

District: Astoria

Date:

October 15, 2009

cost summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$943,117.35	\$39,822.12	\$982,939.47
		Project Work:	\$(94,955.00)
		Advertised Value:	\$887,984.47

1 10/15/09



"STEWARDSHIP IN FORESTRY"

District: Astoria

Date:

October 15, 2009

timber description

Location: Portions of Section 24, T5N, R6W, W.M., Clatsop County, Oregon.

Stand Stocking:

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	23	0	97
Red Cedar	14	0	97
Alder (Red)	14	0	96

Volume by Grade	2S	3S	48	Camprur	Total
Douglas - Fir	4,604	808	65	0	5,477
Red Cedar	7	6	4	0	17
Alder (Red)	0	0	0	117	117
Total	4,611	814	69	117	5,611

2 10/15/09



"STEWARDSHIP IN FORESTRY"

District: Astoria

Date: October 15, 2009

comments: Pond Values Used: 3rd Quarter Calendar Year 2009.

Log Markets: Mist, Clatskanie, Tillamook, Forest Grove.

Western Hemlock and Other Conifers Stumpage Price = Pond Value minus Logging Cost \$96.16/MBF = \$275/MBF - \$178.84/MBF

SCALING COST ALLOWANCE = \$5.00/MBF

FUEL COST ALLOWANCE = \$3.00/Gallon

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

Other Costs (with Profit & Risk to be added): 100% Branding and Painting: \$1MBF x 5,611 MBF = \$5,611 Additional Log Loader Piling: 3hr. x \$65/hr x 3 landings = \$585 Log Loader Slash Piling: 8 hrs x \$87.5/hr = \$700 Material cost for Slash Piles: 13 piles x \$5/pile = \$65 TOTAL Other Costs (with Profit and Risk to be added) = \$6,961

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

10/15/09 3



"STEWARDSHIP IN FORESTRY"

District: Astoria October 15, 2009 Date:

logging conditions

combination#: 1

Douglas - Fir

12.84%

Red Cedar

17.00% 17.00%

Alder (Red) yarding distance: Short (400 ft)

downhill yarding:

logging system:

Shovel

Process: Stroke Delimber

Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF

tree size: loads / day:

10.0

bd. ft / load:

4.500

cost / mbf:

\$31.96

machines:

Stroke Delimber (B)

combination#: 2

Douglas - Fir

62.68%

Red Cedar

83.00%

Alder (Red)

83.00%

logging system:

yarding distance: Medium (800 ft) Cable: Medium Tower >40 - <70 Process: Stroke Delimber

downhill yarding:

tree size:

Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF

loads / day:

10.0 bd. ft / load: 4.500

cost / mbf:

\$74.31

machines:

Log Loader (A) Stroke Delimber (A)

Tower Yarder (Medium)

combination#: 3

Douglas - Fir

9.06%

yarding distance: Medium (800 ft)

downhill yarding:

logging system:

Shovel

Process: Manual Falling/Delimbing

4,500

tree size:

Mature / Partial Cut (900 Bft/tree), 3-5 logs/MBF bd. ft / load:

loads / day:

10.0 \$55.66

cost / mbf: machines:

Shovel Logger

combination#: 4

Douglas - Fir

15.43%

varding distance: Medium (800 ft)

downhill yarding:

logging system: tree size:

Mature / Partial Cut (900 Bft/tree), 3-5 logs/MBF

loads / dav:

6.0 bd. ft / load:

cost / mbf:

4.800

No

\$120.14

machines:

Log Loader (A)

Tower Yarder (Medium)

10/15/09

4



"STEWARDSHIP IN FORESTRY"

District:

Astoria

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logging costs

Operating Seasons:

2.00

Profit Risk:

14.00%

Project Costs:

\$94,955.00

Other Costs (P/R):

\$6,961.00

Slash Disposal:

\$0.00

Other Costs:

\$0.00

Miles of Road

Road Maintenance:

\$5.01

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

Hauling Costs

Species	\$ / MBF	Trips/Day	MBF / Load
Douglas - Fir	\$0.00	2.0	4.5
Red Cedar	\$0.00	2.0	4.0
Alder (Red)	\$0.00	2.0	3.5

10/15/09 5



"STEWARDSHIP IN FORESTRY"

District:

Astoria

Date:

October 15, 2009

logging costs breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
Douglas -	Fir								
\$74.25	\$5.16	\$1.56	\$70.28	\$1.24	\$21.35	\$0.00	\$5.00	\$0.00	\$178.84
Red Ceda	r								
\$67.11	\$5.16	\$1.56	\$79.06	\$1.24	\$21.58	\$0.00	\$5.00	\$0.00	\$180.71
Alder (Red	d)								
\$67.11	\$5.21	\$1.56	\$91.23	\$1.24	\$23.29	\$0.00	\$5.00	\$0.00	\$194.64

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$349.30	\$170.46	\$0.00
Red Cedar	\$0.00	\$740.00	\$559.29	\$0.00
Alder (Red)	\$0.00	\$535.00	\$340.36	\$0.00

10/15/09 6



"STEWARDSHIP IN FORESTRY"

District:

Astoria

Date:

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summary

Amortized

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

Unamortized

Specie	MBF 5.477	Value \$170.46	Total \$933,609.42
Douglas - Fir Red Cedar	17	\$559.29	\$9,507.93
Alder (Red)	117	\$340.36	\$39,822.12

Gross Timber Sale Value

Recovery:

\$982,939.47

Prepared by: Derek Bangs

Phone: 503-325-5451

7 10/15/09

Road Maintenance Cost Summary

Buck Ranch 26-Jun-09 D.Bangs Safe: Date: By:

5,611 \$5.01 MBF: \$\$/MBF:

1		Move-in	į		í				,		
lype	Equipmentrationale	Rate	Salli	Sinon	Kate	Cost	í	Product	Production Kates		
Progressive	Grader 14G	\$675	_	12	\$93	\$1,791	Production Rates	Miles/day	Distance(miles)	Days	_
Operations	Dump Truck 12CY x 2	\$141	7	16	\$73	\$1,450	Grader	2.5	3.0	1.2	
1st Entry	FE Loader C966	\$675	-	∞	\$77	\$1,291					-
Progressive	Grader 14G	\$29\$	-	12	\$93	\$1,791	Production Rates	Miles/day	Distance(miles)	Days	
Operations	Dump Truck 12CY x 2	\$141	7	16	\$73	\$2,336	Grader	2.5	3.0	1.2	
2nd Entry	FE Loader C966	\$675	_	∞	\$77	\$1,291					
									-		
Final Road	Grader 14G	\$675	<u>_</u>	22	\$93	\$5,945	Production Rates	Miles/day	Distance(miles)	Days	_
Maintenance	Dump Truck 12CY x 4	\$141	4	40	\$73	\$3,484	Grader	1.5	8.5	5.7	
	FE Loader C966	\$675	<u>_</u>	10	\$77	\$1,445	Vibratory Roller*	1.5	8.5	5.7	
	Vibratory Roller*	\$675	_	20	\$72	\$4,275					
	Water Truck 2,500 gallon	\$165	<u>_</u>	30	\$83	\$2,655					
	Labor			10	\$37	\$370					
					•		-				
Total							\$28,124				

