



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Cost Summary Johnson Trout Thin Sale 341-04-28

District: Coos

Date: 7/9/03

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$37,597.16	\$891.65	\$38,488.81
		Project Work	(\$9,190.70)
		Advertised Value	\$29,298.11



Timber Sale Appraisal Timber Description Johnson Trout Thin Sale 341-04-28

"STEWARDSHIP IN FORESTRY"

District: Coos

Location: At the end of the 2195 Road approximately 6.5 miles up the 2000 Road.
T23S R11W Section 34, WM
Coos County, OR

Date: 7/9/03

Stand Stocking: 80%

Species	Avg. DBH	Amortized%	Recovery%
Douglas - Fir	12	0	95
Alder (Red)	12	0	90

Volume by Grade	Douglas - Fir	Alder (Red)	Total
2S	14	0	14
3S	142	0	142
4S	80	0	80
CR 12"	0	5	5
Total	236	5	241

Comments: Pond Values Used: 2nd Quarter 2003

68 acres of Automark Thinning



Timber Sale Appraisal Logging Conditions Johnson Trout Thin Sale 341-04-28

"STEWARDSHIP IN FORESTRY"

Combination#: 1	Douglas - Fir	100.00%	
	Alder (Red)	100.00%	
Yarding Distance:	Medium (800 ft)		Downhill Yarding: No
Logging System:	Cable: Small Tower <=40		Process: Manual Delimiting
Tree Size:	Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF		
Loads/Day:	3		Bd. Ft./Load: 3,700
Cost/MBF:	\$204.93		
Machines:			
	Log Loader (A)		
	Tower Yarder (Small)		



Timber Sale Appraisal Logging Costs Johnson Trout Thin Sale 341-04-28

"STEWARDSHIP IN FORESTRY"

Date: 7/9/03

Operating Seasons: 0.5

Profit & Risk: 16%

Project Costs: \$9,191

Other Costs (P/R): \$933

Slash Disposal: \$0

Other Costs: \$466

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

Road Maintenance: \$4.00

Hauling Costs

Species	\$/MBF	Trips/Day	MBF/Load
Douglas - Fir	\$0.00	3.0	3.5
Alder (Red)	\$0.00	3.0	2.5



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Logging Costs Breakdown Johnson Trout Thin Sale 341-04-28

Costs	Douglas - Fir	Alder (Red)
Logging	204.93	204.93
Road Maintenance	4.21	4.44
Fire Protection	5.62	5.62
Hauling	46.11	56.78
Other (P/R appl.)	3.87	3.87
Profit & Risk	42.36	44.10
Slash Disposal	0.00	0.00
Scaling	2.00	0.00
Other	1.93	1.93
Total	311.03	321.67

Amortization	0.00	0.00
Pond Value	470.34	500.00
Stumpage	159.31	178.33
Amortized	0.00	0.00



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Summary Johnson Trout Thin Sale 341-04-28

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	236.00	5.00
Value	159.31	178.33
Total	37,597.16	891.65

Gross Timber Sale Value

Recovery \$38,488.81

Prepared by: Chris Rudd

Date: 7/9/03

District: Coos

Phone: (541) 267-1756

Summary of "Other Costs" for Timber Sale Appraisals

Sale Name: Johnson Trout Thin

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		\$ 1.00	\$ -
Directional Felling for site protection	MBF		\$ 2.00	\$ -
				\$ -
Yarding and Loading				
Artificial guylines support	anchor		\$ 500.00	
Brand and paint logs	MBF	233	\$ 1.00	\$ 233.00
Loader time for firewood stacking	Landing	5	\$ 100.00	\$ 500.00
Rig intermediate supports	Support	4	\$ 50.00	\$ 200.00

Miscellaneous Costs

Maintenance rock per section 5	Cubic Yards		\$ 18.00	\$ -
Safety Flagging and/or signing	per day		\$ 150.00	\$ -

Total additional "Other Cost" with additional profit and risk to be added

\$ 933.00

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	233	\$ 2.00	\$ 466.00

Total additional "Other Cost" with no additional profit and Risk

\$ 466.00

**SUMMARY OF CONSTRUCTION COST
Johnson Trout Thin**

Project 1: Road and Landing Improvement

Points:	Type:	Length:
A to B	14' w/ditch	3588'
B to C	14' no ditch	1218'
D to E	14' no ditch	1015'
E to F	14' no ditch	500'

