



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Brix Deuce
Sale 341-08-02

District: Tillamook

Date: October 04, 2007

cost summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$40,244.20	\$209,438.58	\$249,682.78
		Project Work:	\$(40,640.00)
		Advertised Value:	\$209,042.78



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timber description

Location: Portions of Section 20, T3N, R7W, W.M., Tillamook County, Oregon.

Stand Stocking: 60%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	18	0	95
Alder (Red)	14	0	90

Volume by Grade	2S	3S	4S	Total
Douglas - Fir	124	133	53	310
Alder (Red)	12	336	263	611
Total	136	469	316	921



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comments: Pond Values Used: 3rd Quarter Calendar Year 2007.

Western Red Cedar Stumpage Price = Pond Value minus Logging Cost
\$670/MBF = \$1,000/MBF - \$330/MBF
Pulp Stumpage: \$25/MBF

HAULING

Hauling costs equivalent to \$700 daily truck cost.

Other Costs (Profit and Risk to be added):

Branding and Painting: \$2/MBF x 921 MBF = \$1,842
Snag Creation (top at 60'): \$75/tree x 70 trees = \$5,250
TOTAL Other Costs (Profit and Risk to be added) = \$7,092

Other Costs (No Profit and Risk added):

- Approach Rock Pit Run (C to D)
1sta. x 50yrds³/sta. x \$10.50/yrds³ = \$525
- Slash sorting at cable landings
57 acres / 50 acres/hr x \$125/hr = \$142
- Non-project Road - 4 stations @ \$150/sta = \$600
- Landing Rock Pit Run (A to B)
2 Landings x 20yrds³/landing x \$10.50/yrds³ = \$420
- Water Bars \$25/bar x 10 = \$250
- Tank Trap (@ Point C) = \$75
- Temporary Culvert Removal (Project C to D)
4hrs@\$140/hr + \$76(\$1 per foot) = \$636
- Move in excavator (for culvert removal) = \$500
- Culvert transport back to district office: 4 hrs @ \$60/hr = \$240
- Stimson Road Use Fees:
Access = \$3,904
Project work recovery = \$26,463
Rock wear fee = \$5,647.68
Total fees: \$36,014.68

TOTAL Other Costs (No Profit and Risk added) = \$39,402.68

Road Maintenance:

- Move-In Costs for equipment (\$1,500)
\$1,500 / 910 mbf = \$1.63/MBF
- Spot Rocking (Buck Mountain and Brix Incline Roads)
20cy/mile x \$ 6.00/cy x .910 mmbf x 8 miles / 910 mbf = \$ 0.96/MBF
- Final Grading (Buck Mountain and Brix Incline Roads)
\$500/mile x 8 miles / 910 mbf = \$ 4.34/MBF

TOTAL Road Maintenance = \$6.93/MBF



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logging conditions

combination#: 1 Douglas - Fir 75.00%

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: 6.0 bd. ft / load: 3,500
cost / mbf: \$164.76

machines: Log Loader (A)
Tower Yarder (Medium)

combination#: 2 Alder (Red) 70.00%

yarding distance: Medium (800 ft) downhill yarding: No
logging system: Cable: Small Tower <=40 Process: Stroke Delimber
tree size: Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF
loads / day: 4.0 bd. ft / load: 3,000
cost / mbf: \$236.19

machines: Log Loader (A)
Stroke Delimber (A)
Tower Yarder (Small)

combination#: 3 Douglas - Fir 25.00%
 Alder (Red) 30.00%

yarding distance: Short (400 ft) downhill yarding: No
logging system: Track Skidder Process: Feller Buncher
tree size: Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF
loads / day: 8.0 bd. ft / load: 3,500
cost / mbf: \$125.67

machines: Log Loader (B)
Stroke Delimber (B)
Feller Buncher w/ Delimber
Track Skidder



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logging costs

Operating Seasons:	2.00	Profit Risk:	15.00%
Project Costs:	\$40,640.00	Other Costs (P/R):	\$7,092.00
Slash Disposal:	\$0.00	Other Costs:	\$39,402.68

Miles of Road

Road Maintenance: \$6.93

Dirt	Rock (Contractor)	Rock (State)	Paved
0.0	0.0	0.0	0.0

Hauling Costs

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



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logging costs breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
Douglas - Fir									
\$154.99	\$7.28	\$9.52	\$91.31	\$7.70	\$40.62	\$0.00	\$2.00	\$42.78	\$356.20
Alder (Red)									
\$203.03	\$7.62	\$9.52	\$74.39	\$7.70	\$45.34	\$0.00	\$2.00	\$42.78	\$392.38