*Final Road Maintenance Only

TC PS	TATS					DJECT ROJECT		ISTICS JCK			PAGE DATE	1 6/18/2009
ГWР	RGE	SC	TRACT	7	ГҮРЕ		A	CRES	PLOTS	TREES	CuFt	BdFt
05N	06	24	AREA1		ГАКЕ			140.00	121	605	1	W
05N	06W	24	AREA2		ΓAKE							
05N	06W	24	ROW	<u>I</u>	R/W							
						TREES		ESTIMATED TOTAL		PERCENT SAMPLE		
		I	PLOTS	TREES		PER PLO	Γ	TREES		TREES		
TOT.	AL		121	605		5.0						
CRU	ISE		39	191		4.9		9,618		2.0		
DBH	COUNT								-			
REF(OREST											
COU	NT		75	406		5.4						
BLA			7									
100 %	%											
					STA	ND SUM	MARY					
			MPLE	TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET
		1	TREES	/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC
DOU	G FIR		177	58.9	23.1	94		170.9	39,739	39,118	8,594	8,594
R AL	DER		8	7.7	13.9	47		8.1	848	835	256	256
WR (CEDAR		6	2.0	14.0	23		2.2	120	120	40	40
TOT	AL		191	68.7	22.0	87		181.2	40,707	40,073	8,891	8,891
CON	IFIDENC			HE SAMPL T OF 100 TI	_	ME WILI	BE WI	THIN THE SAI	MPLE ERRO	OR		
CL	68.1		COEFF	T OF 100 TI	HE VOLU	SAMPI	LE TRE	ES - BF		OF TREES		INF. POP.
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CL SD: DOU	68.1 1.0 G FIR		COEFF VAR.% 61.9	Γ OF 100 TI S.E.% 4.6	HE VOLU	SAMPI OW 918	LE TRE AVG 962	ES - BF HIGH 1,007		OF TREES		
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CL SD: DOU R AL WR C TOT CL SD:	68.1 1.0 G FIR DER CEDAR AL 68.1 1.0		COEFF VAR.% 61.9 72.6 112.4 67.9 COEFF VAR.%	S.E.% 4.6 27.4 50.0 4.9 S.E.%	HE VOLU	SAMPI .OW 918 100 72 858 TREES	AVG 962 138 143 902 FACRE AVG	ES - BF HIGH 1,007 175 215 946 HIGH	#	OF TREES 5	10	1: 20 INF. POP.
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TC TSTATS]	ST <i>A</i> PROJECT	TIST	TICS BUCK				1 5/1 8/2009
TWP RGE	SECT T	RACT	,	ГҮРЕ	AC	RES	PLOTS	TREES	CuFt	BdFt
05N 06W	24 A	REA1	,	ГАКЕ		71.00	38	247	1	W
						ESTIMATED	Pl	ERCENT		
			TI	REES		TOTAL	S	AMPLE		
	PLOTS	TREES	PI	R PLOT		TREES	T	REES		
TOTAL	38	247		6.5			,			
CRUISE	14	77		5.5		6,641		1.2		
DBH COUNT										
REFOREST										
COUNT	24	166		6.9				,		
BLANKS										
100 %										
			STAN	D SUMMA	ARY					
	SAMPLE	TREES	AVG 1	BOLE	REL	BASAL	GROSS	NET	GROSS	NET
	TREES	/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC
DOUG FIR	70	74.6	24.3	95		240.0	58,508	57,433	12,316	12,316
R ALDER	4	15.0	13.9	47		15.8	1,649	1,624	498	498
WR CEDAR	3	4.0	14.0	23		4.2	233	233	78	78
			22.6	84		260.0	60.389	59,290	12,893	12,893
CONFIDENC 68.1	77 E LIMITS OF TIMES OUT COEFF	OF 100 THE	LE VOLUME W	/ILL BE W		THE SAMP	LE ERROR			
	E LIMITS OF TIMES OUT	THE SAMPI OF 100 THE	LE VOLUME W			THE SAMP	LE ERROR	OF TREES		INF. POP.
CONFIDENC 68.1 CL: 68.1 % SD: 1.0	E LIMITS OF TIMES OUT COEFF VAR.%	THE SAMPI OF 100 THE S.E.%	E VOLUME W S LOV	/ILL BE W	TREE:	I THE SAMPI S - BF HIGH	LE ERROR			INF. POP.
CONFIDENC 68.1 CL: 68.1 % SD: 1.0 DOUG FIR	E LIMITS OF TIMES OUT COEFF VAR.% 56.9	THE SAMPI OF 100 THE S.E.% 6.8	E VOLUME W S LOV	FAMPLE W A 986 1	TREES	THE SAMP S - BF HIGH 1,129	LE ERROR	OF TREES	REQ.	
CONFIDENC 68.1 CL: 68.1 % SD: 1.0 DOUG FIR R ALDER	E LIMITS OF TIMES OUT COEFF VAR.% 56.9 78.4	THE SAMPI OF 100 THE S.E.% 6.8 44.8	E VOLUME W S LOV	7ILL BE W SAMPLE W A 986 1 76	TREE: AVG ,058 138	S - BF HIGH 1,129 199	LE ERROR	OF TREES	REQ.	INF. POP.
CONFIDENC 68.1 CL: 68.1 % SD: 1.0 DOUG FIR R ALDER WR CEDAR	E LIMITS OF TIMES OUT COEFF VAR.% 56.9 78.4 125.6	THE SAMPI OF 100 THE S.E.% 6.8 44.8 86.9	E VOLUME W LOV	7ILL BE W SAMPLE W A 086 1 76 19	TREES AVG ,058 138 143	S - BF HIGH 1,129 199 268	LE ERROR	OF TREES	REQ. 10	INF. POP.
CONFIDENC 68.1 CL: 68.1 % SD: 1.0 DOUG FIR R ALDER WR CEDAR TOTAL	E LIMITS OF TIMES OUT COEFF VAR.% 56.9 78.4 125.6 65.0	THE SAMPI OF 100 THE S.E.% 6.8 44.8 86.9 7.4	E VOLUME W LOV S	VILL BE W SAMPLE W A 086 1 76 19 002	TREE: AVG ,058 138 143 <i>974</i>	S - BF HIGH 1,129 199	LE ERROR	OF TREES 5	REQ. 10	INF. POP. 1:
CONFIDENC 68.1 CL: 68.1 % SD: 1.0 DOUG FIR R ALDER WR CEDAR TOTAL CL: 68.1 %	E LIMITS OF TIMES OUT COEFF VAR.% 56.9 78.4 125.6 65.0 COEFF	THE SAMPI OF 100 THE S.E.% 6.8 44.8 86.9 7.4	E VOLUME W LOV 9	VILL BE W SAMPLE W A 086 1 76 19 102 FREES/A	TREES AVG ,058 138 143 <i>974</i> CRE	S - BF HIGH 1,129 199 268 1,046	LE ERROR	OF TREES 5 169 OF PLOTS	REQ. 10 42 REQ.	INF. POP.
CONFIDENC 68.1 CL: 68.1 % SD: 1.0 DOUG FIR R ALDER WR CEDAR TOTAL CL: 68.1 % SD: 1.0	E LIMITS OF TIMES OUT COEFF VAR.% 56.9 78.4 125.6 65.0 COEFF VAR.%	THE SAMPI OF 100 THE S.E.% 6.8 44.8 86.9 7.4 S.E.%	E VOLUME W LOV S	7ILL BE W SAMPLE W A 086 1 76 19 002 FREES/AG W A	TREES AVG ,058 138 143 974 CRE AVG	S - BF HIGH 1,129 199 268 1,046 HIGH	LE ERROR	OF TREES 5	REQ. 10	INF. POP.
CONFIDENC 68.1 CL: 68.1 % SD: 1.0 DOUG FIR R ALDER WR CEDAR TOTAL CL: 68.1 % SD: 1.0 DOUG FIR	E LIMITS OF TIMES OUT COEFF VAR.% 56.9 78.4 125.6 65.0 COEFF VAR.% 54.2	THE SAMPI OF 100 THE S.E.% 6.8 44.8 86.9 7.4 S.E.% 8.8	E VOLUME W LOV 9	7ILL BE W SAMPLE W A 986 1 76 19 002 FREES/A0 W A 68	TREES AVG ,058 138 143 974 CRE AVG 75	S - BF HIGH 1,129 199 268 1,046 HIGH 81	LE ERROR	OF TREES 5 169 OF PLOTS	REQ. 10 42 REQ.	INF. POP.
CONFIDENC 68.1 CL: 68.1 % SD: 1.0 DOUG FIR R ALDER WR CEDAR TOTAL CL: 68.1 % SD: 1.0 DOUG FIR R ALDER	E LIMITS OF TIMES OUT COEFF VAR.% 56.9 78.4 125.6 65.0 COEFF VAR.% 54.2 271.9	THE SAMPI OF 100 THE S.E.% 6.8 44.8 86.9 7.4 S.E.% 8.8 44.1	E VOLUME W LOV 9	7ILL BE W SAMPLE W A 986 1 76 19 002 FREES/A0 W A 68 8	TREES AVG ,058 138 143 974 CRE AVG 75 15	S - BF HIGH 1,129 199 268 1,046 HIGH 81 22	LE ERROR	OF TREES 5 169 OF PLOTS	REQ. 10 42 REQ.	INF. POP.
CONFIDENC 68.1 CL: 68.1 % SD: 1.0 DOUG FIR R ALDER WR CEDAR TOTAL CL: 68.1 % SD: 1.0 DOUG FIR R ALDER WR CEDAR	E LIMITS OF TIMES OUT COEFF VAR.% 56.9 78.4 125.6 65.0 COEFF VAR.% 54.2	THE SAMPI OF 100 THE S.E.% 6.8 44.8 86.9 7.4 S.E.% 8.8	LOV	7ILL BE W SAMPLE W A 986 1 76 19 002 FREES/A0 W A 68	TREES AVG ,058 138 143 974 CRE AVG 75	S - BF HIGH 1,129 199 268 1,046 HIGH 81 22 6	LE ERROR	OF TREES 5 169 OF PLOTS 5	REQ. 10 42 REQ. 10	INF. POP. 1: 19 INF. POP. 1:
CONFIDENC 68.1 CL: 68.1 % SD: 1.0 DOUG FIR R ALDER WR CEDAR TOTAL CL: 68.1 %	E LIMITS OF TIMES OUT COEFF VAR.% 56.9 78.4 125.6 65.0 COEFF VAR.% 54.2 271.9 340.9	THE SAMPI OF 100 THE S.E.% 6.8 44.8 86.9 7.4 S.E.% 8.8 44.1 55.2 8.1	LE VOLUME W LOV	7ILL BE W SAMPLE W A 086 1 76 19 002 FREES/A0 W A 68 8 2 86	TREES AVG ,058 138 143 974 CRE AVG 75 15 4 94	S - BF HIGH 1,129 199 268 1,046 HIGH 81 22 6 101	LE ERROR #	OF TREES 5 169 OF PLOTS 5	REQ. 10 42 REQ. 10	INF. POP. 19 INF. POP. 1:
CONFIDENC 68.1 CL: 68.1 % SD: 1.0 DOUG FIR R ALDER WR CEDAR TOTAL CL: 68.1 % SD: 1.0 DOUG FIR R ALDER WR CEDAR TOTAL TOTAL	E LIMITS OF TIMES OUT COEFF VAR.% 56.9 78.4 125.6 65.0 COEFF VAR.% 54.2 271.9 340.9 50.1	THE SAMPI OF 100 THE 6.8 44.8 86.9 7.4 S.E.% 8.8 44.1 55.2 8.1	LE VOLUME W LOV	FREES/AQ 86 19 102 FREES/AQ W A 68 8 2 86 BASAL A	TREES AVG ,058 138 143 974 CRE AVG 75 15 4 94 REA/A	S - BF HIGH 1,129 199 268 1,046 HIGH 81 22 6 101	LE ERROR #	OF TREES 5 169 OF PLOTS 5	REQ. 10 42 REQ. 10 25 REQ.	INF. POP. 19 INF. POP. 11 INF. POP.
CONFIDENC 68.1 CL: 68.1 % SD: 1.0 DOUG FIR R ALDER WR CEDAR TOTAL CL: 68.1 % SD: 1.0 DOUG FIR R ALDER WR CEDAR TOTAL CL: 68.1 % SD: 1.0 CL: 68.1 % CL: 68.1 % CL: 68.1 %	E LIMITS OF TIMES OUT COEFF VAR.% 56.9 78.4 125.6 65.0 COEFF VAR.% 54.2 271.9 340.9 50.1 COEFF	THE SAMPI OF 100 THE 6.8 44.8 86.9 7.4 S.E.% 8.8 44.1 55.2 8.1	LOV	FREES/AQ 86 19 102 FREES/AQ W A 68 8 2 86 BASAL A	TREES AVG ,058 138 143 974 CRE AVG 75 15 4 94	S - BF HIGH 1,129 199 268 1,046 HIGH 81 22 6 101	LE ERROR #	OF TREES 5 169 OF PLOTS 5	REQ. 10 42 REQ. 10	INF. POP. 19 INF. POP. 11 INF. POP.
CONFIDENC 68.1 CL: 68.1 % SD: 1.0 DOUG FIR R ALDER WR CEDAR TOTAL CL: 68.1 % SD: 1.0 DOUG FIR R ALDER WR CEDAR TOTAL CL: 68.1 % SD: 1.0 DOUG FIR CL: 68.1 % SD: 1.0 DOUG FIR	E LIMITS OF TIMES OUT COEFF VAR.% 56.9 78.4 125.6 65.0 COEFF VAR.% 54.2 271.9 340.9 50.1 COEFF	THE SAMPI OF 100 THE S.E.% 6.8 44.8 86.9 7.4 S.E.% 8.8 44.1 55.2 8.1	LOV	FREES/AU 886 1 76 19 902 FREES/AU 8 8 2 86 BASAL A	TREES AVG ,058 138 143 974 CRE AVG 75 15 4 94 REA/A	S - BF HIGH 1,129 199 268 1,046 HIGH 81 22 6 101 CCRE HIGH	LE ERROR #	OF TREES 5 169 OF PLOTS 5	REQ. 10 42 REQ. 10 25 REQ.	INF. POP. 19 INF. POP. 11 INF. POP.
CONFIDENC 68.1 CL: 68.1 % SD: 1.0 DOUG FIR R ALDER WR CEDAR TOTAL CL: 68.1 % SD: 1.0 DOUG FIR R ALDER WR CEDAR TOTAL CL: 68.1 % SD: 1.0 DOUG FIR SD: 1.0 DOUG FIR R ALDER R ALDER R ALDER R ALDER R ALDER	E LIMITS OF TIMES OUT COEFF VAR.% 56.9 78.4 125.6 65.0 COEFF VAR.% 54.2 271.9 340.9 50.1 COEFF VAR.%	THE SAMPI OF 100 THE S.E.% 6.8 44.8 86.9 7.4 S.E.% 8.8 44.1 55.2 8.1	LOV	FREES/AC 8 8 8 8 8 8 8 8 8 8 8 8 8	TREES AVG ,058 138 143 974 CRE AVG 75 15 4 94 REA/A AVG 240	S - BF HIGH 1,129 199 268 1,046 HIGH 81 22 6 101 CCRE HIGH 260	LE ERROR #	OF TREES 5 169 OF PLOTS 5	REQ. 10 42 REQ. 10 25 REQ.	INF. POP. 19 INF. POP. 11 INF. POP.
CONFIDENC 68.1 CL: 68.1 % SD: 1.0 DOUG FIR R ALDER WR CEDAR TOTAL CL: 68.1 % SD: 1.0 DOUG FIR R ALDER WR CEDAR TOTAL CL: 68.1 % SD: 1.0 DOUG FIR R ALDER WR CEDAR TOTAL CL: 68.1 % SD: 1.0 DOUG FIR R ALDER WR CEDAR WR CEDAR TOTAL CL: 68.1 % SD: 1.0 DOUG FIR R ALDER WR CEDAR	E LIMITS OF TIMES OUT COEFF VAR.% 56.9 78.4 125.6 65.0 COEFF VAR.% 54.2 271.9 340.9 50.1 COEFF VAR.%	THE SAMPI OF 100 THE S.E.% 6.8 44.8 86.9 7.4 S.E.% 8.8 44.1 55.2 8.1 S.E.% 8.3 44.3	LOV	7ILL BE W SAMPLE W A 986 1 76 19 902 FREES/A 8 8 2 86 BASAL A W A 220 9 2	TREE: AVG ,058 138 143 974 CRE AVG 75 15 4 94 REA/A AVG 240 16	S - BF HIGH 1,129 199 268 1,046 HIGH 81 22 6 101 CCRE HIGH 260 23	LE ERROR #	OF TREES 5 169 OF PLOTS 5	REQ. 10 42 REQ. 10 25 REQ.	INF. POP. 1: INF. POP. 1: INF. POP. 1:
CONFIDENC 68.1 CL: 68.1 % SD: 1.0 DOUG FIR R ALDER WR CEDAR TOTAL CL: 68.1 % SD: 1.0 DOUG FIR R ALDER WR CEDAR TOTAL CL: 68.1 % SD: 1.0 DOUG FIR R ALDER WR CEDAR TOTAL CL: 68.1 % SD: 1.0 DOUG FIR R ALDER WR CEDAR TOTAL TOTAL TOTAL	E LIMITS OF TIMES OUT COEFF VAR.% 56.9 78.4 125.6 65.0 COEFF VAR.% 54.2 271.9 340.9 50.1 COEFF VAR.% 51.1 273.4 295.5	THE SAMPI OF 100 THE 6.8 44.8 86.9 7.4 8.8 44.1 55.2 8.1 6. S.E.% 8.8 44.1 6. S.E.% 8.8 44.1 6. S.E.% 8.8	LOV	7ILL BE W SAMPLE W A 986 1 76 19 902 FREES/A 8 8 2 86 BASAL A W A 220 9 2	TREE: AVG ,058 138 143 974 CRE AVG 75 15 4 94 REA/A AVG 240 16 4 260	S - BF HIGH 1,129 199 268 1,046 HIGH 81 22 6 101 CCRE HIGH 260 23 6	LE ERROR #	OF TREES 5 169 OF PLOTS 5 100 OF PLOTS 5	REQ. 10 42 REQ. 10 25 REQ. 10 17	INF. POP. 1: 19 INF. POP. 1: INF. POP. 1:
CONFIDENC 68.1 CL: 68.1 % SD: 1.0 DOUG FIR R ALDER WR CEDAR TOTAL CL: 68.1 % SD: 1.0 DOUG FIR R ALDER WR CEDAR TOTAL CL: 68.1 % SD: 1.0 DOUG FIR R ALDER WR CEDAR TOTAL CL: 68.1 % SD: 1.0	E LIMITS OF TIMES OUT COEFF VAR.% 56.9 78.4 125.6 65.0 COEFF VAR.% 54.2 271.9 340.9 50.1 COEFF VAR.% 51.1 273.4 295.5 41.8 COEFF VAR.%	THE SAMPI OF 100 THE 6.8 44.8 86.9 7.4 S.E.% 8.8 44.1 55.2 8.1 S.E.% 8.3 44.3 47.9 6.8	LOV	/ILL BE W SAMPLE W A 086 1 76 19 002 FREES/A0 W A 68 8 2 86 BASAL A W A 220 9 2 442 NET BF/A	TREE: AVG ,058 138 143 974 CRE AVG 75 15 4 94 REA/A AVG 240 16 4 260	S - BF HIGH 1,129 199 268 1,046 HIGH 81 22 6 101 CCRE HIGH 260 23 6	LE ERROR #	OF TREES 5 169 OF PLOTS 5 100 OF PLOTS 5	REQ. 10 42 REQ. 10 25 REQ. 10 17	INF. POP. 19 INF. POP. 1: INF. POP. 1:
CONFIDENC 68.1 CL: 68.1 % SD: 1.0 DOUG FIR R ALDER WR CEDAR TOTAL CL: 68.1 % SD: 1.0 DOUG FIR R ALDER WR CEDAR TOTAL CL: 68.1 % SD: 1.0 DOUG FIR R ALDER WR CEDAR TOTAL CL: 68.1 % SD: 1.0	E LIMITS OF TIMES OUT COEFF VAR.% 56.9 78.4 125.6 65.0 COEFF VAR.% 54.2 271.9 340.9 50.1 COEFF VAR.% 51.1 273.4 295.5 41.8 COEFF VAR.%	THE SAMPI OF 100 THE S.E.% 6.8 44.8 86.9 7.4 S.E.% 8.8 44.1 55.2 8.1 S.E.% 8.3 44.3 47.9 6.8 S.E.% 8.8	LOV	FREES/AC 86 176 19 102 FREES/AC 86 8 2 86 BASAL A W A 220 9 2 442 NET BF/A W A	TREE: AVG ,058 138 143 974 CRE AVG 75 15 4 94 REA/A AVG 240 16 4 260 ACRE	S - BF HIGH 1,129 199 268 1,046 HIGH 81 22 6 101 CRE HIGH 260 23 6 278	LE ERROR #	OF TREES 5 169 OF PLOTS 5 100 OF PLOTS 5	### REQ. 10 42 REQ. 10 25 REQ. 10 17 REQ.	INF. POP. 1: INF. POP. 1: INF. POP.
CONFIDENC 68.1 CL: 68.1 % SD: 1.0 DOUG FIR R ALDER WR CEDAR TOTAL CL: 68.1 % SD: 1.0 DOUG FIR R ALDER WR CEDAR TOTAL CL: 68.1 % SD: 1.0 DOUG FIR R ALDER WR CEDAR TOTAL CL: 68.1 % SD: 1.0 DOUG FIR R ALDER WR CEDAR TOTAL CL: 68.1 % SD: 1.0 DOUG FIR R ALDER WR CEDAR TOTAL CL: 68.1 % SD: 1.0 DOUG FIR R ALDER R ALDER	E LIMITS OF TIMES OUT COEFF VAR.% 56.9 78.4 125.6 65.0 COEFF VAR.% 54.2 271.9 340.9 50.1 COEFF VAR.% 51.1 273.4 295.5 41.8 COEFF VAR.%	THE SAMPI OF 100 THE S.E.% 6.8 44.8 86.9 7.4 S.E.% 8.8 44.1 55.2 8.1 S.E.% 8.3 44.3 47.9 6.8 S.E.% 8.4 46.1	LOV	7ILL BE W SAMPLE N	TREE: AVG ,058 138 143 974 CRE AVG 75 15 4 94 REA/A AVG 240 16 4 260 ACRE AVG ,433 ,624	S - BF HIGH 1,129 199 268 1,046 HIGH 81 22 6 101 CCRE HIGH 260 23 6 278 HIGH 62,284 2,373	LE ERROR #	OF TREES 5 169 OF PLOTS 5 100 OF PLOTS 5	### REQ. 10 42 REQ. 10 25 REQ. 10 17 REQ.	INF. POP. 1: 19 INF. POP. 1: 2 INF. POP. 1: 8
CONFIDENC 68.1 CL: 68.1 % SD: 1.0 DOUG FIR R ALDER WR CEDAR TOTAL CL: 68.1 % SD: 1.0 DOUG FIR R ALDER WR CEDAR TOTAL CL: 68.1 % SD: 1.0 DOUG FIR R ALDER WR CEDAR TOTAL CL: 68.1 % SD: 1.0 DOUG FIR R ALDER WR CEDAR TOTAL CL: 68.1 % SD: 1.0 DOUG FIR R ALDER WR CEDAR TOTAL CL: 68.1 % SD: 1.0 DOUG FIR	E LIMITS OF TIMES OUT COEFF VAR.% 56.9 78.4 125.6 65.0 COEFF VAR.% 54.2 271.9 340.9 50.1 COEFF VAR.% 51.1 273.4 295.5 41.8 COEFF VAR.%	THE SAMPI OF 100 THE S.E.% 6.8 44.8 86.9 7.4 S.E.% 8.8 44.1 55.2 8.1 S.E.% 8.3 44.3 47.9 6.8 S.E.% 8.8	LOV	7ILL BE W SAMPLE N	TREE: AVG ,058 138 143 974 CRE AVG 75 15 4 94 REA/A AVG 240 16 4 260 ACRE AVG ,433	S - BF HIGH 1,129 199 268 1,046 HIGH 81 22 6 101 CCRE HIGH 260 23 6 278 HIGH 62,284	LE ERROR #	OF TREES 5 169 OF PLOTS 5 100 OF PLOTS 5	### REQ. 10 42 REQ. 10 25 REQ. 10 17 REQ.	INF. POP. 1: 19 INF. POP. 1: 2 INF. POP. 1: 8

