



"STEWARDSHIP IN FORESTRY"

# Timber Sale Appraisal Cost Summary Barking Beagle Sale 341-05-83

District: Tillamook

Date: 2/10/05

	Conifer	Hardwood	Total
<b>Gross Timber Sale Value</b>	\$152,627.72	\$83,115.45	\$235,743.17
		<b>Project Work</b>	(\$72,300.00)
		<b>Advertised Value</b>	\$163,443.17



# Timber Sale Appraisal Timber Description Barking Beagle Sale 341-05-83

"STEWARDSHIP IN FORESTRY"

**District:** Tillamook

**Location:** Portion of Sections 28, 29, 32 & 33 T1S, R7W, W. M., Tillamook County, Oregon.

**Date:** 2/10/05

**Stand Stocking:** 60%

Species	Avg. DBH	Amortized%	Recovery%
Douglas - Fir	13	0	95
Alder (Red)	15	0	90

Volume by Grade	Douglas - Fir	Alder (Red)	Total
2S	7	3	10
3S	633	215	848
4S	148	217	365
<b>Total</b>	<b>788</b>	<b>435</b>	<b>1,223</b>

**Comments:** Pond Values Used: 4th Quarter 2004.

Cedar Price: \$875/MBF-\$380/MBF (logging cost)=\$495/MBF Stumpage Value  
Alder Grades are diameter sorts: 2S = 12" and greater, 3S = 10" & 11", 4S = 8" & 9".

Road Maintenance Costs of Prospective Haul Route (1.9 miles of the Toll Road, 2.8 miles of the Eagle Hill Road and 0.4 miles of Spurs): \$4.59/MBF

Surfacing:((10 C.Y./MMBF-mile x 3.3 miles) + (25 C.Y./MMBF-mile x 1.8 Miles)) x  
1,223 MMBF x \$15.00/C.Y./1,223 MBF=\$1.17/MBF  
Grading-Interim Maintenance=\$250/mi x 5.1 miles/1223 MBF=\$1.04/MBF  
Grading-Final Maintenance=\$500/mi x 5.1 miles/1,223 MBF=\$2.09/MBF  
Mobilization: \$360.00/1,223 MBF=\$0.29/MBF

Total (Profit & Risk Included): \$41,170.60

Non-project, Dirt Spurs (Profit & Risk Included): \$10,336.00

Construction of Non-project, Dirt Spurs: \$200/Station x 17 Stations=\$3,400.00

Improvement of Non-project, Dirt Spurs:\$175/Station x 21 Stations=\$3,675.00

Approach Rock (Pit-Run) for Non-project Dirt Spurs: 25 C.Y./Station x 2 Stations x  
\$8.62/C.Y.=\$431.00

Tank Trap Installation (Road Closures): \$50/Tank Trap x 2 Tank Trap=\$100.00

Waterbar Installation: 17 hrs X \$90/Hr =\$1,530.00

Other (Profit & Risk Included): \$30,834.60

Trask Public Safety Road Fee: \$25/MBF x 1,223 MBF=\$30,575.00

Slash Piling & Sorting: 118 Acres x 1 machine hour/50 Acres-hour x \$110/hour= \$259.60

Other (Add Profit & Risk): \$39,136.00

Truck Assisted: \$30/MBF x 1,223 MBF=\$36,690.00

Brand & Paint: \$2.00/MBF x 1,223 MBF=\$2,446.00

OHV Rolling Dips: 16 X \$75 = \$1200.00



# Timber Sale Appraisal

## Logging Conditions

### Barking Beagle

#### Sale 341-05-83

"STEWARDSHIP IN FORESTRY"