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$486.02	\$129.82	\$0.00
Alder (Red)	\$0.00	\$735.16	\$342.78	\$0.00



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summary

Amortized

Specie	MBF	Value	Total
Douglas - Fir	0	\$0.00	\$0.00
Alder (Red)	0	\$0.00	\$0.00

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	310	\$129.82	\$40,244.20
Alder (Red)	611	\$342.78	\$209,438.58

Gross Timber Sale Value

Recovery: \$249,682.78

Prepared by: Robert Thurman

Phone: 503-815-7045



PROJECT SUMMARY SHEET

Sale: Brix Deuce

CONSTRUCTION

Point	A to B	15+90	stations =	\$21,681.37
Point	C to D	24+90	stations =	\$14,085.13
SUBTOTAL CONSTRUCTION				\$35,766.50

IMPROVEMENT

SUBTOTAL IMPROVEMENT \$0.00

RECONSTRUCTION

SUBTOTAL IMPROVEMENT \$0.00

SPECIAL PROJECTS

SUBTOTAL SPECIAL PROJECTS \$0.00

MOVE IN

\$4,873.50

GRAND TOTAL **\$40,640.00**

SUMMARY OF CONSTRUCTION COST

Sale:	<u>Brix Deuce</u>	_____	Road:	<u>A to B</u>	_____
Construction -	<u>15+90</u>	stations	Improvement -	<u>0+00</u>	stations
	<u>0.30</u>	miles		<u>0.00</u>	miles
CLEARING AND GRUBBING -					
Scattering		1.460 acres @	\$980.00 per acre =	<u>\$1,430.80</u>	
				TOTAL CLEARING AND GRUBBING	\$1,430.80
EXCAVATION -					
Road Earthwork		15.90 sta. @	\$150.00 per sta. =	<u>\$2,385.00</u>	
Construct approach @ point A and landing const.				<u>\$855.00</u>	
				TOTAL EXCAVATION	\$3,240.00
ENDHAUL -				<u>TOTAL ENDHAUL</u>	\$0.00
CULVERTS - MATERIALS & INSTALLATION					
Culverts	0	LF of 18"	_____	\$0.00	
				\$0.00	
Half Rounds				\$0.00	
Culvert Stakes & Markers				\$0.00	
0 markers				<u>\$0.00</u>	
				TOTAL CULVERTS	\$0.00
ROCK	974	cy. of	Pit-Run	@	\$14.76 per c.y. =
					<u>\$14,376.24</u>
					TOTAL ROCK
					\$14,376.24
SPECIAL PROJECTS					
Grade and shape road -		15.90 stations @	\$15.50 per station	\$246.45	
Construct/install rubber water diverter -		4.00 @	\$360.00 each	\$1,440.00	
Roll subgrade w/ vibratory roller prior to rocking -		15.90 stations @	\$13.20 per station	\$209.88	
Remove large stumps -		5 lump sum @	\$130.00	\$650.00	
Grass seed and fertilize -		0.4 acres @	\$220.00 per acre	<u>\$88.00</u>	
				TOTAL SPECIAL PROJECTS	\$2,634.33
			GRAND TOTAL	\$21,681.37	

SUMMARY OF CONSTRUCTION COST

Sale:	<u>Brix Deuce</u>	_____	Road:	<u>C to D</u>	_____
Construction -	<u>24+90</u>	stations	Improvement -	<u>0.00</u>	stations
	<u>0.47</u>	miles			miles
CLEARING AND GRUBBING -					
Scattering		2.40 acres @	\$980.00 per acre =	<u>\$2,352.00</u>	
			TOTAL CLEARING AND GRUBBING		\$2,352.00
EXCAVATION -					
Road Earthwork		23.00 sta. @	\$150.00 per sta. =	\$3,450.00	
Full Bench - 12+90 to 14+80 Drift to Sta.15+70>		1.90 sta. @	\$285.00 per sta. =	\$541.50	
Landing const.		1 @	\$285.00 per ea. =	<u>\$285.00</u>	
			TOTAL EXCAVATION		\$4,276.50
ENDHAUL -					
				<u>TOTAL ENDHAUL</u>	\$0.00
CULVERTS - MATERIALS & INSTALLATION					
	<u>Culverts</u>				
	0 LF of 18"	\$0.00	76 LF of 24"	\$1,824.00	
	<u>Culvert Stakes & Markers</u>				
	2 markers	<u>\$16.00</u>			
		\$16.00			
			TOTAL CULVERTS		\$1,840.00
ROCK					
4+40 to 10+10	6+40 to 12+10	200 cy. of Pit-Run	@ \$15.85 per c.y. =	<u>\$3,170.00</u>	
				TOTAL ROCK	
					\$3,170.00
SPECIAL PROJECTS					
Grade and shape road -		24.9 stations @	\$15.50 per station	\$385.95	
Roll subgrade w/ vibratory roller prior to rocking -		24.9 stations @	\$13.20 per station	\$328.68	
Remove log from fills @ stations: 5+85 & 12+00 -		4 hours @	\$145.00 per hour	\$580.00	
Remove large stumps -		7 lump sum @	\$130.00	\$910.00	
Grass seed and fertilize -		1.1 acres @	\$220.00 per acre	<u>\$242.00</u>	
				TOTAL SPECIAL PROJECTS	
					\$2,446.63
GRAND TOTAL					\$14,085.13