	'ATS				ST PROJE	CT	TICS BUCK			PAGE DATE <i>6</i>	1 5/18/2009
TWP	RGE	SECT T	RACT		TYPE	A	CRES	PLOTS	TREES	CuFt	BdFt
05N	06W	24 A	REA2		TAKE		68.00	45	111	1	W
				. Т	REES		ESTIMATED TOTAL		PERCENT SAMPLE		
		PLOTS	TREES	P	ER PLOT	,	TREES		TREES		
TOTA	AL .	45	111		2.5						
	COUNT	11	37		3.4		2,883		1.3		
	REFOREST COUNT	27	74		2.7						
REFOREST COUNT BLANKS 100 %	7							•			
100 %	ó 										
				STAN	ID SUMI	MARY					
		SAMPLE TREES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
DOUG	G FIR	37	42.4	20.6	92		97.8	19,867	19,726	4,654	4,654
TOTA	AL	37	42.4	20.6	92		97.8	19,867	19,726	4,654	4,654
CONT	EIDENC										
	68.1	TIMES OUT	THE SAMPI OF 100 THE					LE ERROF			
CL:	68.1 %	TIMES OUT COEFF	OF 100 THE	VOLUME '	SAMPL	E TREE	S - BF	LE ERROF	# OF TREES	REQ.	INF. POP.
CL: SD:	68.1 % 1.0	TIMES OUT COEFF VAR.%	OF 100 THE S.E.%		SAMPL W	E TREE	S - BF HIGH	LE ERROF		REQ. 10	INF. POP.
CL: SD: DOUG	68.1 % 68.1 % 1.0 3 FIR	COEFF VAR.% 69.7	S.E.% 11.5	VOLUME LO	SAMPL W 533	E TREE AVG 602	CS - BF HIGH 671	LE ERROF	# OF TREES	10	1:
CL: SD: DOUG TOTA	68.1 % 1.0 G FIR AL	COEFF VAR.% 69.7 69.7	OF 100 THE S.E.%	VOLUME LO	SAMPL 9W 533 533	E TREE AVG 602 602	S - BF HIGH		# OF TREES 5	10 49	22
CL: SD: DOUG TOTA	68.1 % 1.0 G FIR AL 68.1 %	COEFF VAR.% 69.7 69.7 COEFF	S.E.% 11.5 11.5	LO	SAMPL W 533 533 TREES	E TREE AVG 602 602 ACRE	S - BF HIGH 671 671		# OF TREES 5 194 # OF PLOTS	10 49 REQ.	1: 22 INF. POP.
CL: SD: DOUG TOTA CL: SD:	68.1 % 1.0 G FIR AL 68.1 % 1.0	COEFF VAR.% 69.7 69.7 COEFF VAR.%	S.E.% S.E.% S.E.%	VOLUME LO	SAMPL 533 533 TREES	E TREE AVG 602 602 /ACRE AVG	S - BF HIGH 671 671 HIGH		# OF TREES 5	10 49	1: 22 INF. POP.
CL: SD: DOUG TOTA	68.1 % 1.0 3 FIR 4L 68.1 % 1.0 3 FIR	COEFF VAR.% 69.7 69.7 COEFF	S.E.% 11.5 11.5	LO	SAMPL W 533 533 TREES	E TREE AVG 602 602 ACRE	S - BF HIGH 671 671		# OF TREES 5 194 # OF PLOTS	10 49 REQ.	22
CL: SD: DOUG TOTA CL: SD: DOUG TOTA	68.1 % 1.0 3 FIR 4L 68.1 % 1.0 3 FIR	COEFF VAR.% 69.7 69.7 COEFF VAR.% 72.6	S.E.% 11.5 11.5 S.E.% 10.8	LO	533 533 TREES/ W 38 38	AVG 602 602 602 (ACRE AVG 42 42	ES - BF HIGH 671 671 HIGH 47 47		# OF TREES 5 194 # OF PLOTS 5 211	10 49 5 REQ. 10 53	1: 2: INF. POP. 1:
CL: SD: DOUG TOTA CL: SD: DOUG TOTA	68.1 % 1.0 3 FIR AL 68.1 % 1.0 3 FIR AL	COEFF VAR.% 69.7 69.7 COEFF VAR.% 72.6 72.6	S.E.% 11.5 11.5 11.5 10.8 10.8	LO	SAMPL 0W 533 533 TREES/0W 38 38 BASAL	AVG 602 602 602 (ACRE AVG 42 42	ES - BF HIGH 671 671 HIGH 47 47		# OF TREES 5 194 # OF PLOTS 5	10 49 5 REQ. 10 53	1: 22 INF. POP. 1: 2: INF. POP.
CL: SD: DOUG TOTA CL: SD: DOUG TOTA CL: SD: DOUG TOTA	68.1 % 1.0 G FIR AL 68.1 % 1.0 G FIR AL 68.1 % 1.0 G FIR AL 68.1 % 1.0 G FIR	COEFF VAR.% 69.7 69.7 COEFF VAR.% 72.6 72.6 COEFF VAR.% 67.9	S.E.% 11.5 11.5 S.E.% 10.8 10.8 S.E.% 10.1	LO	SAMPL 0W 533 533 TREES/0W 38 38 BASAL	AVG 602 602 ACRE AVG 42 42 AREA/A	ES - BF HIGH 671 671 HIGH 47 47		# OF TREES 5 194 # OF PLOTS 5 211 # OF PLOTS	10 49 5 REQ. 10 53 5 REQ.	1: 22 INF. POP. 1: 2: INF. POP.
CL: SD: DOUG TOTA CL: SD: DOUG TOTA CL: SD:	68.1 % 1.0 G FIR AL 68.1 % 1.0 G FIR AL 68.1 % 1.0 G FIR AL 68.1 % 1.0 G FIR	COEFF VAR.% 69.7 69.7 COEFF VAR.% 72.6 72.6 COEFF VAR.%	S.E.% 11.5 11.5 S.E.% 10.8 10.8 S.E.%	LO	SAMPL 533 533 TREES W 38 38 BASAL	AVG 602 602 602 ACRE AVG 42 42 AREA/A	ES - BF HIGH 671 671 HIGH 47 47 ACRE HIGH		# OF TREES 5 194 # OF PLOTS 5 211 # OF PLOTS	10 49 5 REQ. 10 53 5 REQ.	1: 22 INF. POP. 1: 2: INF. POP.
CL: SD: DOUG TOTA CL: SD: DOUG TOTA CL: SD: TOTA	68.1 % 1.0 G FIR AL 68.1 % 1.0 G FIR AL 68.1 % 1.0 G FIR AL 68.1 % 1.0 G FIR	COEFF VAR.% 69.7 69.7 COEFF VAR.% 72.6 72.6 COEFF VAR.% 67.9	S.E.% 11.5 11.5 S.E.% 10.8 10.8 S.E.% 10.1	LO	SAMPL 533 533 TREES W 38 38 BASAL	AVG 602 602 602 ACRE AVG 42 42 AREA/A AVG 98 98	ES - BF HIGH 671 671 HIGH 47 47 ACRE HIGH 108		# OF TREES 5 194 # OF PLOTS 5 211 # OF PLOTS 5	10 49 5 REQ. 10 53 5 REQ. 10 46	1: 22 INF. POP. 1: 2: INF. POP. 1:
CL: SD: DOUG TOTA CL: SD: DOUG TOTA CL: SD: CL: SD: CL: SD: CL: SD:	68.1 % 1.0 G FIR AL	COEFF VAR.% 69.7 69.7 COEFF VAR.% 72.6 72.6 COEFF VAR.% 67.9 67.9 COEFF VAR.%	S.E.% 11.5 11.5 11.5 S.E.% 10.8 10.8 S.E.% 10.1 10.1	LO	SAMPL W 533 533 TREES W 38 38 BASAL W 88 88 NET BF	AVG 42 42 AREA/A AVG 98 98 7/ACRE AVG	ES - BF HIGH 671 671 HIGH 47 47 ACRE HIGH 108 108 HIGH		# OF TREES 5 194 # OF PLOTS 5 211 # OF PLOTS 5	10 49 5 REQ. 10 53 5 REQ. 10 46	1: 22 INF. POP. 1:
CL: SD: DOUG TOTA CL: SD: DOUG TOTA CL: SD: CL: CL:	68.1 % 1.0 G FIR AL 68.1 % 1.0 G FIR	COEFF VAR.% 69.7 69.7 COEFF VAR.% 72.6 72.6 COEFF VAR.% 67.9 67.9 COEFF	S.E.% 11.5 11.5 S.E.% 10.8 10.8 S.E.% 10.1 10.1	LO LO LO 17	SAMPL W 533 533 TREES W 38 38 BASAL W 88 88 NET BF	AVG 42 42 AREA/A AVG 98 98	ES - BF HIGH 671 671 HIGH 47 47 ACRE HIGH 108 108		# OF TREES 5 194 # OF PLOTS 5 211 # OF PLOTS 5 184 # OF PLOTS	10 49 5 REQ. 10 53 5 REQ. 10 46 5 REQ.	1 2. INF. POP. 1 2. INF. POP. 1 1 2. INF. POP.

