



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Millicoma Cougar
Sale 341-10-29

District: Coos

Date: December 11, 2009

cost summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$1,484,198.49	\$15,308.52	\$1,499,507.01
		Project Work:	\$(142,098.00)
		Advertised Value:	\$1,357,409.01



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timber description

Location: Portions of Section 8, T23S, R10W, W.M., Coos County, Oregon.

Stand Stocking: 20%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	23	0	95
Western Hemlock / Fir	16	0	90
Alder (Red)	17	0	85

Volume by Grade	10" - 11"	2S	3P and E	3S	3S 12"+	6" - 7"	SM	Total
Douglas - Fir	0	3,275	339	791	395	0	847	5,647
Western Hemlock / Fir	0	17	0	95	0	0	0	112
Alder (Red)	47	0	0	0	0	11	0	58
Total	47	3,292	339	886	395	11	847	5,817



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comments: Pond Values Used: 3rd Quarter Calendar Year 2009 + Local Pond Values.

Regeneration harvest of approximately 89 acres of 83-146 year old predominately Douglas-fir sawtimber and a small component of red alder and western hemlock.

Section 2335 - 45 snags shall be created in the timber sale area following timber sale contract specifications. For each snag fewer than 45 not required to be created, \$100 shall be paid to STATE.

Section 2416: Purchaser shall employ cleaning methods to prevent the spread of invasive weeds and Noxious weeds into the Sale Area. If STATE deems cleaning unnecessary, \$390 shall be paid to STATE.

Western Redcedar Stumpage Price = Pond Value minus Logging Cost
\$542/MBF = \$740/MBF - \$198/MBF

SCALING COST ALLOWANCE = \$5.00/MBF

FUEL COST ALLOWANCE = \$3.00/Gallon

HAULING COST ALLOWANCE

Hauling costs equivalent to \$700 daily truck cost.

Other Costs (with Profit & Risk to be added):

FELLING:

Directional Felling: \$2 each x 700 trees = \$1,400

YARDING AND LOADING:

Brand and Paint Logs: \$1/MBF x 5,817 MBF = \$5,817

Cull Sorting/Slash Piling on Landings: \$125/landing x 11 landings
= \$1,375

SNAG CREATION:

Tree Topping: \$100/tree x 23 trees = \$2,300

Tree Girdling (Topping Height): \$100/tree x 22 trees = \$2,200

MISCELLANEOUS COSTS:

Fish Log Stock Pile - Yarding & Decking: \$62/MBF x 56 MBF = \$3,472

Fish Log Stock Pile - Special Handling: \$8/MBF x 56 MBF = \$448

Noxious Weed Washing: \$390 per unit x 1 piece = \$390

TOTAL Other Costs (with Profit & Risk to be added) = \$17,402

Other Costs (No Profit & Risk to be added):

None.



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logging conditions

combination#: 1 Douglas - Fir 77.00%
 Western Hemlock / Fir 77.00%
 Alder (Red) 77.00%

yarding distance: Medium (800 ft) **downhill yarding:** No
logging system: Cable: Large Tower >=70 **Process:** Manual Delimiting
tree size: Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF
loads / day: 12.0 **bd. ft / load:** 5,000
cost / mbf: \$61.56

machines: Log Loader (A)
 Tower Yarder (Large)

combination#: 2 Douglas - Fir 15.00%
 Western Hemlock / Fir 15.00%
 Alder (Red) 15.00%

yarding distance: Medium (800 ft) **downhill yarding:** No
logging system: Shovel **Process:** Manual Delimiting
tree size: Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF
loads / day: 12.0 **bd. ft / load:** 5,000
cost / mbf: \$41.74

machines: Shovel Logger

combination#: 3 Douglas - Fir 8.00%
 Western Hemlock / Fir 8.00%
 Alder (Red) 8.00%

yarding distance: Medium (800 ft) **downhill yarding:** Yes
logging system: Cable: Large Tower >=70 **Process:** Manual Delimiting
tree size: Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF
loads / day: 8.0 **bd. ft / load:** 5,000
cost / mbf: \$115.42

machines: Log Loader (A)
 Tower Yarder (Large)



"STEWARDSHIP IN FORESTRY"

