



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Moot Again
Sale 341-08-044

District: Tillamook

Date: October 23, 2007

cost summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$997,762.48	\$879,576.57	\$1,877,339.05
		Project Work:	\$(240,140.00)
		Advertised Value:	\$1,637,199.05



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timber description

Location: Portions of Sections 2, 3, 4, 10 and 11, T2N, R9W, W.M., Tillamook County, Oregon.

Stand Stocking: 60%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	18	0	95
Western Hemlock / Fir	15	0	95
Sitka Spruce	16	0	95
Alder (Red)	14	0	95

Volume by Grade	2S	3S	4S	SM	Total
Douglas - Fir	3,250	1,438	420	0	5,108
Western Hemlock / Fir	1,033	1,242	407	0	2,682
Sitka Spruce	125	105	75	20	325
Alder (Red)	210	981	1,248	0	2,439
Total	4,618	3,766	2,150	20	10,554



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

Western Red Cedar Stumpage Price = Pond Value minus Logging Cost
\$646.67/MBF = \$1,000/MBF - \$353.33/MBF

HAULING

Hauling costs equivalent to \$700 daily truck cost.

Other Costs (Profit and Risk to be added):

Branding and Painting: \$2/MBF x 10,554 MBF = \$21,108

Snag Creation by girdling: \$5/snag x 200 snags = \$1,000

Extra rigging costs in Area 7: \$ 5/MBF x 83 acres x 21 MBF/acre =
\$ 8,715

Extra rigging costs in Area 9: \$10/MBF x 12 acres x 18 MBF/acre =
\$ 2,160

TOTAL Other Costs (Profit and Risk to be added) = \$32,983

Other Costs (No Profit and Risk added):

Slash piling and sorting cable harvest on Areas 2, 5, 6, 7 and 9:
\$2.50/acre x 264 acres = \$ 660

Clearing slash from helicopter landing in Area 5: 2 hours w/ log
loader @ \$125/hour = \$ 250

Non-Project Roads - (Seeding included):

Non-Project Road #1 (Area 3): 3 Stations x \$150.00 = \$ 450

Non-Project Road #2 (Area 4): 11 Stations x \$150.00 = \$ 1,650

Non-Project Road #3 (Area 5): 6 Stations x \$150.00 = \$ 900

Non-Project Road #4 (Area 6): 4 Stations x \$150.00 = \$ 600

Non-Project Road #5 (Area 7): 4 Stations x \$150.00 = \$ 600

Non-Project Road #6 (Area 8): 3 Stations x \$150.00 = \$ 450

Surfacing non-project road junctions: 12 stations x 50 yards pit
run/ sta x \$ 10.00/ yard = \$ 6,000

TOTAL Other Costs (No Profit and Risk added) = \$11,560

ROAD MAINTENANCE

Areas 1, 2, 3, 4, 5, 6 and 7

Grade roads 4 times, \$500/ Mile x 8 miles/ 9877 MBF = \$1.62

Areas 8 and 9

Grade unit roads and Anderson Grade 1 time \$500/Mile x 2.5 miles/
677 MBF = \$ 1.85

Maintenance rock (\$11.00/cy x 10.5 miles x 15 cy/MMBF/mile x
10.5MMBF)/10554 MBF = \$1.72

Compaction Anderson Ridge Road: 181 Stations x \$18/ Station + \$
319/ move-in = \$ 3,577/ 10554 MBF = \$ 0.34

TOTAL ROAD MAINTENANCE: \$5.53



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logging conditions

combination#: 1

Douglas - Fir	61.06%
Western Hemlock / Fir	13.35%
Sitka Spruce	19.35%
Alder (Red)	68.95%

yarding distance: Long (1,500 ft) **downhill yarding:** No
logging system: Cable: Medium Tower >40 - <70 **Process:** Stroke Delimber
tree size: Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF
loads / day: 4.0 **bd. ft / load:** 3,500
cost / mbf: \$238.87

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

combination#: 2

Douglas - Fir	3.96%
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yarding distance: Medium (800 ft) **downhill yarding:** Yes
logging system: Cable: Small Tower <=40 **Process:** Stroke Delimber
tree size: Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF
loads / day: 3.0 **bd. ft / load:** 3,400
cost / mbf: \$347.33

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

combination#: 3

Douglas - Fir	19.66%
Western Hemlock / Fir	69.16%
Sitka Spruce	80.38%
Alder (Red)	22.41%

yarding distance: Long (1,500 ft) **downhill yarding:** No
logging system: Cable: Medium Tower >40 - <70 **Process:** Manual Delimiting
tree size: Mature / Partial Cut (900 Bft/tree), 3-5 logs/MBF
loads / day: 5.3 **bd. ft / load:** 4,000
cost / mbf: \$163.21

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

combination#: 4

Douglas - Fir	15.32%
Western Hemlock / Fir	17.49%
Sitka Spruce	0.26%
Alder (Red)	8.64%



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yarding distance:	Short (400 ft)	downhill yarding:	No
logging system:	Track Skidder	Process:	Manual Falling/Delimiting
tree size:	Small / Thinning 12in (130 Bf/tree), 12-17 logs/MBF		
loads / day:	7.5	bd. ft / load:	3,700
cost / mbf:	\$123.98		
machines:	Log Loader (B) Track Skidder		



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logging costs

Operating Seasons:	2.00	Profit Risk:	15.00%
Project Costs:	\$240,140.00	Other Costs (P/R):	\$32,983.00
Slash Disposal:	\$0.00	Other Costs:	\$11,560.00

Miles of Road

Road Maintenance: \$5.53

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	3.8
Western Hemlock / Fir	\$0.00	3.0	3.4
Sitka Spruce	\$0.00	3.0	3.4
Alder (Red)	\$0.00	2.0	3.2



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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									
\$210.69	\$5.81	\$0.83	\$84.09	\$3.13	\$45.68	\$0.00	\$2.00	\$1.10	\$353.33
Western Hemlock / Fir									
\$166.45	\$5.81	\$0.83	\$62.66	\$3.13	\$35.83	\$0.00	\$2.00	\$1.10	\$277.81
Sitka Spruce									
\$177.75	\$5.81	\$0.83	\$62.66	\$3.13	\$37.53	\$0.00	\$2.00	\$1.10	\$290.81
Alder (Red)									
\$211.99	\$5.81	\$0.83	\$99.87	\$3.13	\$48.24	\$0.00	\$2.00	\$1.10	\$372.97

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$508.02	\$154.69	\$0.00
Western Hemlock / Fir	\$0.00	\$349.34	\$71.53	\$0.00
Sitka Spruce	\$0.00	\$339.31	\$48.50	\$0.00
Alder (Red)	\$0.00	\$733.60	\$360.63	\$0.00



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summary

Amortized

Specie	MBF	Value	Total
Douglas - Fir	0	\$0.00	\$0.00
Western Hemlock / Fir	0	\$0.00	\$0.00
Sitka Spruce	0	\$0.00	\$0.00
Alder (Red)	0	\$0.00	\$0.00

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	5,108	\$154.69	\$790,156.52
Western Hemlock / Fir	2,682	\$71.53	\$191,843.46
Sitka Spruce	325	\$48.50	\$15,762.50
Alder (Red)	2,439	\$360.63	\$879,576.57

Gross Timber Sale Value

Recovery: \$1,877,339.05

Prepared by: David Wells

Phone: 503-842-2545



PROJECT SUMMARY SHEET

Sale: MOOT AGAIN

CONSTRUCTION

Point	A to B	13+25	stations =	\$13,233.73
Point	G to H	10+00	stations =	\$10,982.43
SUBTOTAL CONSTRUCTION				\$24,216.16

IMPROVEMENT

Point	A to B	103+65	stations =	\$103,522.73
Point	C to D	32+80	stations =	\$43,289.71
Point	E to F	14+00	stations =	\$13,828.31
Point	I to J	15+00	stations =	\$17,802.87
Point	K to L	24+80	stations =	\$30,312.26
SUBTOTAL IMPROVEMENT				\$208,755.88

RECONSTRUCTION

Point	I to J	3+65	stations =	\$4,332.03
SUBTOTAL RECONSTRUCTION				\$4,332.03

MOVE IN

\$2,835.93

GRAND TOTAL

\$240,140.00

SUMMARY OF CONSTRUCTION COST

Sale:

MOOT AGAIN

Road:

A to B

Construction - 13+25 stations
0.25 miles

Improvement - 103+65 stations
1.96 miles

CLEARING AND GRUBBING -
Roadside Brushing
Scattering

1.50 miles @
3.000 acres @

\$600.00 per mile = \$900.00
\$980.00 per acre = \$2,940.00

TOTAL CLEARING AND GRUBBING

\$3,840.00

EXCAVATION
ENDHAUL -

Pullback 88+30 to 88+90 400 cy. @
Pullback 18+80 to 19+25 200 cy. @
Widening 79+40 to 103+65 7725 cy. @
Full Bench 103+65 - 109+45 3336 cy. @
Full Bench 109+45-114+05 & 115+10 - 116+05 3337 cy. @
Fill 114+05 - 115+10 & 116+05 - 116+90 2442 cy. @

\$4.79 per c.y. = \$1,916.00
\$4.79 per c.y. = \$958.00
\$4.79 per c.y. = \$37,002.75
\$4.10 per c.y. = \$13,677.60
\$3.32 per c.y. = \$11,078.84
\$2.80 per c.y. = \$6,837.60

TOTAL ENDHAUL

\$71,470.79

CULVERTS - MATERIALS & INSTALLATION

Culverts
30 LF of 18" \$510.00
\$510.00
Half Rounds
0 LF of 21" \$0.00
\$0.00
Culvert Stakes & Markers
2 stakes \$16.00
3 markers \$24.00
\$40.00

44 LF of 24" \$1,056.00
\$1,056.00
10 LF of 30" \$226.20
\$226.20

TOTAL CULVERTS

\$1,832.20

ROCK

79+40 to 116+90 1,986 cy. of Jaw Run @
Spot Rock 400 cy. of Jaw Run @
Energy Dissipator 10 cy. of Riprap @

