"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Cost Summary
Summit Creek Thin
Sale 341-02-04

District: Tillamook **Date:** 5/10/01

	Conifer	Hardwood	Total
Gross Timber Sale Value	$224,007.84	$0.00	$224,007.84
		Project Work	$0.00
		Advertised Value	$224,007.84

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Timber Description
Summit Creek Thin
Sale 341-02-04

District: Tillamook

Location: Portions of Section 1, T3S, R8W, & Section 6, T3S, R7W, W.M., Tillamook County, OR

Date: 5/10/01 **Stand Stocking:** 20%

Species	Avg. DBH	Amortized%	Recovery%
Douglas - Fir	12	0	90

Volume by Grade	Douglas - Fir	Total
2S	64	64
3S	1,022	1,022
4S	192	192
Total	1,278	1,278

Comments: Pond Values Used: 1st Quarter 2001

NON-PROJECT ROADS

Road Improvement $195/station
Road Construction $195/station

Spur 1
18 Stations - Road Improvement - $3,510
25 Stations - Road Construction - $4,875
Spur 2
19 Stations - Road Improvement - $3,705
27 Stations - Road Construction - $5,265
Spur 3
27 Stations - Road Construction - $5,265
Spur 4
6 Stations - Road Improvement - $1,170
Summit Creek Road - Minor Road Improvement
5 Stations @ $100/Station = $500

Total - $24,290

SURFACING
Spurs 1 - 6
30 YDS/Station X 122 Stations = 3,660 Yards of Pit-Run
Summit Creek Road
10 YDS/Station X 105 Stations = 1,050 Yards of Pit-Run

4,710 YDS @ $6.00*/YD = $28,260

TOTAL NON-PROJECT ROAD COST - $52,050

*11 miles, round-trip, to Pit-Run Source

BLM Road Use Fee
$11.54/MBF X 1,211 = $13,975
Grand Total: $66,025

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Logging Conditions
Summit Creek Thin
Sale 341-02-04

Combination#: 1 Douglas - Fir 75.00%

Yarding Distance: Medium (800 ft) **Downhill Yarding** No

Logging System: Cable: Medium Tower >40 - <70 **Process:** Manual Delimbing

Tree Size: Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF

Loads/Day: 7 **Bd. Ft./Load:** 3,500

Cost/MBF: $182.23

Machines:

Log Loader (A)

Tower Yarder (Medium)

Combination#: 2 Douglas - Fir 25.00%

Yarding Distance: Short (400 ft) **Downhill Yarding** No

Logging System: Wheel Skidder **Process:** Feller Buncher

Tree Size: Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF

Loads/Day: 8 **Bd. Ft./Load:** 3,500

Cost/MBF: $149.74

Machines:

Feller Buncher w/ Delimber

Log Loader (B)

Stroke Delimber (B)

Tire Skidder

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Logging Costs
Summit Creek Thin
Sale 341-02-04

Date: 5/10/01

Operating Seasons: 1.0

Profit & Risk: 15%

Project Costs: $0

Other Costs (P/R): $0

Slash Disposal: $0

Other Costs: $66,025

Road Maintenance: $0.00

Miles of Road			
Dirt	Rock (Contractor)	Rock (State)	Paved
0.0	0.0	4.0	0.0

Hauling Costs

Species	$/MBF	Trips/Day	MBF/Load
Douglas - Fir	$0.00	3.0	3.5

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Logging Costs Breakdown
Summit Creek Thin
Sale 341-02-04

Costs	Douglas - Fir
Logging	174.11
Road Maintenance	1.87
Fire Protection	2.12
Hauling	48.67
Other (P/R appl.)	0.00
Profit & Risk	34.02
Slash Disposal	0.00
Scaling	2.00
Other	51.66
Total	314.45

Amortization	0.00
Pond Value	489.73
Stumpage	175.28
Amortized	0.00

"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Summary
Summit Creek Thin
Sale 341-02-04

Amortized

	Douglas - Fir
MBF	0.00
Value	0.00
Total	0.00

Unamortized

	Douglas - Fir
MBF	1,278.00
Value	175.28
Total	224,007.84

Gross Timber Sale Value

Recovery $224,007.84

Prepared by: Timothy Lieske Date: 5/10/01

District: Tillamook Phone: (503) 842-2545

"STEWARDSHIP IN FORESTRY"

OREGON DEPARTMENT OF FORESTRY
CRUISE REPORT

Summit Creek Thin

1. **Type of Sale**: Thinning with three group selection areas. – Recovery

2. **Legal Description**: Portions of Section 1, T3S, R8W, and portions of Section 6, T3S, R7W, W.M., Tillamook County, Oregon.