ROCK DEVELOPMENT COST SUMMARY

Pit:	Northside Road	Location:	SE 1/4 Section 25, T3N R8W W.M.
Sale:	Brix Deuce	Road:	1174 c.y.
Swell:	1.40	Stockpile:	c.y.
Shrinkage	1.16	Total Truck Loads:	1174 c.y.
Drill Pct.:	30%	In Place Total:	839 c.y.

Pit Development & Endhaul to Overburden to Waste Area & Spread and Compact \$1,336.07

Drill & Shoot:	\$2.50	/cu.yd.	x	252	cu.yds.	=	\$630.00
Rip Rock	\$1.90	/cu.yd.	x	587	cu.yds.	=	\$1,115.30
Load Dump Truck:	\$0.70	/cu.yd.	x	1174	cu.yds.	=	\$821.80
						Subtotal	\$3,903.17

Move In and set up Drill and Compressor	1	@	\$822.25	=	\$822.25
Move in Roller	1	@	\$855.00	=	\$855.00
Move in Grader	1	@	\$1,131.43	=	\$1,131.43
Move in D-8	1	@	\$1,301.14	=	\$1,301.14
Move in Excavator (Within Area)	1	@	\$358.40	=	\$358.40
Move in Trucks	4	@	\$276.86	=	\$1,107.44
				Subtotal	\$5,575.66

Base Cost= \$8.07 Per Cu.Yd. TOTAL PRODUCTION COSTS \$9,478.83

	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		\$4.99	\$1.70	\$8.07	\$14.76	974	\$14,376.24
C to D		\$6.08	\$1.70	\$8.07	\$15.85	200	\$3,170.00
					Total C.Y.	1174	Sub Total <u> \$17,546.24 </u>

TOTAL ROCKING COSTS \$17,546.24

Move-In Calculations

Sale: Brix Deuce

LOWBOY HAUL (Round Trip)		
DIST. (mi)	ROADWAY	AVE SPEED (mph)
60.0	Pavement	30
12.0	Main Lines	7
8.0	Steep Grades	2

No.	EQUIPMENT DESCRIPTION	Move in Cost	Pilot Cars	Within Area Move (\$/mile)	Begin Mileage	End Mileage	Total Miles	Within Area Cost	Total Cost
0	Drill & Compressor	\$0.00		\$46.00	0.00	0.00	0	\$0.00	\$0.00
0	Brush Cutter	\$0.00		\$4.00	0.00	0.00	0	\$0.00	\$0.00
0	Graders	\$0.00		\$3.65	0.00	0.00	0	\$0.00	\$0.00
0	Loader (Small)	\$0.00	1	\$3.55	0.00	0.00	0	\$0.00	\$0.00
0	Loader (Med. & Large)	\$0.00	1	\$9.00	0.00	0.00	0	\$0.00	\$0.00
1	Rollers (smooth/grid) & Compactors	\$822.25		\$5.00	0.00	0.00	0	\$0.00	\$822.25
0	Excavators (Small)	\$0.00		\$22.00	0.00	0.00	0	\$0.00	\$0.00
0	Excavators (Med.)	\$0.00		\$35.50	0.00	0.00	0	\$0.00	\$0.00
1	Excavators (Large)	\$1,489.09	1	\$44.80	0.00	4.00	8	\$358.40	\$1,847.49
0	Tired Backhoes/Skidders	\$0.00		\$3.00	0.00	0.00	0	\$0.00	\$0.00
0	Tractors (D6)	\$0.00	2	\$7.10	0.00	0.00	0	\$0.00	\$0.00
0	Tractors (D7)	\$0.00	2	\$11.30	0.00	0.00	0	\$0.00	\$0.00
1	Tractor (D8)	\$1,393.14	2	\$15.10	0.00	4.00	8	\$120.80	\$1,513.94
1	Dump Truck (10 cy +)	\$340.00		\$2.85	0.00	4.00	8	\$22.80	\$362.80
0	Dump Truck (Off Hiway)	\$0.00	1	\$4.75	0.00	0.00	0	\$0.00	\$0.00
0	Water Truck (1500 Gal)	\$0.00		\$2.85	0.00	0.00	0	\$0.00	\$0.00
1	Water Truck (2500 Gal)	\$325.43		\$2.85	0.00	0.00	0	\$0.00	\$325.43
TOTAL MOVE-IN COSTS:								\$4,873.50	



