



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal  
Clay Tunnel  
Sale 341-10-79

District: Tillamook

Date: March 10, 2010

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**cost summary**

	<b>Conifer</b>	<b>Hardwood</b>	<b>Total</b>
<b>Gross Timber Sale Value</b>	\$1,077,228.11	\$202,414.84	\$1,279,642.95
		<b>Project Work:</b>	\$(113,860.00)
		<b>Advertised Value:</b>	\$1,165,782.95



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**timber description**

**Location:** Portions of Sections 28 and 29, T3N, R7W, W.M., Tillamook County, Oregon.

**Stand Stocking:** 40%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	23	0	95
Alder (Red)	14	0	95

Volume by Grade	10" - 11"	12"+	2S	3S	4S	6" - 7"	8" - 9"	Total
Douglas - Fir	0	0	4,135	1,586	250	0	0	5,971
Alder (Red)	180	156	0	0	0	330	196	862
Total	180	156	4,135	1,586	250	330	196	6,833



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**comments:** Pond Values Used: 4th Quarter Calendar Year 2009.

Western Hemlock and Other Conifers Stumpage Price = Pond Value  
minus Logging Cost  
 $\$100/\text{MBF} = \$310/\text{MBF} - \$210/\text{MBF}$

Western Red Cedar Stumpage Price = Pond Value minus Logging Cost  
 $\$580/\text{MBF} = \$790/\text{MBF} - \$210/\text{MBF}$

Pulp (Conifer & Hardwood) Price = \$31.59/MBF  
(See attached Pulp Appraisal sheet)

Notes: Additional cost added to haul 653 MBF Oversize (one end  
with diameter 30"+) Douglas-fir logs.

SCALING COST ALLOWANCE = \$5.00/MBF

FUEL COST ALLOWANCE = \$3.00/Gallon

HAULING COST ALLOWANCE  
Hauling costs equivalent to \$700 daily truck cost.

Other Costs (with Profit & Risk to be added):  
Brand and Paint:  $\$1/\text{MBF} \times 6,833 \text{ MBF} = \$6,833$   
Additional hauling cost for oversize Douglas-fir:  $\$127.83$  (1 trip  
@ 5 MBF/ trip)  $-\$71.01$  (2 trips @ 4.5 MBF/ trip)  $\times 653 \text{ MBF} = \$$   
 $37,103.46$   
TOTAL Other Costs (with Profit and Risk to be added) = \$43,936.46

Other Costs (No Profit & Risk added):  
None.

#### ROAD MAINTENANCE

Buck Mtn, North Side, Salmonberry, Clay Creek Roads  
Interm Grading:  $\$250/\text{mile} \times 11.3 \text{ miles} \times 3 \text{ gradings} / 6,833 \text{ MBF} = \$$   
 $1.24$   
Final Grading:  $\$500/\text{mile} \times 11.3 \text{ miles} / 6,833 \text{ MBF} = \$ 0.83$   
Spot rocking (from STATE stockpile):  $(300 \text{ cy crushed} \times \$9.85/\text{cy}) /$   
 $6,833 \text{ MBF} = \$ 0.43$

Buck Mtn Road - process and compact first 4 miles  
 $211 \text{ stations} \times \$11/\text{station} + \$111 \text{ move in} / 6,833 \text{ MBF} = \$ 0.36$

Total Road Maintenance: \$ 2.86



"STEWARDSHIP IN FORESTRY"

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District: Tillamook

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## logging conditions

**combination#: 1** Douglas - Fir 71.19%  
Alder (Red) 70.83%

**yarding distance:** Medium (800 ft) **downhill yarding:** No  
**logging system:** Cable: Medium Tower >40 - <70 **Process:** Stroke Delimber  
**tree size:** Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF  
**loads / day:** 7.5 **bd. ft / load:** 4,000  
**cost / mbf:** \$111.47

**machines:** Log Loader (A)  
Stroke Delimber (A)  
Tower Yarder (Medium)

**combination#: 2** Douglas - Fir 23.41%  
Alder (Red) 29.17%

**yarding distance:** Short (400 ft) **downhill yarding:** No  
**logging system:** Track Skidder **Process:** Stroke Delimber  
**tree size:** Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF  
**loads / day:** 9.5 **bd. ft / load:** 4,000  
**cost / mbf:** \$37.85

**machines:** Stroke Delimber (B)

**combination#: 3** Douglas - Fir 4.78%

**yarding distance:** Medium (800 ft) **downhill yarding:** No  
**logging system:** Cable: Medium Tower >40 - <70 **Process:** Stroke Delimber  
**tree size:** Mature / Partial Cut (900 Bft/tree), 3-5 logs/MBF  
**loads / day:** 6.0 **bd. ft / load:** 4,000  
**cost / mbf:** \$139.34

**machines:** Log Loader (A)  
Stroke Delimber (A)  
Tower Yarder (Medium)

**combination#: 4** Douglas - Fir 0.61%

**yarding distance:** Short (400 ft) **downhill yarding:** No  
**logging system:** Track Skidder **Process:** Stroke Delimber  
**tree size:** Mature / Partial Cut (900 Bft/tree), 3-5 logs/MBF  
**loads / day:** 8.0 **bd. ft / load:** 4,000  
**cost / mbf:** \$44.94

**machines:** Stroke Delimber (B)



"STEWARDSHIP IN FORESTRY"

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**logging costs**

Operating Seasons:	2.00	Profit Risk:	15.00%
Project Costs:	\$113,860.00	Other Costs (P/R):	\$43,936.46
Slash Disposal:	\$0.00	Other Costs:	\$0.00

**Miles of Road**

Road Maintenance: \$2.86

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	4.5
Alder (Red)	\$0.00	3.0	2.5



Timber Sale Appraisal  
 Clay Tunnel  
 Sale 341-10-79

"STEWARDSHIP IN FORESTRY"

District: Tillamook

Date: March 10, 2010

**logging costs breakdown**

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
<b>Douglas - Fir</b>									
\$95.16	\$3.00	\$1.28	\$71.01	\$6.43	\$26.53	\$0.00	\$5.00	\$0.00	\$208.41
<b>Alder (Red)</b>									
\$89.99	\$3.00	\$1.28	\$84.21	\$6.43	\$27.74	\$0.00	\$5.00	\$0.00	\$217.65

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$388.82	\$180.41	\$0.00
Alder (Red)	\$0.00	\$452.47	\$234.82	\$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	5,971	\$180.41	\$1,077,228.11
Alder (Red)	862	\$234.82	\$202,414.84