Clearing and Grubbing

Clear brush & trees at road edges (A to B)	<u>1</u>	acres at	<u>\$650.00</u>	\$ per acre =	<u>\$650.00</u>
Clear brush & trees at road edges (B to C)	<u>0.5</u>	acres at	<u>\$650.00</u>	\$ per acre =	<u>\$325.00</u>
Clear brush and trees in road prism (D to E)	<u>0.6</u>	acres at	<u>\$870.00</u>	\$ per acre =	<u>\$522.00</u>
Clear and Grub trees in road prism (E to F)	<u>0.4</u>	acres at	<u>\$870.00</u>	\$ per acre =	<u>\$348.00</u>

Total clearing and grubbing \$1,845.00

Excavation

Cat time for improvements (B to C)	<u>8</u>	hrs at	<u>\$95.00</u>	per hr	<u>\$760.00</u>
Cat time for improvements (D to E)	<u>8</u>	hrs at	<u>\$95.00</u>	per hr	<u>\$760.00</u>
Cat time for improvements (E to F)	<u>8</u>	hrs at	<u>\$95.00</u>	per hr	<u>\$760.00</u>
Excavator to remove slide and widen (A to B)	<u>5</u>	hrs at	<u>\$110.00</u>	per hr	<u>\$550.00</u>
Excavator to remove slide and widen (B to C)	<u>5</u>	hrs at	<u>\$110.00</u>	per hr	<u>\$550.00</u>
Excavator for approach at D, pick up slough	<u>10</u>	hrs at	<u>\$110.00</u>	per hr	<u>\$1,100.00</u>
Laborer	<u>25</u>	hrs at	<u>\$30.00</u>	per hr	<u>\$750.00</u>

Total Excavation \$5,230.00

Hauling

Haul slide material from A to B to Point G	<u>5</u>	hrs at	<u>\$55.00</u>	per hr	<u>\$275.00</u>
Haul slough material from D to E to Point B	<u>5</u>	hrs at	<u>\$55.00</u>	per hr	<u>\$275.00</u>

Total Excavation \$550.00

Grade Road Surface

Grader time for all spurs to Sale Area	<u>8</u>	hrs Grade @	<u>\$75.00</u>	per hour	<u>\$600.00</u>
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Total Grading \$600.00

Project 1 Cost \$8,225.00

Move-in

Equipment	Miles	Mileage Factor	Equipment Allowance	Total
Excavator	35	0.74	\$533.00	\$394.42
D7 Cat	35	0.74	\$387.00	\$286.38
Grader	35	0.74	\$241.00	\$178.34
Dump Truck	35	0.74	\$144.00	\$106.56

Total Move-in \$965.70

Total Project Cost \$9,190.70

TIMBER SALE SUMMARY

Johnson Trout Thin

1. **Type of sale:** Thinning, Recovery, Sealed Bid.
2. **Boundary Lines:** Timber sale boundaries have been partially marked. Most boundaries are easily identified by distinct forest type boundaries. To the south of the boundary the timber is significantly larger and to the north of the boundary the timber is significantly smaller. The west boundary is at the stream buffer shown on the Exhibit A. Buffer areas are delineated on the Exhibit A. Group selection areas are posted with yellow "area boundary" posters, flagging, and yellow paint. Road right-of-ways are marked with centerline stakes. Project points are marked with orange posters.
3. **Revenue Distribution:** 100% CSL, 100% Coos County.
4. **Sale Acreage:** Volumes were calculated on net acres excluding from the gross: non-operational areas, stream buffers, low density areas, and alder patches. The total sale area is 76 acres gross and 68 acres net. The acreage was determined from ortho-photography and measuring tools available in the ArcView geographic information system program.
5. **Volume by Species, Fund, and County:** See the attached table labeled "Net Volumes and Acreage"
6. **Grade by MBF Volume (Percent):**

Species	3 Peeler	Special Mill	2 Saw	3 Saw	4 Saw/Camp
Douglas-fir			14 (6%)	142 (60%)	80 (34%)
Hardwood	-----	-----	-----	-----	5 (100%)

7. **Cruise:** The sale was cruised in December 2002 by ODF foresters. Twenty plots were taken in the cruise. The cruise compilation was compiled in SuperAce and the acreage was determined with digital ortho-photography and a measuring tool in the ArcView GIS program.

