



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Cost Summary Hughey Green Sale 341-02-08

District: Tillamook

Date: 7/3/01

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$190,105.71	\$0.00	\$190,105.71
		Project Work	\$0.00
		Advertised Value	\$190,105.71



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Timber Description Hughey Green Sale 341-02-08

District: Tillamook

Location: Sections 19, and 20, T1S, R8W, and Section 25, T1S, R9W, W.M., Tillamook County, Oregon

Date: 7/3/01

Stand Stocking: 20%

Species	Avg. DBH	Amortized%	Recovery%
Douglas - Fir	12	0	95
Western Hemlock / Fir	13	0	95
Sitka Spruce	13	0	95

Volume by Grade	Douglas - Fir	Western Hemlock / Fir	Sitka Spruce	Total
2S	12	0	0	12
3S	453	447	74	974
4S	123	112	25	260
Total	588	559	99	1,246

Comments: Pond Values Used: 2nd Quarter 2001 + Local Pond Values

Additional costs with P&R to be added:

snag creation: $\$30/\text{snag} \times 25 \text{ snags} = \750

guylines(deadman)w/backhoe: $\$80 \text{ per deadman} \times 30 \text{ deadmen} = \$2,400$

Total: \$3,150

Additional costs with P&R already included:

non-project roads - machine work

road #1 - improve 21 stations $\times \$130/\text{station} = \$2,730$

road #2 - improve 18 stations $\times \$130/\text{station} = \$2,340$

Area IV landing construction -8 hrs $\times \$130/\text{hr} = \$1,054$

rock for roads #1&2 - 1755 cubic yds $\times \$5/\text{cy} = \$8,775$

pit run rock from sources shown on Exhibit "A".

BLM rock replacement fee - 1,245 MBF $\times \$0.84 \text{ per MBF} = \$1,046$

TOTAL \$15,931

Road Maintenance: grading $\$500/\text{mile} \times 1.1\text{mmbf} \times 5 \text{ miles} = \2.33

surfacing $\$5/\text{cy} \times 1.1\text{mmbf} \times 5 \text{ miles} \times 50\text{cy} = \1.17

Total = \$3.50

Local pond value:

Hardwood pond value of \$400/mbf was obtained in April 2001 from Northwest Hardwoods.



Timber Sale Appraisal

Logging Conditions

Hughey Green

Sale 341-02-08

"STEWARDSHIP IN FORESTRY"

Combination#: 1	Douglas - Fir	20.00%	
	Western Hemlock / Fir	5.00%	
Yarding Distance:	Short (400 ft)		Downhill Yarding Yes
Logging System:	Track Skidder		Process: Manual Falling/Delimiting
Tree Size:	Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF		
Loads/Day:	8		Bd. Ft./Load: 3,500
Cost/MBF:	\$155.50		
Machines:			
	Log Loader (B)		
	Track Skidder		
Combination#: 2	Douglas - Fir	80.00%	
	Western Hemlock / Fir	95.00%	
	Sitka Spruce	100.00%	
Yarding Distance:	Short (400 ft)		Downhill Yarding Yes
Logging System:	Cable: Medium Tower >40 - <70		Process: Manual Delimiting
Tree Size:	Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF		
Loads/Day:	7		Bd. Ft./Load: 3,500
Cost/MBF:	\$169.21		
Machines:			
	Log Loader (A)		
	Tower Yarder (Medium)		



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal

Logging Costs

Hughey Green

Sale 341-02-08

Date: 7/3/01

Operating Seasons: 2.0

Profit & Risk: 15%

Project Costs: \$0

Other Costs (P/R): \$3,150

Slash Disposal: \$0

Other Costs: \$15,931

Road Maintenance: \$3.50

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	3.0	3.0
Western Hemlock / Fir	\$0.00	4.0	3.5
Sitka Spruce	\$0.00	3.0	3.0

Local Pond Values

Date	Species	Grade	Value
7/3/01	Sitka Spruce	3S	\$335.00
7/3/01	Sitka Spruce	4S	\$305.00



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Logging Costs Breakdown Hughey Green Sale 341-02-08

Costs	Douglas - Fir	Western Hemlock / Fir	Sitka Spruce
Logging	166.47	168.52	169.21
Road Maintenance	3.68	3.68	3.68
Fire Protection	4.35	4.35	4.35
Hauling	53.79	34.58	53.79
Other (P/R appl.)	2.53	2.53	2.53
Profit & Risk	34.62	32.05	35.03
Slash Disposal	0.00	0.00	0.00
Scaling	2.00	2.00	2.00
Other	12.79	12.79	12.79
Total	280.23	260.50	283.38

Amortization	0.00	0.00	0.00
Pond Value	528.16	331.99	327.42
Stumpage	247.93	71.49	44.04
Amortized	0.00	0.00	0.00



