

Timber Sale Appraisal
Combined Cost Summary

South Burma

Sale 341-06-15

CONIFER

DF \$302.67 x 1,936MBF = \$585,969.12
W Hemlock \$140.16 x 5,507MBF = \$771,861.12

Gross Timber Sale Value (Conifer) \$1,357,830.24
 Minus project Work \$ 0.00
Net Timber Sale Value (Conifer) \$1,357,830.24

HARDWOOD

Hardwood \$322.33 x 3,925MBF = \$1,265,145.25

Gross Timber Sale Value (Hardwood) \$1,265,145.25
 Minus project Work \$ 525,480.00
Net Timber Sale Value (Hardwood) \$ 739,665.25

(Appraised)		(Appraised)		(Appraised)
Net Conifer Value		Net Hardwood Value		Total Net Sale Value
\$1,357,830.24	+	\$739,665.25	=	\$2,097,495.49



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Cost Summary South Burma - Conifer Sale 341-06-15

District: Tillamook

Date: 6/14/05

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$1,357,830.24	\$0.00	\$1,357,830.24
		Project Work	\$0.00
		Advertised Value	\$1,357,830.24



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Timber Description South Burma - Conifer Sale 341-06-15

District: Tillamook

Location: Portions of Sections 1, 2, 11 and 12, T3N, R8W and Section 7, T3N, R7W, W.M., Tillamook County, Oregon.

Date: 6/14/05

Stand Stocking: 20%

Species	Avg. DBH	Amortized%	Recovery%
Douglas - Fir	16	0	95
Western Hemlock / Fir	14	0	95

Volume by Grade	Douglas - Fir	Western Hemlock / Fir	Total
2S	417	946	1,363
3S	1,233	3,480	4,713
4S	286	1,081	1,367
Total	1,936	5,507	7,443

Comments: Pond Values Used: 1st Quarter 2005.

Cedar Stumpage = \$865.00/MBF (pond value) - \$293.83/MBF (logging cost) = \$571.17/MBF.

ADDITIONAL COSTS (Profit and Risk to be added)

Brand and Paint - \$2/MBF x 11,368MBF = \$ 22,736
Conifer Brand and Paint - \$2/MBF x 7,443MBF = \$ 14,886

TOTAL OTHER COSTS + (P/R) = \$14,886

ADDITIONAL COSTS (Profit and Risk Included)

Non-Project Roads - (Seeding included)

Road 1: 6 Stations x \$100/ Station = \$600
Road 2: 6.5 Stations x \$180/Station = \$ 1170
Road 3: 5.5 Stations x \$130/ Station = \$715
Road 4: 1.5 Stations x \$130/Station = \$ 195
Road 5: 1.5 Stations x \$130/ Station = \$195
Road 6: 3 Stations x \$130/Station = \$ 390
Road 7: 9 Stations x \$130/ Station = \$1170
Road 8: 6 Stations x \$200/Station = \$ 1200
Side cast pull back has been costed for 2 stations.
Road 9: 5 Stations x \$180/Station = \$ 900
Road 10: 6 Stations x \$200/ Station = \$1200
Road 11: 2 Stations x \$180/Station = \$ 360

Rock for Non-project Roads - Pit Run Rock

Road numbers 8, 9, 10, and 11 = 19 stations x 50 c.y./station x \$6.38/c.y. = \$6061

Rock for Landings adjacent to rock roads - Pit Run Rock

22 Landings x 20 c.y./landing x 6.38/c.y. = \$2807

TOTAL OTHER COSTS = \$16,963

65% TOTAL OTHER COSTS (CONIFER) = \$11,026

ROAD MAINTENANCE

Grading - once per 2 MMBF

Maintenance \$500/Mile x 3.7 miles x 5.7 gradings / (11,368) = \$.93

Maintenance Rock - approximately 25cu. yds./MMBF/Mile

25 cu. yds. x 3.7 miles x \$17.30/yard x 11.368 / (11,368) = \$1.60

TOTAL MAINTENANCE COST = \$2.53

65% TOTAL MAINTENANCE COST (CONIFER) = \$1.64



Timber Sale Appraisal Logging Conditions South Burma - Conifer Sale 341-06-15

"STEWARDSHIP IN FORESTRY"

Combination#: 1	Douglas - Fir	31.35%	
	Western Hemlock / Fir	32.74%	
Yarding Distance:	Medium (800 ft)		Downhill Yarding: No
Logging System:	Cable: Large Tower >=70		Process: Manual Delimiting
Tree Size:	Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF		
Loads/Day:	5		Bd. Ft./Load: 3,400
Cost/MBF:	\$208.82		
Machines:	Log Loader (A)		
	Tower Yarder (Large)		
Combination#: 2	Douglas - Fir	43.86%	
	Western Hemlock / Fir	41.30%	
Yarding Distance:	Medium (800 ft)		Downhill Yarding: No
Logging System:	Cable: Medium Tower >40 - <70		Process: Manual Delimiting
Tree Size:	Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF		
Loads/Day:	4		Bd. Ft./Load: 3,400
Cost/MBF:	\$243.87		
Machines:	Log Loader (A)		
	Tower Yarder (Medium)		
Combination#: 3	Douglas - Fir	11.39%	
	Western Hemlock / Fir	11.98%	
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:	6		Bd. Ft./Load: 3,400
Cost/MBF:	\$160.07		
Machines:	Log Loader (B)		
	Track Skidder		
Combination#: 4	Douglas - Fir	13.39%	
	Western Hemlock / Fir	13.98%	
Yarding Distance:	Short (400 ft)		Downhill Yarding: Yes
Logging System:	Shovel		Process: Manual Delimiting
Tree Size:	Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF		
Loads/Day:	7		Bd. Ft./Load: 3,400
Cost/MBF:	\$97.55		
Machines:	Shovel Logger		



Timber Sale Appraisal Logging Costs South Burma - Conifer Sale 341-06-15

"STEWARDSHIP IN FORESTRY"

Date: 6/14/05

Operating Seasons: 2.0

Profit & Risk: 15%

Project Costs: \$0

Other Costs (P/R): \$14,886

Slash Disposal: \$0

Other Costs: \$11,026

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

Road Maintenance: \$1.64

Hauling Costs

Species	\$/MBF	Trips/Day	MBF/Load
Douglas - Fir	\$0.00	2.0	3.5
Western Hemlock / Fir	\$0.00	3.0	3.3



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Logging Costs Breakdown South Burma - Conifer Sale 341-06-15

Costs	Douglas - Fir	Western Hemlock / Fir
Logging	203.74	201.91
Road Maintenance	1.73	1.73
Fire Protection	0.73	0.73
Hauling	69.16	46.11
Other (P/R appl.)	2.00	2.00
Profit & Risk	41.60	37.87
Slash Disposal	0.00	0.00
Scaling	2.00	2.00
Other	1.48	1.48
Total	322.44	293.83

Amortization	0.00	0.00
Pond Value	625.11	433.99
Stumpage	302.67	140.16
Amortized	0.00	0.00



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Summary South Burma - Conifer Sale 341-06-15

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	1,936.00	5,507.00
Value	302.67	140.16
Total	585,969.12	771,861.12

Gross Timber Sale Value

Recovery \$1,357,830.24

Prepared by: Jacob Phillips

Date: 6/14/05

District: Tillamook

Phone: (503) 842-2545



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Cost Summary South Burma-Hardwood Sale 341-06-15

District: Tillamook

Date: 6/14/05

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$0.00	\$1,265,145.25	\$1,265,145.25
		Project Work	(\$525,480.00)
		Advertised Value	\$739,665.25



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Timber Description South Burma-Hardwood Sale 341-06-15

District: Tillamook

Location: Portions of Sections 1, 2, 11 and 12, T3N, R8W and Section 7, T3N, R7W, W.M., Tillamook County, Oregon.

Date: 6/14/05

Stand Stocking: 20%

Species	Avg. DBH	Amortized%	Recovery%
Alder (Red)	14	0	90

Volume by Grade	Alder (Red)	Total
Camprun	3,925	3,925
Total	3,925	3,925

Comments: Pond Values Used: 1st Quarter 2005.

Cedar Stumpage = \$865.00/MBF (pond value) - \$293.83/MBF (logging cost) = \$571.17/MBF.

