



"STAND FOR THE FOREST"

Timber Sale Appraisal High N Dry

Sale TL-341-2015-84-

District: Tillamook

Date: April 29, 2015

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$1,167,766.44	\$479,085.58	\$1,646,852.02
		Project Work:	(\$807,810.00)
		Advertised Value:	\$839,042.02



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District: Tillamook

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Timber Description

Location: Portions of Sections 19, 20, 28, 29, 30, 31, 32, and 33, T3N, R8W, W.M., Tillamook County, Oregon.

Stand Stocking: 60%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	16	0	95
Western Hemlock / Fir	15	0	95
Sitka Spruce	9	0	95
Alder (Red)	14	0	95
Maple	12	0	95

Volume by Grade	2S	3S	4S	8" - 9"	10" - 11"	12"+	6" - 7"	Total
Douglas - Fir	2,272	2,030	812	0	0	0	0	5,114
Western Hemlock / Fir	703	874	311	0	0	0	0	1,888
Sitka Spruce	0	11	25	0	0	0	0	36
Alder (Red)	0	0	0	560	794	400	1,088	2,842
Maple	0	0	0	0	0	0	24	24
Total	2,975	2,915	1,148	560	794	400	1,112	9,904

Comments: Pond Values Used: 1st Quarter Calendar Year 2015.

Western redcedar and Other Cedars Stumpage Price = Pond Value minus Logging Cost:
 $\$780/\text{MBF} = \$1,160/\text{MBF} - \$380/\text{MBF}$

Pulp (Conifer and Hardwood) Price = $\$25/\text{MBF}$

SCALING COST ALLOWANCE = $\$5.00/\text{MBF}$

FUEL COST ALLOWANCE = $\$3.00/\text{Gallon}$

HAULING COST ALLOWANCE
Hauling costs equivalent to $\$780$ daily truck cost.

Other Costs (with Profit & Risk to be added):
Brand and Paint: $\$2/\text{MBF} \times 9,904 \text{ MBF} = \$19,808$
Snag Creation, girdling at base: $\$10/\text{tree} \times 1,047 \text{ trees} = \$10,470$
TOTAL Other Costs (with Profit & Risk to be added) = $\$30,278$

Other Costs (No Profit & Risk Added):
Machine Cleaning: $\$1,000/\text{machine} \times 3 = \$3,000$
Equipment moving between Areas 1, 4, 5, and 6: $(2.6 \text{ miles} \times 3 \text{ pieces of equipment} \times \$100/\text{hour}) / 2 \text{ MPH} = \390
Non project road #1: $6+80 \text{ stations} \times \$300/\text{station} = \$2,040$
Non project road #2: $14+22 \text{ stations} \times \$285/\text{station} = \$4,052$
Non-project and un-surfaced road blocking: $\$50/\text{block} \times 5 \text{ roads} = \250
Cover materials for piles: $\$5/\text{pile} \times 37 \text{ piles} = \185
Slash piling and sorting (Cable Ground): $\$5/\text{ac} \times 521 \text{ ac} = \$2,605$
TOTAL Other Costs (No Profit & Risk added) = $\$12,522$

ROAD MAINTENANCE:

Spot rocking:

Surfaced in unit and new construct roads: $250\text{cy} \times \$13.00/\text{cy} / 9,904 \text{ MBF} = \$0.33/\text{MBF}$
Cook Creek, McPherson, and Lost Creek Roads: $30\text{cy}/\text{mmbf}/\text{mile} \times 6.8 \text{ MMBF} \times \$13.00/\text{cy} \times 7.7 \text{ miles} / 9,904 \text{ MBF} = \$2.06/\text{MBF}$
Lost Creek and Buck Mtn Roads: $30\text{cy}/\text{mmbf}/\text{mile} \times 3.1 \text{ MMBF} \times \$13.00/\text{cy} \times 9.9 \text{ miles} / 9,904 \text{ MBF} = \$1.21/\text{MBF}$

Grading:

In unit and new construct roads: $\$250/\text{mile} \times 4.4 \text{ miles} \times 2 \text{ times} / 9,904 \text{ MBF} = \$0.22/\text{MBF}$
Cook Creek, McPherson, and Lost Creek Roads: $\$250/\text{mile} \times 7.7 \text{ miles} \times 4 \text{ times} / 9,904 \text{ MBF} = \$0.78/\text{MBF}$
Lost Creek and Buck Mtn Roads: $\$250/\text{mile} \times 9.9 \text{ miles} \times 2 \text{ times} / 9,904 \text{ MBF} = \$0.50/\text{MBF}$

Final Maintenance Grading: $\$500 \times 22 \text{ miles} / 9,904 \text{ MBF} = \$1.11/\text{MBF}$
Final Maintenance Compaction: $\$950/\text{mile} \times 12.1 \text{ miles} / 9,904 \text{ MBF} = \$1.16/\text{MBF}$
Total Road Maintenance: $\$7.37/\text{MBF}$



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Logging Conditions

Combination#: 1		Douglas - Fir	92.56%
Logging System:	Cable: Medium Tower >40 - <70		Process: Stroke Delimber
yarding distance:	Medium (800 ft)		downhill yarding: No
tree size:	Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF		
loads / day:	10.03	bd. ft / load: 3000	
cost / mbf:	\$199.40		
machines:	Log Loader (A) Stroke Delimber (A) Tower Yarder (Medium)		
Combination#: 2		Western Hemlock / Fir	86.54%
		Sitka Spruce	97.50%
Logging System:	Cable: Medium Tower >40 - <70		Process: Stroke Delimber
yarding distance:	Medium (800 ft)		downhill yarding: No
tree size:	Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF		
loads / day:	9	bd. ft / load: 3800	
cost / mbf:	\$175.44		
machines:	Log Loader (A) Stroke Delimber (A) Tower Yarder (Medium)		
Combination#: 3		Alder (Red)	87.10%
		Maple	82.00%
Logging System:	Cable: Medium Tower >40 - <70		Process: Stroke Delimber
yarding distance:	Medium (800 ft)		downhill yarding: No
tree size:	Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF		
loads / day:	7.5	bd. ft / load: 3200	
cost / mbf:	\$250.00		
machines:	Log Loader (A) Stroke Delimber (A) Tower Yarder (Medium)		
Combination#: 4		Douglas - Fir	7.44%
		Western Hemlock / Fir	13.46%
		Sitka Spruce	2.50%
		Alder (Red)	12.90%
		Maple	18.00%
Logging System:	Shovel		Process: Stroke Delimber
yarding distance:	Short (400 ft)		downhill yarding: No
tree size:	Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF		

loads / day: 10

bd. ft / load: 3200

cost / mbf: \$99.12

machines: Stroke Delimber (B)



Timber Sale Appraisal High N Dry

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Logging Costs

Operating Seasons: 2.00	Profit Risk: 18%
Project Costs: \$807,810.00	Other Costs (P/R): \$30,278.00
Slash Disposal: \$0.00	Other Costs: \$12,522.00

Miles of Road

Road Maintenance: \$7.37

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
Western Hemlock / Fir	\$0.00	2.0	3.8
Sitka Spruce	\$0.00	2.0	3.2
Alder (Red)	\$0.00	3.0	3.0
Maple	\$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									
\$191.94	\$7.74	\$0.89	\$117.00	\$3.06	\$57.71	\$0.00	\$5.00	\$1.26	\$384.60
Western Hemlock / Fir									
\$165.17	\$7.74	\$0.89	\$107.76	\$3.06	\$51.23	\$0.00	\$5.00	\$1.26	\$342.11
Sitka Spruce									
\$173.53	\$7.74	\$0.89	\$127.96	\$3.06	\$56.37	\$0.00	\$5.00	\$1.26	\$375.81
Alder (Red)									
\$230.53	\$7.74	\$0.89	\$91.00	\$3.06	\$59.98	\$0.00	\$5.00	\$1.26	\$399.46
Maple									
\$222.84	\$7.74	\$0.89	\$91.00	\$3.06	\$58.60	\$0.00	\$5.00	\$1.26	\$390.39

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$566.02	\$181.42	\$0.00
Western Hemlock / Fir	\$0.00	\$467.88	\$125.77	\$0.00
Sitka Spruce	\$0.00	\$446.11	\$70.30	\$0.00
Alder (Red)	\$0.00	\$567.53	\$168.07	\$0.00
Maple	\$0.00	\$450.00	\$59.61	\$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
Maple	0	\$0.00	\$0.00

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	5,114	\$181.42	\$927,781.88
Western Hemlock / Fir	1,888	\$125.77	\$237,453.76
Sitka Spruce	36	\$70.30	\$2,530.80
Alder (Red)	2,842	\$168.07	\$477,654.94
Maple	24	\$59.61	\$1,430.64

Gross Timber Sale Value

Recovery: \$1,646,852.02

Prepared By: David Wells

Phone: 503-842-2545



PROJECT SUMMARY SHEET

Sale: High N Dry

CONSTRUCTION

Point	A to B	100+10	stations =	\$160,363.04
Point	C to D	15+80	stations =	\$44,083.10
Point	E to F	15+90	stations =	\$21,582.03
Point	G to H	47+60	stations =	\$74,623.82
Point	I to J	20+70	stations =	\$55,021.44
Point	K to L	15+60	stations =	\$36,838.02
SUBTOTAL CONSTRUCTION				\$392,511.45

IMPROVEMENT

Point	A to B	45+00	stations =	\$39,261.35
Point	C to D	21+00	stations =	\$3,760.26
Point	K to L	11+45	stations =	\$1,222.97
Point	M to N	239+00	stations =	\$108,895.30
Point	O to P	300+00	stations =	\$110,321.10
Point	Q to R	5+50	stations =	\$4,555.45
SUBTOTAL IMPROVEMENT				\$268,016.43

RECONSTRUCTION

Point	A to B	53+00	stations =	\$63,757.03
SUBTOTAL RECONSTRUCTION				\$63,757.03

SPECIAL PROJECTS

Stockpile 3,000 CY of 1 1/2"- 0" Maintenance Rock	30,480.00
Stockpile 500 CY of 3"- 1" Drain Rock	\$5,080.00
Brush 44.0 miles of road	\$41,000.00
SUBTOTAL SPECIAL PROJECTS	\$76,560.00

MOVE IN **\$6,965.09**

GRAND TOTAL **\$807,810.00**

Sale:			High N Dry			Road:			A to B					
Construction -		100+10 1.90	stations miles		Improvement -		45+00 0.85	stations miles		Reconstruction -		53+00 1.00	stations miles	
CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -														
Station		to	Station	Avg. Sideslope	Avg. Dist. To W.A. (mi.)	Outslope/Ditch		Cost per Station						
45+00			49+35	50%		Outslope		\$459	=	\$1,996.65				
49+35			54+60	60%	0.2	Outslope		\$1,000	=	\$5,250.00				
54+60			65+00	45%		Outslope		\$269	=	\$2,797.60				
65+00			66+40	Fill		Outslope		\$450	=	\$630.00				
66+40			75+80	60%	0.5	Outslope		\$1,500	=	\$14,100.00				
75+80			81+00	30%		Outslope		\$191	=	\$993.20				
81+00			90+30	60%	0.5	Outslope		\$1,100	=	\$10,230.00				
143+30			146+30	55%		Outslope		\$689	=	\$2,067.00				
146+30			149+70	70%	0.1	Outslope		\$2,352	=	\$7,996.80				
149+70			150+60	Through Cut	0.2	Outslope		\$4,000	=	\$3,600.00				
150+60			154+40	70%	0.2	Outslope		\$2,433	=	\$9,245.40				
154+40			164+00	30%		Outslope		\$191	=	\$1,833.60				
164+00			166+00	Fill		Outslope		\$600	=	\$1,200.00				
166+00			185+70	30%		Outslope		\$191	=	\$3,762.70				
185+70			195+70	55%		Outslope		\$689	=	\$6,890.00				
195+70			197+10	Through Cut		Outslope		\$3,270	=	\$4,578.00				
197+10			198+10	Fill/Land. Const.		Outslope		\$700	=	\$700.00				
										TOTAL		\$77,870.95		
IMPROVEMENT: EXCAVATION -														
Road Ditching		0+00	to	25+10	25.10	sta. @	\$70.00	per sta. =	\$1,757.00					
Fill Const. (raise fill 7 ft. for grade improv.)			@	31+40	300	cy. @	\$1.40	per c.y.=	\$420.00					
										TOTAL EXCAVATION		\$2,177.00		
RECONSTRUCTION: CLEARING AND GRUBBING -														
Scattering					4.380	acres @	\$980.00	per acre =	\$4,292.40					
										TOTAL CLEARING AND GRUBBING		\$4,292.40		
RECONSTRUCTION: EXCAVATION -														
Widening		90+30	to	97+00	1900	cy. @	\$1.40	per c.y.=	\$2,660.00					
Road Earthwork		97+00	to	116+00	20.20	sta @	\$135.00	per sta. =	\$2,727.00					
Fill Const.		116+00	to	117+20	300	cy. @	\$1.40	per c.y.=	\$420.00					
Through Cut/Grade Impro		117+20	to	119+20	1200	cy. @	\$1.60	per c.y.=	\$1,920.00					
Road Earthwork		119+20	to	143+30	24.10	sta @	\$135.00	per sta. =	\$3,253.50					
										TOTAL EXCAVATION		\$10,980.50		
RECONSTRUCTION: ENDHAUL -														
Widening		90+30	to	97+00	1900	cy. @	\$1.20	per c.y.=	\$2,280.00					
Through Cut/Grade Impro		117+20	to	119+20	1200	cy. @	\$1.46	per c.y.=	\$1,752.00					
Spread & compact					3100	cy. @	\$0.25	per c.y.=	\$775.00					
										TOTAL ENDHAUL		\$4,807.00		
CULVERTS - MATERIALS & INSTALLATION														
Culverts														
		180	LF of 18"	\$3,150.00				120	LF of 24"	\$3,240.00				
		150	LF of 6"	\$1,050.00										
		60	LF of 48"	\$3,960.00										
		50	LF of 87"x63"	\$7,500.00										
				\$15,660.00										
										\$3,240.00				
Culvert Stakes & Markers														
		11	markers	\$88.00										
				\$88.00										
										TOTAL CULVERTS		\$18,988.00		
ROCK														
0+00 to		45+00	1,580	cy. of	Crushed	@	\$11.56	per c.y.=	\$18,264.80					
45+00 to		120+00	5,400	cy. of	Crushed	@	\$12.34	per c.y.=	\$66,636.00					
120+00 to		178+00	3,040	cy. of	Crushed	@	\$13.38	per c.y.=	\$40,675.20					
Culvert Backfill		10 CY/Cul.	140	cy. of	Crushed	@	\$11.22	per c.y.=	\$1,570.80					
Culvert Backfill		116+50	40	cy. of	Crushed	@	\$11.53	per c.y.=	\$461.20					
Fill Armor Inlet & Outlet		66+00, 116+50</												

