



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Cost Summary Totten Creek Sale 341-03-12

District: Coos

Date: 9/4/02

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$365,284.96	\$43,471.20	\$408,756.16
		Project Work	(\$26,162.58)
		Advertised Value	\$382,593.58



Timber Sale Appraisal Timber Description Totten Creek Sale 341-03-12

"STEWARDSHIP IN FORESTRY"

District: Coos

Location: T24S, R11W Section 7

Date: 9/4/02

Stand Stocking: 60%

Species	Avg. DBH	Amortized %	Recovery %
Douglas - Fir	25	0	95
Western Hemlock / Fir	28	0	95
Alder (Red)	15	0	90

Volume by Grade	Douglas - Fir	Western Hemlock / Fir	Alder (Red)	Total
3P	12	0	0	12
SM	36	0	0	36
2S	541	0	0	541
3S	227	0	0	227
Camprun	0	4	240	244
Total	816	4	240	1,060

Comments: Pond Values Used: 2nd Quarter 2002



Timber Sale Appraisal Logging Conditions Totten Creek Sale 341-03-12

"STEWARDSHIP IN FORESTRY"

Combination#: 1 Douglas - Fir 100.00%
Western Hemlock / Fir 100.00%

Yarding Distance: Medium (800 ft) **Downhill Yarding:** No
Logging System: Cable: Medium Tower >40 - <70 **Process:** Manual Delimiting
Tree Size: Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF
Loads/Day: 14 **Bd. Ft./Load:** 4,500
Cost/MBF: \$52.64

Machines:
Log Loader (A)
Tower Yarder (Medium)

Combination#: 2 Alder (Red) 100.00%

Yarding Distance: Short (400 ft) **Downhill Yarding:** No
Logging System: Cable: Small Tower <=40 **Process:** Manual Delimiting
Tree Size: Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF
Loads/Day: 3 **Bd. Ft./Load:** 3,500
Cost/MBF: \$245.53

Machines:
Log Loader (A)
Tower Yarder (Small)



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal

Logging Costs

Totten Creek

Sale 341-03-12

Date: 9/4/02

Operating Seasons: 0.8

Profit & Risk: 15%

Project Costs: \$26,163

Other Costs (P/R): \$5,220

Slash Disposal: \$0

Other Costs: \$0

Road Maintenance: \$0.00

Miles of Road			
Dirt	Rock (Contractor)	Rock (State)	Paved
0.5	0.5	0.0	0.0

Hauling Costs

Species	\$/MBF	Trips/Day	MBF/Load
Douglas - Fir	\$0.00	3.0	4.5
Western Hemlock / Fir	\$0.00	3.0	4.5
Alder (Red)	\$0.00	3.0	3.5



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Logging Costs Breakdown Totten Creek Sale 341-03-12

Costs	Douglas - Fir	Western Hemlock / Fir	Alder (Red)
Logging	52.64	52.64	245.53
Road Maintenance	0.43	0.43	0.46
Fire Protection	2.05	2.05	2.05
Hauling	35.89	35.89	48.67
Other (P/R appl.)	4.92	4.92	4.92
Profit & Risk	14.39	14.39	45.24
Slash Disposal	0.00	0.00	0.00
Scaling	2.00	2.00	2.00
Other	0.00	0.00	0.00
Total	112.32	112.32	348.87

Amortization	0.00	0.00	0.00
Pond Value	558.71	370.00	530.00
Stumpage	446.39	257.68	181.13
Amortized	0.00	0.00	0.00



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Summary Totten Creek Sale 341-03-12

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	816.00	4.00	240.00
Value	446.39	257.68	181.13
Total	364,254.24	1,030.72	43,471.20

Gross Timber Sale Value

Recovery \$408,756.16

Prepared by: Norma Kline

Date: 9/4/02

District: Coos

Phone: (541) 267-1758

Summary of "Other Costs" for Timber Sale Appraisals

Sale Name: TOTTEN CREEK

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				
Directional Felling	MBF	500	\$ 2.00	\$ 1,000.00
Yarding and Loading				
Brand and paint logs	MBF	1060	\$ 2.00	\$ 2,120.00
Loader time for firewood stacking	Hours	4	\$ 75.00	\$ 300.00
Tree Topping				
	tree	18	\$ 100.00	\$ 1,800.00
Total additional "Other Cost" with additional profit and risk to be added				\$ 5,220