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District: Coos

Date: December 11, 2009

logging costs

Operating Seasons:	2.00	Profit Risk:	15.00%
Project Costs:	\$142,098.00	Other Costs (P/R):	\$17,402.00
Slash Disposal:	\$0.00	Other Costs:	\$0.00

Miles of Road

Road Maintenance: \$0.00

Dirt	Rock (Contractor)	Rock (State)	Paved
1.0	0.0	0.0	0.0

Hauling Costs

Species	\$ / MBF	Trips/Day	MBF / Load
Douglas - Fir	\$0.00	2.0	5.0
Western Hemlock / Fir	\$0.00	2.0	4.8
Alder (Red)	\$0.00	2.0	3.5

Local Pond Values

Date	Specie	Grade	Value
12/11/09	Douglas - Fir	2S	\$470.00
12/11/09	Red Cedar	3S	\$740.00



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logging costs breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
Douglas - Fir									
\$62.90	\$0.63	\$1.51	\$63.91	\$2.99	\$19.79	\$0.00	\$5.00	\$0.00	\$156.73
Western Hemlock / Fir									
\$62.90	\$0.66	\$1.51	\$69.75	\$2.99	\$20.67	\$0.00	\$5.00	\$0.00	\$163.48
Alder (Red)									
\$62.90	\$0.69	\$1.51	\$100.00	\$2.99	\$25.21	\$0.00	\$5.00	\$0.00	\$198.30

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$417.60	\$260.87	\$0.00
Western Hemlock / Fir	\$0.00	\$262.28	\$98.80	\$0.00
Alder (Red)	\$0.00	\$462.24	\$263.94	\$0.00



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summary

Amortized

Specie	MBF	Value	Total
Douglas - Fir	0	\$0.00	\$0.00
Western Hemlock / Fir	0	\$0.00	\$0.00
Alder (Red)	0	\$0.00	\$0.00

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	5,647	\$260.87	\$1,473,132.89
Western Hemlock / Fir	112	\$98.80	\$11,065.60
Alder (Red)	58	\$263.94	\$15,308.52

Gross Timber Sale Value

Recovery: \$1,499,507.01

Prepared by: Ryan Greco

Phone: 541-267-1755

Summary of "Other Costs" for Timber Sale Appraisals

Sale Name: Millicoma Cougar

Additional "Other Cost" with additional profit and risk to be added:

	<u>Units</u>	<u>Quantity</u>	<u>Cost/unit</u>	<u>Total Cost</u>
Felling				
Felling of unmerch material	MBF	0	\$ 1.00	\$ -
Directional Felling	MBF	700	\$ 2.00	\$ 1,400.00
Yarding and Loading				
Artificial tailhold	anchor		\$ 500.00	\$ -
Artificial guyline support	anchor	0	\$ 500.00	\$ -
Brand and paint logs	MBF	5817	\$ 1.00	\$ 5,817.00
Loader time for firewood stacking	Hours	0	\$ 75.00	\$ -
Cull sorting/slash piling on landings	landing	11	\$ 125.00	\$ 1,375.00
Rig lift trees	lift tree	0	\$ 100.00	\$ -
Snag Creation				
Tree Topping	Trees	23	\$ 100.00	\$ 2,300.00
Tree Girdling (BH)	Trees		\$ 50.00	\$ -
Tree Girdling (Topping Height)	Trees	22	\$ 100.00	\$ 2,200.00
Miscellaneous Costs				
Additional Fire Equipment	Seasons	0	\$ 1,000.00	\$ -
Fish Log Stock Pile: Yarding & Decking	MBF	56	\$ 62.00	\$ 3,472.00
Fish Log Stock Pile: Special Handling	MBF	56	\$ 8.00	\$ 448.00
Maintenance rock per section 5	Cubic Yards	0	\$ 18.00	\$ -
Noxious Weed Washing	Per Piece	1	\$ 390.00	\$ 390.00

Total additional "Other Cost" with additional profit and risk to be added	\$ 17,402.00
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Additional "Other Cost" with no additional profit and Risk

	<u>Units</u>	<u>Quantity</u>	<u>Cost/unit</u>	<u>Total Cost</u>
Non-required road construction	Stations			\$ -
Non-required road rocking	Cubic Yards			\$ -
Stream clearance	Feet			\$ -
Scaling (high piece count)	MBF		\$ 1.00	\$ -

TIMBER SALE SUMMARY

Millicoma Cougar

1. Type of Sale: Final Harvest, Recovery, Sealed Bid

2. Boundary Lines: Sale boundaries are marked on the ground with "Timber Sale Boundary" posters, red flagging, and red paint at locations shown on the Exhibit "A".