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<b>Combination#:</b> 1	Douglas - Fir	10.00%	
	Alder (Red)	10.00%	
<b>Yarding Distance:</b>	Short (400 ft)		<b>Downhill Yarding:</b> Yes
<b>Logging System:</b>	Track Skidder		<b>Process:</b> Feller Buncher
<b>Tree Size:</b>	Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF		
<b>Loads/Day:</b>	8		<b>Bd. Ft./Load:</b> 3,260
<b>Cost/MBF:</b>	\$134.93		
<b>Machines:</b>	Feller Buncher w/ Delimber Log Loader (B) Stroke Delimber (B) Track Skidder		
<b>Combination#:</b> 2	Douglas - Fir	9.00%	
	Alder (Red)	9.00%	
<b>Yarding Distance:</b>	Short (400 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>	6		<b>Bd. Ft./Load:</b> 3,260
<b>Cost/MBF:</b>	\$167.82		
<b>Machines:</b>	Log Loader (A) Stroke Delimber (A) Tower Yarder (Medium)		
<b>Combination#:</b> 3	Douglas - Fir	81.00%	
	Alder (Red)	81.00%	
<b>Yarding Distance:</b>	Medium (800 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>	5		<b>Bd. Ft./Load:</b> 3,260
<b>Cost/MBF:</b>	\$201.39		
<b>Machines:</b>	Log Loader (A) Stroke Delimber (A) Tower Yarder (Medium)		



# Timber Sale Appraisal

## Logging Costs

## Barking Beagle

## Sale 341-05-83

"STEWARDSHIP IN FORESTRY"

Date: 2/10/05

Operating Seasons: 2.0

Profit & Risk: 15%

Project Costs: \$72,300

Other Costs (P/R): \$39,136

Slash Disposal: \$0

Other Costs: \$41,171

Road Maintenance: \$4.59

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
Douglas - Fir	\$0.00	2.0	3.4
Alder (Red)	\$0.00	3.0	3.0



"STEWARDSHIP IN FORESTRY"

# Timber Sale Appraisal Logging Costs Breakdown Barking Beagle Sale 341-05-83

Costs	Douglas - Fir	Alder (Red)
<b>Logging</b>	191.72	191.72
<b>Road Maintenance</b>	4.83	5.10
<b>Fire Protection</b>	4.43	4.43
<b>Hauling</b>	69.16	56.78
<b>Other (P/R appl.)</b>	32.00	32.00
<b>Profit &amp; Risk</b>	45.32	43.50
<b>Slash Disposal</b>	0.00	0.00
<b>Scaling</b>	2.00	0.00
<b>Other</b>	33.66	33.66
<b>Total</b>	383.12	367.19

<b>Amortization</b>	0.00	0.00
<b>Pond Value</b>	576.81	558.26
<b>Stumpage</b>	193.69	191.07
<b>Amortized</b>	0.00	0.00



"STEWARDSHIP IN FORESTRY"

# Timber Sale Appraisal Summary Barking Beagle Sale 341-05-83

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## Amortized

	Douglas - Fir	Alder (Red)
MBF	0.00	0.00
Value	0.00	0.00
Total	0.00	0.00

## Unamortized

	Douglas - Fir	Alder (Red)
MBF	788.00	435.00
Value	193.69	191.07
Total	152,627.72	83,115.45

## Gross Timber Sale Value

**Recovery \$235,743.17**

Prepared by: Jim Neuman

Date: 2/10/05

District: Tillamook

Phone: (503) 842-2545



## PROJECT SUMMARY SHEET

Sale: Barking Beagle

### CONSTRUCTION

Point	C to D	6+40	stations =	\$9,720.56
<b>SUBTOTAL CONSTRUCTION</b>				<b>\$9,720.56</b>

### IMPROVEMENT

Point	Z to A	48+00	stations =	\$4,301.80
Point	A to B	64+20	stations =	\$56,949.37
<b>SUBTOTAL IMPROVEMENT</b>				<b>\$61,251.17</b>

### SPECIAL PROJECTS

Remove Culvert from State Land	\$100.00
<b>SUBTOTAL SPECIAL PROJECT</b>	<b>\$100.00</b>

