

TECHNICAL DOCUMENTATION REPORT

**Intermountain Forest Tree
Nutrition Cooperative**

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College of Forestry, Wildlife and Range Sciences

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SECTION I**Experimental Design Statistical Models
for Eight Year Response**

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Table 1. Eight Year Net Basal Area Growth for all the Douglas-fir Installations.

DEPENDENT VARIABLE: NBA18		8 YEAR NET BASAL AREA GROWTH (SQ.FT/A)	
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE
MODEL	111	53467.12413938	481.68580306
ERROR	145	14042.28443379	96.84334127
CORRECTED TOTAL	256	67509.40862337	

MODEL F = 4.97 PR > F = 0.0001

R-SQUARE	C.V.	ROOT MSE	NBA18 MEAN
0.791995	34.5284	9.84090145	20.50089883

SOURCE	DF	TYPE I SS	F VALUE	PR > F
REGION	5	19635.45070195	40.53	0.0001
INSTALLATION(REGION)	88	30509.45364743	3.38	0.0001
TREATMENT	2	1138.53482370	5.88	0.0035
REGION X TREATMENT	10	503.36381562	0.52	0.8741
INITIAL BA	1	12.40707625	0.13	0.7209
BA X BA	1	28.85487369	0.30	0.5660
BA X TREATMENT	2	1521.46805285	7.30	0.0006
BA X BA X TREATMENT	2	117.59114810	0.61	0.5463

SOURCE	DF	TYPE III SS	F VALUE	PR > F
TREATMENT	2	162.19500728	0.84	0.4349
REGION X TREATMENT	10	887.96611461	0.92	0.5195
INITIAL BA	1	108.29067567	1.12	0.2921
BA X BA	1	115.33317941	1.19	0.2770
BA X TREATMENT	2	50.22720376	0.26	0.7719
BA X BA X TREATMENT	2	117.59114810	0.61	0.5463

Table 2. Eight Year Gross Basal Area Growth for all the Douglas-fir Installations

DEPENDENT VARIABLE: GBA18		8 YEAR GROSS BASAL AREA GROWTH (SQ.FT/A)		
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	
MODEL	111	38977.31572315	351.14698850	
ERROR	145	2868.96451359	19.78596220	
CORRECTED TOTAL	256	41846.28024274		
MODEL F =	17.75		PR > F = 0.0001	
R-SQUARE	C.V.	ROOT MSE	GBA18 MEAN	
0.931440	12.9295	4.44814143	34.40292996	
SOURCE	DF	TYPE I SS	F VALUE	PR > F
REGION	5	19227.06235578	194.35	0.0001
INSTALLATION(REGION)	88	16154.80847929	9.28	0.0001
TREATMENT	2	2675.18871587	67.60	0.0001
REGION X TREATMENT	10	606.09431553	3.06	0.0015
INITIAL BA	1	200.77835857	10.15	0.0013
BA X BA	1	27.37764547	1.38	0.2414
BA X TREATMENT	2	85.62019361	2.16	0.1186
BA X BA X TREATMENT	2	0.38565903	0.01	0.9903
SOURCE	DF	TYPE III SS	F VALUE	PR > F
TREATMENT	2	55.46414454	1.40	0.2495
REGION X TREATMENT	10	544.96059971	2.75	0.0039
INITIAL BA	1	80.85355754	4.09	0.0451
BA X BA	1	32.33492954	1.63	0.2032
BA X TREATMENT	2	2.06610009	0.05	0.9491
BA X BA X TREATMENT	2	0.38565903	0.01	0.9903

Table 3. Eight Year Net Volume Growth for all the Douglas-fir Installations

DEPENDENT VARIABLE: NVI8		8 YEAR NET VOLUME GROWTH (CU.FT/A)		
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	
MODEL	111	65092185.87937640	586416.08900341	
ERROR	145	15048092.04844350	103779.94516171	
CORRECTED TOTAL	256	80140277.92782690		
MODEL F =	5.65		PR > F = 0.0001	
R-SQUARE	C.V.	ROOT MSE	NVI8 MEAN	
0.812228	28.4903	322.14834872	1130.73284047	
SOURCE	DF	TYPE I SS	F VALUE	PR > F
REGION	5	34116520.42939400	65.75	0.0001
INSTALLATION (REGION)	88	26382498.55145170	2.39	0.0001
TREATMENT	2	1383463.57513236	6.67	0.0017
REGION X TREATMENT	10	1026007.02450688	0.99	0.4560
INITIAL BA	1	886075.58195804	8.54	0.0040
BA X BA	1	156085.42854238	1.50	0.2220
BA X TREATMENT	2	1111862.74517978	5.36	0.0057
BA X BA X TREATMENT	2	29672.54321336	0.14	0.8669
SOURCE	DF	TYPE III SS	F VALUE	PR > F
TREATMENT	2	111421.49455524	0.54	0.5856
REGION X TREATMENT	10	1283221.33724196	1.24	0.2720
INITIAL BA	1	528633.01695270	5.09	0.0255
BA X BA	1	276611.45758210	2.67	0.1047
BA X TREATMENT	2	9918.42932713	0.05	0.9534
BA X BA X TREATMENT	2	29672.54321336	0.14	0.8669

Table 4. Eight Year Gross Volume Growth for all the Douglas-fir Installations.

DEPENDENT VARIABLE: GVI8		8 YEAR GROSS VOLUME GROWTH (CU.FT/A)		
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	
MODEL	111	59127780.03309400	532662.70300085	
ERROR	145	4017921.52617754	27709.60362831	
CORRECTED TOTAL	256	63145701.55927150		
MODEL F =		19.22	PR > F = 0.0001	
R-SQUARE	C.V.	ROOT MSE	GVI8 MEAN	
0.936371	12.9169	166.46261931	1268.72307393	
SOURCE	DF	TYPE I SS	F VALUE	PR > F
REGION	5	33081956.68885210	238.77	0.0001
INSTALLATION(REGION)	88	20189820.35038050	8.28	0.0001
TREATMENT	2	2815982.79469072	50.31	0.0001
REGION X TREATMENT	10	933604.20381851	3.37	0.0006
INITIAL BA	1	2034466.91533325	73.42	0.0001
BA X BA	1	34455.98608997	1.24	0.2667
BA X TREATMENT	2	23155.37003328	0.42	0.6593
BA X BA X TREATMENT	2	14337.72389569	0.26	0.7724
SOURCE	DF	TYPE III SS	F VALUE	PR > F
TREATMENT	2	34904.96511721	0.63	0.5341
REGION X TREATMENT	10	792994.69948401	2.86	0.0023
INITIAL BA	1	291800.53482874	10.53	0.0015
BA X BA	1	33315.27868846	1.20	0.2747
BA X TREATMENT	2	17491.04177913	0.32	0.7293
BA X BA X TREATMENT	2	14337.72389569	0.26	0.7724

Table 5. Change in Mean Diameter after Eight Years for all the Douglas-fir Installations

DEPENDENT VARIABLE: DELTAD8 8 YEAR CHANGE IN MEAN DIAMETER (IN)				
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	
MODEL	111	47.73779135	0.43007020	
ERROR	145	10.13082527	0.06980776	
CORRECTED TOTAL	256	57.86861712		
MODEL F =	6.16		PR > F = 0.0001	
R-SQUARE	C.V.	ROOT MSE	DELTAD8 MEAN	
0.824934	19.3670	0.26432510	1.36482490	
SOURCE	DF	TYPE I SS	F VALUE	PR > F
REGION	5	8.91612991	25.52	0.0001
INSTALLATION(REGION)	88	30.93061221	5.03	0.0001
TREATMENT	2	4.79158643	34.29	0.0001
REGION X TREATMENT	10	1.02735435	1.47	0.1561
INITIAL BA	1	1.64791495	23.59	0.0001
BA X BA	1	0.04520830	0.65	0.4225
BA X TREATMENT	2	0.19981642	1.43	0.2427
BA X BA X TREATMENT	2	0.17916928	1.28	0.2306
SOURCE	DF	TYPE III SS	F VALUE	PR > F
TREATMENT	2	0.48496157	3.47	0.0337
REGION X TREATMENT	10	1.01609834	1.45	0.1625
INITIAL BA	1	0.35126714	5.03	0.0265
BA X BA	1	0.07791824	1.12	0.2927
BA X TREATMENT	2	0.22180273	1.59	0.2080
BA X BA X TREATMENT	2	0.17916928	1.28	0.2805

Table 6. Eight Year Average Height Growth for all the Douglas-fir Installations.

