



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Cost Summary Buck Mountain Sale 341-04-19

District: Tillamook

Date: 8/6/03

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$465,931.91	\$0.00	\$465,931.91
		Project Work	(\$90,970.00)
		Advertised Value	\$374,961.91



Timber Sale Appraisal Timber Description Buck Mountain Sale 341-04-19

"STEWARDSHIP IN FORESTRY"

District: Tillamook

Location: Sections 15, 16, 21, 22, 26, 27, 28, 33, and 34, T3N, R8W, W.M. Tillamook County, Oregon

Date: 8/6/03

Stand Stocking: 60%

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

Volume by Grade	Douglas - Fir	Western Hemlock / Fir	Total
2S	427	139	566
3S	1,325	916	2,241
4S	215	172	387
Total	1,967	1,227	3,194

Comments: Pond Values Used: 2nd quarter 2003

See attached additional cost sheet.

8" + Hardwood Pond Value: \$510

Logging Costs: \$252.58

Hardwood stumpage: \$257.42



Timber Sale Appraisal Logging Conditions Buck Mountain Sale 341-04-19

"STEWARDSHIP IN FORESTRY"

Combination#: 1	Douglas - Fir	58.41%	
Yarding Distance:	Medium (800 ft)		Downhill Yarding: No
Logging System:	Cable: Medium Tower >40 - <70		Process: Manual Delimiting
Tree Size:	Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF		
Loads/Day:	6		Bd. Ft./Load: 3,500
Cost/MBF:	\$157.93		
Machines:	Log Loader (A) Tower Yarder (Medium)		
Combination#: 2	Douglas - Fir	31.52%	
	Western Hemlock / Fir	78.89%	
Yarding Distance:	Medium (800 ft)		Downhill Yarding: No
Logging System:	Cable: Medium Tower >40 - <70		Process: Manual Delimiting
Tree Size:	Mature / Partial Cut (900 Bft/tree), 3-5 logs/MBF		
Loads/Day:	6		Bd. Ft./Load: 4,000
Cost/MBF:	\$150.75		
Machines:	Log Loader (A) Tower Yarder (Medium)		
Combination#: 3	Douglas - Fir	10.07%	
	Western Hemlock / Fir	21.11%	
Yarding Distance:	Short (400 ft)		Downhill Yarding: Yes
Logging System:	Track Skidder		Process: Manual Falling/Delimiting
Tree Size:	Mature / Partial Cut (900 Bft/tree), 3-5 logs/MBF		
Loads/Day:	6		Bd. Ft./Load: 4,000
Cost/MBF:	\$136.06		
Machines:	Log Loader (B) Track Skidder		



Timber Sale Appraisal Logging Costs Buck Mountain Sale 341-04-19

"STEWARDSHIP IN FORESTRY"

Date: 8/6/03

Operating Seasons: 1.6

Profit & Risk: 15%

Project Costs: \$90,970

Other Costs (P/R): \$31,008

Slash Disposal: \$0

Other Costs: \$25,891

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

Road Maintenance: \$5.71

Hauling Costs

Species	\$/MBF	Trips/Day	MBF/Load
Douglas - Fir	\$0.00	2.0	3.5
Western Hemlock / Fir	\$0.00	3.0	3.2



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Logging Costs Breakdown Buck Mountain Sale 341-04-19

Costs	Douglas - Fir	Western Hemlock / Fir
Logging	153.47	147.65
Road Maintenance	6.01	6.01
Fire Protection	1.36	1.36
Hauling	69.16	46.11
Other (P/R appl.)	9.71	9.71
Profit & Risk	35.96	31.63
Slash Disposal	0.00	0.00
Scaling	2.00	2.00
Other	8.11	8.11
Total	285.78	252.58

Amortization	0.00	0.00
Pond Value	489.40	305.89
Stumpage	203.62	53.31
Amortized	0.00	0.00



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Summary Buck Mountain Sale 341-04-19

Amortized

	Douglas - Fir	Western Hemlock / Fir
MBF	0.00	0.00
Value	0.00	0.00
Total	0.00	0.00

Unamortized

	Douglas - Fir	Western Hemlock / Fir
MBF	1,967.00	1,227.00
Value	203.62	53.31
Total	400,520.54	65,411.37

Gross Timber Sale Value

Recovery \$465,931.91

Prepared by: David Wells

Date: 8/6/03

District: Tillamook

Phone: (503) 842-2545

Additional Costs

Buck Mountain



"STEWARDSHIP IN FORESTRY"

Cable Yarding Volume:	2694	MBF
Ground Yarding Volume:	500	MBF
Total Sale Volume:	3194	MBF

ADDITIONAL COSTS - PROFIT & RISK TO BE ADDED						
Yarding & Loading:	Cost / MBF		Volume (MBF)			
Brand & Paint:	\$ 2	x	3194	=	\$6,388	
Truck Assist/ Tractor Swing	\$ 30	x	554	=	\$16,620	
Sub total					\$23,008	
	Cost/Each					
Intermediate Supports (per support)	\$ 100	x	80	=	\$8,000	
OTHER COSTS TOTAL						\$31,008