SUMMARY OF CONSTRUCTION COST

Sale:

High N Dry

Road:

C to D

Construction -	15+80	stations	Improvement -	21+00	stations	Reconstruction -	0+00	stations
	0.30	miles		0.40	miles		0.00	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

<u>Station</u>	<u>to</u>	<u>Station</u>	<u>Avg. Sideslope</u>	<u>Avg. Dist. To W.A. (mi.)</u>	<u>Outslope/Ditch</u>	<u>Cost per Station</u>		
21+00		22+20	60%	1.5		\$2,278	=	\$2,733.60
22+20		23+30	55%			\$689	=	\$757.90
23+30		25+00	65%	1.5		\$2,884	=	\$4,902.80
25+00		26+50	55%			\$689	=	\$1,033.50
26+50		28+50	65%	1.5		\$2,884	=	\$5,768.00
28+50		36+00	65%	1.8		\$2,884	=	\$21,630.00
36+00		36+80	Land. Const.	1.9		\$8,000	=	\$6,400.00
								TOTAL \$43,225.80

IMPROVEMENT: CLEARING AND GRUBBING -

Scattering

0.960

acres @

\$980.00 per acre =

\$940.80

TOTAL CLEARING AND GRUBBING

\$940.80

IMPROVEMENT: EXCAVATION -

Road Earthwork & Leveling

21.00

sta. @

\$80.00

per sta. =

\$1,680.00

TOTAL EXCAVATION

\$1,680.00

SPECIAL PROJECTS

Construct waste areas -

Grade and shape road -

Roll subgrade w/ vibratory roller prior to rocking -

Grass seed and fertilize -

6.00

hours @

\$130.00

per hour

\$780.00

36.80

stations @

\$15.50

per station

\$570.40

36.80

stations @

\$13.20

per station

\$485.76

TOTAL SPECIAL PROJECTS

\$1,996.76

GRAND TOTAL

\$47,843.36

SUMMARY OF CONSTRUCTION COST

Sale:

High N Dry

Road:

E to F

Construction -	15+90	stations	Improvement -	0+00	stations	Reconstruction -	0+00	stations
	0.30	miles		0.00	miles		0.00	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

Station	to	Station	Avg. Sideslope	Avg. Dist.	Outslope/Ditch	Cost per Station			
				To W.A. (mi.)					
0+00		1+30	60%	0.1	Outslope	\$1,521	=	\$1,977.30	
1+30		4+80	40%		Outslope	\$243	=	\$850.50	
4+80		6+90	Switch Back		Outslope	\$400	=	\$840.00	
6+90		9+50	40%		Outslope	\$243	=	\$631.80	
9+50		10+30	50%		Outslope	\$459	=	\$367.20	
10+30		12+50	60%	0.2	Outslope	\$1,576	=	\$3,467.20	
12+50		15+20	25%		Outslope	\$165	=	\$445.50	
15+20		15+90	Land. Const.		Outslope	\$450	=	\$315.00	
								TOTAL	\$8,894.50

ROCK

0+00 to	15+90	860	cy. of	Crushed	@	\$12.70 per c.y.=	\$10,922.00	
Landing Rock	15+90	80	cy. of	Crushed	@	\$12.82 per c.y.=	\$1,025.60	
							TOTAL ROCK	\$12,070.60

SPECIAL PROJECTS

Grade and shape road -	15.90	stations @	\$15.50	per station	\$246.45
Roll subgrade w/ vibratory roller prior to rocking -	15.90	stations @	\$13.20	per station	\$209.88
Grass seed and fertilize -	0.73	acres @	\$220.00	per acre	\$160.60
				TOTAL SPECIAL PROJECTS	\$616.93

GRAND TOTAL

\$21,582.03

SUMMARY OF CONSTRUCTION COST

Sale:

High N Dry

Road:

G to H

Construction -	<u>47+60</u>	stations	Improvement -	<u>0+00</u>	stations	Reconstruction -	<u>0+00</u>	stations
	0.90	miles		0.00	miles		0.00	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

[illegible]

ROCK

0+00 to	19+50	1,040	cy. of	Crushed	@	\$12.82 per c.y.=	\$13,332.80	
Junction Rock	0+00	10	cy. of	Crushed	@	\$12.30 per c.y.=	\$123.00	
							TOTAL ROCK	\$13,455.80

SPECIAL PROJECTS

Grade and shape road -	47.60	stations @	\$15.50	per station	\$737.80	
Roll subgrade w/ vibratory roller prior to rocking -	47.60	stations @	\$13.20	per station	\$628.32	
Grass seed and fertilize -	2.19	acres @	\$220.00	per acre	\$481.80	
				TOTAL SPECIAL PROJECTS		\$1,847.92

GRAND TOTAL

\$74,623.82

SUMMARY OF CONSTRUCTION COST

Sale:	High N Dry			Road:	I to J		
Construction -	20+70	stations	Improvement -	0+00	stations	Reconstruction -	0+00
	0.39	miles		0.00	miles		0.00
							miles

CONSTRUCTION: CLEARING, GRUBBING, EXCAVATION, DRILL & SHOOT, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -							
Station	to	Station	Avg. Sideslope or Activity	Avg. Dist. To W.A. (mi.)	Outslope/Ditch	Cost per Station	
0+00		2+30	80%	1.5	Outslope	\$4,969	=
2+30		11+25	70%	1.7	Outslope	\$3,466	=
11+25		13+80	40%		Outslope	\$243	=
13+80		15+50	60%	1.8	Outslope	\$2,278	=
15+50		18+20	50%		Outslope	\$459	=
18+20		20+10	60%	2	Outslope	\$2,546	=
20+10		20+70	Landing Const.		Outslope	\$2,000	=
						TOTAL	\$54,218.35

SPECIAL PROJECTS							
Grade and shape road -	20.70	stations @	\$15.50	per station	\$320.85		
Roll subgrade w/ vibratory roller prior to rocking -	20.70	stations @	\$13.20	per station	\$273.24		
Grass seed and fertilize -	0.95	acres @	\$220.00	per acre	\$209.00		
						TOTAL SPECIAL PROJECTS	\$803.09
						GRAND TOTAL	\$55,021.44

SUMMARY OF CONSTRUCTION COST

Sale:		High N Dry			Road:		K to L				
Construction -		15+60	stations	Improvement -		11+45	stations	Reconstruction -		0+00	stations
		0.30	miles			0.22	miles			0.00	miles
CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -											
	Station	to	Station	Avg. Sideslope or Activity	Avg. Dist. To W.A. (mi.)	Outslope/Ditch	Cost per Station				
	11+45		12+50	30%			\$191	=		\$200.55	
	12+50		17+00	65%	1.9		\$2,884	=		\$12,978.00	
	17+00		19+00	55%			\$689	=		\$1,378.00	
	19+00		21+70	60%	2		\$2,100	=		\$5,670.00	
	21+70		26+10	65%	2		\$3,221	=		\$14,172.40	
	26+10		27+05	Land. Const			\$2,000	=		\$1,900.00	
										TOTAL	\$36,298.95
IMPROVEMENT: CLEARING AND GRUBBING -											
Scattering						0.260	acres @	\$980.00	per acre =	\$254.80	
										TOTAL CLEARING AND GRUBBING	\$254.80
IMPROVEMENT: EXCAVATION -											
Road Earthwork						11.45	sta. @	\$50.00	per sta. =	\$572.50	
										TOTAL EXCAVATION	\$572.50
SPECIAL PROJECTS											
Grade and shape road -						27.05	stations @	\$15.50	per station	\$419.28	
Roll subgrade w/ vibratory roller prior to rocking -						27.05	stations @	\$13.20	per station	\$357.06	
Grass seed and fertilize -						0.72	acres @	\$220.00	per acre	\$158.40	
										TOTAL SPECIAL PROJECTS	\$934.74
										GRAND TOTAL	\$38,060.99

SUMMARY OF CONSTRUCTION COST

Sale:

High N Dry

Road:

M to N

Construction -	0+00	stations	Improvement -	239+00	stations	Reconstruction -	0+00	stations
	0.00	miles		4.53	miles		0.00	miles

IMPROVEMENT: EXCAVATION -

Road Ditching	0+00	to	17+50	17.50	sta. @	\$50.00	per sta. =	\$875.00
Road Ditching (End Haul)	17+50	to	45+10	27.60	sta. @	\$100.00	per sta. =	\$2,760.00
Road Ditching (End Haul)	98+90	to	114+50	15.60	sta. @	\$80.00	per sta. =	\$1,248.00
Spot Ditching/Ditch outs	128+30	to	183+25	54.95	sta. @	\$30.00	per sta. =	\$1,648.50
Widen Cutbank Sluff	183+25	to	187+50	4.25	sta. @	\$80.00	per sta. =	\$340.00
Road Ditching	187+50	to	195+70	8.20	sta. @	\$50.00	per sta. =	\$410.00
TOTAL EXCAVATION								\$7,281.50

ROCK

0+00 to	239+00	6,150	cy. of	Crushed	@	\$14.62	per c.y.=	\$89,913.00
Camp Site Rd, 350 Ft.	138+00	140	cy. of	Pit-Run	@	\$10.33	per c.y.=	\$1,446.20
Waste Area Rd, 550 Ft.	233+00	220	cy. of	Pit-Run	@	\$9.39	per c.y.=	\$2,065.80
TOTAL ROCK								\$93,425.00

SPECIAL PROJECTS

Construct/Improve waste areas -	2.00	hours @	\$130.00	per hour	\$260.00
Grade, Shape, & Roll Campsite & Waste Area Rds. @ 138+00 & 233+00	9.00	stations @	\$28.70	per station	\$258.30
Grade and shape road -	239.00	stations @	\$15.50	per station	\$3,704.50
Roll subgrade w/ vibratory roller prior to rocking -	239.00	stations @	\$13.20	per station	\$3,154.80
Grass seed and fertilize -	2.19	acres @	\$220.00	per acre	\$481.80
Mulching -	0.549	acres @	\$600.00	per acre	\$329.40
TOTAL SPECIAL PROJECTS					\$8,188.80