OREGON DEPARTMENT OF FORESTRY
CRUISE REPORT
Brix Deuce

1. Type of Sale

Retention cut – Recovery (hardwood/conifer)

2. Legal Description

Section 20, T3N, R7W, W.M. Tillamook County, Oregon

3. Sale Acreage

	ACRES	
	<u>Sale</u>	<u>Net</u>
Retention Cut	98	93
Total Acres	98	93

Sale Acres

Area within the Timber Sale Boundary signs.

Net acres

Used for calculating the advertised volume.

Sale acres, less green tree retention, roads, utility, right-of-way, and less riparian areas inside the sale boundary.

4. Cruising Procedures

A. Cruise Method

A total of 39 variable radius plots were taken across the sale area. Plots were spaced on a 250' x 400' grid. All conifers 8 inches DBH and greater and all hardwoods 9.5 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 for conifer and a basal area factor of 20 was used for alder. The point of observation is 4.5 feet.

C. Grading System

All trees were graded according to Columbia River Log Scaling and Grading Rules. Tree heights were recorded to a 6 inch top outside bark for conifer; 7 inch top outside bark for hardwoods; or three tenths (0.3) of DBH for all species, whichever was greater. Log lengths all favored 40 feet. Height and diameter measurement standards were to the nearest foot or inch respectively. All diameters were taken at a height of 4.5 feet. 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 table to compute sale volumes. The standard error for the cruise was 11.6% and the coefficient variation was 72.4% based on MBF per acre.

6. **Hidden Defect and Breakage**

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

7. **Timber Description**

The sale area burned in the 1945 Salmonberry fire and naturally regenerated. The timber is approximately 55-60 years old. The stand is predominately an alder stand with pockets of Douglas-fir and few scattered hemlock and spruce. The Douglas-fir has low symptoms of Swiss needle cast and there is minimal bear damage.

8. **Cruiser Names/Dates**

Lee/Wells/Stumpf/Allen/Yau/Ferguson, April-May 2007

9. **Revenue Distribution**

FDF: 100%

Tax Code: 56-1

Deed Numbers: 35, 70, 96

10. **Attachments**

Volume Summary Table

Super Ace Stand Tables

Logging Plan Exhibit

11. **Stand and Log Stock Tables Species Key**

DL – Douglas-fir leave

DF – Douglas-fir take

RA – Red alder take



"STEWARDSHIP IN FORESTRY"

Brix Deuce

Volume Summary

Area 1 - Harvest Type							
93 acres							
SPECIES	QMD	Basal Area Per Acre	V-BAR	Vol/Acre MBF	Volume MBF	D & B	Net Vol MBF
Douglas-fir	17.7	31	114	3.5	326	5%	310
Hemlock				0.0	0	5%	0
Spruce				0.0	0	5%	0
Noble Fir				0.0	0	5%	0
Red Alder	14.0	89	82	7.3	679	10%	611
TOTAL					1005		921

TOTAL SALE VOLUME			93 acres
SPECIES	Gross Vol. (MBF)	Net Vol. (MBF)	
Douglas-fir	326	310	
Hemlock	0	0	
Spruce	0	0	
Noble Fir	0	0	
Red Alder	679	611	
TOTAL	1005	921	

% by grade (SLI breakdown)					
	DF	WH	SS	NF	RA
SM					
2 Saw	40%				2%
3 Saw	43%				55%
4 Saw	17%				43%
CR					
	100%	0%	0%	0%	100%