ADDITIONAL COSTS - PROFIT & RISK INCLUDED						
Non-Project Roads*						
Road 1	7	Stations	x	\$ 50	=	\$350
Road 2	7	Stations	x	\$ 130	=	\$910
Road 3	29	Stations	x	\$ 130	=	\$3,770
	43				Total	\$5,030
Grass seeding exposed soil	1.8	acres	x	\$ 180	=	\$324
		Stations	x	Yrd ³	x	\$/Yard
Pit Run Rock	43			60	x	\$7.96
						\$20,537
OTHER COSTS TOTAL						\$ 25,891

ROAD MAINTENANCE				
	\$/Mile	MMBF	Miles	\$/MBF
**Grading:	\$500	3.19	6.4	\$3.20
		\$/Sta	Stations	Total
***Ditch Clearing and End Hauling		\$ 20.00	290	\$5,800.00
				\$1.82
		\$/Yd	MMBF	Miles
****Maintenance rock	\$4.29	3.19	6.4	25
				\$0.69
TOTAL ROAD MAINTENANCE COST / MBF:				\$5.71
*The first 100 feet of a non-project road must be rocked with pit run rock.				
** Assumes grading the road once per MMBF				
***Includes cost for excavating, hauling, compaction and sediment control devices.				
**** Assumes 25 cy for normal maintenance /MMBF/mile				

SUMMARY OF CONSTRUCTION COST

Sale: Buck Mountain Road: Points A - B: Buck Mountain, Lost Cr rd.s

Construction - 0.00 stations miles Improvement - 141+00 stations miles
0.00 miles 2.67 miles

CLEARING AND GRUBBING -

Scattering	5.00 acres @	\$815.00 per acre =	\$4,075.00	
Endhaul	0.00 acres @	\$1,500.00 per acre =	<u>\$0.00</u>	
TOTAL CLEARING AND GRUBBING				\$4,075.00

EXCAVATION -

	126.95 sta. @	\$65.00 per sta. =	\$8,251.75	
Waste Area #1				
Common	296 cys. @	\$2.90 per c.y. =	\$858.40	
Waste Area #2				
Common	360 cys. @	\$3.77 per c.y. =	\$1,357.20	
Rippable	222 cys. @	\$5.07 per c.y. =	\$1,125.54	
Drill & Shoot	90 cys. @	\$7.72 per c.y. =	\$694.80	
Waste Area #3				
Common	234 cys. @	\$3.10 per c.y. =	\$725.40	
Rippable	110 cys. @	\$4.40 per c.y. =	\$484.00	
Drill & Shoot	520 cys. @	\$7.05 per c.y. =	<u>\$3,666.00</u>	
TOTAL EXCAVATION				\$17,163.09

CULVERT MATERIALS -

Culverts				
434 LF of 18"	<u>\$6,401.50</u>	144 LF of 24"	<u>\$2,556.00</u>	
	\$6,401.50		\$2,556.00	
Half Rounds				
90 LF of 21"	<u>\$1,026.00</u>	20 LF of 30"	<u>\$290.00</u>	
	\$1,026.00		\$290.00	
Culvert Stakes				
22 1/2 round stakes @		\$8.00 per stake=	\$176.00	
18 marker stakes @		\$6.00 per stake=	<u>\$108.00</u>	
TOTAL CULVERT MATERIALS				\$10,557.50

SURFACING-

0+00 to				
1+70	65 cy. of	Crushed @	\$4.29 per c.y.=	\$278.85
12" Depth	3,100 cy. of	Pit Run @	\$7.94 per c.y.=	<u>\$24,614.00</u>
TOTAL SURFACING				\$24,892.85

MISCELLANEOUS-

Fill Repair	40 cy. of	Pit Run @	\$7.94 per c.y.=	<u>\$317.60</u>
TOTAL MISCELLANEOUS				\$317.60

SPECIAL PROJECTS

Roll Subgrade: Sta. 141+00 Stations @ 11/sta.	\$1,551.00	
Grade Road: \$13.70/sta. X 141.00 Stations	\$1,931.70	
Remove Old Culverts From State Land	\$246.00	
Grass Seed & Fertilize Areas of Disturbed Soil: 5 Acres @ \$180/ac.	\$900.00	
TOTAL SPECIAL PROJECTS		\$4,628.70

GRAND TOTAL \$61,634.74

SUMMARY OF CONSTRUCTION COST

Sale: Buck Mountain Road: Points C - D

Construction - 0.00 stations miles Improvement - 26+20 stations miles
0.00 miles 0.50 miles

CLEARING AND GRUBBING -

Side cast	0.00	acres	@	\$540.00	per acre =	\$0.00	
Scattering	2.00	acres	@	\$815.00	per acre =	\$1,630.00	
Piling	0.00	acres	@	\$905.00	per acre =	\$0.00	
Endhaul	0.00	acres	@	\$1,500.00	per acre =	\$0.00	
TOTAL CLEARING AND GRUBBING							\$1,630.00

EXCAVATION -

	0	hr.s	@	\$0.00	per hr. =	\$0.00	
	26.20	sta.	@	\$55.00	per sta. =	\$1,441.00	
	0	cys.	@	\$0.00	per c.y. =	\$0.00	
TOTAL EXCAVATION							\$1,441.00

SURFACING-

9" Depth	1,310	cy. of	Pit Run	@	\$3.47	per c.y.=	\$4,545.70
3Trnouts	51	cy. of	Pit Run	@	\$3.47	per c.y.=	\$176.97
SmTurnrnd	17	cy. of	Pit Run	@	\$3.47	per c.y.=	\$58.99
TOTAL SURFACING							\$4,781.66