**Gross Timber Sale Value**

Recovery: \$1,279,642.95

Prepared by: David Wells

Phone: 503-842-2545

## Pulp Appraisal

<b>Sale Name</b>	<b>Clay Tunnel</b>
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<b>Species</b>	<b>Douglas-fir</b>	<b>Alder</b>
<b>Stems Per/ac.</b>	44	34
<b>Acres</b>	236	236
<b>Total Stems</b>	10384	8024
<b>BF/Stem, Conversion</b>	10	10
<b>Total MBF Per/Species</b>	104	80
<b>Pond Value Per/MBF</b>	\$260	\$320
<b>Logging + Hauling Costs</b>	\$210.01	\$294.10
<b>Stumpage</b>	\$49.99	\$25.90
<b>Tons Per/MBF, Conversion</b>	10	10
<b>Price Per/Ton</b>	\$5.00	\$2.59
<b>Total Tons Per/Species</b>	1038	802
<b>Total Value</b>	\$5,190.96	\$2,078.22
<b>Less P/R 20%</b>	\$4,152.77	\$1,662.57

	<b>Total Price</b>	<b>Price/Ton</b>	<b>Price/MBF</b>
<b>Total Price</b>	\$7,269.18	\$3.95	\$39.49
<b>Total Less P/R 20%</b>	\$5,815.34	\$3.16	\$31.59

<b>Contract Price</b>	<b>\$31.59</b>
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## PROJECT SUMMARY SHEET

Sale: Clay Tunnel

### CONSTRUCTION

Point	C to D	2+50	stations =	\$3,266.40
Point	O to P	8+40	stations =	\$7,891.06
Point	AA to BB	13+75	stations =	\$29,559.06
<b>SUBTOTAL CONSTRUCTION</b>				<b>\$40,716.52</b>

### IMPROVEMENT

Point	A to B	104+90	stations =	\$3,577.98
Point	E to F	20+55	stations =	\$476.31
Point	G to H	2+90	stations =	\$191.63
Point	I to J	4+30	stations =	\$978.49
Point	K to L	3+85	stations =	\$950.78
Point	M to N	8+60	stations =	\$7,229.34
Point	S to T	106+20	stations =	\$3,341.94
Point	U to V	1+20	stations =	\$474.84
Point	W to X	1+30	stations =	\$1,557.52
Point	B to C	17+00	stations =	\$713.30
Point	DD	0+00	stations =	\$895.70
<b>SUBTOTAL IMPROVEMENT</b>				<b>\$20,387.83</b>

### SPECIAL PROJECTS

Point	Q to R	Vacate 0.04 miles of road	\$382.76
Point	Y to Z	Vacate 0.62 miles of road	\$3,866.60
Point	CC	Install Bridge	\$43,512.70
Point	EE to FF	Vacate 0.19 miles of road	\$889.30
<b>SUBTOTAL SPECIAL PROJECTS</b>			<b>\$48,651.36</b>

### MOVE IN

**\$4,104.29**

**GRAND TOTAL**

**\$113,860.00**



# OREGON DEPARTMENT OF FORESTRY

## CRUISE REPORT

### *Clay Tunnel*

1. **Type of Sale**

Regeneration/ Thinning harvest, Recovery

2. **Legal Description**

Sections 28 and 29, T3N, R7W, W.M. Tillamook County, Oregon

3. **Sale Acreage**

Sale acreage was determined by GPS and orthophotographs along with GIS.

#### ACRES

	<u>Gross</u>	<u>Net</u>
Area 1 (Modified Clearcut)	122	96
Area 2 (Modified Clearcut)	141	104
Area 3 (Partial Cut)	43	30
Area 4 (Partial Cut)	11	6

Gross Acres

Area within the Timber Sale Boundary signs

Net acres

Used for calculating the advertised volume.

Gross acres, less green tree retention, roads, Non-required thinning areas, and riparian areas classified as Special Stewardship in LMCS inside the sale boundary.

4. **Cruising Procedures**

**A. Cruise Method**

The sale was variable plot cruised, measuring heights to the nearest foot and diameters to the nearest inch. Plot spacing was 350' apart and lines were 700' apart on a N45<sup>0</sup>E bearing. A total of 48 plots were taken with CV% and SE% for the net board foot/ acre below:

Area	Plots	CV (%)	SE (%)
1	18	54.7	13.3
2	24	44.3	9.2
3	4	47.0	26.9
4	2	49.2	46.1

**B. Plot size**

40 BAF, Trees observed at 4.5'

### **C. Grading System**

Tree heights were measured to a 6" merchantable top for conifers and a 7" top for hardwoods or 1/3 of diameter whichever was greater. Trees were graded using Columbia River Log Scaling and Grading rules favoring 40' logs.

#### **5. Computation Procedure**

Plot data was entered into SuperAce for computation of stand volume. Areas 3 and 4 designated take and leave trees from final cruise data based on diameters.

#### **6. Hidden Defect and Breakage**

A 5% and 10% defect and breakage was applied to conifers and hardwoods respectively in addition to the visual defect. The volume summary includes both hidden defect and observed defect in the net volume.

#### **7. Timber Description**

The western half of the sale area was burned in the 1945 Salmonberry Fire and Area 4 was replanted in 1963-64. The rest of the area regenerated naturally into a Douglas-fir stand with alder pockets. Area 4 was pre-commercially thinned in 1978. About 1/3 of the area was previously commercially thinned in 1994 and 2001.

#### **8. Cruiser Names/Dates**

Contract cruised, 2008

#### **9. Revenue Distribution**

100% FDF

Tax Code: 56-1

Deed Numbers: 35, 70, 96, 391

#### **10. Attachments**

Stand Tables

Volume Summary

Log Stock Tables

Logging Plan

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

DL – Douglas-fir leave

DF – Douglas-fir take

NF – Noble fir

RA – Red alder

SS – Sitka spruce

WH – Western hemlock



"STEWARDSHIP IN FORESTRY"

## Clay Tunnel

### Volume Summary

Area 1-Modified Clearcut				
96 acres				
SPECIES	Gross MBF/ Acre	Gross MBF	Hidden D&B	Net Vol MBF
Douglas-fir	20.0	1919	5%	1788
Alder	6.3	601	10%	527
<b>TOTAL</b>	<b>26.3</b>	<b>2520</b>		<b>2315</b>

Area 2-Modified Clearcut				
104 acres				
SPECIES	Gross MBF/ Acre	Gross MBF	Hidden D&B	Net Vol MBF
Douglas-fir	39.6	4121	5%	3861
Alder	3.8	393	10%	335
<b>TOTAL</b>	<b>43.4</b>	<b>4514</b>		<b>4196</b>