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IC TSTATS				STATIS' JECT	TICS BUCK	***************************************			1 /18/2009
TWP RGE	SECT TE	RACT	TYP	E AC	CRES	PLOTS	TREES	CuFt	BdFt
05N 06W	24 Al	REA2	00PC	2	68.00	45	294	1	W
			TREES		ESTIMATED TOTAL		ERCENT AMPLE	,	
	PLOTS	TREES	PER PI	OT	TREES	T	REES		
TOTAL	45	294	6.5						
CRUISE DBH COUNT REFOREST	16	107	6.7		6,937		1.5		
COUNT BLANKS 100 %	29	184	6.3						
			STAND SU	MMARY	· · ·				
	SAMPLE	TREES	AVG BOLE		BASAL	GROSS	NET	GROSS	NET
	TREES	/ACRE	DBH LEN		AREA	BF/AC	BF/AC	CF/AC	CF/AC
DOUGLEAV	49	26.9	28.5 12		119.1	33,389	33,127	6,792	6,788
DOUG FIR	37	42.4		92	97.8	19,867	19,726	4,654	4,654
SNAG	8	11.2		78	16.0	*	•	•	****
CEDLEAV	5	12.8	14.3	26	14.2	993	993	316	316
MAPLELV	2	3.6	17.9	19	6.2	533	513	175	175
ALDRLEAV	4	3.9		58	6.2	866	866	231	231
HEMLEAV	2	1.3		72	1.8	242	242	71	71
TOTAL	107	102.0	21.7 8	7	261.3	55,890	55,467	12,239	12,235
CONFIDENCE 68.1			E VOLUME WILL	BE WITHI	N THE SAMP	LE ERROR			
CI. (0.19/	COPPE					tr.	OH WINDO	DEO	INF. POP.
CL: 68.1 %	COEFF		SAM	PLE TREE	S-BF	#	OF TREES	KEŲ.	TIME TOTA
SD: 1.0	VAR.%	S.E.%	SAM LOW	PLE TREE AVG	S - BF HIGH	. #	OF TREES	10	
SD: 1.0 DOUGLEAV	VAR.% 38.4	S.E.% 5.5	LOW 1,269	AVG 1,342					
SD: 1.0 DOUGLEAV DOUG FIR SNAG	VAR.% 38.4 69.7	5.5 11.5	LOW 1,269 533	AVG 1,342 602	HIGH 1,416 671	. # 			1:
SD: 1.0 DOUGLEAV DOUG FIR SNAG CEDLEAV	VAR.% 38.4 69.7 128.8	5.5 11.5 64.0	LOW 1,269 533 68	AVG 1,342 602	HIGH 1,416 671 308	. # 			
SD: 1.0 DOUGLEAV DOUG FIR SNAG CEDLEAV MAPLELV	VAR.% 38.4 69.7 128.8 4.9	5.5 11.5 64.0 4.6	LOW 1,269 533 68 138	AVG 1,342 602 188 145	HIGH 1,416 671 308 152	. #			
SD: 1.0 DOUGLEAV DOUG FIR SNAG CEDLEAV MAPLELV ALDRLEAV	VAR.% 38.4 69.7 128.8	5.5 11.5 64.0	LOW 1,269 533 68	AVG 1,342 602	HIGH 1,416 671 308	. #			
SD: 1.0 DOUGLEAV DOUG FIR SNAG CEDLEAV MAPLELV ALDRLEAV HEMLEAV	VAR.% 38.4 69.7 128.8 4.9 21.3	5.5 11.5 64.0 4.6 12.2	LOW 1,269 533 68 138 200	AVG 1,342 602 188 145 228	HIGH 1,416 671 308 152 255	. #	5	10	1
SD: 1.0 DOUGLEAV DOUG FIR SNAG CEDLEAV MAPLELV ALDRLEAV HEMLEAV TOTAL	VAR.% 38.4 69.7 128.8 4.9 21.3	5.5 11.5 64.0 4.6	LOW 1,269 533 68 138 200	1,342 602 188 145 228 854	HIGH 1,416 671 308 152		230	10 57	2
SD: 1.0 DOUGLEAV DOUG FIR SNAG CEDLEAV MAPLELV ALDRLEAV HEMLEAV TOTAL CL: 68.1 %	VAR.% 38.4 69.7 128.8 4.9 21.3 75.9 COEFF	5.5 11.5 64.0 4.6 12.2 7.4	LOW 1,269 533 68 138 200 791 TRE	AVG 1,342 602 188 145 228 854 ES/ACRE	HIGH 1,416 671 308 152 255 917		5 230 OF PLOTS	57 REQ.	1. 20 INF. POP.
SD: 1.0 DOUGLEAV DOUG FIR SNAG CEDLEAV MAPLELV ALDRLEAV HEMLEAV TOTAL CL: 68.1 % SD: 1.0	VAR.% 38.4 69.7 128.8 4.9 21.3 75.9 COEFF VAR.%	5.5 11.5 64.0 4.6 12.2 7.4 S.E.%	LOW 1,269 533 68 138 200 791 TRE LOW	AVG 1,342 602 188 145 228 854 ES/ACRE AVG	HIGH 1,416 671 308 152 255 917 HIGH		230	10 57	
SD: 1.0 DOUGLEAV DOUG FIR SNAG CEDLEAV MAPLELV ALDRLEAV HEMLEAV TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV	VAR.% 38.4 69.7 128.8 4.9 21.3 75.9 COEFF VAR.% 36.9	5.5 11.5 64.0 4.6 12.2 7.4 S.E.% 5.5	LOW 1,269 533 68 138 200 791 TRE LOW 25	AVG 1,342 602 188 145 228 854 ES/ACRE AVG 27	HIGH 1,416 671 308 152 255 917 HIGH 28		5 230 OF PLOTS	57 REQ.	
SD: 1.0 DOUGLEAV DOUG FIR SNAG CEDLEAV MAPLELV ALDRLEAV HEMLEAV TOTAL CL: 68.1 % SD: 1.0	VAR.% 38.4 69.7 128.8 4.9 21.3 75.9 COEFF VAR.%	5.5 11.5 64.0 4.6 12.2 7.4 S.E.%	LOW 1,269 533 68 138 200 791 TRE LOW	AVG 1,342 602 188 145 228 854 ES/ACRE AVG 27 42	HIGH 1,416 671 308 152 255 917 HIGH 28 47		5 230 OF PLOTS	57 REQ.	1 2 INF. POP.
DOUGLEAV DOUG FIR SNAG CEDLEAV MAPLELV ALDRLEAV HEMLEAV TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV DOUG FIR	VAR.% 38.4 69.7 128.8 4.9 21.3 75.9 COEFF VAR.% 36.9 72.6	5.5 11.5 64.0 4.6 12.2 7.4 S.E.% 5.5 10.8	LOW 1,269 533 68 138 200 791 TRE LOW 25 38	AVG 1,342 602 188 145 228 854 ES/ACRE AVG 27	HIGH 1,416 671 308 152 255 917 HIGH 28		5 230 OF PLOTS	57 REQ.	
SD: 1.0 DOUGLEAV DOUG FIR SNAG CEDLEAV MAPLELV ALDRLEAV HEMLEAV TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV DOUG FIR SNAG	VAR.% 38.4 69.7 128.8 4.9 21.3 75.9 COEFF VAR.% 36.9 72.6 234.5	5.5 11.5 64.0 4.6 12.2 7.4 S.E.% 5.5 10.8 34.9	LOW 1,269 533 68 138 200 791 TRE LOW 25 38 7	AVG 1,342 602 188 145 228 854 ES/ACRE AVG 27 42 11	HIGH 1,416 671 308 152 255 917 HIGH 28 47 15		5 230 OF PLOTS	57 REQ.	
SD: 1.0 DOUGLEAV DOUG FIR SNAG CEDLEAV MAPLELV ALDRLEAV HEMLEAV TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV DOUG FIR SNAG CEDLEAV MAPLELV ALDRLEAV	VAR.% 38.4 69.7 128.8 4.9 21.3 75.9 COEFF VAR.% 36.9 72.6 234.5 180.3 334.5 268.3	5.5 11.5 64.0 4.6 12.2 7.4 S.E.% 5.5 10.8 34.9 26.9 49.8 40.0	LOW 1,269 533 68 138 200 791 TRE LOW 25 38 7 9	AVG 1,342 602 188 145 228 854 ES/ACRE AVG 27 42 11 13	HIGH 1,416 671 308 152 255 917 HIGH 28 47 15 16 5 5		5 230 OF PLOTS	57 REQ.	
SD: 1.0 DOUGLEAV DOUG FIR SNAG CEDLEAV MAPLELV ALDRLEAV HEMLEAV TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV DOUG FIR SNAG CEDLEAV MAPLELV ALDRLEAV HEMLEAV HEMLEAV	VAR.% 38.4 69.7 128.8 4.9 21.3 75.9 COEFF VAR.% 36.9 72.6 234.5 180.3 334.5 268.3 670.8	5.5 11.5 64.0 4.6 12.2 7.4 S.E.% 5.5 10.8 34.9 26.9 49.8 40.0 99.9	LOW 1,269 533 68 138 200 791 TRE LOW 25 38 7 9 2 2 0	AVG 1,342 602 188 145 228 854 ES/ACRE AVG 27 42 11 13 4 4 1	HIGH 1,416 671 308 152 255 917 HIGH 28 47 15 16 5 5 3		5 230 OF PLOTS 5	57 REQ. 10	20 INF. POP. 1
SD: 1.0 DOUGLEAV DOUG FIR SNAG CEDLEAV MAPLELV ALDRLEAV TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV DOUG FIR SNAG CEDLEAV MAPLELV ALDRLEAV	VAR.% 38.4 69.7 128.8 4.9 21.3 75.9 COEFF VAR.% 36.9 72.6 234.5 180.3 334.5 268.3	5.5 11.5 64.0 4.6 12.2 7.4 S.E.% 5.5 10.8 34.9 26.9 49.8 40.0	LOW 1,269 533 68 138 200 791 TRE LOW 25 38 7 9 2 2	AVG 1,342 602 188 145 228 854 ES/ACRE AVG 27 42 11 13 4 4	HIGH 1,416 671 308 152 255 917 HIGH 28 47 15 16 5 5		5 230 OF PLOTS	57 REQ.	20 INF. POP. 1
SD: 1.0 DOUGLEAV DOUG FIR SNAG CEDLEAV MAPLELV ALDRLEAV TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV DOUGLEAV DOUG FIR SNAG CEDLEAV MAPLELV ALDRLEAV HEMLEAV HEMLEAV	VAR.% 38.4 69.7 128.8 4.9 21.3 75.9 COEFF VAR.% 36.9 72.6 234.5 180.3 334.5 268.3 670.8	5.5 11.5 64.0 4.6 12.2 7.4 S.E.% 5.5 10.8 34.9 26.9 49.8 40.0 99.9	LOW 1,269 533 68 138 200 791 TRE LOW 25 38 7 9 2 2 0 96	AVG 1,342 602 188 145 228 854 ES/ACRE AVG 27 42 11 13 4 4 1 102	HIGH 1,416 671 308 152 255 917 HIGH 28 47 15 16 5 5 3 108	. #	5 230 OF PLOTS 5	57 REQ. 10	2/ INF. POP. 1
SD: 1.0 DOUGLEAV DOUG FIR SNAG CEDLEAV MAPLELV ALDRLEAV HEMLEAV TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV DOUG FIR SNAG CEDLEAV MAPLELV ALDRLEAV HEMLEAV HEMLEAV HEMLEAV	VAR.% 38.4 69.7 128.8 4.9 21.3 75.9 COEFF VAR.% 36.9 72.6 234.5 180.3 334.5 268.3 670.8 41.4	5.5 11.5 64.0 4.6 12.2 7.4 S.E.% 5.5 10.8 34.9 26.9 49.8 40.0 99.9	LOW 1,269 533 68 138 200 791 TRE LOW 25 38 7 9 2 2 0 96	AVG 1,342 602 188 145 228 854 ES/ACRE AVG 27 42 11 13 4 4 1	HIGH 1,416 671 308 152 255 917 HIGH 28 47 15 16 5 5 3 108	. #	5 230 OF PLOTS 5 69 OF PLOTS	57 REQ. 10	2/INF. POP.
SD: 1.0 DOUGLEAV DOUG FIR SNAG CEDLEAV MAPLELV ALDRLEAV HEMLEAV TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV DOUG FIR SNAG CEDLEAV MAPLELV ALDRLEAV HEMLEAV HEMLEAV TOTAL CEDLEAV	VAR.% 38.4 69.7 128.8 4.9 21.3 75.9 COEFF VAR.% 36.9 72.6 234.5 180.3 334.5 268.3 670.8 41.4 COEFF	5.5 11.5 64.0 4.6 12.2 7.4 S.E.% 5.5 10.8 34.9 26.9 49.8 40.0 99.9 6.2	LOW 1,269 533 68 138 200 791 TRE LOW 25 38 7 9 2 2 0 96 BAS	AVG 1,342 602 188 145 228 854 ES/ACRE AVG 27 42 11 13 4 1 102 AL AREA/A	HIGH 1,416 671 308 152 255 917 HIGH 28 47 15 16 5 5 3 108 ACRE	. #	5 230 OF PLOTS 5	57 REQ. 10	20 INF. POP. 1 INF. POP.
SD: 1.0 DOUGLEAV DOUG FIR SNAG CEDLEAV MAPLELV ALDRLEAV HEMLEAV TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV DOUG FIR SNAG CEDLEAV MAPLELV ALDRLEAV HEMLEAV HEMLEAV TOTAL CL: 68.1 % SD: 1.0	VAR.% 38.4 69.7 128.8 4.9 21.3 75.9 COEFF VAR.% 36.9 72.6 234.5 180.3 334.5 268.3 670.8 41.4 COEFF VAR.%	5.5 11.5 64.0 4.6 12.2 7.4 S.E.% 5.5 10.8 34.9 26.9 49.8 40.0 99.9 6.2	LOW 1,269 533 68 138 200 791 TRE LOW 25 38 7 9 2 2 0 96 BAS. LOW	AVG 1,342 602 188 145 228 854 ES/ACRE AVG 27 42 11 13 4 1 102 AL AREA/A AVG	HIGH 1,416 671 308 152 255 917 HIGH 28 47 15 16 5 3 108 ACRE HIGH	. #	5 230 OF PLOTS 5 69 OF PLOTS	57 REQ. 10	2/INF. POP.
SD: 1.0 DOUGLEAV DOUG FIR SNAG CEDLEAV MAPLELV ALDRLEAV HEMLEAV TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV DOUG FIR SNAG CEDLEAV MAPLELV ALDRLEAV HEMLEAV TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV DOUG FIR SNAG CEDLEAV HEMLEAV HEMLEAV TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV DOUG FIR SNAG	VAR.% 38.4 69.7 128.8 4.9 21.3 75.9 COEFF VAR.% 36.9 72.6 234.5 180.3 334.5 268.3 670.8 41.4 COEFF VAR.% 34.7 67.9 202.3	5.5 11.5 64.0 4.6 12.2 7.4 S.E.% 5.5 10.8 34.9 26.9 49.8 40.0 99.9 6.2 S.E.% 5.2 10.1 30.1	LOW 1,269 533 68 138 200 791 TRE LOW 25 38 7 9 2 2 0 96 BAS. LOW 113 88 11	AVG 1,342 602 188 145 228 854 ES/ACRE AVG 27 42 11 13 4 1 102 AL AREA/A AVG 119 98 16	HIGH 1,416 671 308 152 255 917 HIGH 28 47 15 16 5 5 3 108 ACRE HIGH 125 108 21	. #	5 230 OF PLOTS 5 69 OF PLOTS	57 REQ. 10	2/INF. POP.
SD: 1.0 DOUGLEAV DOUG FIR SNAG CEDLEAV MAPLELV ALDRLEAV HEMLEAV TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV DOUG FIR SNAG CEDLEAV MAPLELV ALDRLEAV HEMLEAV TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV DOUG FIR SNAG CEDLEAV HEMLEAV TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV DOUG FIR SNAG CEDLEAV	VAR.% 38.4 69.7 128.8 4.9 21.3 75.9 COEFF VAR.% 36.9 72.6 234.5 180.3 334.5 268.3 670.8 41.4 COEFF VAR.% 34.7 67.9 202.3 171.2	5.5 11.5 64.0 4.6 12.2 7.4 S.E.% 5.5 10.8 34.9 26.9 49.8 40.0 99.9 6.2 S.E.% 5.2 10.1 30.1 25.5	LOW 1,269 533 68 138 200 791 TRE LOW 25 38 7 9 2 2 0 96 BAS. LOW 113 88 11 11	AVG 1,342 602 188 145 228 854 ES/ACRE AVG 27 42 11 13 4 1 102 AL AREA/A AVG 119 98 16 14	HIGH 1,416 671 308 152 255 917 HIGH 28 47 15 16 5 5 3 108 ACRE HIGH 125 108 21 18	. #	5 230 OF PLOTS 5 69 OF PLOTS	57 REQ. 10	20 INF. POP. 1 INF. POP.
SD: 1.0 DOUGLEAV DOUG FIR SNAG CEDLEAV MAPLELV ALDRLEAV HEMLEAV TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV DOUG FIR SNAG CEDLEAV MAPLELV ALDRLEAV HEMLEAV TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV DOUG FIR SNAG CEDLEAV MAPLELV ALDRLEAV HEMLEAV TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV DOUGLEAV DOUGLEAV DOUGLEAV DOUGLEAV DOUGLEAV DOUGLEAV DOUGLEAV MAPLELV	VAR.% 38.4 69.7 128.8 4.9 21.3 75.9 COEFF VAR.% 36.9 72.6 234.5 180.3 334.5 268.3 670.8 41.4 COEFF VAR.% 34.7 67.9 202.3 171.2 334.5	5.5 11.5 64.0 4.6 12.2 7.4 S.E.% 5.5 10.8 34.9 26.9 49.8 40.0 99.9 6.2 S.E.% 5.2 10.1 30.1 25.5 49.8	LOW 1,269 533 68 138 200 791 TRE LOW 25 38 7 9 2 2 0 96 BAS LOW 113 88 11 11 3	AVG 1,342 602 188 145 228 854 ES/ACRE AVG 27 42 11 13 4 1 102 AL AREA/A AVG 119 98 16 14 6	HIGH 1,416 671 308 152 255 917 HIGH 28 47 15 16 5 5 3 108 ACRE HIGH 125 108 21 18 9	. #	5 230 OF PLOTS 5 69 OF PLOTS	57 REQ. 10	2/INF. POP.
SD: 1.0 DOUGLEAV DOUG FIR SNAG CEDLEAV MAPLELV ALDRLEAV HEMLEAV TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV DOUG FIR SNAG CEDLEAV MAPLELV ALDRLEAV HEMLEAV TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV DOUG FIR SNAG CEDLEAV MAPLELV ALDRLEAV DOUG FIR SNAG CEDLEAV DOUGLEAV DOUGLEAV DOUGLEAV DOUGLEAV DOUGLEAV DOUGLEAV DOUGLEAV DOUGLEAV ALDRLEAV ALDRLEAV	VAR.% 38.4 69.7 128.8 4.9 21.3 75.9 COEFF VAR.% 36.9 72.6 234.5 180.3 334.5 268.3 670.8 41.4 COEFF VAR.% 34.7 67.9 202.3 171.2 334.5 272.6	5.5 11.5 64.0 4.6 12.2 7.4 S.E.% 5.5 10.8 34.9 26.9 49.8 40.0 99.9 6.2 S.E.% 5.2 10.1 30.1 25.5 49.8 40.6	LOW 1,269 533 68 138 200 791 TRE LOW 25 38 7 9 2 2 0 96 BAS LOW 113 88 11 11 3 4	AVG 1,342 602 188 145 228 854 ES/ACRE AVG 27 42 11 13 4 1 102 AL AREA/A AVG 119 98 16 14 6 6	HIGH 1,416 671 308 152 255 917 HIGH 28 47 15 16 5 3 108 ACRE HIGH 125 108 21 18 9 9	. #	5 230 OF PLOTS 5 69 OF PLOTS	57 REQ. 10	2 INF. POP. 1 INF. POP.
SD: 1.0 DOUGLEAV DOUG FIR SNAG CEDLEAV MAPLELV ALDRLEAV HEMLEAV TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV DOUG FIR SNAG CEDLEAV MAPLELV ALDRLEAV HEMLEAV TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV MAPLELV ALDRLEAV HEMLEAV TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV DOUG FIR SNAG CEDLEAV MAPLELV ALDRLEAV HEMLEAV HEMLEAV HEMLEAV HEMLEAV HEMLEAV HEMLEAV	VAR.% 38.4 69.7 128.8 4.9 21.3 75.9 COEFF VAR.% 36.9 72.6 234.5 180.3 334.5 268.3 670.8 41.4 COEFF VAR.% 34.7 67.9 202.3 171.2 334.5 272.6 670.8	5.5 11.5 64.0 4.6 12.2 7.4 S.E.% 5.5 10.8 34.9 26.9 49.8 40.0 99.9 6.2 S.E.% 5.2 10.1 30.1 25.5 49.8 40.6 99.9	LOW 1,269 533 68 138 200 791 TRE LOW 25 38 7 9 2 2 0 96 BAS LOW 113 88 11 11 3 4 0	AVG 1,342 602 188 145 228 854 ES/ACRE AVG 27 42 11 13 4 1 102 AL AREA/A AVG 119 98 16 14 6 6 6 2	HIGH 1,416 671 308 152 255 917 HIGH 28 47 15 16 5 3 108 ACRE HIGH 125 108 21 18 9 9 4	. #	5 230 OF PLOTS 5 69 OF PLOTS 5	57 REQ. 10 17 REQ. 10	2: INF. POP. 1 INF. POP.
SD: 1.0 DOUGLEAV DOUG FIR SNAG CEDLEAV MAPLELV ALDRLEAV HEMLEAV TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV DOUG FIR SNAG CEDLEAV MAPLELV ALDRLEAV HEMLEAV TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV HEMLEAV HEMLEAV TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV DOUG FIR SNAG CEDLEAV HEMLEAV	VAR.% 38.4 69.7 128.8 4.9 21.3 75.9 COEFF VAR.% 36.9 72.6 234.5 180.3 334.5 268.3 670.8 41.4 COEFF VAR.% 34.7 67.9 202.3 171.2 334.5 272.6 670.8 24.8	5.5 11.5 64.0 4.6 12.2 7.4 S.E.% 5.5 10.8 34.9 26.9 49.8 40.0 99.9 6.2 S.E.% 5.2 10.1 30.1 25.5 49.8 40.6	LOW 1,269 533 68 138 200 791 TRE LOW 25 38 7 9 2 2 0 96 BAS LOW 113 88 11 11 3 4	AVG 1,342 602 188 145 228 854 ES/ACRE AVG 27 42 11 13 4 1 102 AL AREA/A AVG 119 98 16 14 6 6	HIGH 1,416 671 308 152 255 917 HIGH 28 47 15 16 5 3 108 ACRE HIGH 125 108 21 18 9 9	. #	5 230 OF PLOTS 5 69 OF PLOTS	57 REQ. 10	20 INF. POP. 1 INF. POP.
SD: 1.0 DOUGLEAV DOUG FIR SNAG CEDLEAV MAPLELV ALDRLEAV HEMLEAV TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV DOUG FIR SNAG CEDLEAV MAPLELV ALDRLEAV HEMLEAV TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV HEMLEAV HEMLEAV TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV HEMLEAV HEMLEAV HOUG FIR SNAG CEDLEAV HEMLEAV HOUG FIR SNAG CEDLEAV HEMLEAV HEMLEA	VAR.% 38.4 69.7 128.8 4.9 21.3 75.9 COEFF VAR.% 36.9 72.6 234.5 180.3 334.5 268.3 670.8 41.4 COEFF VAR.% 34.7 67.9 202.3 171.2 334.5 272.6 670.8 24.8 COEFF	5.5 11.5 64.0 4.6 12.2 7.4 S.E.% 5.5 10.8 34.9 26.9 49.8 40.0 99.9 6.2 S.E.% 5.2 10.1 30.1 25.5 49.8 40.6 99.9 3.7	LOW 1,269 533 68 138 200 791 TRE LOW 25 38 7 9 2 2 0 96 BAS. LOW 113 88 11 11 3 4 0 252 NET	AVG 1,342 602 188 145 228 854 ES/ACRE AVG 27 42 11 13 4 1 102 AL AREA/A AVG 119 98 16 14 6 6 2 261 BF/ACRE	HIGH 1,416 671 308 152 255 917 HIGH 28 47 15 16 5 5 3 108 ACRE HIGH 125 108 21 18 9 9 4 271	#	5 230 OF PLOTS 5 69 OF PLOTS 5	10 57 REQ. 10 17 REQ. 10	2 INF. POP. 1 INF. POP.
SD: 1.0 DOUGLEAV DOUG FIR SNAG CEDLEAV MAPLELV ALDRLEAV HEMLEAV TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV DOUG FIR SNAG CEDLEAV MAPLELV ALDRLEAV HEMLEAV TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV HEMLEAV HEMLEAV TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV DOUG FIR SNAG CEDLEAV HEMLEAV TOTAL CL: 68.1 % SD: 1.0 CEDLEAV MAPLELV ALDRLEAV HEMLEAV TOTAL CL: 68.1 % SD: 1.0 CEDLEAV MAPLELV ALDRLEAV HEMLEAV TOTAL CL: 68.1 % SD: 1.0	VAR.% 38.4 69.7 128.8 4.9 21.3 75.9 COEFF VAR.% 36.9 72.6 234.5 180.3 334.5 268.3 670.8 41.4 COEFF VAR.% 34.7 67.9 202.3 171.2 334.5 272.6 670.8 24.8 COEFF VAR.%	5.5 11.5 64.0 4.6 12.2 7.4 S.E.% 5.5 10.8 34.9 26.9 49.8 40.0 99.9 6.2 S.E.% 5.2 10.1 30.1 25.5 49.8 40.6 99.9 3.7	LOW 1,269 533 68 138 200 791 TRE LOW 25 38 7 9 2 2 0 96 BAS. LOW 113 88 11 11 3 4 0 2552 NET LOW	AVG 1,342 602 188 145 228 854 ES/ACRE AVG 27 42 11 13 4 1 102 AL AREA/A AVG 119 98 16 14 6 6 2 261 BF/ACRE AVG	HIGH 1,416 671 308 152 255 917 HIGH 28 47 15 16 5 5 3 108 ACRE HIGH 125 108 21 18 9 9 4 271 HIGH	#	5 230 OF PLOTS 5 69 OF PLOTS 5	10 57 REQ. 10 17 REQ. 10	
SD: 1.0 DOUGLEAV DOUG FIR SNAG CEDLEAV MAPLELV ALDRLEAV HEMLEAV TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV DOUG FIR SNAG CEDLEAV MAPLELV ALDRLEAV HEMLEAV TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV HEMLEAV HEMLEAV TOTAL CL: 68.1 % SD: 1.0 DOUGLEAV HEMLEAV HEMLEAV HEMLEAV TOTAL CL: 68.1 % CEDLEAV MAPLELV ALDRLEAV HEMLEAV	VAR.% 38.4 69.7 128.8 4.9 21.3 75.9 COEFF VAR.% 36.9 72.6 234.5 180.3 334.5 268.3 670.8 41.4 COEFF VAR.% 34.7 67.9 202.3 171.2 334.5 272.6 670.8 24.8 COEFF	5.5 11.5 64.0 4.6 12.2 7.4 S.E.% 5.5 10.8 34.9 26.9 49.8 40.0 99.9 6.2 S.E.% 5.2 10.1 30.1 25.5 49.8 40.6 99.9 3.7	LOW 1,269 533 68 138 200 791 TRE LOW 25 38 7 9 2 2 0 96 BAS. LOW 113 88 11 11 3 4 0 252 NET	AVG 1,342 602 188 145 228 854 ES/ACRE AVG 27 42 11 13 4 1 102 AL AREA/A AVG 119 98 16 14 6 6 2 261 BF/ACRE	HIGH 1,416 671 308 152 255 917 HIGH 28 47 15 16 5 5 3 108 ACRE HIGH 125 108 21 18 9 9 4 271	#	5 230 OF PLOTS 5 69 OF PLOTS 5	10 57 REQ. 10 17 REQ. 10	INF. POP. INF. POP.