SPECIAL PROJECTS

Grade Road: 26+20 Stations @ \$9.75/sta.	\$255.45
Roll Subgrade: 26+20 Stations @ \$11/sta.	\$288.20
Grass Seed & Fertilize Areas of Disturbed Soil: 1 Acres @ \$180/ac.	\$180.00
	\$0.00
TOTAL SPECIAL PROJECTS	\$723.65

GRAND TOTAL **\$8,576.31**

SUMMARY OF CONSTRUCTION COST

Sale: Buck Mountain Road: Points E - F

Construction - 0.00 stations miles Improvement - 33+80 stations miles
0.64 miles

CLEARING AND GRUBBING -

Side cast	0.00 acres @	\$540.00 per acre =	\$0.00	
Scattering	2.30 acres @	\$815.00 per acre =	#####	
Piling	0.00 acres @	\$905.00 per acre =	\$0.00	
Endhaul	0.00 acres @	\$1,500.00 per acre =	\$0.00	
TOTAL CLEARING AND GRUBBING				\$1,874.50

EXCAVATION -

	0 hr.s @	\$0.00 per hr. =	\$0.00	
	24.65 sta. @	\$65.00 per sta. =	\$1,602.25	
Common	761 cys. @	\$3.12 per c.y. =	\$2,374.32	
Rippable	175 cys. @	\$4.72 per c.y. =	\$826.00	
Drill & Shoot	130 cys. @	\$6.97 per c.y. =	\$906.10	
TOTAL EXCAVATION				\$5,708.67

SURFACING-

Spot Rock	632 cy. of	Pit Run @	\$8.89 per c.y. =	<u>\$5,618.48</u>
TOTAL SURFACING				\$5,618.48

SPECIAL PROJECTS

<u>Grade Road: 33+80 Stations @ \$13.70/sta.</u>	\$463.06	
<u>Roll Subgrade: 33+80 Stations @ \$11/sta.</u>	\$371.80	
<u>Grass Seed & Fertilize Areas of Disturbed Soil: 1.2 Acres @ \$180/ac.</u>	\$216.00	
	\$0.00	
TOTAL SPECIAL PROJECTS		\$1,050.86

GRAND TOTAL \$14,252.51

SUMMARY OF CONSTRUCTION COST

Sale: Buck Mountain Road: Points G - H Buck Mountain Road

Construction - 0.00 stations miles Improvement - 2+45 stations miles
0.05 miles

EXCAVATION -

Rippable	94 cys. @	\$4.05 per c.y. =	\$380.70	
Drill & Shoot	113 cys. @	\$6.70 per c.y. =	\$757.10	
Common	100 cys. @	\$2.85 per c.y. =	<u>\$285.00</u>	
		TOTAL EXCAVATION		\$1,422.80

CULVERT MATERIALS -

Culverts

28 LF of 18"	\$413.00	34 LF of 24"	\$603.50
0 LF of 30"	\$0.00	0 LF of 36"	\$0.00
0 LF of 42"	\$0.00	0 LF of 48"	\$0.00
0 LF of 54"	\$0.00	0 LF of 60"	\$0.00
	<u>\$413.00</u>		<u>\$603.50</u>

Half Rounds

20 LF of 21"	\$228.00	10 LF of 30"	\$145.00
0 LF of 36"	\$0.00	0 LF of 42"	\$0.00
0 LF of 48"	\$0.00	0 LF of 54"	\$0.00
0 LF of 60"	\$0.00	0 LF of 66"	\$0.00
	<u>\$228.00</u>		<u>\$145.00</u>

Culvert Stakes

6 1/2 round stakes @	\$8.00 per stake =	\$48.00
2 marker stakes @	\$6.00 per stake =	<u>\$12.00</u>

TOTAL CULVERT MATERIALS \$1,449.50

SURFACING-

8" Depth	108 cy. of	Crushed	@	\$5.70 per c.y. =	\$615.60
	0 cy. of		@	\$0.00 per c.y. =	<u>\$0.00</u>
				TOTAL SURFACING	\$615.60

MISCELLANEOUS-

Fill	60 cy. of	Pit Run	@	\$5.74 per c.y. =	\$344.40
	cy. of		@	\$0.00 per c.y. =	<u>\$0.00</u>
				TOTAL MISCELLANEOUS	\$344.40

SPECIAL PROJECTS

Seed & Fertilize Culvert Catch Basin	\$10.00
Grade Road	\$15.00
	<u>\$0.00</u>
TOTAL SPECIAL PROJECTS	\$25.00

GRAND TOTAL \$3,857.30

PIT RUN PIT DEVELOPMENT AND STRIPPING COST SUMMARY
SALE: BUCK MOUNTAIN

Pit:	<u>C - D</u>	Location:	<u>NW1/4 NE1/4 S27 T3N R8W</u>
Rock:	<u>PIT RUN</u>	Road:	<u>1378 c.y.</u>
Swell:	<u>1.30</u>	Stockpile Size:	<u>c.y.</u>
Shrinkage:	<u>1.16</u>	Total Truck Loads:	<u>1378 c.y.</u>
Drill Pct.:	<u>0%</u>	In Place Total:	<u>1060 c.y.</u>

Drill & Shoot:	<u>\$1.90</u> /cu.yd.	x	<u>0</u> cu.yds.	=	\$0.00
Strip Rock:	<u>\$1.75</u> /cu.yd.	x	<u>1,060</u> cu.yds.	=	\$1,855.00
Push Rock:	<u>\$0.00</u> /cu.yd.	x	<u>1378</u> cu.yds.	=	\$0.00
Load Dump Truck:	<u>\$0.70</u> /cu.yd.	x	<u>1378</u> cu.yds.	=	\$964.60
			Sub Total		<u>\$2,819.60</u>

Base Cost= \$2.05 Per Cu.Yd.