Area 3-Partial cut				
30 acres				
SPECIES	Gross MBF/ Acre	Gross MBF	Hidden D&B	Net Vol MBF
Douglas-fir	8.6	258	5%	244
<b>TOTAL</b>	<b>8.6</b>	<b>258</b>		<b>244</b>

Area 4-Partial Cut				
6 acres				
SPECIES	Gross MBF/ Acre	Gross MBF	Hidden D&B	Net Vol MBF
Douglas-fir	15.8	95	5%	78
<b>TOTAL</b>	<b>15.8</b>	<b>95</b>		<b>78</b>

TOTAL SALE VOLUME			236	acres
SPECIES	Gross Vol. (MBF)	Net Vol. (MBF)		
Douglas-fir	6393	5971		
Alder	994	862		
<b>TOTAL</b>	<b>7387</b>	<b>6833</b>		

TC TSTNDSUM		Stand Table Summary														
Project													CLAYTNNL			
T03N R07W S29 TSALE										T03N R07W S29 TSALE						
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page:	1							
03N	07W	29	AREA 2	SALE	104.00	24	142	Date:	03/01/2010							
								Time:	8:07:10AM							
S Spc	T	Sample		Av	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net	Net	Totals			
		DBH	Trees	FF 16'				Ht Tot	Net Cu.Ft.		Net Bd.Ft.	Tons/ Acre	Cu.Ft. Acre	Bd.Ft. Acre	Tons	Cunits
DF		9	1	91	82	3.811	1.68	3.81	9.7	38.0	1.05	37	145	110	38	15
DF		10	2	88	95	6.142	3.35	3.09	11.6	38.0	1.02	36	117	106	37	12
DF		12	1	88	126	2.144	1.68	4.29	14.9	61.8	1.83	64	265	190	67	28
DF		13	1	87	103	1.826	1.68	3.65	15.0	52.3	1.56	55	191	162	57	20
DF		14	2	89	88	3.134	3.35	4.72	14.5	66.5	1.95	68	314	202	71	33
DF		15	1	88	127	1.372	1.68	4.12	17.0	76.0	2.00	70	313	208	73	33
DF		16	2	87	109	2.411	3.37	6.03	20.7	85.5	3.56	125	515	370	130	54
DF		17	2	80	110	2.136	3.37	5.34	23.0	85.5	3.51	123	457	365	128	47
DF		18	4	82	143	3.811	6.73	11.43	27.0	97.4	8.84	309	1,113	920	321	116
DF		19	2	84	138	1.710	3.37	5.13	28.5	120.3	4.17	146	617	434	152	64
DF		20	2	86	85	1.536	3.35	2.31	35.0	136.2	2.31	81	315	240	84	33
DF		21	4	83	141	2.793	6.72	7.00	34.5	147.3	6.89	242	1,031	717	251	107
DF		22	5	85	119	3.182	8.40	8.29	37.8	163.7	8.97	314	1,357	933	326	141
DF		23	3	84	159	1.750	5.05	7.00	36.0	168.6	7.18	252	1,181	746	262	123
DF		24	3	86	158	1.608	5.05	5.89	45.4	213.3	7.63	268	1,257	794	278	131
DF		25	10	83	154	4.939	16.84	17.78	48.1	213.0	24.48	856	3,786	2,546	890	394
DF		26	13	84	159	5.936	21.89	22.83	50.4	235.4	32.77	1,150	5,374	3,408	1,196	559
DF		27	6	85	164	2.540	10.10	9.74	57.0	270.5	15.82	555	2,635	1,645	577	274
DF		28	16	83	158	6.299	26.94	24.41	54.7	258.0	38.07	1,335	6,298	3,959	1,389	655
DF		29	7	82	145	2.569	11.78	9.18	62.9	279.3	16.48	577	2,563	1,713	600	267
DF		30	3	85	129	1.025	5.03	2.74	64.5	314.7	5.04	177	863	524	184	90
DF		31	5	83	167	1.606	8.42	6.75	68.2	329.3	13.14	460	2,221	1,366	478	231
DF		32	4	83	167	1.206	6.73	4.82	77.0	379.4	10.58	371	1,830	1,100	386	190
DF		34	3	81	156	.801	5.05	2.94	86.5	409.4	7.24	254	1,202	753	264	125
DF		35	2	86	88	.501	3.35	1.01	85.4	429.9	2.45	86	433	255	89	45
DF		36	1	81	162	.238	1.68	.95	88.4	377.6	2.44	84	360	254	88	37
DF		38	1	80	140	.214	1.68	.64	124.9	570.0	2.28	80	366	237	83	38
DF		40	5	89	37	.955	8.33									
DF		45	2	90	56	.302	3.33									
DF		55	1	90	84	.101	1.67									
DF	Totals	114	85	130		68.598	191.67	185.89	44.0	199.7	233.25	8,174	37,120	24,258	8,501	3,861
RA		11	1	83	99	2.525	1.67	5.05	9.4	36.0	1.30	47	182	136	49	19
RA		12	3	80	81	6.366	5.00	8.49	15.4	33.7	3.63	131	286	378	136	30
RA		14	3	83	88	4.677	5.00	9.35	16.8	57.0	4.31	157	533	448	163	55
RA		15	3	80	87	4.074	5.00	8.15	18.9	54.0	4.24	154	440	441	160	46
RA		16	1	81	79	1.194	1.67	2.39	21.4	63.0	1.41	51	150	146	53	16
RA		17	4	82	86	4.229	6.67	7.40	29.5	90.0	6.00	218	666	624	227	69
RA		18	2	80	80	1.886	3.33	3.77	27.4	81.0	2.87	103	306	299	107	32
RA		19	1	81	110	.846	1.67	1.69	40.2	121.5	1.87	68	206	195	71	21
RA		21	2	83	103	1.386	3.33	3.46	37.5	131.4	3.58	130	455	372	135	47
RA	Totals	20	81	87		27.185	33.33	49.76	21.3	64.8	29.22	1,060	3,225	3,039	1,103	335
WH		8	1	72	30	4.775	1.67	4.77	4.1	19.0	.63	20	91	66	20	9
WH		24	1	80	106	.531	1.67	1.06	61.0	204.3	2.11	65	217	219	67	23
WH		26	1	83	133	.452	1.67	1.36	61.8	256.5	2.68	84	348	279	87	36
WH		27	2	79	99	.838	3.33	1.68	76.0	178.1	4.12	127	299	428	133	31
WH	Totals	5	74	52		6.596	8.33	8.87	33.3	107.6	9.54	296	954	992	308	99
NF		18	1	91	115	.943	1.67	2.83	24.4	107.7	1.66	69	305	173	72	32
NF	Totals	1	91	115		.943	1.67	2.83	24.4	107.7	1.66	69	305	173	72	32
BM		17	1	80	65	1.057	1.67	1.06	40.4	120.0	1.13	43	127	118	44	13