3. Revenue Distribution: 100% CSL, 100% Coos County.

4. Sale Acreage: The sale is comprised of one unit totaling 89 acres. Sale acreage was determined from electronic digitizing using the ArcMap 9 GIS program. Interior road acres were accounted for by including in the cruise.

5. Volume by Species, Fund and County: See Attached table titled Net Volumes and Acreages

6. Grade: (by Percent, all areas)

Species	3 Peeler %	Spec. Mill %	2 Saw %	3 Saw %	Big 3 Saw %	4 Saw %
Douglas-fir	6%	15%	58%	14%	7%	
Hemlock			15%	85%		
		12"+	10-11"	8-9"	6-7"	
Hardwoods			82%		18%	

7. Cruise: The timber sale area was cruised using a variable plot cruise with a nested Big BAF plot. The Big BAF method is a combination of count plots and individually measured trees. The plots were spaced 132 feet apart on cruise lines spaced 420 feet apart. A 360 BAF full plot at 16 feet was taken to determine which Douglas-fir trees would be fully measured.

A total of 60 Douglas-fir trees were fully measured for DBH, height, grade and defect. A 40 BAF full plot at 16 feet was used to determine tree counts and to measure minor species. A total of 67 count plots were measured. Cruising was done in October 2008 by ODF foresters.

A. Summary data:

Diam	Ht. Stand	Form Pt.	Form Factor	CV %	SE %
D4H	6" DIB	Conifer: 16' Hardwood: 16'	Recorded for all cruised trees by estimate and measure	47%	5.9%

B. Stand Data:

SPECIES	DBH	TREES/ACRE	BASAL AREA/AC	NET MBF/ACRE
Douglas Fir	23	95	278	63
Hemlock	16	16	13	1
Hardwoods	17	17	8	1

C. Green Tree Retention: Reserve areas consist of stream buffer extensions and trees left along seasonal and perennial drainages. Pods of green trees were left between the central ridge and the West Fork Millicoma River in the Scenic Production portion of the sale. These pods of trees should provide aesthetic value from the 8000 road while not impeding logability of the unit. The Northwest corner of the timber sale has some land classified as noncommercial rocky. Upon close inspection of the ground, part was posted outside the timber sale area and numerous scattered green trees were reserved within the rock outcrops inside the sale. The Northeast corner of the unit was posted out as GTR as it was difficult to log without detrimental effects to the nearby stream buffer. The table below summarizes reserve trees whose volume has been removed from the cruise. Stream buffers and GTR areas are mapped in Exhibit "A."

Sale Area	Douglas fir - MBF	Hemlock MBF	Hardwood MBF
1	149.7	2.8	0.9

8. Timber Description: The majority of timber in the sale area is mature 83 to 146 year-old Douglas-fir sawtimber with minor amounts of western hemlock and red alder. Timber quality is good to excellent.

9. Topography: The timber sale is split down the middle by a ridge that divides the northerly aspect from the southerly aspect. A small amount of the sale in the southeast part of the sale has a southeast aspect. Terrain is atypical of the Elliott with the central portion of the sale being very benchy. The areas adjacent to the boundaries tend to be steeper ground. The timber sale is bordered by a tributary to Cougar Creek to the east, the West Fork Millicoma River to the west and mature timber to the southeast. Locations of stream buffers and green tree retention areas are indicated on the Exhibit "A".

10. Logging Method: This timber sale is designed for a combination of cable and ground based logging from eleven landings situated on the 7610 road or new spurs to be constructed from the 7610. Due to the Marbled Murrelet Management Area (MMMA) to the southeast of the timber sale, seasonal restrictions will be in place and haul will be prohibited through the MMMA from April 1 through September 15 annually. In order to complete operations during the summer, a one day move-in allowance will be in place during the months of May and June to move equipment through the MMMA and into the sale area. To accomplish the move in within the one day period equipment may need to be staged at the bottom of the 7610 prior to the one-day allowance.