DEPENDENT VARIABLE: HTINC8 8 YEAR AVERAGE HEIGHT GROWTH (FT)

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE
MODEL	111	1310.00790557	11.80187502
ERROR	145	96.28171777	0.66401185
CORRECTED TOTAL	256	1406.28962335	

MODEL F = 17.77 PR > F = 0.0001

R-SQUARE	C.V.	ROOT MSE	HTINC8 MEAN
0.931535	11.0887	0.81486922	7.34863813

SOURCE	DF	TYPE I SS	F VALUE	PR > F
REGION	5	422.74410120	127.33	0.0001
INSTALLATION(REGION)	88	815.72512215	13.96	0.0001
TREATMENT	2	50.20685064	37.81	0.0001
REGION X TREATMENT	10	16.19519077	2.44	0.0102
INITIAL BA	1	2.64066458	3.98	0.0480
BA X BA	1	0.20037332	0.30	0.5836
BA X TREATMENT	2	1.57216299	1.18	0.3090
BA X BA X TREATMENT	2	0.72343493	0.54	0.5812

SOURCE	DF	TYPE III SS	F VALUE	PR > F
TREATMENT	2	2.70308668	2.04	0.1343
REGION X TREATMENT	10	12.19212266	1.84	0.0592
INITIAL BA	1	0.01257603	0.02	0.8907
BA X BA	1	0.31834451	0.43	0.4898
BA X TREATMENT	2	1.11590833	0.84	0.4337
BA X BA X TREATMENT	2	0.72343493	0.54	0.5812

Table 7. Net Basal Area Increment in the First Two Years for all the Douglas-fir Installations

DEPENDENT VARIABLE: NBPAIP1 NET BASAL AREA PAI--PERIOD 1				
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	
MODEL	111	968.94076885	8.72919612	
ERROR	149	165.78793363	1.11267070	
CORRECTED TOTAL	260	1134.72870253		
MODEL F =	7.85		PR > F = 0.0001	
R-SQUARE	C.V.	ROOT MSE	NBPAIP1 MEAN	
0.853896	21.3654	1.05483207	4.93709834	
SOURCE	DF	TYPE I SS	F VALUE	PR > F
REGION	5	328.14822045	58.98	0.0001
INSTALLATION(REGION)	88	503.23198468	5.14	0.0001
TREATMENT	2	106.76062169	47.97	0.0001
REGION X TREATMENT	10	13.37472898	1.20	0.2941
INITIAL BA	1	11.02180965	9.91	0.0020
BA X BA	1	2.20753717	1.98	0.1611
BA X TREATMENT	2	3.62678720	1.63	0.1994
BA X BA X TREATMENT	2	0.56907902	0.26	0.7747
SOURCE	DF	TYPE III SS	F VALUE	PR > F
TREATMENT	2	0.66023624	0.50	0.7437
REGION X TREATMENT	10	10.83605979	0.97	0.4686
INITIAL BA	1	5.96303907	5.36	0.0220
BA X BA	1	2.87761465	2.59	0.1099
BA X TREATMENT	2	0.28186407	0.13	0.8811
BA X BA X TREATMENT	2	0.56907902	0.26	0.7747

Table 8. Net Basal Area Increment in the Second Two Years for all the Douglas-fir Installations

DEPENDENT VARIABLE: NBPAIP2 NET BASAL AREA PAI--PERIOD 2

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE
MODEL	111	2163.73845221	19.49313921
ERROR	149	1107.32937204	7.43174075
CORRECTED TOTAL	260	3271.06782425	

MODEL F = 2.62 PR > F = 0.0001

R-SQUARE	C.V.	ROOT MSE	NBPAIP2 MEAN
0.661473	76.7598	2.72612193	3.55149808

SOURCE	DF	TYPE I SS	F VALUE	PR > F
REGION	5	364.76334338	9.82	0.0001
INSTALLATION(REGION)	88	1631.53792900	2.49	0.0001
TREATMENT	2	14.82431265	1.00	0.3713
REGION X TREATMENT	10	35.93961595	0.43	0.8987
INITIAL BA	1	7.08333236	0.95	0.3305
BA X BA	1	8.66305168	1.17	0.2820
BA X TREATMENT	2	80.71946161	5.43	0.0053
BA X BA X TREATMENT	2	20.20740558	1.36	0.2599

SOURCE	DF	TYPE III SS	F VALUE	PR > F
TREATMENT	2	22.36179374	1.50	0.2255
REGION X TREATMENT	10	52.14442339	0.70	0.7218
INITIAL BA	1	0.44994490	0.06	0.8060
BA X BA	1	1.46804560	0.20	0.6574
BA X TREATMENT	2	17.76252239	1.20	0.3056
BA X BA X TREATMENT	2	20.20740558	1.36	0.2599

Table 9. Net Basal Area Increment in the Third Two Years for all the Douglas-fir Installations

DEPENDENT VARIABLE: NBPAIP3 NET BASAL AREA PAI--PERIOD 3				
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	
MODEL	111	1529.54248125	13.77966199	
ERROR	149	788.31234616	5.29063683	
CORRECTED TOTAL	260	2317.85482742		
MODEL F =	2.60		PR > F = 0.0001	
R-SQUARE	C.V.	ROOT MSE	NBPAIP3 MEAN	
0.659396	77.3592	2.30014932	2.97333525	
SOURCE	DF	TYPE I SS	F VALUE	PR > F
REGION	5	375.57327342	14.20	0.0001
INSTALLATION(REGION)	88	1027.60242615	2.21	0.0001
TREATMENT	2	6.95128085	0.66	0.5199
REGION X TREATMENT	10	29.01223421	0.55	0.8532
INITIAL BA	1	0.08229180	0.02	0.9009
BA X BA	1	0.13461128	0.03	0.8735
BA X TREATMENT	2	83.28121352	7.37	0.0006
BA X BA X TREATMENT	2	6.90514503	0.65	0.5222
SOURCE	DF	TYPE III SS	F VALUE	PR > F
TREATMENT	2	0.47093026	0.04	0.9565
REGION X TREATMENT	10	32.79601586	0.62	0.7952
INITIAL BA	1	0.49804530	0.09	0.7594
BA X BA	1	1.11094122	0.21	0.6475
BA X TREATMENT	2	0.65594689	0.06	0.9399
BA X BA X TREATMENT	2	6.90514503	0.65	0.5222

Table 10. Net Basal Area Increment in the Fourth Two Years for all the Douglas-fir Installations

DEPENDENT VARIABLE: NBPAIP4 NET BASAL AREA PAI--PERIOD 4

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE
MODEL	111	1679.94166913	15.13460963
ERROR	145	834.82008649	5.75737921
CORRECTED TOTAL	256	2514.76175561	

MODEL F = 2.63 PR > F = 0.0001

R-SQUARE	C.V.	ROOT MSE	NBPAIP4 MEAN
0.668032	35.3354	2.39945409	2.61179183

SOURCE	DF	TYPE I SS	F VALUE	PR > F
REGION	5	408.03894545	14.17	0.0001
INSTALLATION(REGION)	88	1169.30926452	2.31	0.0001
TREATMENT	2	2.90003007	0.25	0.7777
REGION X TREATMENT	10	58.32961376	1.02	0.4280
INITIAL BA	1	10.39439902	1.81	0.1812
BA X BA	1	25.28631052	4.39	0.0378
BA X TREATMENT	2	4.83368542	0.42	0.6580
BA X BA X TREATMENT	2	0.34921537	0.03	0.9701

SOURCE	DF	TYPE III SS	F VALUE	PR > F
TREATMENT	2	0.18307348	0.02	0.9842
REGION X TREATMENT	10	63.52545143	1.10	0.3635
INITIAL BA	1	12.22573131	2.12	0.1472
BA X BA	1	19.40985852	3.37	0.0634
BA X TREATMENT	2	0.05915507	0.01	0.9949
BA X BA X TREATMENT	2	0.34921537	0.03	0.9701

Table 11. Gross Basal Area Increment in the First Two Years for all the Douglas-fir Installations.

DEPENDENT VARIABLE: GBPAIP1 GROSS BASAL AREA PAT--PERIOD 1

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE
MODEL	111	952.37218309	8.57992958
ERROR	149	92.25601508	0.61916789
CORRECTED TOTAL	260	1044.62819877	

MODEL F = 13.80 PR > F = 0.0001

R-SQUARE	C.V.	ROOT MSE	GBPAIP1 MEAN
0.911685	15.4400	0.78637222	5.09632695

SOURCE	DF	TYPE I SS	F VALUE	PR > F
REGION	5	334.72148167	108.12	0.0001
INSTALLATION(REGION)	88	472.49953068	3.67	0.0001
TREATMENT	2	117.43523943	94.33	0.0001
REGION X TREATMENT	10	17.53835479	2.83	0.0030
INITIAL BA	1	6.66913668	10.77	0.0013
BA X BA	1	1.32403230	2.14	0.1458
BA X TREATMENT	2	1.83574301	1.48	0.2304
BA X BA X TREATMENT	2	0.34966512	0.28	0.7544

SOURCE	DF	TYPE III SS	F VALUE	PR > F
TREATMENT	2	1.02594441	0.83	0.4387
REGION X TREATMENT	10	15.15932694	2.43	0.0098
INITIAL BA	1	3.18745706	5.15	0.0247
BA X BA	1	1.40610692	2.27	0.1339
BA X TREATMENT	2	0.10132889	0.08	0.9215
BA X BA X TREATMENT	2	0.34966512	0.28	0.7544

Table 12. Gross Basal Area Increment in the Second Two Years for all the Douglas-fir Installations

DEPENDENT VARIABLE: GBPAIP2 GROSS BASAL AREA PAI--PERIOD 2				
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	
MODEL	111	708.87595173	6.33620984	
ERROR	149	66.35726309	0.44535076	
CORRECTED TOTAL	260	775.23321483		
MODEL F =	14.34		PR > F = 0.0001	
R-SQUARE	C.V.	ROOT MSE	GBPAIP2 MEAN	
0.914403	14.6325	0.66734606	4.56070690	
SOURCE	DF	TYPE I SS	F VALUE	PR > F
REGION	5	303.63392489	136.36	0.0001
INSTALLATION (REGION)	88	319.93096869	8.16	0.0001
TREATMENT	2	56.63065615	63.58	0.0001
REGION X TREATMENT	10	18.66783095	4.19	0.0001
INITIAL BA	1	5.92465612	13.30	0.0004
BA X BA	1	1.06731207	2.40	0.1237
BA X TREATMENT	2	2.75314466	3.09	0.0484
BA X BA X TREATMENT	2	0.26745821	0.30	0.7411
SOURCE	DF	TYPE III SS	F VALUE	PR > F
TREATMENT	2	2.96589046	3.33	0.0385
REGION X TREATMENT	10	17.23943504	3.87	0.0001
INITIAL BA	1	2.90379776	6.52	0.0117
BA X BA	1	1.27306467	2.86	0.0930
BA X TREATMENT	2	0.59837471	0.67	0.5123
BA X BA X TREATMENT	2	0.26745821	0.30	0.7411