ADDITIONAL COSTS (Profit and Risk to be added)

Brand and Paint - \$2/MBF x 11,368MBF = \$ 22,736
Hardwood Brand and Paint - \$2/MBF x 3,925MBF = \$ 7,850

TOTAL OTHER COSTS + (P/R) = \$7,850

ADDITIONAL COSTS (Profit and Risk Included)

Non-Project Roads - (Seeding included)

Road 1: 6 Stations x \$100/ Station = \$600
Road 2: 6.5 Stations x \$180/Station = \$ 1170
Road 3: 5.5 Stations x \$130/ Station = \$715
Road 4: 1.5 Stations x \$130/Station = \$ 195
Road 5: 1.5 Stations x \$130/ Station = \$195
Road 6: 3 Stations x \$130/Station = \$ 390
Road 7: 9 Stations x \$130/ Station = \$1170
Road 8: 6 Stations x \$200/Station = \$ 1200
Side cast pull back has been costed for 2 stations.
Road 9: 5 Stations x \$180/Station = \$ 900
Road 10: 6 Stations x \$200/ Station = \$1200
Road 11: 2 Stations x \$180/Station = \$ 360

Rock for Non-project Roads - Pit Run Rock

Road numbers 8, 9, 10, and 11 = 19 stations x 50 c.y./station x \$6.38/c.y. = \$6061

Rock for Landings adjacent to rock roads - Pit Run Rock

22 Landings x 20 c.y./landing x 6.38/c.y. = \$2807

TOTAL OTHER COSTS = \$16,963

35% TOTAL OTHER COSTS (HARDWOOD) = \$ 5,937

ROAD MAINTENANCE

Grading - once per 2 MMBF

Maintenance \$500/Mile x 3.7 miles x 5.7 gradings / (11,368) = \$.93

Maintenance Rock - approximately 25cu. yds./MMBF/Mile

25 cu. yds. x 3.7 miles x \$17.30/yard x 11.368 / (11,368) = \$1.60

TOTAL MAINTENANCE COST = \$2.53

35% TOTAL MAINTENANCE COST (HARDWOOD) = \$.89



Timber Sale Appraisal Logging Conditions South Burma-Hardwood Sale 341-06-15

"STEWARDSHIP IN FORESTRY"

Combination#: 1	Alder (Red)	30.77%	
Yarding Distance:	Medium (800 ft)		Downhill Yarding: No
Logging System:	Cable: Large Tower >=70		Process: Manual Delimiting
Tree Size:	Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF		
Loads/Day:	5		Bd. Ft./Load: 3,400
Cost/MBF:	\$208.82		
Machines:			
	Log Loader (A)		
	Tower Yarder (Large)		
Combination#: 2	Alder (Red)	44.92%	
Yarding Distance:	Medium (800 ft)		Downhill Yarding: No
Logging System:	Cable: Medium Tower >40 - <70		Process: Manual Delimiting
Tree Size:	Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF		
Loads/Day:	4		Bd. Ft./Load: 3,400
Cost/MBF:	\$243.87		
Machines:			
	Log Loader (A)		
	Tower Yarder (Medium)		
Combination#: 3	Alder (Red)	11.15%	
Yarding Distance:	Short (400 ft)		Downhill Yarding: Yes
Logging System:	Track Skidder		Process: Manual Felling/Delimiting
Tree Size:	Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF		
Loads/Day:	6		Bd. Ft./Load: 3,400
Cost/MBF:	\$160.07		
Machines:			
	Log Loader (B)		
	Track Skidder		
Combination#: 4	Alder (Red)	13.15%	
Yarding Distance:	Short (400 ft)		Downhill Yarding: Yes
Logging System:	Shovel		Process: Manual Delimiting
Tree Size:	Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF		
Loads/Day:	7		Bd. Ft./Load: 3,400
Cost/MBF:	\$97.55		
Machines:			
	Shovel Logger		



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Logging Costs South Burma-Hardwood Sale 341-06-15

Date: 6/14/05

Operating Seasons: 2.0

Profit & Risk: 15%

Project Costs: \$525,480

Other Costs (P/R): \$7,850

Slash Disposal: \$0

Other Costs: \$5,937

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

Road Maintenance: \$0.89

Hauling Costs

Species	\$/MBF	Trips/Day	MBF/Load
Alder (Red)	\$0.00	3.0	3.4



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Logging Costs Breakdown South Burma-Hardwood Sale 341-06-15

Costs	Alder (Red)
Logging	204.49
Road Maintenance	0.99
Fire Protection	1.38
Hauling	48.67
Other (P/R appl.)	2.00
Profit & Risk	38.63
Slash Disposal	0.00
Scaling	0.00
Other	1.51
Total	297.67

Amortization	0.00
Pond Value	620.00
Stumpage	322.33
Amortized	0.00



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Summary South Burma-Hardwood Sale 341-06-15

Amortized

	Alder (Red)
MBF	0.00
Value	0.00
Total	0.00

Unamortized

	Alder (Red)
MBF	3,925.00
Value	322.33
Total	1,265,145.25

Gross Timber Sale Value

Recovery \$1,265,145.25

Prepared by: Jacob Phillips

Date: 6/14/05

District: Tillamook

Phone: (503) 842-2545

159

PROJECT SUMMARY SHEET

Sale: South Burma Date: Jun. 14 2005

Construction -

Point	A - B	20+40	stations =	\$51,615.00
Point	E - F	10+20	stations =	\$4,788.17
Point	I - J	9+00	stations =	\$2,769.75
Point	K - L	2+00	stations =	\$2,587.52
Point			stations =	\$0.00
			SUB TOTAL	\$61,760.44

Improvement -

Point	A - B	125+55	stations =	\$246,166.95
Point	C - D	50+90	stations =	\$121,687.95
Point	G - H	95+00	stations =	\$70,716.16
Point	M - N	17+35	stations =	\$22,263.24
			SUB TOTAL	\$460,834.30

Special Projects -

Ditchout Trench @ Point O	\$50.00
	\$0.00
SUB TOTAL	\$50.00

Move - In -

Construction Move-In

Grader	\$208.41
2 Excavators	\$1,263.56
1 D-7	\$394.10
1 D-8	\$530.00
Fire Truck	\$95.96
3 Dump Trucks	\$343.08
SUB TOTAL	\$2,835.11

GRAND TOTAL \$525,479.85

Sale: South Burma Road: Points A - B Burma Road
 Construction - 20+40 stations Improvement - 125+55 stations
0.39 miles 2.38 miles

CLEARING AND GRUBBING -

Scattering 8.00 acres @ \$815.00 per acre = \$6,520.00
TOTAL CLEARING AND GRUBBING \$6,520.00

EXCAVATION -

Excavator 68 hr.s @ \$140.00 per hr. = \$9,520.00
 Cat 49 hr.s @ \$140.00 per hr. = \$6,860.00
 85.55 sta. @ \$65.00 per sta. = \$5,560.75

NEW CONSTRUCTION

Exca. & Fill 4001 cys. @ \$2.35 per c.y. = \$9,402.35

FILL WASHOUT

Fill from New Const. 141 cys. @ \$2.55 per c.y. = \$359.55

Borrow & Fill 1059 cys. @ \$2.60 per c.y. = \$2,753.40

EXCAVATION w/ FILL

38+20-40+52 491 cys. @ \$1.45 per c.y. = \$711.95

61+48 316 cys. @ \$1.45 per c.y. = \$458.20

END HAULING

38+20-40+52 92 cys. @ \$2.00 per c.y. = \$184.00

43+40-44+00 528 cys. @ \$1.95 per c.y. = \$1,029.60

Road Widening 2627 cys. @ \$2.40 per c.y. = \$6,304.80

ROAD/FILL RECONST. 116+27 TO 120+52

Exca. & Fill 1314 cys. @ \$1.95 per c.y. = \$2,562.30

Exca & End Haul 1855 cys. @ \$2.85 per c.y. = \$5,286.75

Sidecast Pullback 142 cys. @ \$2.40 per c.y. = \$340.80

TOTAL EXCAVATION \$51,334.45

CULVERTS -

Culverts Plus Installation

			1144 LF of 24" \$20,306.00
138 LF of 30"	\$4,278.00	64 LF of 36"	\$2,339.20
	<u>\$4,278.00</u>		<u>\$22,645.20</u>

Half Rounds

0 LF of 21"	\$0.00	140 LF of 30"	\$3,038.00
10 LF of 36"	\$240.00	0 LF of 42"	\$3,038.00
	<u>\$240.00</u>		<u>\$6,076.00</u>

Culverts -- Materials Only

94 LF of 42"	\$4,427.40	58 LF of 48"	\$2,913.34
0 LF of 54"	\$0.00	0 LF of 60"	\$0.00
	<u>\$4,427.40</u>		<u>\$2,913.34</u>

Culvert Stakes

30 1/2 round stakes @	\$8.00 per stake=	\$240.00
38 marker stakes @	\$8.00 per stake=	<u>\$304.00</u>

TOTAL CULVERT MATERIALS \$41,123.94

SURFACING-

4" Depth	2,703 cy. of	2"-0"Crshd @	\$16.82 per c.y.=	\$45,464.46
CrvWiden	180 cy. of	2"-0"Crshd @	\$16.82 per c.y.=	\$3,027.60
20Trmouts	124 cy. of	2"-0"Crshd @	\$16.82 per c.y.=	\$2,085.68
SmTurnmd	10 cy. of	2"-0"Crshd @	\$16.82 per c.y.=	<u>\$168.20</u>

TOTAL SURFACING \$50,745.94

SURFACING-

8" Depth	5,622 cy. of	4"-0"Crshd @	\$16.82 per c.y.=	\$94,562.04
CrvWiden	368 cy. of	4"-0"Crshd @	\$16.82 per c.y.=	\$6,189.76
20Trmouts	260 cy. of	4"-0"Crshd @	\$16.82 per c.y.=	\$4,373.20
SmTurnmd	21 cy. of	4"-0"Crshd @	\$16.82 per c.y.=	<u>\$353.22</u>