From this one day equipment move in until September 15 logging may occur in the sale area while following seasonal restrictions but log truck traffic will not be allowed through the MMMA. In order to successfully log this unit during the summer, large log decks will need to be built prior to the end of the hauling restriction. After September 15 seasonal restrictions will be lifted and log truck traffic is permitted through the MMMA without seasonal restrictions.

Final determination of landing locations and logging method must give priority to protection of stream buffers and green tree retention areas. Full suspension will be required while yarding over drainages and stream buffers, and single end suspension over the remainder of the sale area. The timber sale is intended for dry season operation. Purchaser must comply with winter and wet weather option if operations are conducted during the wet season. Roads and landings are indicated on the Exhibit "A".

11. Access: From Coos Bay, proceed north on Highway 101 to Lakeside, turn east and follow North Lake Road to the 4000 road (Benson Ridge). Follow the 4000 road east to the 4900 and proceed south on the 2000 road for approximately one half mile to the 8000. Proceed 7.5 miles up the 8000 to the 8000/7600 junction.

12. Projects:

Project 1: Road and Landing Construction

Project 2: Road Improvement

NET VOLUMES AND ACREAGE

SALE AREA & SPECIES		Tree cnt. 100% Units	NET VOLUMES (MBF)							
			By County and Fund						Total Vols.	Vol. per Acre
Area	Spec		Coos			Douglas				
		CSL	BOF	Total	CSL	BOF	Total			
1	D-fir		5647		5647			0	5647	63
	Hdwd		58		58			0	58	1
	WH		112		112			0	112	1

TOTAL SALE VOLUME BY SPECIES

Douglas-fir	5647	MBF
Hemlock	112	MBF
Hardwoods	58	MBF
Total	5817	MBF

Report by: Ryan Greco

Date: 11/24/2009

Unit For. *[Signature]* 11/24/09
Date

Asst. Dist. For. *[Signature]* 11.24.2009
Date

**UTILITY VOLUME NOT SHOWN TO PROVIDE FOR RETENTION OF DOWN LOGS
NO INGROWTH INCLUDED**

ACREAGE BY COUNTY (to nearest acre)

Sale Area	Coos County						Douglas County						TOTAL ACRES
	CSL			BOF			CSL			BOF			
	Conifer		Hard wood	Conifer		Hard woods	Conifer		Hard woods	Conifer		Hard woods	
	cc	pc		cc	pc		cc	pc		cc	pc		
1	89												89
SUM	89.0	0	0	0	0	0	0	0	0	0	0	0	89.0

cc- clearcut

pc- partial cut

BOF - Board of Forestry

CSL - Common School Land

SUMMARY OF CONSTRUCTION COST
Millicoma Cougar

Project 1A: Road and Landing Construction

Points: B to C Length: 1425' Type: 14' no ditch
 (includes landing at Point D)

Excavator	30	hrs at	\$125.00	per hour	\$3,750.00
Cat time	30	hrs at	\$120.00	per hour	\$3,600.00
Drill and Shoot	10	hrs at	\$250.00	per hour	\$2,500.00
Dump Truck	10	hrs at	\$95.00	per hour	\$950.00
Grader	1	hrs at	\$75.00	per hour	\$75.00
Laborer	30	hrs at	\$35.00	per hour	\$1,050.00

Total Project 1A: \$11,925.00

Project 1B: Road and Landing Construction

Points: E to F Length: 1025' Type: 14' w/ditch

Excavator	20	hrs at	\$125.00	per hour	\$2,500.00
Cat time	20	hrs at	\$120.00	per hour	\$2,400.00
Drill and Shoot	10	hrs at	\$250.00	per hour	\$2,500.00
Grader	1	hrs at	\$75.00	per hour	\$75.00
Laborer	15	hrs at	\$35.00	per hour	\$525.00

Total Project 1B: \$8,000.00

Project 1C: Road and Landing Construction

Points: G to H Length: 435' Type: 14' w/ditch

Excavator	10	hrs at	\$125.00	per hour	\$1,250.00
Cat time	10	hrs at	\$120.00	per hour	\$1,200.00
Grader	1	hrs at	\$75.00	per hour	\$75.00
Laborer	10	hrs at	\$35.00	per hour	\$350.00