A. Cruise Summary Data:

Diameter	Top Diameter	Form Point	Form Factor	SE %
D4H	Total Height	Conifer: 16' Hardwood: 4'	Estimated or measured on all trees	7%

B. Summary of Cut Trees:

Species	D4H	Trees per Acre	Basal Area (ft ² /ac)	MBF per acre
Douglas-fir	12.1	59	47	3
Group Selection Areas (4 ac.)	12.4	190	150	12
Hardwood	12	--	--	5 (Total HW)

8. **Timber Description:** The timber sale is stocked with 38 year-old second growth Douglas-fir. The average diameter of these stands is around 12 inches. Stocking varies throughout the stand. Only

areas that exceed the minimum basal area requirements will be thinned. A small amount of alder will be removed from the sale. Hemlock and cedar are reserved from cutting except in logging corridors and for safety reasons. There are two group selection areas that are approximately 2 acres each.

9. **Topography:** The sale area is mostly on steep and dissected slopes with benches throughout the stand. In general, group selection areas are on flatter ground.
10. **Logging Method:** The timber sale is an automark thinning. The entire sale will be cable logged uphill. The sale area will be accessible from the 2195 spur road. The logger is likely to need intermediate supports to reach the entire timber sale from the landings. Landing areas are limited and yarding distances are long. The logger will need 2000 feet of mainline to reach the entire sale.
11. **Access:** From Allegany, take the County road to the 2000 Road (Dean Mountain) to the 2195 Road approximately 7 miles up the 2000 road.

12. Projects:

Project No. 1: Road and Landing Improvement: See section 70 of the contract for the project point locations, the "Summary of Project Costs", and section 72 credit for project work. The total cost of project work will be credited as project work is completed.

NET VOLUMES AND ACREAGE

SALE AREA & SPECIES		Tree cnt. 100% Units	NET VOLUMES (MBF)							Total Vols.	Vol. per Acre
			By County and Fund								
Area	Spec	Coos			Douglas			Total Vols.	Vol. per Acre		
		CSL	BOF	Total	CSL	BOF	Total				
I	D-fir	236		236			0	236	3.3		
	Hem			0			0	0			
	Cedar			0			0	0			
	Hdwd	5		5			0	5			
TOTALS		241	0	241	0	0	0	241			

TOTAL SALE VOLUME BY SPECIES

Douglas-fir 236 MBF
 Hemlock 0 MBF
 RedCedar 0 MBF
 Hardwoods 5 MBF

Report by: Johnson Trout Thin
 Date: 03/28/2003
 Unit For. _____
 Date _____

Asst. Dist. For. *Doug Kreimayer* 3/29/2003
 Date _____

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

ACREAGE BY COUNTY (to nearest acre)

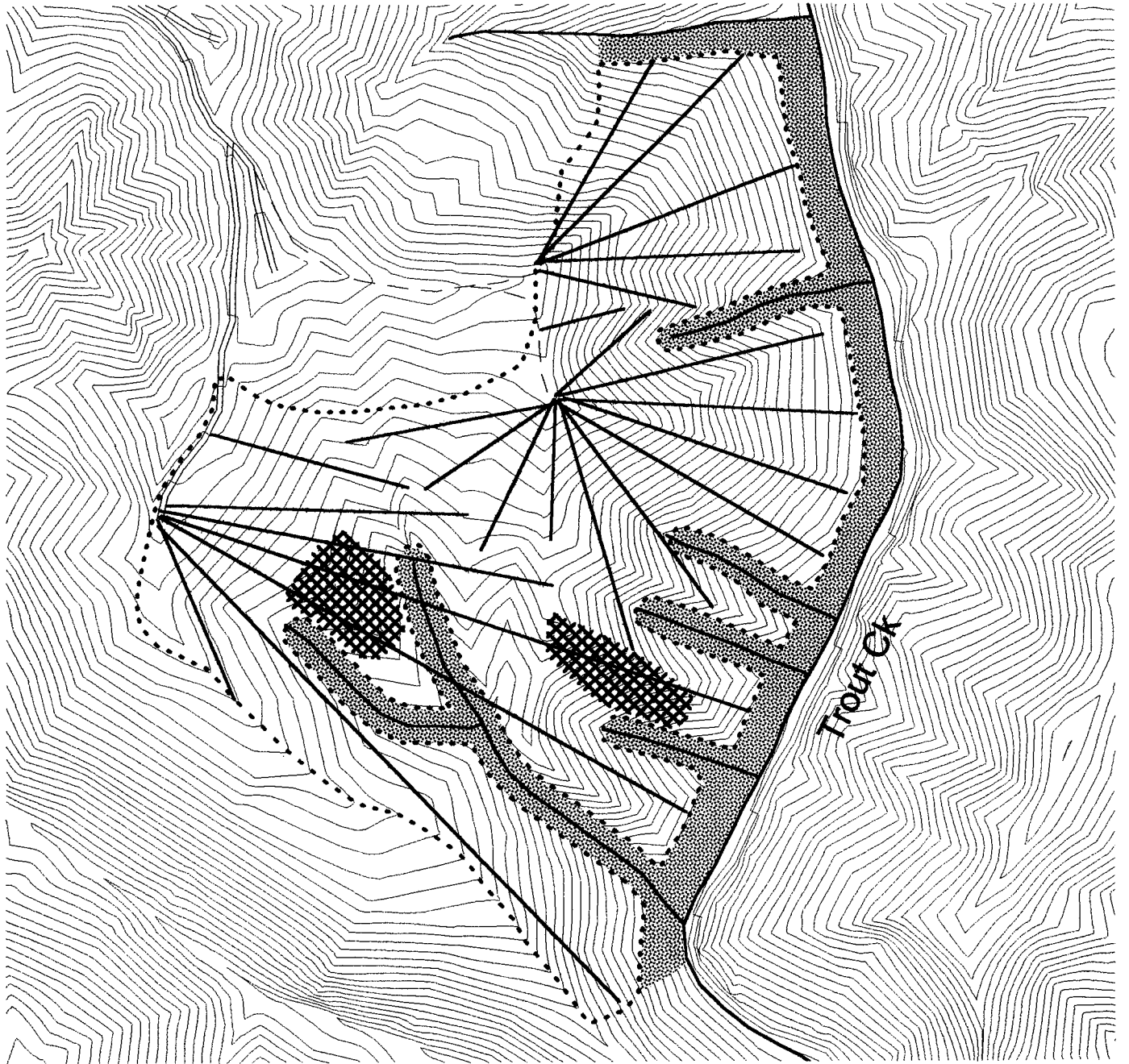
Sale Area	Coos County						Douglas County						TOTAL ACRES
	CSL			BOF			CSL			BOF			
	Conifer cc	Conifer pc	Hard wood	Conifer cc	Conifer pc	Hard woods	Conifer cc	Conifer pc	Hard woods	Conifer cc	Conifer pc	Hard woods	
I		68											68
SUM	0	68	0	0	0	0	0	0	0	0	0	0	68