\$15.09 per c.y. = \$29,968.74
\$14.52 per c.y. = \$5,808.00
\$8.30 per c.y. = \$83.00

TOTAL ROCK

\$35,859.74

SPECIAL PROJECTS

Construct ditchouts - 1.00 @ \$60.00 each \$60.00
Construct Landing 1 landing @ \$285.00 per landing \$285.00
Grade and shape road - 37.90 stations @ \$15.50 per station \$587.45
Roll subgrade w/ vibratory roller prior to rocking - 37.90 stations @ \$13.20 per station \$500.28
Grass seed and fertilize - 3.23 acres @ \$220.00 per acre \$710.60
Mulching - 2.684 acres @ \$600.00 per acre \$1,610.40

TOTAL SPECIAL PROJECTS

\$3,753.73

GRAND TOTAL

\$116,756.46

SUMMARY OF CONSTRUCTION COST

Sale:	<u>MOOT AGAIN</u>				Road: <u>C to D</u>
Construction -	<u>0+00</u> stations <u>0.00</u> miles				Improvement - <u>32+80</u> stations <u>0.62</u> miles
CLEARING AND GRUBBING - Scattering		1.050	acres @	\$980.00 per acre =	<u>\$1,029.00</u>
				TOTAL CLEARING AND GRUBBING	\$1,029.00
EXCAVATION - Road Earthwork		19.40	sta. @	\$130.00 per sta. =	<u>\$2,522.00</u>
				TOTAL EXCAVATION	\$2,522.00
ENDHAUL - Pullback Widening	10+90 to 11+30 1+91 - 8+60 & 11+15 - 18+00	142 2218	cy. @ cy. @	\$2.53 per c.y. = \$2.53 per c.y. =	\$359.26 <u>\$5,611.54</u>
				TOTAL ENDHAUL	\$5,970.80
CULVERTS - MATERIALS & INSTALLATION					
	<u>Culverts</u>	30	LF of 18"	<u>\$510.00</u>	
				\$1,170.00	
	<u>Half Rounds</u>	10	LF of 21"	\$177.80	
				\$177.80	
	<u>Culvert Markers</u>	3	markers	<u>\$24.00</u>	
				\$24.00	
				TOTAL CULVERTS	\$3,504.20
ROCK 0+00 to Energy Dissipators	32+80	1,765 15	cy. of cy. of	Jaw-Run Riprap	@ @
				\$15.77 per c.y. =	\$27,834.05
				\$9.10 per c.y. =	<u>\$136.50</u>
				TOTAL ROCK	\$27,970.55
SPECIAL PROJECTS					
Construct waste areas -		3.00	hours @	\$130.00 per hour	\$390.00
Construct ditchouts -		1.00	@	\$60.00 each	\$60.00
Construct Landing		1	landing @	\$285.00 per landing	\$285.00
Grade and shape road -		32.80	stations @	\$15.50 per station	\$508.40
Roll subgrade w/ vibratory roller prior to rocking -		32.80	stations @	\$13.20 per station	\$432.96
Grass seed and fertilize -		0.75	acres @	\$220.00 per acre	\$165.00
Mulching -		0.753	acres @	\$600.00 per acre	\$451.80
				TOTAL SPECIAL PROJECTS	\$2,293.16
GRAND TOTAL					\$43,289.71

SUMMARY OF CONSTRUCTION COST

Sale:	MOOT AGAIN				Road:	E to F			
Construction -	0+00		stations		Improvement -	14+00		stations	
	0.00		miles			0.27		miles	
CLEARING AND GRUBBING - Scattering				0.190 acres @	\$980.00 per acre =			\$186.20	
						TOTAL CLEARING AND GRUBBING			\$186.20
EXCAVATION - Road Earthwork				11.95 sta. @	\$80.00 per sta. =			\$956.00	
						TOTAL EXCAVATION			\$956.00
ENDHAUL - Widening	7+05	to	9+10	262 cy. @	\$2.28 per c.y.=			\$597.36	
						TOTAL ENDHAUL			\$597.36
ROCK 0+00 to	14+00		795 cy. of	Jaw-Run	@	\$14.09 per c.y.=		\$11,201.55	
						TOTAL ROCK			\$11,201.55
SPECIAL PROJECTS									
Construct waste areas -				1.00 hours @	\$130.00 per hour			\$130.00	
Construct Landing -				1 @	\$285.00 each			\$285.00	
Grade and shape road -				14.00 stations @	\$15.50 per station			\$217.00	
Roll subgrade w/ vibratory roller prior to rocking -				14.00 stations @	\$13.20 per station			\$184.80	
Grass seed and fertilize -				0.32 acres @	\$220.00 per acre			\$70.40	
						TOTAL SPECIAL PROJECTS			\$887.20
GRAND TOTAL								\$13,828.31	

SUMMARY OF CONSTRUCTION COST

Sale:	<u>MOOT AGAIN</u>					Road:	<u>G to H</u>
Construction -	<u>10+00</u> stations <u>0.19</u> miles					Improvement -	<u>0+00</u> stations <u>0.00</u> miles
CLEARING AND GRUBBING -							
Scattering		0.920	acres @	\$980.00	per acre =		<u>\$901.60</u>
						TOTAL CLEARING AND GRUBBING	\$901.60
EXCAVATION -							
Road Earthwork		10.00	sta. @	\$100.00	per sta. =		<u>\$1,000.00</u>
						TOTAL EXCAVATION	\$1,000.00
ROCK							
0+00 to 10+00		599	cy. of	Jaw-Run	@	\$13.97 per c.y. =	<u>\$8,368.03</u>
						TOTAL ROCK	\$8,368.03
SPECIAL PROJECTS							
Construct Landing		1	Landing @	\$285.00	per landing	\$285.00	
Grade and shape road -		10.00	stations @	\$15.50	per station	\$155.00	
Roll subgrade w/ vibratory roller prior to rocking -		10.00	stations @	\$13.20	per station	\$132.00	
Grass seed and fertilize -		0.64	acres @	\$220.00	per acre	\$140.80	
						TOTAL SPECIAL PROJECTS	\$712.80
GRAND TOTAL							\$10,982.43

SUMMARY OF CONSTRUCTION COST

Sale:	<u>MOOT AGAIN</u>		Road: <u>I to J</u>
Reconstruction -	<u>3+65</u> stations <u>0.07</u> miles		Improvement - <u>15+00</u> stations <u>0.28</u> miles
CLEARING AND GRUBBING -			
Scattering		0.470 acres @	\$980.00 per acre = <u>\$460.60</u>
			TOTAL CLEARING AND GRUBBING
			\$460.60
EXCAVATION -			
Road Earthwork		14.90 sta. @	\$100.00 per sta. = <u>\$1,490.00</u>
			TOTAL EXCAVATION
			\$1,490.00
ENDHAUL -			
Remove Waste in Road	0+00	to 2+00	600 cy. @ \$2.56 per c.y. = \$1,536.00
Use Remaining material as			
Subgrade Fill	13+25	to 15+00	1892 cy. @ \$2.48 per c.y. = <u>\$4,692.16</u>
			TOTAL ENDHAUL
			\$6,228.16
ROCK			
0+00 to	18+65	1,039 cy. of	Jaw-Run @ \$12.52 per c.y. = <u>\$13,008.28</u>
			TOTAL ROCK
			\$13,008.28
SPECIAL PROJECTS			
Construct Landing		1.00 Landing @	\$285.00 per Landing = \$285.00
Grade and shape road -		18.65 stations @	\$15.50 per station = \$289.08
Roll subgrade w/ vibratory roller prior to rocking -		18.65 stations @	\$13.20 per station = \$246.18
Grass seed and fertilize -		0.58 acres @	\$220.00 per acre = \$127.60
			TOTAL SPECIAL PROJECTS
			\$947.86
GRAND TOTAL			\$22,134.90

SUMMARY OF CONSTRUCTION COST

Sale:	<u>MOOT AGAIN</u>	Road:	<u>K to L</u>
Construction -	<u>0+00</u> stations <u>0.00</u> miles	Improvement -	<u>24+80</u> stations <u>0.47</u> miles
CLEARING AND GRUBBING - Scattering	1.000 acres @	\$980.00 per acre =	<u>\$980.00</u>
		TOTAL CLEARING AND GRUBBING	\$980.00
EXCAVATION - Road Earthwork	24.80 sta. @	\$100.00 per sta. =	<u>\$2,480.00</u>
		TOTAL EXCAVATION	\$2,480.00
CULVERTS - MATERIALS & INSTALLATION			
<u>Culverts</u>			
0 LF of 18"	\$0.00	34 LF of 24"	\$816.00
34 LF of 30"	<u>\$1,122.00</u>	0 LF of 36"	<u>\$0.00</u>
	\$1,122.00		\$816.00
<u>Haqf Rounds</u>			
0 LF of 21"	\$0.00	0 LF of 30"	\$0.00
10 LF of 36"	<u>\$169.00</u>	0 LF of 42"	<u>\$0.00</u>
	\$169.00		\$0.00
<u>Culvert Stakes & Markers</u>			
2 stakes	\$16.00		
2 markers	<u>\$16.00</u>		
	\$32.00		
		TOTAL CULVERTS	\$2,139.00
ROCK			
0+00 to 24+80	1,356 cy. of	Jaw-Run	@ \$16.95 per c.y. = \$22,984.20
Energy Dissipator	5 cy. of	Riprap	@ \$10.52 per c.y. = \$52.60
			<u>\$23,036.80</u>
		TOTAL ROCK	\$23,036.80
SPECIAL PROJECTS			
Construct ditches -	1.00 @	\$60.00 each	\$60.00
Construct Landing	1 Landing @	\$285.00 per Landing	\$285.00
Grade and shape road -	24.80 stations @	\$15.50 per station	\$384.40
Roll subgrade w/ vibratory roller prior to rocking -	24.80 stations @	\$13.20 per station	\$327.36
Remove culverts from state lands	1.00 @	\$152.90 total	\$152.90
Grass seed and fertilize -	0.57 acres @	\$220.00 per acre	\$125.40
Mulching -	0.569 acres @	\$600.00 per acre	<u>\$341.40</u>
		TOTAL SPECIAL PROJECTS	\$1,676.46
		GRAND TOTAL	\$30,312.26

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Pit:	Crushing Pit	Location:	Sec.1 , T2N, R9W, W.M.
Sale:	MOOT AGAIN	Road:	7970 c.y.
Swell:	1.40	Stockpile:	c.y.
Shrinkage	1.16	Total Truck Loads:	7970 c.y.
Drill Pct.:	50%	In Place Total:	5693 c.y.