TC TSTNDSUM		Stand Table Summary													
Project											CLAYTNNL				
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S Spc	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
BM	Totals	1	80	65	1.057	1.67	1.06	40.4	120.0	1.13	43	127	118	44	13
Totals		141	83	113	104.379	236.67	248.41	38.8	168.0	274.80	9642	41,730	28,579	10,028	4,340

TC TSTNDSUM		Stand Table Summary																
Project											CLAYTNL							
T03N R07W S29 TSALE											T03N R07W S29 TSALE							
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees				Page:	1						
03N	07W	29	AREA 3	SALE	30.00	4	21				Date:	03/02/2010						
											Time:	7:32:58AM						
Spc	S T	Sample			Av	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net	Net	Totals				
		DBH	Trees	FF 16'	Ht Tot				Net Cu.Ft.	Net Bd.Ft.		Cu.Ft. Acre	Bd.Ft. Acre	Tons	Cunits	MBF		
DL		19	1	86	131	5.079	10.00	15.24	29.7	133.3	12.43	452	2,032	373	136	61		
DL		21	1	85	170	4.158	10.00	12.47	43.8	210.0	15.01	546	2,619	450	164	79		
DL		25	1	83	154	2.934	10.00	11.73	42.7	197.5	13.97	501	2,318	419	150	70		
DL		26	2	80	147	5.424	20.00	18.99	51.3	222.9	26.80	975	4,231	804	292	127		
DL		28	3	82	160	7.016	30.00	25.72	62.6	303.6	44.35	1,611	7,811	1,330	483	234		
DL		33	3	82	173	5.051	30.00	20.20	83.8	443.3	46.54	1,692	8,957	1,396	508	269		
DL		34	1	89	160	1.586	10.00	6.34	88.5	460.0	15.57	561	2,918	467	168	88		
DL		Totals	12	83	156	31.247	120.00	110.70	57.3	279.0	174.68	6,338	30,885	5,240	1,901	927		
DF		23	1	86	119	3.466	10.00	10.40	40.8	167.8	12.09	424	1,745	363	127	52		
DF		24	1	81	135	3.183	10.00	9.55	45.7	177.3	12.44	436	1,693	373	131	51		
DF		25	2	83	161	5.867	20.00	23.47	43.7	200.7	29.24	1,026	4,710	877	308	141		
DF		45	1	90	25	.905	10.00											
DF		Totals	5	84	135	13.422	50.00	43.42	43.5	187.7	53.77	1,887	8,148	1,613	566	244		
RA		11	1	79	88	15.153	10.00	15.15	17.1	54.0	7.14	260	818	214	78	25		
RA		16	1	81	94	7.162	10.00	14.32	26.0	81.0	10.26	373	1,160	308	112	35		
RA		17	1	81	107	6.344	10.00	12.69	32.2	108.0	11.23	408	1,370	337	123	41		
RA		Totals	3	80	94	28.659	30.00	42.16	24.7	79.4	28.63	1,041	3,349	859	312	100		
BM		12	1	73	84	12.732	10.00	12.73	22.4	60.0	7.55	285	764	226	85	23		
BM		Totals	1	73	84	12.732	10.00	12.73	22.4	60.0	7.55	285	764	226	85	23		
Totals			21	81	121	86.060	210.00	209.01	45.7	206.4	264.62	9550	43,147	7,939	2,865	1,294		

TC TSTNDSUM		Stand Table Summary																
Project											CLAYTNL							
T03N R07W S29 TSALE											T03N R07W S29 TSALE							
Twp	Rge	Sec	Tract		Type	Acres	Plots	Sample Trees			Page:							
03N	07W	29	AREA 4		SALE	6.00	2	14			1							
											Date:	02/10/2010						
											Time:	11:13:35AM						
S Spec	T	Sample		Av	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals					
		DBH	Trees	FF 16'				Ht Tot	Net Cu.Ft.				Net Bd.Ft.	Tons	Cunits	MBF		
DL		27	1	86	159	5.030	20.00	20.12	53.4	285.0	29.55	1,075	5,734	177	64	34		
DL		28	1	82	158	4.677	20.00	18.71	51.3	252.5	26.41	961	4,724	158	58	28		
DL		33	2	79	162	6.734	40.00	26.94	68.6	337.5	50.85	1,849	9,092	305	111	55		
DL		35	1	79	133	2.993	20.00	8.98	98.2	440.0	24.24	882	3,951	145	53	24		
DL		37	1	81	153	2.679	20.00	10.71	96.0	495.0	28.27	1,028	5,304	170	62	32		
DL		Totals		6	81	155	22.114	120.00	85.46	67.8	337.0	159.33	5,794	28,805	956	348	173	
DF		13	1	89	94	21.698	20.00	43.40	14.5	57.0	17.93	629	2,474	108	38	15		
DF		17	1	89	40	12.688	20.00											
DF		20	1	88	141	9.167	20.00	27.50	34.9	152.0	27.34	959	4,180	164	58	25		
DF		22	2	84	87	15.153	40.00	30.31	29.5	59.4	26.12	894	1,799	157	54	11		
DF		24	1	86	153	6.366	20.00	25.46	39.1	180.5	28.63	996	4,596	172	60	28		
DF		35	1	89	25	2.993	20.00											
DF		40	1	90	54	2.292	20.00											
DF		Totals		8	87	90	70.358	160.00	126.67	27.5	103.0	100.02	3,479	13,050	600	209	78	
Totals				14	86	106	92.471	280.00	212.13	43.7	197.3	259.35	9273	41,854	1,556	556	251	