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Timber Sale Appraisal Summary Hughey Green Sale 341-02-08

Amortized

	Douglas - Fir	Western Hemlock / Fir	Sitka Spruce
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	Sitka Spruce
MBF	588.00	559.00	99.00
Value	247.93	71.49	44.04
Total	145,782.84	39,962.91	4,359.96

Gross Timber Sale Value

Recovery \$190,105.71

Prepared by: Katherine Skinner

Date: 7/3/01

District: Tillamook

Phone: (503) 842-2545

**OREGON DEPARTMENT OF FORESTRY
CRUISE REPORT**

HUGHEY GREEN

1. **Type of Sale:** Clearcut/Thinning – Recovery
2. **Legal Description:** Portions of Section 19 and 20 of T1S, R8W, and Section 25 of T1S, R9W, W.M., Tillamook County, Oregon.
3. **Sale Acreage:** The sale boundary was plotted on a digital orthophotograph and the acreage was calculated with GIS.

	Gross Acres	Net Partial Cut Acres*
Area I	57	45
Area II	9	9
Area III	18	15
Area IV	32	23
Area V	18	15
Total	134	107

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

4. **Cruising Procedures:**

- A) **Cruising Method:** Areas I- III: 42 variable radius full point plots were established 250 feet apart on cruise lines spaced 250 feet apart. Half were measure plots and half were count plots. The coefficient of variation (CV) and standard error (SE) on board foot measure was 35.6% and 7.0% respectively in Area I, 21.1% CV and 10.6% SE in Area II and 48.5% CV and 14.6% SE in Area III.
Areas IV and V: 16 variable full point plots were established 250 feet apart on cruise lines spaced 250 feet apart. Take and leave trees were designated on each plot and measurements were taken to determine take and leave volumes.
- B) **Form Point:** Form point was at 16 feet.
- C) **Form Factor:** Form factors were measured for all trees.
- D) **Plot Size:** A basal area factor (BAF) of 20 was used on Areas I, II, III and V and a 40 BAF was used on Area IV. The point of observation was 4.5 feet for conifer.
- E) **Diameter Standards:** All diameters were measured at 4.5 feet (DBH) to the nearest 1".

- F) **Height Standards:** All heights were measured to the nearest foot.
- G) **Grading System:** The segment grading system was used for Douglas-fir and alder following the Columbia River Official Log Scaling and Grading Bureau rules.
- H) **Defect and Breakage:** A 5% reduction for defect and breakage was applied to the conifer and hardwood volumes.
- I) **Utilization Standards:** All conifers were measured to a 6 inch top or 25% of DBH, whichever was greater.
- J) **Cruiser Names / Dates:** Katherine Skinner, Ed Keith and Robert Shaver, November, 2000.

5. **Computation Procedures:** The cruise was entered into SuperAce Timberland Appraisal and Planning System from Atterbury Consultants Inc., version 98.06.27.

6. **Timber Description:** Areas I and III are comprised of 30 to 35 year old Douglas fir and alder with clumps of hemlock and spruce. Areas II and V are 30 to 35 year old mixed species stands of Douglas-fir, hemlock and spruce. The Douglas fir has severe symptoms of Swiss needle cast with less than 2 full years of needle retention. Area IV is 75 year old hemlock and spruce stand with scattered Douglas-fir. The Douglas fir has 3 to 4 years of needle retention. Information from the cruise is as follows for sale timber:

Area	Species	DBH	TPA
I	Hemlock	15	3
	Douglas-fir	12	129
II	Hemlock	12	6
	Douglas-fir	12	220
III	Hemlock	12	4
	Douglas-fir	10	115
IV	Hemlock	13	204
	Spruce	13	36
V	Hemlock	10	27
	Douglas-fir	12	132

7. **Revenue Distribution:**

100% FDF

Tax Code: 9-1

Deed No. 168

8. **Appendices:**

- Volume Computation Summary

- Cruise map

- Logging Plan



Hughey Green

Volume Summary

Area I						
45 acres						
SPECIES	Basal Area	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir				301	5%	286
Hemlock				10	5%	10
TOTAL				311		296

Area II						
9 acres						
SPECIES	Basal Area	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir				98	5%	93
Hemlock				2	5%	2
TOTAL				100		95

Area III						
15 acres						
SPECIES	Basal Area	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir				101	5%	96
Hemlock				4	5%	4
TOTAL				105		100

Area IV						
23 acres						
SPECIES	Basal Area	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Hemlock				555	5%	527
Spruce				104	5%	99
TOTAL				659		626