Pit Development & Cleanup: Includes access road development, clearing and grubbing of waste area and endhauling, spreading and compaction of overburden \$4,000.00

Drill & Shoot:	\$2.50	/cu.yd.	x	2847	cu.yds.	=	\$7,117.50
Rip Rock	\$1.90	/cu.yd.	x	2846	cu.yds.	=	\$5,407.40
Push Rock:	\$0.60	/cu.yd.	x	7970	cu.yds.	=	\$4,782.00
Load Crusher:	\$0.60	/cu.yd.	x	7970	cu.yds.	=	\$4,782.00
Crush Rock	\$2.35	/cu.yd.	x	7970	cu.yds.	=	\$18,729.50
Load Dump Truck:	\$0.70	/cu.yd.	x	7970	cu.yds.	=	\$5,579.00
Load & Screen Rock	\$1.35	/cu.yd.	x	7970	cu.yds.	=	\$10,759.50
End Haul Screened Material	\$2.00	/cu.yd.	x	1534	cu.yds.	=	\$3,068.00

Subtotal \$64,224.90

Move In/Set-up Jaw							\$1,799.00
Move In and set up Drill and Compressor	1		@	\$288.65		=	\$288.65
Move in D-8	1		@	\$449.35		=	\$449.35
Move in Loader	1		@	\$338.00		=	\$338.00
Move in Excavator	1		@	\$490.89		=	\$490.89
Move in Trucks	2		@	\$87.94		=	\$175.88
Move in Water Truck	1		@	\$103.37		=	\$103.37
Move in Screening Plant	1		@	\$395.00		=	\$395.00

Subtotal \$4,040.14

TOTAL PRODUCTION COSTS \$68,265.04

Base Cost= \$8.57 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	4.07	2.45	8.57	15.09	1986	29,968.74
A to B Spot Rock	3.50	2.45	8.57	14.52	400	5,808.00
A to B Energy Dissipator	4.90	2.80	0.60	8.30	10	83.00
C to D	4.75	2.45	8.57	15.77	1765	27,834.05
C to D Energy Dissipators	5.70	2.80	0.60	9.10	15	136.50
E to F	3.07	2.45	8.57	14.09	795	11,201.55
G to H	2.95	2.45	8.57	13.97	599	8,368.03
I to J	1.50	2.45	8.57	12.52	1039	13,008.28
K to L	5.93	2.45	8.57	16.95	1356	22,984.20
K to L Energy Dissipator	7.12	2.80	0.60	10.52	5	52.60
				Total C.Y.	7970	Sub Total 119,444.95

TOTAL ROCKING COSTS 119,444.95

Move-In Calculations

Sale: **MOOT AGAIN**

LOWBOY HAUL (Round Trip)		
DIST. (mi)	ROADWAY	AVE SPEED (mph)
27.0	Pavement	30
2.5	Main Lines	7
2.0	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
1	Graders	\$342.45		\$3.65	0.00	6.00	6	\$21.90	\$364.35
1	Rollers (smooth/grid)	\$288.65		\$5.00	0.00	6.00	6	\$30.00	\$318.65
1	Excavators (Large)	\$532.29	2	\$44.80	0.00	7.00	7	\$313.60	\$845.89
1	Tired Backhoes/Skidders	\$288.65		\$3.00	0.00	2.00	2	\$6.00	\$294.65
1	Tractor (D8)	\$490.75	2	\$15.10	0.00	5.00	5	\$75.50	\$566.25
3	Dump Truck (10 cy +)	\$324.00		\$2.85	0.00	0.00	2	\$17.10	\$341.10
1	Water Truck (1500 Gal)	\$87.94		\$2.85	0.00	6.00	6	\$17.10	\$105.04
TOTAL MOVE-IN COSTS:								\$2,835.93	



OREGON DEPARTMENT OF FORESTRY CRUISE REPORT *Moot Again*

1. **Type of Sale**

Modified clearcut; Partial Cut: Conifer and hardwood – recovery.

2. **Legal Description**

Portions of Sections 2, 3, 4, 10 and 11, T2N, R9W, W.M. Tillamook County, Oregon

3. **Sale Acreage**

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

ACRES

		<u>Gross</u>	<u>Net</u>
Area 1	(Partial Cut)	95	82
Area 2	(Modified Clearcut)	36	34
Area 3	(Partial Cut)	40	32
Area 4	(Partial Cut)	107	68
Area 5	(Modified Clearcut)	57	55
Area 6	(Modified Clearcut)	104	100
Area 7	(Modified Clearcut)	148	89
Area 8	(Partial Cut)	22	20
Area 9	(Modified Clearcut)	24	19
Total		633	499

Gross Acres

Area within the Timber Sale Boundary signs

Net acres

Used for calculating the advertised volume.

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

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

4. **Cruising Procedures**

A. Cruise Method

A total of 215 variable radius plots were taken. In Areas 2,5,6, and 7 a combination of count and measure plots were taken. All conifers 8 inches and greater and all hardwoods 10 inches DBH and greater were recorded on all plots. Species were recorded on all trees and graded and measured for merchantable height, diameter and form factor.

Area	Grid Pattern	# Plots
1	300 x 300	36
2	300 x 130	42
3*		
4	280 x 280	37
5, 6, 7	500 x 250	81
8	250 x 250	8
9	500 x 200	9

* Area 3 was created during the silvicultural prescription process, and cruise elements from Areas 1 and 2 were used to determine the volume.

B. Plot size

A BAF of 54.45 was used for all trees in Areas 1 and 4. A BAF of 40 was used for all trees in Areas 2 and 8. A BAF of 33.78 was used for all trees in Area 9. A basal area factor of 40 was used for conifers and 20 for hardwoods in Areas 5, 6 and 7. The point of observation was at 4.5 feet.

C. Grading System

All trees were graded according to the Columbia River Log Scaling and Grading Rules. Tree heights were recorded to a six inch top outside bark for Douglas-fir, hemlock, Sitka spruce and cedar; seven 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 were to the nearest whole 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 included in the sale volume.

5. Computation Procedure

Plot data was entered into the SuperAce program for computation of basal area, stand tables, board foot volumes for each species. This data was then entered into the Volume Summary Worksheet to compute the net sale volumes.

Statistics for the cruise were 71.8 for the coefficient of variation and 4.7 for the standard error based on net board feet.

6. Hidden Defect and Breakage

Hidden defect and breakage was 5% for conifers and 10% for hardwoods on all of the areas.

7. Timber Description

Areas 1, 2, 3, 4, 5, 6 and 7 were naturally regenerated about 50-60 years ago and developed into mixed stands and have had no stand management. Area 8 is a 35 year old hemlock plantation and area 9 is a 35 year old Douglas-fir plantation.

8. Cruiser Names/Dates

Luttrell, Yau, Ferguson, Brown, Wells/ August-September 2007

9. Revenue Distribution

FDF: 100%

Tax Code: 56-1 = 100%

Deed Numbers: 15 and 194

10. Attachments

Log Stock table composite for entire sale

Stand Table (partial cut)

Volume Summaries

Logging Plan

11. Stand and Log Stock Tables Species Key

DL – Douglas-fir leave

DF – Douglas-fir take

RL – Red alder leave

RA – Red alder take

RC – Western red cedar reserved

SL – Sitka spruce leave

SS – Sitka spruce take

WL – Western hemlock leave

WH – Western hemlock take



STEWARDSHIP IN FORESTRY

Moot Again

Volume Summary

Area 1-Partial Cut					
82 acres					
SPECIES	Gross MBF/ Acre	Net MBF/ Acre	Net MBF	Hidden D&B	Adj Net Vol MBF
Douglas-fir	0.4	0.4	33	5%	31
Hemlock	14.6	14.4	1181	5%	1122
Spruce	2.5	2.5	205	5%	195
Alder	2.7	2.7	221	10%	199
TOTAL	20.2	20.0	1640		1547

Area 2-Modified Clearcut					
34 acres					
SPECIES	Gross MBF/ Acre	Net MBF/ Acre	Net MBF	Hidden D&B	Adj Net Vol MBF
Douglas-fir	5.5	5.5	187	5%	178
Hemlock	7.2	7.2	245	5%	233
Spruce	1.9	1.9	65	5%	62
Alder	7.9	7.8	265	10%	239
TOTAL	22.5	22.4	762		712

Area 3-Partial Cut					
32 acres					
SPECIES	Gross MBF/ Acre	Net MBF/ Acre	Net MBF	Hidden D&B	Adj Net Vol MBF
Douglas-fir	6.4	6.2	198	5%	188
Hemlock	6.9	6.9	221	5%	210
Spruce	2.1	2.1	67	5%	64
Alder	7.1	6.8	218	10%	196
TOTAL	22.5	22.0	704		658

Area 4-Partial Cut					
68 acres					
SPECIES	Gross MBF/ Acre	Net MBF/ Acre	Net MBF	Hidden D&B	Adj Net Vol MBF
Douglas-fir	16.3	16.2	1102	5%	1047
Hemlock	10.8	10.8	734	5%	697
Spruce	0.05	0.05	3	5%	3
Alder	3.4	3.3	224	10%	202
TOTAL	30.6	30.4	2063		1949