GRAND TOTAL

\$108,895.30

SUMMARY OF CONSTRUCTION COST

Sale:	High N Dry				Road:	O to P		
Construction -	0+00	stations	Improvement -	300+00	stations	Reconstruction -	0+00	stations
	0.00	miles		5.68	miles		0.00	miles
IMPROVEMENT: EXCAVATION -								
Road Ditching (End Haul)	16+35	to	117+00	100.65	sta. @	\$100.00	per sta. =	\$10,065.00
Road Ditching (End Haul)	125+00	to	137+00	12.00	sta. @	\$80.00	per sta. =	\$960.00
Road Ditching	137+00	to	152+00	15.00	sta. @	\$60.00	per sta. =	\$900.00
Road Ditching	152+00	to	168+00	16.00	sta. @	\$50.00	per sta. =	\$800.00
Road Ditching (End Haul)	168+00	to	187+65	19.65	sta. @	\$100.00	per sta. =	\$1,965.00
Road Ditching (End Haul)	187+65	to	227+75	40.10	sta. @	\$90.00	per sta. =	\$3,609.00
Road Ditching(Drill, Shoot	284+60	to	297+60	13.00	sta. @	\$110.00	per sta. =	\$1,430.00
TOTAL EXCAVATION								\$19,729.00
CULVERTS - MATERIALS & INSTALLATION								
<u>Culverts</u>								
	30	LF of 18"		\$525.00				
				\$525.00				
<u>Culvert Stakes & Markers</u>								
	1	markers		\$8.00				
				\$8.00				
TOTAL CULVERTS								\$533.00
ROCK								
82+00 to	187+65	2,370	cy. of	Crushed	@	\$18.48	per c.y.=	\$43,797.60
238+00 to	300+00	1,070	cy. of	Crushed	@	\$20.57	per c.y.=	\$22,009.90
Spot Rocking	0+00 to 82+00	140	cy. of	Crushed	@	\$16.66	per c.y.=	\$2,332.40
Spot Rocking	187+65 to 238+00	200	cy. of	Crushed	@	\$12.73	per c.y.=	\$2,546.00
Leveling Rock	238+00 to 300+00	200	cy. of	Crushed	@	\$20.57	per c.y.=	\$4,114.00
Culvert Backfill	175+65	10	cy. of	Crushed	@	\$11.08	per c.y.=	\$110.80
TOTAL ROCK								\$74,910.70
SPECIAL PROJECTS								
Drill, Load, Shoot, Materials, & Fees for ditching 284+60 to 297+60	1.00	lump sum @		\$5,000.00		each		\$5,000.00
Reshape road surface from outslope to inslope 238+00 to 284+60	4.00	hours @		\$130.00		per hour		\$520.00
Grade and shape road -	300.00	stations @		\$15.50		per station		\$4,650.00
Roll subgrade w/ vibratory roller prior to rocking -	300.00	stations @		\$13.20		per station		\$3,960.00
Grass seed and fertilize -	2.75	acres @		\$220.00		per acre		\$605.00
Mulching -	0.689	acres @		\$600.00		per acre		\$413.40
TOTAL SPECIAL PROJECTS								\$15,148.40
GRAND TOTAL								\$110,321.10

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Pit:	Cook_Creek	Location:	SW 1/4 Sec. 4, T2N, R8W, W.M.
Sale:	High N Dry	Road & Stockpiles	14030 c.y.
Swell:	1.40		
Shrinkage	1.16	Total Truck Loads:	14030 c.y.
Drill Pct.:	100%	In Place Total:	10021 c.y.

Pit Development & cleanup including clearing, grubbing, & slash piling of waste area adjacent to pit, place overburden, existing reject piles in waste area and bench access road const/widening.						\$17,000.00
Drill & Shoot:	\$2.60	/cu.yd.	x	10021	cu.yds.	= \$26,054.60
Push Rock:	\$1.00	/cu.yd.	x	14030	cu.yds.	= \$14,030.00
Load Crusher:	\$0.70	/cu.yd.	x	14030	cu.yds.	= \$9,821.00
Crush Rock:	\$3.00	/cu.yd.	x	14030	cu.yds.	= \$42,090.00
Load Dump Truck:	\$0.70	/cu.yd.	x	14030	cu.yds.	= \$9,821.00
				Subtotal		\$118,816.60

Move In/Set-up Crusher						\$3,400.00
Move In and set up Drill and Compressor	1	@	\$672.75	=		\$672.75
Move in Roller and Compactor	1	@	\$672.75	=		\$672.75
Move in Grader	1	@	\$253.31	=		\$253.31
Move in D-8	1	@	\$1,023.99	=		\$1,023.99
Move in Loader	1	@	\$867.55	=		\$867.55
Move in Excavator	1	@	\$1,131.11	=		\$1,131.11
Move in Trucks	3	@	\$223.93	=		\$671.79
Move in Water Truck	1	@	\$263.21	=		\$263.21
Change Gradation	3	@	\$250.00	=		\$750.00
				Subtotal		\$9,706.46

Base Cost=	\$9.16	Per Cu.Yd.	TOTAL PRODUCTION COSTS	\$128,523.06
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Road Segment	Haul Cost \$/cu.yd.	Proc Cost \$/cu.yd.	Base Cost. \$/cu.yd.	Cost \$/cu.yd.	Number Cu. Yds	ROCK COST
A to B Ditchline Drain Rock (Drain)	7.17	2.00	9.16	18.33	60	\$1,099.80
M to N 0' 23900' (Crushed)	3.01	2.45	9.16	14.62	6150	\$89,913.00
M to N Camp Site Rd, 350 Ft. (Pit-Run)	3.43	1.40	5.50	10.33	140	\$1,446.20
M to N Waste Area Rd, 550 Ft. (Pit-Run)	2.49	1.40	5.50	9.39	220	\$2,065.80
O to P 8200 18765' (Crushed)	6.87	2.45	9.16	18.48	2370	\$43,797.60
O to P 23800 30000' (Crushed)	8.96	2.45	9.16	20.57	1070	\$22,009.90
O to P Spot Rocking (Crushed)	5.40	2.10	9.16	16.66	140	\$2,332.40
O to P Leveling Rock (Crushed)	8.96	2.45	9.16	20.57	200	\$4,114.00
Q to R 0' 550' (Crushed)	0.99	2.45	9.16	12.60	150	\$1,890.00
Q to R Culvert Backfill (Crushed)	0.99	0.60	9.16	10.75	30	\$322.50
Stockpile 1 1/2" - 0" Maintenance Rock	0.00	1.00	9.16	10.16	3000	\$30,480.00
Stockpile 3" - 1" Drain Rock	0.00	1.00	9.16	10.16	500	\$5,080.00
				Total C.Y.	14030	Sub Total \$204,551.20

TOTAL ROCKING COSTS	\$204,551.20
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ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Pit:	Lost Creek	Location:	NW 1/4 Sec. 30, T3N, R8W, W.M.
Sale:	High N Dry	Road:	12800 c.y.
Swell:	1.40	Stockpile:	c.y.
Shrinkage	1.16	Total Truck Loads:	12800 c.y.
Drill Pct.:	90%	In Place Total:	9143 c.y.

Pit Development & Cleanup including Clearing and grubbing of Waste Area @ adjacent to pit, place overburden in Waste Area, spread and compact. \$3,800.00

Drill & Shoot:	\$2.60 /cu.yd.	x	8229 cu.yds.	=	\$21,395.40
Rip Rock:	\$2.00 /cu.yd.	x	914 cu.yds.	=	\$1,828.00
Push Rock:	\$0.70 /cu.yd.	x	12800 cu.yds.	=	\$8,960.00
Load Crusher:	\$0.70 /cu.yd.	x	12800 cu.yds.	=	\$8,960.00
Crush Rock:	\$2.35 /cu.yd.	x	12800 cu.yds.	=	\$30,080.00
Load Dump Truck:	\$0.70 /cu.yd.	x	12800 cu.yds.	=	\$8,960.00
Oversize Reduction:	\$4.50 /cu.yd.	x	3840 cu.yds.	=	\$17,280.00

Subtotal \$101,263.40

Move In/Set-up Crusher					\$1,500.00
Move In and set up Drill and Compressor	1	@	\$672.75	=	\$672.75
Move in Roller and Compactor	1	@	\$672.75	=	\$672.75
Move in Grader	1	@	\$253.31	=	\$253.31
Move in D-8	1	@	\$1,023.99	=	\$1,023.99
Move in Rock Hammer	1	@	\$867.55	=	\$867.55
Move in Excavator	1	@	\$1,131.11	=	\$1,131.11
Move in Trucks	3	@	\$223.93	=	\$671.79

Subtotal \$6,793.25

Base Cost=	\$8.44	Per Cu.Yd.	TOTAL PRODUCTION COSTS	\$108,056.65
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Road Segment	Haul Cost \$/cu.yd.	Proc Cost \$/cu.yd.	Base Cost. \$/cu.yd.	Cost \$/cu.yd.	Number Cu. Yds	ROCK COST
A to B 0 4500 (Crushed)	0.92	2.20	8.44	11.56	1580	\$18,264.80
A to B 4500 12000 (Crushed)	1.70	2.20	8.44	12.34	5400	\$66,636.00
A to B 12000 17800 (Crushed)	2.74	2.20	8.44	13.38	3040	\$40,675.20
A to B Culvert Backfill (Crushed)	2.18	0.60	8.44	11.22	140	\$1,570.80
A to B Culvert Backfill (Crushed)	2.49	0.60	8.44	11.53	40	\$461.20
A to B Fill Armor Inlet & Outlet (Riprap)	4.99	1.40	7.00	13.39	100	\$1,339.00
A to B Landing Rock (Crushed)	3.27	2.20	8.44	13.91	240	\$3,338.40
A to B Energy Dissipator (Riprap)	4.24	1.40	7.00	12.64	10	\$126.40
A to B Energy Dissipator (Riprap)	4.61	1.40	7.00	13.01	10	\$130.10
A to B Energy Dissipator (Riprap)	5.46	1.40	7.00	13.86	10	\$138.60
A to B Energy Dissipator (Riprap)	5.81	1.40	7.00	14.21	10	\$142.10
A to B Energy Dissipator (Riprap)	6.04	1.40	7.00	14.44	10	\$144.40
E to F 0 1590 (Crushed)	2.06	2.20	8.44	12.70	860	\$10,922.00
E to F Landing Rock (Crushed)	2.18	2.20	8.44	12.82	80	\$1,025.60
E to F Junction Rock (Crushed)	2.96	0.90	8.44	12.30	10	\$123.00
G to H 0 1950 (Crushed)	2.18	2.20	8.44	12.82	1040	\$13,332.80
G to H Junction Rock (Crushed)	2.96	0.90	8.44	12.30	10	\$123.00
O to P Spot Rocking (Crushed)	1.84	2.45	8.44	12.73	200	\$2,546.00
O to P Culvert Backfill (Crushed)	1.64	1.00	8.44	11.08	10	\$110.80
				Total C.Y.	12800	Sub Total
						\$161,150.20

TOTAL ROCKING COSTS \$161,150.20

Move-In Calculations for Project Work not Involving Rocking/Pit Work

Sale: **High N Dry**

LOWBOY HAUL (Round Trip)		
DIST. (mi)	ROADWAY	AVE SPEED (mph)
60.0	Pavement	30
8.2	Main Lines	7
5.3	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	Drill & Compressor	\$807.30		\$46.00	0.00	4.00	6	\$276.00	\$1,083.30
1	Excavators (Med.)	\$929.65		\$35.50	0.00	6.00	6	\$213.00	\$1,142.65
1	Excavators (Large)	\$1,177.11	1	\$44.80	0.00	6.00	6	\$268.80	\$1,445.91
1	Tired Backhoes/Skidlers	\$672.75		\$3.00	0.00	0.00	4	\$12.00	\$684.75
1	Tractors (D7)	\$1,042.35	2	\$11.30	0.00	6.00	6	\$67.80	\$1,110.15
1	Dump Truck (10 cy +)	\$282.05		\$2.85	0.00	6.00	6	\$17.10	\$299.15
1	Dump Truck (Off Hiway)	\$929.65	1	\$4.75	0.00	6.00	6	\$28.50	\$958.15
1	Water Truck (1500 Gal)	\$223.93		\$2.85	0.00	6.00	6	\$17.10	\$241.03
TOTAL MOVE-IN COSTS:								\$6,965.09	



OREGON DEPARTMENT OF FORESTRY CRUISE REPORT *High N Dry*

1. Type of Sale

Regeneration harvest, Recovery.

2. Legal Description

Portions of Sections 19, 20, 28, 29, 30, 31, 32, and 33, T3N R8W, W.M., Tillamook County, Oregon.

3. Sale Acreage

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

	<u>ACRES</u>	
	<u>Gross</u>	<u>Net</u>
Area 1 (Modified Clearcut)	160	118
Area 2 (Modified Clearcut)	117	96
Area 3 (Modified Clearcut)	105	87
Area 4 (Modified Clearcut)	116	93
Area 5 (Modified Clearcut)	133	92
Area 6 (Modified Clearcut)	111	81

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 timber sale areas were cruised with variable plot. Plot and line spacing was 350' and 700' respectively on different azimuths for each unit. Areas 2 and 4 were cruised to create a 350' square grid. All conifers 8" DBH and greater containing 20 board feet and all hardwoods 8" DBH and greater containing 30 board feet were recorded. Species, DBH (to the nearest inch), merchantable bole length (to the nearest foot), form factor, and defect were recorded for all trees. Merchantable heights were recorded to 6" and 7" outside bark for conifers and hardwoods respectively.

B. Plot size

BAF for each area follows: Areas 1, 2, and 3-40 BAF, Area 4-33.61 BAF and Areas 5 and 6 – 22.5 BAF. Point of tree observation was 04'.