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-rquired road rocking	Cubic Yards			\$ -
Stream clearance	Feet			\$ -
Scaling (high piece count)	MBF		\$ 1.00	\$ -
Total additional "Other Cost" with no additional profit and Risk				\$ -

SUMMARY OF CONSTRUCTION COST
Totten Creek

Project No. 1a: Road Construction

Points: A to B
Length: 1288'
Type: 14' width, no ditch

Clearing and Grubbing

1.1 acres at \$690.00 \$ per acre = \$759.00

Total clearing and grubbing \$759.00

Excavation

Cat excavation (D8, 2098 cu yds)	<u>16</u>	hrs at	<u>\$125.00</u>	per hr	<u>\$2,000.00</u>
Excavator (1398 cu yds)	<u>15</u>	hrs at	<u>\$110.00</u>	per hr	<u>\$1,650.00</u>
Laborer	<u>24</u>	hrs at	<u>\$30.00</u>	per hr	<u>\$720.00</u>

Total Excavation \$4,370.00

Hauling

Haul material to front of A to B for fill	<u>16</u>	hrs at	<u>\$60.00</u>	per hr	<u>\$960.00</u>
Haul material to point C for fill	<u>5</u>	hrs at	<u>\$61.00</u>	per hr	<u>\$305.00</u>

Total Hauling \$1,265.00

Grade Road Surface

2 hrs Grade @ \$75.00 per hour \$150.00

Total Grading \$150.00

Project 1a Cost \$6,544.00

Project No. 1b: Road Construction

Points: C to D
Length: 365'
Type: 14' width, no ditch

Clearing and Grubbing

0.3 acres at \$790.00 \$ per acre = \$237.00

Total clearing and grubbing \$237.00

Excavation

Cat excavation (525 cu yds)	<u>6</u>	hrs at	<u>\$125.00</u>	per hr	<u>\$750.00</u>
Cat time to shape fill material (243 cu yds)	<u>3</u>	hrs at	<u>\$125.00</u>	per hr	<u>\$375.00</u>
Laborer	<u>10</u>	hrs at	<u>\$30.00</u>	per hr	<u>\$300.00</u>

Total Excavation \$1,425.00

**SUMMARY OF CONSTRUCTION COST
Totten Creek**

Move-in

Equipment	Miles	Mileage Factor	Equipment Allowance	Total
Excavator	25	0.58	\$533.00	\$309.14
D8 Cat	25	0.58	\$533.00	\$309.14
Grader	25	0.58	\$241.00	\$139.78
Dump Truck	25	0.58	\$144.00	\$83.52

Total Move-in \$841.58

Grade Road Surface

1 hrs Grade @ \$75.00 per hour \$75.00

Total Grading \$75.00

Project 1b Cost \$2,578.58

Project 1 Cost \$9,122.58

Project No. 2: Dry Lake Stockpile

Location: 10.5 mile on 2000 Rd
 Measured amount: 1000 cubic yards
 Delivered amount: 1200 cubic yards (20% expansion)
 Size: 1 1/2" - 0"

Cost per cubic yard at crusher:	\$7.00	per cu yd
Haul cost per cubic yard (2.0 hr. RT):	\$6.67	per cu yd
Piling and shaping cost per cubic yard:	<u>\$0.53</u>	per cu yd

Total cost per cubic yard:	\$14.20	per cu yd
Total cubic yards:	1200	cubic yards

Total Cost for Stockpile rock: \$17,040.00

Project 2 cost \$17,040.00

Total Project Costs \$26,162.58

TIMBER SALE SUMMARY

TOTTEN CREEK

- 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 paint, and red flagging at locations shown on the Exhibit "A".
- 3. Revenue Distribution:** This sale is 100% on CSL fund lands in Coos County.
- 4. Sale Acreage:** The sale acreage is 36 acres. The acreage for the timber sale area was determined using orthophoto imagery on the ARCVIEW Geographic Information System program.
- 5. Volume by Species, Fund, and County:** See attached table.

6. Grade (by percent):

Species	3 Peeler	Special Mill	2 Saw	3 Saw	4 Saw/Camp	Utility
Douglas-fir	2%	4%	66%	28%	---	----
Hardwood	----	----	----	----	100%	----

- 7. Cruise:** The sale area was variable plot cruised using the Big BAF cruise design. The sale was stratified into two strata to reduce the variability for cruising. The Douglas fir strata had 54 nested plots. Each plot consists of both a full 20 BAF count plot and a full 250 BAF measure plot. The 20 BAF count plot was used to tally the number of trees by species to determine the stand basal area. The 250 BAF plot was used to obtain height, grade and defect on Douglas-fir. 36 Big BAF trees were cruised at form point for diameter, height, grade and defect. The red alder strata had 25 nested plots, it used the same format as for Douglas-fir, with the exception that the 250 BAF plot was used to obtain height, grade and defect on red alder. 15 Big BAF red alder trees were cruised..