<b>MOVE IN</b>	<b>\$1,228.27</b>
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<b>GRAND TOTAL</b>	<b>\$72,300.00</b>
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## SUMMARY OF CONSTRUCTION COST

Sale:	<u>Barking Beagle</u>					Road: <u>A to B</u>	
Construction -	0+00 stations <u>0.00</u> miles					Improvement - <u>64+20</u> stations <u>1.22</u> miles	
<b>CLEARING AND GRUBBING -</b>							
Scattering		1.810 acres @		\$815.00 per acre =	<u>\$1,475.15</u>		
				TOTAL CLEARING AND GRUBBING		<b>\$1,475.15</b>	
<b>EXCAVATION -</b>							
Road Earthwork		39.40 sta. @		\$75.00 per sta. =	\$2,955.00		
Road Earthwork		16.30 sta. @		\$120.00 per sta. =	\$1,956.00		
Road Earthwork (Full Bench Const. Drift, Compact & Junct.)		8.00 hrs. @		\$130.00 per hr. =	\$1,040.00		
Construct Waste Area		2 hrs. @		\$130.00 per hr. =	<u>\$260.00</u>		
				TOTAL EXCAVATION		<b>\$5,171.00</b>	
<b>ENDHAUL -</b>							
					<u>TOTAL ENDHAUL</u>	<b>\$0.00</b>	
<b>CULVERTS - MATERIALS &amp; INSTALLATION</b>							
	<u>Culverts</u>						
	0 LF of 18"	\$0.00		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"	<u>\$0.00</u>		0 LF of 72"	<u>\$0.00</u>		
		\$0.00			\$0.00		
	<u>Half Rounds</u>						
	0 LF of 21"	\$0.00		0 LF of 30"	\$0.00		
	0 LF of 36"	<u>\$0.00</u>		0 LF of 42"	<u>\$0.00</u>		
		\$0.00			\$0.00		
	<u>Culvert Stakes &amp; Markers</u>						
	0 stakes	\$0.00					
	0 markers	<u>\$0.00</u>					
		\$0.00					
				TOTAL CULVERTS		<b>\$0.00</b>	
<b>ROCK</b>							
0+00 to	64+20	1,991 cy. of	4"-0" Base Rock	@	\$14.93 per c.y. =	\$29,725.63	
8+50 to	64+20	830 cy. of	2"-0"	@	\$14.93 per c.y. =	\$12,391.90	
Bedding for diverters		55 cy. of	2"-0"	@	\$13.63 per c.y. =	<u>\$749.65</u>	
					TOTAL ROCK		<b>\$42,867.18</b>
<b>SPECIAL PROJECTS</b>							
Grade and shape road -		55.70 stations @		\$14.20 per station	\$790.94		
Construct/Install rubber water diverters & stakes -		11.0 @		\$450.00 each	\$4,950.00		
Roll subgrade w/ vibratory roller prior to rocking -		55.70 stations @		\$11.00 per station	\$612.70		
Grass seed and fertilize -		1.32 acres @		\$220.00 per acre	\$290.40		
Mulching -		1.32 acres @		\$600.00 per acre	<u>\$792.00</u>		
				TOTAL SPECIAL PROJECTS		<b>\$7,436.04</b>	
<b>GRAND TOTAL</b>						<b>\$56,949.37</b>	