C. Grading System

All trees were graded according to Columbia River Log Scaling and Grading Rules. Log lengths favored 40' lengths.

5. Computation Procedure

Plot data was entered into SuperAce for computation of basal area, advertised volume, volume summary, log stock table, and stand table for each species and type.

Net sale acreage was used for volume calculation. Net acreage is the gross acreage (the area within the posted sale boundary) minus the posted buffer areas and roads.

Cruise Statistics (Board Foot Volumes)			
Area	Number of Plots	SE (%)	CV (%)
1	34	11.0	64.3
2	42	10.3	66.7
3	29	13.6	71.8
4	17	9.4	37.8
5	17	17.4	69.5
6	12	25.1	83.3
Total	151	5.4	66.1

6. Hidden Defect and Breakage

A reduction for hidden defect and breakage of 5% and 10% was applied to conifers and hardwoods respectively.

7. Timber Description

All of the areas except the SE edge of Area 3 were burned in the 1933 Tillamook Fire. The 1945 Wilson River Fire burned the areas except for a south portion of Area 2, the SW portion of Area 5, and north portion of Area 6.

Areas 1, 2, 3, and 4 naturally regenerated. Area 5 was seeded in 1960 and received additional reforestation work in 1973. The east ½ of Area 6 was seeded in 1963 and 1967 and the west ½ naturally regenerated.

None of the areas were sprayed to control alder and there has been no other stand

management.

Sale Area	Species	DBH	Merchantable Bole Height (feet)	Merchantable top (inches inside bark)
1	Douglas-fir	20.4	75	5
	Hemlock	15.8	56	5
	Red alder	14.7	51	6
2	Douglas-fir	16.6	76	5
	Hemlock	14.2	60	5
	Red alder	13.3	40	6
3	Douglas-fir	15.5	67	5
	Hemlock	14.8	56	5
	Red alder	13.9	48	6
4	Douglas-fir	14.2	45	5
	Hemlock	18.3	60	5
	Red alder	13.4	51	6
5	Douglas-fir	16.7	56	5
	Hemlock	19.9	51	5
	Red alder	13.7	41	6
6	Douglas-fir	14.8	50	5
	Hemlock	12.0	29	5
	Red alder	14.3	48	6

8. Cruiser Names/Dates

Cruised by contractor in 2007 and 2013. District personnel cruised additional plots in 2014 and 2015.

9. Revenue Distribution

FDF 100%

Tax Code: 56-1

Deed Numbers: 35, 70, and 211

10. Attachments

Volume Summary

Stand Tables

Log Stock Tables

Logging Plan

11. Stand and Log Stock Tables Species Key

DF – Douglas-fir take

RA – Red alder take

WH – Western hemlock take

SS – Sitka spruce take

BM – Big leaf maple take

DL – Douglas-fir leave (for snag creation)

SL – Sitka spruce leave (for snag creation)

OH – Big leaf maple leave (for snag creation)

RC – Red cedar leave

GF – Grand fir leave

OC – Existing snag, class 2 leave

TC TLOGSTVB				Log Stock Table - MBF																						
				Project: DEMO																						
T03N R08W S30 TSALE										T03N R08W S30 TSAL																
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page	2																	
03N	08W	30	AREA_1	SALE	118.00			Date	3/19/2015																	
								Time	3:45:13PM																	
S Spp	So	Gr	Log	T	rt	de	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	CO	4	32					1	5.0		1	.2			1											
DF	CO	4	33					3	5.0		3	.3			3											
DF	CO	4	34					8	5.0		8	.9			8											
DF	CO	4	35					2	5.0		2	.2			2											
DF	CO	4	36					2	5.0		2	.2			2											
DF	CO	4	38					2	5.0		2	.2			2											
DF	CO	4	39					2	5.0		2	.2			2											
DF	CO	4	40					6	5.0		6	.7				6										
DF				Totals				867	5.0		824	32.4			49	10	60	52	172	70	289	109	13			
WH	CO	2	26					18	5.0		18	2.9											18			
WH	CO	2	36					15	5.0		14	2.3									14					
WH	CO	2	40					318	5.0		302	49.2						73		23	123	83				
WH	CO	3	36					52	5.0		50	8.1				12	27	11								
WH	CO	3	40					120	5.0		114	18.5				25	26	45	18							
WH	CO	4	12					2	5.0		2	.4			2											
WH	CO	4	13					4	5.0		4	.6			4											
WH	CO	4	16					3	5.0		3	.4			3											
WH	CO	4	18					6	5.0		6	.9			6											
WH	CO	4	20					5	5.0		5	.7					5									
WH	CO	4	22					2	5.0		2	.3			2											
WH	CO	4	23					3	5.0		3	.5			3											
WH	CO	4	26					13	5.0		12	2.0			12											
WH	CO	4	27					3	5.0		3	.4			3											
WH	CO	4	28					4	5.0		3	.6			3											
WH	CO	4	29					1	5.0		1	.2			1											
WH	CO	4	30					1	5.0		1	.2			1											
WH	CO	4	31					11	5.0		10	1.7			10											
WH	CO	4	33					7	5.0		7	1.1			7											
WH	CO	4	34					23	5.0		22	3.6			4			18								
WH	CO	4	37					10	5.0		10	1.6			10											
WH	CO	4	39					5	5.0		5	.8			5											
WH	CO	4	41					20	5.0		19	3.1			19											
WH				Totals				646	5.0		614	24.1			94	37	57	75	91	23	138	83	18			
BM	H	4	32					27	10.0		24	100.0				24										
BM				Totals				27	10.0		24	.9				24										
RC	CO	2	32					19			19	98.9									5			14		
RC	CO	4	21					0			0	1.1			0											
RC				Totals				19			19	.8			0						5			14		
SS	CO	4	37					5	5.0		5	100.0			5											
SS				Totals				5	5.0		5	.2			5											
OH	H	4	30					7			7	100.0				7										
OH				Totals				7			7	.3				7										
Total All Species								2,739	7.1		2,544	100.0			148	429	289	461	397	130	454	192	30	14		

TC		Stand Table Summary														
TSTNDSUM		Project DEMO														
T03N R08W S30 TSALE										T03N R08W S30 TSALE						
Twp	Rge	Sec	Tract	Type			Acres		Plots	Sample Trees			Page:	1		
03N	08W	30	AREA_1	SALE			118.00						Date:	03/19/2015		
													Time:	3:47:15PM		
S Spc	T	Sample		Av		Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	T o t a l s		
		DBH	Trees	FF 16'	Ht Tot				Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF
RA		10	2	78	70	6.539	3.71	6.54	14.6	50.0	2.62	95	327	309	112	39
RA		11	3	75	80	8.619	5.57	11.24	13.2	45.3	4.09	149	509	482	175	60
RA		12	4	84	82	9.371	7.42	16.42	12.3	45.7	5.55	202	750	655	238	89
RA		13	4	78	75	7.946	7.42	9.87	20.4	63.9	5.52	201	631	652	237	74
RA		14	4	78	80	7.096	7.42	12.46	17.4	55.7	5.96	217	694	703	256	82
RA		15	9	82	78	13.536	16.70	27.07	17.7	67.5	13.20	480	1,828	1,557	566	216
RA		16	8	82	82	10.675	14.84	19.99	22.7	83.7	12.49	454	1,672	1,474	536	197
RA		17	6	82	76	7.152	11.13	13.15	23.5	87.2	8.50	309	1,147	1,003	365	135
RA		18	3	81	77	3.257	5.57	5.43	30.9	102.0	4.62	168	554	545	198	65
RA		19	2	84	78	1.956	3.71	3.91	29.7	107.2	3.20	116	419	378	137	49
RA		20	5	83	74	4.264	9.28	8.53	33.0	114.8	7.74	281	979	913	332	116
RA		22	1	83	72	.703	1.86	1.41	37.9	130.0	1.46	53	183	173	63	22
RA		23	1	86	76	.643	1.86	.64	68.5	320.0	1.21	44	206	143	52	24
RA		Totals	52	81	78	81.757	96.47	136.65	20.3	72.4	76.15	2,769	9,898	8,986	3,268	1,168
DF		9	1	77	32	3.385	1.60	3.38	5.8	20.0	.56	20	68	66	23	8
DF		13	1	77	47	1.680	1.60	1.68	18.0	40.0	.86	30	67	102	36	8
DF		15	2	78	83	2.552	3.19	5.10	17.4	52.5	2.53	89	268	298	105	32
DF		18	2	84	110	1.807	3.19	4.53	28.1	107.8	3.62	127	488	428	150	58
DF		19	1	82	120	.837	1.60	2.51	26.5	100.0	1.90	67	251	224	79	30
DF		20	2	85	112	1.464	3.19	4.39	28.5	113.3	3.56	125	498	420	147	59
DF		21	1	85	111	.683	1.60	2.05	29.7	110.0	1.74	61	225	205	72	27
DF		22	1	86	116	.599	1.60	1.80	38.4	166.7	1.97	69	300	232	81	35
DF		23	1	85	129	.544	1.60	1.63	44.6	193.3	2.07	73	315	244	86	37
DF		25	1	86	126	.472	1.60	1.42	49.8	223.3	2.01	71	316	237	83	37
DF		26	3	85	115	1.320	4.79	3.51	54.3	235.3	5.43	191	826	641	225	97
DF		27	4	84	116	1.631	6.39	4.48	58.2	230.1	7.43	261	1,030	877	308	122
DF		28	5	86	127	1.870	7.98	5.61	64.6	297.7	10.34	363	1,670	1,220	428	197
DF		30	1	88	130	.336	1.60	1.01	74.3	363.3	2.14	75	367	252	89	43
DF		32	2	84	126	.570	3.19	2.00	67.9	331.2	3.86	136	661	456	160	78
DF		Totals	28	82	93	19.750	44.71	45.10	38.9	163.0	50.01	1,755	7,350	5,901	2,071	867
WH		9	1	77	54	3.585	1.58	3.58	7.5	30.0	.86	27	108	102	32	13
WH		10	2	76	71	5.870	3.17	5.87	12.2	44.5	2.30	72	261	271	85	31
WH		13	3	78	62	5.435	4.75	7.15	16.6	42.8	3.80	119	306	449	140	36
WH		14	2	80	74	3.163	3.17	6.33	14.5	42.5	2.94	92	269	347	108	32
WH		15	2	81	79	2.531	3.17	5.06	18.8	55.0	3.04	95	278	359	112	33
WH		16	2	81	82	2.227	3.17	4.45	22.7	77.2	3.24	101	344	382	120	41
WH		17	1	81	89	1.029	1.58	2.06	26.0	90.0	1.71	53	185	202	63	22
WH		18	1	83	92	.886	1.58	1.77	30.8	110.0	1.75	55	195	206	65	23
WH		19	2	83	98	1.617	3.17	4.04	28.9	102.1	3.74	117	412	441	138	49
WH		21	1	83	89	.658	1.58	1.32	42.0	140.0	1.77	55	184	209	65	22
WH		23	1	85	124	.574	1.58	1.72	44.1	190.0	2.43	76	327	287	90	39
WH		26	1	83	117	.430	1.58	1.29	53.5	213.3	2.21	69	275	260	81	32
WH		27	2	86	126	.806	3.17	2.42	61.8	271.2	4.78	149	656	564	176	77
WH		28	1	86	119	.365	1.58	1.10	63.5	273.3	2.23	70	299	263	82	35
WH		29	1	85	123	.341	1.58	1.02	72.7	323.3	2.38	74	330	281	88	39
WH		30	1	85	134	.323	1.58	.97	81.4	386.7	2.52	79	374	297	93	44
WH		31	1	85	124	.302	1.58	.91	83.1	386.7	2.41	75	350	284	89	41
WH		35	1	78	126	.237	1.58	.95	71.1	337.5	2.16	67	320	255	80	38
WH		Totals	26	80	78	30.378	41.18	52.00	27.8	105.3	46.26	1,445	5,475	5,458	1,706	646
BM		12	1	78	50	4.494	3.53	4.49	15.7	50.0	1.87	71	225	221	83	27

TC		TSTNDSUM													Stand Table Summary												
Project													DEMO														
T03N R08W S30 TSALE													T03N R08W S30 TSALE														
Twp		Rge		Sec		Tract		Type			Acres		Plots		Sample Trees			Page:		2							
03N		08W		30		AREA_1		SALE			118.00							Date:		03/19/2015							
																		Time:		3:47:15PM							
S	T	Sample		Av		Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	T o t a l s													
		DBH	Trees	FF 16'	Ht Tot				Net Cu.Ft.	Bd.Ft.				Tons	Cunits	MBF											
BM		Totals	1	78	50	4.494	3.53	4.49	15.7	50.0	1.87	71	225	221	83	27											
RC		48	1	75	95	.093	1.18	.28	150.2	586.7	.98	42	163	116	49	19											
RC		Totals	1	75	95	.093	1.18	.28	150.2	586.7	0.98	42	163	116	49	19											
OH		15	1	81	49	.985	1.18	.98	23.6	60.0	.64	23	59	76	27	7											
OH		Totals	1	81	49	.985	1.18	.98	23.6	60.0	0.64	23	59	76	27	7											
SS		14	1	77	51	1.133	1.18	1.13	22.3	40.0	.66	25	45	77	30	5											
SS		Totals	1	77	51	1.133	1.18	1.13	22.3	40.0	0.66	25	45	77	30	5											
Totals		110		80	79	138.589	189.41	240.64	25.5	96.5	176.57	6131	23,216	20,836	7,234	2,739											