Area 1						
Volume breakdown by grade						
	DF	WH	SS	NF	RA	
SM	0	0	0	0	0	
2 Saw	124	0	0	0	12	
3 Saw	133	0	0	0	336	
4 Saw	53	0	0	0	263	
CR	0	0	0	0	0	
TOTAL	310	0.00	0.00	0.00	611	921

Volume Relationships by Species

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State	County	Project	Twn	Rng	Sec	Tract	Type No.	Acres
		BRIXD_DW						93.00

Species								
Item	Total	RA	DL	DF				
Total Gross Cunits	4,829	2,139	1,878	812				
Total Net Cunits	4,786	2,119	1,872	795				
Total Gross MBF	1,906	686	885	334				
Total Net MBF	1,883	673	882	327				
Total Tons	13,362	5,882	5,164	2,315				
BA / Acre	166.67	88.72	47.18	30.77				
Trees / Acre	108.776	82.480	8.299	17.996				
OM DBH	16.8	14.0	32.3	17.7				
Gross CuFt / Acre	5,193	2,300	2,019	874				
Net CuFt / Acre	5,146	2,278	2,013	855				
Net / Gross Ratio	0.991	0.991	0.997	0.979				
Gross BdFt / Acre	20,493	7,381	9,516	3,596				
Net BdFt / Acre	20,247	7,237	9,489	3,521				
Net / Gross Ratio	0.988	0.980	0.997	0.979				
Tons / Acre	144	63	56	25				
Logs Per Acre	165	111	22	31				
Avg Log Length	33.3	30.0	35.0	35.0				
Lineal Ft Per Acre	5,484	3,345	765	1,091				
G CuFt / SqFt BA	31.2	25.9	42.8	28.4				
N CuFt / SqFt BA	30.9	25.7	42.7	27.8				
G BdFt / SqFt BA	123.0	83.2	201.7	116.9				
N BdFt / SqFt BA	121.5	81.6	201.1	114.4				
Tons / SqFt BA	0.86	0.71	1.18	0.81				
G CuFt / G MBF	253	312	212	243				
N CuFt / N MBF	254	315	212	243				
G BdFt / G CuFt	3.95	3.21	4.71	4.12				
N Bdft / N CuFt	3.93	3.18	4.71	4.12				
Tons / G CCF	2.77	2.75	2.75	2.85				
Tons / G MBF	7.01	8.57	5.83	6.92				
Lbs / G CuFt	55.34	55.00	55.00	57.00				
Lbs / N BdFt	14.19	17.48	11.70	14.14				
N CuFt / Lineal Ft	0.94	0.68	2.63	0.78				
N BdFt / Lineal Ft	3.69	2.16	12.40	3.23				
Lbs / Lineal Ft	52.40	37.82	145.15	45.66				

Log Stock Table - MBF
Project: **BRIXD_DW**

T03N R08W S20 T0001

T03N R08W S20 T0001

Twp Rge Sec Tract Type Acres Plots Sample Trees Page
 03N 08W 20 AREA 1 0001 93.00 39 249 2
 Date 9/14/2007
 Time 2:47:23PM

S Spp	So rt	Gr de	Log Len	Gross MBF	% Def	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches										
								2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39
DL	DO	3M	32	47		47	5.3					11	17	19				
DL	DO	3M	40	92		92	10.4		3	8	18	14	10	39				
DL	DO	4M	15	1		1	.1				1							
DL	DO	4M	16	4		4	.4		1	1	2							
DL	DO	4M	17	3		3	.4			1	2							
DL	DO	4M	18	1		1	.1			1								
DL	DO	4M	21	1		1	.1				1							
DL	DO	4M	22	1		1	.1		1									
DL	DO	4M	23	1		1	.1			1								
DL	DO	4M	25	4		4	.4		1	1	1							
DL	DO	4M	26	2		2	.2				2							
DL	DO	4M	27	1		1	.1				1							
DL	Totals			885		882	46.9		6	18	36	31	40	241	251	243	18	
DF	CU	CL																
DF	CU	CL	6															
DF	CU	CL	11															
DF	CU	CL	21	3	100.0													
DF	CU	CL	22	1	100.0													
DF	CU	CL	35	4	100.0													
DF	DO	2M	40	132		132	40.2				17	78	36					
DF	DO	3M	35	3		3	1.0		3									
DF	DO	3M	38	2		2	.6		2									
DF	DO	3M	40	137		137	42.0		13	44	80							
DF	DO	4M	11															
DF	DO	4M	14	2		2	.5		2									
DF	DO	4M	22	2		2	.6		2									
DF	DO	4M	24	2		2	.6		2									
DF	DO	4M	25	3		3	1.0			3								
DF	DO	4M	26	2		2	.5		2									
DF	DO	4M	30	11		11	3.3		4		7							
DF	DO	4M	34	2		2	.7		2									
DF	DO	4M	35	3		3	.8		3									
DF	DO	4M	36	4		4	1.2		4									
DF	DO	4M	38	8		8	2.4		6	2								
DF	DO	4M	39	4		4	1.3		4									
DF	DO	4M	40	11		11	3.3			11								
DF	Totals			334	2.1	327	17.4		30	21	58	80	25	78	36			
Total All Species				1,906	1.2	1,883	100.0		30	324	234	241	94	146	298	255	243	18

