



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Cost Summary Yellow Bus Sale 341-04-70

District: Tillamook

Date: 10/27/03

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$2,322,288.72	\$56,154.00	\$2,378,442.72
		Project Work	(\$68,213.80)
		Advertised Value	\$2,310,228.92



Timber Sale Appraisal Timber Description Yellow Bus Sale 341-04-70

"STEWARDSHIP IN FORESTRY"

District: Tillamook

Location: Portions of Sections 8, 9, 16, 17 and 18, T2S, R7W, W.M., Tillamook County, Oregon.

Date: 10/27/03

Stand Stocking: 20%

Species	Avg. DBH	Amortized%	Recovery%
Douglas - Fir	15	0	95
Alder (Red)	15	0	95

Volume by Grade	Douglas - Fir	Alder (Red)	Total
2S	1,396	0	1,396
3S	8,924	0	8,924
4S	1,368	0	1,368
Camprun	0	191	191
Total	11,688	191	11,879

Comments: Pond Values Used: 3rd Quarter 2003

Maintenance of Toll Road: \$1.26/mbf

Grading: $\$500/\text{mile} \times 4.25 \text{ miles} \times 3 \text{ times} / 11,879 \text{ mbf} = \$0.54/\text{mbf}$

Surfacing: $20 \text{ cy}/\text{mile} \times \$4.94 / \text{cy} \times 12 \text{ mmbf} \times 4.25 \text{ miles} / 11,879 \text{ mbf} = \$0.42 / \text{mbf}$

Compacting surface: $\$16/\text{sta} \times 224 \text{ stations} \times 1 \text{ time} / 11,879 \text{ mbf} = \$0.30 / \text{mbf}$

Other (Profit and Risk included): \$24,142.77

Pit run for non-project roads: $40\text{cy}/\text{sta} \times \$2.69/\text{cy} \times 60 \text{ stations} = \6456

Improvement of abandoned roads: $\$125/\text{sta} \times 71 \text{ stations} = \8875

Construction of non-project roads: $\$150/\text{sta} \times 10 \text{ stations} = \1500

Move-in costs: \$226.77

Clear debris from OHV trails: $10,250 \text{ feet} \text{ at } \$0.40/\text{ft} = \$4,100$

Restrict trails: $9 \text{ restrictions} \times \$75 \text{ each} = \$675$

Trail rolling dip installation: $\$110 / \text{hr} \text{ machine time} \times 8 \text{ hours} = \880

Slash piling and sorting: $\$110 / \text{hr}/50 \text{ acres} \times 650 \text{ acres of cable harvest} = \$1,430$

Other (add Profit and Risk): \$23,758 total cost

Brand and Paint: $\$2.00/\text{mbf} \times 11,879 \text{ mbf} = \$23,758$



Timber Sale Appraisal

Logging Conditions

Yellow Bus

Sale 341-04-70

"STEWARDSHIP IN FORESTRY"

Combination#: 1	Douglas - Fir	70.32%	
	Alder (Red)	78.98%	
Yarding Distance:	Short (400 ft)		Downhill Yarding: No
Logging System:	Cable: Small Tower <=40		Process: Stroke Delimber
Tree Size:	Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF		
Loads/Day:	5		Bd. Ft./Load: 3,500
Cost/MBF:	\$158.44		
Machines:	Log Loader (A)		
	Stroke Delimber (A)		
	Tower Yarder (Small)		
Combination#: 2	Douglas - Fir	20.72%	
	Alder (Red)	18.35%	
Yarding Distance:	Short (400 ft)		Downhill Yarding: Yes
Logging System:	Track Skidder		Process: Feller Buncher
Tree Size:	Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF		
Loads/Day:	10		Bd. Ft./Load: 3,500
Cost/MBF:	\$100.54		
Machines:	Feller Buncher w/ Delimber		
	Log Loader (B)		
	Stroke Delimber (B)		
	Track Skidder		
Combination#: 3	Douglas - Fir	8.96%	
	Alder (Red)	2.67%	
Yarding Distance:	Medium (800 ft)		Downhill Yarding: No
Logging System:	Cable: Medium Tower >40 - <70		Process: Stroke Delimber
Tree Size:	Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF		
Loads/Day:	4		Bd. Ft./Load: 3,500
Cost/MBF:	\$234.47		
Machines:	Log Loader (A)		
	Stroke Delimber (A)		
	Tower Yarder (Medium)		