cc- clearcut

pc- partial cut

BOF - Board of Forestry

CSL - Common School Land



-  Logging Corridors
-  Sale Boundary
-  Group Selection Areas
-  Streams
-  Stream Buffer
- Roads**
-  Contractor Maintained
-  State Maintained
-  Road Improvement
-  Sections
-  Contours 20 Foot

Exhibit "A" Logging Plan

of Timber Sale Contract No. 341-04-28
Johnson Trout Thin
Portions of Section 34, T23S R11W, W.M.
Coos County, Oregon 100% CSL
76 Acres Gross, 68 Acres Net



WRITTEN PLAN

SALE NAME: Johnson Trout Thin

LOCATION: Portions of Section 34, T23S R11W WM, Coos County, Or.

LANDOWNER: Oregon Department of Forestry; 63612 Fifth Rd, Coos Bay, Or.

CONTRACT PURCHASER: _____

NOTIFICATION NO: _____

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This written plan is prepared to comply with the requirements for a written plan as provided for by the Forest Practices Act (OAR 629-605-0170 section 1A and 629-635-0130 section 1A). This plan outlines the measures to be taken to comply with the Forest Practices Act Type F stream protection requirements. The affected resource is Trout Creek, a medium Type F stream, located adjacent to the timber sale area.

SITUATION Trout Creek is a medium Type F stream near the Johnson Trout Thin timber sale. The contractor must leave a 100 foot buffer as shown on "Exhibit A" to protect the resource. During yarding, if cables are strung over the RMA, care must be taken to minimize damage to the vegetation in the RMA. Protection measures required by the Forest Practices Act for the RMA are provided for in the sale contract. These measures are as follows:

FELLING AND BUCKING

1. Do not fell any trees or snags within the RMA boundaries as shown on Exhibit A.
2. Fell trees parallel to or away from the RMA so as to minimize their potential of entering the RMA or damaging RMA vegetation.

YARDING

1. Operator will use a machine capable of fully suspending logs.
2. When cables pass through or over the buffer strip shown on the contract Exhibit "A", protect the residual timber as follows:
 - a. Pull cables out of the residual timber prior to rigging the next yarding road.
 - b. Do not lower the skyline into the buffer during the yarding cycle.
 - c. Yarding roads shall be a minimum of 100 feet apart where they extend over or through the RMA.

O.D.F. REPRESENTATIVE Date

PURCHASER REPRESENTATIVE Date

OPERATOR REPRESENTATIVE Date

APPROVED BY: _____ DATE: _____

TITLE