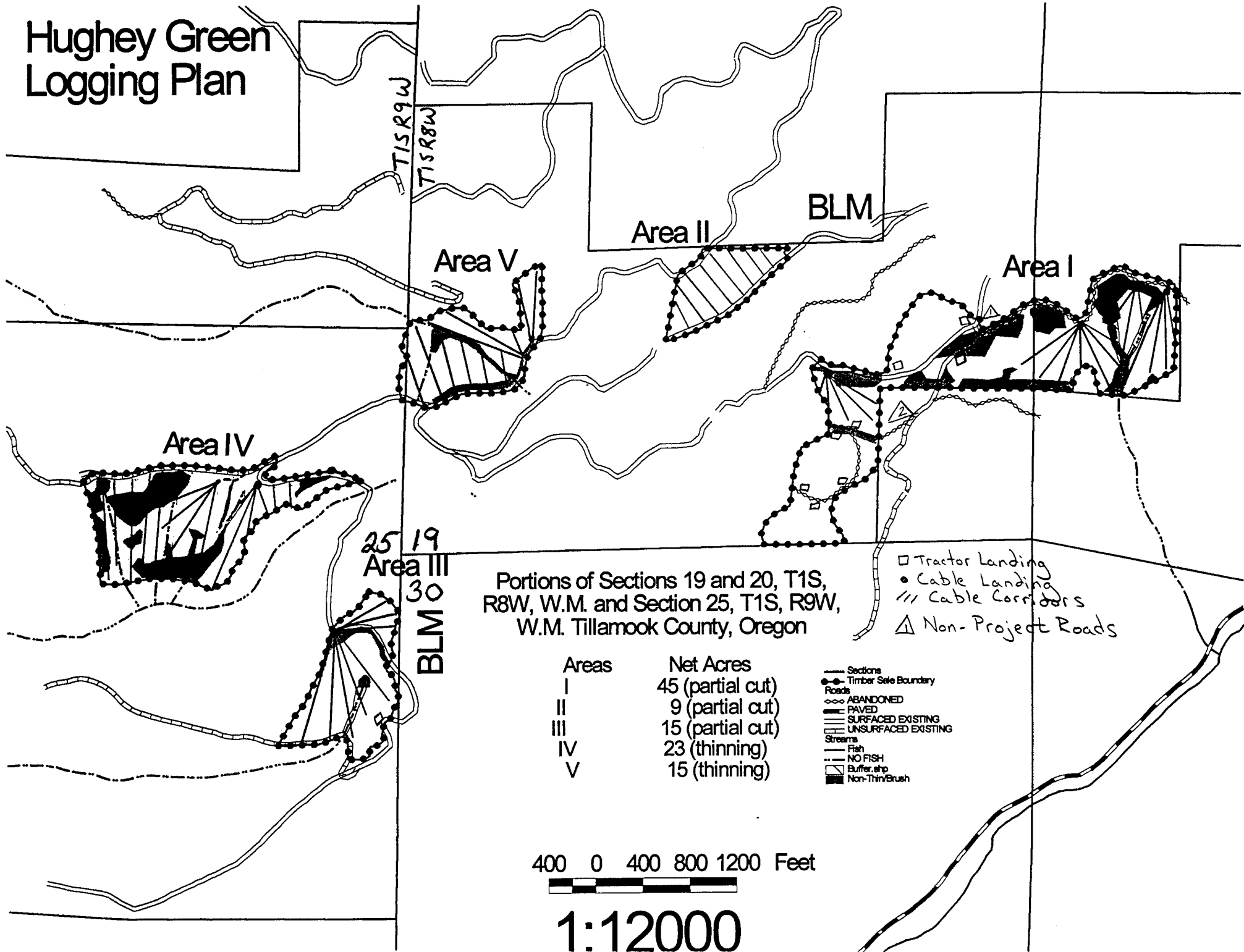
Hughey Green

Volume Summary

Area V						
15 acres						
SPECIES	Basal Area	V-BAR	Vol/Acre MBF	Volume MBF	D & E	Net Vol MBF
Douglas-fir				119	5%	113
Hemlock				17	5%	16
TOTAL				136		129

TOTAL SALE VOLUME			
SPECIES	MBF		Net Vol (MBF)
Douglas-fir	619		588
Hemlock	588		559
Spruce	104		99
TOTAL	1311		1246

Hughey Green Logging Plan



Portions of Sections 19 and 20, T1S, R8W, W.M. and Section 25, T1S, R9W, W.M. Tillamook County, Oregon

Areas	Net Acres
I	45 (partial cut)
II	9 (partial cut)
III	15 (partial cut)
IV	23 (thinning)
V	15 (thinning)

- Tractor Landing
- Cable Landing
- /// Cable Corridors
- △ Non-Project Roads
- Sections
- Timber Sale Boundary
- Roads
- ABANDONED
- PAVED
- SURFACED EXISTING
- UNSURFACED EXISTING
- Streams
- Fish
- - - NO FISH
- Buffer, shp
- Non-Thin/Brush

400 0 400 800 1200 Feet
 1:12000

Hughey Green Cruise Map