Table 13. Gross Basal Area Increment in the Third Two Years for all the Douglas-fir Installations

DEPENDENT VARIABLE: GBPAIP3 GROSS BASAL AREA PAI--PERIOD 3				
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	
MODEL	111	624.73457169	5.62823933	
ERROR	149	46.46233184	0.31182773	
CORRECTED TOTAL	260	671.19690353		
MODEL F =	18.05		PR > F = 0.0001	
R-SQUARE	C.V.	ROOT MSE	GBPAIP3 MEAN	
0.930777	14.5920	0.55841537	3.82686207	
SOURCE	DF	TYPE I SS	F VALUE	PR > F
REGION	5	316.53571723	203.02	0.0001
INSTALLATION(REGION)	88	282.04280568	10.28	0.0001
TREATMENT	2	14.81979759	23.76	0.0001
REGION X TREATMENT	10	7.62723813	2.45	0.0000
INITIAL BA	1	2.77475367	8.90	0.0033
BA X BA	1	0.26782682	0.86	0.3555
BA X TREATMENT	2	0.66362874	1.06	0.3476
BA X BA X TREATMENT	2	0.00279879	0.00	0.9955
SOURCE	DF	TYPE III SS	F VALUE	PR > F
TREATMENT	2	0.34678325	0.56	0.5747
REGION X TREATMENT	10	6.23675556	2.00	0.0370
INITIAL BA	1	0.98602188	3.16	0.0774
BA X BA	1	0.36165511	1.16	0.2832
BA X TREATMENT	2	0.03335065	0.05	0.9479
BA X BA X TREATMENT	2	0.00279879	0.00	0.9955

Table 14. Gross Basal Area Increment in the Fourth Two Years for all the Douglas-fir Installations.

DEPENDENT VARIABLE: GBPAIP4 GROSS BASAL AREA PAT--PERIOD 4				
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	
MODEL	111	563.02389678	5.07223736	
ERROR	145	33.91259677	0.23337996	
CORRECTED TOTAL	256	596.93649355		
MODEL F =	21.63		PR > F = 0.0001	
R-SQUARE	C.V.	ROOT MSE	GBPAIP4 MEAN	
0.943189	13.0574	0.48361139	3.70374319	
SOURCE	DF	TYPE I SS	F VALUE	PR > F
REGION	5	298.02111046	254.85	0.0001
INSTALLATION (REGION)	88	247.53206428	12.03	0.0001
TREATMENT	2	10.70623018	22.39	0.0001
REGION X TREATMENT	10	4.97530906	2.13	0.0256
INITIAL BA	1	1.05846976	4.53	0.0351
BA X BA	1	0.06206587	0.27	0.6072
BA X TREATMENT	2	0.60642163	1.30	0.2767
BA X BA X TREATMENT	2	0.06222549	0.13	0.8755
SOURCE	DF	TYPE III SS	F VALUE	PR > F
TREATMENT	2	0.30089783	0.64	0.5271
REGION X TREATMENT	10	4.74733573	2.03	0.0342
INITIAL BA	1	0.25431310	1.09	0.2988
BA X BA	1	0.06882051	0.29	0.5883
BA X TREATMENT	2	0.08427691	0.18	0.8353
BA X BA X TREATMENT	2	0.06222549	0.13	0.8755

SECTION II

Experimental Design Statistical Models for Two Year Douglas-fir Retreatment Response

- Table 1. Two Year Net Basal Area Growth for all the Retreatment Douglas-fir Installations
- Table 2. Two Year Gross Basal Area Growth for all the Retreatment Douglas-fir Installations
- Table 3. Two Year Net Volume Growth for all the Retreatment Douglas-fir Installations
- Table 4. Two Year Gross Volume Growth for all the Retreatment Douglas-fir Installations
- Table 5. Change in Mean Diameter after Two Years for all the Retreatment Douglas-fir Installations

Table 1. Two Year Net Basal Area Growth for all the Retreatment Douglas-fir Installations

DEPENDENT VARIABLE: NBAI		2 YEAR NET BASAL AREA GROWTH		
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	
MODEL	147	14867.16011792	101.13714366	
ERROR	388	10363.29363411	26.70953256	
CORRECTED TOTAL	535	25230.45875209		
MODEL F =	3.79		PR > F = 0.0001	
R-SQUARE	C.V.	ROOT MSE	NBAI MEAN	
0.509254	37.5963	5.16612660	5.39994030	
SOURCE	DF	TYPE I SS	F VALUE	PR > F
REGION	5	5640.82624521	42.24	0.0001
INSTALLATION (REGION)	34	7681.83335554	3.42	0.0001
TREATMENT	7	213.59149766	1.14	0.3356
REGION*TREATMENT	35	870.58493093	0.93	0.5640
INITIAL BA	1	2.53976093	0.10	0.7580
BA X BA	1	11.33459803	0.42	0.5152
BA X TREATMENT	7	335.27809826	1.79	0.0872
BA X BA X TREATMENT	7	111.17163142	0.59	0.7604
SOURCE	DF	TYPE III SS	F VALUE	PR > F
TREATMENT	7	20.44846623	0.11	0.9977
REGION*TREATMENT	35	840.02963121	0.90	0.6374
INITIAL BA	1	37.69869420	1.41	0.2355
BA X BA	1	36.64078024	1.37	0.2422
BA X TREATMENT	7	53.07188121	0.28	0.9601
BA X BA X TREATMENT	7	111.17163142	0.59	0.7604

Table 2. Two Year Gross Basal Area Growth for all the Retreatment Douglas-fir Installations

DEPENDENT VARIABLE: GBAI		2 YEAR GROSS BASAL AREA GROWTH		
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	
MODEL	147	6593.38400304	44.85295240	
ERROR	388	511.62499696	1.31362113	
CORRECTED TOTAL	535	7105.00900000		
MODEL F =	34.02			PR > F = 0.0001
R-SQUARE	C.V.	ROOT MSE	GBAI MEAN	
0.927991	14.1583	1.14831229	8.11050187	
SOURCE	DF	TYPE I SS	F VALUE	PR > F
REGION	5	3474.70741248	527.02	0.0001
INSTALLATION (REGION)	84	2653.94102535	23.96	0.0001
TREATMENT	7	241.43359434	26.16	0.0001
REGION*TREATMENT	35	105.86111327	2.29	0.0001
INITIAL BA	1	86.30123533	65.45	0.0001
BA X BA	1	0.90096917	0.68	0.4090
BA X TREATMENT	7	9.01460629	0.92	0.4478
BA X BA X TREATMENT	7	21.22404180	2.30	0.0263
SOURCE	DF	TYPE III SS	F VALUE	PR > F
TREATMENT	7	13.43265535	1.46	0.1798
REGION*TREATMENT	35	99.13217169	2.15	0.0003
INITIAL BA	1	22.64762929	17.13	0.0001
BA X BA	1	8.57358978	6.50	0.0112
BA X TREATMENT	7	15.50786923	1.68	0.1123
BA X BA X TREATMENT	7	21.22404180	2.30	0.0263

Table 3. Two Year Net Volume Growth for all the Retreatment Douglas-fir Installations

DEPENDENT VARIABLE: NVI		2 YEAR NET VOLUME GROWTH	
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE
MODEL	147	19050137.26203130	129592.77049613
ERROR	388	10798948.52643270	27832.34156297
CORRECTED TOTAL	535	29849085.78936400	
MODEL F =	4.66		PR > F = 0.0001
R-SQUARE	C.V.	ROOT MSE	NVI MEAN
0.638215	62.3922	166.33027772	267.38973881

SOURCE	DF	TYPE I SS	F VALUE	PR > F
REGION	5	9272371.39498391	66.63	0.0001
INSTALLATION (REGION)	34	7584919.67453070	3.24	0.0001
TREATMENT	7	370935.14512010	1.90	0.0677
REGION*TREATMENT	35	903432.13592461	0.93	0.5904
INITIAL BA	1	205072.22374217	7.37	0.0069
BA X BA	1	18608.41550313	0.67	0.4140
BA X TREATMENT	7	492341.18321114	2.53	0.0149
BA X BA X TREATMENT	7	202456.48986047	1.04	0.4030

SOURCE	DF	TYPE III SS	F VALUE	PR > F
TREATMENT	7	46930.11524414	0.24	0.9749
REGION*TREATMENT	35	782664.26105025	0.80	0.7820
INITIAL BA	1	98436.23110187	3.54	0.0608
BA X BA	1	50004.60433445	1.80	0.1809
BA X TREATMENT	7	101364.64556764	0.52	0.8193
BA X BA X TREATMENT	7	202456.48986047	1.04	0.4030

Table 4. Two Year Gross Volume Growth for all the Retreatment Douglas-fir Installations