TC TSI	TATS				STATIS JECT	TICS BUCK			PAGE DATE 6	2 5/18/2009
TWP	RGE	SECT TR	ACT	TYP	E A	CRES	PLOTS	TREES	CuFt	BdFt
05N	06W	24 AR	EA2	00PC	<u> </u>	68.00	45	294	1	W
CL:	68.1%	COEFF		NET	BF/ACRE			# OF PLO	TS REQ.	INF. PO
SD:	1.0	VAR.	S.E.%	LOW	AVG	HIGH		5	10	15
CEDI	LEAV	182.0	27.1	724	993	1,263				
MAP	LELV	334.5	49.8	258	513	769				
ALDI	RLEAV	271.6	40.5	516	866	1,216				
HEM	LEAV	670.8	99.9	0	242	484				
TOT	AL	31,4	4.7	52,874	55.467	-58.060		39	10	4

TC TSTA	ATS				STA PROJECT	TIST	ICS BUCK			PAGE DATE	1 6/18/2009
TWP	RGE	SECT T	RACT	,	ТҮРЕ	AC	RES	PLOTS	TREES	CuFt	BdFt
05N	06W	24 F	ROW	-	R/W		1.00	38	247	1	W
				Т	REES		ESTIMATED FOTAL		ERCENT AMPLE		
		PLOTS	TREES		ER PLOT		TREES		REES		
TOTA	L	38	247		6.5						****
CRUIS		14	77		5.5		94		82.3		
DBH C	COUNT								02.0		
REFO	REST										
COUN	TI	24	166		6.9						
BLAN	KS										
100 %											
				STAN	D SUMMA	ARY				··········	
		SAMPLE	TREES	AVG 1	BOLE	REL	BAŞAL	GROSS	NET	GROS	S NET
		TREES	/ACRE	DBH		DEN	AREA	BF/AC	BF/AC	CF/AC	
DOUG	FIR	70	74.6	24.3	95		240.0	58,508	. 57,433	12,31	
R ALD	DER	4	15.0	13.9	47		15.8	1,649	1,624	49:	
		3	4.0	14.0	23		4,2	233	233	7:	
WR CE											
CONF	AL FIDENCI 68.1	77 E LIMITS OF TIMES OUT	93.5 THE SAMPI OF 100 THE	VOLUME W					59,290	12,893	
CCL:	FIDENCI 68.1 68.1 %	77 E LIMITS OF TIMES OUT COEFF	THE SAMPI OF 100 THE	.E VOLUME W	VILL BE W	TREES	THE SAMP	LE ERROR	OF TREES	S REQ.	INF. POP
CCL: (FIDENCI 68.1 68.1 % 1.0	77 E LIMITS OF TIMES OUT	THE SAMPI OF 100 THE	E VOLUME W ! LOV	VILL BE W		THE SAMP	LE ERROR		,	INF. POP
CL: (SD:	FIDENCI 68.1 68.1 % 1.0 6 FIR	77 E LIMITS OF TIMES OUT COEFF VAR.9	THE SAMPI OF 100 THE S.E.%	E VOLUME W ! LOV	VILL BE W SAMPLE W A 986 1,	TREES	THE SAMPI - BF HIGH	LE ERROR	OF TREES	S REQ.	INF. POP
CCL: CSD:	FIDENCI 68.1 68.1 % 1.0 FIR DER	77 E LIMITS OF TIMES OUT COEFF VAR.9 56.9	7 THE SAMPI OF 100 THE 7 6 S.E.% 6.8	E VOLUME W ! LOV	VILL BE W SAMPLE V N A 086 1, 76	TREES	THE SAMPLE - BF HIGH 1,129	LE ERROR	OF TREES	S REQ.	INF. POP
CCL: CSD: DOUG R ALD	FIDENCI 68.1 68.1 % 1.0 6 FIR DER EDAR	E LIMITS OF TIMES OUT COEFF VAR.9 56.9 78.4	7 THE SAMPI OF 100 THE 6 S.E.% 6.8 44.8	E VOLUME W ! LOV	VILL BE W SAMPLE N A 086 1, 76	TREES .VG .058 138	THE SAMPI - BF HIGH 1,129 199	LE ERROR	OF TREES	S REQ.	INF. POP
CL: OSD: DOUG R ALD WR CE TOTA	FIDENCI 68.1 68.1 % 1.0 6 FIR DER EDAR	E LIMITS OF TIMES OUT COEFF VAR.9 56.9 78.4 125.6	THE SAMPI OF 100 THE S S.E.% 6.8 44.8 86.9 7.4	E VOLUME W LOV 9	VILL BE W SAMPLE N A 086 1, 76	TREES .VG .058 138 143 974	THE SAMP! - BF HIGH 1,129 199 268	LE ERROR #	OF TREES 5	S REQ. 10	INF. POP
CL: OSD:	68.1 % 1.0 6FIR DER EDAR AL 68.1 % 1.0	77 E LIMITS OF TIMES OUT COEFF VAR.9 56.9 78.4 125.6 65.0	THE SAMPI OF 100 THE S.E.% 6.8 44.8 86.9 7.4	E VOLUME W LOV 9	VILL BE W SAMPLE W A 086 1, 76 19 002 FREES/AG	TREES .VG .058 138 143 974	THE SAMP! - BF HIGH 1,129 199 268	LE ERROR #	OF TREES 5	S REQ. 10	INF. POP
CL: OSD: DOUG	68.1 % 1.0 6FIR DER EDAR L 68.1 % 1.0 6FIR DER EDAR L 68.1 % 1.0 FIR	77 E LIMITS OF TIMES OUT COEFF VAR.9 56.9 78.4 125.6 65.0 COEFF VAR.9 54.2	7 THE SAMPI OF 100 THE 6 S.E.% 6.8 44.8 86.9 7.4 7 6 S.E.% 8.8	E VOLUME W LOV 9	VILL BE W SAMPLE N A 086 1, 76 19 002 FREES/AG W A	TREES VG 058 138 143 974 CRE VG 75	THE SAMP! - BF HIGH 1,129 199 268 1,046 HIGH 81	LE ERROR #	OF TREES 5 169 OF PLOTS	3 REQ. 10 42 3 REQ.	INF. POP
CL: (SD: DOUG R ALD CL: (SD: (SD: CL: (SD: (SD: CL: (SD: (SD: CL: (SD: (SD: CL: (SD: (SD: (SD: (SD: (SD: (SD: (SD: (SD	68.1 % 1.0 6FIR DER EDAR 1. 68.1 % 1.0 6FIR DER EDAR 1. 6FIR DER EDAR 1.	77 E LIMITS OF TIMES OUT COEFF VAR.9 56.9 78.4 125.6 65.0 COEFF VAR.9 54.2 271.9	7 THE SAMPI OF 100 THE 6 S.E.% 6.8 44.8 86.9 7.4 7 6 S.E.% 8.8 44.1	E VOLUME W LOV 9	VILL BE W SAMPLE N A 086 1, 76 19 002 FREES/AG W A 68 8	TREES VG 058 138 143 974 CRE VG 75 15	THE SAMPI - BF HIGH 1,129 199 268 1,046 HIGH 81 22	LE ERROR #	OF TREES 5 169 OF PLOTS	3 REQ. 10 42 3 REQ.	INF. POP
CL: OSD: DOUG R ALD DOUG R ALD WR CE TOTA	FIDENCE 68.1 % 1.0 FFIR DER EDAR AL 68.1 % 1.0 FFIR DER EDAR	77 E LIMITS OF TIMES OUT COEFF VAR.9 56.9 78.4 125.6 65.0 COEFF VAR.9 54.2 271.9 340.9	6 S.E.% 6 S.E.% 6 S.E.% 6 S.E.% 7 7 8 8 8 4 4 1 5 5 5 2	E VOLUME W LOV 9	VILL BE W SAMPLE N A 086 1, 76 19 002 FREES/AG N A 68 8 2	TREES VG 058 138 143 974 CRE VG 75 15 4	THE SAMPI - BF HIGH 1,129 199 268 1,046 HIGH 81 22 6	LE ERROR #	OF TREES 5 169 OF PLOTS 5	3 REQ. 10 42 3 REQ. 10	INF. POP INF. POP 1
CL: OSD: DOUG R ALD WR CE TOTA WR CE TOTA	FIDENCI 68.1 68.1 68.1 1.0 6 FIR DER EDAR L 68.1 68.1 68.1 68.1 68.1 CFIR DER EDAR L CFIR DER EDAR L CFIR DER EDAR L CFIR DER EDAR L L	77 E LIMITS OF TIMES OUT COEFF VAR.9 56.9 78.4 125.6 65.0 COEFF VAR.9 54.2 271.9 340.9 50.1	6 S.E.% 6 S.E.% 6 S.E.% 6 S.E.% 7.4 7 6 S.E.% 8.8 44.1 55.2 8.1	E VOLUME W LOV 9	VILL BE W SAMPLE ' N A 086 1, 76 19 002 FREES/AG W A 68 8 2 86	TREES VG 0558 138 143 974 CRE VG 75 15 4 94	THE SAMPI - BF HIGH 1,129 199 268 1,046 HIGH 81 22 6 101	LE ERROR #	OF TREES 5 169 OF PLOTS 5	3 REQ. 10 42 3 REQ. 10	INF. POP I INF. POP 1
CL: (SD: DOUG R ALD DOUG R ALD WR CE TOTA CL: (TOTA CL:	68.1 % 1.0 68.1 % 1.0 68.1 % EDAR L 68.1 % 1.0 6FIR DER EDAR L 68.1 % 68.1 %	77 E LIMITS OF TIMES OUT COEFF VAR.9 56.9 78.4 125.6 65.0 COEFF VAR.9 54.2 271.9 340.9 50.1 COEFF	THE SAMPI OF 100 THE S.E.% 6.8 44.8 86.9 7.4 6. S.E.% 8.8 44.1 55.2 8.1	E VOLUME W LOV	VILL BE W SAMPLE ' W A 086 1, 76 19 002 FREES/AG W A 68 8 2 86 BASAL A	TREES VG 058 138 143 974 CRE VG 75 15 4 94 REA/AG	THE SAMPI - BF HIGH 1,129 199 268 1,046 HIGH 81 22 6 101	LE ERROR #	OF TREES 5 169 OF PLOTS 5	3 REQ. 10 42 5 REQ. 10 25 5 REQ.	INF. POP INF. POP INF. POP
CL: (SD: DOUG R ALD WR CE TOTA CL: (SD: TOTA	68.1 % 1.0 68.1 % 1.0 68.1 % EDAR 1. 68.1 % 1.0 67.1 68.1 % 1.0 67.1 68.1 % 1.0 68.1 % 1.0	77 E LIMITS OF TIMES OUT COEFF VAR.9 56.9 78.4 125.6 65.0 COEFF VAR.9 54.2 271.9 340.9 50.1 COEFF VAR.9	THE SAMPI OF 100 THE S.E.% 6.8 44.8 86.9 7.4 S.E.% 8.8 44.1 55.2 8.1	E VOLUME W LOV	VILL BE W SAMPLE V V A 086 1, 76 19 002 FREES/AG W A 68 8 2 86 BASAL AI	TREES VG 058 138 143 974 CRE VG 75 15 4 94 REA/AG	THE SAMPI - BF HIGH 1,129 199 268 1,046 HIGH 81 22 6 101 CRE HIGH	LE ERROR #	OF TREES 5 169 OF PLOTS 5	3 REQ. 10 42 3 REQ. 10	INF. POP INF. POP INF. POP
CL: (SD: DOUG R ALD WR CE TOTA CL: (SD: DOUG SD:	68.1 % 1.0 68.1 % 1.0 68.1 % EDAR 1.0 68.1 % 1.0 68.1 % 1.0 68.1 % 1.0 68.1 % 1.0 68.1 %	77 E LIMITS OF TIMES OUT COEFI VAR.9 56.9 78.4 125.6 65.0 COEFI VAR.9 54.2 271.9 340.9 50.1 COEFI VAR.9 51.1	THE SAMPI OF 100 THE 6 S.E.% 6.8 44.8 86.9 7.4 6 S.E.% 8.8 44.1 55.2 8.1	E VOLUME W LOV	VILL BE W SAMPLE V V A 086 1, 76 19 002 FREES/AG W A 68 8 2 86 BASAL AI W A	TREES VG 058 138 143 974 CRE VG 75 15 4 94 REA/AG VG 240	THE SAMPI - BF HIGH 1,129 199 268 1,046 HIGH 81 22 6 101 CRE HIGH 260	LE ERROR #	OF TREES 5 169 OF PLOTS 5	3 REQ. 10 42 5 REQ. 10 25 5 REQ.	INF. POP INF. POP INF. POP
CL: (SD: DOUG R ALD WR CE TOTA CL: (SD: DOUG R ALD WR CE TOTA CL: (SD: DOUG R ALD CL:	EDENCI 68.1 % 1.0 GFIR DER EDAR AL 68.1 % 1.0 GFIR DER	77 E LIMITS OF TIMES OUT COEFI VAR.9 56.9 78.4 125.6 65.0 COEFI VAR.9 54.2 271.9 340.9 50.1 COEFI VAR.9 51.1 273.4	6 S.E.% 8.8 44.8 86.9 7.4 6 S.E.% 8.8 44.1 55.2 8.1 6 S.E.% 8.3 44.3	E VOLUME W LOV	VILL BE W SAMPLE N A 086 1, 76 19 002 FREES/AG N A 68 8 2 86 BASAL AI N A 220 9	TREES VG 058 138 143 974 CRE VG 75 15 4 94 REA/AG VG 240 16	THE SAMPI - BF HIGH 1,129 199 268 1,046 HIGH 81 22 6 101 CRE HIGH 260 23	LE ERROR #	OF TREES 5 169 OF PLOTS 5	3 REQ. 10 42 5 REQ. 10 25 5 REQ.	INF. POP INF. POP INF. POP
CL: (SD: DOUG R ALD WR CE TOTA	FIDENCE 68.1 % 1.0 FIR DER EDAR AL 68.1 % 1.0 FIR DER EDAR EDAR EDAR	77 E LIMITS OF TIMES OUT COEFF VAR.9 56.9 78.4 125.6 65.0 COEFF VAR.9 54.2 271.9 340.9 50.1 COEFF VAR.9 51.1 273.4 295.5	6 S.E.% 8.8 44.8 86.9 7.4 6 S.E.% 8.8 44.1 55.2 8.1 6 S.E.% 8.3 44.3 47.9	E VOLUME W LOV S LOV LOV LOV	VILL BE W SAMPLE N A 086 1, 76 19 002 TREES/AG N A 68 8 2 86 BASAL AI W A 220 9 2	TREES VG 058 138 143 974 CRE VG 75 15 4 94 REA/AG 240 16 4	THE SAMPI - BF HIGH 1,129 199 268 1,046 HIGH 81 22 6 101 CRE HIGH 260 23 6	LE ERROR #	OF TREES 5 169 OF PLOTS 5 100 OF PLOTS 5	3 REQ. 10 42 3 REQ. 10 25 5 REQ. 10	INF. POP INF. POP INF. POP
CL: (SD: DOUG R ALD WR CE TOTA	FIDENCI 68.1 68.1 68.1 1.0 68.1 68.1 68.1 68.1 68.1 68.1 68.1 68.1	77 E LIMITS OF TIMES OUT COEFI VAR.9 56.9 78.4 125.6 65.0 COEFI VAR.9 54.2 271.9 340.9 50.1 COEFI VAR.9 51.1 273.4	6 S.E.% 6 S.E.% 6 S.E.% 6 S.E.% 8.8 44.8 86.9 7.4 6 S.E.% 8.8 44.1 55.2 8.1 6 S.E.% 8.3 44.3 47.9 6.8	E VOLUME W	VILL BE W SAMPLE V V A 086 1, 76 19 002 FREES/AG V A 68 8 2 86 BASAL AI V A 220 9 2 442	TREES VG 058 138 143 974 CRE VG 75 15 4 94 REA/AG VG 240 16 4 260	THE SAMPI - BF HIGH 1,129 199 268 1,046 HIGH 81 22 6 101 CRE HIGH 260 23	LE ERROR # #	OF TREES 5 169 OF PLOTS 5 100 OF PLOTS 5	3 REQ. 10 42 3 REQ. 10 25 3 REQ. 10	INF. POP INF. POP INF. POP INF. POP
CL: (SD: DOUG R ALD WR CE TOTA CL: (SD: DOUG R ALD WR CE TOTA CL: (TOTA CL: (CL:	EDAR AL 68.1 % 1.0 FIR DER EDAR AL 68.1 % 1.0 FI	77 E LIMITS OF TIMES OUT COEFI VAR.9 56.9 78.4 125.6 65.0 COEFI VAR.9 54.2 271.9 340.9 50.1 COEFI VAR.9 51.1 273.4 295.5 41.8 COEFI	THE SAMPI OF 100 THE S.E.% 6.8 44.8 86.9 7.4 S.E.% 8.8 44.1 55.2 8.1 S.E.% 8.3 44.3 47.9 6.8	E VOLUME W	VILL BE W SAMPLE V V A 086 1, 76 19 002 FREES/AG V A 68 8 2 86 BASAL AI V A 220 9 2 442 NET BF/A	TREES VG 058 138 143 974 CRE VG 75 15 4 94 REA/AG VG 240 16 4 260 CRE	THE SAMPI - BF HIGH 1,129 199 268 1,046 HIGH 81 22 6 101 CRE HIGH 260 23 6 278	LE ERROR # #	OF TREES 5 169 OF PLOTS 5 100 OF PLOTS 5	3 REQ. 10 42 3 REQ. 10 25 3 REQ. 10 17 3 REQ.	INF. POP INF. POP INF. POP
CL: OSD: DOUG RALD WR CE TOTA CL: OSD: DOUG RALD WR CE TOTA CL: OSD: DOUG RALD WR CE TOTA CL: OSD: TOTA	EDAR AL 68.1 % 1.0 FIR DER EDAR AL 68.1 % 1.0 FI	77 E LIMITS OF TIMES OUT COEFI VAR.9 56.9 78.4 125.6 65.0 COEFI VAR.9 54.2 271.9 340.9 50.1 COEFI VAR.9 51.1 273.4 295.5 41.8 COEFI VAR.9	THE SAMPI OF 100 THE S.E.% 6.8 44.8 86.9 7.4 S.E.% 8.8 44.1 55.2 8.1 S.E.% 8.3 44.3 47.9 6.8 S.E.% 6.8 S.E.%	E VOLUME W	VILL BE W SAMPLE V V A 086 1, 76 19 002 FREES/AG V A 68 8 2 86 BASAL AI W A 220 9 2 442 NET BF/A W A	TREES VG 058 138 143 974 CRE VG 75 15 4 94 REA/AG VG 240 16 4 260 CRE VG	THE SAMPI - BF HIGH 1,129 199 268 1,046 HIGH 81 22 6 101 CRE HIGH 260 23 6 278 HIGH	LE ERROR # #	OF TREES 5 169 OF PLOTS 5 100 OF PLOTS 5	3 REQ. 10 42 3 REQ. 10 25 3 REQ. 10	INF. POP INF. POP INF. POP
CL: (SD: DOUG R ALD WR CE TOTA CL: (SD: DOUG R ALD WR CE TOTA CL: (SD: DOUG R ALD WR CE TOTA CL: (SD: SD: SD: SD: SD: SD: SD: SD: SD: SD:	EDENCION 68.1 % 1.0 GFIR DER EDAR AL 68.1 % 1.0 GFIR	77 E LIMITS OF TIMES OUT COEFI VAR.9 56.9 78.4 125.6 65.0 COEFI VAR.9 54.2 271.9 340.9 50.1 COEFI VAR.9 51.1 273.4 295.5 41.8 COEFI	THE SAMPI OF 100 THE S.E.% 6.8 44.8 86.9 7.4 S.E.% 8.8 44.1 55.2 8.1 S.E.% 8.3 44.3 47.9 6.8	LOV	VILL BE W SAMPLE 1 V A 086 1, 76 19 002 TREES/AG W A 68 8 2 86 BASAL AI W A 220 9 2 442 NET BF/A W A 583 57,	TREES VG 058 138 143 974 CRE VG 75 15 4 94 REA/AG VG 240 16 4 260 CRE	THE SAMPI - BF HIGH 1,129 199 268 1,046 HIGH 81 22 6 101 CRE HIGH 260 23 6 278 HIGH 62,284	LE ERROR # #	OF TREES 5 169 OF PLOTS 5 100 OF PLOTS 5	3 REQ. 10 42 3 REQ. 10 25 3 REQ. 10 17 3 REQ.	INF. POP INF. POP INF. POP
CL: (SD: DOUG R ALD WR CE TOTA CL: (SD: DOUG SD: DOUG SD: DOUG	EDENCION 68.1 % 1.0 G FIR DER EDAR LL 68.1 % 1.0 G FIR DER	77 E LIMITS OF TIMES OUT COEFF VAR.9 56.9 78.4 125.6 65.0 COEFF VAR.9 54.2 271.9 340.9 50.1 COEFF VAR.9 51.1 273.4 295.5 41.8 COEFF VAR.9 52.1	THE SAMPI OF 100 THE S.E.% 6.8 44.8 86.9 7.4 S.E.% 8.8 44.1 55.2 8.1 S.E.% 8.3 44.3 47.9 6.8 S.E.% 8.44.3	LOV	VILL BE W SAMPLE V N A 086 1, 76 19 002 TREES/AG W A 68 8 2 86 BASAL AI W A 0220 9 2 442 NET BF/A W A 083 57, 875 1,	TREES VG 058 138 143 974 CRE VG 75 15 4 94 REA/AG VG 240 16 4 260 CRE VG 433	THE SAMPI - BF HIGH 1,129 199 268 1,046 HIGH 81 22 6 101 CRE HIGH 260 23 6 278 HIGH	LE ERROR # #	OF TREES 5 169 OF PLOTS 5 100 OF PLOTS 5	3 REQ. 10 42 3 REQ. 10 25 3 REQ. 10 17 3 REQ.	INF. POP. INF. POP. INF. POP. INF. POP. 1