Areas 5, 6 and 7-Modified Clearcut					
244 acres					
SPECIES	Gross MBF/ Acre	Net MBF/ Acre	Net MBF	Hidden D&B	Adj Net Vol MBF
Douglas-fir	14.1	14.1	3440	5%	3268
Hemlock	0.6	0.6	146	5%	139
Spruce	0.003	0.003	1	5%	1
Alder	7.4	7.3	1781	10%	1603
TOTAL	22.1	22.0	5368		5011

Area 8-Partial Cut					
20 acres					
SPECIES	Gross MBF/ Acre	Net MBF/ Acre	Net MBF	Hidden D&B	Adj Net Vol MBF
Douglas-fir	3.1	3.1	62	5%	59
Hemlock	14.9	14.8	296	5%	281
TOTAL	18.0	17.9	358		340

Area 9-Modified Clearcut					
19 acres					
SPECIES	Gross MBF/Acre	Net MBF/Acre	Net MBF	Hidden D&B	Adj Net Vol MBF
Douglas-fir	18.8	18.7	355	5%	337
TOTAL	18.8	18.7	355		337

TOTAL SALE VOLUME		
SPECIES	Gross MBF	Net Vol. (MBF)
Douglas-fir	5393	5108
Hemlock	2842	2682
Spruce	341	325
Alder	2754	2439
TOTAL	11330	10554

Log Stock Table - MBF

T02N R09W S01 Ty140
THRU
T02N R09W S01 Ty200

Project: MOOTA
Acres 499.00

Page 44
Date 9/20/2007
Time 12:58:08PM

Spp	S T	So Gr rt 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	40+
DF		DO 4M	33	11		11	.2		11										
DF		DO 4M	34	20		20	.4		15	5									
DF		DO 4M	35	5		5	.1		5										
DF		DO 4M	36	27		27	.5		27										
DF		DO 4M	37	5		5	.1		5										
DF		DO 4M	39	13		13	.2		12		1								
DF		DO 4M	40	38	2.0	37	.7		5	25	7								
DF		DO 4M	41	9		9	.2		9										
DF		Totals		5,400		5,378	31.5		342	230	667	568	575	815	1641	524	16		
RA		DO 2M	20	40		40	1.5							29		11			
RA		DO 2M	29	6	9.5	5	.2							5					
RA		DO 2M	30	27	4.2	26	1.0						20				6		
RA		DO 2M	32	20		20	.8						20						
RA		DO 2M	34	5	5.9	5	.2						5						
RA		DO 2M	35	10		10	.4						10						
RA		DO 2M	40	117	4.8	112	4.2			6	12	86		7					
RA		DO 3M	12	13		13	.5						13						
RA		DO 3M	15	1		1	.0						1						
RA		DO 3M	20	39	1.5	38	1.5			6	9	15	4	5					
RA		DO 3M	23	16	5.0	15	.6			5				10					
RA		DO 3M	27	12		12	.5		5	7									
RA		DO 3M	28	8		8	.3				8								
RA		DO 3M	30	7		7	.3			7									
RA		DO 3M	32	249	1.2	245	9.3			55	133	42	16						
RA		DO 3M	34	2		2	.1		2										
RA		DO 3M	35	33		33	1.2			5	28								
RA		DO 3M	36	10		10	.4					10							
RA		DO 3M	37	6		6	.2			6									
RA		DO 3M	39	8		8	.3			8									
RA		DO 3M	40	655		650	24.7		175	220	241	14	0						

TC PLOGSTVB

Log Stock Table - MBF

T02N R09W S01 Ty140
THRU
T02N R09W S01 Ty200

Project: MOOTA
Acres 499.00

Page 5
Date 9/20/2007
Time 12:58:08PM

Spp	S T	So Gr rt 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	40+
RA		DO 4M	12	6		6	.2			6									
RA		DO 4M	13	3		3	.1			3									
RA		DO 4M	14	10		10	.4			10									
RA		DO 4M	15	10		10	.4			10									
RA		DO 4M	16	14		14	.5			9	4								
RA		DO 4M	17	3		3	.1			3									
RA		DO 4M	18	30		30	1.1			30									
RA		DO 4M	19	43		43	1.7			43									
RA		DO 4M	20	46	6.3	43	1.6			19	16	9							
RA		DO 4M	21	74	9.3	67	2.6			45	4	9	9						
RA		DO 4M	22	71		71	2.7			38	10	23							
RA		DO 4M	23	68		68	2.6			32	8	18	9						
RA		DO 4M	24	49		49	1.9			30	10	10							
RA		DO 4M	25	22		22	.8			13	9								
RA		DO 4M	26	36		36	1.4			26		9							
RA		DO 4M	27	30		30	1.1			30									
RA		DO 4M	28	6		6	.2			6									
RA		DO 4M	29	33		33	1.2			33									
RA		DO 4M	30	22		22	.8			22									
RA		DO 4M	31	56		56	2.1			56									
RA		DO 4M	32	19		19	.7			7	12								
RA		DO 4M	33	63		63	2.4			63									
RA		DO 4M	34	46		46	1.8			46									
RA		DO 4M	35	54		54	2.1			54									
RA		DO 4M	36	49	2.3	48	1.8			48									
RA		DO 4M	37	66		66	2.5			66									
RA		DO 4M	38	50	1.9	49	1.9			49									
RA		DO 4M	39	46		46	1.7			46									
RA		DO 4M	40	327	1.6	322	12.2			222	90	9							
RA		DO 4M	41	25		25	1.0			25									
RA		Totals		2,663	1.3	2,629	15.4			1275	488	518	235	74	22	11	6		

TC		Stand Table Summary														
Project MOOTA																
T02N R09W S01 T140										T02N R09W S01 T140						
Twp	Rge	Sec	Tract		Type	Acres	Plots	Sample Trees			Page:	1				
02N	09W	01	A1		140	82.00	36	203			Date:	09/20/201				
											Time:	1:34:21PM				
S Spc	T	Sample		Av	Trees/ BA/ Logs			Average Log		Net		Net	Totals			
		DBH	Trees	FF 16'	Ht Tot	Acres	Acres	Acres	Net Cu.Ft.	Net Bd.Ft.	Tons/ Acres	Cu.Ft. Acres	Bd.Ft. Acres	Tons	Cunits	MBF
WL		12	1	90	84	1.991	1.56	3.98	11.6	50.0	1.48	46	199	122	38	16
WL		15	3	88	81	3.823	4.69	7.65	18.8	78.3	4.60	144	599	377	118	49
WL		17	1	85	110	.992	1.56	1.98	25.9	115.0	1.64	51	228	135	42	19
WL		18	3	87	119	2.655	4.69	7.08	29.4	116.3	6.66	208	823	546	171	67
WL		20	4	85	122	2.867	6.26	7.88	35.9	148.2	9.06	283	1,168	743	232	96
WL		21	3	87	106	1.950	4.69	4.55	41.6	168.6	6.06	189	767	497	155	63
WL		22	6	88	129	3.554	9.38	10.66	42.0	187.8	14.34	448	2,002	1,176	368	164
WL		23	5	88	121	2.710	7.82	7.59	46.3	202.1	11.24	351	1,534	921	288	126
WL		24	5	90	118	2.489	7.82	6.97	51.8	250.7	11.56	361	1,747	948	296	143
WL		25	7	87	134	3.211	10.95	9.17	59.4	269.5	17.44	545	2,473	1,430	447	203
WL		26	1	80	134	.424	1.56	1.27	56.2	220.0	2.28	72	280	187	59	23
WL		28	6	85	121	2.194	9.38	6.22	68.4	301.2	13.61	425	1,872	1,116	349	154
WL		29	5	85	131	1.705	7.82	5.11	73.7	342.0	12.05	377	1,749	988	309	143
WL		31	3	86	134	.895	4.69	2.39	98.0	458.7	7.49	234	1,095	614	192	90
WL		32	1	82	128	.280	1.56	.56	76.1	330.0	1.37	43	185	112	35	15
WL		37	1	84	88	.209	1.56	.21	215.0	850.0	1.44	45	178	118	37	15
WL		39	1	81	145	.189	1.56	.57	117.4	633.3	2.12	66	358	174	54	29
WL		49	1	90	154	.119	1.56	.36	164.6	770.0	1.89	59	276	155	48	23
WL		51	1	85	135	.110	1.56	.33	240.1	1236.7	2.54	79	409	208	65	34
WL		62	1	85	182	.075	1.56	.30	338.2	2025.0	3.23	101	604	265	83	50
WL	Totals		59	87	116	32.443	92.26	84.83	48.7	218.6	132.10	4,129	18,547	10,833	3,386	1,521
WH		9	3	89	41	11.278	4.98	11.28	6.2	26.7	2.25	70	301	184	58	25
WH		10	2	88	32	6.090	3.32	6.09	6.6	25.0	1.30	40	152	106	33	12
WH		11	2	90	60	5.033	3.32	5.03	13.0	55.0	2.10	66	277	172	54	23
WH		12	1	88	93	2.115	1.66	4.23	14.2	55.0	1.90	60	233	156	49	19
WH		13	2	87	112	3.604	3.32	9.01	14.7	64.0	4.24	132	577	347	109	47
WH		14	4	84	98	6.214	6.64	13.98	16.6	62.2	7.45	232	870	611	190	71
WH		15	2	88	96	2.707	3.32	5.41	18.1	77.5	3.14	98	420	257	80	34
WH		16	2	86	127	2.379	3.32	5.95	24.6	108.0	4.69	146	642	384	120	53
WH		17	6	88	118	6.322	9.96	16.86	25.8	108.1	13.93	435	1,823	1,142	357	149
WH		18	2	86	127	1.880	3.32	5.64	27.6	115.0	4.97	155	648	408	127	53
WH		19	5	88	140	4.217	8.30	12.65	33.0	145.3	13.35	417	1,839	1,095	342	151
WH		20	5	87	111	3.806	8.30	9.90	35.4	141.5	11.22	351	1,401	920	288	115
WH		21	3	87	104	2.071	4.98	4.83	40.0	151.4	6.19	193	732	508	159	60
WH		22	1	93	112	.629	1.66	1.89	39.2	186.7	2.37	74	352	194	61	29
WH		23	2	86	110	1.151	3.32	2.88	48.5	204.0	4.47	140	587	366	114	48
WH		25	1	83	127	.487	1.66	1.46	52.9	223.3	2.48	77	326	203	63	27
WH		27	1	90	151	.418	1.66	1.25	74.2	336.7	2.98	93	422	244	76	35
WH		28	1	87	200	.388	1.66	1.17	91.3	526.7	3.40	106	614	279	87	50
WH		30	1	88	171	.338	1.66	1.01	93.4	526.7	3.03	95	535	249	78	44
WH		33	1	88	143	.280	1.66	.84	106.1	530.0	2.85	89	445	234	73	36
WH		35	1	87	121	.249	1.66	.75	105.1	533.3	2.51	78	398	206	64	33
WH		37	2	85	156	.445	3.32	1.56	120.0	651.4	5.98	187	1,014	490	153	83
WH		40	1	85	143	.190	1.66	.57	156.2	813.3	2.85	89	464	234	73	38
WH	Totals		51	88	89	62.291	84.70	124.23	27.6	121.3	109.64	3,426	15,070	8,990	2,810	1,236
SL		18	1	82	49	.856	1.51	.86	38.1	40.0	.85	33	34	69	27	3
SL		19	1	83	66	.768	1.51	1.54	27.1	90.0	1.08	42	138	89	34	11
SL		21	1	83	108	.629	1.51	1.26	50.5	180.0	1.65	63	226	135	52	19
SL		22	1	85	95	.573	1.51	1.15	45.9	175.0	1.37	53	201	112	43	16
SL		24	1	77	94	.481	1.51	.48	40.4	120.0	.51	19	58	41	16	5
SL		29	1	82	126	.330	1.51	.99	69.6	256.7	1.79	69	254	147	56	21