Total Project 1C: \$2,875.00

Project 1D: Road and Landing Construction

Points: I to J Length: 700' Type: 14' w/ditch

Excavator	10	hrs at	\$125.00	per hour	\$1,250.00
Cat time	10	hrs at	\$120.00	per hour	\$1,200.00
Grader	1	hrs at	\$75.00	per hour	\$75.00
Laborer	10	hrs at	\$35.00	per hour	\$350.00

Total Project 1D: \$2,875.00

Project 1E: Road and Landing Construction

Points: B to K Length: 435' Type: 14' no ditch
 (includes landing at Point L)

Excavator	10	hrs at	\$125.00	per hour	\$1,250.00
Cat time	10	hrs at	\$120.00	per hour	\$1,200.00
Grader	1	hrs at	\$75.00	per hour	\$75.00
Laborer	10	hrs at	\$35.00	per hour	\$350.00

Total Project 1E: \$2,875.00

**SUMMARY OF CONSTRUCTION COST
Millicoma Cougar**

Project 1F: Road and Landing Construction

Points: M to N Length: 400' Type: 14' no ditch

Excavator	10	hrs at	\$125.00	per hour	\$1,250.00
Cat time	10	hrs at	\$120.00	per hour	\$1,200.00
Grader	1	hrs at	\$75.00	per hour	\$75.00
Laborer	10	hrs at	\$35.00	per hour	\$350.00

Total Project 1F: \$2,875.00

Project 1G: Road and Landing Construction

Points: M to O Length: 200' Type: 14' no ditch

Excavator	5	hrs at	\$125.00	per hour	\$625.00
Cat time	5	hrs at	\$120.00	per hour	\$600.00
Grader	1	hrs at	\$75.00	per hour	\$75.00
Laborer	5	hrs at	\$35.00	per hour	\$175.00

Total Project 1G: \$1,475.00

Project 1H: Landing Construction

Points: P Length: n/a Type: n/a

Cat time	2	hrs at	\$120.00	per hour	\$240.00
Excavator	2	hrs at	\$125.00	per hour	\$250.00

Total Project 1H: \$490.00

Project 1I: Road and Landing Construction

Points: Q Length: n/a Type: n/a

Cat time	2	hrs at	\$120.00	per hour	\$240.00
Excavator	2	hrs at	\$125.00	per hour	\$250.00

Total Project 1I: \$490.00

Move-in

Equipment	Miles	hrs/RT	Lowboy Rate/hr	Total
Excavator	35	5	\$95.00	\$475.00
Cat	35	5	\$95.00	\$475.00
Drill & Comp	35	4	\$95.00	\$380.00
Grader	35	4	\$95.00	\$380.00
Dump Truck	35	4	\$95.00	\$380.00

Total Move-in: \$2,090.00

Project 1 Total \$35,970.00

SUMMARY OF CONSTRUCTION COST
Millicoma Cougar

Project 2A: Road Improvement

Points: A to B Length: 3140' Type: 14' w/ditch (0+00 to 28+50)
14' no ditch (28+50 to 31+40)

Excavator	5	hrs at	\$125.00	per hour	\$625.00
Cat time	10	hrs at	\$120.00	per hour	\$1,200.00
Grader time	4	hrs at	\$75.00	per hour	\$300.00
Laborer	10	hrs at	\$35.00	per hour	\$350.00

Total Project 2A \$2,475.00

Project 2B: Road Improvement

Points: A to R Length: 645' Type: 14' w/ditch

Grader time	2	hrs at	\$75.00	per hour	\$150.00
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Total Project 2B \$150.00

Project 2 Total \$2,625.00

Project 3: Culvert Installation

18" Culvert Installation (approx. 8 locations)	240	feet at	\$17.00	per foot	\$4,080.00
Culvert Bands	8	bands at	\$19.00	per band	\$152.00

Project 3 Total \$4,232.00

Project 4A: Road Surfacing

Rock Type: 1 1/2"-0 Hard Crushed Quarry
Depth: 4" compacted, 14' wide road surface
Volume: 27 yds/STA

Points: A to R Length: 645'