TC		TLOGSTVB		Log Stock Table - MBF																
				Project: DEMO																
T03N R08W S30 TSALE										T03N R08W S30 TSAL										
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page	2											
03N	08W	30	AREA_2	SALE	96.00			Date	3/23/2015											
										Time	7:11:59AM									
Spp	S	So	Gr	Log	Gross	%	Net	%	Net Volume by Scaling Diameter in Inches											
									MBF	Def	MBF	Spc	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19
DF	CO	4	30		5	5.0	4	.5		4										
DF	CO	4	31		2	5.0	1	.2				1								
DF	CO	4	33		8	5.0	8	.9		8										
DF	CO	4	34		2	5.0	1	.2			1									
DF	CO	4	35		3	5.0	2	.3		2										
DF	CO	4	36		4	5.0	4	.4		4										
DF	CO	4	38		3	5.0	2	.3		2										
DF	CO	4	39		7	5.0	6	.7		6										
DF	CO	4	40		29	5.0	28	3.1		23	5									
DF	CO	3	24		12	5.0	11	1.3							11					
DF	Totals				943	5.5	891	37.4		85	99	111	158	131	139	151	17			
WH	CO	2	40		127	5.0	120	19.0					53		35	32				
WH	CO	3	39		11	5.0	10	1.6			10									
WH	CO	3	40		418	5.0	397	62.7			35	156	88	69	23	26				
WH	CO	4	12		2	5.0	2	.3			2									
WH	CO	4	14		7	5.0	7	1.1		1	6									
WH	CO	4	17		2	5.0	2	.4		2										
WH	CO	4	20		9	5.0	8	1.3		8										
WH	CO	4	23		2	5.0	2	.3			2									
WH	CO	4	24		4	5.0	4	.6			4									
WH	CO	4	27		4	5.0	4	.6			4									
WH	CO	4	28		17	5.0	16	2.5		16										
WH	CO	4	30		8	5.0	7	1.2		7										
WH	CO	4	32		25	5.0	24	3.8				24								
WH	CO	4	33		23	5.0	22	3.5		22										
WH	CO	4	40		8	5.0	7	1.2		7										
WH	Totals				667	5.0	634	26.6		65	62	180	88	123	23	61	32			
SL	CO	3	40		24	3.9	23	83.0					14	8						
SL	CO	4	16		1		1	3.4			1									
SL	CO	4	35		2	20.0	1	5.1			1									
SL	CO	4	36		3	16.7	2	8.5			2									
SL	Totals				29	6.0	27	1.1			5		14	8						
DL	CO	3	40		9	5.0	8	80.0			8									
DL	CO	4	26		2	5.0	2	20.0		2										
DL	Totals				11	5.0	11	.4		2	8									
Total All Species					2,568	7.2	2,384	100.0		151	561	450	414	363	172	224	49			

TC TSTNDSUM		Stand Table Summary													
Project DEMO															
T03N R08W S30 TSALE										T03N R08W S30 TSALE					
Twp	Rge	Sec	Tract	Type			Acres		Plots	Sample Trees			Page:	1	
03N	08W	30	AREA_2	SALE			96.00						Date:	03/23/2015	
													Time:	7:14:32AM	
S Spc	T	Sample		Av	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net	Net	T o t a l s		
		DBH	Trees	FF Ht 16' Tot				Net	Net		Cu.Ft.	Bd.Ft.	Tons	Cunits	MBF
DF		9	2	85 77	5.838	2.58	5.84	10.6	40.0	1.77	62	234	170	60	22
DF		11	2	78 85	3.908	2.58	7.82	9.6	40.0	2.15	75	313	206	72	30
DF		12	3	84 86	4.926	3.87	9.85	11.9	46.7	3.35	118	460	322	113	44
DF		13	1	87 115	1.399	1.29	2.80	15.3	65.0	1.22	43	182	118	41	17
DF		14	2	84 84	2.413	2.58	4.83	15.8	55.0	2.17	76	265	208	73	25
DF		15	2	86 113	2.102	2.58	5.25	17.8	78.0	2.66	93	410	256	90	39
DF		16	4	87 123	3.695	5.16	9.24	22.1	96.0	5.82	204	887	559	196	85
DF		17	3	83 97	2.455	3.87	4.91	26.1	95.0	3.65	128	466	351	123	45
DF		18	3	85 114	2.189	3.87	5.11	29.8	118.6	4.34	152	606	416	146	58
DF		19	4	85 128	2.620	5.16	7.21	30.9	126.4	6.34	222	910	608	213	87
DF		20	3	85 117	1.773	3.87	4.73	34.1	136.3	4.60	161	644	442	155	62
DF		21	5	86 123	2.681	6.45	8.04	34.6	144.7	7.93	278	1,164	761	267	112
DF		23	3	86 102	1.341	3.87	2.68	51.2	215.0	3.92	137	577	376	132	55
DF		24	1	85 112	.411	1.29	.82	57.3	200.0	1.34	47	164	129	45	16
DF		25	3	86 132	1.135	3.87	3.41	52.0	234.4	5.04	177	798	484	170	77
DF		26	2	85 120	.700	2.58	2.10	53.6	230.0	3.21	113	483	308	108	46
DF		27	3	84 132	.973	3.87	2.92	59.5	254.4	4.95	174	743	475	167	71
DF		28	1	84 102	.302	1.29	.60	81.6	310.0	1.40	49	187	135	47	18
DF		30	1	83 140	.263	1.29	.79	76.3	350.0	1.71	60	276	164	58	26
DF		Totals	48	84 103	41.124	61.90	88.94	26.7	109.8	67.57	2,371	9,768	6,487	2,276	938
RA		8	3	83 39	11.572	4.04	11.57	4.8	23.3	1.53	56	270	147	54	26
RA		9	4	77 40	12.191	5.39	12.19	6.7	25.0	2.26	82	305	217	79	29
RA		10	7	79 51	17.281	9.43	17.28	10.5	37.1	4.98	181	642	478	174	62
RA		11	4	81 64	8.161	5.39	8.16	14.3	50.0	3.22	117	408	309	112	39
RA		12	5	81 65	8.572	6.73	8.57	18.6	56.0	4.38	159	480	421	153	46
RA		13	12	80 60	17.529	16.16	20.45	18.1	50.7	10.21	371	1,037	980	356	100
RA		14	8	81 69	10.076	10.77	13.85	20.4	61.8	7.76	282	856	745	271	82
RA		15	10	82 75	10.972	13.46	18.65	20.8	68.8	10.67	388	1,284	1,024	372	123
RA		16	7	81 86	6.750	9.43	11.57	26.1	87.5	8.30	302	1,013	797	290	97
RA		17	5	82 77	4.271	6.73	8.54	24.6	84.0	5.77	210	718	554	201	69
RA		18	6	81 65	4.572	8.08	6.86	31.2	85.6	5.88	214	587	565	205	56
RA		19	4	82 70	2.735	5.39	3.42	44.9	118.0	4.22	154	403	405	147	39
RA		20	4	82 76	2.469	5.39	4.32	39.3	112.9	4.66	170	488	448	163	47
RA		21	5	81 73	2.799	6.73	5.60	36.2	111.0	5.57	203	621	535	195	60
RA		22	1	82 60	.510	1.35	1.02	33.2	105.0	.93	34	107	90	33	10
RA		24	1	83 74	.429	1.35	.86	51.4	160.0	1.21	44	137	116	42	13
RA		27	1	81 87	.339	1.35	.68	69.9	225.0	1.30	47	152	125	45	15
RA		Totals	87	81 61	121.228	117.14	153.60	19.6	61.9	82.87	3,013	9,508	7,956	2,893	913
WH		8	1	43 17	7.094	2.48									
WH		10	1	88 25	4.540	2.48	4.54	5.8	20.0	.84	26	91	81	25	9
WH		11	1	86 106	3.752	2.48	7.50	12.1	55.0	2.90	91	413	278	87	40
WH		12	2	86 93	6.306	4.95	12.61	13.4	52.5	5.43	170	662	521	163	64
WH		13	2	87 99	5.373	4.95	10.75	16.2	60.0	5.58	174	645	536	167	62
WH		14	1	87 101	2.316	2.48	4.63	19.9	80.0	2.95	92	371	283	88	36
WH		15	3	85 96	6.053	7.43	12.11	22.4	83.3	8.66	271	1,009	832	260	97
WH		17	1	82 97	1.571	2.48	3.14	31.4	125.0	3.16	99	393	303	95	38
WH		18	3	87 112	4.204	7.43	11.21	28.8	115.0	10.32	322	1,289	991	310	124
WH		19	1	86 121	1.258	2.48	3.77	29.1	116.7	3.52	110	440	337	105	42
WH		23	1	79 115	.858	2.48	1.72	56.3	190.0	3.09	97	326	297	93	31
WH		25	1	86 125	.726	2.48	2.18	55.3	253.3	3.86	120	552	370	116	53
WH		27	1	82 106	.623	2.48	1.25	65.6	265.0	2.62	82	330	251	78	32

TC		TSTNDSUM														Stand Table Summary																	
																Project				DEMO													
T03N R08W S30 TSALE																T03N R08W S30 TSALE																	
Twp		Rge		Sec		Tract		Type				Acres		Plots		Sample Trees		Page:		2													
03N		08W		30		AREA_2		SALE				96.00						Date:		03/23/2015													
																		Time:		7:14:32AM													
S Spc	T	Sample		Av		Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net		T o t a l s	Tons	Cunits	MBF																
		DBH	Trees	FF 16'	Ht Tot				Net Cu.Ft.	Net Bd.Ft.		Cu.Ft. Acre	Bd.Ft. Acre																				
WH		30	1	85	105	.504	2.48	1.01	98.2	425.0	3.17	99	429	304	95	41																	
WH		Totals	20	79	81	45.178	49.52	76.41	22.9	90.9	56.08	1,753	6,949	5,384	1,682	667																	
SL		19	2	77	87	.967	1.90	1.93	34.3	95.0	1.73	66	184	166	64	18																	
SL		22	1	80	103	.361	.95	.72	47.9	140.0	.90	35	101	86	33	10																	
SL		Totals	3	78	91	1.328	2.86	2.66	38.0	107.2	2.62	101	285	252	97	27																	
DL		15	1	86	94	.776	.95	1.55	18.9	75.0	.81	29	116	77	28	11																	
DL		Totals	1	86	94	.776	.95	1.55	18.9	75.0	0.81	29	116	77	28	11																	
Totals			159	81	74	209.634	232.38	323.16	22.5	82.4	209.95	7267	26,626	20,155	6,976	2,556																	

TC TLOGSTVB				Log Stock Table - MBF															
				Project: DEMO															
T03N R08W S30 TSALE										T03N R08W S30 TSAL									
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page	2										
03N	08W	30	AREA_3	SALE	87.00			Date	3/23/2015										
								Time	7:20:44AM										
S Spp	So T	Gr rt	Log de 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	H	4	26	6	10.0	5	1.7			5									
RA	H	4	31	5	10.0	5	1.6			5									
RA	H	4	32	42	16.3	35	11.8				35								
RA	H	4	36	30	13.4	26	8.8				26								
RA	H	4	37	11	10.0	10	3.3			10									
RA	H	4	39	11	10.0	10	3.3			10									
RA	H	4	40	94	11.7	83	28.1			37	36	10							
RA	Totals			337	12.4	295	15.8			109	119	68							
WH	CO	2	40	97	5.0	92	27.5						44	49					
WH	CO	3	32	13	5.0	12	3.5					12							
WH	CO	3	35	11	5.0	10	3.1			10									
WH	CO	3	36	7	5.0	6	1.9			6									
WH	CO	3	37	8	5.0	7	2.2			7									
WH	CO	3	38	9	5.0	9	2.7			9									
WH	CO	3	40	172	6.1	161	47.9			25	89	30	9			7			
WH	CO	4	15	1	5.0	1	.3			1									
WH	CO	4	16	1	5.0	1	.4			1	1								
WH	CO	4	21	2	5.0	2	.6			2									
WH	CO	4	22	9	5.0	8	2.4		2	6									
WH	CO	4	24	3	5.0	3	1.0		3										
WH	CO	4	25	11	5.0	11	3.2			11									
WH	CO	4	26	2	5.0	2	.6			2									
WH	CO	4	27	5	5.0	5	1.4		3	1									
WH	CO	4	30	5	5.0	5	1.5			5									
WH	Totals			356	5.5	337	17.9		8	87	90	42	9	44	49	7			
SS	CO	4	24	5	5.0	4	100.0			4									
SS	Totals			5	5.0	4	.2			4									
DL	CO	3	40	15	5.0	14	71.4					14							
DL	CO	4	40	6	5.0	6	28.6			6									
DL	Totals			21	5.0	20	1.0			6		14							
Total All Species				2,013	6.8	1,876	100.0		167	344	436	387	152	161	192	17	20		