Timber Sale Appraisal

Logging Costs

Yellow Bus

Sale 341-04-70

"STEWARDSHIP IN FORESTRY"

Date: 10/27/03

Operating Seasons: 3.0

Profit & Risk: 12%

Project Costs: \$68,214

Other Costs (P/R): \$23,758

Slash Disposal: \$0

Other Costs: \$24,143

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

Road Maintenance: \$1.26

Hauling Costs

Species	\$/MBF	Trips/Day	MBF/Load
Douglas - Fir	\$0.00	2.0	3.5
Alder (Red)	\$0.00	3.0	3.2



Timber Sale Appraisal Logging Costs Breakdown Yellow Bus Sale 341-04-70

"STEWARDSHIP IN FORESTRY"

Costs	Douglas - Fir	Alder (Red)
Logging	153.25	149.85
Road Maintenance	1.33	1.33
Fire Protection	0.68	0.68
Hauling	69.16	46.11
Other (P/R appl.)	2.00	2.00
Profit & Risk	27.17	24.00
Slash Disposal	0.00	0.00
Scaling	2.00	0.00
Other	2.03	2.03
Total	257.62	226.00

Amortization	0.00	0.00
Pond Value	456.31	520.00
Stumpage	198.69	294.00
Amortized	0.00	0.00



Timber Sale Appraisal Summary Yellow Bus Sale 341-04-70

"STEWARDSHIP IN FORESTRY"

Amortized

	Douglas - Fir	Alder (Red)
MBF	0.00	0.00
Value	0.00	0.00
Total	0.00	0.00

Unamortized

	Douglas - Fir	Alder (Red)
MBF	11,688.00	191.00
Value	198.69	294.00
Total	2,322,288.72	56,154.00

Gross Timber Sale Value

Recovery \$2,378,442.72

Prepared by: John Pine

Date: 10/27/03

District: Tillamook

Phone: (503) 842-2545

PROJECT SUMMARY SHEET

Sale: Yellow Bus

CONSTRUCTION

Point	C to D	9+00	stations =	\$5,293.43
Point	E to F	35+00	stations =	\$14,848.33
SUBTOTAL CONSTRUCTION				\$20,141.76

IMPROVEMENT

Point	A to B	24+60	stations =	\$14,162.05
Point	C to D	3+50	stations =	\$2,058.55
Point	E to F	72+00	stations =	\$30,545.13
SUBTOTAL IMPROVEMENT				\$46,765.73

SPECIAL PROJECTS

SUBTOTAL SPECIAL PROJECTS	\$0.00
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MOVE IN