TC TSTNDSUM		Stand Table Summary															
Project BRIXD DW											T03N R08W S20 T0001						
T03N R08W S20 T0001											T03N R08W S20 T0001						
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees		Page:	1							
03N	08W	20	AREA 1	0001	93.00	39	249		Date:	09/14/200							
									Time:	2:48:09PM							
Spc	S T	Sample			Av			Average Log		Net			Totals				
		DBH	Trees	16'	FF	Ht	Trees/	BA/	Logs	Net	Net	Tons/	Cu.Ft.	Net	Tons	Cunits	MBF
							Acres	Acres	Acres	Cu.Ft.	Bd.Ft.	Acres	Acres	Acres			
DL		26	4	85	115	1.113	4.10	2.78	60.7	246.0	4.65	169	684	432	157	64	
DL		27	2	84	114	.516	2.05	1.29	64.4	264.0	2.29	83	340	213	77	32	
DL		28	1	84	109	.240	1.03	.48	83.6	340.0	1.10	40	163	103	37	15	
DL		29	5	86	116	1.118	5.13	3.13	67.8	304.3	5.84	212	953	543	197	89	
DL		30	2	86	108	.418	2.05	1.04	78.7	350.0	2.26	82	366	210	76	34	
DL		31	3	87	128	.587	3.08	1.76	79.6	396.7	3.86	140	699	359	130	65	
DL		32	3	85	109	.551	3.08	1.29	94.8	410.0	3.35	122	527	312	113	49	
DL		33	4	88	131	.691	4.10	1.90	99.0	514.5	5.17	188	977	481	175	91	
DL		34	2	85	114	.325	2.05	.81	104.0	474.0	2.33	85	386	216	79	36	
DL		35	5	87	119	.768	5.13	2.00	111.9	553.8	6.14	223	1,105	571	208	103	
DL		36	6	86	121	.871	6.15	2.18	120.1	580.7	7.32	261	1,264	680	243	118	
DL		37	4	84	124	.549	4.10	1.65	107.3	531.7	4.90	177	876	456	165	82	
DL		38	1	87	111	.130	1.03	.39	108.4	563.3	1.16	42	220	108	39	20	
DL		40	1	80	149	.118	1.03	.35	143.0	680.0	1.39	50	240	129	47	22	
DL		42	1	83	111	.107	1.03	.21	188.0	865.0	1.10	40	184	103	37	17	
DL		43	1	78	141	.102	1.03	.31	154.9	730.0	1.30	47	223	121	44	21	
DL		44	1	93	128	.097	1.03	.29	171.7	966.7	1.38	50	282	128	47	26	
DL	Totals	46	86	119		8.299	47.18	21.86	92.1	434.1	55.52	2,013	9,489	5,164	1,872	882	
RA		10	12	80	52	11.283	6.15	12.22	9.2	34.6	3.08	112	423	286	104	39	
RA		11	12	82	86	9.325	6.15	10.10	14.8	53.1	4.48	150	536	417	139	50	
RA		12	24	81	70	15.671	12.31	18.94	15.4	52.8	8.21	291	999	764	271	93	