TC		Stand Table Summary														
Project										DEMO						
T03N R08W S30 TSALE													T03N R08W S30 TSALE			
Twp	Rge	Sec	Tract		Type			Acres		Plots	Sample Trees			Page: 1		
03N	08W	30	AREA_3		SALE			87.00						Date: 03/23/2015		
														Time: 7:18:10AM		
S Spc	T	Av						Average Log		Net			T o t a l s			
		Sample DBH	FF Trees	Ht 16'	Tot	Trees/ Acre	BA/ Acre	Logs Acre	Net Cu.Ft.	Net Bd.Ft.	Tons/ Acre	Cu.Ft. Acre	Net Bd.Ft. Acre	Tons	Cunits	MBF
DF		9	4	84	49	12.488	5.52	12.49	6.2	25.0	2.22	78	312	193	68	27
DF		11	3	86	81	6.270	4.14	10.45	11.3	48.0	3.38	118	502	294	103	44
DF		12	8	85	83	14.050	11.03	24.59	12.5	49.3	8.73	306	1,212	759	266	105
DF		13	2	84	98	2.993	2.76	5.99	16.1	67.5	2.75	97	404	239	84	35
DF		14	7	86	98	9.032	9.66	18.06	19.0	78.6	9.77	343	1,419	850	298	123
DF		15	3	87	103	3.372	4.14	6.74	21.6	91.7	4.15	145	618	361	127	54
DF		16	9	82	86	8.891	12.41	16.79	22.9	82.4	10.96	385	1,383	953	335	120
DF		17	6	86	116	5.250	8.28	14.00	23.6	97.5	9.43	331	1,365	820	288	119
DF		18	8	84	105	6.244	11.03	14.83	27.3	102.6	11.52	404	1,522	1,003	352	132
DF		19	3	82	109	2.102	4.14	5.60	26.8	97.5	4.28	150	546	373	131	48
DF		20	5	83	110	3.161	6.90	7.59	32.4	125.8	7.01	246	955	610	214	83
DF		21	4	79	96	2.294	5.52	5.16	32.1	126.7	4.72	166	654	411	144	57
DF		22	2	85	126	1.045	2.76	2.61	41.0	170.0	3.05	107	444	265	93	39
DF		23	3	85	118	1.434	4.14	3.82	42.0	175.0	4.59	161	669	399	140	58
DF		24	5	84	127	2.195	6.90	6.15	48.3	201.4	8.47	297	1,238	737	258	108
DF		25	1	76	94	.405	1.38	.81	58.9	175.0	1.36	48	142	118	41	12
DF		26	2	85	127	.748	2.76	1.87	63.7	260.0	3.40	119	486	295	104	42
DF		27	2	81	106	.694	2.76	1.39	72.7	252.5	2.88	101	350	250	88	30
DF		29	1	81	91	.301	1.38	.60	77.3	260.0	1.32	46	156	115	40	14
DF		38	1	87	146	.175	1.38	.53	134.8	730.0	2.02	71	384	176	62	33
DF		Totals	79	84	90	83.143	108.97	160.07	23.2	92.2	105.99	3,719	14,762	9,221	3,235	1,284
WH		10	3	84	73	7.587	4.14	10.12	10.9	45.0	3.53	110	455	307	96	40
WH		11	2	84	59	4.180	2.76	2.09	17.1	60.0	1.15	36	125	100	31	11
WH		12	1	86	86	1.756	1.38	3.51	14.8	60.0	1.66	52	211	144	45	18
WH		13	2	87	93	2.993	2.76	5.99	19.0	85.0	3.64	114	509	316	99	44
WH		14	4	85	71	5.161	5.52	7.74	19.2	75.0	4.78	149	581	416	129	51
WH		15	1	88	82	1.124	1.38	2.25	19.9	70.0	1.43	45	157	124	39	14
WH		17	1	78	81	.875	1.38	1.75	22.4	75.0	1.25	39	131	109	34	11
WH		18	2	80	70	1.561	2.76	2.34	34.1	90.0	2.55	80	211	222	69	18
WH		21	3	84	111	1.720	4.14	4.01	42.2	158.6	5.42	169	637	471	147	55
WH		24	2	83	102	.878	2.76	1.76	61.7	230.0	3.47	108	404	302	94	35
WH		28	2	77	118	.645	2.76	1.61	70.4	250.0	3.63	114	403	316	99	35
WH		30	1	78	153	.281	1.38	.84	37.5	190.0	1.01	32	160	88	28	14
WH		40	1	76	151	.158	1.38	.16	117.0	560.0	.59	18	89	52	16	8
WH		Totals	25	84	79	28.920	34.48	44.17	24.1	92.2	34.10	1,065	4,072	2,967	927	354
RA		8	1	80	36	3.951	1.38	3.95	4.1	20.0	.44	16	79	39	14	7
RA		9	1	71	56	3.122	1.38	3.12	6.7	20.0	.57	21	62	50	18	5
RA		11	2	75	78	4.180	2.76	4.18	18.7	60.0	2.14	78	251	187	68	22
RA		12	3	78	87	5.269	4.14	7.02	17.5	57.5	3.38	123	404	294	107	35
RA		13	1	80	104	1.619	1.38	3.24	14.3	50.0	1.27	46	162	111	40	14
RA		14	5	78	92	6.451	6.90	11.61	19.4	62.2	6.20	225	723	539	196	63
RA		15	5	82	70	5.620	6.90	6.74	23.9	71.7	4.44	161	483	386	140	42
RA		16	4	77	86	3.951	5.52	6.92	20.2	67.1	3.84	140	464	334	122	40
RA		17	4	80	74	3.500	5.52	6.13	26.5	74.3	4.45	162	455	387	141	40
RA		18	2	76	79	1.561	2.76	2.34	38.8	103.3	2.50	91	242	217	79	21
RA		19	4	74	83	2.802	5.52	4.90	33.2	91.4	4.48	163	448	390	142	39
RA		Totals	32	78	76	42.027	44.14	60.16	20.4	62.7	33.73	1,227	3,774	2,935	1,067	328
DL		15	1	84	107	1.124	1.38	2.25	25.1	105.0	1.55	57	236	135	49	21
DL		Totals	1	84	107	1.124	1.38	2.25	25.1	105.0	1.55	57	236	135	49	21

TC		TSTNDSUM												Stand Table Summary																	
												Project				DEMO															
T03N R08W S30 TSALE												T03N R08W S30 TSALE																			
Twp		Rge		Sec		Tract		Type				Acres		Plots		Sample Trees		Page:		2											
03N		08W		30		AREA_3		SALE				87.00						Date:		03/23/2015											
																		Time:		7:18:10AM											
S		Av							Average Log		Net		Net		T o t a l s																
T		Sample		FF	Ht	Trees/	BA/	Logs	Net	Net	Tons/	Cu.Ft.	Bd.Ft.	Tons		Cunits		MBF													
Spc		DBH	Trees	16'	Tot	Acre	Acre	Acre	Cu.Ft.	Bd.Ft.	Acre	Acre	Acre																		
SS		8	1	77	51	3.951	1.38																								
SS		12	1	80	55	1.756	1.38	1.76	11.8	30.0	.54	21	53	47	18	5															
SS		Totals		2	78	52	5.708	2.76	1.76	11.8	30.0	0.54	21	53	47	18	5														
OC		15	1	82	72	1.124	1.38																								
OC		Totals		1	82	72	1.124	1.38																							
Totals				140	82	83	162.045	193.10	268.40	22.7	85.3	175.92	6088	22,896	15,305	5,296	1,992														

TC TLOGSTVB				Log Stock Table - MBF															
				Project: DEMO															
T03N R08W S30 TSALE										T03N R08W S30 TSAL									
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page	2										
03N	08W	30	AREA_4	SALE	93.00			Date	3/23/2015										
								Time	7:29:13AM										
S Spp	So T	Gr rt	Log de Len	Gross	%	Net	%	Net Volume by Scaling Diameter in Inches											
				MBF	Def	MBF	Spc	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
RA	H	4	23	7	10.0	7	3.0			7									
RA	H	4	26	3	10.0	3	1.4			3									
RA	H	4	40	56	18.6	45	20.2			15	30								
RA	H	3	32	21	10.0	19	8.6					19							
RA	H	4	17	13	10.0	11	5.0			11									
RA	H	4	20	4	10.0	3	1.4			3									
RA	H	4	21	6	10.0	6	2.5			6									
RA	H	4	32	18	10.0	17	7.4				17								
RA	Totals			260	13.8	225	15.1			59	47	105		13					
GF	CO	2	40	43		43	87.5							43					
GF	CO	3	32	3		3	5.4				3								
GF	CO	3	38	3		3	7.1			3									
GF	Totals			49		49	3.3			3	3			43					
SL	CO	2	40	14	6.9	13	90.0						13						
SL	CO	4	16	1		1	10.0			1									
SL	Totals			16	6.3	15	1.0			1			13						
DL	CO	3	40	10	5.0	10	100.0			10									
DL	Totals			10	5.0	10	.7			10									
RC	CO	3	36	7		7	100.0			7									
RC	Totals			7		7	.5			7									
Total All Species				1,598	7.1	1,484	100.0		242	138	161	380	158	251	132	22			

Stand Table Summary															
TC		TSTNDSUM													
Project															
DEMO															
T03N R08W S30 TSALE															
T03N R08W S30 TSALE															
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page:	2						
03N	08W	30	AREA_4	SALE	93.00			Date:	03/23/2015						
								Time:	7:30:24AM						
S Spc	T	Sample		Av	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net	Net	T o t a l s		
		DBH	Trees	FF 16'				Ht Tot	Net Cu.Ft.		Net Bd.Ft.	Tons	Cunits	MBF	
RC		17	1	82 51	1.254	1.98	1.25	33.2	60.0	.98	42	75	91	39	7
RC		Totals	1	82 51	1.254	1.98	1.25	33.2	60.0	0.98	42	75	91	39	7
Totals			85	84 65	145.540	175.67	211.84	22.3	79.8	135.75	4723	16,895	12,625	4,392	1,571

TC TLOGSTVB				Log Stock Table - MBF																
				Project: DEMO																
T03N R08W S30 TSALE												T03N R08W S30 TSAL								
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page	2											
03N	08W	30	AREA_5	SALE	92.00			Date	3/23/2015											
								Time	7:33:14AM											
Spp	T	S	So	Gr	Log	Gross	%	Net	%	Net Volume by Scaling Diameter in Inches										
										MBF	Def	MBF	Spc	2-3	4-5	6-7	8-9	10-11	12-13	14-15
RA					Totals	214	14.1	184	19.5				95	36	8	19	20	6		
SS		CO	3	32		12	5.0	11	42.2					11						
SS		CO	4	22		10	5.0	9	34.1		9									
SS		CO	4	26		7	5.0	6	23.7		6									
SS					Totals	28	5.0	27	2.8		16		11							
SL		CO	2	32		9		9	35.6						9					
SL		CO	3	28		2	14.3	1	5.3					1						
SL		CO	3	40		15	24.3	12	47.0									12		
SL		CO	4	29		3		3	12.1		3									
SL					Totals	29	13.8	25	2.6		3		1		9			12		
WH		CO	2	32		11	5.0	11	60.0								11			
WH		CO	3	40		7	15.6	6	32.5					6						
WH		CO	4	22		1	5.0	1	7.5				1							
WH					Totals	20	8.7	18	1.9				1	6			11			
Total All Species						1,025	8.1	942	100.0		125	158	109	149	142	139	80	41		