1 1/2"-0" Rock (2.8 hr RT)	180	yds at	\$28.40	per yd	\$5,112.00
Processing (Grader and Roller)	180	yds at	\$1.50	per yd	\$270.00

Total Project 4A: \$5,382.00

Project 4B: Road Surfacing

Rock Type: 4"-0" and 2 1/2"-0" Hard Crushed Quarry
Depth: 5" compacted each 4"-0" and 2 1/2"-0", 12' wide road surface
Volume: 32 yds/STA each 4"-0" and 2 1/2"-0"

Points: A to E Length: 2850'

4"-0" Rock (3.0 hr RT)	918	yds at	\$25.57	per yd	\$23,473.26
2 1/2"-0" Rock (3.0 hr RT)	918	yds at	\$25.57	per yd	\$23,473.26
Processing (Grader and Roller)	918	yds at	\$1.50	per yd	\$1,377.00

Points: E to F Length: 1025'

4"-0" Rock (3.0 hr RT)	342	yds at	\$25.57	per yd	\$8,744.94
2 1/2"-0" Rock (3.0 hr RT)	342	yds at	\$25.57	per yd	\$8,744.94
Processing (Grader and Roller)	342	yds at	\$1.50	per yd	\$513.00

**SUMMARY OF CONSTRUCTION COST
Millicoma Cougar**

Points: G to H Length: 435'

4"-0" Rock (3.0 hr RT)	144	yds at	\$25.57	per yd	\$3,682.08
2 1/2"-0" Rock (3.0 hr RT)	144	yds at	\$25.57	per yd	\$3,682.08
Processing (Grader and Roller)	144	yds at	\$1.50	per yd	\$216.00

Points: I to J Length: 700'

4"-0" Rock (3.0 hr RT)	234	yds at	\$25.57	per yd	\$5,983.38
2 1/2"-0" Rock (3.0 hr RT)	234	yds at	\$25.57	per yd	\$5,983.38
Processing (Grader and Roller)	234	yds at	\$1.50	per yd	\$351.00

Points: Landings at F, H, J, P and Q

Rock Type: Jaw Run
Amount: 54 yds/landing

Jaw Run Rock (3.0 hr RT)	270	yds at	\$25.57	per yd	\$6,903.90
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Move-in

Equipment	Miles	hrs	Lowboy Rate/hr	Total
Grader	35	4	\$95.00	\$380.00
Roller	35	4	\$95.00	\$380.00

Total Move-in \$760.00

Total Project 4B: \$93,889.00

Project 4 Total \$99,271.00

Total Project Costs \$142,098.00

Timber Sale Viability Analysis

District	Coos		AOP FY	2009	
Sale Name:	Millicoma Cougar			<i>Assumed Single Species</i>	
CC Acres:	89	MBF	5,817	MMBF/Ac.	63
				\$ 1,279,740	Stumpage/MBF
					\$ 220.00
PC Acres:	0	MBF	0	\$ -	\$ -
Totals	89		5,817	Gross Sale Value	\$ 1,279,740
Tier 0 - minus Project Costs				(minus)	\$ 142,000 11%
				Net Advertised Value	\$ 1,137,740

Fill in shaded fields.

SALE INVESTMENT COSTS

ODF 1/3 Value (36%)		\$ 409,586	\$ 409,586
		COSTS	Running Balance
Tier 1 - Planning Costs	<i>FIXED COSTS - NOT PART OF CURRENT ANALYSIS</i>	\$ -	\$ 409,586
Tier 2 - T&E Survey Costs			
NSO: \$16/acre/year X Ac X Yrs	No. Yrs.	\$ 1,424	\$ 408,162
Mamu: \$20/acre/year X Ac X Yrs		\$ 3,560	\$ 404,602
Tier 3 - T.S. Layout Costs			
6,000 MBF X \$6.00/MBF or	\$ 34,902	\$ 31,134	\$ 373,468
\$120/acre X # acres, whichever is greater	\$ 10,680		
Tier 4 - Contract Admin Costs	No. of Years	\$ 10,400	\$ 363,068
\$5,200/year x # yrs contract	2		
Tier 5 - Reforestation Costs (FTG)			
CC Ac X \$ 400.00 per acre		\$ 35,600	\$ 327,468
TOTALS FOR DISTRICT		COSTS	NET BALANCE
		\$ 82,118	\$ 327,468