RA		13	22	81	71	12.240	11.28	17.80	16.1	50.9	7.87	286	907	732	266	84	
RA		14	18	81	73	8.635	9.23	13.43	18.7	62.9	6.91	251	844	642	234	79	
RA		15	17	81	65	7.104	8.72	9.61	23.0	69.1	6.08	221	664	565	205	62	
RA		16	16	81	70	5.872	8.21	9.17	24.7	76.8	6.24	227	704	580	211	66	
RA		17	11	80	71	3.579	5.64	5.53	29.1	82.9	4.43	161	459	412	150	43	
RA		18	6	80	82	1.741	3.08	3.19	30.3	98.2	2.66	97	313	248	90	29	
RA		19	7	82	61	1.823	3.59	2.86	30.2	83.6	2.42	87	240	225	81	22	
RA		20	8	81	59	1.880	4.10	2.59	40.5	93.6	2.88	105	242	268	97	23	
RA		21	6	80	66	1.279	3.08	2.13	39.5	113.0	2.32	84	241	215	78	22	
RA		22	1	85	31	.194	.51	.19	38.3	30.0	.20	7	6	19	7	1	
RA		24	5	80	75	.816	2.56	1.63	48.4	166.0	2.17	79	271	202	74	25	
RA		25	1	81	61	.150	.51	.30	46.3	150.0	.38	14	45	35	13	4	
RA		26	4	80	71	.556	2.05	1.11	56.1	188.8	1.72	62	210	160	58	20	
RA		27	1	77	61	.129	.51	.26	53.3	150.0	.38	14	39	35	13	4	
RA		30	1	80	66	.104	.51	.21	63.1	220.0	.36	13	46	34	12	4	
RA		31	1	79	75	.098	.51	.20	86.1	240.0	.46	17	47	43	16	4	
RA	Totals	173	81	69		82.480	88.72	111.49	20.4	64.9	63.25	2,278	7,237	5,882	2,119	673	
DF		11	1	86	68	1.554	1.03	1.55	11.0	40.0	.49	17	62	45	16	6	
DF		13	2	84	82	2.225	2.05	3.34	13.7	50.0	1.30	46	167	121	42	16	
DF		14	1	88	113	.959	1.03	.96	24.5	120.0	.95	24	115	88	22	11	
DF		15	2	83	64	1.672	2.05	2.51	14.9	43.3	1.06	37	109	99	35	10	
DF		16	3	88	104	2.204	3.08	4.41	21.1	90.0	2.65	93	397	247	87	37	
DF		17	4	85	92	2.603	4.10	4.55	22.2	80.0	2.89	101	364	268	94	34	
DF		18	2	86	115	1.161	2.05	2.90	22.9	98.0	1.89	66	284	176	62	26	
DF		20	2	83	111	.940	2.05	1.88	33.0	127.5	1.77	62	240	165	58	22	
DF		21	3	84	75	1.279	3.08	2.56	26.4	88.3	1.92	67	226	179	63	21	
DF		22	2	86	117	.777	2.05	1.55	45.8	207.5	2.03	71	322	189	66	30	
DF		23	3	88	118	1.066	3.08	2.13	49.0	223.3	2.98	105	476	277	97	44	
DF		24	2	86	115	.653	2.05	1.31	53.5	237.5	1.99	70	310	185	65	29	
DF		25	3	85	119	.903	3.08	1.50	63.5	298.0	2.97	95	448	276	89	42	