Road Segment	Haul Cost /cu.yd.	Proc Cost /cu.yd.	Base Cst. /cu.yd.	Cost /cu.yd.	Number Cu. Yds	ROCK COST
	<u>\$0.82</u>	<u>\$0.60</u>	<u>\$2.05</u>	<u>\$3.47</u>	<u>1378</u>	<u>\$4,781.66</u>
	<u>\$0.00</u>	<u>\$0.00</u>	<u>\$0.00</u>	<u>\$0.00</u>	<u>0</u>	<u>\$0.00</u>
			Total C.Y.		1378	Sub Total
						<u>\$4,781.66</u>

TOTAL ROCKING COSTS = \$4,781.66

PIT RUN PIT DEVELOPMENT AND STRIPPING COST SUMMARY

SALE: BUCK MOUNTAIN

Location: **SE 1/4, Sec. 27, T3N, R8W**

Pit: **Lost Creek**
 Rock: **PIT RUN**
 Swell: 1.30
 Shrinkage: 1.16
 Drill Pct.: 25%

Road: 3732 c.y.
 Stockpile Size: c.y.
 Total Truck Loads: 3732 c.y.
 In Place Total: 2871 c.y.

Pit Development: \$500.00
 Drill & Shoot: \$1.90 /cu.yd. x 718 cu.yds. = \$1,364.20
 Strip Rock: \$1.50 /cu.yd. x 2,153 cu.yds. = \$3,229.50
 Push Rock: \$0.60 /cu.yd. x 3732 cu.yds. = \$2,239.20
 Load Dump Truck: \$0.70 /cu.yd. x 3732 cu.yds. = \$2,612.40
 Sub Total \$9,945.30

Base Cost= \$2.66 Per Cu.Yd.

Road Segment	Haul Cost /cu.yd.	Proc Cost /cu.yd.	Base Cst. /cu.yd.	Cost /cu.yd.	Number Cu. Yds	ROCK COST
A - B	\$4.38	\$0.90	\$2.66	\$7.94	3100	\$24,614.00
E - F	\$5.33	\$0.90	\$2.66	\$8.89	632	\$5,618.48
	\$0.00	\$0.90	\$2.66	\$3.56	0	\$0.00
	\$0.00	\$0.90	\$2.66	\$3.56	0	\$0.00
	\$0.00	\$0.90	\$2.66	\$3.56	0	\$0.00
	\$0.00	\$0.90	\$2.66	\$3.56	0	\$0.00
Total C.Y.					3732	Sub Total \$30,232.48

Stockpile	Haul Cost /cu.yd.	Proc Cost /cu.yd.	Base Cst. /cu.yd.	Cost /cu.yd.	Number Cu.Yds.	ROCK COST
	\$0.00	\$0.55	\$0.00	\$0.55	0	\$0.00
	\$0.00	\$0.55	\$0.00	\$0.55	0	\$0.00
Total C.Y.					0	Sub Total \$0.00

TOTAL ROCKING COSTS = \$30,232.48



Oregon Department of Forestry Cruise Report *Buck Mountain*

1. Type of Sale

Partial cut and clearcut/ recovery.

2. Legal Description

Portions of Sections 15, 16, 21, 22, 26, 27, and 34 T3N,R8W,W.M.,Tillamook County, Oregon

3. Sale Acreage

The sale boundaries were plotted on a digital orthophotograph and the acreage was calculated with a GIS.

	ACRES		
	Sale	Total	Net
Area 1 (partial cut)	308	308	165
Area 2 (clear cut)	103	126	88
Area 3 (clear cut)	44	44	40
Area 4 (partial cut)	23	23	21
Total	478	501	314

Sale Acres: Area within the Timber Sale Boundary signs

Total Acres: Sale acres; plus green tree retention areas outside the sale boundary; less roads and riparian areas classified as Special Stewardship in LMCS inside the sale boundary. For accomplishment reporting – clearcut (regeneration) harvest.

Net acres: For accomplishment reporting & for calculating the advertised volume

Clearcut - Sale acres, less green tree retention, roads, and riparian areas classified as Special Stewardship in LMCS inside the sale boundary.

Partial Cut - Sale acres less areas of low stocking, hardwoods, roads, and riparian areas classified as Special Stewardship in LMCS inside the sale boundary.

4. Cruising Procedures

A. Cruising Method

A total of 130 plots were taken in the sale area; 75 in Area 1, 32 in Area 2, 11 in Area 3, and 12 in Area 4. The areas were sampled on a grid of varying intensity to adequately sample the sale areas. Diameters were measured to the nearest inch, heights to the nearest foot. Trees less than 8" DBH were not recorded.