TC TSTNDSUM

Stand Table Summary

Project MOOTA

T02N R09W S01 T140

T02N R09W S01 T140

Twp Rge Sec Tract
02N 09W 01 A1

Type Acres Plots Sample Trees
140 82.00 36 203

Page: 2
Date: 09/20/201
Time: 1:34:21PM

S Spec	T	Sample		Av	Trees/ BA/ Logs			Average Log		Net		Net	Totals			
		DBH	Trees	FF 16'	Ht Tot	Acres	Acres	Acres	Net Cu.Ft.	Net Bd.Ft.	Tons/ Acres	Cu.Ft. Acres	Bd.Ft. Acres	Tons	Cunits	MBF
SL		34	1	80	107	.240	1.51	.48	129.4	470.0	1.61	62	225	132	51	18
SL		36	1	79	109	.214	1.51	.43	148.5	570.0	1.65	64	244	136	52	20
SL		41	2	79	110	.330	3.03	.49	152.9	606.7	1.97	76	300	161	62	25
SL		42	1	83	101	.157	1.51	.31	193.0	785.0	1.58	61	247	129	50	20
SL		45	1	85	154	.137	1.51	.41	211.1	1096.7	2.26	87	451	185	71	37
SL		49	1	81	177	.115	1.51	.46	202.1	1090.0	2.43	93	504	199	77	41
SL		50	1	82	92	.111	1.51	.22	257.5	870.0	1.49	57	193	122	47	16
SL		60	1	82	98	.077	1.51	.15	393.3	1550.0	1.58	61	239	129	50	20
SL		64	1	84	149	.068	1.51	.20	411.7	2140.0	2.17	84	435	178	69	36
SL		69	1	84	158	.058	1.51	.17	496.6	2703.3	2.26	87	472	185	71	39
SL	Totals		17	82	94	5.144	25.71	9.61	105.0	439.2	26.23	1,009	4,221	2,151	827	346
SS		10	1	87	55	2.773	1.51	2.77	11.6	40.0	.84	32	111	69	26	9
SS		13	1	83	71	1.641	1.51	1.64	23.8	70.0	1.01	39	115	83	32	9
SS		17	1	80	27	.960	1.51	.96	19.7	20.0	.49	19	19	40	15	2
SS		19	1	82	93	.768	1.51	1.54	37.3	120.0	1.49	57	184	122	47	15
SS		21	2	86	87	1.258	3.03	2.52	42.0	140.0	2.75	106	352	225	87	29
SS		26	1	83	131	.410	1.51	1.23	59.2	253.3	1.89	73	312	155	60	26
SS		29	1	85	120	.330	1.51	.99	69.7	306.7	1.79	69	303	147	57	25
SS		32	1	83	161	.271	1.51	.81	107.7	530.0	2.28	87	431	187	72	35
SS		39	1	86	136	.182	1.51	.55	140.1	723.3	1.99	77	396	163	63	32
SS		49	1	84	159	.115	1.51	.35	251.1	1360.0	2.26	87	471	186	71	39
SS	Totals		11	84	75	8.708	16.64	13.35	48.4	201.8	16.79	646	2,694	1,377	530	221
RA		15	1	79	65	1.356	1.66	1.36	29.9	70.0	1.11	41	95	91	33	8
RA		16	2	84	61	2.383	3.33	3.57	22.1	63.3	2.17	79	226	178	65	19
RA		17	3	80	70	3.167	4.99	6.33	22.2	71.7	3.86	141	454	317	115	37
RA		18	3	80	78	2.824	4.99	4.71	32.7	100.0	4.24	154	471	347	126	39
RA		19	1	79	74	.845	1.66	1.69	29.6	95.0	1.38	50	161	113	41	13
RA	Totals		10	81	70	10.575	16.64	17.66	26.3	79.6	12.77	464	1,406	1,047	381	115
RL		11	2	80	50	4.584	3.03	2.29	14.6	50.0	.92	33	115	75	27	9
RL		12	1	80	58	1.926	1.51	1.93	16.7	50.0	.88	32	96	72	26	8
RL		18	1	80	63	.856	1.51	.86	48.2	120.0	1.13	41	103	93	34	8
RL		20	1	80	67	.693	1.51	1.39	30.4	90.0	1.16	42	125	95	35	10
RL		22	2	80	89	1.146	3.03	1.72	59.7	186.7	2.82	103	321	232	84	26
RL		26	2	80	78	.820	3.03	1.64	56.4	197.5	2.55	93	324	209	76	27
RL		31	1	80	81	.289	1.51	.58	90.3	295.0	1.43	52	170	118	43	14
RL	Totals		10	80	61	10.314	15.13	10.40	38.1	120.6	10.91	396	1,254	894	325	103
DL		22	1	85	119	.859	2.27	2.58	36.3	133.3	2.58	94	344	211	77	28
DL		24	1	88	116	.722	2.27	2.17	42.1	183.3	2.51	91	397	206	75	33
DL	Totals		2	86	118	1.582	4.54	4.74	39.0	156.2	5.08	185	741	417	152	61
RC		11	1	71	26	2.292	1.51	2.29	7.6	20.0	.41	17	46	33	14	4
RC		12	1	69	25	1.926	1.51	1.93	8.8	20.0	.40	17	39	32	14	3
RC		21	1	84	71	.629	1.51	1.26	34.2	100.0	1.01	43	126	83	35	10
RC		29	1	80	100	.330	1.51	.66	88.6	325.0	1.37	58	214	113	48	18
RC		32	1	84	73	.271	1.51	.54	84.1	285.0	1.07	46	154	88	37	13
RC	Totals		5	73	38	5.447	7.56	6.68	27.1	86.7	4.26	181	579	349	149	47
DF		11	1	84	56	3.056	2.02	3.06	11.0	40.0	.96	34	122	78	27	10
DF		15	1	85	106	1.643	2.02	3.29	22.0	75.0	2.06	72	246	169	59	20
DF		24	1	73	72	.642	2.02	1.28	43.9	95.0	1.61	56	122	132	46	10

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TC TSTNDSUM

Stand Table Summary

Project **MOOTA**

T02N R09W S01 T140

T02N R09W S01 T140

Twp Rge Sec Tract
02N 09W 01 A1

Type Acres Plots Sample Trees
140 82.00 36 203

Page: 3
Date: 09/20/2008
Time: 1:34:21PM

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
DF	Totals	3	83	73		5.341	6.05	7.63	21.3	64.3	4.63	162	491	379	133	40
	Totals	168	85	89		141.844	269.23	279.13	38.0	161.2	322.40	10599	45,002	26,437	8,691	3,690

TC TSTNDSUM

Stand Table Summary

Project MOOTA

T02N R09W S01 T180

T02N R09W S01 T180

Twp Rge Sec Tract
02N 09W 01 A3Type Acres Plots Sample Trees
180 32.00 19 152Page: 1
Date: 09/20/200
Time: 1:34:48PM