TC TSTNDSUM

Stand Table Summary

Project **BRIXD DW**

T03N R08W S20 T0001

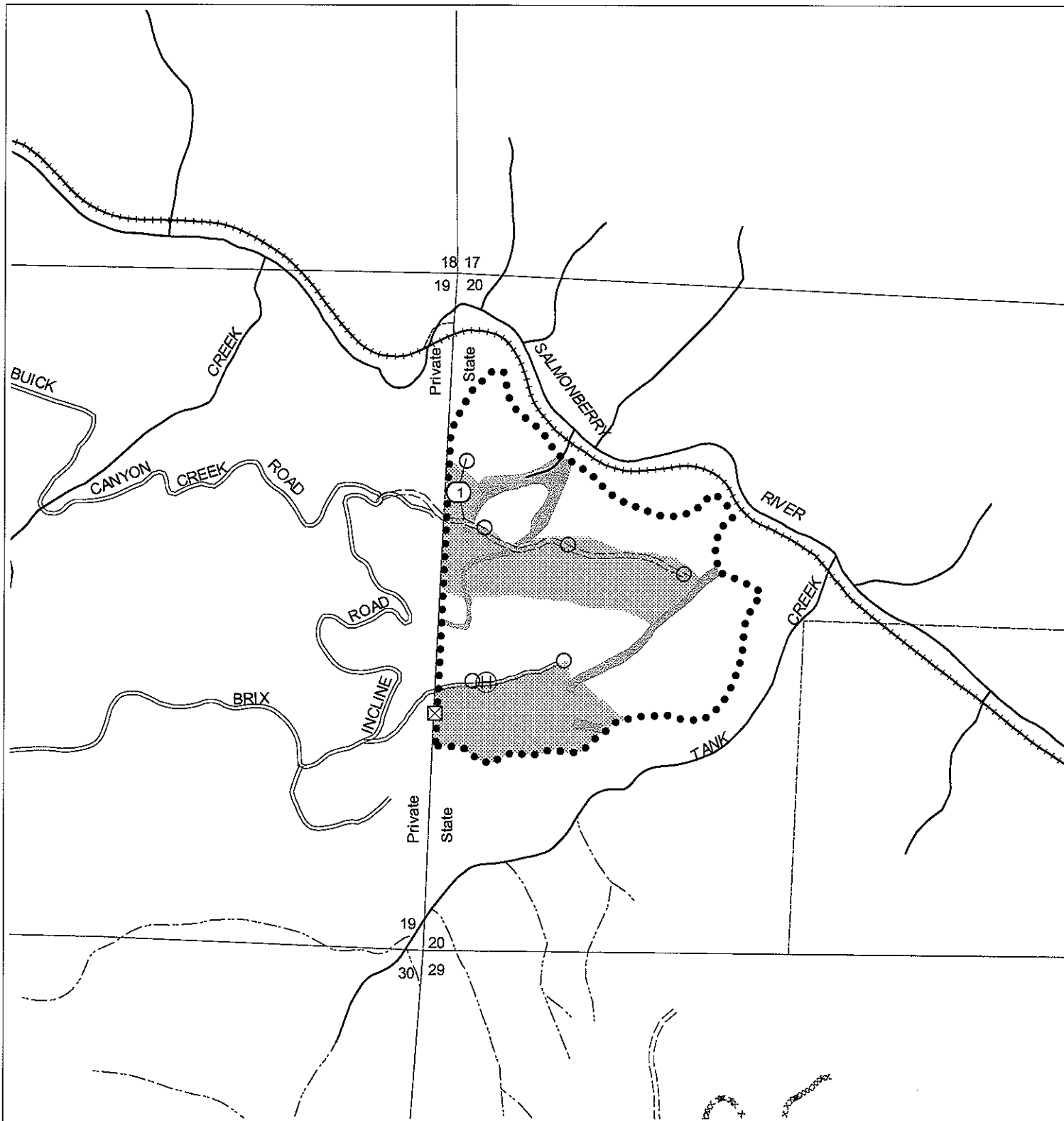
T03N R08W S20 T0001

Twp Rge Sec Tract
03N 08W 20 AREA 1

Type Acres Plots Sample Trees
0001 93.00 39 249

Page: **2**
 Date: **09/14/201**
 Time: **2:48:09PM**

S Spec	T	Sample DBH	FF Trees	Av Ht 16'	Tot	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals		
									Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF
DF	Totals	30	85	95	17.996	30.77	31.16	27.4	113.0	24.90	855	3,521	2,315	795	327	
Totals		249	82	77	108.776	166.67	164.51	31.3	123.1	143.67	5146	20,247	13,362	4,786	1,883	



- | | | | |
|---|------------------------------|---------|-------------------------|
| ○ | Landing | ---+--- | Area boundary |
| Ⓧ | Domestic water supply intake | ●●●●● | Sale boundary |
| Ⓜ | Helicopter landing zone | ----- | Ownership boundary |
| Ⓣ | Truck turn-around | ----- | Perennial Type-F stream |
| ⓧ | Survey corner | ----- | Perennial Type-N stream |
| □ | Cable yarding | ===== | Surfaced road |
| ▨ | Ground yarding | ===== | Unsurfaced road |
| ▩ | Helicopter yarding | ===== | State/Federal highway |
| ▧ | Downhill yarding | ===== | County road |
| ▦ | Buffer | ---②--- | Non-project road |
| ▨ | Non-required thinning | ---A--- | Swing road |
| | | ----- | Legacy road |
| | | xxxx | Blocked road |
| | | ○○○○○ | OHV trail |
| | | ----- | Non-motorized trail |
| | | T T | Transmission line |

LOGGING PLAN

Timber Sale Contract No. 341-08-02
 Brix Deuce
 Portions of Section 20
 T3N, R7W, W. M.
 Tillamook County, Oregon

Type of Operation	Acres Gross	Net
Retention Cut	98	93



Tillamook District GIS
 September 14, 2007
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