## SUMMARY OF CONSTRUCTION COST

Sale:	<u>Barking Beagle</u>				Road: <u>C to D</u>
Construction -	<u>6+40</u> stations <u>0.12</u> miles				Improvement - <u>+00</u> stations <u>0.00</u> miles
<b>CLEARING AND GRUBBING -</b>					
Scattering		0.60	acres @	\$815.00 per acre =	<u>\$489.00</u>
				TOTAL CLEARING AND GRUBBING	<b>\$489.00</b>
<b>EXCAVATION -</b>					
Road Earthwork		6.40	sta. @	\$120.00 per sta. =	\$768.00
Full Bench		1010	cy. @	\$1.40 per c.y.=	<u>\$1,414.00</u>
				TOTAL EXCAVATION	<b>\$2,182.00</b>
<b>ENDHAUL -</b>					
Full Bench		1010	cy. @	\$0.86 per c.y.=	\$868.60
Spread & compact		1010	cy. @	\$0.20 per c.y.=	<u>\$202.00</u>
				TOTAL ENDHAUL	<b>\$1,070.60</b>
<b>CULVERTS - MATERIALS &amp; INSTALLATION</b>					
	<u>Culverts</u>				
	0 LF of 18"	\$0.00		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
		\$0.00			\$0.00
	<u>Half Rounds</u>				
	0 LF of 21"	\$0.00		0 LF of 30"	\$0.00
	0 LF of 36"	\$0.00		0 LF of 42"	\$0.00
		\$0.00			\$0.00
	<u>Culvert Stakes &amp; Markers</u>				
	0 stakes	\$0.00			
	0 markers	\$0.00			
		\$0.00			
				TOTAL CULVERTS	<b>\$0.00</b>
<b>ROCK</b>					
0+00	6+40	332	cy. of 4"-0" Rock	@ \$15.54 per c.y.=	<u>\$5,159.28</u>
				TOTAL ROCK	<b>\$5,159.28</b>
<b>SPECIAL PROJECTS</b>					
Grade and shape road -		6.40	stations @	\$14.20 per station	\$90.88
Roll Subgrade -		6.40	stations @	\$11.00 per station	\$70.40
Grass seed and fertilize -		0.40	acres @	\$220.00 per acre	\$88.00
Mulching -		0.40	acres @	\$600.00 per acre	<u>\$240.00</u>
				TOTAL SPECIAL PROJECTS	<b>\$819.68</b>
				<b>GRAND TOTAL</b>	<b>\$9,720.56</b>

## SUMMARY OF CONSTRUCTION COST

Sale:	<u>Barking Beagle</u>		Road: <u>Z to A</u>
Construction -	<u>0+00</u> stations <u>0.00</u> miles		Improvement - <u>48+00</u> stations <u>0.91</u> miles
<b>CLEARING AND GRUBBING -</b>			
Roadside Brushing	0.00 miles @	\$1,000.00 per mile =	\$0.00
Side cast	0.000 acres @	\$540.00 per acre =	\$0.00
Widening	0.000 acres @	\$540.00 per acre =	\$0.00
Scattering	0.000 acres @	\$815.00 per acre =	\$0.00
Piling	0.00 acres @	\$905.00 per acre =	\$0.00
Endhaul	0.00 acres @	\$1,500.00 per acre =	\$0.00
		<b>TOTAL CLEARING AND GRUBBING</b>	<b>\$0.00</b>
<b>EXCAVATION -</b>			
Widening	240 cy. @	\$1.40 per c.y.=	\$336.00
		<b>TOTAL EXCAVATION</b>	<b>\$336.00</b>
<b>ENDHAUL -</b>			
Widening/Full Bench	240 cy. @	\$1.30 per c.y.=	\$312.00
Spread & compact	240 cy. @	\$0.20 per c.y.=	\$48.00
		<b>TOTAL ENDHAUL</b>	<b>\$360.00</b>
<b>CULVERTS - MATERIALS &amp; INSTALLATION</b>			
	<u>Culverts</u>		
	32 LF of 18"	\$512.00	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>\$512.00</u>	<u>\$0.00</u>
	<u>Half Rounds</u>		
	0 LF of 21"	\$0.00	0 LF of 30" \$0.00
	0 LF of 36"	\$0.00	0 LF of 42" \$0.00
		<u>\$0.00</u>	<u>\$0.00</u>
	<u>Culvert Stakes &amp; Markers</u>		
	0 stakes	\$0.00	
	0 markers	\$0.00	
		<u>\$0.00</u>	
			<b>TOTAL CULVERTS</b>
			<b>\$512.00</b>
<b>ROCK</b>			
0+00 to 48+00	220 cy. of	2"-0" @	\$13.69 per c.y.=
			<u>\$3,011.80</u>
			<b>TOTAL ROCK</b>
			<b>\$3,011.80</b>
<b>Grass seed and fertilize -</b>			
	0.10 acres @	\$220.00 per acre	\$22.00
Mulching -	0.10 acres @	\$600.00 per acre	\$60.00
		<b>TOTAL SPECIAL PROJECTS</b>	<b>\$82.00</b>
<b>GRAND TOTAL</b>			<b>\$4,301.80</b>

## ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Pit:	Toll Quarry	Location:	SW 1/4, NE 1/4, Sec 16, T2S, R7W
Sale:	Barking Beagle	Road:	3208 c.y.
Swell:	1.40	Stockpile:	c.y.
Shrinkage:	1.16	Total Truck Loads:	3208 c.y.
Drill Pct.:	80%		18 <span style="float: right; border: 1px solid black; padding: 2px;">2291 c.y.</span>

Overburden Removal and Endhaul, Spread and Compact (6 hrs. ex. & truck) \$1,140.00

Drill & Shoot:	\$2.10	/cu.yd.	x	1833	cu.yds.	=	\$3,849.30
Rip Rock	\$1.75	/cu.yd.	x	458	cu.yds.	=	\$801.50
Push Rock:	\$0.60	/cu.yd.	x	3208	cu.yds.	=	\$1,924.80
Load Crusher:	\$0.60	/cu.yd.	x	3208	cu.yds.	=	\$1,924.80
Crush 4"-0"	\$1.85	/cu.yd.	x	2323	cu.yds.	=	\$4,297.55
Crush 2"-0"	\$2.30	/cu.yd.	x	1105	cu.yds.	=	\$2,541.50
Load Dump Truck:	\$0.60	/cu.yd.	x	3208	cu.yds.	=	\$1,924.80
Override Reduction:	\$4.50	/cu.yd.	x	321	cu.yds.	=	\$1,444.50

Subtotal \$19,848.75

Move In/Set-up Crusher							\$2,109.00
Move In and set up Drill and Compressor	1		@	\$218.39		=	\$218.39
Move in Roller and Compactor	1		@	\$218.39		=	\$218.39
Move in Grader	1		@	\$116.80		=	\$116.80
Move in D-8	1		@	\$324.54		=	\$324.54
Move in Loader	1		@	\$323.18		=	\$323.18
Move in Trucks	4		@	\$69.02		=	\$276.08
Move in Water Truck	1		@	\$81.00		=	\$81.00
Change Gradation				\$210.00			\$210.00
<b>Rock Truck Assist</b>							<b>\$2,400.00</b>
							Subtotal <span style="border-bottom: 1px solid black;">\$6,277.38</span>

**TOTAL PRODUCTION COSTS \$26,126.13**

Base Cost= \$8.14 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 - 4"-0"	5.49	1.30	8.14	14.93	1991	29,725.63
A to B - 2"-0"	5.49	1.30	8.14	14.93	830	12,391.90
A to B - 2"-0" backfill	5.49	0.00	8.14	13.63	55	749.65
C to D - 4" - 0"	6.10	1.30	8.14	15.54	332	5,159.28
Z to A - Spot Rock - 2"-0"	4.25	1.30	8.14	13.69	220	3,011.80
				Total C.Y.	3208	Sub Total <span style="border-bottom: 1px solid black;">53,304.26</span>

**TOTAL ROCKING COSTS 53,304.26**



## OREGON DEPARTMENT OF FORESTRY CRUISE REPORT

### *Barking Beagle*

"STEWARDSHIP IN FORESTRY"

1. **Type of Sale:** Regeneration harvest - Recovery
2. **Legal Description:** Portions of Sections 28, 29, 32 & 33 T1S, R7W, W.M., Tillamook County, Oregon.
3. **Sale Acreage:** The sale boundaries were plotted on a digital orthophoto and the acreage was calculated with GIS.