DEPENDENT VARIABLE: GVI		2 YEAR GROSS VOLUME GROWTH		
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	
MODEL	147	12145479.96560250	82622.31269117	
ERROR	388	769844.42117090	1984.13510613	
CORRECTED TOTAL	535	12915324.38677940		
MODEL F =	41.64			PR > F = 0.0001
R-SQUARE	C.V.	ROOT MSE	GVI MEAN	
0.940303	13.6170	44.54363149	327.11361940	
SOURCE	DF	TYPE I SS	F VALUE	PR > F
REGION	5	7274940.86297292	733.31	0.0001
INSTALLATION (REGION)	84	3704432.40370715	22.23	0.0001
TREATMENT	7	397068.06693439	28.59	0.0001
REGION*TREATMENT	35	191063.06399046	2.75	0.0001
INITIAL BA	1	527314.54792342	265.77	0.0001
BA X BA	1	47.02639508	0.02	0.8777
BA X TREATMENT	7	21405.84059999	1.54	0.1518
BA X BA X TREATMENT	7	29208.14307405	2.10	0.0424
SOURCE	DF	TYPE III SS	F VALUE	PR > F
TREATMENT	7	19508.30379875	1.40	0.2019
REGION*TREATMENT	35	139096.37233032	2.00	0.0009
INITIAL BA	1	46603.32654644	23.49	0.0001
BA X BA	1	4207.55161609	2.12	0.1461
BA X TREATMENT	7	21254.45416314	1.53	0.1554
BA X BA X TREATMENT	7	29208.14307405	2.10	0.0424

Table 5. Change in Mean Diameter after Two Years for all the Retreatment Douglas-fir Installations

DEPENDENT VARIABLE: DELTAD 2 YEAR CHANGE IN MEAN DIAMETER				
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	
MODEL	147	6.50272704	0.04423624	
ERROR	388	6.39046770	0.01647023	
CORRECTED TOTAL	535	12.89319534		
MODEL F =	2.69		2P > F = 0.0001	
R-SQUARE	C.V.	ROOT MSE	DELTAD MEAN	
0.504353	39.4763	0.12833058	0.32509323	
SOURCE	DF	TYPE I SS	F VALUE	PR > F
REGION	5	1.07203021	13.02	0.0001
INSTALLATION(REGION)	84	3.60714846	2.61	0.0001
TREATMENT	7	0.40152211	3.48	0.0012
REGION*TREATMENT	35	1.00222261	1.74	0.0070
INITIAL BA	1	0.09185060	5.56	0.0187
BA X BA	1	0.00306736	0.19	0.6650
BA X TREATMENT	7	0.10239863	0.89	0.5157
BA X BA X TREATMENT	7	0.22246760	1.93	0.0638
SOURCE	DF	TYPE III SS	F VALUE	PR > F
TREATMENT	7	0.19346740	1.63	0.1126
REGION*TREATMENT	35	1.11242441	1.93	0.0016
INITIAL BA	1	0.00952615	0.53	0.4474
BA X BA	1	0.00113651	0.07	0.7885
BA X TREATMENT	7	0.21499535	1.86	0.0741
BA X BA X TREATMENT	7	0.22246760	1.93	0.0638

SECTION III

Experimental Design Statistical Models for Eight Year Response Versus Potassium Condition Types

- Table 1. Eight Year Net Basal Area Growth Versus Potassium Condition Types
- Table 2. Eight Year Gross Basal Area Growth Versus Potassium Condition Types
- Table 3. Eight Year Net Volume Growth Versus Potassium Condition Types
- Table 4. Eight Year Gross Volume Growth Versus Potassium Condition Types

Table 1. Eight Year Net Basal Area Growth Versus Potassium Condition Types

NBAI		8 YEAR NET BASAL AREA GROWTH (SQ.FT/A)		
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	
MODEL	90	56155.36423503	623.94849150	
ERROR	163	13734.61296970	84.26142926	
CORRECTED TOTAL	253	69889.97720473		
MODEL F =	7.40		PR > F = 0.0001	
R-SQUARE	C.V.	ROOT MSE	NBAI MEAN	
0.803482	31.7440	9.17940245	28.91692913	
SOURCE	DF	TYPE I SS	F VALUE	PR > F
KTYPE	2	363.53898965	2.16	0.1189
INSTALLATION(KTYPE)	82	54579.30488174	7.90	0.0001
TREATMENT	2	847.62769211	5.03	0.0076
KTYPE*TREATMENT	4	364.89267153	1.08	0.3669
SOURCE	DF	TYPE III SS	F VALUE	PR > F
TREATMENT	2	243.38206812	1.44	0.2389
KTYPE*TREATMENT	4	364.89267153	1.08	0.3669

Table 2. Eight Year Gross Basal Area Growth Versus Potassium Condition Types

GBAI 8 YEAR GROSS BASAL AREA GROWTH (SQ.FT/A)				
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	
MODEL	90	44507.72122025	494.53023578	
ERROR	163	3572.73740180	21.91863437	
CORRECTED TOTAL	253	48080.45862205		
MODEL F =	22.56		PR > F = 0.0001	
R-SQUARE	C.V.	ROOT MSE	GBAI MEAN	
0.925693	13.1534	4.68173412	35.59330709	
SOURCE	DF	TYPE I SS	F VALUE	PR > F
KTYPE	2	978.27077283	22.32	0.0001
INSTALLATION(KTYPE)	82	41230.70118256	22.94	0.0001
TREATMENT	2	2088.28013819	47.64	0.0001
KTYPE*TREATMENT	4	210.46912668	2.40	0.0521
SOURCE	DF	TYPE III SS	F VALUE	PR > F
TREATMENT	2	686.22663693	15.65	0.0001
KTYPE*TREATMENT	4	210.46912668	2.40	0.0521

Table 3. Eight Year Net Volume Growth Versus Potassium Condition Types

NVI		8 YEAR NET VOLUME GROWTH (CU.FT/A)		
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	
MODEL	90	72114967.50840470	801277.41676005	
ERROR	163	11139155.66088660	68338.37828765	
CORRECTED TOTAL	253	83254123.16929140		
MODEL F =	11.73		PR > F = 0.0001	
R-SQUARE	C.V.	ROOT MSE	NVI MEAN	
0.866203	22.1599	261.41610181	1179.68110236	
SOURCE	DF	TYPE I SS	F VALUE	PR > F
KTYPE	2	433311.21907182	3.17	0.0446
INSTALLATION(KTYPE)	82	70127912.61788580	12.51	0.0001
TREATMENT	2	1307357.26283846	9.57	0.0001
KTYPE*TREATMENT	4	246386.40960822	0.90	0.4646
SOURCE	DF	TYPE III SS	F VALUE	PR > F
TREATMENT	2	413564.37800449	3.03	0.0513
KTYPE*TREATMENT	4	246386.40960822	0.90	0.4646

Table 4. Eight Year Gross Volume Growth Versus Potassium Condition Types

GVI		8 YEAR GROSS VOLUME GROWTH (CU.FT/A)		
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	
MODEL	90	67324623.38144620	748051.37090496	
ERROR	163	2834416.60280585	17389.05891292	
CORRECTED TOTAL	253	70159039.98425200		
MODEL F =	43.02		PR > F = 0.0001	
R-SQUARE	C.V.	ROOT MSE	GVI MEAN	
0.959600	9.6891	131.86758098	1360.99212598	
SOURCE	DF	TYPE I SS	F VALUE	PR > F
KTYPE	2	1597670.42078191	45.94	0.0001
INSTALLATION(KTYPE)	82	63112935.56346950	44.26	0.0001
TREATMENT	2	2536114.02166199	72.92	0.0001
KTYPE*TREATMENT	4	77903.37553217	1.12	0.3489
SOURCE	DF	TYPE III SS	F VALUE	PR > F
TREATMENT	2	1188901.81409785	34.19	0.0001
KTYPE*TREATMENT	4	77903.37553217	1.12	0.3489

SECTION IV

Experimental Design Statistical Models for Two Year Response Versus Potassium Condition Type

- Table 1. Two Year Net Basal Area Growth Versus Potassium Condition Types
- Table 2. Two Year Gross Basal Area Growth Versus Potassium Condition Types
- Table 3. Two Year Net Volume Growth Versus Potassium Condition Type
- Table 4. Two Year Gross Volume Growth Versus Potassium Condition Type

Table 1. Two Year Net Basal Area Growth Versus Potassium Condition Types

NBAI		2 YEAR NET BASAL AREA GROWTH (SQ.FT/A)		
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	
MODEL	105	15076.31990755	143.58399912	
ERROR	396	15938.41937532	40.24853378	
CORRECTED TOTAL	501	31014.73928287		
MODEL F =	3.57		PR > F = 0.0001	
R-SQUARE	C.V.	ROOT MSE	NBAI MEAN	
0.486102	111.3246	6.34417321	5.69880478	
SOURCE	DF	TYPE I SS	F VALUE	PR > F
KTYPE	2	48.62850541	0.60	0.5471
INSTALLATION(KTYPE)	82	14265.29211079	4.32	0.0001
TREATMENT	7	164.06293005	0.58	0.7704
KTYPE*TREATMENT	14	598.33636130	1.06	0.3910
SOURCE	DF	TYPE III SS	F VALUE	PR > F
TREATMENT	7	101.79471592	0.36	0.9243
KTYPE*TREATMENT	14	598.33636130	1.06	0.3910