S Spc	T	Sample		Av		Trees/ BA/ Logs			Average Log		Net		Net		Totals		
		DBH	Trees	FF 16'	Ht Tot	Acre	Acre	Acre	Net Cu.Ft.	Net Bd.Ft.	Tons/ Acre	Cu.Ft. Acre	Bd.Ft. Acre	Tons	Cunits	MBF	
WH	9	1	85	26	12.170	5.38	12.17	4.6	20.0	1.80	56	243	57	18	8		
WH	13	1	85	96	7.940	7.32	15.88	15.9	60.0	8.06	252	953	258	81	30		
WH	14	1	88	88	.031	.03	.06	18.6	75.0	.04	1	5	1	0	0		
WH	15	1	84	81	4.381	5.38	8.76	19.6	65.0	5.49	172	570	176	55	18		
WH	16	1	92	90	.031	.04	.06	24.4	105.0	.05	2	7	2	0	0		
WH	18	1	92	90	.031	.06	.06	30.1	115.0	.06	2	7	2	1	0		
WH	22	1	90	122	2.037	5.38	6.11	40.8	190.0	7.98	249	1,161	255	80	37		
WH	23	2	86	127	3.727	10.75	11.18	45.0	196.7	16.09	503	2,199	515	161	70		
WH	26	1	85	139	.031	.12	.09	60.4	273.3	.18	6	26	6	2	1		
WH	27	1	85	129	1.841	7.32	5.52	63.9	290.0	11.30	353	1,601	362	113	51		
WH	31	1	93	110	.031	.16	.06	113.4	560.0	.23	7	35	7	2	1		
WH	35	1	93	120	.031	.21	.09	105.4	563.3	.32	10	53	10	3	2		
WH	Totals	13	85	75	32.284	42.14	60.06	26.8	114.2	51.58	1,612	6,859	1,651	516	219		
RA	9	1	80	36	17.780	7.85	17.78	6.1	20.0	2.96	108	356	95	34	11		
RA	10	2	80	59	24.981	13.63	24.98	10.8	37.3	7.41	269	932	237	86	30		
RA	11	1	79	49	8.743	5.77	8.74	11.6	30.0	2.78	101	262	89	32	8		
RA	12	1	80	73	7.347	5.77	7.35	19.6	60.0	3.97	144	441	127	46	14		
RA	13	2	80	90	12.520	11.54	18.78	19.1	56.7	9.87	359	1,064	316	115	34		
RA	14	1	80	41	5.398	5.77	5.40	17.0	40.0	2.53	92	216	81	29	7		
RA	15	1	80	56	4.702	5.77	4.70	28.5	60.0	3.68	134	282	118	43	9		
RA	16	3	79	83	13.891	19.40	27.78	22.9	70.0	17.52	637	1,945	561	204	62		
RA	18	1	80	51	.031	.06	.03	39.3	60.0	.03	1	2	1	0	0		
RA	19	1	80	88	.031	.06	.06	34.0	105.0	.06	2	7	2	1	0		
RA	20	1	80	71	2.645	5.77	5.29	31.9	100.0	4.65	169	529	149	54	17		
RA	21	1	80	68	2.399	5.77	4.80	30.3	115.0	4.15	146	552	133	47	18		
RA	23	1	80	64	.031	.09	.06	35.2	120.0	.06	2	8	2	1	0		
RA	24	1	80	52	1.837	5.77	1.84	77.0	120.0	3.89	141	220	124	45	7		
RA	Totals	18	80	61	102.337	93.01	127.59	18.1	53.4	63.55	2,306	6,814	2,034	738	218		
DF	16	1	90	120	.031	.04	.09	19.9	90.0	.05	2	8	2	1	0		
DF	18	1	90	130	2.076	3.67	6.23	27.9	126.7	4.94	173	789	158	56	25		
DF	20	1	85	135	.031	.07	.09	32.4	130.0	.09	3	12	3	1	0		
DF	21	1	91	131	1.525	3.67	4.57	37.6	180.0	4.90	172	823	157	55	26		
DF	22	1	85	139	1.891	4.99	7.57	31.5	142.5	6.78	238	1,078	217	76	34		
DF	23	1	88	111	1.271	3.67	2.54	57.8	245.0	4.19	147	623	134	47	20		
DF	25	1	84	130	1.465	4.99	4.39	51.7	216.7	6.48	227	952	207	73	30		
DF	26	1	91	152	.995	3.67	3.98	48.8	250.0	5.54	194	995	177	62	32		
DF	27	1	90	150	.031	.12	.09	72.4	383.3	.19	7	36	6	2	1		
DF	30	1	84	129	1.017	4.99	3.05	73.4	303.3	6.38	224	926	204	72	30		
DF	Totals	10	88	132	10.333	29.89	32.62	42.6	191.4	39.55	1,388	6,242	1,266	444	200		
DL	22	1	85	108	1.072	2.83	2.14	50.5	180.0	2.97	108	386	95	35	12		
DL	24	1	84	149	.901	2.83	2.70	51.3	220.0	3.81	139	594	122	44	19		
DL	26	1	91	146	.767	2.83	2.30	64.3	320.0	4.07	148	737	130	47	24		
DL	28	1	84	146	.901	3.85	2.70	70.3	316.7	5.23	190	856	167	61	27		
DL	30	2	87	133	1.153	5.66	3.46	78.0	378.3	7.42	270	1,308	238	86	42		
DL	31	1	85	101	.540	2.83	1.08	100.5	410.0	2.98	108	443	95	35	14		
DL	37	1	85	135	.516	3.85	2.06	88.7	427.5	5.02	183	882	161	59	28		
DL	Totals	8	86	132	5.849	24.68	16.45	69.7	316.4	31.52	1,146	5,206	1,009	367	167		
WL	24	1	86	145	1.092	3.43	3.27	54.6	253.3	5.73	179	830	183	57	27		
WL	25	2	88	116	2.012	6.86	6.04	50.9	230.0	9.83	307	1,388	315	98	44		

TC TSTNDSUM															Stand Table Summary																																												
T02N R09W S01 T180															T02N R09W S01 T180																																												
Project MOOTA															Page: 2																																												
Twp Rge Sec Tract															Date: 09/20/200																																												
02N 09W 01 A3															Time: 1:34:48PM																																												
Type															Acres															Plots															Sample Trees														
180															32.00															19															152														
S Sp	T	DBH	Sample Trees	FF 16'	Av Ht Tot	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals																																													
									Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF																																											
WL		29	2	84	114	1.765	8.10	4.55	77.1	331.4	11.23	351	1,507	359	112	48																																											
WL		30	1	90	123	.699	3.43	2.10	77.6	390.0	5.21	163	817	167	52	26																																											
WL	Totals	6	87	122		5.567	21.81	15.95	62.7	284.7	31.99	1,000	4,542	1,024	320	145																																											
SS		9	1	55	30	.031	.01	.03	5.2	10.0	.00	0	0	0	0	0																																											
SS		12	1	84	50	3.375	2.65	3.37	16.1	40.0	1.42	54	135	45	17	4																																											
SS		13	1	90	32	.031	.03	.03	12.0	30.0	.01	0	1	0	0	0																																											
SS		14	1	84	63	2.479	2.65	2.48	26.7	70.0	1.72	66	174	55	21	6																																											
SS		15	2	84	68	5.100	6.26	7.26	23.4	70.0	4.42	170	508	141	54	16																																											
SS		16	2	85	69	3.797	5.30	5.69	24.3	73.3	3.83	138	418	123	44	13																																											
SS		23	1	84	164	1.250	3.61	2.50	72.0	340.0	4.69	180	850	150	58	27																																											
SS	Totals	9	84	71		16.064	20.51	21.37	28.5	97.6	16.09	610	2,086	515	195	67																																											
RL		17	1	79	66	3.673	5.79	3.67	42.3	90.0	4.28	155	331	137	50	11																																											
RL		20	1	79	56	2.654	5.79	2.65	55.1	90.0	4.02	146	239	129	47	8																																											
RL		24	1	79	61	1.843	5.79	3.69	26.0	125.0	4.21	96	461	135	31	15																																											
RL		30	1	80	68	1.179	5.79	1.18	23.0	30.0	.95	27	35	30	9	1																																											
RL	Totals	4	79	62		9.349	23.16	11.19	37.9	95.2	13.45	425	1,065	430	136	34																																											
RC		16	1	81	50	.031	.04	.03	22.2	30.0	.02	1	1	1	0	0																																											
RC		19	1	81	50	.031	.06	.03	30.5	30.0	.02	1	1	1	0	0																																											
RC		27	1	69	30	2.647	10.53	2.65	56.6	60.0	3.52	150	159	113	48	5																																											
RC		28	1	81	50	.031	.13	.03	65.9	50.0	.05	2	2	2	1	0																																											
RC	Totals	4	69	31		2.741	10.77	2.74	56.0	59.2	3.61	154	162	115	49	5																																											
OC		14	1	54	44	3.200	3.42																																																				
OC		15	2	84	65	5.575	6.84																																																				
OC		18	1	84	44	1.936	3.42																																																				
OC		36	1	84	44	.484	3.42																																																				
OC		43	1	85	44	.339	3.42																																																				
OC		45	1	85	44	.310	3.42																																																				
OC		55	1	84	44	.207	3.42																																																				
OC	Totals	8	76	54		12.052	27.37																																																				
Totals		80	81	71		196.575	293.34	287.98	30.0	114.5	251.35	8639	32,977	8,043	2,765	1,055																																											