TOTAL SURFACING \$105,478.22

SUMMARY OF CONSTRUCTION COST

Sale:	<u>South Burma</u>		Road:	<u>Points A - B Burma Road</u>	
Construction -	<u>20+40</u>	stations	Improvement -	<u>125+55</u>	stations
	<u>0.39</u>	miles		<u>2.38</u>	miles
MISCELLANEOUS-					
Armor	280	cy. of	Riprap	@	\$17.94 per c.y.= \$5,023.20
Bedding Rock	100	cy. of	2"-0"Crshd	@	\$16.07 per c.y.= \$1,607.00
Subgrade					
Repair	190	cy. of	Pit Run	@	\$7.09 per c.y.= \$1,347.10
Drain Rock Fill Base: 3' Depth					
Stas.6+90-8+00	580	cy. of	Drain Rock	@	\$10.63 per c.y.= \$6,165.40
Ditch Armor	103	cy. of	Pit Run	@	\$7.09 per c.y.= \$730.27
Free Drain:					
119+40					
Blanket Rock	49	cy. of	2"-0"Crshd	@	\$16.07 per c.y.= \$787.43
24"-6" Drain Rock:	216	cy. of	Drain Rock	@	\$14.54 per c.y.= \$3,140.64
39+88					
Blanket Rock	66	cy. of	2"-0"Crshd	@	\$16.07 per c.y.= \$1,060.62
24"-6" Drain Rock:	92	cy. of	Drain Rock	@	\$11.75 per c.y.= \$1,081.00
French Drain:					
1 7/8"-2"	90	cy. of	Drain Gravel	@	\$22.58 per c.y.= \$2,032.20
TOTAL MISCELLANEOUS					\$22,974.86
SPECIAL PROJECTS					
Logging Costs For R-O-W Wood on Private Property					\$6,626.00
Cut Snag: Sta. 98+35					\$50.00
French Drain Fabric: \$1.40 x 84 Square Yards					\$126.00
90 Ft of 10" Factory Perforated Polyethylene Drain Pipe					\$859.50
Base Fabric: 6+90 to 8+00: \$1.10 x 513 Square Yards					\$564.30
Subgrade Fabric: 4+45 - 24+85: \$1.10 x 4,306 Sq. Yd.s					\$4,736.60
Remove Old Growth Stump: Sta. 125+40					\$75.00
Grade Road: \$14.20/sta.					\$652.49
Roll Subgrade: \$11/sta.					\$505.45
Free Drain Fabric: 1055 Sq. Yd.s @ \$1.40/cy					\$1,369.20
Remove Old Culverts From State Land					\$360.00
Develop Waste Areas					\$400.00
Grass Seed, Fertilize & Mulch Areas of Disturbed Soil: 4 Acres @ \$820/ac.					\$3,280.00
TOTAL SPECIAL PROJECTS					\$19,604.54
GRAND TOTAL					\$297,781.95

SUMMARY OF CONSTRUCTION COST

Sale: South Burma Road: Points C - D

Construction - 0.00 stations miles Improvement - 50+90 stations miles
0.96 miles

CLEARING AND GRUBBING -

Scattering 1.90 acres @ \$815.00 per acre = \$1,548.50
 TOTAL CLEARING AND GRUBBING \$1,548.50

EXCAVATION -

Excavator	38 hr.s @	\$140.00 per hr. =	\$5,320.00	
Dump Truck	22 hr.s @	\$60.00 per hr. =	\$1,320.00	
	0.00 sta. @	\$65.00 per sta. =	\$0.00	
Road Widening	7713 cys. @	\$2.96 per c.y. =	\$22,830.48	
	7713 cys. @	\$3.95 per c.y. =	\$30,466.35	
Sidecast Pullback	1593 cys. @	\$3.95 per c.y. =	\$6,292.35	
		TOTAL EXCAVATION		\$66,229.18

CULVERT MATERIALS & INSTALLATION

Culverts

0 LF of 18"	\$0.00	230 LF of 24"	\$5,175.00
		30 LF of 36"	\$1,036.50
	<u>\$0.00</u>		<u>\$5,175.00</u>

Half Rounds

0 LF of 21"	\$0.00	30 LF of 30"	\$651.00
	<u>\$0.00</u>		<u>\$651.00</u>

Culvert Stakes

6 1/2 round stakes @	\$8.00 per stake =	\$48.00
9 marker stakes @	\$8.00 per stake =	\$72.00

TOTAL CULVERT MATERIALS \$5,946.00

SURFACING-

9" Depth	2,227 cy. of	4"-0"Crshd @	\$18.11 per c.y. =	\$40,330.97
CrvWiden	120 cy. of	4"-0"Crshd @	\$18.11 per c.y. =	\$2,173.20
7Tmouts	104 cy. of	4"-0"Crshd @	\$18.11 per c.y. =	\$1,883.44
SmTurnrd	24 cy. of	4"-0"Crshd @	\$18.11 per c.y. =	\$434.64
		TOTAL SURFACING		\$44,822.25

MISCELLANEOUS-

Bedding Rock

Sta 3+70	10 cy. of	2"-0"Crshd @	\$17.36 per c.y. =	\$173.60
		TOTAL MISCELLANEOUS		\$173.60

SPECIAL PROJECTS

Grade Road: \$9.75/sta.	\$496.28
Roll Subgrade: \$11/sta.	\$559.90
Seed, Fertilize and Mulch Areas of Disturbed Soil: 1.9 Acres @ \$820/ac.	\$1,558.00
Remove Old Culverts From State Land	\$354.24
TOTAL SPECIAL PROJECTS	\$2,968.42

GRAND TOTAL **\$121,687.95**

SUMMARY OF CONSTRUCTION COST

Sale: South Burma Road: Points M - N

Construction - 0.00 stations miles Improvement - 17+35 stations miles
0.00 miles 0.33 miles

CLEARING AND GRUBBING -

Scattering 0.80 acres @ \$815.00 per acre = \$652.00
TOTAL CLEARING AND GRUBBING \$652.00

EXCAVATION -

Excavator 18 hr.s @ \$140.00 per hr. = \$2,520.00
 Cat 14 hr.s @ \$140.00 per hr. = \$1,960.00
 Dump Truck 17 hr.s @ \$60.00 per hr. = \$1,020.00
 15.85 sta. @ \$55.00 per sta. = \$871.75
TOTAL EXCAVATION \$6,371.75

CULVERTS -

Culverts and Materials

0 LF of 18" \$0.00	64 LF of 24" \$1,440.00
32 LF of 30" <u>\$992.00</u>	0 LF of 36" <u>\$0.00</u>
<u>\$992.00</u>	<u>\$1,440.00</u>

Culvert Materials Only

62 LF of 42" \$2,394.44	0 LF of 48" \$0.00
0 LF of 54" <u>\$0.00</u>	0 LF of 60" <u>\$0.00</u>
<u>\$2,394.44</u>	<u>\$0.00</u>

Half Rounds

0 LF of 21" \$0.00	10 LF of 30" \$21.70
10 LF of 36" <u>\$240.00</u>	0 LF of 42" <u>\$21.70</u>
<u>\$240.00</u>	<u>\$43.40</u>

Culvert Stakes

4 1/2 round stakes @ \$8.00 per stake= \$32.00
4 marker stakes @ \$8.00 per stake= <u>\$32.00</u>

TOTAL CULVERT MATERIALS \$5,173.84

SURFACING: 0+00 - 2+00

10" Depth 88 cy. of 4"-0"Crshd @ \$16.41 per c.y.= \$1,444.08

SURFACING W/ CURVE WIDENING: 11+50 to 12+75

10" Depth 112 cy. of 4"-0"Crshd @ \$16.41 per c.y.= \$1,837.92

TOTAL SURFACING \$3,282.00

MISCELLANEOUS-

Widen Road 20 cy. of Pit Run @ \$6.60 per c.y.= \$132.00
100 cy. of Riprap @ \$16.00 per c.y.= \$1,600.00

Culvert Backfill 90 cy. of 2"-0"Crshd @ \$15.33 per c.y.= \$1,379.70
--

Free Drain Drain Rock 163 cy. of 24"-6" @ \$12.24 per c.y.= \$1,995.12
Blanket Rock 54 cy. of 2"-0"Crshd @ \$15.33 per c.y.= <u>\$827.82</u>

TOTAL MISCELLANEOUS \$5,934.64

SPECIAL PROJECTS

Grade Road: \$9.75/sta. \$169.16

Roll Subgrade: \$11/sta. \$190.85

Nonwoven Fabric For Free Drain: 115 Square Yards @ \$1.40/sq. yd. \$161.00

Grass Seed, Fertilize & Mulch Areas of Disturbed Soil: \$820/ac. \$328.00

TOTAL SPECIAL PROJECTS \$849.01

GRAND TOTAL \$22,263.24

SUMMARY OF CONSTRUCTION COST

Sale: South Burma Road: Points K to L

Construction - 2+00 stations Improvement - stations
0.04 miles 0.00 miles

CLEARING AND GRUBBING -
 Scattering 0.10 acres @ \$815.00 per acre = \$81.50
 TOTAL CLEARING AND GRUBBING \$81.50