ACRES				
Area	Harvest Type	Sale	Total	Net
1	Modified Clearcut	100	99	99
2	Retention Cut	18	17	16
3	Modified Clearcut w/ Riparian Conversion	15	15	15
Total		133	131	130

#### **Sale Acres:**

Area within the Timber Sale Boundary signs.

#### **Total acres:**

*For accomplishment reporting*

Sale area, plus green tree retention areas outside the sale boundary, less roads and riparian areas classified as Special Stewardship in LCMS inside the sale boundary.

#### **Net acres:**

*Used for calculating the advertised volume.*

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

4. **Cruising Procedures:**

#### **A: Cruise Method:**

The cruise was designed to provide volume and grade for Douglas-fir and red alder and the number and quadratic mean diameters of other conifers and hardwoods. A total of 70 variable-radius full point plots were installed in the sale area. The cruise lines were oriented N 10 E. In the north 49 acres of Area 1 and the 15 acres of Area 3, a red alder stand with scattered patches of Douglas-fir, the plots were spaced 250 feet x 250 feet resulting in 40 plots. In the south 50 acres of Area 1 and the 16 acres of Area 2, a Douglas-fir stand with scattered patches of red alder, the plots were spaced 200 feet x 400 feet resulting in 30 plots. For all plots, the tree count by diameter and species were recorded. On every other plot, conifers and hardwoods were measured

and graded. Diameters were recorded to the nearest inch and heights to the foot. Diameters were taken at 4.5' above the ground on the uphill side. Conifers 8" DBH and greater and hardwoods 10" DBH and greater were recorded. The cruise had a coefficient of variation of 54.5% and a SE of 6.5% for the net board feet/acre.

**B: Plot size**

A 20 BAF was used for Douglas-fir and red alder. A 10 BAF was used for all other conifer and hardwoods. The point of tree observation was 4.5 feet.

**C: Grading System:** Conifer tree heights were measured to a 6" merchantable top (outside bark) and graded favoring 40 foot log lengths using Columbia River rules. All hardwoods were measured to an 8" top favoring 40 foot lengths.

5. **Computation Procedure:** For all areas, V-BAR (Volume-Basal Area Ratio), Basal Area and Quadratic Mean Diameter for the take trees were computed using SuperACE and entered into the Volume Summary Spreadsheet. For red alder, SuperACE log tables were used to determine diameter sorts.
6. **Defect and Breakage:** A 5% reduction for defect and breakage was applied to the volume for Douglas-fir. A 10% reduction for defect and breakage was applied to the volume for red alder.
7. **Timber Description:** The sale area burned in 1933 Tillamook fire and the 1939 Saddle Mountain fire. The area was planted in the early 1960's. The sale area has had no other stand management.
8. **Cruiser Names/Dates:** Don Everingham, Jay Morey & Ed Wallmark, November and December 2004.
9. **Revenue Distribution:**  
100% FDF  
Tax Code: 9-2  
Deed Numbers: 452, 453, 472 & 473  
Rehabilitation Obligation: 60%
10. **Attachments:**  
Volume Summary  
Conifer Take-Leave Tables for Areas 1 - 3  
Logging Plan

Prepared By: Jim Neuman

Date: 1-28-05



"STEWARDSHIP IN FORESTRY"

# Barking Beagle

## Volume Summary

Area 1, Modified Clearcut							
99 acres							
SPECIES	QMD	Basal Area	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	12	73	106	7.7	762	5%	724
Alder	14	39	77	3.0	297	10%	267
<b>TOTAL</b>							<b>991</b>

Area 2, Retention Cut							
16 acres							
SPECIES	QMD	Basal Area	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	13	53	80	4.2	67	5%	64
Alder	13	17	46	0.8	13	10%	12
<b>TOTAL</b>							<b>76</b>