In Areas 1 and 4 all conifer trees on all plots were measured and graded. Area 1's coefficient of variation was 44.1% and standard error was 6.2%,

and Area 4's CV was 53.1% and SE was 15.3% based on net board feet. In Areas 2 and 3 the total basal area and one conifer tree was measured and graded on each plot. Area 2's CV was 68.9% and SE was 11.8% and Area 3's CV was 60.9% and SE was 10.6% based on board foot volume of the graded trees.

The right of way was 100% measured and graded.

B. Plot Size

A 40 BAF was used on Areas 1 and 4 and a 20 BAF was used on Areas 2 and 3. The point of observation was at 4.5 feet.

C. Grading System

Trees were measured and graded to a 6" top favoring 40 foot log lengths using Columbia River Log Scaling and Grading Rules.

5. Computation Procedures

Plot data was entered into SuperAce for computation of basal area, V-BAR, stand tables and diameters. This data was entered into the Volume Summary Worksheet to compute sale volumes.

6. Defect and Breakage

A 7.5% reduction for defect and breakage was applied to the hemlock volume and a 5% reduction for defect and breakage was applied to the Douglas-fir volume.

7. Timber Description

Areas 1 and 4 are similar stands, predominately Douglas-fir and western hemlock approximately 55 years old and naturally re-generated. The conifer stands are dense with relatively small limbs and a low percentage of defect. Douglas-fir shows moderate symptoms of Swiss needle cast. Pockets of red alder are scattered through out the two areas. A minor component of red cedar, noble fir, and Sitka spruce also exists through out the stands.

Areas 2 and 3 are planted stands approximately 40 years of age. They consist of almost pure Douglas-fir with a minor component of western hemlock, noble fir, Sitka spruce and red alder. The Douglas-fir shows severe symptoms of Swiss needle cast. The stands are well stocked with relatively small limbs and low defect. The defect and tree mortality that does exist is mostly due to bear damage.

8. Cruiser Names/Dates

Wells, Bond and Frison; September-November 2002

9. Revenue Distribution

100% FDF

Tax Code: 70% 56-1, 30% 56

Deed Numbers: 15, 35

40 % Rehabilitation Obligated

10. Attachments

Stand Tables

Volume Summary

Logging Plan



Buck Mountain

Volume Summary

Area 1						
165 acres						
SPECIES	Gross MBF Per Acre	Net MBF Per Acre	Gross MBF	Net MBF	D & B	Net Vol MBF
Douglas-fir	4.7	4.6	776	759	5%	737
Hemlock	6.7	6.5	1106	1073	7.5%	1023
TOTAL	11.4	11.1	1882	1832		1760

Area 2						
88 acres						
SPECIES	Basal Area Per Acre	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	121	79.3	9.6	845	5%	803
TOTAL				845		803

Area 3						
40 acres						
SPECIES	Basal Area Per Acre	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	107	85.1	9.1	364	5%	346
TOTAL				364		346

Area 4						
21 acres						
SPECIES	Gross MBF Per Acre	Net MBF Per Acre	Gross MBF	Net MBF	D & B	Net Vol MBF
Douglas-fir	3.3	3.2	69	67	5%	66
Hemlock	10.4	10.3	218	216	7.5%	202
TOTAL			287	283		268

Area Right of Way						
3 acres						
SPECIES	Gross MBF	Net MBF			D & B	Net Vol MBF
Douglas-fir	13	13			5%	13
Hemlock	4	4			7.5%	4
TOTAL	17	17				17

TOTAL SALE VOLUME		
314 acres		
SPECIES	Gross MBF	Net Vol. (MBF)
Douglas-fir	2067	1965
Hemlock	1328	1229
TOTAL	3395	3194

TC TSTNDSUM

Stand Table Summary

AREA 1

Project BUCK MTN

T03N R08W S22 T0127

T03N R08W S22 T0127

Twp Rge Sec Tract
03N 08W 22 100

Type
0127

Acres
1.00

Plots
75

Sample Trees
473

Page: 1
Date: 1/14/03
Time: 3:06:42PM

Spc	S	DBH	Sample Trees	FF	Av Ht	Trees/BA/Acre	Logs/Acre	Average Log		Net Cu.Ft./Acre	Net Cu.Ft./Acre	Net Bd.Ft./Acre	Totals			
								Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF	
CS		8	1	89	17	1.693	.53									
CS		9	2	90	17	2.470	1.07									
CS		12	1	89	17	.702	.53									
CS		18	1	89	17	.302	.53									
CS		24	1	90	17	.177	.53									
CS		Totals	6	89	17	5.344	3.20									
DL		10	2	83	17	2.061	1.07									
DL		11	1	83	17	.808	.53									
DL		14	1	83	17	.499	.53									
DL		15	2	82	17	.847	1.07									
DL		16	9	83	17	3.424	4.80									
DL		17	9	82	17	3.034	4.80									
DL		18	13	83	17	3.937	6.93									
DL		19	10	83	17	2.704	5.33									
DL		20	14	83	17	3.408	7.47									
DL		21	14	83	17	3.109	7.47									
DL		22	7	83	17	1.429	3.73									
DL		23	6	82	17	1.121	3.20									
DL		24	7	83	17	1.182	3.73									
DL		25	1	83	17	.162	.53									
DL		27	1	82	17	.134	.53									
DL		28	1	83	17	.125	.53									
DL		Totals	98	83	17	27.983	52.27									
DT		6	1	83	17	2.716	.53									
DT		9	2	82	17	2.414	1.07									
DT		10	5	83	17	4.889	2.67									
DT		11	4	83	17	3.233	2.13									
DT		12	7	83	17	4.753	3.73									
DT		13	6	82	17	3.472	3.20									
DT		14	9	83	17	4.476	4.80									
DT		15	8	82	17	3.443	4.27									
DT		16	9	83	17	3.424	4.80									
DT		17	5	82	17	1.704	2.67									
DT		18	11	82	17	3.337	5.87									
DT		19	4	83	17	1.083	2.13									
DT		20	1	83	17	.244	.53									
DT		Totals	72	83	17	39.190	38.40									
HL		8	1	91	17	1.528	.53									
HL		10	1	90	17	.978	.53									
HL		11	2	90	17	1.616	1.07									
HL		12	3	91	17	2.037	1.60									
HL		13	5	91	17	2.825	2.67									
HL		14	6	91	17	2.993	3.20									
HL		15	9	91	17	3.936	4.80									
HL		16	9	91	17	3.452	4.80									
HL		17	12	90	17	4.073	6.40									
HL		18	7	90	17	2.100	3.73									
HL		19	8	90	17	2.167	4.27									
HL		20	10	91	17	2.452	5.33									
HL		21	5	90	17	1.115	2.67									