EXCAVATION -
 Excavator 5 hr.s @ \$140.00 per hr. = \$700.00
 TOTAL EXCAVATION \$700.00

CULVERT MATERIALS & INSTALLATION

Culverts
 0 LF of 18" \$0.00 30 LF of 24" \$532.50
\$0.00 \$532.50

Culvert Stakes
 0 1/2 round stakes @ \$8.00 per stake = \$0.00
 1 marker stakes @ \$8.00 per stake = \$8.00
 TOTAL CULVERT MATERIALS \$540.50

SURFACING-
 12" Depth 127 cy. of Pit Run @ \$6.38 per c.y. = \$810.26
 CrvWiden 20 cy. of Pit Run @ \$6.38 per c.y. = \$127.60
 Trmouts cy. of Pit Run @ \$6.38 per c.y. = \$0.00
 SmTurnrnd 32 cy. of Pit Run @ \$6.38 per c.y. = \$204.16
 TOTAL SURFACING \$1,142.02

SPECIAL PROJECTS
Grade Road: \$9.75/sta. \$19.50
Roll Subgrade: \$11/sta. \$22.00
Grass Seed, Fertilize and Mulch Distrubed Soil: .1 Acrea @ \$820/ac. \$82.00
\$0.00
 TOTAL SPECIAL PROJECTS \$123.50

GRAND TOTAL **\$2,587.52**

SUMMARY OF CONSTRUCTION COST

Sale:	<u>South Burma</u>	Road:	<u>Points I - J</u>
Construction -	<u>9+00</u> stations <u>0.17</u> miles	Improvement -	<u>0.00</u> stations <u>0.00</u> miles
CLEARING AND GRUBBING -			
Scattering	0.80 acres @	\$815.00 per acre =	<u>\$652.00</u>
		TOTAL CLEARING AND GRUBBING	\$652.00
EXCAVATION -			
	9.00 sta. @	\$120.00 per sta. =	<u>\$1,080.00</u>
		TOTAL EXCAVATION	\$1,080.00
SPECIAL PROJECTS			
Remove 3 Old Growth Stumps			\$195.00
Grade Road: \$9.75/sta.			\$87.75
Roll Subgrade: \$11/sta.			\$99.00
Grass Seed, Fertilize and Mulch Areas of Distrubed Soil: .8 Acres @ \$820/ac.			\$656.00
		TOTAL SPECIAL PROJECTS	\$1,037.75
		GRAND TOTAL	\$2,769.75

SUMMARY OF CONSTRUCTION COST

Sale: South Burma Road: Points G - H

Construction - 0.00 stations miles Improvement - 95+00 stations miles
0.00 miles 1.80 miles

CLEARING AND GRUBBING -
 Scattering 3.50 acres @ \$815.00 per acre = \$2,852.50
 TOTAL CLEARING AND GRUBBING \$2,852.50

EXCAVATION -
 Excavator 88 hr.s @ \$140.00 per hr. = \$12,320.00
 Dump Truck 52 hr.s @ \$60.00 per hr. = \$3,120.00
 Widening 95.00 sta. @ \$65.00 per sta. = \$6,175.00
 6818 cys. @ \$2.81 per c.y. = \$19,158.58
 TOTAL EXCAVATION \$40,773.58

CULVERTS -
 Culverts and Installation
 0 LF of 18" \$0.00 172 LF of 24" \$3,870.00
 0 LF of 30" \$0.00 130 LF of 36" \$4,680.00
 Culvert Materials Only
 100 LF of 42" \$3,858.00 50 LF of 48" \$2,192.50
 60 LF of 54" \$3,165.60 0 LF of 60" \$0.00
\$7,023.60 \$10,742.50
 Culvert Stakes
 0 1/2 round stakes @ \$8.00 per stake = \$0.00
 10 marker stakes @ \$8.00 per stake = \$80.00
 TOTAL CULVERT MATERIALS \$17,846.10

SURFACING-
 9" Depth 131 cy. of 4"-0"Crshd @ \$15.83 per c.y. = \$2,073.73
 TOTAL SURFACING \$2,073.73

MISCELLANEOUS-
 Energy Dissipators 50 cy. of Riprap @ \$16.42 per c.y. = \$821.00
 Bedding Rock
 5 Culverts 100 cy. of 2"-0"Crshd @ \$15.08 per c.y. = \$1,508.00
 TOTAL MISCELLANEOUS \$2,329.00

SPECIAL PROJECTS
 Grade Road: \$9.75/sta. \$926.25
 Roll Subgrade: \$11/sta. \$1,045.00
 Fertilize, Grass Seed and Mulch Areas of Disturbed Soil: 3.5 Acres @ \$820/ac. \$2,870.00
 TOTAL SPECIAL PROJECTS \$4,841.25

GRAND TOTAL **\$70,716.16**

SUMMARY OF CONSTRUCTION COST

Sale: South Burma Road: Points E - F

Construction - 10+20 stations Improvement - stations
0.19 miles 0.00 miles

CLEARING AND GRUBBING -

Scattering 1.00 acres @ \$815.00 per acre = \$815.00
 TOTAL CLEARING AND GRUBBING \$815.00

EXCAVATION -

10.20 sta. @ \$100.00 per sta. = \$1,020.00
 0 cys. @ \$0.00 per c.y. = \$0.00
 TOTAL EXCAVATION \$1,020.00

SURFACING-

12" Depth	612	cy. of	Pit Run	@	\$4.43 per c.y.=	\$2,711.16
CrvWiden	0	cy. of	Pit Run	@	\$4.43 per c.y.=	\$0.00
1Tmouts	20	cy. of	Pit Run	@	\$4.43 per c.y.=	\$88.60
SmTurnrnd	32	cy. of	Pit Run	@	\$4.43 per c.y.=	\$141.76
					TOTAL SURFACING	\$2,941.52

SPECIAL PROJECTS

Grade Road: \$9.75/sta.	\$99.45
Roll Subgrade: \$11/sta.	\$112.20
Grass Seed, Fertilize & Mulch Areas of Disturbed Soil: \$820/ac. X 1 Acre	\$820.00
	\$0.00
TOTAL SPECIAL PROJECTS	\$1,031.65

GRAND TOTAL \$4,788.17

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

SALE: SOUTH BURMA

Pit: <u>Sibley</u>	Location: <u>NE 1/4 S21 T3N R8W</u>
Rock: <u>2"-0", 4"-0"</u>	Road: <u>12094 c.y.</u>
Swell: <u>1.30</u>	Miscellaneous: <u>415 c.y.</u>
Drill Pct.: <u>100%</u>	Total Truck Loads: <u>12509 c.y.</u>
	In Place Total: <u>9622 c.y.</u>

Pit Development:				\$12,030.00
Drill & Shoot:	\$2.10 /cu.yd.	x	9622 cu.yds.	= \$20,206.20
Strip Rock:	\$1.50 /cu.yd.	x	0 cu.yds.	= \$0.00
Push Rock:	\$0.60 /cu.yd.	x	12509 cu.yds.	= \$7,505.40
Load Crusher:	\$0.60 /cu.yd.	x	12509 cu.yds.	= \$7,505.40
Crushing:	\$1.97 /cu.yd.	x	12509 cu.yds.	= \$24,642.73
Load Dump Truck:	\$0.60 /cu.yd.	x	12509 cu.yds.	= \$7,505.40
Oversize Reduction:	\$4.50 /cu.yd.	x	0 cu.yds.	= \$0.00
			Sub Total	\$79,395.13

MOVE IN	
Crusher	\$2,652.02
Drill & Compressor	\$159.06
Loader	\$510.84
Roller	\$159.06
Excavator	\$631.78
D-8	\$530.49
7 Dump Trucks	\$591.22
Change Gradation	\$207.00

TOTAL \$5,441.47

Base Cost= \$6.78 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
4"-0"						
A - B	\$8.74	\$1.30	\$6.78	\$16.82	6,271	\$105,478.22
C - D	\$10.03	\$1.30	\$6.78	\$18.11	2475	\$44,822.25
G - H	\$7.75	\$1.30	\$6.78	\$15.83	131	\$2,073.73
M - N	\$8.33	\$1.30	\$6.78	\$16.41	200	\$3,282.00
2"-0"						
A - B	\$8.74	\$1.30	\$6.78	\$16.82	3017	\$50,745.94
				Total C.Y.	12094	Sub Total \$206,402.14

Misc. Road Seg	Haul Cost /cu.yd.	Proc Cost /cu.yd.	Base Cst. /cu.yd.	Cost /cu.yd.	Number Cu.Yds.	ROCK COST
Crushed Bedding Rock						
A - B	\$8.74	\$0.55	\$6.78	\$16.07	100	\$1,607.00
C - D	\$10.03	\$0.55	\$6.78	\$17.36	10	\$173.60
G - H	\$7.75	\$0.55	\$6.78	\$15.08	100	\$1,508.00
Free Drain Blanket Rock						
A - B	\$8.74	\$0.55	\$6.78	\$16.07	115	\$1,848.05
Culvert Backfill						
M - N	\$8.00	\$0.55	\$6.78	\$15.33	90	\$1,379.70
Free Drain Blanket Rock						
M - N	\$8.00	\$0.55	\$6.78	\$15.33	54	\$827.82
				Total C.Y.	415	Sub Total \$6,516.35