FOR FUTURE DIVISIONAL ANALYSIS

Tier 6 - Administration Costs		
Tier 7 - Recreation Costs		
<i>(Apply only is rec. project associated with T.S.)</i>		
Tier 8 - Salem Operations Costs		
TOTALS FOR SF DIVISION		

TOTAL SALE TIMBER SALE COSTS	\$ 82,118
	\$ 922.67 per acre
	\$ 14.12 per MBF

Timber Sale Viability Analysis

District Coos

AOP FY 2009

Sale Name: Millicoma Cougar

Min Stumpage to Cover ODF Costs

ODF Cost per MBF	ODF Balance	Total Sale Stumpage
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ODF's 36% share
of Project Work \$ 51,120

Projects \$ 8.79 \$ 8.79 \$ 24.41

Planning \$ - \$ 8.79 \$ 24.41

T&E \$ 0.24 \$ 9.03 \$ 25.09

T&E \$ 0.61 \$ 9.64 \$ 26.79

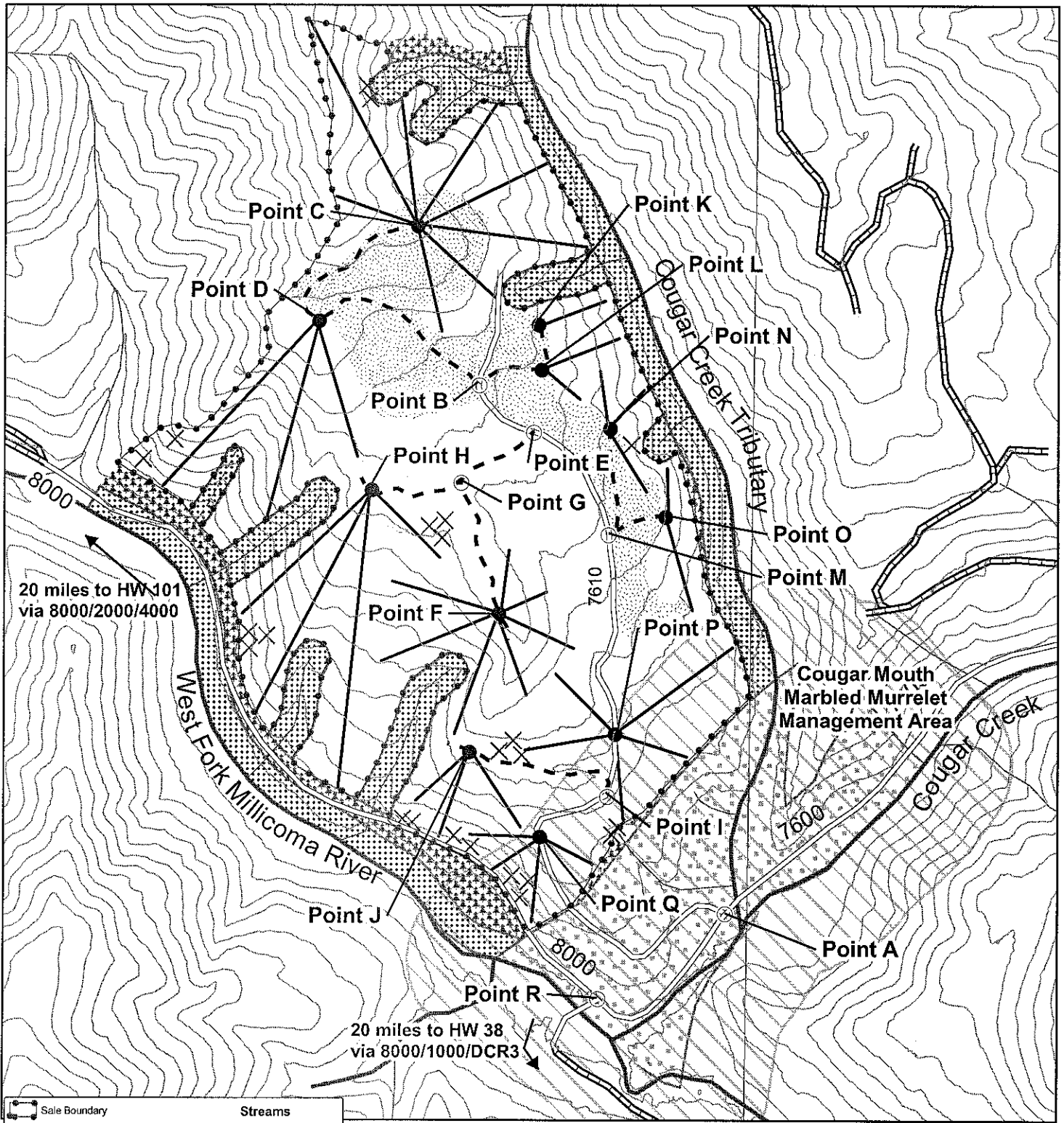
Layout \$ 5.35 \$ 15.00 \$ 41.66

Admin \$ 1.79 \$ 16.78 \$ 46.63

Refo \$ 6.12 \$ 22.90 \$ 63.63

\$ 22.90

\$ 63.63 Minimum Stumpage Price

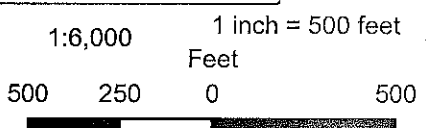


	Sale Boundary		Streams
	40' Contours		Type N
	Project Points		Seasonal
	Landing		GTR
	Road Point		Individual GTR
	Roads		RMA
	Purchaser Maintained		Ground Based
	State Maintained		
	Marbled Murrelet Management Area		
	Marbled Murrelet Seasonal Restricted Area		

LOGGING PLAN
OF TIMBER SALE NO.
341-10-29
MILLICOMA COUGAR
PORTIONS OF SECTION 8,
T23S, R10W, W.M.
COOS COUNTY, OREGON



Approximately 89 Net
Clearcut Acres



The information shown on this map depicts approximate locations. Exact locations of features represented by map symbols shall be determined on site and shall depend upon the conditions that exist on site. Activities will be conducted based upon features determined on site rather than features shown on this map.