TC TSTA	ATS				ST. PROJEC	ATIST	TICS BUCK			PAGE DATE 6	1 /18/2009
TWP	RGE	SECT TR	RACT		TYPE		CRES	PLOTS	TREES	CuFt	BdFt
05N	06W	24 AI	REA2		LEAV		68.00	45	184	1	W
							ESTIMATED		ERCENT		
		DI OTO	mp ppg		TREES		TOTAL		AMPLE		
		PLOTS	TREES		PER PLOT		TREES	Т	REES		
TOTAL		45	184		4.1						
CRUIS		16	70		4.4		4,054		1.7		
DBH C REFOR											
COUN		29	112		3.9						
BLANK			. 112								
100 %											
				STAI	ND SUMM	IARY	•				
		SAMPLE	TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET
		TREES	/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC
DOUGI	LEAV	49	26.9	28.5	120		119.1	33,389	33,127	6,792	6,788
SNAG	7.4.7.	8	11.2	16.2	78		16.0				
CEDLE		5	12.8	14.3	26 40		14.2	993	993	316	316
MAPLE ALDRI		2 4	3.6 3.9	17.9 17.0	49 58		6.2 6.2	533 866	513 866	175	175
HEMLE		2	3.9 1.3	16.0	38 72		1.8	866 242	866 242	231 71	231 71
TOTAL		70	59.6	22.4	83		163.6	36,023	35,741	7,584	7,581
CONF		E LIMITS OF 7		_						.,,.	,,,,,,
OI.		TIMES OUT O	OF 100 THE	VOLUME				1 200000			
	58.1 %	COEFF			SAMPLE			#	OF TREES		INF. POP.
SD: DOUGI	1.0	VAR.% 38.4	S.E.% 5.5)W ,269	AVG 1,342	HIGH		5	10	15
SNAG	LEAV	30.4	۵,۵	,	,209	1,342	1,416				
CEDLE	EAV	128.8	64.0		68	188	308				
MAPLE		4.9	4.6		138	145	152				
ALDRL	LEAV	21.3	12.2		200	228	255				
HEMLE										i	
TOTAL	L	71.6	8.6		905	990	1,075		205	51	23
CL: 6	58.1 %	COEFF			TREES/A	ACRE	11 11111111	#	OF PLOTS	REQ.	INF. POP.
SD:		VAR.%	S.E.%	LC)W	AVG	HIGH		5	10	15
DOUGI	LEAV	36.9	5.5		25	27	28				
SNAG	7 4 3 7	234.5	34.9		7	11	15				
CEDLE		180.3	26.9		9	13					
	/	224 5	40.0		3		16				
		334.5 268.3	49.8 40.0		2	4	5				
ALDRL	LEAV	268.3	40.0		2 2 0		5 5				
ALDRL HEMLE	LEAV EAV	268.3 670.8	40.0 99.9		2	4 4 1	5 5 3		112	28	12
ALDRL HEMLE TOTAI	LEAV EAV L	268.3 670.8 53.0	40.0		2 0 55	4 4 1 60	5 5 3 64		112	28	
ALDRI HEMLE TOTAI	LEAV EAV L 58.1 %	268.3 670.8 53.0 COEFF	40.0 99.9 7.9	1.0	2 0 55 BASAL A	4 4 1 60 AREA/A	5 5 3 64 CRE	#	OF PLOTS	REQ.	INF. POP.
ALDRL HEMLE TOTAL CL: 6 SD:	LEAV EAV L 58.1 %	268.3 670.8 53.0 COEFF VAR.%	40.0 99.9 7.9 S.E.%	LC	2 0 55 BASAL A	4 4 1 60 AREA/A AVG	5 5 3 64 .CRE HIGH	#			INF. POP.
ALDRI HEMLE TOTAL CL: 6 SD: DOUGE	LEAV EAV L 58.1 %	268.3 670.8 53.0 COEFF	40.0 99.9 7.9	LC	2 0 55 BASAL A	4 4 1 60 AREA/A	5 5 3 64 CRE	#	OF PLOTS	REQ.	INF. POP.
ALDRI HEMLE TOTAL CL: 6 SD: DOUGI SNAG	EAV EAV L 58.1 % 1.0 LEAV	268.3 670.8 53.0 COEFF VAR.% 34.7	40.0 99.9 7.9 S.E.% 5.2	LC	2 0 55 BASAL A DW 113	4 1 60 AREA/A AVG 119	5 5 3 64 CRE HIGH 125	#	OF PLOTS	REQ.	INF. POP.
ALDRI HEMLE TOTAL CL: 6 SD: DOUGH SNAG CEDLE MAPLE	EAV EAV L 58.1 % 1.0 LEAV EAV	268.3 670.8 53.0 COEFF VAR.% 34.7 202.3 171.2 334.5	40.0 99.9 7.9 S.E.% 5.2 30.1 25.5 49.8	LC	2 0 55 BASAL 4 DW 113 11 11 3	4 4 1 60 AREA/A AVG 119 16 14 6	5 5 3 64 CRE HIGH 125 21 18 9	#	OF PLOTS	REQ.	INF. POP.
TOTAL CL: 6 SD: DOUGH SNAG CEDLE MAPLE ALDRI	LEAV EAV L 58.1 % 1.0 LEAV BAV ELV LEAV	268.3 670.8 53.0 COEFF VAR.% 34.7 202.3 171.2 334.5 272.6	40.0 99.9 7.9 S.E.% 5.2 30.1 25.5 49.8 40.6	LC	2 0 55 BASAL A DW 113 11 11 3 4	4 4 1 60 AREA/A AVG 119 16 14 6 6	5 5 3 64 CRE HIGH 125 21 18 9	#	OF PLOTS	REQ.	INF. POP.
ALDRI HEMLE TOTAI CL: 6 SD: DOUGI SNAG CEDLE MAPLE ALDRI HEMLE	EAV EAV L 68.1 % 1.0 LEAV EAV ELV LEAV EAV	268.3 670.8 53.0 COEFF VAR.% 34.7 202.3 171.2 334.5 272.6 670.8	40.0 99.9 7.9 S.E.% 5.2 30.1 25.5 49.8 40.6 99.9	LC	2 0 55 BASAL A DW 113 11 11 3 4 0	4 4 1 60 AREA/A AVG 119 16 14 6 6 6 2	5 5 3 64 CCRE HIGH 125 21 18 9 9	#	OF PLOTS 5	REQ. 10	15
ALDRI HEMLE TOTAI CL: 6 SD: DOUGI SNAG CEDLE MAPLE ALDRI HEMLE TOTAI	EAV EAV L 68.1 % 1.0 LEAV EAV EAV EAV LEAV LEAV	268.3 670.8 53.0 COEFF VAR.% 34.7 202.3 171.2 334.5 272.6 670.8 20.1	40.0 99.9 7.9 S.E.% 5.2 30.1 25.5 49.8 40.6	LC	2 0 55 BASAL A DW 113 11 11 3 4 0 159	4 4 1 60 AREA/A AVG 119 16 14 6 6 2 164	5 5 3 64 CRE HIGH 125 21 18 9		OF PLOTS 5	REQ. 10	INF. POP. 15
ALDRI HEMLE TOTAL CL: 60 SD: DOUGH SNAG CEDLE MAPLE ALDRI HEMLE TOTAL CL: 60	EAV EAV L 68.1 % 1.0 LEAV EAV ELV LEAV EAV L 68.1 %	268.3 670.8 53.0 COEFF VAR.% 34.7 202.3 171.2 334.5 272.6 670.8 20.1	40.0 99.9 7.9 S.E.% 5.2 30.1 25.5 49.8 40.6 99.9 3.0		2 0 55 BASAL A DW 113 11 11 3 4 0 159 NET BF/	4 4 1 60 AREA/A AVG 119 16 14 6 6 2 164 ACRE	5 5 3 64 CCRE HIGH 125 21 18 9 9 4 168		OF PLOTS 5 16 OF PLOTS	REQ. 10 4 REQ.	INF. POP. 15 2 INF. POP.
ALDRI HEMLE TOTAL OCL: 60 SD: DOUGH SNAG CEDLE MAPLE ALDRI HEMLE TOTAL CL: 60 SD:	EAV EAV L 68.1 % 1.0 LEAV EAV ELV LEAV EAV L 1.0 1.0 1.0 1.0 1.0 1.0	268.3 670.8 53.0 COEFF VAR.% 34.7 202.3 171.2 334.5 272.6 670.8 20.1 COEFF VAR.%	40.0 99.9 7.9 S.E.% 5.2 30.1 25.5 49.8 40.6 99.9 3.0 S.E.%	LC	2 0 55 BASAL A DW 113 11 11 3 4 0 159 NET BF/	4 4 1 60 AREA/A AVG 119 16 14 6 6 2 164 ACRE AVG	5 5 64 CCRE HIGH 125 21 18 9 9 4 168		OF PLOTS 5	REQ. 10	INF. POP. 15 2 INF. POP.
ALDRI HEMLE TOTAL OCL: 60 SD: DOUGH ALDRI HEMLE TOTAL CL: 60 SD: DOUGH ALDRI DOUGH ALDRI CL: 60 SD: D	EAV EAV L 68.1 % 1.0 LEAV EAV ELV LEAV EAV L 1.0 1.0 1.0 1.0 1.0 1.0	268.3 670.8 53.0 COEFF VAR.% 34.7 202.3 171.2 334.5 272.6 670.8 20.1	40.0 99.9 7.9 S.E.% 5.2 30.1 25.5 49.8 40.6 99.9 3.0	LC	2 0 55 BASAL A DW 113 11 11 3 4 0 159 NET BF/	4 4 1 60 AREA/A AVG 119 16 14 6 6 2 164 ACRE	5 5 3 64 CCRE HIGH 125 21 18 9 9 4 168		OF PLOTS 5 16 OF PLOTS	REQ. 10 4 REQ.	INF. POP. 15 2 INF. POP.
ALDRL HEMLE TOTAL CL: 6 SD: DOUGH ALDRL HEMLE TOTAL CL: 6 SD: DOUGH SNAG	EAV EAV L 68.1 % 1.0 LEAV EAV ELV LEAV EAV L 1.0 LEAV L 68.1 %	268.3 670.8 53.0 COEFF VAR.% 34.7 202.3 171.2 334.5 272.6 670.8 20.1 COEFF VAR.% 35.7	40.0 99.9 7.9 S.E.% 5.2 30.1 25.5 49.8 40.6 99.9 3.0 S.E.% 5.3	LC	2 0 55 BASAL A DW 113 11 11 3 4 0 159 NET BF/	4 4 1 60 AREA/A AVG 119 16 14 6 6 2 164 ACRE AVG 3,127	5 5 64 CCRE HIGH 125 21 18 9 4 168 HIGH 34,886		OF PLOTS 5 16 OF PLOTS	REQ. 10 4 REQ.	INF. POP. 15 2 INF. POP.
ALDRL HEMLE TOTAL CL: 6 SD: DOUGH SNAG CEDLE MAPLE ALDRL HEMLE TOTAL CL: 6 SD: DOUGH SNAG CEDLE	EAV EAV L 68.1 % 1.0 LEAV EAV ELV LEAV L 68.1 % 1.0 LEAV	268.3 670.8 53.0 COEFF VAR.% 34.7 202.3 171.2 334.5 272.6 670.8 20.1 COEFF VAR.% 35.7	40.0 99.9 7.9 S.E.% 5.2 30.1 25.5 49.8 40.6 99.9 3.0 S.E.%	LC	2 0 55 BASAL A DW 113 11 11 3 4 0 159 NET BF/	4 4 4 1 60 AREA/A AVG 119 16 14 6 6 2 2 164 ACRE AVG 3,127	5 5 64 CRE HIGH 125 21 18 9 9 4 168 HIGH 34,886		OF PLOTS 5 16 OF PLOTS	REQ. 10 4 REQ.	INF. POP. 15 2 INF. POP.
ALDRL HEMLE TOTAL SD: DOUGH SNAG CEDLE MAPLE ALDRL HEMLE TOTAL CL: 6 SD: DOUGH SNAG	EAV EAV L 58.1 % 1.0 LEAV EAV EAV EAV L 58.1 % 1.0 LEAV	268.3 670.8 53.0 COEFF VAR.% 34.7 202.3 171.2 334.5 272.6 670.8 20.1 COEFF VAR.% 35.7	40.0 99.9 7.9 S.E.% 5.2 30.1 25.5 49.8 40.6 99.9 3.0 S.E.% 5.3	LC	2 0 55 BASAL A DW 113 11 11 3 4 0 159 NET BF/ DW ,367 3	4 4 1 60 AREA/A AVG 119 16 14 6 6 2 164 ACRE AVG 3,127	5 5 64 CCRE HIGH 125 21 18 9 4 168 HIGH 34,886		OF PLOTS 5 16 OF PLOTS	REQ. 10 4 REQ.	INF. POP. 15 2 INF. POP.
ALDRL HEMLE TOTAL CL: 6 SD: DOUGH SNAG CEDLE MAPLE ALDRL HEMLE TOTAL CL: 6 SD: DOUGH SNAG CEDLE MAPLE	EAV EAV L 58.1 % 1.0 LEAV EAV EAV LEAV LEAV LEAV L 58.1 % 1.0 LEAV	268.3 670.8 53.0 COEFF VAR.% 34.7 202.3 171.2 334.5 272.6 670.8 20.1 COEFF VAR.% 35.7	40.0 99.9 7.9 S.E.% 5.2 30.1 25.5 49.8 40.6 99.9 3.0 S.E.% 5.3	LC	2 0 55 BASAL A 0W 113 11 11 3 4 0 159 NET BF/ 0W ,367 3	4 4 4 1 60 AREA/A AVG 119 16 14 6 6 2 2 164 ACRE AVG 3,127	5 5 64 CRE HIGH 125 21 18 9 4 168 HIGH 34,886		OF PLOTS 5 16 OF PLOTS	REQ. 10 4 REQ.	INF. POP. 15