TC		Stand Table Summary														
Project													CLAYTNL			
T03N R07W S29 TSALE										T03N R07W S29 TSALE						
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page:	1		Date: 03/01/2010					
03N	07W	29	AREA 1	SALE	96.00	18	95	Time:	8:04:17AM							
Spc	S T	Sample		Av	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals			
		DBH	Trees	FF 16'				Ht Tot	Net Cu.Ft.				Net Bd.Ft.	Tons	Cunits	MBF
DF		10	2	78	50	8.149	4.44	4.07	9.2	28.5	1.07	38	116	103	36	11
DF		13	1	81	105	2.411	2.22	4.82	12.1	52.2	1.66	58	252	159	56	24
DF		14	1	83	114	2.079	2.22	4.16	20.9	76.0	2.48	87	316	238	83	30
DF		17	1	86	119	1.410	2.22	4.23	21.7	88.7	2.62	92	375	252	88	36
DF		19	2	86	127	2.257	4.44	6.77	28.2	117.2	5.45	191	793	523	184	76
DF		20	2	83	135	2.037	4.44	6.11	32.6	133.0	5.68	199	813	545	191	78
DF		21	2	82	137	1.848	4.44	5.54	35.8	137.8	5.66	199	764	543	191	73
DF		22	4	78	118	3.367	8.89	8.42	38.3	163.4	9.23	322	1,376	886	309	132
DF		24	1	84	150	.707	2.22	2.12	51.3	209.0	3.11	109	444	298	105	43
DF		25	2	84	150	1.304	4.44	4.56	48.7	210.4	6.33	222	960	608	213	92
DF		26	4	80	138	2.411	8.89	7.84	50.6	288.3	11.30	397	1,632	1,085	381	157
DF		27	3	85	142	1.677	6.67	4.47	49.5	236.3	6.35	221	1,057	610	212	101
DF		28	2	83	161	1.039	4.44	4.16	56.6	273.1	6.70	235	1,136	643	226	109
DF		29	3	81	163	1.453	6.67	5.33	65.5	298.8	9.95	349	1,592	955	335	153
DF		30	2	80	148	.905	4.44	3.17	68.5	291.8	6.19	217	925	594	208	89
DF		31	3	80	141	1.272	6.67	3.82	82.0	351.5	8.92	313	1,341	856	300	129
DF		32	2	81	176	.796	4.44	3.18	76.8	334.9	7.01	244	1,066	673	235	102
DF		33	5	85	65	1.871	11.11	2.62	73.5	306.7	5.53	192	803	531	185	77
DF		34	2	79	150	.705	4.44	2.47	72.5	309.4	5.15	179	763	494	172	73
DF		35	3	89	47	.998	6.67									
DF		36	1	80	154	.314	2.22	.94	118.9	535.2	3.20	112	505	307	108	48
DF		38	1	84	158	.282	2.22	1.13	102.4	567.6	3.29	116	641	316	111	62
DF		39	2	79	150	.536	4.44	1.88	108.2	511.6	5.78	203	959	555	195	92
DF		40	2	89	45	.509	4.44									
DF		45	4	89	49	.805	8.89									
DF		50	1	89	74	.163	2.22									
DF		55	1	89	31	.135	2.22									
DF		60	1	90	41	.113	2.22									
DF		Totals	60	82	109	41.553	133.33	91.81	46.8	202.9	122.66	4,295	18,628	11,775	4,123	1,788
RA		9	1	77	68	5.224	2.31	5.22	10.5	45.0	1.51	55	235	145	53	23
RA		10	1	78	58	4.231	2.31	4.23	10.0	27.0	1.21	42	114	116	41	11
RA		11	3	80	107	10.490	6.92	17.48	11.9	41.4	5.70	207	724	548	199	69
RA		12	3	83	67	8.815	6.92	11.75	13.5	42.8	4.35	158	502	418	152	48
RA		13	3	81	89	7.511	6.92	12.52	16.3	52.2	5.63	205	653	540	196	63
RA		15	3	79	89	5.641	6.92	9.40	23.9	72.0	6.18	225	677	593	216	65
RA		16	1	75	89	1.653	2.31	3.31	23.2	63.0	2.11	77	208	203	74	20
RA		17	2	75	92	2.928	4.62	5.86	18.9	63.0	3.05	111	369	293	107	35
RA		18	3	79	87	3.918	6.92	7.84	30.1	79.5	6.53	236	623	627	226	60
RA		19	4	80	87	4.688	9.23	9.38	33.1	93.4	8.64	311	876	830	298	84
RA		21	1	81	101	.959	2.31	1.92	46.5	135.0	2.45	89	259	236	86	25
RA		23	1	78	101	.800	2.31	1.60	57.4	153.0	2.53	92	245	243	88	23
RA		Totals	26	80	85	56.858	60.00	90.50	20.0	60.6	49.90	1,808	5,485	4,791	1,735	527
DL		40	1	70	137	.255	2.22	.76	89.3	400.0	1.88	68	306	180	66	29
DL		42	1	80	133	.231	2.22	.69	145.1	710.0	2.77	101	492	266	97	47
DL		44	1	77	144	.210	2.22	.84	109.7	552.5	2.54	92	465	244	89	45
DL		47	1	73	137	.184	2.22	.55	178.8	763.3	2.72	99	422	261	95	41
DL		Totals	4	75	138	.881	8.89	2.85	126.3	590.8	9.90	360	1,685	951	346	162
WH		16	1	76	69	1.592	2.22	3.18	19.0	42.8	1.94	61	136	186	58	13
WH		34	1	79	120	.352	2.22	1.06	85.4	291.3	2.95	90	308	283	87	30

TC TSTNDSUM		Stand Table Summary														
Project											CLAYTNNL					
T03N R07W S29 TSALE											T03N R07W S29 TSALE					
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page:	2							
03N	07W	29	AREA 1	SALE	96.00	18	95	Date:	03/01/2010							
								Time:	8:04:17AM							
S Spec	T	Sample DBH	FF Trees	Av Ht 16' 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	
WH		Totals	2	77	78	1.944	4.44	4.24	35.6	104.7	4.89	151	444	469	145	43
BM		14	1	80	87	2.079	2.22	4.16	15.9	50.0	1.75	66	208	168	64	20
BM		Totals	1	80	87	2.079	2.22	4.16	15.9	50.0	1.75	66	208	168	64	20
SS		13	1	74	30	2.411	2.22	2.41	12.2	20.0	.76	29	48	73	28	5
SS		Totals	1	74	30	2.411	2.22	2.41	12.2	20.0	0.76	29	48	73	28	5
Totals			94	80	94	105.725	211.11	195.97	34.2	135.2	189.86	6709	26,498	18,227	6,441	2,544