3. **Sale Acreage**: The sale boundaries were plotted on a digital orthophotograph and the acreage was calculated with GIS.

	Gross	Net Thinning*	Clearcut
Area I	180	161	0
Area II	5	0	5
Area III	5	0	5
Area IV	8	0	8
Total	198	161	18

*Deductions from total acreage have been made for areas with less than the minimum basal area required in the contract thinning specifications, hardwood types, and existing roads.

4. **Cruising Procedures**:

   A. **Cruising Method**: A total of 48 basal area plots were measured in representative portions of the sale area, to develop a stand table for the conifer volume computations.
   B. **Plot Size**: A basal area factor of 20 was used. The point of conifer tree observation was at 4.5 feet.
   C. **Diameter Standards**: All conifer diameters were measured at a height of 4.5 feet to the nearest 1". Diameters under 8" were not recorded.
   D. **Grading System:** Conifers were not graded during the cruise. Assignment of grades was based on results from previous cruises in similar size timber.

5. **Computation Procedures**: Basal area and density information was calculated from plot data taken. On Area I, the residual basal area for the sale is to be within the range of 120 to 140 square feet per acre. For computation purposes the sale volume was calculated using a residual basal area of 120 square feet. On Areas II, III, and IV, Douglas fir volume calculation was based on removal of all the basal area. V-BAR (Volume-Basal Area Ratio) for the take trees was computed using information from prior cruises in stands of similar age and site class (see attached Volume Computation Summary).

6. **Defect and Breakage**: A 5% reduction was applied to the cruise volume for defect and breakage. .

7. **Timber Description**: The sale areas burned in 1939 and in the 1951 North Fork fire. The majority of the timber on the sale is the result of planting in 1965 and was precommercially thinned in 1990. The current average and expected stand characteristics for the sale are shown in the attached stand tables.

8. **Cruiser Names / Dates:** Tim Lieske & Ed Keith. February, 2001.

9. **Revenue Distribution**:
100% FDF
Tax Code: 8
Deed No. 295
100% Rehabilitation Obligated

10. **Attachments**:
- Stand Table
- Volume Computation Summary
- Logging Plan/Thinning Acres

"STEWARDSHIP IN FORESTRY"

Summit Creek Thin

Volume Summary

Area I						
			161 acres			
SPECIES	Basal Area Per Acre	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	82	80	6.6	1056	5%	1003

Area II						
			5 acres			
SPECIES	Basal Area Per Acre	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	201	80	16.1	80	5%	76

Area III						
			5 acres			
SPECIES	Basal Area Per Acre	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	201	80	16.1	80	5%	76

Area IV						
			8 acres			
SPECIES	Basal Area Per Acre	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	201	80	16.1	129	5%	122

TOTAL SALE VOLUME			
SPECIES	MBF		Net Vol. (MBF)
Douglas-fir	1346		1278

STAND TABLE

20 BAF Wedge

Summit Cr. Thin
Expected Stand - 120 BA
Recon plots

DBH	T - Trees	L - Trees	No. Plots	Tk trs/acre	Lv trs/acre	Trees/acre
8"	21	1	48	24.9	1.2	26.1
9"	10	0	48	9.6	0.0	9.6
10"	60	9	48	46.3	6.9	53.2
11"	46	22	48	28.8	13.8	42.5
12"	53	92	48	28.7	49.8	78.5
14"	5	85	48	2.0	33.6	35.6
16"	1	46	48	0.3	13.4	13.7
18"	0	14	48	0.0	3.2	3.2
20"	0	7	48	0.0	1.3	1.3
22"	0	7	48	0.0	1.2	1.2
24"	0	4	48	0.0	0.5	0.5
26"	0	0	48	0.0	0.0	0.0
28"	0	0	48	0.0	0.0	0.0
30"	0	0	48	0.0	0.0	0.0
32"	0	0	48	0.0	0.0	0.0
34"		0	48	0.0	0.0	0.0
36"			48	0.0	0.0	0.0
38"		0	48	0.0	0.0	0.0
40"		0	48	0.0	0.0	0.0

Trees/plt	10.1	Trees/ac	265
Tk trs/plt	4.1	Tk trs/ac	141
Lv trs/plt	6.0	Lv trs/ac	125

BA(acre)	201		Current Ave Stand Diameter	11.8
BA(tree)	0.76		Take trees - QM Diameter	10.3
	Tk BA/ac	82	Leave Stand - QM Diameter	13.2
	Lv BA/ac	120		

Relative Density	59
Relative Den. - Leave	33

All plots

Summit Creek Thin

Logging Plan