\$1,306.31

GRAND TOTAL

\$68,213.80

SUMMARY OF IMPROVEMENT COST

Sale:	<u>Yellow Bus</u>		Road: <u>A to B</u>
Construction -	<u>0+00</u> stations <u>0.00</u> miles		Improvement - <u>24+60</u> stations <u>0.47</u> miles
 CLEARING AND GRUBBING - Scattering	1.130 acres @		\$815.00 per acre = <u>\$920.95</u> TOTAL CLEARING AND GRUBBING \$920.95
 EXCAVATION - Road Earthwork	24.60 sta. @		\$65.00 per sta. = <u>\$1,599.00</u> TOTAL EXCAVATION \$1,599.00
 ENDHAUL - Pullback	0+00 to 0+00	0 cy. @	\$0.00 per c.y. = <u>\$0.00</u> TOTAL ENDHAUL \$0.00
 CULVERTS - MATERIALS & INSTALLATION			
	<u>Culverts</u>		
	44 LF of 18"	\$649.00	0 LF of 24" \$0.00
	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
	0 LF of 66"	<u>\$0.00</u>	0 LF of 72" <u>\$0.00</u>
		<u>\$649.00</u>	<u>\$0.00</u>
	<u>Half Rounds</u>		
	0 LF of 21"	\$0.00	0 LF of 30" \$0.00
	0 LF of 36"	<u>\$0.00</u>	0 LF of 42" <u>\$0.00</u>
		<u>\$0.00</u>	<u>\$0.00</u>
	<u>Culvert Stakes & Markers</u>		
	1 stakes	\$8.00	
			TOTAL CULVERTS \$657.00
 SURFACING- 0+00 to	24+60	1,358 cy. of Pit-Run	@ \$7.16 per c.y. = <u>\$9,723.28</u> TOTAL SURFACING \$9,723.28
 SPECIAL PROJECTS			
Grade and shape road -	24.60 stations @	\$13.70 per station	\$337.02
Roll subgrade w/ vibratory roller prior to rocking -	24.60 stations @	\$11.00 per station	\$270.60
Remove log culvert @ stations 12+80 -	1.50 hours @	\$130.00 per hour	\$195.00
Grass seed and fertilize -	0.56 acres @	\$220.00 per acre	\$123.20
Mulching -	0.56 acres @	\$600.00 per acre	<u>\$336.00</u>
			TOTAL SPECIAL PROJECTS \$1,261.82

GRAND TOTAL **\$14,162.05**

SUMMARY OF IMPROVEMENT & CONSTRUCTION COST

Sale:	<u>Yellow Bus</u>		Road: <u>C to D</u>	
Construction -	<u>9+00</u> stations <u>0.17</u> miles		Improvement -	<u>3+50</u> stations <u>0.07</u> miles
CLEARING AND GRUBBING - Scattering	0.860 acres @		\$815.00 per acre =	<u>\$700.90</u>
			TOTAL CLEARING AND GRUBBING	\$700.90
EXCAVATION - Road Earthwork	12.50 sta. @		\$65.00 per sta. =	<u>\$812.50</u>
			TOTAL EXCAVATION	\$812.50
ENDHAUL - Pullback	0+00 to 0+00	0 cy. @	\$0.00 per c.y. =	<u>\$0.00</u>
			TOTAL ENDHAUL	\$0.00
CULVERTS - MATERIALS & INSTALLATION				
	<u>Culverts</u>			
	0 LF of 18"	\$0.00	0 LF of 24"	\$0.00
	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
	0 LF of 66"	<u>\$0.00</u>	0 LF of 72"	<u>\$0.00</u>
		\$0.00		\$0.00
	<u>Half Rounds</u>			
	0 LF of 21"	\$0.00	0 LF of 30"	\$0.00
	0 LF of 36"	<u>\$0.00</u>	0 LF of 42"	<u>\$0.00</u>
		\$0.00		\$0.00
	<u>Culvert Stakes & Markers</u>			
	0 stakes	\$0.00		
	0 markers	<u>\$0.00</u>		
		\$0.00		
			TOTAL CULVERTS	\$0.00
URFACING-	12+50	698 cy. of	Pit-Run	@
+00 to				
			\$7.06 per c.y. =	<u>\$4,927.88</u>
			TOTAL SURFACING	\$4,927.88
SPECIAL PROJECTS				
grade and shape road -	12.50 stations @		\$17.40 per station	\$217.50
roll subgrade w/ vibratory roller prior to rocking -	12.50 stations @		\$11.00 per station	\$137.50
remove large stumps -				\$212.50
sow grass seed and fertilize -	0.66 acres @		\$220.00 per acre	\$145.20
mulching -	0.330 acres @		\$600.00 per acre	\$198.00
			TOTAL SPECIAL PROJECTS	\$910.70
			GRAND TOTAL	\$7,351.98