TC TSTNDSUM														Stand Table Summary													
Project														MOOTA													
T02N R09W S01 T140														T02N R09W S01 T140													
Twp Rge Sec Tract				Type				Acres		Plots		Sample Trees		Page: 1													
02N 09W 01 A4				140				68.00		37		244		Date: 09/20/2001													
														Time: 1:35:12PM													
S Spec	T	Sample		Av	Trees/ BA/ Logs			Average Log		Net		Net	Totals														
		DBH	Trees	FF 16'	Ht Tot	Acres	Acres	Acres	Net Cu.Ft.	Net Bd.Ft.	Tons/ Acres	Cu.Ft. Acres	Bd.Ft. Acres	Tons	Cunits	MBF											
DL		20	1	86	116	.687	1.50	2.06	28.6	116.7	1.62	59	240	110	40	16											
DL		21	1	87	119	.623	1.50	1.87	33.4	143.3	1.72	62	268	117	42	18											
DL		22	1	83	154	.568	1.50	1.70	44.1	200.0	2.06	75	341	140	51	23											
DL		23	1	88	167	.519	1.50	2.08	39.0	187.5	2.23	81	389	152	55	26											
DL		24	4	86	133	1.908	5.99	6.20	44.1	190.0	7.52	273	1,178	511	186	80											
DL		25	3	86	161	1.319	4.50	4.84	48.4	230.0	6.44	234	1,112	438	159	76											
DL		26	3	86	139	1.219	4.50	3.66	58.5	261.1	5.88	214	955	400	145	65											
DL		27	6	86	144	2.261	8.99	7.16	61.2	283.2	12.06	438	2,027	820	298	138											
DL		28	6	85	134	2.102	8.99	6.31	65.6	303.3	11.38	414	1,913	774	281	130											
DL		29	1	85	123	.327	1.50	.98	65.3	276.7	1.76	64	271	120	44	18											
DL		30	4	85	162	1.221	5.99	4.58	70.3	350.7	8.86	322	1,606	602	219	109											
DL		31	3	87	140	.858	4.50	2.57	84.7	422.2	5.99	218	1,086	408	148	74											
DL		32	2	86	161	.537	3.00	2.15	74.9	386.2	4.42	161	829	301	109	56											
DL		34	5	86	145	1.188	7.49	3.80	95.5	484.4	9.98	363	1,842	679	247	125											
DL		35	4	85	154	.897	5.99	2.92	106.6	513.1	8.55	311	1,496	581	211	102											
DL		36	5	87	148	1.060	7.49	3.60	106.3	574.1	10.54	383	2,069	716	261	141											
DL		37	1	87	113	.201	1.50	.40	149.6	720.0	1.65	60	289	112	41	20											
DL		38	3	86	140	.571	4.50	1.90	117.1	646.0	6.13	223	1,229	417	152	84											
DL		42	1	89	181	.156	1.50	.62	151.0	915.0	2.59	94	570	176	64	39											
DL	Totals	55	86	143		18.220	82.41	59.40	68.2	331.9	111.36	4,050	19,711	7,573	2,754	1,340											
DF		11	3	87	86	6.690	4.41	11.15	11.3	48.0	3.60	126	535	245	86	36											
DF		12	1	82	47	1.874	1.47	1.87	13.1	40.0	.70	25	75	48	17	5											
DF		13	2	83	101	3.193	2.94	6.39	14.7	52.5	2.67	94	335	182	64	23											
DF		14	2	86	124	2.753	2.94	5.51	20.5	85.0	3.21	113	468	218	77	32											
DF		15	2	86	120	2.398	2.94	6.00	19.1	80.0	3.27	115	480	222	78	33											
DF		18	8	85	142	6.662	11.77	19.99	27.4	114.2	15.61	548	2,282	1,062	373	155											
DF		20	3	86	115	2.024	4.41	5.40	32.8	128.7	5.05	177	695	343	120	47											
DF		21	4	86	138	2.447	5.89	7.34	37.3	162.5	7.81	274	1,193	531	186	81											
DF		22	10	86	121	5.575	14.72	16.17	38.3	160.3	17.65	619	2,592	1,200	421	176											
DF		23	3	86	130	1.530	4.41	4.59	44.3	194.4	5.79	203	893	394	138	61											
DF		24	5	86	139	2.342	7.36	7.49	46.4	208.7	9.92	348	1,565	674	237	106											
DF		25	4	85	136	1.727	5.89	5.61	48.2	213.8	7.70	270	1,200	524	184	82											
DF		26	4	85	153	1.597	5.89	5.19	58.5	271.5	8.66	304	1,409	589	207	96											
DF		27	1	87	131	.370	1.47	1.11	61.6	293.3	1.95	68	326	133	47	22											
DF		30	2	89	167	.600	2.94	2.10	80.6	430.0	4.82	169	902	328	115	61											
DF		31	2	86	157	.562	2.94	1.97	80.1	414.3	4.49	157	814	305	107	55											
DF		34	1	84	173	.233	1.47	.93	89.5	475.0	2.38	84	443	162	57	30											
DF	Totals	57	86	119		42.576	83.88	108.80	34.0	149.0	105.29	3,694	16,207	7,159	2,512	1,102											
WH		9	2	87	55	6.662	2.94	6.66	7.3	35.0	1.60	48	233	109	33	16											
WH		10	1	85	37	2.698	1.47	2.70	7.2	30.0	.62	19	81	42	13	6											
WH		12	3	87	102	5.621	4.41	11.24	14.0	56.7	5.04	157	637	342	107	43											
WH		13	4	85	56	6.386	5.89	7.98	16.9	48.0	4.31	135	383	293	92	26											
WH		14	2	86	118	2.753	2.94	6.88	18.0	78.0	3.98	124	537	270	84	37											
WH		15	4	85	83	4.797	5.89	9.59	18.8	62.5	5.79	180	600	394	123	41											
WH		16	7	86	119	7.378	10.30	18.97	24.2	101.7	14.70	460	1,929	1,000	313	131											
WH		17	3	86	92	2.801	4.41	5.60	28.2	98.3	5.05	158	551	343	107	37											
WH		18	2	87	134	1.666	2.94	5.00	28.6	121.7	4.58	143	608	311	97	41											
WH		19	4	85	122	2.990	5.89	8.97	28.9	118.3	8.30	259	1,061	565	176	72											
WH		20	1	85	121	.675	1.47	2.02	33.3	143.3	2.16	67	290	147	46	20											
WH		21	1	89	152	.612	1.47	1.84	46.4	220.0	2.73	85	404	185	58	27											
WH		22	1	87	105	.557	1.47	1.67	35.2	153.3	1.89	59	256	128	40	17											

Stand Table Summary																
Project MOOTA																
T02N R09W S01 T140										T02N R09W S01 T140						
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page:								
02N	09W	01	A4	140	68.00	37	244	2	Date:	09/20/200						
									Time:	1:35:12PM						
S Spc	T	Sample		Av	Trees/ BA/ Logs			Average Log		Net		Net	Totals			
		DBH	Trees	FF 16'	Ht Tot	Acres	Acres	Acres	Net Cu.Ft.	Net Bd.Ft.	Tons/ Acres	Cu.Ft. Acres	Bd.Ft. Acres	Tons	Cunits	MBF
WH		23	1	85	121	.510	1.47	1.53	43.8	190.0	2.14	67	291	146	46	20
WH		24	2	87	140	.937	2.94	2.81	52.2	236.7	4.69	147	665	319	100	45
WH		25	2	86	115	.863	2.94	2.16	59.6	254.0	4.11	129	548	280	87	37
WH		26	1	85	115	.399	1.47	1.20	53.4	233.3	2.05	64	279	139	43	19
WH		27	2	86	121	.740	2.94	1.85	69.9	298.0	4.14	129	551	281	88	38
WH		28	1	79	163	.344	1.47	1.03	78.4	336.7	2.59	81	348	176	55	24
WH		32	1	89	160	.263	1.47	1.05	88.5	497.5	2.98	93	524	203	63	36
WH	Totals		45	86	93	49.653	66.22	100.77	25.9	107.0	83.45	2,606	10,777	5,674	1,772	733
WL		15	1	86	139	1.245	1.53	3.74	20.2	90.0	2.41	75	336	164	51	23
WL		18	1	87	126	.865	1.53	2.59	29.2	126.7	2.43	76	329	165	52	22
WL		19	1	84	64	.776	1.53	1.55	27.2	80.0	1.35	42	124	92	29	8
WL		22	2	86	137	1.158	3.06	3.47	42.7	191.7	4.74	148	666	323	101	45
WL		23	3	85	105	1.589	4.58	4.24	42.2	171.3	5.73	179	726	389	122	49
WL		25	3	86	123	1.345	4.58	4.03	53.3	232.2	6.88	215	937	468	146	64
WL		26	2	87	138	.829	3.06	2.90	53.8	268.6	5.00	156	779	340	106	53
WL		27	3	86	115	1.153	4.58	3.07	63.4	281.2	6.24	195	865	424	133	59
WL		28	3	84	132	1.072	4.58	3.22	68.9	308.9	7.09	222	994	482	151	68
WL		29	2	86	110	.666	3.06	2.00	62.7	275.0	4.01	125	550	273	85	37
WL		30	2	88	160	.623	3.06	2.18	82.4	435.7	5.75	180	950	391	122	65
WL		32	1	92	162	.274	1.53	1.09	89.8	532.5	3.14	98	583	214	67	40
WL		35	1	83	156	.229	1.53	.69	119.6	563.3	2.63	82	387	179	56	26
WL		36	1	84	170	.216	1.53	.86	107.0	585.0	2.96	93	506	201	63	34
WL	Totals		26	86	124	12.040	39.73	35.64	52.9	244.9	60.36	1,886	8,730	4,105	1,282	594
RA		11	2	80	56	4.817	3.18	7.22	9.0	30.0	1.79	65	217	121	44	15
RA		12	2	79	68	4.047	3.18	6.07	12.9	43.3	2.16	78	263	147	53	18
RA		13	2	79	64	3.449	3.18	5.17	14.3	43.3	2.03	74	224	138	50	15
RA		14	5	80	76	7.434	7.95	13.38	17.9	48.9	6.57	239	654	447	163	44
RA		15	2	80	60	2.590	3.18	3.89	19.3	40.0	2.08	75	155	141	51	11
RA		16	1	80	77	1.138	1.59	2.28	22.7	70.0	1.42	52	159	97	35	11
RA		17	6	80	79	6.050	9.54	11.09	26.4	79.1	8.05	293	877	547	199	60
RA		18	1	80	80	.899	1.59	1.80	29.0	90.0	1.44	52	162	98	36	11
RA		21	4	79	80	2.643	6.36	4.63	44.8	134.3	5.70	207	621	388	141	42
RA	Totals		25	80	70	33.067	39.73	55.53	20.5	60.0	31.23	1,136	3,333	2,124	772	227
RL		22	4	79	74	2.230	5.89	5.02	34.8	105.6	4.80	175	530	327	119	36
RL		24	1	79	123	.468	1.47	1.41	49.1	190.0	1.90	69	267	129	47	18
RL		25	1	80	101	.432	1.47	.86	67.5	235.0	1.60	58	203	109	40	14
RL	Totals		6	79	85	3.130	8.83	7.29	41.4	137.2	8.30	302	1,000	565	205	68
SL		36	1	80	93	.208	1.47	.42	134.9	485.0	1.46	56	202	99	38	14
SL	Totals		1	80	93	.208	1.47	.42	134.9	485.0	1.46	56	202	99	38	14
RC		26	1	80	77	.399	1.47	.80	57.5	160.0	1.08	46	128	73	31	9
RC	Totals		1	80	77	.399	1.47	.80	57.5	160.0	1.08	46	128	73	31	9
SS		11	1	80	28	2.230	1.47	2.23	8.4	20.0	.48	19	45	33	13	3
SS	Totals		1	80	28	2.230	1.47	2.23	8.4	20.0	0.48	19	45	33	13	3
BM		15	2	80	65	2.398	2.94									
BM		19	1	79	35	.747	1.47	.75	31.3	50.0	.62	23	37	42	16	3
BM	Totals		3	80	58	3.146	4.41	.75	31.3	50.0	0.62	23	37	42	16	3