Area 3, Modified Clearcut w/ Riparian Conversion							
15 acres							
SPECIES	QMD	Basal Area	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Alder	16	87	132	11.5	173	10%	156
<b>TOTAL</b>							<b>156</b>

### Total Sale Volume

SPECIES	QMD	Net Vol. (MBF)
Douglas-fir	13	788
Alder	15	435
<b>TOTAL</b>		<b>1223</b>

**Barking Beagle Area 1**  
 Modified Clearcut 99 Acres  
**Douglas-fir: Take - Leave Table**

DBH	D. Fir	Conifer
	Tk tr/acre	Lv tr/acre
8"	8.3	0.0
9"	14.8	0.0
10"	10.7	0.0
11"	10.5	0.0
12"	8.3	0.0
13"	6.3	0.0
14"	8.2	0.0
15"	6.8	0.0
16"	4.9	0.0
17"	3.9	0.0
18"	0.8	0.0
19"	1.7	0.0
20"	0.8	0.0
21"	0.8	0.0
22"	0.0	1.2
23"	0.0	0.4
24"	0.0	1.4
26"	0.0	0.9
28"	0.0	0.3
30"	0.0	0.0
32"	0.0	0.1
34"	0.0	0.0
Total	86.9	4.3

BA/AC	Douglas-fir
Total	87
Leave	14
Take	73

Trees/acre	Douglas-fir
Total	91
Lv trs/ac	4
Tk trs/ac	87

	Douglas-fir
RD Total	18
RD Expected	3

QMD	Douglas-fir
Current QM Diameter	13
Leave Stand QM Diameter	24
Take trees QM Diameter	12