DOUGLAS-FIR LEAVE TREES

DOUGLAS-FIR TAKE TREES

HEMLOCK LEAVE TREES

Stand Table Summary

Project BUCK MTN

AREA 1

T03N R08W S22 T0127

T03N R08W S22 T0127

Twp Rge Sec Tract
03N 08W 22 100

Type
0127

Acres
1.00

Plots
75

Sample Trees
473

Page: 2
Date: 1/14/03
Time: 3:06:42PM

Spc	S T	Sample			Av	Trees/ BA/		Logs Acres	Average Log		Net Tons/ Acres	Net Cu.Ft. Acres	Net Bd.Ft. Acres	Totals			
		DBH	Trees	FF 16	Ht Tot	Acres	Acres		Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF	
HL		22	8	91	17	1.616	4.27										
HL		23	1	91	17	.185	.53										
HL		24	3	90	17	.507	1.60										
HL		26	1	91	17	.145	.53										
HL		27	1	91	17	.134	.53										
HL		29	1	91	17	.116	.53										
HL		31	1	90	17	.102	.53										
HL		34	1	90	17	.085	.53										
HL		39	1	90	17	.064	.53										
HL		Totals	96	91	17	34.226	51.20										
HT		7	1	91	17	1.996	.53										
HT		8	6	91	17	9.167	3.20										
HT		9	4	90	17	4.829	2.13										
HT		10	11	91	17	10.756	5.87										
HT		11	10	91	17	8.081	5.33										
HT		12	16	91	17	10.865	8.53										
HT		13	16	91	17	9.249	8.53										
HT		14	12	91	17	6.009	6.40										
HT		15	5	91	17	2.173	2.67										
HT		16	13	90	17	4.953	6.93										
HT		17	3	91	17	1.015	1.60										
HT		18	1	91	17	.302	.53										
HT		19	2	91	17	.557	1.07										
HT		Totals	100	91	17	69.952	53.33										
NF		8	1	91	17	1.528	.53										
NF		9	2	91	17	2.414	1.07										
NF		10	2	90	17	1.956	1.07										
NF		11	3	90	17	2.424	1.60										
NF		12	3	91	17	2.037	1.60										
NF		13	1	91	17	.579	.53										
NF		14	1	91	17	.499	.53										
NF		15	1	91	17	.435	.53										
NF		16	2	91	17	.764	1.07										
NF		18	2	91	17	.604	1.07										
NF		19	2	90	17	.542	1.07										
NF		20	1	90	17	.244	.53										
NF		21	1	91	17	.222	.53										
NF		22	3	91	17	.612	1.60										
NF		24	1	91	17	.170	.53										
NF		25	1	90	17	.156	.53										
NF		26	2	91	17	.289	1.07										
NF		38	1	90	17	.068	.53										
NF		Totals	30	91	17	15.542	16.00										
RA		8	2	86	17	3.056	1.07										
RA		9	2	87	17	2.414	1.07										
RA		10	2	87	17	1.956	1.07										
RA		11	6	87	17	4.849	3.20										
RA		12	13	87	17	8.828	6.93										
RA		13	7	86	17	4.050	3.73										
RA		14	11	87	17	5.474	5.87										