Misc. Road Seg	Haul Cost /cu.yd.	Load & Place /cu.yd.	Excavate /cu.yd.	Cost /cu.yd.	Number Cu.Yds.	ROCK COST
Uncrushed						
A - B						
Riprap	\$12.44	\$2.80	\$2.70	\$17.94	280	\$5,023.20
Drain Rk.						
6+90 - 8+00	\$5.93	\$2.00	\$2.70	\$10.63	580	\$6,165.40
Free Drain 119+40						
Drain Rk.	\$9.84	\$2.00	\$2.70	\$14.54	216	\$3,140.64
Free Drain 39+88:						
Drain Rk.	\$7.05	\$2.00	\$2.70	\$11.75	216	\$2,538.00
G - H: Energy						
Dissipators	\$10.92	\$2.80	\$2.70	\$16.42	50	\$821.00
M - N						
Drain Rk.	\$7.54	\$2.00	\$2.70	\$12.24	163	\$1,995.12
Riprap	\$10.50	\$2.80	\$2.70	\$16.00	100	\$1,600.00
				Total C.Y.	1757	Sub Total \$17,688.24

TOTAL ROCKING COSTS = \$230,606.73

**PIT RUN PIT DEVELOPMENT AND STRIPPING COST SUMMARY
SALE: SOUTH BURMA**

Pit:	<u>South Burma</u>	Location:	<u>SE 1/4 SE 1/4 S12 T3N R8W</u>
Rock:	<u>PIT RUN</u>	Road:	<u>843 c.y.</u>
Swell:	<u>1.30</u>	Misc.	<u>313 c.y.</u>
Shrinkage	<u>1.16</u>	Total Truck Loads:	<u>1156 c.y.</u>
Drill Pct.:	<u>0%</u>	In Place Total:	<u>889 c.y.</u>

Pit Development:					\$200.00
Drill & Shoot:	\$1.90 /cu.yd.	x	0 cu.yds.	=	\$0.00
Strip Rock:	\$1.50 /cu.yd.	x	889 cu.yds.	=	\$1,333.50
Push Rock:	\$0.60 /cu.yd.	x	1156 cu.yds.	=	\$693.60
Load Dump Truck:	\$0.70 /cu.yd.	x	1156 cu.yds.	=	\$809.20
			Sub Total		\$3,036.30

Base Cost: \$2.63 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
E - F	\$0.85	\$0.95	\$2.63	\$4.43	664	\$2,941.52
K - L	\$2.80	\$0.95	\$2.63	\$6.38	179	\$1,142.02
			Total C.Y.		843	Sub Total \$4,083.54

Misc. Road Seg	Haul Cost /cu.yd.	Cost /cu.yd.	Base Cst. /cu.yd.	Cost /cu.yd.	Number Cu.Yds.	ROCK COST
Subgrade Repair						
A - B	\$3.91	\$0.55	\$2.63	\$7.09	190	\$1,347.10
Ditch Armor						
A - B	\$3.91	\$0.55	\$2.63	\$7.09	103	\$730.27
Subgrade Repair						
M - N	\$3.42	\$0.55	\$2.63	\$6.60	20	\$132.00
			Total C.Y.		313	Sub Total \$2,209.37

TOTAL ROCKING COSTS = \$6,292.91



OREGON DEPARTMENT OF FORESTRY CRUISE REPORT *South Burma*

1. Type of Sale

Partial cut and Retention cut

2. Legal Description

Sections 1, 2, 11, and 12, T3N, R8W, and Section 7, T3N, R7W, WM, Tillamook County, Oregon.

3. Sale Acreage

	ACRES	
	<u>Sale</u>	<u>Net</u>
Area 1 BOF (Partial Cut)	197	167
Area 1 CSL (Partial Cut)	251	210
Area 2 BOF (Retention Cut)	140	127
Area 2 CSL (Retention Cut)	23	19
Total	611	523

Sale Acres

Area within the Timber Sale Boundary signs

Net acres

Used for calculating the advertised volume.

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

Partial Cut - Same as above.

4. Cruising Procedures

A. Cruise Method

A total of 88 variable radius plots were taken; 50 in Area 1, and 38 in Area 2. Plots in Area 1 were spaced on a 500' x 600' grid and in Area 2 on a 300' x 450' grid. All conifers 8 inches DBH and greater and all hardwoods 10 inches DBH and greater were recorded on all plots. Species were recorded on all trees and they were graded and measured for merchantable height, diameter, and form factor.

B. Plot size

A basal area factor of 40 was used in both sale areas. The point of observation was at 4.5 feet.

C. Grading System

All trees were graded according to Columbia River Log Scaling and Grading Rules. Conifer trees were measured to a 6-inch top and hardwood trees were measured to an 8-inch top, both favoring 40-foot lengths. All heights were measured to the nearest foot. All diameters were measured at a height of 4.5 feet to the nearest 1-inch. Conifers less than 20 board feet and hardwoods less than 30 board feet were not recorded.

5. Computation Procedure

Plot data was entered into SuperAce for computation of basal area, stand tables, diameters, and volume to basal area ratio for each species and type. This data was then entered into the Volume Summary Worksheet to compute sale volumes.

6. Hidden Defect and Breakage

A 10% deduction was applied to the hardwood volume and a 5% deduction was applied to the conifer volume to account for the defect and breakage.

7. Timber Description

The eastern portion of the sale area burned in the 1945 Salmonberry fire and naturally regenerated. The remaining portions of the sale areas were naturally regenerated. These areas have had no prior stand management. The understory consists of sword fern, salmonberry, and vine maple. Swiss needle cast symptoms are very low with six to seven years of needle retention in the Douglas-fir. The Douglas-fir is expected to respond favorably to the thinning.

Area 1: Mixed stand of 60 year old Red alder with patches of hemlock and Douglas-fir scattered throughout.

Area 2: A mix of 40 to 70 year old hemlock, Douglas-fir, and alder.