TC TLOGSTVB

## Log Stock Table - MBF

Project: CLAYTNL

T03N R07W S29 TSALE

T03N R07W S29 TSAL

Twp

Rge

Sec

Tract

Type

Acres

Plots

Sample Trees

Page 1

Date 2/10/2010

Time 11:15:26AM

03N

07W

29

AREA 1

SALE

96.00

18

95

Spp	T	S	So	Gr	Log	Gross	% Def	Net	% Spc	Net Volume by Scaling Diameter in Inches											
										MBF	MBF	MBF	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23
DF		DO	2M	24	14	5.0	14	.8									14				
DF		DO	2M	32	589	6.9	548	30.7					40		118	236	101		53		
DF		DO	2M	40	813	7.9	749	41.9					75		93	307	217		57		
DF		DO	3M	20	5	5.0	5	.3							5						
DF		DO	3M	22	8	5.0	8	.4				2		6							
DF		DO	3M	27	3	5.0	2	.1					2								
DF		DO	3M	29	5	5.0	5	.3					5								
DF		DO	3M	30	2	5.0	2	.1			2										
DF		DO	3M	31	10	5.0	10	.6			2	5	3								
DF		DO	3M	32	238	5.0	226	12.6			3	43	69	77	17	16					
DF		DO	3M	33	3	5.0	3	.2					3								
DF		DO	3M	35	8	5.0	8	.4				8									
DF		DO	3M	36	3	5.0	3	.2			3										
DF		DO	3M	37	4	5.0	4	.2			4										
DF		DO	3M	38	4	5.0	4	.2				4									
DF		DO	3M	40	130	5.0	124	6.9			4	23	59	25	14						
DF		DO	4M	20	1	5.0	1	.0			1										
DF		DO	4M	21	2	5.0	2	.1			2										
DF		DO	4M	24	1	5.0	1	.1				1									
DF		DO	4M	26	4	5.0	4	.2				4									
DF		DO	4M	27	16	5.0	15	.8			15										
DF		DO	4M	30	3	5.0	3	.1			3										
DF		DO	4M	31	10	5.0	10	.6				10									
DF		DO	4M	32	6	5.0	6	.3			3										
DF		DO	4M	33	13	5.0	13	.7			13										
DF		DO	4M	34	8	5.0	7	.4			7										
DF		DO	4M	38	7	5.0	6	.4			6										
DF		DO	4M	40	8	5.0	8	.4			8										
DF		Totals				1,919	6.8	1,788	70.3			55	36	84	141	224	247	559	332	110	
RA		DO	2M	32	74	14.5	63	12.0					16	47							
RA		DO	2M	40	67	11.0	59	11.3					40		19						
RA		DO	3M	32	18	67.9	6	1.1					6								
RA		DO	3M	40	72	10.0	65	12.3					65								
RA		DO	4M	11																	
RA		DO	4M	16	4	10.0	3	.6			3										
RA		DO	4M	17	6	10.0	5	1.0			5										
RA		DO	4M	19	3	10.0	3	.5			3										
RA		DO	4M	21	11	10.0	10	1.9			10										
RA		DO	4M	22	10	10.0	9	1.7			9										
RA		DO	4M	23	8	10.0	7	1.4			7										
RA		DO	4M	26	3	10.0	3	.6			3										
RA		DO	4M	28	16	10.0	15	2.8			15										
RA		DO	4M	29	21	10.0	19	3.6			19										
RA		DO	4M	31	9	10.0	8	1.5			8										
RA		DO	4M	32	65	10.0	59	11.2				59									
RA		DO	4M	33	25	10.0	23	4.3			23										
RA		DO	4M	37	8	10.0	7	1.3			7										
RA		DO	4M	38	17	10.0	15	2.9			15										
RA		DO	4M	39	6	10.0	5	.9			5										
RA		DO	4M	40	159	10.0	143	27.2				106	37								

TC TLOGSTVB

Log Stock Table - MBF

Project: CLAYTNL

T03N R07W S29 TSALE

T03N R07W S29 TSAL

Twp Rge Sec Tract Type Acres Plots Sample Trees  
 03N 07W 29 AREA 1 SALE 96.00 18 95

Page 2  
 Date 2/10/2010  
 Time 11:15:26AM

Spp	T	So	Gr	Log	Gross	% Def	Net	% Spc	Net Volume by Scaling Diameter in Inches										
									MBF	MBF	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23
RA					Totals	601	12.4	527	20.7			238	96	87	87	19			
DL		DO	2M	32	71	.7	71	43.8								7	39	25	
DL		DO	2M	33	3		3	1.8							3				
DL		DO	2M	40	77		77	47.5									21	56	
DL		DO	3M	20	5		5	2.9								5			
DL		DO	3M	22	2		2	1.1						2					
DL		DO	3M	34	3		3	2.1					3						
DL		DO	3M	40	1		1	.9			1								
DL					Totals	162		162	6.4		1		5	3		12	59	81	
WH		DO	2M	30	24	47.8	13	29.4									13		
WH		DO	3M	32	28	15.3	24	56.2			10					14			
WH		DO	3M	34	3	5.0	3	7.5			3								
WH		DO	4M	20	3	5.0	3	6.8		3									
WH					Totals	59	27.4	43	1.7	3		13				14	13		
SS		DO	4M	23	5		5	100.0		5									
SS					Totals	5		5	.2	5									
BM		DO	CR	24	6		6	30.0			6								
BM		DO	CR	32	18	22.2	14	70.0				14							
BM					Totals	24	16.7	20	.8		6	14							
Total All Species					2,769	8.1	2,544	100.0		63	282	207	233	313	266	585	404	191	

TC TLOGSTVB

**Log Stock Table - MBF**

Project: **CLAYTNL**

**T03N R07W S29 TSALE**

**T03N R07W S29 TSAL**

Twp Rge Sec Tract Type Acres Plots Sample Trees  
**03N 07W 29 AREA 3 SALE 30.00 4 21**

Page 1  
 Date 3/2/2010  
 Time 7:35:17AM

Spp	T	S	So	Gr	Log	Gross	% Def	Net	% Spc	Net Volume by Scaling Diameter in Inches											
										MBF	MBF	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29
DL		DO	2M	32		248	5.7	234	25.3					13	14	113	46	48			
DL		DO	2M	40		381	.2	380	41.0							194	186				
DL		DO	3M	20		6		6	.6					6							
DL		DO	3M	21		9		9	.9			2		6							
DL		DO	3M	22		3		3	.3			3									
DL		DO	3M	30		4		4	.4				4								
DL		DO	3M	31		7		7	.7			4	3								
DL		DO	3M	32		95	1.6	94	10.1					30	47	18					
DL		DO	3M	34		5		5	.5				5								
DL		DO	3M	37		5		5	.5			5									
DL		DO	3M	40		156		156	16.9				6	85	65						
DL		DO	3M	41		8		8	.8			8									
DL		DO	4M	30		12		12	1.2			3	9								
DL		DO	4M	40		6		6	.7				6								
DL		Totals				943	1.8	927	71.6			6	24	26	41	98	126	324	232	48	
DF		DO	2M	32		53	5.0	50	20.5						19	31					
DF		DO	2M	40		112	5.8	106	43.3						67	38					
DF		DO	3M	32		64	5.0	61	24.8					37	23						
DF		DO	3M	40		17	5.0	16	6.7					16							
DF		DO	4M	25		3	5.0	3	1.2			3									
DF		DO	4M	28		6	5.0	5	2.1			5									
DF		DO	4M	31		4	5.0	3	1.4			3									
DF		Totals				258	5.4	244	18.9			3	9		54	110	69				
RA		DO	CR	26		6	10.0	6	5.8			6									
RA		DO	CR	37		11	10.0	10	10.2			10									
RA		DO	CR	40		94	10.0	84	84.0			25		60							
RA		Totals				112	10.0	100	7.8			41		60							
BM		DO	CR	40		23		23	100.0			23									
BM		Totals				23		23	1.8			23									
Total All Species						1,336	3.1	1,294	100.0			9	96	26	155	98	236	394	232	48	