TC		TSTNDSUM															Stand Table Summary														
Project										DEMO																					
T03N R08W S30 TSALE															T03N R08W S30 TSALE																
Twp		Rge		Sec		Tract		Type			Acres		Plots		Sample Trees			Page:		1											
03N		08W		30		AREA_5		SALE			92.00							Date:		03/23/2015											
																		Time:		7:34:22AM											
S Spc	T	Sample		FF 16'	Av Ht Tot	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	T o t a l s																	
		DBH	Trees						Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF															
DF		9	2	84	52	5.992	2.65	5.99	6.9	30.0	1.18	41	180	109	38	17															
DF		10	1	83	42	2.427	1.32	2.43	7.8	30.0	.54	19	73	50	17	7															
DF		12	2	86	72	3.370	2.65	5.06	12.6	43.3	1.81	64	219	167	58	20															
DF		13	3	86	55	4.308	3.97	4.31	18.5	46.7	2.27	80	201	209	73	18															
DF		14	3	87	48	3.714	3.97	2.48	22.4	60.0	1.58	55	149	145	51	14															
DF		15	6	86	73	6.471	7.94	11.86	17.7	65.5	5.98	210	777	550	193	71															
DF		16	6	86	73	5.687	7.94	10.43	19.0	70.9	5.64	198	739	518	182	68															
DF		17	5	87	83	4.198	6.62	8.40	24.1	91.0	5.77	202	764	531	186	70															
DF		18	3	86	85	2.247	3.97	4.49	27.4	96.7	3.51	123	434	323	113	40															
DF		19	5	85	77	3.361	6.62	5.38	31.3	96.2	4.80	168	518	441	155	48															
DF		20	3	87	92	1.820	3.97	3.03	34.0	112.0	2.94	103	340	270	95	31															
DF		21	3	87	84	1.651	3.97	3.30	38.2	125.0	3.59	126	413	331	116	38															
DF		22	5	87	94	2.507	6.62	5.01	45.6	160.0	6.51	229	802	599	210	74															
DF		23	5	87	89	2.294	6.62	4.59	48.6	176.0	6.36	223	807	585	205	74															
DF		24	2	86	92	.843	2.65	1.69	53.9	197.5	2.59	91	333	238	84	31															
DF		25	2	86	90	.777	2.65	1.16	34.9	116.7	1.16	41	136	107	37	13															
DF		26	1	87	96	.359	1.32	.72	67.4	255.0	1.38	48	183	127	44	17															
DF		27	1	88	93	.333	1.32	.67	69.2	260.0	1.31	46	173	121	42	16															
DF		29	1	86	96	.289	1.32	.58	80.0	305.0	1.32	46	176	121	42	16															
DF		32	1	85	93	.237	1.32	.47	93.9	315.0	1.27	44	149	117	41	14															
DF		33	1	86	134	.223	1.32	.67	93.3	470.0	1.78	62	314	164	57	29															
DF		Totals	61	86	71	53.106	80.74	82.71	26.8	95.3	63.28	2,220	7,880	5,822	2,043	725															
RA		10	3	82	74	7.280	3.97	7.28	10.7	43.3	2.14	78	315	197	72	29															
RA		11	5	83	75	10.027	6.62	10.03	11.4	42.0	3.14	114	421	289	105	39															
RA		13	4	84	53	5.744	5.29	4.31	14.3	50.0	1.70	62	215	156	57	20															
RA		14	1	85	55	1.238	1.32	1.24	16.2	40.0	.55	20	50	51	18	5															
RA		15	4	84	60	4.314	5.29	4.31	25.8	65.0	3.06	111	280	282	102	26															
RA		16	5	84	56	4.740	6.62	4.74	28.8	66.0	3.76	137	313	346	126	29															
RA		18	1	84	60	.749	1.32	.75	33.3	70.0	.69	25	52	63	23	5															
RA		21	2	84	72	1.101	2.65	1.65	43.8	146.7	1.99	72	242	183	67	22															
RA		24	1	85	71	.421	1.32	.84	48.1	150.0	1.11	41	126	103	37	12															
RA		26	2	82	66	.718	2.65	1.08	56.4	193.3	1.67	61	208	154	56	19															
RA		Totals	28	83	66	36.331	37.06	36.23	19.9	61.4	19.81	720	2,224	1,822	663	205															
SS		8	3	78	31	11.375	3.97	3.79	5.3	20.0	.53	20	76	48	19	7															
SS		10	1	79	43	2.427	1.32	2.43	8.9	30.0	.56	22	73	51	20	7															
SS		13	1	87	78	1.436	1.32	2.87	14.1	55.0	1.05	40	158	97	37	15															
SS		Totals	5	79	37	15.237	6.62	9.09	9.0	33.7	2.14	82	307	197	76	28															
SL		15	1	74	37	1.079	1.32	1.08	19.8	30.0	.55	21	32	51	20	3															
SL		22	1	84	59	.501	1.32	.50	57.0	190.0	.74	29	95	68	26	9															
SL		32	1	87	85	.237	1.32	.47	96.0	295.0	1.18	46	140	109	42	13															
SL		Totals	3	78	49	1.817	3.97	2.05	46.5	130.2	2.48	95	267	228	88	25															
WH		17	1	85	59	.840	1.32	.84	38.5	80.0	1.03	32	67	95	30	6															
WH		25	1	84	66	.388	1.32	.78	47.6	180.0	1.18	37	140	109	34	13															
WH		Totals	2	85	61	1.228	2.65	1.62	42.9	128.0	2.22	69	207	204	64	19															
Totals			99	84	64	107.720	131.03	131.69	24.2	82.7	89.93	3188	10,884	8,273	2,933	1,001															

TC TLOGSTVB				Log Stock Table - MBF																		
				Project: DEMO																		
T03N R08W S30 TSALE										T03N R08W S30 TSAL												
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page	1													
03N	08W	30	AREA_6	SALE	81.00			Date	3/23/2015													
										Time	7:37:16AM											
Spp	T	S	So	Gr	Log	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		CO	2	32		19	5.0	18	3.1					11	7							
DF		CO	2	40		246	5.9	232	39.2					41	62	107	22					
DF		CO	3	32		43	8.6	39	6.7				31	8								
DF		CO	3	38		3	5.0	3	.5			3										
DF		CO	3	40		183	6.9	171	28.9			28	70	73								
DF		CO	4	17		4	5.0	4	.6		3	1										
DF		CO	4	18		1	5.0	1	.2			1										
DF		CO	4	19		2	5.0	2	.4		2											
DF		CO	4	20		5	5.0	4	.7		4											
DF		CO	4	21		5	5.0	4	.7		4											
DF		CO	4	22		12	5.0	12	2.0		10		1									
DF		CO	4	23		4	5.0	4	.6		2	2										
DF		CO	4	24		10	5.0	9	1.6		8		1									
DF		CO	4	27		13	5.0	12	2.1		12											
DF		CO	4	28		5	5.0	4	.8		4											
DF		CO	4	29		3	5.0	3	.5		3											
DF		CO	4	30		5	5.0	5	.9		5											
DF		CO	4	31		3	5.0	2	.4		2											
DF		CO	4	33		12	28.7	9	1.5		9											
DF		CO	4	34		9	5.0	9	1.5		9											
DF		CO	4	36		2	5.0	2	.3		2											
DF		CO	4	38		10	5.0	10	1.7		10											
DF		CO	4	39		9	5.0	9	1.5		9											
DF		CO	4	40		22	5.0	21	3.6		21											
DF		Totals				632	6.6	590	68.2		121	35	103	81	52	69	107	22				
RA		H	2	32		12	10.0	11	4.0					11								
RA		H	2	40		15	10.0	14	5.1					14								
RA		H	3	18		11	10.0	10	3.8					10								
RA		H	3	20		10	10.0	9	3.4					9								
RA		H	3	26		12	18.2	10	3.7					10								
RA		H	3	32		27	19.3	22	8.2					22								
RA		H	3	40		85	12.2	75	28.0					75								
RA		H	4	18		6	10.0	5	1.9			5										
RA		H	4	20		7	28.0	5	1.9				5									
RA		H	4	21		5	10.0	5	1.7			5										
RA		H	4	23		3	10.0	2	.9			2										
RA		H	4	25		4	10.0	3	1.3			3										
RA		H	4	26		3	10.0	3	1.1			3										
RA		H	4	27		7	10.0	6	2.4			6										
RA		H	4	28		2	10.0	2	.6			2										
RA		H	4	36		10	10.0	9	3.3				9									
RA		H	4	40		87	12.1	76	28.6			46	30									
RA		Totals				306	12.8	267	30.8			72	44	126	24							
WH		CO	4	28		6	5.0	6	100.0		6											
WH		Totals				6	5.0	6	.6		6											
RC		CO	4	37		3		3	100.0		3											
RC		Totals				3		3	.4		3											
Total All Species						947	8.6	866	100.0		129	107	148	207	76	69	107	22				

TC		TSTNDSUM													Stand Table Summary																								
															Project					DEMO																			
T03N R08W S30 TSALE															T03N R08W S30 TSALE																								
Twp		Rge		Sec		Tract		Type			Acres		Plots		Sample Trees			Page:		1																			
03N		08W		30		AREA_6		SALE			81.00							Date:		03/23/2015																			
																		Time:		7:38:42AM																			
S	T	Sample		FF	Ht	Av	Trees/	BA/	Logs	Average Log		Net	Net	Tons/	Cu.Ft.	Net	Bd.Ft.	T o t a l s																					
		DBH	Trees							16'	Tot							Acre	Acre	Acre	Net	Net	Cu.Ft.	Bd.Ft.	Tons	Cunits	MBF												
DF		8	1	87	56		5.371	1.88	5.37		5.4	30.0		.83	29	161		68	24	13																			
DF		10	4	84	59		13.751	7.50	13.75		9.1	32.5		3.57	125	447		289	101	36																			
DF		11	3	86	52		8.523	5.63	8.52		12.0	36.7		2.93	103	313		237	83	25																			
DF		12	3	87	70		7.162	5.63	7.16		16.5	53.3		3.36	118	382		272	95	31																			
DF		13	2	86	77		4.068	3.75	8.14		11.7	42.5		2.71	95	346		219	77	28																			
DF		14	1	87	79		1.754	1.88	3.51		14.8	50.0		1.48	52	175		120	42	14																			
DF		15	1	86	69		1.528	1.88	3.06		15.0	55.0		1.30	46	168		106	37	14																			
DF		16	5	87	82		6.714	9.38	13.43		20.3	73.0		7.77	273	980		630	221	79																			
DF		17	1	87	90		1.190	1.88	2.38		24.5	90.0		1.66	58	214		135	47	17																			
DF		18	3	88	90		3.183	5.63	6.37		28.3	103.3		5.13	180	658		415	146	53																			
DF		19	1	87	90		.952	1.88	1.90		33.1	105.0		1.80	63	200		146	51	16																			
DF		20	1	87	83		.859	1.88	1.72		34.0	115.0		1.67	58	198		135	47	16																			
DF		21	2	87	102		1.559	3.75	3.12		30.9	110.0		2.74	96	343		222	78	28																			
DF		22	1	87	114		.710	1.88	1.42		47.4	175.0		1.92	67	249		155	55	20																			
DF		23	2	86	84		1.300	3.75	1.95		43.2	130.0		2.40	84	253		194	68	21																			
DF		24	2	87	127		1.194	3.75	2.39		57.8	227.5		3.93	138	543		319	112	44																			
DF		25	1	88	101		.550	1.88	1.10		52.3	200.0		1.64	58	220		133	47	18																			
DF		27	1	87	110		.472	1.88	1.41		53.0	240.0		2.14	75	340		173	61	28																			
DF		28	2	87	117		.877	3.75	2.19		66.3	286.0		4.14	145	627		336	118	51																			
DF		29	3	87	105		1.226	5.63	2.86		67.8	297.1		5.53	194	850		448	157	69																			
DF		Totals		40	86	72	62.944	75.00	91.75		22.4	83.6		58.65	2,058	7,667		4,751	1,667	621																			
RA		10	1	77	52		3.438	1.88																															
RA		11	2	85	74		5.682	3.75	2.84		17.1	60.0		1.34	49	170		108	39	14																			
RA		12	1	85	103		2.387	1.88	4.77		13.8	55.0		1.81	66	263		147	53	21																			
RA		13	2	84	68		4.068	3.75	4.07		23.1	65.0		2.58	94	264		209	76	21																			
RA		14	4	84	54		7.016	7.50	7.02		18.0	62.5		3.48	126	438		282	102	36																			
RA		15	4	86	75		6.112	7.50	9.17		24.0	81.7		6.04	220	749		490	178	61																			
RA		16	5	86	75		6.714	9.38	10.74		25.1	87.5		7.42	270	940		601	218	76																			
RA		17	1	85	61		1.190	1.88	1.19		38.5	80.0		1.26	46	95		102	37	8																			
RA		18	2	86	74		2.122	3.75	4.24		26.2	85.0		3.06	111	361		248	90	29																			
RA		21	2	85	75		1.559	3.75	3.12		36.8	122.5		3.15	115	382		256	93	31																			
RA		Totals		24	84	70	40.288	45.00	47.16		23.2	77.7		30.15	1,096	3,663		2,442	888	297																			
WH		12	1	86	52		2.387	1.88	2.39		11.1	30.0		.85	27	72		69	22	6																			
WH		Totals		1	86	52	2.387	1.88	2.39		11.1	30.0		0.85	27	72		69	22	6																			
RC		19	1	80	55		.952	1.88	.95		38.9	40.0		.87	37	38		71	30	3																			
RC		Totals		1	80	55	.952	1.88	.95		38.9	40.0		0.87	37	38		71	30	3																			
Totals				66	85	71	106.572	123.75	142.25		22.6	80.4		90.52	3218	11,439		7,332	2,606	927																			