HEMLOCK TAKE TREES

NOBLE FIR

TC TSTNDSUM

Stand Table Summary

Project BUCK MTN

AREA 4

T03N R08W S22 T0420

T03N R08W S22 T0420

Twp Rge Sec Tract
03N 08W 22 100

Type Acres Plots Sample Trees
0420 1.00 12 75

Page: 1
Date: 1/14/03
Time: 3:11:54PM

S Spec T	DBH	Sample Trees	FF 16	Av Ht Tot	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals		
								Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF
HL	8	1	91	52	9.549	3.33	9.55	7.0	30.0	67	286		1	0	
HL	11	1	79	72	5.051	3.33	5.05	17.0	50.0	86	253		1	0	
HL	12	1	85	146	4.040	3.33	8.08	19.5	75.0	158	606		2	1	
HL	14	2	81	85	6.374	6.67	9.49	23.0	72.8	218	692		2	1	
HL	15	1	91	127	2.716	3.33	8.15	21.0	86.7	171	706		2	1	
HL	16	1	91	132	2.300	3.33	6.90	26.7	93.3	184	644		2	1	
HL	17	5	86	128	10.810	16.67	30.36	27.2	98.2	827	2,983		8	3	
HL	18	2	87	118	3.773	6.67	11.32	28.5	110.0	323	1,245		3	1	
HL	20	4	85	120	6.052	13.33	16.63	38.3	140.1	637	2,330		6	2	
HL	21	1	84	118	1.386	3.33	4.16	38.0	140.0	158	582		2	1	
HL	23	1	84	114	1.155	3.33	3.47	43.7	173.3	151	601		2	1	
HL	24	1	84	115	1.061	3.33	3.18	48.7	190.0	155	605		2	1	
HL	25	1	90	123	.978	3.33	2.93	57.3	226.7	168	665		2	1	
HL	32	1	82	125	.597	3.33	1.79	92.0	346.7	165	621		2	1	
HL	Totals	23	86	104	55.842	76.67	121.06	28.6	105.9	3,467	12,818		35	13	
HT	7	1	85	36	12.473	3.33		10.0	50.0	95	477		1	0	
HT	8	1	91	68	9.549	3.33	9.55	8.5	32.5	257	981		3	1	
HT	9	2	87	81	15.090	6.67	30.18	14.0	53.3	257	978		3	1	
HT	10	2	88	113	12.223	6.67	18.33	14.0	55.0	283	1,111		3	1	
HT	11	2	88	123	10.102	6.67	20.20	15.5	55.0	132	467		1	0	
HT	12	1	84	98	4.244	3.33	8.49	18.8	60.0	271	868		3	1	
HT	13	2	84	109	7.233	6.67	14.47	18.7	80.0	175	748		2	1	
HT	14	1	90	135	3.118	3.33	9.35	26.0	105.0	151	610		2	1	
HT	15	1	89	115	2.907	3.33	5.81	27.2	100.0	583	2,140		6	2	
HT	16	4	86	109	9.520	13.33	21.40	34.6	118.6	456	1,566		5	2	
HT	18	3	84	114	5.659	10.00	13.20	42.5	140.0	107	354		1	0	
HT	19	1	82	103	1.693	3.33									
HT	22	1	82	105	1.263	3.33	2.53								
HT	Totals	22	87	94	95.073	73.33	153.52	18.0	67.1	2,767	10,300		28	10	
DL	17	1	84	134	2.115	3.33	6.34	25.0	93.3	159	592		2	1	
DL	20	1	83	153	1.528	3.33	3.06	50.0	195.0	153	596		2	1	
DL	22	1	83	125	1.263	3.33	3.79	40.0	143.3	152	543		2	1	
DL	24	2	82	122	2.122	6.67	6.37	47.8	133.3	305	849		3	1	
DL	26	2	81	143	1.822	6.67	5.47	61.0	235.0	333	1,285		3	1	
DL	28	1	84	100	.780	3.33	1.56	80.5	255.0	126	398		1	0	
DL	Totals	8	83	132	9.629	26.67	26.58	46.1	160.3	1,226	4,262		12	4	
RA	11	3	81	75	15.153	10.00	20.20	11.9	42.5	241	859		2	1	
RA	12	2	80	51	8.488	6.67	8.49	15.2	40.0	129	340		1	0	
RA	13	3	80	47	11.078	10.00	11.08	17.3	40.0	192	443		2	0	
RA	16	2	80	97	4.775	6.67	9.55	21.7	80.0	207	764		2	1	
RA	18	1	79	93	1.886	3.33	3.77	28.6	100.0	108	377		1	0	
RA	20	1	79	116	1.528	3.33	3.06	38.4	155.0	117	474		1	0	
RA	21	1	80	37	1.386	3.33	1.39	40.3	40.0	56	55		1	0	
RA	Totals	13	80	67	44.294	43.33	57.53	18.3	57.6	1,050	3,312		11	3	
DT	13	2	83	54	7.233	6.67	7.23	17.0	40.0	123	289		1	0	
DT	14	1	84	85	3.118	3.33	6.24	18.0	55.0	112	343		1	0	
DT	16	2	84	135	4.688	6.67	14.06	23.0	84.8	323	1,193		3	1	
DT	17	1	82	89	2.042	3.33	4.08	28.5	90.0	116	368		1	0	
DT	18	1	84	116	1.929	3.33	2.89	44.0	173.3	127	502		1	1	