8. Cruiser Names/Dates

Phillips, Winslow, Wells, Wilson / December 2004

9. Revenue Distribution

56% FDF 44% CSL

Tax Code: 56-1

Deed Numbers: 35,442

0% Rehabilitation Obligated

10. Attachments

Stand Table

Volume Summaries

Logging Plan

Stand Table Summary

Project S BURMA

T03N R08W S07 T0100

T03N R08W S07 T0100

Twp Rge Sec Tract
03N 08W 07 THIN_120_14

Type Acres Plots Sample Trees
0100 378.00 50 332

Page: 1
Date: 3/25/2001
Time: 10:00:02AM

S Spc	T	Av			Trees/ BA/ Logs			Average Log		Net			Totals		
		DBH	Sample Trees	FF 16'	Ht Tot	Acres	BA/ Acres	Logs Acres	Net Cu.Ft.	Net Bd.Ft.	Tons/ Acres	Net Cu.Ft. Acres	Net Bd.Ft. Acres	Tons	Cunits
WL	15	3	91	78	1.967	2.40	2.62	25.9	88.4	2.17	68	231	821	257	88
WL	16	3	89	114	1.757	2.40	3.53	26.4	116.3	2.98	93	410	1,128	352	155
WL	17	3	92	102	1.560	2.40	3.65	25.6	107.7	2.98	93	393	1,126	353	148
WL	18	3	87	101	1.364	2.40	3.20	29.1	112.5	2.98	93	360	1,126	353	136
WL	19	3	88	115	1.272	2.40	2.97	33.4	128.3	3.18	99	382	1,201	375	144
WL	20	3	91	112	1.112	2.40	2.61	40.6	181.2	3.39	106	473	1,283	401	179
WL	21	5	91	129	1.664	4.00	4.67	42.0	198.3	6.28	196	925	2,373	741	350
WL	22	7	93	119	2.142	5.60	5.81	44.9	212.6	8.36	261	1,236	3,160	987	467
WL	23	5	93	131	1.392	4.00	3.62	54.2	263.5	6.28	196	954	2,375	742	361
WL	24	4	90	113	1.023	3.20	2.05	66.9	293.5	4.39	137	601	1,658	518	227
WL	25	2	90	121	.474	1.60	1.42	52.8	228.6	2.40	75	325	905	284	123
WL	26	2	93	132	.439	1.60	1.32	62.9	334.8	2.65	83	441	1,003	313	167
WL	27	2	90	137	.404	1.60	1.21	65.7	330.7	2.55	80	401	963	301	151
WL	28	4	92	128	.742	3.20	2.03	77.1	395.2	5.02	157	804	1,899	593	304
WL	29	2	93	127	.352	1.60	1.06	76.2	396.6	2.58	81	419	975	304	159
WL	30	2	94	158	.322	1.60	1.12	87.2	506.2	3.14	98	569	1,187	371	215
WL	31	1	87	138	.149	.80	.45	84.3	390.0	1.20	38	174	455	142	66
WL	32	3	91	139	.426	2.40	1.28	100.1	539.7	4.09	128	690	1,546	483	261
WL	34	1	86	145	.128	.80	.39	102.3	520.0	1.26	39	200	476	149	76
WL	35	1	94	150	.121	.80	.48	96.3	602.5	1.49	47	292	564	176	110
WL	37	1	94	108	.107	.80	.21	158.6	865.0	1.09	34	185	411	128	70
WL	40	1	86	134	.092	.80	.18	190.4	920.0	1.12	35	169	422	132	64
WL	Totals	61	91	115	19.008	48.80	45.88	48.8	231.8	71.59	2,237	10,634	27,060	8,455	4,020
WH	8	1	83	62	2.236	.80	2.24	7.0	30.0	.50	16	67	190	59	25
WH	9	5	90	40	9.199	4.00	10.93	5.6	26.5	1.98	62	290	747	233	109
WH	10	4	90	55	6.173	3.20	6.17	10.0	39.8	1.98	62	246	749	234	93
WH	11	7	87	57	8.546	5.60	9.76	10.9	39.7	3.40	106	388	1,284	401	147
WH	12	6	89	83	6.142	4.80	8.08	15.5	57.8	4.00	125	467	1,513	473	177
WH	13	6	88	99	5.201	4.80	8.68	18.5	75.5	5.14	161	655	1,942	607	248
WH	14	7	91	103	5.405	5.60	10.04	21.1	92.3	6.80	212	926	2,569	801	350
WH	15	10	91	110	6.517	8.00	13.60	23.9	106.8	10.42	325	1,453	3,939	1,230	549
WH	16	6	92	104	3.433	4.80	6.82	28.1	121.6	6.14	192	830	2,320	725	314
WH	17	6	90	114	3.071	4.80	6.14	33.5	142.5	6.58	206	875	2,488	777	331
WH	18	3	90	116	1.359	2.40	3.18	32.1	131.5	3.26	102	418	1,233	385	158
WH	19	2	92	126	.804	1.60	2.01	36.7	168.2	2.35	74	337	887	278	128
WH	20	5	89	115	1.865	4.00	4.47	37.6	163.1	5.38	168	728	2,034	636	275
WH	21	1	92	154	.323	.80	.97	46.8	236.7	1.45	45	230	549	172	87
WH	22	1	92	150	.317	.80	.95	45.9	220.0	1.40	44	209	528	165	79
WH	23	4	88	122	1.102	3.20	3.02	48.6	222.7	4.70	147	674	1,777	556	255
WH	24	1	93	118	.253	.80	.76	49.8	243.3	1.21	38	184	456	143	70
WH	30	1	93	161	.161	.80	.48	103.1	596.7	1.59	50	288	602	188	109
WH	Totals	76	89	82	62.106	60.80	98.30	21.7	94.3	68.27	2,133	9,265	25,806	8,063	3,502
RA	8	1	91	36	2.608	.80									
RA	10	8	93	37	11.406	6.40	11.41	8.0	33.7	2.52	92	384	954	347	145
RA	11	8	92	47	9.339	6.40	9.34	11.4	48.6	2.92	106	454	1,104	402	172
RA	12	12	93	57	12.485	9.60	11.45	15.7	68.8	4.93	179	788	1,864	678	298
RA	13	18	92	60	15.901	14.40	15.94	18.5	70.5	8.10	295	1,124	3,063	1,114	425
RA	14	14	92	62	10.535	11.20	11.25	22.0	85.6	6.80	248	964	2,569	936	364
RA	15	14	92	73	9.250	11.20	11.87	24.5	101.1	7.98	291	1,201	3,018	1,099	454
RA	16	12	91	80	7.043	9.60	12.31	23.6	102.4	8.00	291	1,260	3,025	1,100	476
RA	17	13	92	78	6.644	10.40	9.69	30.7	121.1	8.17	297	1,172	3,090	1,124	443

Stand Table Summary

Project S BURMA

T03N R08W S07 T0100

T03N R08W S07 T0100

Twp Rge Sec Tract
03N 08W 07 THIN_120_14

Type Acres Plots Sample Trees
0100 378.00 50 332

Page: 2
Date: 3/25/2001
Time: 10:00:02AM

S Spec	T	Av			Trees/ BA/ Logs			Average Log		Net			Totals			
		DBH	Sample Trees	FF Ht	16' Tot	Acres	Acres	Acres	Net Cu.Ft.	Net Bd.Ft.	Tons/ Acres	Net Cu.Ft.	Net Bd.Ft.	Tons	Cunits	MBF
RA		18	8	93	64	3.648	6.40	4.55	34.3	129.8	4.29	156	591	1,621	590	224
RA		19	5	93	61	2.029	4.00	2.83	35.1	127.6	2.73	99	361	1,032	376	136
RA		20	2	89	80	.726	1.60	1.45	33.7	137.6	1.34	49	200	508	185	76
RA		21	5	91	60	1.683	4.00	2.34	40.4	154.3	2.60	94	360	982	357	136
RA		22	1	92	44	.298	.80	.30	50.0	70.0	.41	15	21	153	56	8
RA		24	1	92	21	.255	.80									
RA		25	1	92	40	.227	.80	.23	59.0	70.0	.37	13	16	140	51	6
RA		28	1	92	51	.187	.80	.19	58.0	200.0	.30	11	37	113	41	14
RA	Totals		124	92	59	94.263	99.20	105.14	21.3	85.0	61.47	2,237	8,933	23,237	8,455	3,377
DL		15	1	88	89	.670	.80	1.34	19.9	80.0	.73	27	107	277	101	40
DL		16	1	88	93	.603	.80	1.21	23.7	95.0	.79	29	115	297	108	43
DL		17	1	72	82	.539	.80	1.08	23.3	55.0	.69	25	59	262	95	22
DL		18	1	86	121	.474	.80	.95	33.4	130.0	.87	32	123	329	120	47
DL		19	3	88	115	1.229	2.40	2.85	31.8	132.2	2.50	91	377	945	344	143
DL		20	3	85	128	1.097	2.40	2.55	37.5	149.1	2.63	96	380	994	361	144
DL		21	1	86	130	.329	.80	.66	45.9	180.0	.83	30	119	314	114	45
DL		22	1	90	133	.311	.80	.93	39.1	180.0	1.01	37	168	380	138	64
DL		24	6	87	121	1.526	4.80	3.81	52.3	226.1	5.48	199	860	2,070	753	325
DL		25	1	87	130	.231	.80	.69	51.1	220.0	.97	35	152	368	134	58
DL		26	1	89	132	.215	.80	.65	59.8	293.3	1.06	39	189	401	146	72
DL		27	4	89	126	.802	3.20	2.41	57.7	271.3	3.82	139	653	1,443	525	247
DL		28	2	88	141	.377	1.60	1.32	58.6	288.2	2.13	77	381	805	293	144
DL		29	2	87	127	.356	1.60	1.07	64.8	294.8	1.90	69	315	719	262	119
DL		30	1	87	125	.167	.80	.33	97.2	380.0	.90	33	127	339	123	48
DL		32	1	86	145	.141	.80	.42	82.9	386.7	.97	35	164	366	133	62
DL		37	1	88	178	.107	.80	.32	138.4	790.0	1.22	44	254	462	168	96
DL		40	1	87	168	.091	.80	.27	154.8	826.7	1.16	42	226	440	160	86
DL		46	1	87	169	.068	.80	.20	213.5	1190.0	1.20	44	243	454	165	92
DL	Totals		33	86	119	9.334	26.40	23.06	48.6	217.4	30.86	1,122	5,013	11,664	4,241	1,895
DF		8	1	88	59	2.079	.80	2.08	7.0	30.0	.42	15	62	158	55	24
DF		9	2	88	38	4.013	1.60	4.01	5.5	25.1	.63	22	101	237	83	38
DF		11	1	89	82	1.212	.80	2.42	8.2	35.0	.57	20	85	215	75	32
DF		12	1	88	103	1.053	.80	2.11	13.4	60.0	.80	28	126	303	106	48
DF		13	3	88	93	2.604	2.40	5.21	14.3	56.7	2.12	74	295	802	281	112
DF		14	1	88	85	.727	.80	1.45	16.7	70.0	.69	24	102	261	92	38
DF		15	6	88	108	3.888	4.80	7.78	22.7	96.7	5.04	177	752	1,904	667	284
DF		16	7	88	104	4.093	5.60	8.21	24.3	99.0	5.68	199	813	2,149	754	307
DF		17	1	88	117	.502	.80	1.00	32.3	135.0	.92	32	135	350	123	51
DF		18	1	86	104	.438	.80	.88	34.5	105.0	.86	30	92	326	114	35
DF		19	2	88	117	.808	1.60	1.62	38.8	155.0	1.79	63	251	675	237	95
DF		20	2	90	115	.723	1.60	1.45	44.6	190.0	1.84	64	275	694	243	104
DF		21	1	89	123	.320	.80	.96	35.7	166.7	.98	34	160	369	130	61
DF		22	1	90	105	.314	.80	.63	45.9	165.0	.82	29	104	311	109	39
DF		23	1	87	109	.277	.80	.55	53.7	215.0	.85	30	119	320	113	45
DF		32	2	87	169	.283	1.60	.85	102.1	545.0	2.47	87	463	934	328	175
DF	Totals		33	88	88	23.336	26.40	41.21	22.5	95.5	26.47	929	3,934	10,007	3,510	1,487
RC		26	1	81	63	.224	.80	.22	89.4	200.0	.47	20	45	178	76	17
RC		34	1	87	123	.131	.80	.26	111.5	500.0	.68	29	131	259	110	49
RC		50	1	80	107	.058	.80	.12	280.6	1275.0	.77	33	149	291	124	56