TC TSTNDSUM

Stand Table Summary

Project **MOOTA**

T02N R09W S01 T140

T02N R09W S01 T140

Twp Rge Sec Tract
02N 09W 01 A4

Type Acres Plots Sample Trees
140 68.00 37 244

Page: 3
Date: 09/20/201
Time: 1:35:12PM

S Sp	T	DBH	Sample Trees	FF 16'	Av Ht Tot	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals		
									Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF
Totals			220	84	101	164.669	329.64	371.61	37.2	161.9	403.63	13818	60,169	27,447	9,396	4,091

Stand Table Summary

Project MOOTA

T02N R09W S01 T120

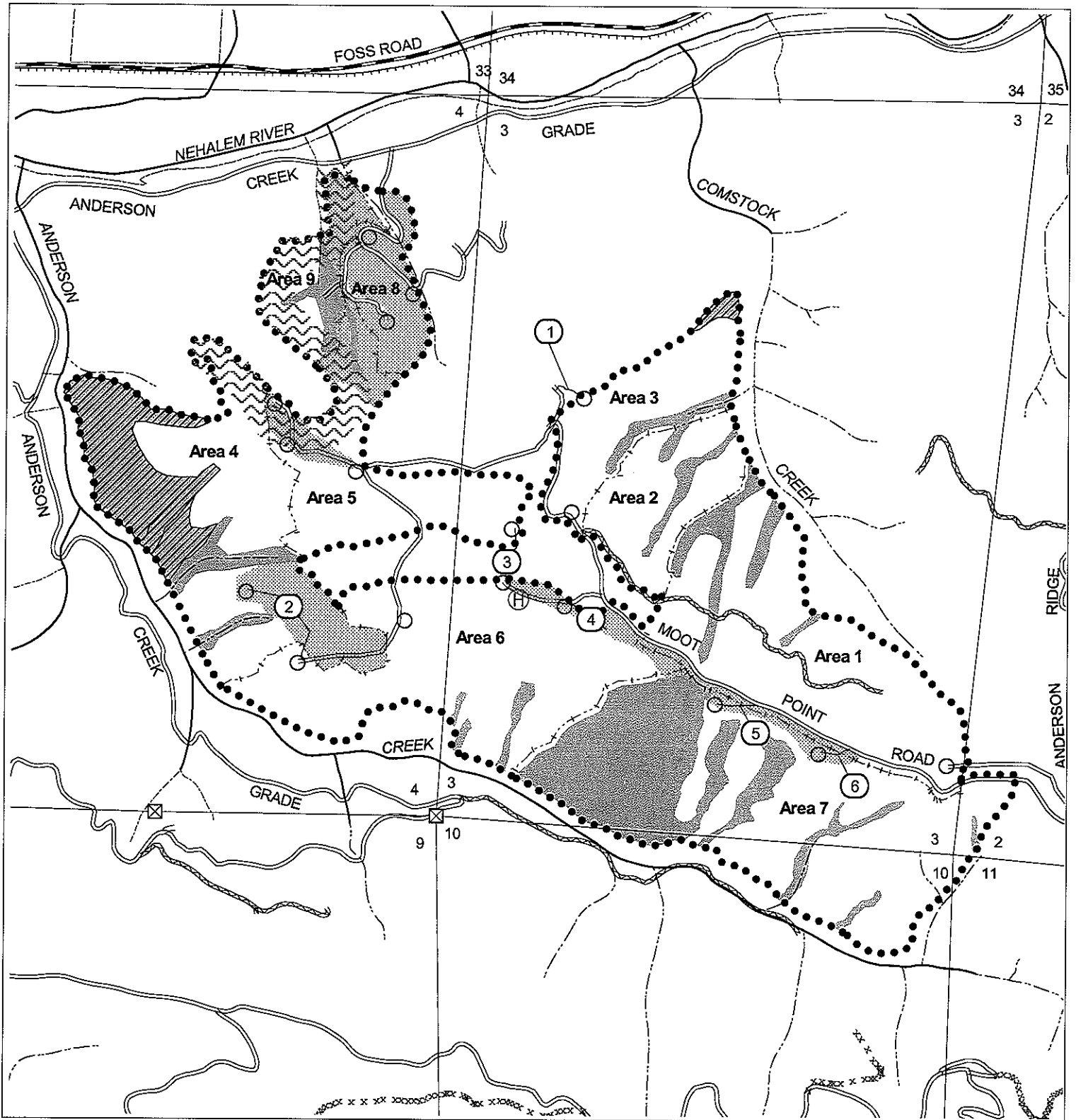
T02N R09W S01 T120

Twp Rge Sec Tract
02N 09W 01 A8

Type Acres Plots Sample Trees
120 20.00 8 55

Page: 1
Date: 09/20/201
Time: 1:35:41PM

S Spec	T	Sample DBH	FF Trees	Av Ht 16'	Av 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		8	1	90	49	14.324	5.00	14.32	5.0	30.0	2.31	72	430	46	14	9
WH		10	3	89	87	27.502	15.00	55.00	7.6	38.3	13.36	418	2,108	267	84	42
WH		11	1	88	53	7.576	5.00	7.58	12.3	40.0	2.98	93	303	60	19	6
WH		12	3	85	77	19.099	15.00	31.83	13.2	48.0	13.41	419	1,528	268	84	31
WH		13	2	87	82	10.849	10.00	21.70	14.9	55.0	10.34	323	1,193	207	65	24
WH		14	5	85	94	23.386	25.00	46.77	18.8	71.0	28.17	880	3,321	563	176	66
WH		15	2	82	103	8.149	10.00	16.30	22.4	75.0	11.63	364	1,222	233	73	24
WH		16	5	82	98	17.905	25.00	35.81	24.3	89.0	27.87	872	3,187	557	174	64
WH		17	2	83	108	6.344	10.00	12.69	30.9	120.0	12.56	392	1,523	251	78	30
WH	Totals		24	86	84	135.134	120.00	242.00	15.8	61.2	122.63	3,833	14,815	2,453	767	296
WL		15	1	87	99	4.074	5.00	8.15	23.5	95.0	6.13	192	774	123	38	15
WL		17	5	84	96	15.860	25.00	34.89	26.1	92.7	29.10	910	3,236	582	182	65
WL		18	2	84	104	5.659	10.00	11.32	33.9	117.5	12.24	384	1,330	245	77	27
WL		19	2	86	93	5.079	10.00	10.16	35.6	115.0	11.57	362	1,168	231	72	23
WL		20	5	80	96	11.459	25.00	22.92	38.0	119.0	27.93	872	2,727	559	174	55
WL		21	1	83	95	2.079	5.00	4.16	43.6	130.0	5.76	181	540	115	36	11
WL		22	3	84	101	5.682	15.00	13.26	44.2	155.7	18.83	587	2,065	377	117	41
WL		23	1	83	103	1.733	5.00	3.47	55.9	205.0	6.22	194	711	124	39	14
WL	Totals		20	83	97	51.626	100.00	108.32	34.0	115.9	117.78	3,681	12,550	2,356	736	251
DF		8	1	86	20	14.324	5.00									
DF		9	1	89	30	11.318	5.00	11.32	5.1	20.0	1.64	58	226	33	12	5
DF		11	1	88	77	7.576	5.00	7.58	14.8	60.0	3.20	112	455	64	22	9
DF		13	1	87	97	5.424	5.00	10.85	14.8	60.0	4.52	160	651	90	32	13
DF		14	1	86	86	4.677	5.00	9.35	15.3	55.0	4.07	143	514	81	29	10
DF		16	1	84	97	3.581	5.00	7.16	25.0	85.0	5.08	179	609	102	36	12
DF		18	1	81	99	2.829	5.00	5.66	31.4	110.0	5.07	178	622	101	36	12
DF	Totals		7	87	56	49.730	35.00	51.92	16.0	59.3	23.58	830	3,078	472	166	62
RA		9	1	79	36	11.318	5.00	11.32	6.1	20.0	1.89	69	226	38	14	5
RA		10	1	80	50	9.167	5.00	9.17	8.9	30.0	2.24	82	275	45	16	6
RA		12	1	80	69	6.366	5.00	6.37	19.1	60.0	3.35	122	382	67	24	8
RA	Totals		3	80	49	26.851	15.00	26.85	10.1	32.9	7.48	272	883	150	54	18
DL		18	1	84	108	2.829	5.00	5.66	32.8	120.0	5.11	186	679	102	37	14
DL	Totals		1	84	108	2.829	5.00	5.66	32.8	120.0	5.11	186	679	102	37	14
Totals			55	85	78	266.170	275.00	434.75	20.2	73.6	276.58	8802	32,006	5,532	1,760	640



LOGGING PLAN

Timber Sale Contract No. 341-08-44
 Moot Again
 Portions of Sections 2, 3, 4, 10
 and 11, T2N, R9W, W. M.
 Tillamook County, Oregon

Area	Type of Operation	Acres	
		Gross	Net
1	Partial Cut	95	82
2	Modified Clearcut	36	34
3	Partial Cut	40	32
4	Partial Cut	107	68
5	Modified Clearcut	57	55
6	Modified Clearcut	104	100
7	Modified Clearcut	148	89
8	Partial Cut	22	20
9	Modified Clearcut	24	19
Total		633	499

1000 0 1000 Feet

Tillamook District GIS
 October 29, 2007

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