SUMMARY OF IMPROVEMENT & CONSTRUCTION COST

Sale:	<u>Yellow Bus</u>					Road:	<u>E to F</u>
Construction -	<u>35+00</u> stations 0.66 miles					Improvement -	<u>72+00</u> stations 1.36 miles
CLEARING AND GRUBBING -							
Scattering			3.09 acres @	\$815.00 per acre =			\$2,518.35
Endhaul (85+00 to 86+40)			0.13 acres @	\$1,500.00 per acre =			\$195.00
						TOTAL CLEARING AND GRUBBING	\$2,713.35
EXCAVATION -							
Road Earthwork			35.00 sta. @	\$100.00 per sta. =			\$3,500.00
						TOTAL EXCAVATION	\$3,500.00
ENDHAUL -							
Spread & compact	85+00	to	86+40	465 cy. @	\$2.60 per c.y. =		\$1,209.00
				465 cy. @	\$0.35 per c.y. =		\$162.75
						TOTAL ENDHAUL	\$1,371.75
CULVERTS - MATERIALS & INSTALLATION							
			<u>Culverts</u>				
			28 LF of 18"	\$413.00		0 LF of 24"	\$0.00
			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
			0 LF of 66"	\$0.00		0 LF of 72"	\$0.00
				\$413.00			\$0.00
			<u>Half Rounds</u>				
			0 LF of 21"	\$0.00		0 LF of 30"	\$0.00
			0 LF of 36"	\$0.00		0 LF of 42"	\$0.00
				\$0.00			\$0.00
			<u>Culvert Stakes & Markers</u>				
			1 stake	\$8.00			
						TOTAL CULVERTS	\$421.00
SURFACING-							
0+00 to	72+00	2,177	cy. of	3"-0" Crushed	@	\$4.94 per c.y. =	\$10,754.38
72+00 to	107+00	400	cy. of	2"-0" Crushed(Traction)	@	\$5.84 per c.y. =	\$2,336.00
72+00 to	107+00	2,581	cy. of	Pit-Run	@	\$8.00 per c.y. =	\$20,648.00
						TOTAL SURFACING	\$33,738.38
SPECIAL PROJECTS							
Grade and shape road -			107.00 stations @	\$17.40 per station			\$1,861.80
Roll subgrade w/ vibratory -			35.00 stations @	\$11.00 per station			\$385.00
Remove large stumps -							\$318.00
Grass seed and fertilize -			2.00 acres @	\$220.00 per acre			\$358.18
Mulching -			1.210 acres @	\$600.00 per acre			\$726.00
						TOTAL SPECIAL PROJECTS	\$3,648.98
GRAND TOTAL							\$45,393.46

ROCK DEVELOPMENT COST SUMMARY

Pit:	Toll Pit	Location:	Sec. 15, T2N, R7W, W.M.
Sale:	Yellow Bus	Road:	4637 c.y.
Swell:	1.40	Stockpile:	c.y.
Shrinkage	1.16	Total Truck Loads:	4637 c.y.
Drill Pct.:	80%	In Place Total:	3312 c.y.

Pit Development & Cleanup including Clearing and grubbing of Waste Area @ adjacent to pit, place overburden in Waste Area, spread and compact. \$2,080.00

Drill & Shoot:	\$2.10	/cu.yd.	x	2650	cu.yds.	=	\$5,565.00
Rip Rock	\$1.75	/cu.yd.	x	662	cu.yds.	=	\$1,158.50
Load Dump Truck:	\$0.60	/cu.yd.	x	4637	cu.yds.	=	\$2,782.20
Subtotal							\$11,585.70

Move In and set up Drill and Compressor	1	@	\$337.39	=	\$337.39
Move in Roller and Compactor	1	@	\$337.39	=	\$337.39
Move in Grader	1	@	\$177.63	=	\$177.63
Move in D-7	1	@	\$509.29	=	\$509.29
Move in Excavator	1	@	\$558.28	=	\$558.28
Move in Trucks	4	@	\$114.39	=	\$457.56
Subtotal					\$2,377.54