Table 2. Two Year Gross Basal Area Growth Versus Potassium Condition Types

GBAI 2 YEAR GROSS BASAL AREA GROWTH (SQ.FT/A)				
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	
MODEL	105	6138.68447738	58.46366169	
ERROR	396	575.14367003	1.45258301	
CORRECTED TOTAL	501	6713.82814741		
MODEL F =	40.25		PR > F = 0.0001	
R-SQUARE	C.V.	ROOT MSE	GBAI MEAN	
0.914334	14.6503	1.20514854	8.22609562	
SOURCE	DF	TYPE I SS	F VALUE	PR > F
KTYPE	2	179.02439470	61.63	0.0001
INSTALLATION(KTYPE)	82	5718.10575271	48.01	0.0001
TREATMENT	7	213.96354594	21.05	0.0001
KTYPE*TREATMENT	14	27.59078403	1.36	0.1714
SOURCE	DF	TYPE III SS	F VALUE	PR > F
TREATMENT	7	79.10243572	7.78	0.0001
KTYPE*TREATMENT	14	27.59078403	1.36	0.1714

Table 3. Two Year Net Volume Growth Versus Potassium Condition Type

NVI		2 YEAR NET VOLUME GROWTH (CU.FT/A)		
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	
MODEL	105	16897553.08906120	160929.07703868	
ERROR	396	11393348.35516190	28771.08170495	
CORRECTED TOTAL	501	28290901.44422310		
MODEL F =	5.59		PR > F = 0.0001	
R-SQUARE	C.V.	ROOT MSE	NVI MEAN	
0.597279	63.1340	169.62040474	268.66733068	
SOURCE	DF	TYPE I SS	F VALUE	PR > F
KTYPE	2	60475.48925417	1.05	0.3506
INSTALLATION(KTYPE)	82	16210111.92163550	6.87	0.0001
TREATMENT	7	294037.37442732	1.46	0.1800
KTYPE*TREATMENT	14	332928.30374413	0.83	0.6402
SOURCE	DF	TYPE III SS	F VALUE	PR > F
TREATMENT	7	239834.53620851	1.19	0.3068
KTYPE*TREATMENT	14	332928.30374413	0.83	0.6402

Table 4. Two Year Gross Volume Growth Versus Potassium Condition Type

GVI		2 YEAR GROSS VOLUME GROWTH (CU.FT/A)		
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	
MODEL	105	10881441.05996800	103632.77199970	
ERROR	396	873326.51971323	2205.36999928	
CORRECTED TOTAL	501	11754767.57968130		
MODEL F =	46.99		PR > F = 0.0001	
R-SQUARE	C.V.	ROOT MSE	GVI MEAN	
0.925704	14.1578	46.96136709	331.69920319	
SOURCE	DF	TYPE I SS	F VALUE	PR > F
KTYPE	2	343526.83772758	77.88	0.0001
INSTALLATION(KTYPE)	82	10196811.87528690	56.39	0.0001
TREATMENT	7	303550.96453786	19.66	0.0001
KTYPE*TREATMENT	14	37551.38241557	1.22	0.2603
SOURCE	DF	TYPE III SS	F VALUE	PR > F
TREATMENT	7	113275.57387335	7.34	0.0001
KTYPE*TREATMENT	14	37551.38241557	1.22	0.2603

SECTION VI

**Eight Year Growth Response Summaries
for all the Douglas-fir Installations**

INITIAL STAND CHARACTERISTICS:

AGE	61 YEARS
TREES PER ACRE	162 TREES/ACRE
BASAL AREA	93.6 SQ.FEET/ACRE
TOTAL VOLUME	2020 CU.FEET/ACRE
CCF	103.7
RELATIVE DENSITY INDEX	23.1
MEAN DIAMETER	10.3 INCHES
AVERAGE CROWN LENGTH	33.0 FEET
AVERAGE CROWN RATIO	59.0 PERCENT
SITE HEIGHT (40 TPA)	61.9 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	87.4 PERCENT
GRAND FIR	2.5 PERCENT
LODGEPOLE PINE	0.8 PERCENT
PONDEROSA PINE	9.3 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
 INITIAL BASAL AREA OF 93.6 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	23.9		
	200 # N	31.2	7.3	30.5
	400 # N	28.6	4.7	19.7
8-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	901.0		
	200 # N	952.0	51.0	5.7
	400 # N	815.0	-86.0	-9.5
8-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	28		
	200 # N	32	4	10.0
	400 # N	30	2	8.7
8-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	995		
	200 # N	942	-53	-5.3
	400 # N	823	-172	-17.3
8-YEAR CHANGE IN AVERAGE DIAMETER (INCHES)	CONTROL	1.22		
	200 # N	1.75	0.53	43.4
	400 # N	2.02	0.80	65.6
8-YEAR CHANGE IN HEIGHT GROWTH (FEET)	CONTROL	5.30		
	200 # N	6.90	0.60	0.5
	400 # N	6.00	-0.30	-4.8

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	3.6			3.0		
	200	4.9	1.3	36.1	4.4	1.4	46.7
	400	4.3	0.7	19.4	3.6	0.6	20.0
GROSS BASAL AREA PAI (SQ.FT/A)	CON	3.8			3.0		
	200	4.8	1.0	26.3	4.0	1.0	33.3
	400	4.6	0.8	21.1	3.6	0.6	20.0
	TRT	THIRD TWO YEARS			FOURTH TWO YEARS		
		INC	DIFF	%	INC	DIFF	%
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	3.3			1.5		
	200	3.3	0.0	0.0	4.1	2.8	173.3
	400	3.6	0.3	9.1	3.5	2.0	133.3
GROSS BASAL AREA PAI (SQ.FT/A)	CON	3.2			3.3		
	200	3.5	0.3	9.4	3.4	0.1	3.0
	400	3.3	0.1	3.1	3.1	-0.2	-6.1

 INITIAL STAND CHARACTERISTICS:

AGE	42 YEARS
TREES PER ACRE	174 TREES/ACRE
BASAL AREA	90.4 SQ.FEET/ACRE
TOTAL VOLUME	1501 CU.FEET/ACRE
CCF	87.7
RELATIVE DENSITY INDEX	26.4
MEAN DIAMETER	9.3 INCHES
AVERAGE CROWN LENGTH	50.3 FEET
AVERAGE CROWN RATIO	89.3 PERCENT
SITE HEIGHT (40 TPA)	54.5 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	68.0 PERCENT
WESTERN LARCH	22.7 PERCENT
PUNDEROSA PINE	9.3 PERCENT

 GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
 INITIAL BASAL AREA OF 80.4 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET	CONTROL	31.5		
BASAL AREA	200 # N	30.8	-0.7	-2.2
(SQ.FEET/ACRE)	400 # N	33.2	1.8	5.7
8-YEAR GROSS	CONTROL	966.0		
BASAL AREA	200 # N	903.0	-63.0	-6.5
(SQ.FEET/ACRE)	400 # N	1023	57.0	5.9
8-YEAR NET	CONTROL	32		
TOTAL VOLUME	200 # N	31	-0	-0.3
(CU.FEET/ACRE)	400 # N	34	3	3.3
8-YEAR GROSS	CONTROL	968		
TOTAL VOLUME	200 # N	935	-73	-7.5
(CU.FEET/ACRE)	400 # N	1047	79	8.2
8-YEAR CHANGE	CONTROL	1.80		
IN AVERAGE DIAMETER	200 # N	1.69	-0.11	-6.1
(INCHES)	400 # N	1.54	-0.26	-14.4
8-YEAR CHANGE	CONTROL	9.10		
IN HEIGHT GROWTH	200 # N	9.60	-0.50	-5.5
(FEET)	400 # N	8.50	-0.60	-6.6

 PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		INC	RESPONSE		INC	RESPONSE	
			DIFF	%		DIFF	%
NET BASAL	CON	4.3			4.0		
AREA PAI	200	4.6	0.3	7.0	4.3	0.3	20.0
(SQ.FT/A)	400	4.7	0.4	9.3	4.8	0.5	20.0
GROSS BASAL	CON	4.3			4.0		
AREA PAI	200	4.5	0.2	4.7	4.5	0.5	12.5
(SQ.FT/A)	400	4.8	0.5	11.6	4.8	0.8	20.0
	TRT	THIRD TWO YEARS			FOURTH TWO YEARS		
		INC	RESPONSE		INC	RESPONSE	
			DIFF	%		DIFF	%
NET BASAL	CON	4.1			3.1		
AREA PAI	200	3.7	-0.4	-9.3	3.5	-0.4	-12.7
(SQ.FT/A)	400	4.2	0.1	2.4	2.4	-0.7	-22.0
GROSS BASAL	CON	4.1			3.2		
AREA PAI	200	3.8	-0.3	-7.3	3.0	-0.2	-6.2
(SQ.FT/A)	400	4.3	0.2	4.9	3.0	-0.2	-6.2

 INITIAL STAND CHARACTERISTICS:

AGE	83 YEARS
TREES PER ACRE	182 TREES/ACRE
BASAL AREA	151.6 SQ.FEET/ACRE
TOTAL VOLUME	4731 CU.FEET/ACRE
CCF	135.6
RELATIVE DENSITY INDEX	42.9
MEAN DIAMETER	12.5 INCHES
AVERAGE CROWN LENGTH	45.0 FEET
AVERAGE CROWN RATIO	50.5 PERCENT
SITE HEIGHT (40 TPA)	90.4 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	81.8 PERCENT
GRAND FIR	2.4 PERCENT
WESTERN LARCH	8.5 PERCENT
LODGEPOLE PINE	3.6 PERCENT
PUNDEROSA PINE	6.7 PERCENT

 GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
 INITIAL BASAL AREA OF 151.6 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
3-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL 200 # N 400 # N	29.2 33.8 46.6		
			4.6 17.4	15.3 59.6
8-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL 200 # N 400 # N	1210 1426 1805		
			216.0 595.0	17.9 49.2
8-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL 200 # N 400 # N	31 37 49		
			6 18	19.2 59.1
8-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL 200 # N 400 # N	1264 1601 1870		
			337 606	26.7 47.9
8-YEAR CHANGE IN AVERAGE DIAMETER (INCHES)	CONTROL 200 # N 400 # N	1.21 1.58 2.39		
			0.37 1.18	30.6 97.5
8-YEAR CHANGE IN HEIGHT GROWTH (FEET)	CONTROL 200 # N 400 # N	4.40 6.30 7.70		
			1.90 3.30	43.2 75.0

 PERIODIC ANNUAL INCREMENT:

		FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
	TRT	INC	DIFF	%	INC	DIFF	%
NET BASAL	CON	3.0			4.9		
AREA PAI	200	3.8	0.8	26.7	5.5	0.6	12.2
(SQ.FT/A)	400	4.4	1.4	46.7	3.3	2.4	69.4
GROSS BASAL	CON	3.1			4.8		
AREA PAI	200	4.1	1.0	32.3	6.3	1.5	31.3
(SQ.FT/A)	400	5.9	2.8	90.3	8.3	3.5	72.9
		THIRD TWO YEARS			FOURTH TWO YEARS		
NET BASAL	CON	3.7			3.8		
AREA PAI	200	4.3	0.6	16.2	1.6	-2.2	-57.9
(SQ.FT/A)	400	6.6	2.9	78.4	3.0	4.2	110.5
GROSS BASAL	CON	3.7			4.0		
AREA PAI	200	4.1	0.4	10.3	4.9	0.3	8.5
(SQ.FT/A)	400	5.9	2.2	59.5	6.0	1.4	30.4

 INITIAL STAND CHARACTERISTICS:

AGE	41 YEARS
TREES PER ACRE	240 TREES/ACRE
BASAL AREA	90.0 SQ.FEET/ACRE
TOTAL VOLUME	2067 CU.FEET/ACRE
CCF	108.5
RELATIVE DENSITY INDEX	31.2
MEAN DIAMETER	8.4 INCHES
AVERAGE CROWN LENGTH	34.3 FEET
AVERAGE CROWN RATIO	58.0 PERCENT
SITE HEIGHT (40 TPA)	55.5 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	93.5 PERCENT
GRAND FIR	0.3 PERCENT
WESTERN REDCEDAR	0.3 PERCENT
WESTERN LARCH	3.0 PERCENT
PONDEROSA PINE	2.9 PERCENT

 GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
 INITIAL BASAL AREA OF 90.0 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL 200 # N 400 # N	24.8 22.2 42.8	-2.0 18.0	-8.1 72.6
8-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL 200 # N 400 # N	977.0 949.0 1382	-28.0 405.0	-2.9 41.5
8-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL 200 # N 400 # N	33 38 42	4 9	13.3 27.3
8-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL 200 # N 400 # N	1168 1293 1367	125 199	10.7 17.0
8-YEAR CHANGE IN AVERAGE DIAMETER (INCHES)	CONTROL 200 # N 400 # N	1.39 1.96 1.95	0.57 0.56	41.0 40.3
8-YEAR CHANGE IN HEIGHT GROWTH (FEET)	CONTROL 200 # N 400 # N	10.00 10.40 11.00	0.40 1.00	4.0 10.0

 PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON 200 400	4.3 4.1 6.3	-0.2 2.0	-4.7 46.5	5.3 5.7 6.8	0.4 1.5	7.5 28.3
GROSS BASAL AREA PAI (SQ.FT/A)	CON 200 400	4.8 5.7 6.2	0.9 1.4	18.8 29.2	5.3 5.3 6.8	0.5 1.5	9.4 28.3
		THIRD TWO YEARS			FOURTH TWO YEARS		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON 200 400	-0.3 -0.2 4.4	0.1 4.7	33.3 1566.7	3.5 2.2 4.5	-1.3 1.0	-37.1 28.0
GROSS BASAL AREA PAI (SQ.FT/A)	CON 200 400	3.0 3.5 4.3	0.5 1.3	16.7 43.3	3.7 3.8 4.2	0.1 0.5	2.7 13.5

INITIAL STAND CHARACTERISTICS:

AGE	59 YEARS
TREES PER ACRE	222 TREES/ACRE
BASAL AREA	113.7 SQ.FEET/ACRE
TOTAL VOLUME	2544 CU.FEET/ACRE
CCF	128.9
RELATIVE DENSITY INDEX	36.7
MEAN DIAMETER	9.6 INCHES
AVERAGE CROWN LENGTH	25.2 FEET
AVERAGE CROWN RATIO	47.5 PERCENT
SITE HEIGHT (40 TPA)	60.8 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	82.1 PERCENT
GRAND FIR	2.0 PERCENT
WESTERN LARCH	1.5 PERCENT
LODGEPOLE PINE	0.5 PERCENT
PONDEROSA PINE	14.0 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON INITIAL BASAL AREA OF 113.7 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	22.7		
	200 # N	25.4	2.7	11.9
	400 # N	33.5	10.8	47.6
8-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	776.0		
	200 # N	969.0	193.0	24.9
	400 # N	1068	292.0	37.6
8-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	29		
	200 # N	28	-1	-2.3
	400 # N	36	7	25.3
8-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	908		
	200 # N	1029	121	13.3
	400 # N	1127	219	24.1
8-YEAR CHANGE IN AVERAGE DIAMETER (INCHES)	CONTROL	1.23		
	200 # N	1.21	-0.02	-1.6
	400 # N	1.68	0.45	36.6
8-YEAR CHANGE IN HEIGHT GROWTH (FEET)	CONTROL	6.00		
	200 # N	7.80	1.80	30.0
	400 # N	7.40	1.40	23.3

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	3.5			3.5		
	200	3.7	0.2	5.7	3.9	0.4	11.4
	400	5.5	2.0	57.1	5.3	1.8	51.4
GROSS BASAL AREA PAI (SQ.FT/A)	CON	3.6			3.5		
	200	3.8	0.2	5.6	4.1	0.6	17.1
	400	5.4	1.8	50.0	5.3	1.8	51.4
		THIRD TWO YEARS			FOURTH TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	3.2			1.0		
	200	2.7	-0.5	-15.6	1.8	0.8	30.0
	400	3.4	0.2	6.2	2.9	1.9	190.0
GROSS BASAL AREA PAI (SQ.FT/A)	CON	3.2			3.8		
	200	2.7	-0.5	-15.6	3.3	-0.5	-13.2
	400	3.6	0.4	12.5	3.5	-0.3	-7.9

INITIAL STAND CHARACTERISTICS:

AGE	58 YEARS
TREES PER ACRE	182 TREES/ACRE
BASAL AREA	66.9 SQ.FEET/ACRE
TOTAL VOLUME	1285 CU.FEET/ACRE
CCF	30.5
RELATIVE DENSITY INDEX	23.3
MEAN DIAMETER	8.3 INCHES
AVERAGE CROWN LENGTH	25.4 FEET
AVERAGE CROWN RATIO	55.0 PERCENT
SITE HEIGHT (40 TPA)	51.8 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	85.0 PERCENT
LODGEPOLE PINE	4.5 PERCENT
PONDEROSA PINE	10.5 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON INITIAL BASAL AREA OF 66.9 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
3-YEAR NET	CONTROL	24.3		
BASAL AREA	200 # N	25.9	1.6	0.6
(SQ.FEET/ACRE)	400 # N	24.0	-0.3	-1.2
8-YEAR GROSS	CONTROL	627.0		
BASAL AREA	200 # N	631.0	4.0	0.6
(SQ.FEET/ACRE)	400 # N	704.0	77.0	12.3
3-YEAR NET	CONTROL	24		
TOTAL VOLUME	200 # N	26	2	8.2
(CU.FEET/ACRE)	400 # N	31	6	25.5
8-YEAR GROSS	CONTROL	626		
TOTAL VOLUME	200 # N	627	1	0.2
(CU.FEET/ACRE)	400 # N	840	214	34.2
3-YEAR CHANGE	CONTROL	1.45		
IN AVERAGE DIAMETER	200 # N	1.60	0.15	10.3
(INCHES)	400 # N	1.75	0.30	20.7
8-YEAR CHANGE	CONTROL	5.60		
IN HEIGHT GROWTH	200 # N	6.00	0.40	7.1
(FEET)	400 # N	7.30	1.70	30.4

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL	CON	3.2			3.6		
AREA PAI	200	4.1	0.9	28.1	4.3	0.7	13.4
(SQ.FT/A)	400	4.4	1.2	37.5	4.6	1.0	27.8
GROSS BASAL	CON	3.2			3.6		
AREA PAI	200	4.0	0.8	25.0	4.1	0.5	15.9
(SQ.FT/A)	400	4.5	1.3	40.0	4.7	1.1	30.6
	TRT	THIRD TWO YEARS			FOURTH TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL	CON	2.4			2.9		
AREA PAI	200	2.2	-0.2	-8.3	3.3	0.4	13.8
(SQ.FT/A)	400	2.6	0.2	8.3	-0.2	-3.1	-106.9
GROSS BASAL	CON	2.4			2.9		
AREA PAI	200	2.3	-0.1	-4.2	2.9	0.0	0.0
(SQ.FT/A)	400	2.8	0.4	16.7	3.3	0.4	13.8

INITIAL STAND CHARACTERISTICS:

AGE	69 YEARS
TREES PER ACRE	165 TREES/ACRE
BASAL AREA	100.7 SQ.FEET/ACRE
TOTAL VOLUME	2462 CU.FEET/ACRE
CCF	109.8
RELATIVE DENSITY INDEX	30.9
MEAN DIAMETER	10.6 INCHES
AVERAGE CROWN LENGTH	28.7 FEET
AVERAGE CROWN RATIO	47.5 PERCENT
SITE HEIGHT (40 TPA)	70.3 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	78.7 PERCENT
GRAND FIR	6.3 PERCENT
WESTERN LARCH	2.4 PERCENT
PONDEROSA PINE	12.6 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON INITIAL BASAL AREA OF 100.7 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
6-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	18.7		
	200 # N	25.7	7.0	37.4
	400 # N	18.1	-0.6	-3.2
8-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	760.0		
	200 # N	910.0	144.0	18.8
	400 # N	670.0	-90.0	-12.5
8-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	22		
	200 # N	27	5	24.2
	400 # N	25	4	17.7
8-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	830		
	200 # N	977	147	17.7
	400 # N	835	5	0.6
8-YEAR CHANGE IN AVERAGE DIAMETER (INCHES)	CONTROL	1.33		
	200 # N	1.29	-0.04	-3.0
	400 # N	1.52	0.19	14.3
8-YEAR CHANGE IN HEIGHT GROWTH (FEET)	CONTROL	6.80		
	200 # N	6.90	0.10	1.5
	400 # N	5.70	-1.10	-16.2

PERIODIC ANNUAL INCREMENT:

		FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
	TRT	INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	2.9			3.0		
	200	3.7	0.8	27.6	3.0	0.0	0.0
	400	4.1	1.2	41.4	3.2	0.2	6.7
GROSS BASAL AREA PAI (SQ.FT/A)	CON	2.9			3.2		
	200	3.9	1.0	34.5	3.6	0.4	12.5
	400	4.0	1.1	37.9	3.2	0.0	0.0
		THIRD TWO YEARS			FOURTH TWO YEARS		
NET BASAL AREA PAI (SQ.FT/A)	CON	2.1			1.3		
	200	3.1	1.0	47.6	0.9	-0.4	-30.8
	400	3.0	0.9	42.9	-0.7	-2.0	-153.3
GROSS BASAL AREA PAI (SQ.FT/A)	CON	2.1			2.5		
	200	2.9	0.8	38.1	2.9	0.4	16.0
	400	2.8	0.7	33.3	2.7	0.2	8.0

INITIAL STAND CHARACTERISTICS:

AGE	41 YEARS
TREES PER ACRE	238 TREES/ACRE
BASAL AREA	104.3 SQ.FEET/ACRE
TOTAL VOLUME	2502 CU.FEET/ACRE
CCF	131.7
RELATIVE DENSITY INDEX	34.3
MEAN DIAMETER	8.9 INCHES
AVERAGE CROWN LENGTH	30.1 FEET
AVERAGE CROWN RATIO	51.7 PERCENT
SITE HEIGHT (40 TPA)	67.2 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	86.3 PERCENT
GRAND FIR	13.1 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
 INITIAL BASAL AREA OF 104.3 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	33.8		
	200 # N	37.1	3.3	9.8
	400 # N	50.3	16.5	48.8
8-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	1256		
	200 # N	1560	304.0	24.2
	400 # N	1949	692.0	55.1
8-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	42		
	200 # N	53	8	18.8
	400 # N	57	15	36.9
8-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	1454		
	200 # N	1819	365	25.1
	400 # N	2090	636	43.7
8-YEAR CHANGE IN AVERAGE DIAMETER (INCHES)	CONTROL	1.54		
	200 # N	2.32	0.78	50.6
	400 # N	2.68	1.14	74.0
8-YEAR CHANGE IN HEIGHT GROWTH (FEET)	CONTROL	10.30		
	200 # N	12.80	2.50	24.3
	400 # N	13.70	3.40	33.0

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	5.4			1.6		
	200	7.1	1.7	31.5	3.9	2.3	143.8
	400	8.2	2.8	51.9	6.2	4.6	287.5
GROSS BASAL AREA PAI (SQ.FT/A)	CON	5.5			5.0		
	200	7.5	2.0	36.4	6.4	1.4	28.0
	400	8.1	2.6	47.3	7.4	2.4	43.0
	TRT	THIRD TWO YEARS			FOURTH TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	4.9			4.9		
	200	3.5	-1.4	-28.6	4.3	-0.6	-12.2
	400	4.2	-0.7	-14.3	6.8	1.9	38.8
GROSS BASAL AREA PAI (SQ.FT/A)	CON	4.8			5.4		
	200	5.6	0.8	16.7	5.3	-0.1	-1.9
	400	6.4	1.6	33.3	6.6	1.2	22.2

INITIAL STAND CHARACTERISTICS:

AGE	41 YEARS
TREES PER ACRE	233 TREES/ACRE
BASAL AREA	111.7 SQ.FEET/ACRE
TOTAL VOLUME	2854 CU.FEET/ACRE
CCF	135.6
RELATIVE DENSITY INDEX	36.3
MEAN DIAMETER	5.4 INCHES
AVERAGE CROWN LENGTH	29.7 FEET
AVERAGE CROWN RATIO	47.3 PERCENT
SITE HEIGHT (40 TPA)	69.0 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	77.2 PERCENT
GRAND FIR	13.6 PERCENT
WESTERN REDCEDAR	2.1 PERCENT
WESTERN LARCH	3.6 PERCENT
LODGEPOLE PINE	2.5 PERCENT
WHITE PINE	0.9 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON INITIAL BASAL AREA OF 111.7 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	36.5		
	200 # N	47.9	11.4	31.2
	400 # N	46.8	10.3	23.2
8-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	1469		
	200 # N	2100	631.0	43.0
	400 # N	1984	515.0	35.1
8-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	40		
	200 # N	51	10	25.2
	400 # N	54	14	33.4
8-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	1543		
	200 # N	2206	663	43.0
	400 # N	2186	643	41.7
3-YEAR CHANGE IN AVERAGE DIAMETER (INCHES)	CONTROL	1.90		
	200 # N	1.92	0.02	1.1
	400 # N	2.22	0.32	16.8
8-YEAR CHANGE IN HEIGHT GROWTH (FEET)	CONTROL	12.00		
	200 # N	13.50	1.50	12.5
	400 # N	14.30	2.30	19.2

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		INC	RESPONSE		INC	RESPONSE	
			DIFF	%		DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CUN	5.4			4.4		
	200	7.0	1.6	29.6	5.0	1.2	27.3
	400	6.5	1.1	20.4	7.0	2.6	59.1
GROSS BASAL AREA PAI (SQ.FT/A)	CUN	5.3			5.0		
	200	7.2	1.9	35.8	6.1	1.1	22.0
	400	7.7	2.4	45.3	7.0	2.0	40.0
	TRT	THIRD TWO YEARS			FOURTH TWO YEARS		
		INC	RESPONSE		INC	RESPONSE	
			DIFF	%		DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CUN	3.0			5.7		
	200	3.8	0.8	26.7	5.6	-0.1	-1.8
	400	5.0	2.0	66.7	4.7	-1.0	-17.5
GROSS BASAL AREA PAI (SQ.FT/A)	CUN	5.2			4.8		
	200	5.4	0.2	3.8	6.5	1.7	32.4
	400	5.8	0.6	11.5	6.5	1.7	32.4

 INITIAL STAND CHARACTERISTICS:

AGE	40 YEARS
TREES PER ACRE	280 TREES/ACRE
BASAL AREA	152.4 SQ.FEET/ACRE
TOTAL VOLUME	4011 CU.FEET/ACRE
CCF	172.3
RELATIVE DENSITY INDEX	47.3
MEAN DIAMETER	10.4 INCHES
AVERAGE CROWN LENGTH	32.3 FEET
AVERAGE CROWN RATIO	50.3 PERCENT
SITE HEIGHT (40 TPA)	75.9 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	77.4 PERCENT
GRAND FIR	8.3 PERCENT
WESTERN RED CEDAR	4.5 PERCENT
WESTERN LARCH	8.4 PERCENT
PONDEROSA PINE	1.5 PERCENT

 GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
 INITIAL BASAL AREA OF 152.4 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL 200 # N 400 # N	44.8 46.8 39.3	-2.0 -5.5	4.5 -12.3
8-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL 200 # N 400 # N	1943 2046 1968	103.0 25.0	5.3 1.3
8-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL 200 # N 400 # N	44 47 45	3 1	8.9 1.3
8-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL 200 # N 400 # N	1910 2049 2144	139 234	7.3 12.3
8-YEAR CHANGE IN AVERAGE DIAMETER (INCHES)	CONTROL 200 # N 400 # N	1.65 1.46 1.25	-0.19 -0.40	-11.5 -24.2
8-YEAR CHANGE IN HEIGHT GROWTH (FEET)	CONTROL 200 # N 400 # N	13.70 11.00 11.70	-2.00 -1.30	-15.4 -10.0

 PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		INC	RESPONSE		INC	RESPONSE	
			DIFF	%		DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON 200 400	5.8 6.9 5.7	-1.1 -0.1	19.0 -1.7	4.2 5.6 4.8	1.4 0.6	33.3 14.3
GROSS BASAL AREA PAI (SQ.FT/A)	CON 200 400	5.7 6.9 6.0	1.2 0.3	21.1 5.3	5.1 5.7 5.2	0.6 0.1	11.8 2.7
	TRT	THIRD TWO YEARS			FOURTH TWO YEARS		
		INC	RESPONSE		INC	RESPONSE	
			DIFF	%		DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON 200 400	6.0 5.7 5.0	-0.3 -1.0	-5.0 -16.7	6.6 5.1 2.7	-1.5 -3.9	-22.7 -59.1
GROSS BASAL AREA PAI (SQ.FT/A)	CON 200 400	6.1 5.7 5.7	-0.4 -0.4	-6.6 -6.6	5.3 5.2 5.1	-0.1 -0.2	-1.9 -3.8