Leave

TC TSTNDSUM													Stand Table Summary		
Project S BURMA													T03N R08W S07 T0100		
T03N R08W S07 T0100													Page: 3		
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees				Date:	Time:			
03N	08W	07	THIN_120_14	0100	378.00	50	332				3/25/200:	10:00:02AM			
S Spc	T	Av			Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals		
		Sample DBH	FF Trees	Ht 16'				Tot	Net Cu.Ft.				Net Bd.Ft.	Tons	Cunits
RC	Totals	3	83	88	.413	2.40	.60	136.1	538.9	1.93	82	324	728	310	123
SS	9	1	90	31	1.660	.80	1.66	6.4	20.0	.28	11	33	104	40	13
SS	22	1	91	141	.298	.80	.89	49.1	236.7	1.14	44	211	431	166	80
SS	Totals	2	90	48	1.958	1.60	2.55	21.3	95.8	1.41	54	245	535	206	92
Totals		332	90	77	210.418	265.60	316.74	27.8	121.1	262.00	8794	38,348	99,037	33,240	14,496

Ave conifer leave trees - 31 tpa
 - 80.8; 2ft² basal area

Stand Table Summary

Project S BURMA

T03N R08W S07 T200

T03N R08W S07 T200

Twp Rge Sec Tract Type Acres Plots Sample Trees
03N 08W 07 AR_2_21_120 200 152.00 38 249

Page: 1
Date: 2/24/200!
Time: 2:22:41PM

Spc	T	Av			Trees/ BA/ Logs			Average Log		Net Net			Totals		
		DBH	Trees	16' Tot	Acres	Acres	Acres	Net Cu.Ft.	Net Bd.Ft.	Tons/ Acres	Cu.Ft. Acres	Bd.Ft. Acres	Tons	Cunits	MBF
WH	8	3	91	30	8.407	3.16	8.41	4.7	20.0	1.26	39	168	191	60	26
WH	9	5	86	52	11.999	5.26	12.00	7.9	32.0	3.00	94	384	456	143	58
WH	10	4	87	61	7.569	4.21	9.42	8.3	32.0	2.49	78	302	378	119	46
WH	11	4	89	75	6.505	4.21	9.73	11.1	46.6	3.47	108	453	527	165	69
WH	12	5	84	74	6.682	5.26	10.64	13.0	43.6	4.42	138	464	672	210	70
WH	13	4	89	94	4.522	4.21	6.74	19.8	78.5	4.27	133	529	649	203	80
WH	14	8	89	106	7.915	8.42	13.71	21.1	91.3	9.24	289	1,252	1,404	439	190
WH	15	11	87	101	9.606	11.58	18.35	22.8	92.1	13.43	419	1,691	2,041	637	257
WH	16	12	88	109	9.026	12.63	19.50	25.8	105.2	16.11	503	2,051	2,449	765	312
WH	17	11	88	112	7.480	11.58	16.36	28.0	112.6	14.67	458	1,843	2,230	696	280
WH	18	8	86	124	4.808	8.42	12.58	30.2	122.3	12.19	380	1,538	1,853	577	234
WH	19	9	89	116	4.888	9.47	11.98	32.9	134.6	12.58	394	1,613	1,913	598	245
WH	20	5	85	102	2.457	5.26	5.44	35.9	124.3	6.24	195	676	948	296	103
WH	21	6	88	126	2.635	6.32	7.03	40.2	172.1	9.04	282	1,209	1,375	429	184
WH	23	2	87	144	.736	2.11	2.21	47.2	213.2	3.34	104	471	507	158	72
WH	26	3	89	130	.870	3.16	2.62	60.0	276.5	5.03	157	724	764	239	110
WH	29	1	87	155	.223	1.05	.67	83.4	376.7	1.81	56	252	276	85	38
WH	32	1	87	146	.188	1.05	.38	115.0	425.0	1.39	43	160	211	66	24
WH	Totals	102	88	87	96.517	107.37	167.75	23.1	94.1	123.98	3,872	15,779	18,845	5,886	2,398
WL	21	1	88	119	.438	1.05	1.31	37.1	166.7	1.56	49	219	237	74	33
WL	22	5	88	123	2.024	5.26	5.66	42.1	189.1	7.63	238	1,070	1,159	362	163
WL	23	7	90	127	2.590	7.37	6.29	54.5	251.7	10.96	343	1,583	1,665	521	241
WL	24	2	90	133	.682	2.11	2.04	49.2	230.2	3.23	101	471	490	153	72
WL	25	2	90	134	.613	2.11	1.53	63.6	298.0	3.12	98	457	475	148	69
WL	26	4	86	129	1.138	4.21	2.84	65.7	274.1	5.98	187	779	908	284	118
WL	27	2	93	124	.550	2.11	1.10	81.6	407.5	2.87	90	448	436	136	68
WL	28	1	87	125	.250	1.05	.50	90.0	400.0	1.44	45	200	219	68	30
WL	29	3	89	130	.695	3.16	1.86	69.5	320.6	4.13	129	595	627	196	90
WL	31	1	90	100	.202	1.05	.40	99.3	360.0	1.29	40	146	196	61	22
WL	32	2	87	167	.379	2.11	1.33	82.8	419.9	3.58	110	559	544	167	85
WL	33	1	83	161	.183	1.05	.55	88.3	416.7	1.55	48	228	235	74	35
WL	36	1	82	140	.149	1.05	.30	79.2	345.0	.75	24	103	115	36	16
WL	40	1	87	167	.118	1.05	.35	161.9	930.0	1.84	57	330	279	87	50
WL	Totals	33	89	129	10.009	34.74	26.07	59.8	275.7	49.90	1,558	7,187	7,585	2,368	1,092
RA	10	2	84	33	3.785	2.11	3.78	6.7	20.0	.70	25	76	106	39	12
RA	11	2	83	58	3.346	2.11	3.35	10.5	44.8	.96	35	150	146	53	23
RA	12	7	83	66	9.479	7.37	10.82	15.1	56.6	4.50	164	612	683	249	93
RA	13	8	87	72	9.340	8.42	10.52	18.4	69.7	5.31	193	733	808	294	111
RA	14	5	89	73	4.869	5.26	7.78	17.4	72.3	3.73	136	563	568	206	86
RA	15	9	87	64	7.796	9.47	9.54	23.4	85.6	6.13	223	816	932	339	124
RA	16	7	88	74	5.300	7.37	7.55	26.4	96.4	5.51	199	728	837	303	111
RA	17	6	87	54	4.064	6.32	4.06	30.4	87.7	3.40	123	356	516	188	54
RA	18	9	88	68	5.369	9.47	8.33	29.6	96.3	6.78	246	802	1,031	375	122
RA	19	8	90	77	4.337	8.42	8.11	30.9	119.4	6.90	251	968	1,049	381	147
RA	20	5	91	80	2.453	5.26	3.93	36.8	138.4	3.98	145	544	605	220	83
RA	21	3	92	50	1.326	3.16	1.76	38.1	137.8	1.85	67	243	281	102	37
RA	22	1	81	62	.399	1.05	.40	70.9	180.0	.78	28	72	118	43	11
RA	23	1	92	50	.378	1.05	.38	61.3	220.0	.64	23	83	97	35	13
RA	24	1	85	95	.335	1.05	.67	58.5	230.0	1.08	39	154	164	60	23
RA	Totals	74	87	66	62.575	77.89	80.98	23.4	85.2	52.24	1,899	6,899	7,940	2,886	1,049