HEMLOCK LEAVE

HEMLOCK TAKE

DOUGLAS-FIR LEAVE

DOUGLAS-FIR TAKE

TC TSTNDSUM

Stand Table Summary

AREA 4

Project BUCK MTN

T03N R08W S22 T0420

T03N R08W S22 T0420

Twp Rge Sec Tract
03N 08W 22 100

Type
0420

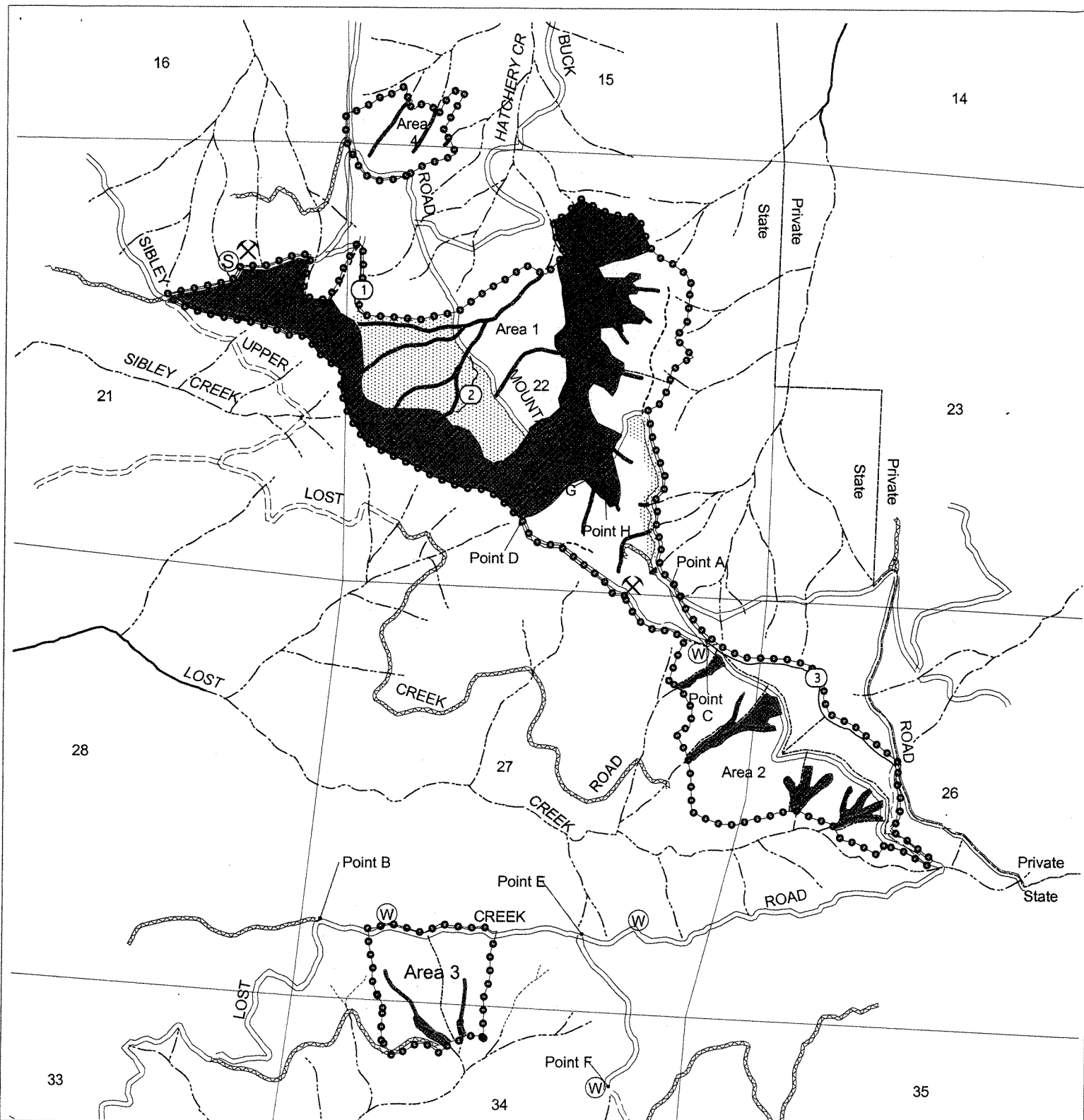
Acres
1.00

Plots
12

Sample Trees
75

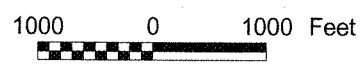
Page: 2
Date: 1/14/03
Time: 3:11:54PM

S Spc T	Sample			Av	Trees/ BA/ Logs			Average Log		Net	Net	Totals			
	DBH	Trees	16	Ht Tot	Acre	Acre	Acre	Net Cu.Ft.	Net Bd.Ft.	Tons/ Acre	Cu.Ft. Acre	Bd.Ft. Acre	Tons	Cunits	MBF
DT	19	1	81	127	1.693	3.33	5.08	30.0	100.0		152	508		2	1
DT	Totals	8	83	92	20.702	26.67	39.59	24.1	80.9		954	3,202		10	3
CS	15	1	80	56	2.716	3.33									
CS	Totals	1	80	56	2.716	3.33									
Totals		75	85	92	228.256	250.00	398.28	23.8	85.1		9465	33,894		95	34



- ▲ Domestic water supply
- ⊗ Block
- ▭ Cable yarding
- ▨ Ground yarding
- ▩ Helicopter yarding
- Buffer zone
- Non-required thinning
- ▭ Green tree retention area
- Setting boundary
- - - Area boundary
- Sale boundary
- Ownership boundary
- Type-F stream
- - - Type-N stream
- - - Seasonal stream
- Surfaced road
- - - Unsurfaced road
- State highway
- County road
- ② Non-project road
- - - Swing road
- - - Abandoned road
- OHV trail

LOGGING PLAN
of Timber Sale Contract No. 341-04-19
Buck Mountain
Portions of sections 15, 16,
21, 22, 26, 27, and 34
T3N, R8W, W. M.
Tillamook County, Oregon



Area	Type of Operation	Acres	
		Gross	Net
1	Partial Cut	308	165
2	Clear Cut	103	88
3	Clear Cut	44	40
4	Partial Cut	23	21
Total		478	314