TC PLOGSTVB Log Stock Table - MBF Page 1 T05N R06W S24 TyTAKE 71.00 Project: BUCK Date 6/18/2009 T05N R06W S24 TyTAKE 68.00 Acres 140.00 2:54:30PM Time T05N R06W S24 TyR/W 1.00

T05N	T					1.00			T								111110	. س	34:30FWI
	S				Gross	Def	Net	%			1		1		eter in I				T
F F	$\frac{T}{I}$				MBF	%	MBF	Spc	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	-	24-29	30-39 40-
D		DO		16	13		13	.2			}						13		
D		DO		20	22		22	.4								22			
D		DO	2S	28	62	1.9	61	1.1			İ						30	30	
D		DO	2 S	30	33		33	.6									33		
D		DO	2S	32	1,296	2.1	1,270	23.2					15	222	178	428	349	78	
D		DO	2S	34	97		97	1.8						33		29	34		
D		DO	2S	36	25		25	.4								25			
D		DO :	2S	38	41	1.5	40	.7									40		
D		DO :	2S	40	3,095	1.6	3,044	55.6					30	354	359	997	918	386	
D	ľ	DO	3S	10	2		2	.0			2	·							
D		DO :	3S	15	4		4	.1				2	2						
D		DO :		17	2		2	.0			2								
Đ	- 1	DO :		20	3		3	.1			3								
D		DO :		22	- 11	11.5	10	.2			7	2							
D	- 1	DO :		23	11	2.9	11	.2				5	6						
D		DO :		24	16		16	.3				3		12					
D	- 1	DO :		25	. 5		5	.1					5						
D		DO :		26	8		8	.1			2	5							
D	- 1	DO :		27	15		15	,3			3	7	5						
D	- 1	DO :		28	17		17	.3			12	5							
D	- 1	DO :		29	25		25	.5				25							
D		DO :		30	10		10				4		6	-			}		
D	- 1	DO :		31	9		9	.2				4	5						
D		DO :	3S	32	251		251	4.6			31	75	94	22	11	18			
D	- 1	DO :		33	15		15	.3			10	5				•	}		
D		DO		34	42		42	.8			10		32						
D		DO :	3S	36	6		6	.1						6					
D	- 1	DO :		37			10	.2			4	6		:					
D	- 1	DO :		38			22				13		9						
D		DO :	3S	39			6					6			•				
D	- 1	DO :		40	308		305	5.6			52	82	121	22	28				
D		DO :		41			15	.3			5		9						
D		DO	4S	14	4		4	.1			2		2						
D	- 1	DO ·		16			6				5								
D	- 1	DO -		17			5					5							
D		DO		18			2				2	-							
D		DO -		20			7				4	3							
		_ ~		20	· ·		,					3							

TC PLO	OGSTVB					Log	Stock	Table	- MB	F								
T05N I	R06W S24 R06W S24 R06W S24	TyTA	KE 6	1.00 8.00 1.00		Proj Acre		BUG	CK 140	.00					Page Date Time	6/1	2 8/2009 54:30P	
Spp T	So Gr rt de		Gross MBF	Def %	Net MBF	% Spc	2-3	1-5	Net Volu	ume by 8-9	Scalin		14-15	Inches 16-19	20-23	24-29	30-39	40+
D	DO 4S	21	5	1	5	.1			5									
D	DO 4S	22	2	;	2	.0			2									
D	DO 4S	24	6	;	6	,1			6									
D	DO 4S	26	6	i	6	.1			6									
D	DO 4S	27	4		4	.1			4									
D	DO 4S	28	11		11	.2			11									
D	DO 4S	34	6	i	6	.1		6										
D	Tota	ls	5,563	1.6	5,477	97.6		6	207	243	340	672	576	1520	1418	494		_
С	DO 2S	32	7		7	42.1								7				_
С	DO 3S	32	6		. 6	33.9			6						,			
С	DO 4S	14	1		1	3.9				1								
С	DO 4S	15	3		3	20.1			3									
С	Total	ls	17		17	.3			9	1				7				_
Ą	DO CF	23	13		13	11.0			13									_
A	DO CF	32	9		9	7.7			9									

16

38

254 244 37

37

377

34

706

576 1527 1418

494

8

8

14

13.6

67.6

2.1

100.0

79

117

5,610

Α

A

Total

16

18

119

5,699

2.2

1.5

1.6

DO CR 38

DO CR 40

Totals

All Species

TC	PSPCSTGR		$\mathbf{S}_{]}$	pecies,	Sort G	rade - Boar	d Fo	ot V	olum	es (P	roject)						
T	05N R06W S24 05N R06W S24 05N R06W S24	4 TyTA	KE	71.00 68.00 1.00		Project: Acres	BU	JCK 140.0)0]	Page Date Fime	6/18/20 2:52:4	009
Spp	S So Gr	% Net BdFt	Bd. Fi Def%	t. per Acro Gross	e Net	Total Net MBF		og Sc	Net Bo ale Dia. 12-16		oot Volu	Log I	ength	26.00	Ln Ft	Average Bd Ft	e Log CF/ Lf	Logs Per /Acre
D D D D	DOCU DO2S DO3S DO4S	84 14 2	1.7 .8 .7	33,457 5,813 469	32,884 5,769 465	4,604 808 65	10	1 85 90	33 15	66	1 1 1 38	2 14 52	30 39 10	68 45	8 37 32 23	414 92 31	0.00 2.31 0.84 0.49	10.0 79.5 63.0 14.8
D	Totals	98	1.6	39,739	39,118	5,477	0	14	30	56	1	4	31	63	32	234	1.61	167.3
C C C	DO2S DO3S DO4S	42 33 25		50 41 29	50 41 29	7 6 4		100 100	100		100		100 100		32 32 15	320 60 21	3.09 0.66 0.52	.2 .7 1.4
С	Totals	0		120	120	17		58	42		24		76		21	55	0,86	2.2
A	DOCR	100	1.5	848	835	117	7	64	29			11	8	81	34	80	0.73	10.5
A	Totals	2	1.5	848	835	117	7	64	29			11	8	81	34	80	0.73	10.5
Tot	als		1.6	40,707	40,073	5,610	0	16	30	54	1	5	31	64	32	223	1,55	180.0

T05	TSPCSTG	S24 T7	ГАКЕ		Species,	Sort G Projec	rade - Boai t: BUG		oot V	olur	nes (]	Гуре)] T	Page Date Time N R06	1 6/18/2 2:52:4 W S24 T	009 42PM
Tw 051	_			Tract REA1		Type TAI			Plot 38	-	_	le Tree 78	s	C 1	uFt	BdF W	rt .		
			%					Per	cent N	let B	oard Fo	ot Vol	ume			Av	erage I	Log	Logs
Spp	no.	Gr ad	Net BdFt	Bd. Def%	Ft. per Ac Gross	re Net	Total Net MBF	L 4 - 5	og Sc: 6-11			Lo ₂	g Ler 21-30	_	36-99	Ln Ft	Bd Ft	CF/ Lf	Per /Acre
D D	DO DO	CU 2S	87	2.0	51,383	50,356	3,575		1	26	73	1	3	26	71	6 37	449	0.00 2.46	12.3 112.0
D	DO	3S	12	.7	6,579	6,532	464		85	15	13	1	17	40	41	32	93	0.89	70.6
D	DO	4S	1		546	546	39	16	84			46	38	16		23	32	0.49	17.2
D	Totals		97	1.8	58,508	57,433	4,078	0	11	24	64	1	5	27	67	32	271	1.80	212.2
A	DO	CR	100	1.5	1,649	1,624	115	7	64	29			11	8	81	34	80	0.73	20.3
A	Totals		3	1.5	1,649	1,624	115	7	64	29	••••		11	8	81	34	80	0.73	20.3
C	DO	2S	42		98	98	7			100				100		32	320	3.09	.3
C	DO	38	33		79	79	6		100					100		32	60	0.66	1.3
C	DO	4S	25		56	56	. 4		100			100				15	21	0.52	2.6
C	Totals		0		233	233	17		58	42		24		76		21	55	0.86	4.3
Туре	Totals			1.8	60,389	59,290	4,210	0	13	25	62	1	5	27	67	32	250	1.69	236.8

T 7	FSPCSTG	R			Species,	, Sort G Projec	rade - Boar t: BUG		Volu	mes (T	Гуре)				I	Page Date Time	1 6/18/20 2:52:4	
T05N Tw ₁ 05N		ge	Sec	Tract AREA2		Туре ТАН			ots 15	Samp	le Tree 37	s	C 1	uFt	T05 BdF W		W S24 T	TAKE
			%					Percent	Net E	oard Fo	ot Vol	ume			Av	erage I	.og	
Spp	Ppri	Gr ad	Net BdFt	Bd. Def%	Ft. per Ac Gross	ere Net	Total Net MBF	Log S 4-5 6-1)ia. 16 17+	Log 12-20	g Ler 21 - 30	_	36-99	Ln Ft	Bđ Ft	CF/ Lf	Logs Per /Acre
D	DO	CU													10		0.00	7.4
D	DO	28	72	.6	14,477	14,384	978	1	59	40			44	56	36	319	1.91	45,1
D	DO	38	26	.8	5,003	4,962	337	85	15		2	10	38	50	33	90	0.78	55,0
D	DO	4S	2	1.9	387	380	26	100	•		27	73			22	31	0.50	12.3
D	Totals		100	.7	19,867	19,726	1,341	24	47	29	1	4	41	54	32	165	1.23	119.
Туре Т	otals			.7	19,867	19,726	1,341	24	47	29	1	4	41	54	32	165	1,23	119.8

	TSPCSTG				Species,	Sort G Projec	rade - Boai t: BUG		ot V	olun	nes (7	Гуре)	·· ,] 7	Page Date Time	1 6/18/2 2:52:4	009 12PM
T05N Tw 05N		ge	Sec	Tract ROW		Type R/W		es 00	Plot		Samp	le Tree 78	es	C 1	uFt	T05 BdI W		W S24 7	CR/W
			%					Per	cent N	Vet Bo	oard Fo	oot Vol	ume			Av	erage I	Log	Logs
Spp		Gr ad	Net BdFt	Bd. Def%	Ft. per Ac Gross	re Net	Total Net MBF	L 4-5	og Sc: 6-11	ale Di 12 - 10		Lo 12 - 20	g Lei 21-30	-	36-99	Ln Ft	Bd Ft	CF/ Lf	Per /Acre
D	DO	CU														6		0.00	12.3
D	DO	2S	87	2.0	51,383	50,356	50		1	26	73	1	3	26	71	-37	449	2.46	112.6
D	DO	38	12	.7	6,579	6,532	7		85	15		1	17	40	41	32	93	0.89	70.0
D	DO	4S	1		546	546	1	16	84			46	38	16		23	32	0.49	17.2
D	Totals		97	1.8	58,508	57,433	57	0	11	24	64	1	5	27	67	32	271	1.80	212.2
A	DO	CR	100	1.5	1,649	1,624	, 2	7	64	29			11	8	81	34	80	0.73	20.3
A	Totals		3	1.5	1,649	1,624	2	7	64	29			11	8	81	34	80	0.73	20.3
С	DO	2S	42		98	98	0		-	100				100		32	320	3.09	.3
С	DO	3S	33		79	79	0		100					100		32	60	0.66	1.3
С	DO	45	25		56	56	0		100			100				15	21	0.52	2.6
C	Totals		0		233	233	0		58	42		24		76		21	55	0.86	4.3
Туре '	Totals			1.8	60,389	59,290	59	0	13	25	62	1	5	27	67	32	250	1.69	236,8

Buck Ranch TIMBER CRUISE REPORT FY 2010

Sale Area Location: Areas 1, 2, and 3 R/W are located in portions of Section 24, T5N, R6W, W.M., Clatsop County, Oregon.

2. Fund Distribution:

BOF 100%

Tax Code

8-01 (100%)

3. Sale Acreage by Area:

Area	Treatment	Gross Acres	Existing R/W	New R/W	Non- Thinnable	Stream Buffer	Net Acres	Survey Method
1	Modified Clearcut	82	3.5	.5	0	7	71	GIS
2	Partial Cut	87	4.5	.5	10	4	68	GIS ·
3 R/W	Right-of-way	1	0	0 -	0	0	1	GIS
TOTALS		170	8	1	10	11	140	

4. Cruisers and Cruise Dates: Areas 1 and 2 were cruised by Derek Bangs, Jon Long, Jasen McCoy, Dave Wolfgram, and Lanny Freeman, June 11, 2009.

5. Cruise Method and Computation:

<u>Area 1</u> is a modified clearcut unit and was variable plot cruised using a 40.0 BAF. These plots are located on a 3 chain by 7 chain grid, with every third plot measured and graded. A total of 38 plots were sampled, with 14 measured and graded plots, and 24 count plots.

Area 2 is a partial cut thinning unit and was variable plot cruised using a 40.0 BAF. These plots are located on a 2 chain by 8 chain grid, with every third plot measured and graded. A total of 45 plots were sampled, with 16 measured and graded plots, and 29 count plots. Red alder, western hemlock, and cedar are reserve species, and were recorded as "leave" trees.

Area 3 In-Sale R/W The right-of-way volume within the harvest areas was calculated by multiplying the R/W acreage and the average volume per acre from the plots in Area 1. In-sale right-of-way totals 1 acre.

All cruisers used Corvallis MicroTechnology (CMT) and/or Allegro data collectors, and were downloaded to the Atterbury <u>Super A.C.E.</u> program in District for computing. See the attached <u>Cruise Design</u> for more details on the cruise method. The cruise calculations were processed in the Astoria district office.

<u>AREA</u>	CRUISE	TRACT	TYPE	ACRES
1	05N06W SEC 24	AREA1	TAKE	71
2	05N06W SEC 24	AREA2	TAKE	68
3 R/W	05N06W SEC 24	ROW	R/W	1

6. Timber Description

Area 1 is a modified clearcut unit, approximately 85 years-old, consisting of Douglas-fir, western redcedar, and patches of red alder. The average Douglas-fir tree size to be harvested is 24.3 inches DBH, with an average height of 95 feet to a merchantable top (6 inch d.i.b.). The average cedar tree size to be harvested is 14.0 inches DBH and 23 feet to a merchantable top (6 inch d.i.b.). The average red alder tree to be harvested is 13.9 inches DBH and 47 feet to a merchantable top (6 inch d.i.b.). The average volume per acre to be harvested (net) is 59.3 MBF.