fish log stockpile

Fish Log Stockpile

Volume to be taken from inside the Millicoma Cougar timber sale and yarded to the stockpile site at Point Q.

<u>Length</u>	<u>Scaling Diameter</u>	<u>Number of Logs</u>	<u>Vol/log</u>	<u>Total Vol</u>
60 feet	24"	12	1,990	23,880
60 feet	22"	12	1,720	20,640
60 feet	20"	12	1,460	17,520
				-
Total		36		62,040
62,040	less 10 percent defect and breakage =			55,836

56 mbf will be removed from the cruise

volume per log was calculated as follows:

60 foot log split into two 30 footers to calculate scale

Segment length	Scale dia	Segment vol.	Total volume
30	24"	760	
30	30"	1230	1990
30	22"	630	
30	28"	1090	1720
30	20"	520	
30	26"	940	1460

see Project Cost summary sheet for labor estimate

(g) VEHICLE WASHING FOR POC ROOT DISEASE and NOXIOUS WEEDS

Hourly rates and time estimates were obtained from Drip and Drizzle in Coquille, Or. on 8/05/09, (541) 396-5946
 Hot Water Pressure Washer: \$65.00/hr includes operator and transportation. 2 hour minimum and time is charged for only one way travel.

ASSUMPTION: Vehicles and equipment to be washed at area designated by D&D or at facilities provided by contracto

EQUIPMENT:	Equipment Estimates	No. hours	Hourly Rate	Total vehicle cost
log trucks	0	3	\$65.00	\$0.00
D7	0	6	\$65.00	\$0.00
Forwarder	0	2	\$65.00	\$0.00
Harvester	0	2	\$65.00	\$0.00
Yarder	0	10	\$65.00	\$0.00
Tracked log loader	1	6	\$65.00	\$390.00
Crew Vehicles	0	per vehicle	\$20.00	\$0.00
Low Boy	0	3	\$65.00	\$0.00
Grader	0	4	\$65.00	\$0.00
D8 w/ripper	0	6	\$65.00	\$0.00
Water Truck	0	3	\$65.00	\$0.00
backhoe/excavator*	0	4	\$65.00	\$0.00
Total Cost				\$390.00