A. Cruise Summary Data:

Diameter	Top Diameter	Form Point	Form Factor	Top Cr Dia.	CV %	SE %
D4H	6" or 25% DBH	Conifer: 16' Hardwood: 4'	Estimated or measured on all trees	Con:6",25% Hdwd:5"	50	8

B. Stand Summary:

Unit I and II Variable Plot Cruise

Species	D4H	Trees per Acre	Basal Area (ft ² /ac)	MBF per acre
Douglas-fir	25	37	125	22
Hardwood	15	55	70	7

- C. Green Tree Retention: 78 individually marked Green trees were distributed within the timber sale, their volume, as shown in the following table, was deducted from the total cruise volume. The remainder was designated by posting outside of the timber sale boundary.

Unit I	Douglas-fir	Hemlock	Cedar	Red Alder	B. L. Maple
Tree Count	78	0	0	0	0
Volume (MBF)	143	0	0	0	0

- D. Minor Species: Minor species were left as reserve trees on both units. The following table summarizes their approximate volume from the variable plot cruise reports.

Units I and II	Hemlock
Tree Count	31
Average Diameter	16
Volume MBF	.2

8. Timber Description: The timber in this sale area is separated into two strata. The Douglas-fir strata consists of moderately stocked second-growth Douglas-fir approximately 120 years old. The red alder strata consists of well stocked red alder approximately 50 years old.

9. Topography: Unit I has a series of moderately sloped benches with slopes ranging between 30 to 50%. Unit II has steep, dissected slopes over 65%.

10. Logging Method: The sale will be cable logged uphill with single-end suspension required on most of the unit with full suspension required over designated streams. A motorized carriage may be required to obtain the necessary suspension. Artificial guyline anchors may need to be installed for yarding portions of the sale area as approved in the operations plan

11. Access: From Coos Bay, proceed to North Bay Drive, proceed 2.3 miles to Larson Way, proceed 3.7 miles to the 3000 road, proceed 7 miles up the 3000 road to the sale area.

12. Projects:

Project No. 1: Road Construction

Project No. 2: Rock Stockpile

NET VOLUMES AND ACREAGE
TOTTEN CREEK

SALE AREA & SPECIES		Tree cnt. 100% Units	NET VOLUMES (MBF)							Vol. per Acre
Area	Spec		By County and Fund							
			Coos			Douglas				
		CSL	BOF	Total	CSL	BOF	Total	Total Vols.		
I	D-fir	719		719			0	719	22	
	Hem.	4		4				4	<1	
	Hdwd	226		226			0	226	7	
II	D-fir	97		97			0	97	32	
	Hdwd	14		14			0	14	5	
TOTALS		1060	0	1060	0	0	0	1060		

TOTAL SALE VOLUME BY SPECIES

Douglas-fir	<u>816</u>	MBF
Hemlock	<u>4</u>	MBF
RedCedar	<u>0</u>	MBF
Hardwoods	<u>240</u>	MBF

Report by: Norma Kline

Date: 5/31/2002

Unit For. Alan P. Thayer 5/31/02
Date

Asst. Dist. For. Gregory J. Krueger 5/31/02
Date

**UTILITY AND SPECIAL CULL VOLUME NOT INCLUDED 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		
I	33												33
II	3												3
SUM	36	0	0	0	0	0	0	0	0	0	0	0	36