<u>Area 2</u> is a partial cut thinning unit, approximately 85 years-old, consisting of Douglas-fir, western red cedar, and pockets of red alder. Non-thinnable pockets are scattered throughout the unit. These stands will be thinned to a SDI of 28 (140 Sq. Ft.BA), removing approximately 42 trees per acre. The average Douglas-fir tree size to be harvested is 20.6 inches DBH, with an average height of 92 feet to a merchantable top (6 inch d.i.b.). The average volume per acre to be harvested (net) is 19.7 MBF.

<u>Area 3 R/W</u> is similar to the timber description mentioned above for Area 1. The average volume (net) is approximately 59.2 MBF/acre.

7. Statistical Analysis and Stand Summary: (See "Statistics" - Type Reports, attached)

Statistics for Stand B.F. volumes

≟ l⊟ Area	Estimated CV	Target SE%	Actual CV	Actual SE%
1 (MC)	50%	10%	48.2%	7.8%
2 (PC)	50%	10%	31.4%	4.7%

8. Volumes by Species and Log Grade: (See "Species, Sort, Grade - Type and Project Reports, attached, of individual sale areas and combined areas and three cruise types). Volumes by Species and Grade for All Sale Areas: (MBF) Volumes do not include "in-growth."

Species	DBH	Net Vol.	2 Saw	3Saw	4 Saw	CampRun	% D & B	% Sale
Douglas-fir	23"	5,477	4,604	808	65		2%	98%
Western red cedar	14"	17	7	6	4		<1%	<1%
Alder	14"	117				117	2%	2%
TOTALS		5,611	4,611	814	69	. 117		

9.	Approva	ıls:
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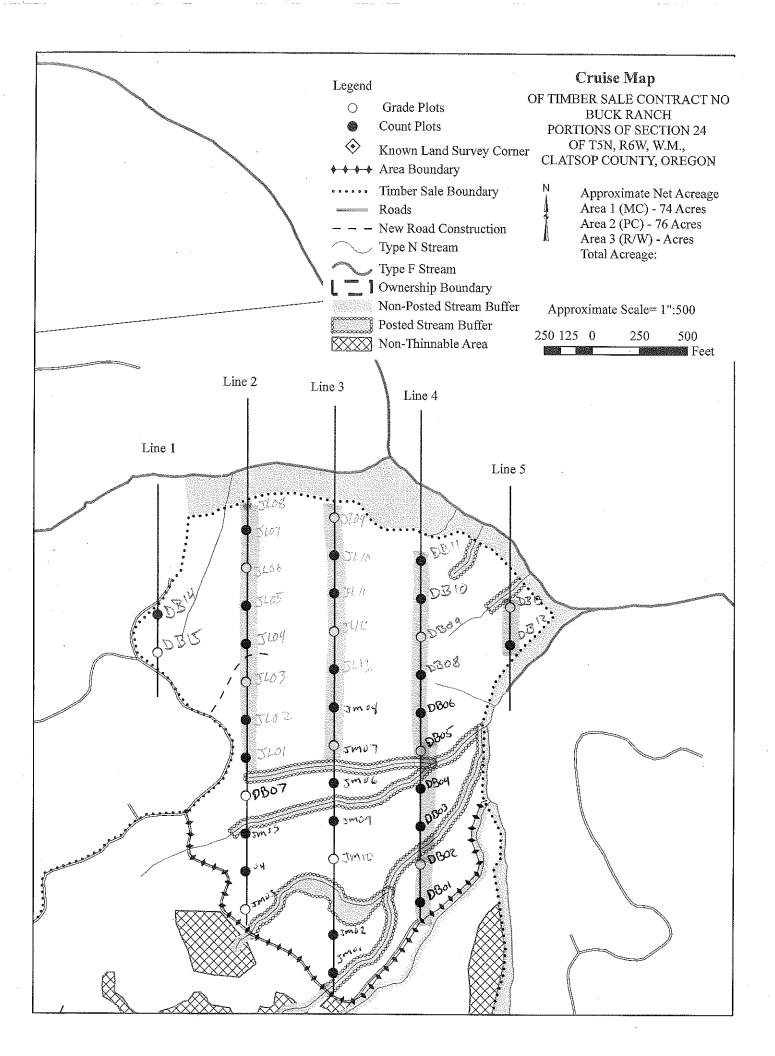
Prepared by: Derek Bangs Date: October 2, 2009

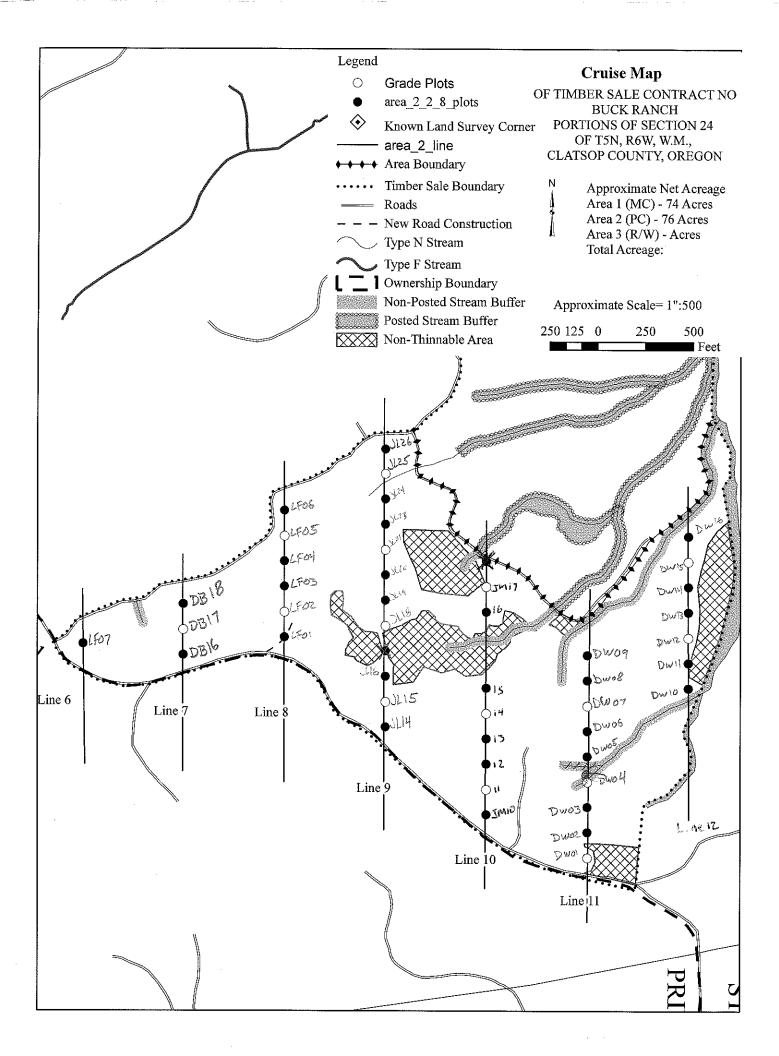
Unit Forester Approval: // Date: //////

10. Attachments:

Cruise Design - 4 pages Cruise Maps- 2 pages Volume Reports - 4 pages Statistics Reports - 7 pages Log Stock Tables - 2 pages

X:\Jewell_Unit\Timber Sales\2010\Buck_Ranch\Sale_prep\CruiseReport.doc





CRUISE DESIGN ASTORIA DISTRICT

Sale Name: Buck	Ranch		Area _	<u>1</u> .
Harvest Type: (MC)	"Modified Clear	Cut"		
Approx. Net Cruise	Acres: <u>74</u> Es	timated CV% <u>50</u> Net BF	SE% Ob	jective 10 Net BF
Planned Sale Volum	(Area 1)	Estimated Sale Area V	'alue/Acre:	\$8,100 /Ac (45 MBF/Ac.)
	cruise plots (<u>13</u> ng standards; <u>)</u>	grade/ 24 count); (c) O C Determine log grades	_	
B. <u>Cruise Design</u> : 1. Plot Cruises:	Cruise Lines 1-1 Cruise Line Spa	10 Direction(s) <u>AZ=0°/180</u> cing <u>3</u> (chains) cing <u>7</u> (chains)	<u>∟°</u> (North/So	outh)

If a cruise line ends up paralleling in a buffer offset by 1 chain and continue. Cedar are take trees. Grade and record all Wildlife trees in plots. Record snags as SN and estimate heights and diameters. Grade alder as camprun-sawlogs (30 net BF minimum).

C. Tree Measurements:

- **1. Diameter:** Minimum DBH to cruise is <u>8"</u> for conifers and <u>10"</u> for hardwoods. Record dbh to nearest ½" for trees < 16", to nearest 1" for trees 16-24", and to nearest 2" for trees > 24". If tree diameters are estimated (only estimate on variable plot cruises), then record to closest estimate.
- 2. Bole Length: Record bole length to nearest foot at TCD. For trees greater than 100 feet in merchantable height, estimating to the nearest 5 feet is acceptable.
- 3. Top Cruise Diameter (TCD): Minimum top outside bark is <u>7"</u> for conifers and <u>7"</u> for hardwoods or <u>40</u> % of dob at 16' form point. Generally, use 7" outside bark for trees < 18" dbh and 40% of dob @ FP for trees > 18" dbh.
- **4. Form Factors:** (1) Measure or estimate a 16' form factor for every conifer tree measured/graded; OR (2) Measure a minimum of 20 form factors for each major conifer species on the cruise area, and use these to calculate average FF for the species on the cruise. Hardwood form factors are a Standard 87.

- 5. Tree Segments: Record log segments in "standard" log lengths in general use, such as 32' and 40' lengths, whenever possible. Do not record odd segments just to maximize grade. Cull segments can be any length. For conifers, minimum merchantable segment length is 12'; for hardwoods, it's 8'. Maximum segment length is 40'. One foot of trim is assumed for each merch. segment. Do not use "double dash" (--) feature on the data recorder except for the top segment of the tree.
- 6. Species, Sort, and Grade Codes:
- A. <u>Species</u>: Record as D (Douglas-fir); H (Western hemlock); S (Sitka Spruce); C (Western red cedar); NF (Noble fir); SF (Silver fir); A (Red alder); M (Bigleaf maple). For "leave trees" in partial cuts, or for marked "wildlife trees," add an "L" to the species code (such as DL, HL, CL, etc.)
- B. Sort: Use code "1" (Domestic).
- C. <u>Grade</u>: A = 1 Peeler; B = 2 Peeler; C = 3 Peeler; D = Special Mill; 2 = 2 Sawmill; 3 = 3 Sawmill; 4 = 4 Sawmill; 0 = Cull R = Camprun
- 7. **Deductions:** Estimate visible defect or damage as a "length deduction" (most often), or as a "diameter deduction," as applicable. Estimate hidden defect and breakage (usually some breakage is encountered in trees > 100 feet in height) on a "per tree" basis. Steep and broken topography generally results in higher breakage percentages than gentler topography, and hemlock generally breaks more than D-fir and spruce.
- 8. Standard Field Procedures: Plot Type Cruises: Mark cruise line beginning and end points with blue/yellow flagging. Write plot identification numbers and line direction on the ribbon. At each plot, tie yellow flagging above eye level near plot center and another yellow flagging around a sturdy wooden stake marking plot center. On each yellow flagging, write the plot identification number. Between plots, along the cruise line, tie blue flagging at inter-visible points, not to exceed 100' apart. On "measure/grade" plots write the tree number and/or tree diameter on at least the first measured tree (clockwise from the line direction) in yellow paint. All trees on the plot may be marked this way, if the cruiser chooses.
- 9. Cruising Equipment: Relaskop, Rangefinder, Logger's Tape (with dbh on back) Biltmore Stick, Compass, Cruise Cards in Tatum OR Data Recorder, Cruise Design, Cruise Map, Yellow Flagging, Blue Flagging, Yellow Paint.
- **10.Attachments:** A. <u>Cruise Map</u> (showing cruise unit boundaries, roads, streams, approx. acres/unit, cruise lines and plot locations, legal description and section lines, BAF or plot size, measure/count plot ratio, north arrow, and scale.

Cruise Design b	y: <u>Dere</u> k Bangs	
Approved by: _	Son Jona	
Date:	06/82/09	

CRUISE DESIGN ASTORIA DISTRICT

Sale Name: Buck	Ranch		Area <u>2</u>	
Harvest Type: (PC)	"Automark Thinr	ning"		
Approx. Cruise Acre	es: <u>76</u> Estim	nated CV% <u>50</u> Net BF	SE% Objectiv	ve 10_ Net BF
Planned Sale Volum	1,140 MBF (Area 2)	Estimated Sale Area		2,550/Ac 5 MBF/Ac.)
	cruise plots (<u>14 </u>	grade/ <u>_32</u> _count); (c) ((Determine log grad		
B. <u>Cruise Design</u> : 1. Plot Cruises:	Cruise Lines 1-2 Cruise Line Space	22 Direction(s) <u>AZ= 0° /</u> cing <u>8</u> (chains) cing <u>2</u> (chains	`)	ith)

Basal Area leave target 140 sq. ft. Cruiser needs to select 3 to 4 leave trees per plot. Cruise all take and leave trees. If a cruise line ends up paralleling in a buffer or non-thinnable area offset by 1 chain and continue. All minor species are to be reserved. Alder will be NOT be thinned and will NOT count towards basal area. The biggest and best trees should be selected as leave trees regardless of species. Conifers 8 inches in diameter or less are reserve trees and do not count towards basal area. Record snags as SN and take heights and diameters. Grade alder as camprun-sawlogs (20 net BF minimum).

C. Tree Measurements:

- **1. Diameter:** Minimum DBH to cruise is <u>8</u>" for conifers and <u>10</u>" for hardwoods. Record dbh to nearest ½" for trees < 16", to nearest 1" for trees 16-24", and to nearest 2" for trees > 24". If tree diameters are estimated (only estimate on variable plot cruises), then record to closest estimate.
- 2. Bole Length: Record bole length to nearest foot at TCD. For trees greater than 100 feet in merchantable height, estimating to the nearest 5 feet is acceptable.
- 3. Top Cruise Diameter (TCD): Minimum top outside bark is <u>7"</u> for conifers and <u>7"</u> for hardwoods or <u>40</u> % of dob at 16' form point. Generally, use 7" outside bark for trees < 18" dbh and 40% of dob @ FP for trees > 18" dbh.
- **4. Form Factors:** (1) Measure or estimate a 16' form factor for every conifer tree measured/graded; OR (2) Measure a minimum of 20 form factors for each major

- conifer species on the cruise area, and use these to calculate average FF for the species on the cruise. Hardwood form factors are a Standard 87.
- 5. Tree Segments: Record log segments in "standard" log lengths in general use, such as 32' and 40' lengths, whenever possible. Do not record odd segments just to maximize grade. Cull segments can be any length. For conifers, minimum merchantable segment length is 12'; for hardwoods, it's 8'. Maximum segment length is 40'. One foot of trim is assumed for each merch, segment. Do not use "double dash" (--) feature on the data recorder except for the top segment of the tree.
- 6. Species, Sort, and Grade Codes:
- A. <u>Species</u>: Record as D (Douglas-fir); H (Western hemlock); S (Sitka Spruce); C (Western red cedar); NF (Noble fir); SF (Silver fir); A (Red alder); M (Bigleaf maple). For "leave trees" in partial cuts, or for marked "wildlife trees," add an "L" to the species code (such as DL, HL, CL, etc.)
- B. Sort: Use code "1" (Domestic).
- C. <u>Grade</u>: A = 1 Peeler; B = 2 Peeler; C = 3 Peeler; D = Special Mill; 2 = 2 Sawmill; 3 = 3 Sawmill; 4 = 4 Sawmill; 0 = Cull R = Camprun
- 7. Deductions: Estimate visible defect or damage as a "length deduction" (most often), or as a "diameter deduction," as applicable. Estimate hidden defect and breakage (usually some breakage is encountered in trees > 100 feet in height) on a "per tree" basis. Steep and broken topography generally results in higher breakage percentages than gentler topography, and hemlock generally breaks more than D-fir and spruce.
- 8. Standard Field Procedures: Plot Type Cruises: Mark cruise line beginning and end points with blue/yellow flagging. Write plot identification numbers and line direction on the ribbon. At each plot, tie yellow flagging above eye level near plot center and another yellow flagging around a sturdy wooden stake marking plot center. On each yellow flagging, write the plot identification number. Between plots, along the cruise line, tie blue flagging at inter-visible points, not to exceed 100' apart. On "measure/grade" plots write the tree number and/or tree diameter on at least the first measured tree (clockwise from the line direction) in yellow paint. All trees on the plot may be marked this way, if the cruiser chooses.
- **9. Cruising Equipment:** Relaskop, Rangefinder, Logger's Tape (with dbh on back) Biltmore Stick, Compass, Cruise Cards in Tatum OR Data Recorder, Cruise Design, Cruise Map, Yellow Flagging, Blue Flagging, Yellow Paint.
- **10.Attachments:** A. <u>Cruise Map</u> (showing cruise unit boundaries, roads, streams, approx. acres/unit, cruise lines and plot locations, legal description and section lines, BAF or plot size, measure/count plot ratio, north arrow, and scale.

Cruise Design	by: //, Derek Bangs
Approved by:	William)
Date:	6/09/09
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