TOTAL PRODUCTION COSTS \$13,963.24

Base Cost= \$3.01 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 to B	\$3.25	\$0.90	\$3.01	\$7.16	1358	\$9,723.28
C to D	\$3.15	\$0.90	\$3.01	\$7.06	698	\$4,927.88
E to F	\$4.09	\$0.90	\$3.01	\$8.00	2581	\$20,648.00
Total C.Y.					4637	Sub Total \$35,299.16

TOTAL ROCKING COSTS \$35,299.16

CRUSHED ROCK COST SUMMARY

Stockpile Sites: Bark Shanty:
 Toll Pit:
 Sale: **Yellow Bus**

Legal: SE NW Sec. ~~16~~¹⁵ T2~~N~~^S, R7W, W.M.
 NE ~~NW~~^{SW} Sec. 16 T2~~N~~^S, R7W, W.M.
 Road: 2577 c.y.
 Total Truck Loads: 2577 c.y.

Load Dump Truck: \$0.60 /cu.yd. x 2577 cu.yds. = \$1,546.20

Subtotal \$1,546.20

Move in Loader & within area move	1	@	\$335.65	=	\$335.65
Move in Trucks	4	@	\$114.39	=	\$457.56
Move in Water Truck	1	@	\$134.45	=	\$134.45
				Subtotal	<u>\$793.21</u>

Base Cost= \$0.91 Per Cu.Yd.

TOTAL PRODUCTION COSTS \$2,339.41

Road Segment	Haul Cost /cu.yd.	Proc Cost /cu.yd.	Base Cst. /cu.yd.	Cost /cu.yd.	Number Cu. Yds	ROCK COST
E to F - 0+00 -72+00(Toll Stockpile)	2.73	1.30	0.91	4.94	2177	10,754.38
E to F - 72+00 -107+00(Bark Shanty)	3.63	1.30	0.91	5.84	400	2,336.00
				Total C. Y.	2577	Sub Total 13,090.38

TOTAL ROCKING COSTS 13,090.38



**OREGON DEPARTMENT OF FORESTRY
CRUISE REPORT**

Yellow Bus

"STEWARDSHIP IN FORESTRY"

1. **Type of Sale:** Regeneration harvest – Recovery
2. **Legal Description:** Portions of Sections 8, 9, 16, 17 and 18, T2S, R7W, W.M., Tillamook County, Oregon.
3. **Sale Acreage:** The sale boundary was plotted on a digital orthophotograph and the acreage was calculated with GIS.

ACRES			
Area	Sale	Total	Net
1	110	130	109
2	337	342	327
3	111	110	109
4	112	121	112
5	29	29	28
6	121	120	112
Total	820	852	797

Sale Acres

Area within the Timber Sale Boundary signs

Total acres for accomplishment reporting

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

Net acres for calculating the advertised volume

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

4. **Cruising Procedures:**

- A. **Cruise Method:** Cruise lines were established in the sale areas running across terrain features the longest way across the sale areas from boundary to boundary, with variable radius full point plots taken every 250 feet, with the target of one plot per seven acres across the sale area. Each plot consisted of count tree, with every odd number plot also measured and graded to determine a VBAR for the stand. The number of count tree only plots in Area 1 was 8, Area 2 had 19, Area 3 had 8, Area 4 had 8, Area 5 had 2, and Area 6 had 4. The number of measure plots in Area 1 was 9, Area 2 had 28, Area 3 had 8, Area 4 had 9, Area 5 had 2, and Area 6 had 9. Diameters were recorded to the nearest 1", heights to the nearest foot. Diameters were taken at 4.5' above the ground on the uphill side. Conifers with diameters of 8" or larger and hardwoods with diameters of 10" or larger were recorded. The cruise had a coefficient of variation of 32.4 and a SE% of 3.0 for the net board feet/acre.