TC TLOGSTVB

**Log Stock Table - MBF**

Project: **CLAYTNL**

T03N R07W S29 TSALE

T03N R07W S29 TSAL

Twp Rge Sec Tract Type Acres Plots Sample Trees Page  
 03N 07W 29 AREA 4 SALE 6.00 2 14 1  
 Date 2/10/2010  
 Time 11:21:36AM

Spp	T	S	So	Gr	Log	Gross	% Def	Net	% Spc	Net Volume by Scaling Diameter in Inches									
										MBF	MBF	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19
DF		DO	2M	32		33	26.8	24	31.2					11	13				
DF		DO	3M	32		17	30.8	12	14.8			4	5	3					
DF		DO	3M	40		36	5.0	34	43.6			11	8		15				
DF		DO	4M	26		4	5.0	4	4.7		4								
DF		DO	4M	29		1	5.0	1	1.7		1								
DF		DO	4M	31		1	5.0	1	1.4		1								
DF		DO	4M	34		2	5.0	2	2.7		2								
DF		Totals				95	17.3	78	31.2		8	15	13	3	26	13			
DL		DO	2M	22		8		8	4.4								8		
DL		DO	2M	32		102	.4	102	58.7						49	53			
DL		DO	2M	40		34		34	19.4						15	18			
DL		DO	3M	28		1		1	.6			1							
DL		DO	3M	31		2		2	1.1			2							
DL		DO	3M	32		22		22	12.9				9	13					
DL		DO	3M	34		3		3	1.5		3								
DL		DO	3M	35		2		2	.9		2								
DL		DO	4M	25		1		1	.4		1								
DL		Totals				173		173	68.8		5	1	2	9	13	49	76	18	
Total All Species						268	6.2	251	100.0		8	5	16	15	12	39	62	76	18

TC TLOGSTVB

**Log Stock Table - MBF**

Project: **CLAYTNL**

**T03N R07W S29 TSALE**

**T03N R07W S29 TSAL**

Twp **03N** Rge **07W** Sec **29** Tract **AREA 2** Type **SALE** Acres **104.00** Plots **24** Sample Trees **142** Page **1**  
 Date **2/10/2010** Time **11:17:20AM**

Spp	T	S	So	Gr	Log	Gross	% Def	Net	% Spc	Net Volume by Scaling Diameter in Inches										
										MBF	MBF	MBF	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19
DF	DO	2M	32			1,417	7.6	1,310	33.9					80	256	747	193	33		
DF	DO	2M	36			55	5.0	52	1.4					9		44				
DF	DO	2M	40			1,352	5.1	1,283	33.2					37	58	729	434	24		
DF	DO	3M	20			5	5.0	5	.1				2	4						
DF	DO	3M	22			16	5.0	15	.4			3		4	8					
DF	DO	3M	23			3	5.0	3	.1			3								
DF	DO	3M	27			4	14.5	4	.1					4						
DF	DO	3M	28			2	5.0	2	.0			2								
DF	DO	3M	30			20	5.0	19	.5			4	15							
DF	DO	3M	31			8	5.0	7	.2			4	4							
DF	DO	3M	32			630	5.1	598	15.5			10	61	223	218	52	34			
DF	DO	3M	33			20	5.0	19	.5			8	11							
DF	DO	3M	34			12	5.0	11	.3			9	2							
DF	DO	3M	35			8	5.0	8	.2			4	3							
DF	DO	3M	36			8	5.0	8	.2			8								
DF	DO	3M	38			6	5.0	5	.1			5								
DF	DO	3M	39			3	5.0	3	.1			3								
DF	DO	3M	40			385	8.9	351	9.1			10	53	73	98	77	40			
DF	DO	3M	41			4	5.0	3	.1			3								
DF	DO	4M	20			4	5.0	4	.1			1								
DF	DO	4M	21			1	5.0	1	.0			1								
DF	DO	4M	22			2	5.0	2	.0				2							
DF	DO	4M	23			4	5.0	4	.1			3	1							
DF	DO	4M	25			3	5.0	3	.1			3								
DF	DO	4M	26			2	5.0	2	.0				2							
DF	DO	4M	27			12	5.0	11	.3			6	5							
DF	DO	4M	28			7	5.0	7	.2				7							
DF	DO	4M	29			10	5.0	10	.3			4	6							
DF	DO	4M	30			14	5.0	13	.3			5	8							
DF	DO	4M	31			9	5.0	8	.2			3	5							
DF	DO	4M	32			7	5.0	7	.2			4	3							
DF	DO	4M	33			2	5.0	1	.0				1							
DF	DO	4M	34			8	5.0	8	.2				8							
DF	DO	4M	35			12	8.1	11	.3			3	3	5						
DF	DO	4M	36			11	5.0	10	.3				10							
DF	DO	4M	40			57	5.0	54	1.4			49	5							
DF	Totals					4,121	6.3	3,861	89.0		101	122	154	312	450	443	1594	627	58	
RA	DO	2M	32			20	10.0	18	5.4						18					
RA	DO	2M	40			35	10.0	31	9.4					31						
RA	DO	3M	32			67	11.7	59	17.5			13	46							
RA	DO	3M	36			33	10.0	30	8.9				30							
RA	DO	3M	40			20	10.0	18	5.3				18							
RA	DO	4M	16			2	10.0	2	.6				2							
RA	DO	4M	17			8	10.0	7	2.2				7							
RA	DO	4M	19			6	10.0	5	1.6				5							
RA	DO	4M	24			12	10.0	10	3.1				10							
RA	DO	4M	26			10	10.0	9	2.7				9							
RA	DO	4M	27			7	10.0	6	1.8				6							
RA	DO	4M	29			6	10.0	5	1.5				5							
RA	DO	4M	32			86	16.0	72	21.5			27	45							