Stand Table Summary

Project S BURMA

T03N R08W S07 T200

T03N R08W S07 T200

Twp Rge Sec Tract
03N 08W 07 AR_2_21_120

Type Acres Plots Sample Trees
200 152.00 38 249

Page: 2
Date: 2/24/200!
Time: 2:22:41PM

S SpC	T	Sample			Av Ht	Trees/ BA/		Logs Acres	Average Log		Net Cu.Ft.	Net Bd.Ft.	Totals			
		DBH	Trees	16'		Tot	Acres		Acres	Tons/			Acres	Acres	Tons	Cunits
DF		11	1	83	62	1.655	1.05	1.65	14.8	60.0	.70	25	99	106	37	15
DF		12	1	85	72	1.340	1.05	1.34	18.5	70.0	.71	25	94	108	38	14
DF		13	1	86	97	1.125	1.05	2.25	17.0	65.0	1.09	38	146	165	58	22
DF		14	2	85	92	1.971	2.11	3.94	19.3	80.0	2.17	76	315	330	116	48
DF		15	1	85	95	.869	1.05	1.74	23.0	95.0	1.14	40	165	173	61	25
DF		16	1	87	104	.718	1.05	1.44	29.1	120.0	1.19	42	172	181	64	26
DF		18	6	87	103	3.550	6.32	7.10	31.7	120.9	6.42	225	858	975	342	130
DF		19	3	88	107	1.600	3.16	3.76	31.0	123.1	3.33	117	464	506	178	70
DF		20	7	87	117	3.433	7.37	8.35	34.4	132.3	8.28	287	1,105	1,259	437	168
DF		21	1	88	108	.459	1.05	.92	43.7	180.0	1.15	40	165	174	61	25
DF		26	1	86	148	.277	1.05	.83	60.4	273.3	1.43	50	227	217	76	35
DF		30	1	86	150	.214	1.05	.43	96.1	440.0	1.17	41	189	179	63	29
DF	Totals	26	86	99		17.211	27.37	33.75	29.8	118.5	28.78	1,006	4,000	4,374	1,530	608
DL		22	2	88	110	.798	2.11	1.60	46.9	155.0	2.06	75	247	313	114	38
DL		23	2	87	117	.730	2.11	1.82	49.2	198.2	2.46	89	360	374	136	55
DL		24	3	87	122	1.014	3.16	2.69	51.3	222.7	3.80	138	600	577	210	91
DL		26	2	86	130	.576	2.11	1.45	63.2	281.9	2.51	91	407	382	139	62
DL		29	2	86	137	.457	2.11	1.37	72.2	361.7	2.73	99	496	414	151	75
DL		31	1	86	140	.201	1.05	.60	79.9	393.3	1.32	48	237	201	73	36
DL	Totals	12	87	123		3.775	12.63	9.53	56.8	246.5	14.88	541	2,348	2,261	822	357
SS		20	1	83	76	.482	1.05	.48	56.8	180.0	.71	27	87	108	42	13
SS	Totals	1	83	76		.482	1.05	.48	56.8	180.0	0.71	27	87	108	42	13
RC		21	1	80	45	.438	1.05	.44	46.8	60.0	.48	20	26	73	31	4
RC	Totals	1	80	45		.438	1.05	.44	46.8	60.0	0.48	20	26	73	31	4
Totals		249	87	84		191.007	262.11	319.00	28.0	113.9	270.97	8924	36,326	41,188	13,564	5,522

Leave

Ave conifer leave trees - 14.7 tpa

49.2 ft² basal area



South Burma

Volume Summary

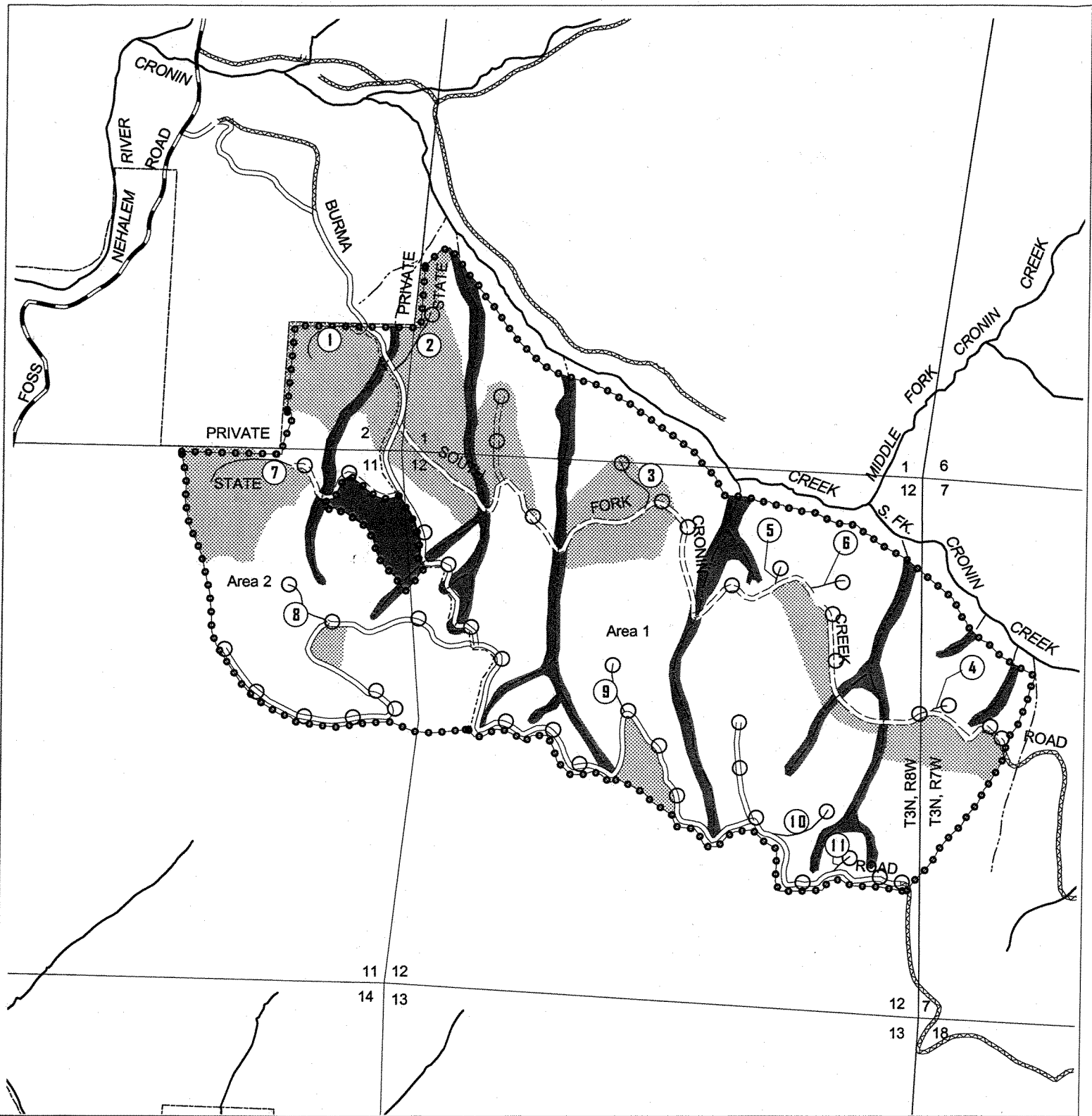
Area 1 - BOF						
167 acres						
SPECIES	Basal Area Per Acre	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	26	149	3.9	651	5%	618
Hemlock	61	152	9.3	1553	5%	1475
Alder	99	90	8.9	1486	10%	1337
TOTAL				3690		3430

Area 1 - CSL						
210 acres						
SPECIES	Basal Area Per Acre	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	26	149	3.9	819	5%	778
Hemlock	61	152	9.3	1953	5%	1855
Alder	99	90	8.9	1869	10%	1682
TOTAL				4641		4315

Area 2 - BOF						
127 acres						
SPECIES	Basal Area Per Acre	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	27	146	3.9	495	5%	470
Hemlock	107	147	15.7	1994	5%	1894
Alder	78	89	6.9	876	10%	788
TOTAL				3365		3152

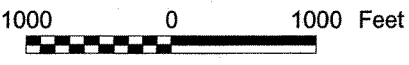
Area 2 - CSL						
19 acres						
SPECIES	Basal Area Per Acre	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	27	146	3.9	74	5%	70
Hemlock	107	147	15.7	298	5%	283
Alder	78	89	6.9	131	10%	118
TOTAL				503		471

TOTAL SALE VOLUME				
523 acres				
SPECIES	Gross Vol (MBF)	Net Vol (MBF)	BOF (MBF)	CSL (MBF)
Douglas-fir	2039	1936	1088	848
Hemlock	5798	5507	3369	2138
Alder	4362	3925	2125	1800
TOTAL	12199	11368	6582	4786



- Landing
- ▲ Domestic water supply
- ⊗ Blocked
- ▭ Cable yarding
- ▨ Ground yarding
- ▩ Helicopter yarding
- ▧ Downhill yarding
- ▤ Buffer
- ▦ Non-required thinning
- Area boundary
- Sale boundary
- Ownership boundary
- Perennial Type-F stream
- Perennial Type-N stream
- ==== Surfaced road
- ==== Unsurfaced road
- State highway
- County road
- (2) Non-project road
- Swing road
- Abandoned road
- OHV trail
- Non-motorized trail
- T T Transmission line

LOGGING PLAN
 Timber Sale Contract No. 341-06-15
 South Burma
 Portions of Section 7, T3N, R7W,
 and Sections 1, 2, 11, and 12,
 T3N, R8W, W. M.
 Tillamook County, Oregon



Tillamook District GIS
 3-28-2005

This product is for informational use and
 may not have been prepared for, or suitable
 for legal, engineering, or surveying purposes.

Area	Type of Operation	Acres	
		Sale	Net
1	BOF Partial Cut	197	167
1	CSL Partial Cut	251	210
2	BOF Retention Cut	140	127
2	CSL Retention Cut	23	19
Total		611	523