- B. **Plot size:** A BAF of 27.78 was used for Douglas-fir in Areas 1,2,3,4 and 5. A BAF of 20 was used in Area 6 for Douglas-fir. A BAF of 10 was used for other conifers, snags and hardwoods in all areas. The point of tree observation was 4.5 feet.
- C. **Grading System:** Trees heights were measured to a 6" merchantable top for conifers and 8" for hardwoods. Douglas-fir was graded using Columbia River rules favoring a 40' log. All other species were graded camprun.
- D. **Defect and Breakage:** A 5% defect and breakage reduction was applied to both conifer and hardwood volume.
- E. **Cruiser Names / Dates:** John Pine. August and September, 2003.
5. **Computation Procedures:** V-BAR (Volume-Basal Area Ratio) for all areas and Basal Area for the take trees in Area 2 was computed using SuperACE. The data from SuperACE was entered into a Volume Summary spreadsheet (see attached) to obtain volumes for use in the appraisal. Area 2 is a Type 1 harvest with a residual Basal Area of 33 to 40.
6. **Timber Description:** The sale contains Douglas-fir with symptoms of Swiss Needle Cast stands 40 years of age with scattered Hemlock, Spruce, and Noble Fir. Hardwoods are present in draws and near abandoned roads.
7. **Revenue Distribution:**
100% FDF
Tax Code: 9-1
Deed No. 169, 209
98% Rehabilitation Obligated
8. **Appendices:**
- Volume Summary
- Logging Plan
- Written Plan



"STEWARDSHIP IN FORESTRY"

Yellow Bus

Volume Summary

Area I						
109 acres						
SPECIES	Basal Area Per Acre	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	141	112	15.8	1722	5%	1636
Alder	0	0	0.0	0	5%	0
TOTAL				1722		1636

Area II						
327 acres						
SPECIES	Basal Area Per Acre	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	109	125	13.6	4447	5%	4225
Alder	3	100	0.3	100	5%	95
TOTAL				4547		4320

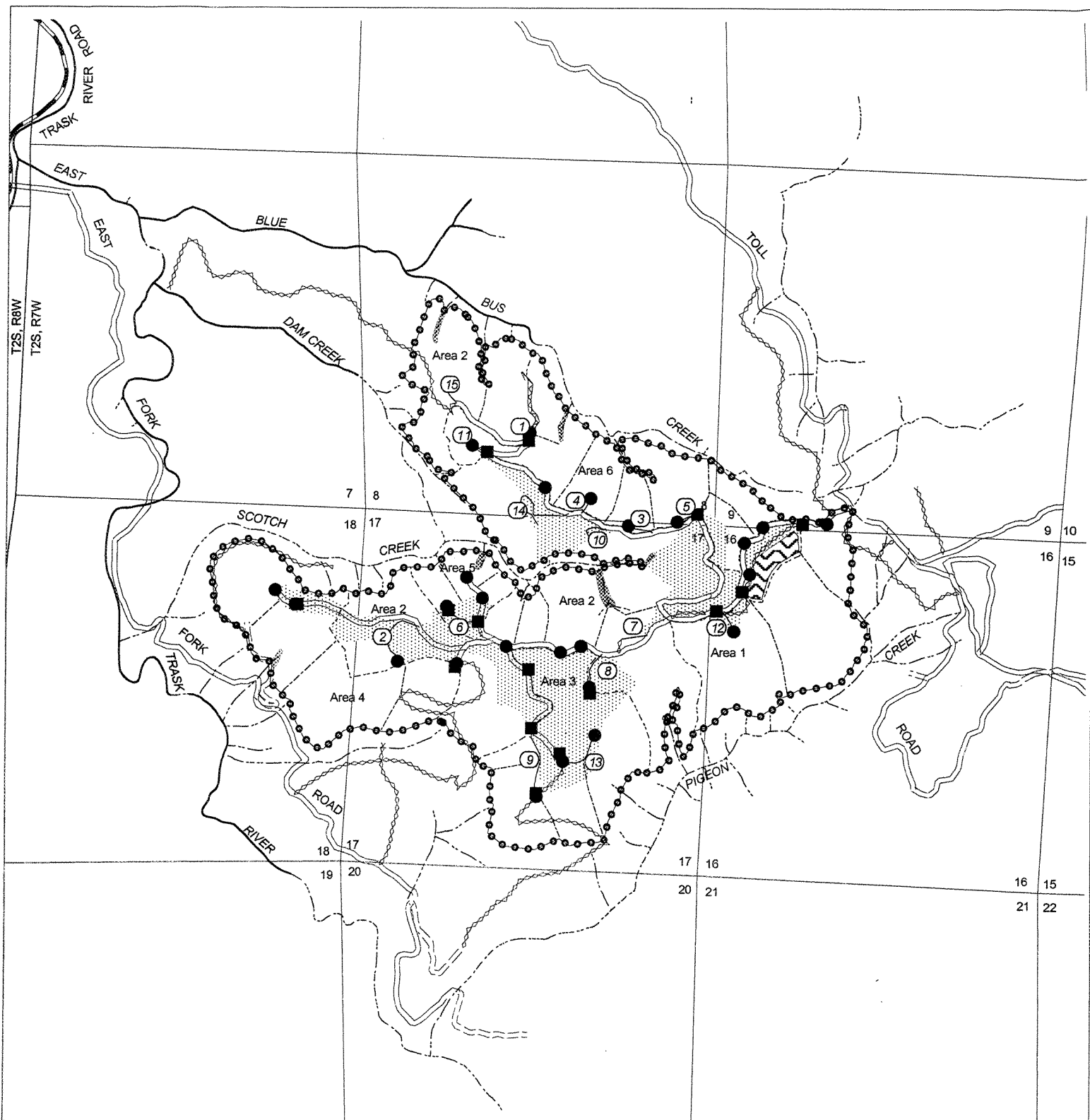
Area III						
109 acres						
SPECIES	Basal Area Per Acre	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	169	108	18.3	1995	5%	1895
Alder	0	0	0.0	0	5%	0
TOTAL				1995		1895

