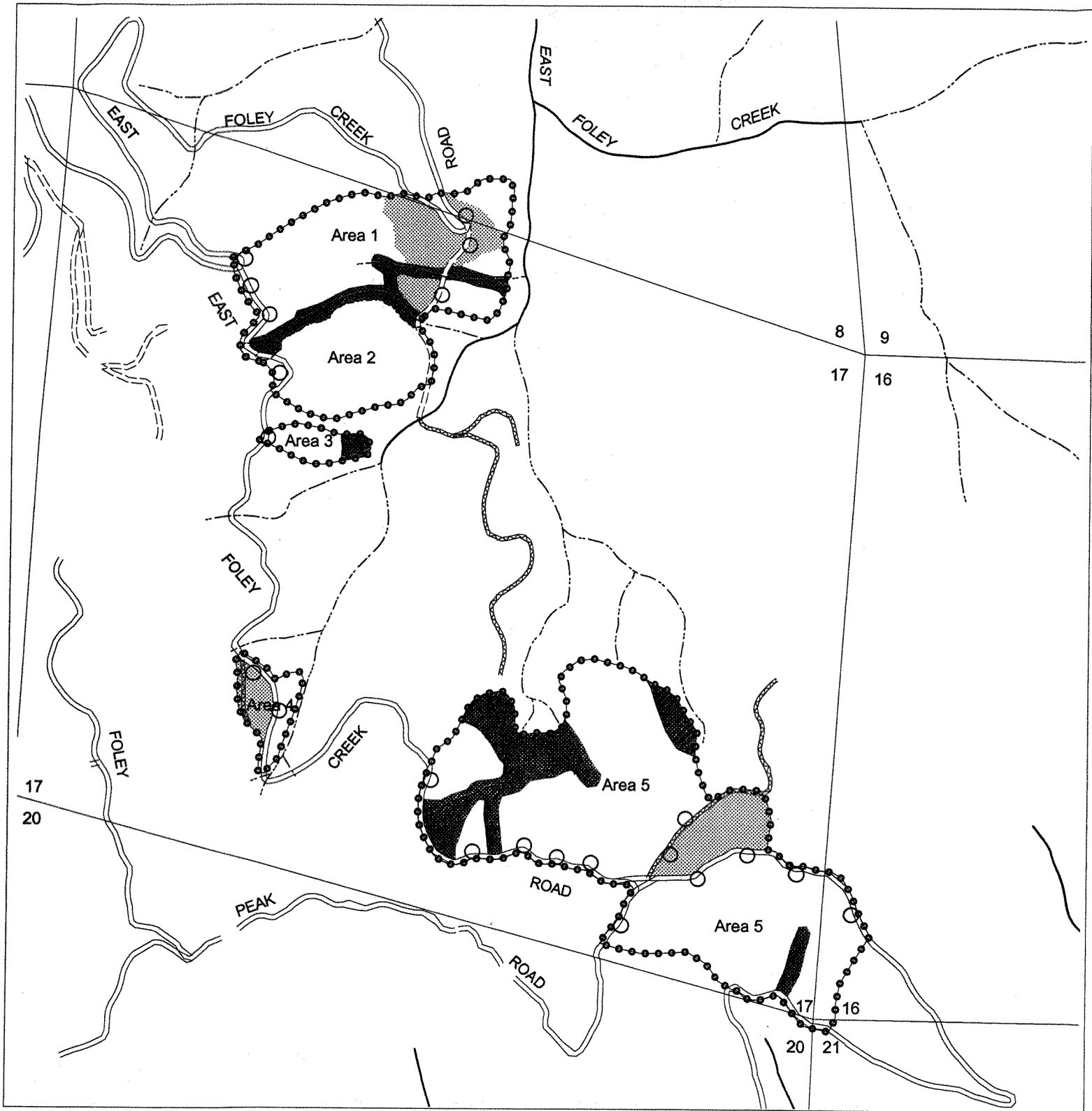
Area 2						
17 acres						
SPECIES	Basal Area Per Acre	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	44	72	3.2	54	5%	51
Hemlock	89	111	9.9	168	5%	160
Alder	0	0	0.0	0	10%	0
<b>TOTAL</b>				222		211

Area 3						
3 acres						
SPECIES	Basal Area Per Acre	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	48	76	3.6	11	5%	10
Hemlock	160	87	13.9	42	5%	40
Alder	0	0	0.0	0	10%	0
<b>TOTAL</b>				53		50

Area 4						
5 acres						
SPECIES	Basal Area Per Acre	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	56	85	4.8	24	5%	23
Hemlock	72	117	8.4	42	5%	40
Alder	0	0	0.0	0	10%	0
<b>TOTAL</b>				66		63

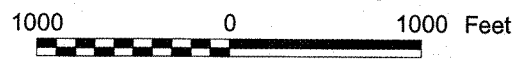
Area 5						
77 acres						
SPECIES	Basal Area Per Acre	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	40	68	2.7	208	5%	198
Hemlock	54	82	4.4	339	5%	322
Alder	0	0	0.0	0	10%	0
<b>TOTAL</b>				547		520

TOTAL SALE VOLUME			
SPECIES	Gross Vol. (MBF)		Net Vol. (MBF)
Douglas-fir	437		415
Hemlock	1034		983
Alder	0		0
<b>TOTAL</b>	1471		1398



- Landing
- ▲ Domestic water supply
- ⊗ Blocked
- 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. 341-05-63  
 East Foley Peak  
 Portions of Sections 8, 16, 17, 20, and 21,  
 T2N, R9W, W. M.  
 Tillamook County, Oregon



Area	Type of Operation	Acres	
		Sale	Net
1	Partial Cut	39	30
2	Partial Cut	18	17
3	Partial Cut	4	3
4	Partial Cut	5	4
5	Partial Cut	100	77
<b>Total</b>		<b>166</b>	<b>131</b>

Tillamook District GIS  
 2/5/2005  
 This product is for informational use and may not have been prepared for, or suitable for legal, engineering, or surveying purposes.