"STEWARDSHIP IN FORESTRY"

High N Dry

Volume Summary

Area 1-Modified Clearcut				
118 acres				
SPECIES	Cruised Net MBF/ Acre	Cruised Net MBF	Hidden D&B	Net Sale MBF
Douglas-fir	7.3	867	5%	824
Hemlock	5.5	646	5%	615
Spruce	0.0	5	5%	5
Alder	9.9	1168	10%	1051
Big leaf maple	0.2	27	10%	24
TOTAL	23.0	2713		2519

Area 2-Modified Clearcut				
96 acres				
SPECIES	Cruised Net MBF/ Acre	Cruised Net MBF	Hidden D&B	Net Sale MBF
Douglas-fir	9.8	938	5%	892
Hemlock	6.9	667	5%	634
Alder	9.5	913	10%	821
TOTAL	26.2	2518		2347

Area 3-Modified Clearcut				
87 acres				
SPECIES	Cruised Net MBF/ Acre	Cruised Net MBF	Hidden D&B	Net Sale MBF
Douglas-fir	14.8	1284	5%	1220
Hemlock	4.1	354	5%	337
Spruce	0.1	5	5%	4
Alder	3.8	328	10%	295
TOTAL	22.7	1971		1856

Area 4-Modified Clearcut				
93 acres				
SPECIES	Cruised Net MBF/ Acre	Cruised Net MBF	Hidden D&B	Net Sale MBF
Douglas-fir	10.2	947	5%	900
Hemlock	3.2	293	5%	279
Alder	2.7	250	10%	225
TOTAL	16.0	1490		1404

Area 5-Modified Clearcut				
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"STEWARDSHIP IN FORESTRY"

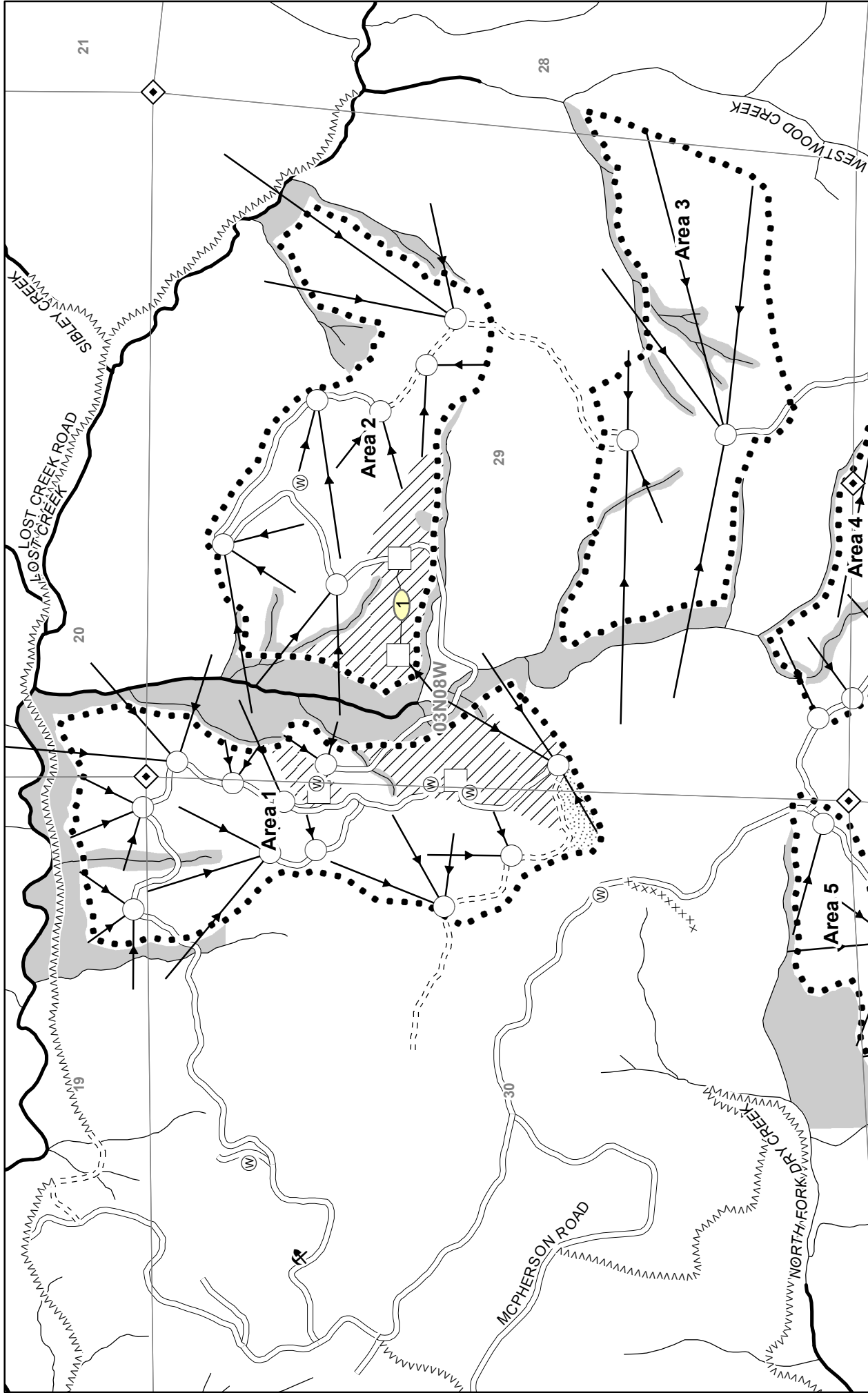
High N Dry

Volume Summary

92 acres				
SPECIES	Cruised Net	Cruised Net	Hidden	Net Sale
	MBF/ Acre	MBF	D&B	MBF
Douglas-fir	7.9	725	5%	689
Hemlock	0.2	19	5%	18
Spruce	0.3	28	5%	27
Alder	2.2	205	10%	183
TOTAL	10.6	977		917

Area 6-Modified Clearcut				
81 acres				
SPECIES	Cruised Net	Cruised Net	Hidden	Net Sale
	MBF/ Acre	MBF	D&B	MBF
Douglas-fir	7.7	621	5%	590
Hemlock	0.1	6	5%	6
Alder	3.7	297	10%	267
TOTAL	11.4	924		863

TOTAL SALE VOLUME			567	acres
SPECIES	Cruised Net (MBF)		Net Sale (MBF)	
Douglas-fir	5382		5114	
Hemlock	1985		1888	
Spruce	38		36	
Red alder	3161		2842	
Big leaf maple	27		24	
TOTAL	10593		9904	



LOGGING PLAN

Timber Sale Contract No. 341-15-84
HIGH N DRY

Portions of Sections 19, 20, 28,
29, 30, 31, 32 and 33
T3N, R8W, W.M.,
Tillamook County, Oregon

1,000 0 1,000 Feet

Tillamook District GIS (3/11/2015)
This product is for informational use and may
not have been prepared or suitable for
legal, engineering, or surveying purposes.

Area	Type of Operation	Gross Acres	Net Acres
1	Modified Clearcut	160	118
2	Modified Clearcut	117	96
3	Modified Clearcut	105	87
4	Modified Clearcut	116	93
5	Modified Clearcut	133	92
6	Modified Clearcut	111	81
Total		742	567

Legend:

Rock source

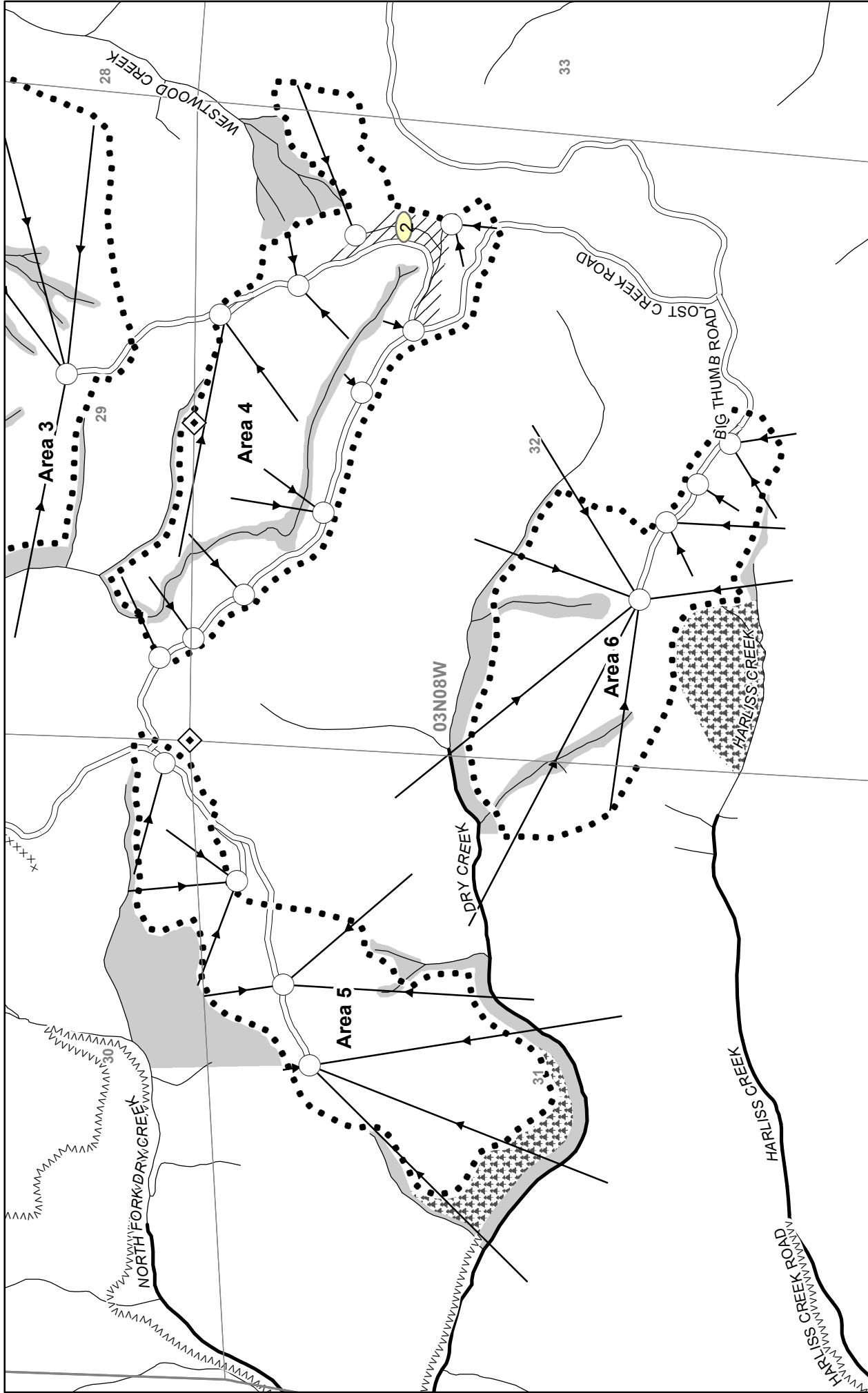
- Stock pile
- Waste area
- Bridge
- Gate
- Survey corner
- Domestic water supply intake
- Truck turn-around
- Helicopter landing zone
- Cultural site

Restricted area

- Area boundary
- Sale boundary
- Ownership boundary
- Fish stream
- Non-fish stream
- Unsurfaced road
- Surfaced road
- Paved road
- Abandoned road

Swing road

- Non-project road
- Blocked road
- OHV trail
- Non-motorized trail
- Transmission line
- Railroad
- Cable yarding
- Tractor Landing
- Yarder Landing



LOGGING PLAN

Timber Sale Contract No. 341-15-84
HIGH N DRY
Portions of Sections 19, 20, 28, 29, 30, 31, 32 and 33
T3N, R8W, W.M.,
Tillamook County, Oregon

1,000 0 1,000 Feet

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Area	Type of Operation	Gross Acres	Net Acres
1	Modified Clearcut	160	118
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3	Modified Clearcut	105	87
4	Modified Clearcut	116	93
5	Modified Clearcut	133	92
6	Modified Clearcut	111	81
Total		742	567

Legend:

- Rock source:** Rock source, Stock pile, Waste area, Bridge, Gate, Survey corner, Domestic water supply intake, Truck turn-around, Helicopter landing zone, Cultural site.
- Buffer:** Buffer, Non-required thinning, Cable yarding, Ground yarding, Helicopter yarding, Downhill yarding, Green tree retention area.
- Restricted area:** Restricted area, Area boundary, Sale boundary, Ownership boundary, Fish stream, Non-fish stream, Unsurfaced road, Surfaced road, Paved road, Abandoned road.
- Swing road:** Swing road, Non-project road, Blocked road, OHV trail, Non-motorized trail, Transmission line, Railroad, Cable yarding, Tractor Landing, Yarder Landing.