Area IV						
112 acres						
SPECIES	Basal Area Per Acre	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	180	108	19.4	2173	5%	2064
Alder	0	0	0.0	0	5%	0
TOTAL				2173		2064

Area V						
28 acres						
SPECIES	Basal Area Per Acre	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	175	127	22.2	622	5%	591
Alder	0	0	0.0	0	5%	0
TOTAL				622		591

Area VI						
112 acres						
SPECIES	Basal Area Per Acre	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	97	124	12.0	1344	5%	1277
Alder	9	99	0.9	101	5%	96
TOTAL				1445		1373

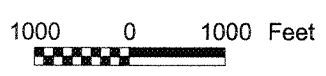
TOTAL SALE VOLUME			
SPECIES	MBF	D&B	Net Vol. (MBF)
Douglas-fir	12303	5%	11688
Alder	201	5%	191
TOTAL	12504		11879



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

LOGGING PLAN
 Timber Sale Contract No. 341-04-70
 Yellow Bus
 Portions of Sections 8, 9, 16, 17, and 18,
 T2S, R7W, W. M.
 Tillamook County, Oregon

Area	Type of Operation	Acres Sale	Acres Net
1	Clearcut	110	109
2	Regeneration	337	327
3	Clearcut	111	109
4	Clearcut	112	112
5	Clearcut	29	28
6	Clearcut	121	112
Total		820	797





Oregon Department of Forestry

WRITTEN PLAN

SALE NAME: Yellow Bus

PROTECTED WATERS: Blue Bus Creek

LOCATION: Portions of Section 8, T2S, R7W, W.M., Tillamook County, Oregon.

Riparian Management Area:

The area measured 100 feet slope distance from the high water mark on the Blue Bus Creek, a Type F stream.

Protection Measures:

Yarding Systems, Layout, and Stream Protection

When yarding with cables hanging within or across the streams, cables will be pulled out of the Riparian Management Area prior to rigging the next yarding road. Yarding roads will be spaced an average of 150 feet apart where they extend over or through the riparian management area.

Date: September 23, 2003
By: John Pine