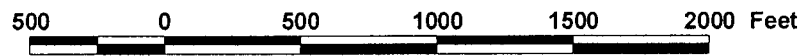
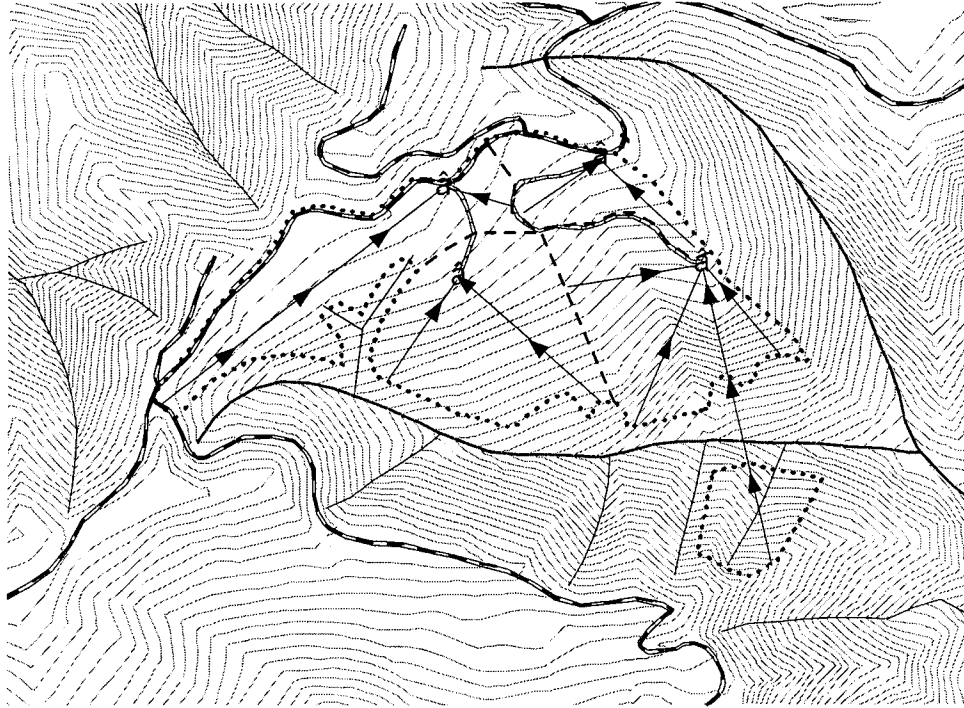
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







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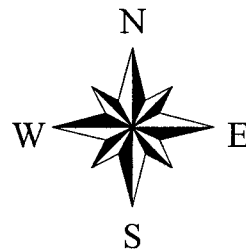
BOF - Board of Forestry

CSL - Common School Land

Totten Creek Logging Plan



-  Setting boundaries.shp
-  Landings.shp
-  Draws
-  2411.shp
-  Tottenbounddots.shp
-  Totten streams.shp
-  Totten roads.shp
-  New construction.shp



WRITTEN PLAN

SALE NAME: Totten Creek

LOCATION: Portions of S1/2 of Section 7, T24S R11W, Coos County, Oregon

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

CONTRACT PURCHASER: _____

NOTIFICATION NO: _____

FILE: I:\Timber Sales\FPAPLANS\Totten Creek FPA.doc

SITUATION AND PROTECTED RESOURCE

The Totten Creek timber sale contains a high risk sites near Totten Creek, a small type F stream. Most slopes within the sale area are moderate excepting for the slopes in the small unit II and in a small portion of Area I as shown on the contract Exhibit A This sale is within the Tyee Core Area.

LAYOUT

Landing locations have been located to enable best possible deflection for suspension of logs while yarding the sale area.

FELLING AND BUCKING

1. Trees shall be directionally felled parallel to or away stream riparian management areas (RMA's) as feasible.
2. High stumps shall be left as needed to minimize accumulation of logs in stream channels in or adjacent to stream headwall areas.
3. Do not fell any trees or snags within the posted RMA boundaries.
4. Do not fell timber between October 1 and April 1 annually unless approved by STATE because of dry weather conditions.

YARDING

1. Operator will use a machine and logging system capable of fully suspending logs.
2. Operator will fully suspend logs when yarding within the high risk site areas where sufficient deflection is available. Otherwise, single end suspension of the logs is required.
3. Do not yard timber between October 15 and April 15 annually unless approved by STATE because of dry weather conditions.
4. No tractor yarding is permitted in high risk areas.

ROAD CONSTRUCTION: No road construction is permitted in high risk site areas.

OPERATIONS PLAN

1. Purchaser shall attach a yarding plan indicating landing locations, machinery and procedures to be used obtain adequate suspension in the sale area and to minimize impacts during the felling process.

O.D.F. REPRESENTATIVE DATE: _____

PURCHASER REPRESENTATIVE DATE: _____

OPERATOR REPRESENTATIVE (if listed on notification) DATE: _____

APPROVED BY: _____ DATE: _____
FOREST PRACTICES FORESTER