## Barking Beagle Area 2

Retention Cut 16 Acres

### Douglas-fir: Take - Leave Table

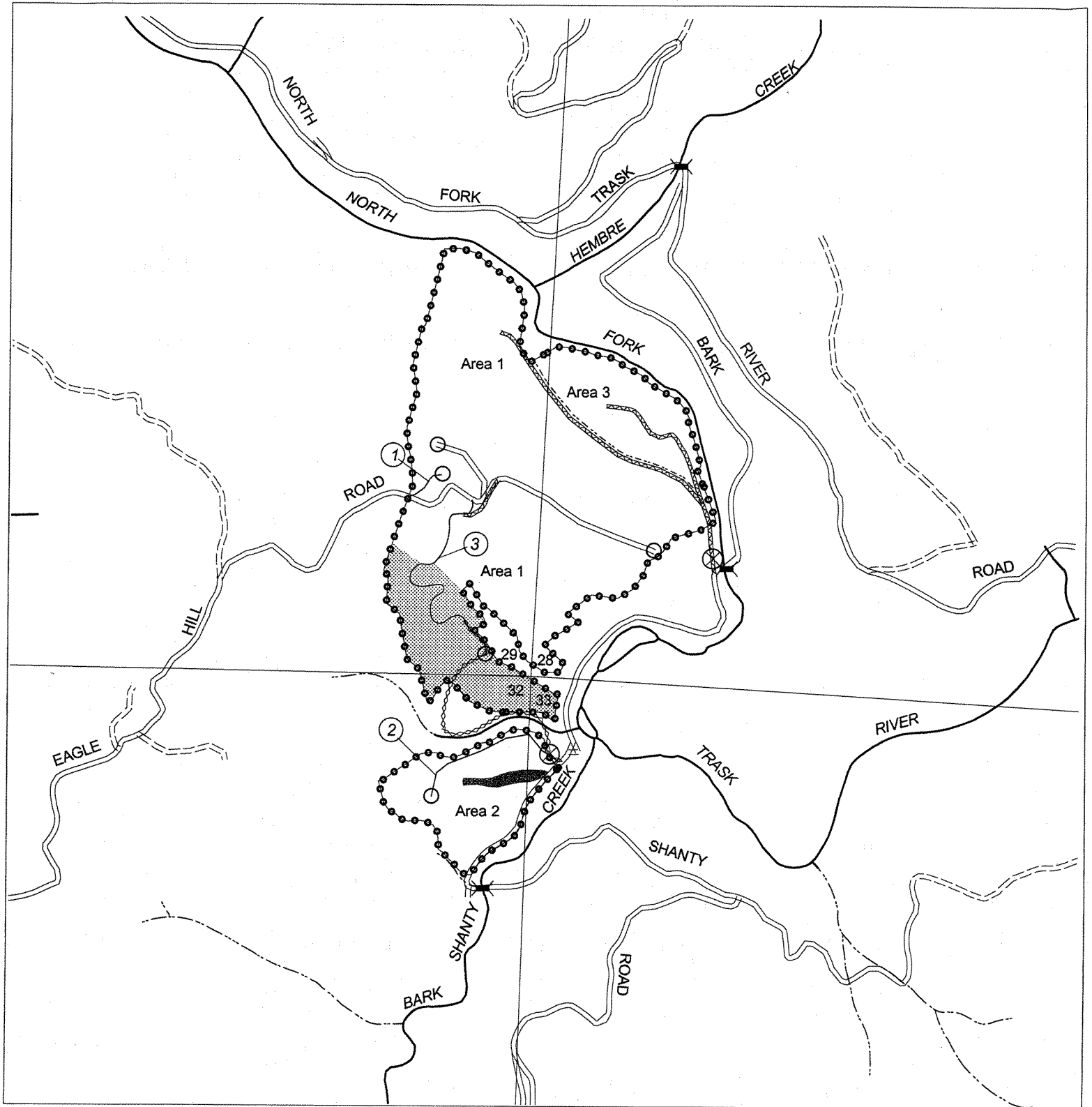
DBH	D. Fir	
	Tk tr/acre	Lv tr/acre
8"	0.0	0.0
9"	0.0	0.0
10"	24.4	0.0
11"	10.1	5.1
12"	4.2	0.0
13"	3.6	3.6
14"	0.0	3.1
15"	2.7	5.4
16"	0.0	2.4
17"	2.1	0.0
18"	1.9	0.0
19"	3.4	1.7
20"	1.5	0.0
21"	1.4	0.0
22"	0.0	0.0
23"	0.0	0.0
24"	1.1	1.1
26"	0.0	0.9
28"	0.0	1.6
30"	0.0	0.0
32"	0.0	0.0
34"	0.0	0.0
Total	56.5	24.8

BA/AC	Douglas-fir
Total	90
Leave	37
Take	53

Trees/acre	Douglas-fir
Total	81
Lv trs/ac	25
Tk trs/ac	56

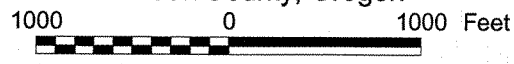
	Douglas-fir
RD Total	22
RD Expected	9

QMD	Douglas-fir
Current QM Diameter	14
Leave Stand QM Diameter	16
Take trees QM Diameter	13



**LOGGING PLAN**  
 Timber Sale Contract No. 341-05-83  
**Barking Beagle**  
 Portions of Sections 28, 29, 32, and 33,  
 T1S, R7W, W. M.  
 Tillamook County, Oregon

Area	Type of Operation	Acres	
		Sale	Net
1	Modified Clearcut	100	99
2	Retention Cut	18	16
3	Modified Clearcut	15	15
<b>Total</b>		<b>133</b>	<b>130</b>



Tillamook District GIS  
2-1-2005

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



- 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
- ==== Surfacd road
- ===== Unsurfaced road
- State highway
- County road
- ② Non-project road
- - - Swing road
- Abandoned road
- ○ ○ OHV trail
- ..... Non-motorized trail
- T T Transmission line