TC TLOGSTVB

**Log Stock Table - MBF**

Project: **CLAYTNL**

**T03N R07W S29 TSALE**

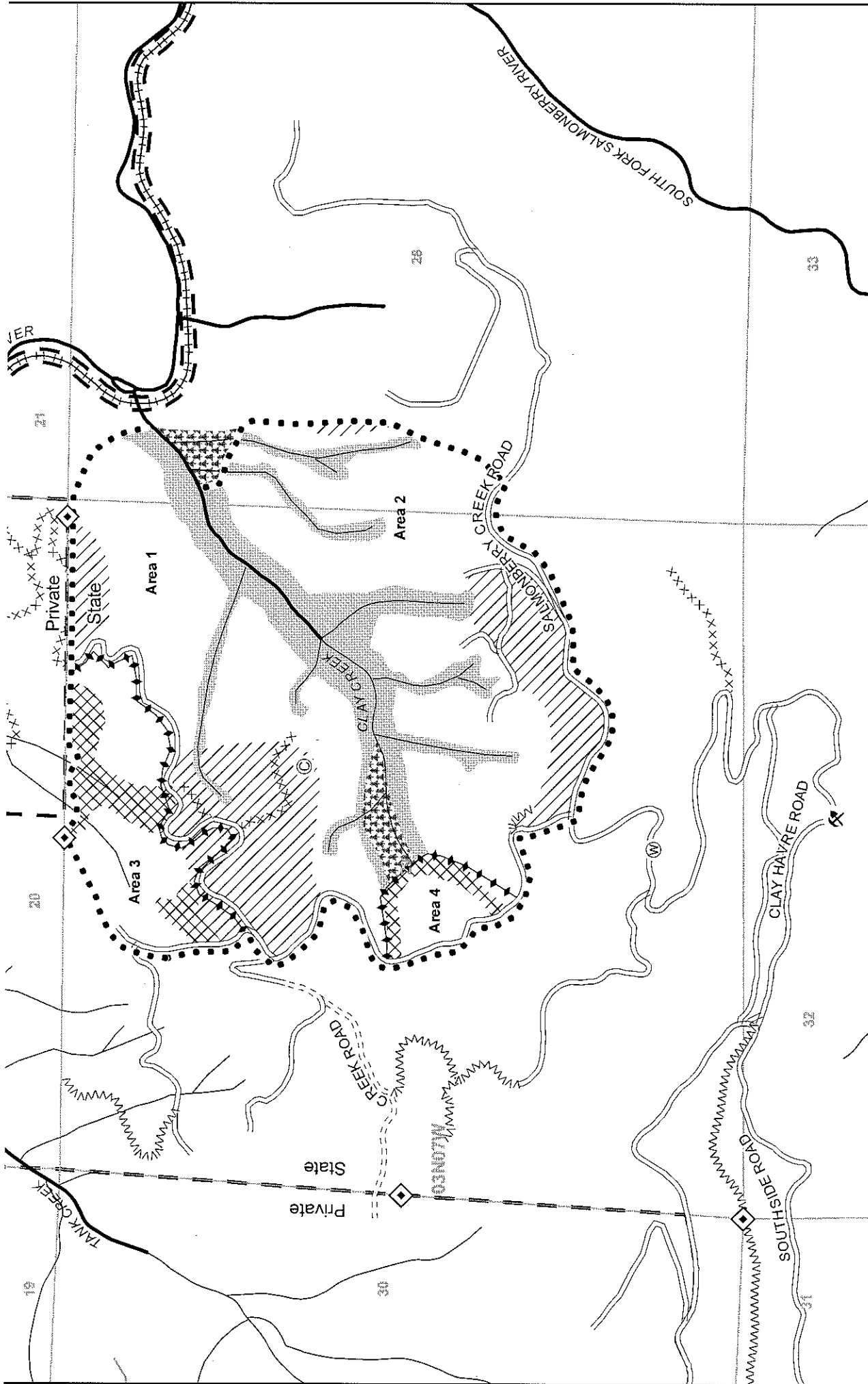
**T03N R07W S29 TSAL**

Twp **03N** Rge **07W** Sec **29** Tract **AREA 2** Type **SALE** Acres **104.00** Plots **24** Sample Trees **142**

Page **2**  
Date **2/10/2010**  
Time **11:17:20AM**

Spp	T	S	So	Gr	Log	Gross	% Def	Net	% Spc	Net Volume by Scaling Diameter in Inches											
										MBF	MBF	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29
RA		DO	4M	40	82	24.5	62	18.5			20	42									
RA		Totals			393	14.6	335	7.7			92	100	93	31	18						
WH		DO	2M	40	25	5.0	24	23.9												24	
WH		DO	3M	40	71	21.6	56	56.3			2			11	18	25					
WH		DO	4M	17	10	5.0	9	9.5		9											
WH		DO	4M	30	2	5.0	2	1.8			2										
WH		DO	4M	40	9	5.0	8	8.5				8									
WH		Totals			117	15.1	99	2.3		9	4	8		11	18	49					
BM		DO	CR	40	13		13	100.0				13									
BM		Totals			13		13	.3				13									
NF		DO	3M	32	30	5.0	29	91.2					11	18							
NF		DO	4M	29	3	5.0	3	8.8		3											
NF		Totals			33	5.0	32	.7		3			11	18							
Total All Species					4,677	7.2	4,340	100.0		113	218	276	416	510	479	1643	627	58			





Area	Type of Operation	Acres
1	Modified clearcut	112 96
2	Modified clearcut	141 104
3	Partial cut	43 30
4	Partial cut	11 6
<b>Total</b>		<b>307 236</b>

Tillamook District GIS  
2-23-2010

This product is for informational use and may not have been prepared or suitable for

**LOGGING PLAN**

Timber Sale Contract No. 341-10-79  
Clay Tunnel

Portions of Sections 28 and 29  
T3N, R7W, W.M.,  
Tillamook County, Oregon

1,000 0 1,000 Feet

- Rock source
- Stock pile
- Waste area
- Bridge
- Gate
- Survey corner
- Domestic water supply intake
- Truck turn-around
- Helicopter landing zone
- Landing
- Buffer
- Non-required thinning
- Cable yarding
- Ground yarding
- Helicopter yarding
- Downhill yarding
- Green tree
- Area boundary
- Sale boundary
- Ownership boundary
- Perennial Type-F stream
- Perennial Type-N stream
- Unsurfaced road
- Surfaced road
- Paved road
- Abandoned road
- A-- Swing road
- Non-project road
- Blocked road
- Road construction
- OHV trail
- Non-motorized trail
- Transmission line
- Railroad