INITIAL STAND CHARACTERISTICS:

AGE	55 YEARS
TREES PER ACRE	277 TREES/ACRE
BASAL AREA	156.8 SQ.FEET/ACRE
TOTAL VOLUME	3983 CU.FEET/ACRE
CCF	167.5
RELATIVE DENSITY INDEX	49.1
MEAN DIAMETER	10.2 INCHES
AVERAGE CROWN LENGTH	24.9 FEET
AVERAGE CROWN RATIO	39.5 PERCENT
SITE HEIGHT (40 TPA)	70.0 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	68.0 PERCENT
GRAND FIR	2.1 PERCENT
WESTERN LARCH	3.7 PERCENT
PONDEROSA PINE	26.2 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON INITIAL BASAL AREA OF 156.8 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	-21.8		
	200 # N	-15.5	6.1	28.2
	400 # N	-17.0	4.6	21.3
8-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	-223		
	200 # N	-29.0	194.0	87.0
	400 # N	20.0	243.0	109.0
8-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	26		
	200 # N	33	7	27.5
	400 # N	29	4	15.3
8-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	1112		
	200 # N	1361	249	22.4
	400 # N	1308	196	17.6
8-YEAR CHANGE IN AVERAGE DIAMETER (INCHES)	CONTROL	1.11		
	200 # N	1.66	0.55	49.5
	400 # N	1.29	0.16	15.2
8-YEAR CHANGE IN HEIGHT GROWTH (FEET)	CONTROL	8.70		
	200 # N	3.50	-0.40	-4.5
	400 # N	9.50	0.60	5.7

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	0.7			3.2		
	200	2.8	2.1	300.0	3.6	0.4	12.5
	400	-1.7	-2.4	-342.9	1.7	-1.5	-46.9
GROSS BASAL AREA PAI (SQ.FT/A)	CON	3.8			4.1		
	200	5.2	1.4	36.8	5.2	1.1	25.8
	400	3.9	0.1	2.6	4.2	0.1	2.4
	TRT	THIRD TWO YEARS			FOURTH TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	-3.6			-10.9		
	200	-2.2	1.4	38.9	-11.9	-1.0	-9.2
	400	-6.1	-2.5	-69.4	-3.5	7.4	67.9
GROSS BASAL AREA PAI (SQ.FT/A)	CON	2.6			2.4		
	200	3.4	0.8	30.8	2.4	0.0	0.0
	400	3.1	0.5	19.2	3.2	0.8	33.3

INITIAL STAND CHARACTERISTICS:

AGE	88 YEARS
TREES PER ACRE	150 TREES/ACRE
BASAL AREA	188.7 SQ.FEET/ACRE
TOTAL VOLUME	6549 CU.FEET/ACRE
CCF	175.4
RELATIVE DENSITY INDEX	48.2
MEAN DIAMETER	15.5 INCHES
AVERAGE CROWN LENGTH	32.7 FEET
AVERAGE CROWN RATIO	35.0 PERCENT
SITE HEIGHT (40 TPA)	102.4 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	96.5 PERCENT
GRAND FIR	0.9 PERCENT
PUNDEROSA PINE	2.6 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON INITIAL BASAL AREA OF 188.7 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	28.8		
	200 # N	29.3	0.5	1.7
	400 # N	25.7	-3.1	-10.3
8-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	1174		
	200 # N	1444	270.0	23.0
	400 # N	1255	-55.0	-7.2
3-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	33		
	200 # N	26	-7	-21.0
	400 # N	28	-6	-17.4
8-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	1323		
	200 # N	1517	194	14.7
	400 # N	1314	-9	-0.7
8-YEAR CHANGE IN AVERAGE DIAMETER (INCHES)	CONTROL	2.15		
	200 # N	0.92	-1.23	-57.2
	400 # N	1.44	-0.71	-33.0
8-YEAR CHANGE IN HEIGHT GROWTH (FEET)	CONTROL	6.30		
	200 # N	5.20	-1.10	-17.5
	400 # N	4.80	-1.50	-23.8

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	4.6			4.3		
	200	2.3	-2.3	-50.0	0.6	-3.7	-86.0
	400	3.4	-1.2	-26.1	1.9	-2.4	-55.3
GROSS BASAL AREA PAI (SQ.FT/A)	CON	4.2			4.3		
	200	2.9	-1.3	-31.0	2.6	-1.7	-37.5
	400	3.4	-0.8	-19.0	2.9	-1.4	-32.6
	TRT	THIRD TWO YEARS			FOURTH TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	2.8			3.3		
	200	3.7	0.9	32.1	1.0	-2.3	-60.7
	400	3.6	0.8	28.6	4.0	0.7	21.2
GROSS BASAL AREA PAI (SQ.FT/A)	CON	4.4			4.1		
	200	3.2	-1.2	-27.3	4.2	0.1	2.4
	400	3.6	-0.8	-18.2	3.9	-0.2	-4.9

 INITIAL STAND CHARACTERISTICS:

AGE	68 YEARS
TREES PER ACRE	182 TREES/ACRE
BASAL AREA	143.1 SQ.FEET/ACRE
TOTAL VOLUME	4415 CU.FEET/ACRE
CCF	154.3
RELATIVE DENSITY INDEX	41.2
MEAN DIAMETER	12.1 INCHES
AVERAGE CROWN LENGTH	28.1 FEET
AVERAGE CROWN RATIO	34.7 PERCENT
SITE HEIGHT (40 TPA)	89.0 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	99.0 PERCENT
WESTERN LARCH	1.0 PERCENT

 GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
 INITIAL BASAL AREA OF 143.1 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET	CONTROL	20.0		
BASAL AREA	200 # N	29.1	9.1	45.5
(SQ.FEET/ACRE)	400 # N	30.4	10.4	52.0
8-YEAR GROSS	CONTROL	1000		
BASAL AREA	200 # N	1470	470.0	47.0
(SQ.FEET/ACRE)	400 # N	1387	387.0	38.7
8-YEAR NET	CONTROL	25		
TOTAL VOLUME	200 # N	28	3	12.0
(CU.FEET/ACRE)	400 # N	30	5	20.7
8-YEAR GROSS	CONTROL	1149		
TOTAL VOLUME	200 # N	1497	348	30.3
(CU.FEET/ACRE)	400 # N	1383	234	20.4
8-YEAR CHANGE	CONTROL	1.12		
IN AVERAGE DIAMETER	200 # N	1.22	0.11	9.8
(INCHES)	400 # N	1.18	0.06	5.4
8-YEAR CHANGE	CONTROL	8.50		
IN HEIGHT GROWTH	200 # N	9.30	0.80	9.4
(FEET)	400 # N	9.00	0.50	5.9

 PERIODIC ANNUAL INCREMENT:

		FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
	TRT	INC	DIFF	%	INC	DIFF	%
NET BASAL	CON	3.4			2.3		
AREA PAI	200	3.8	0.4	11.8	3.3	1.0	45.5
(SQ.FT/A)	400	4.1	0.7	20.6	4.9	2.5	113.0
GROSS BASAL	CON	3.3			3.9		
AREA PAI	200	4.0	0.7	21.2	4.1	0.2	5.1
(SQ.FT/A)	400	4.1	0.8	24.2	4.9	1.0	25.6
		THIRD TWO YEARS			FOURTH TWO YEARS		
NET BASAL	CON	1.4			3.1		
AREA PAI	200	3.4	2.0	142.9	1.4	-1.7	-54.8
(SQ.FT/A)	400	3.7	2.3	164.3	2.7	-0.4	-12.9
GROSS BASAL	CON	3.0			2.4		
AREA PAI	200	3.3	0.3	10.0	2.6	0.2	8.3
(SQ.FT/A)	400	3.6	0.6	20.0	2.6	0.2	3.3

INITIAL STAND CHARACTERISTICS:

AGE	54 YEARS
TREES PER ACRE	272 TREES/ACRE
BASAL AREA	143.3 SQ.FEET/ACRE
TOTAL VOLUME	3468 CU.FEET/ACRE
CCF	156.4
RELATIVE DENSITY INDEX	45.7
MEAN DIAMETER	9.9 INCHES
AVERAGE CROWN LENGTH	24.0 FEET
AVERAGE CROWN RATIO	41.5 PERCENT
SITE HEIGHT (40 TPA)	70.0 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	84.1 PERCENT
WESTERN LARCH	1.3 PERCENT
LOGSPOLE PINE	3.1 PERCENT
POUNDEROSA PINE	11.5 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
 INITIAL BASAL AREA OF 143.3 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL 200 # N 400 # N	26.8 22.3 6.4	-4.5 -20.4	-16.8 -75.1
8-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL 200 # N 400 # N	1106 1074 15.0	-32.0 -491	-2.9 -44.4
8-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL 200 # N 400 # N	26 23 29	3 3	13.2 11.3
8-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL 200 # N 400 # N	1058 1266 1198	208 140	19.7 13.2
8-YEAR CHANGE IN AVERAGE DIAMETER (INCHES)	CONTROL 200 # N 400 # N	1.21 1.15 1.58	-0.06 0.37	-5.0 30.6
8-YEAR CHANGE IN HEIGHT GROWTH (FEET)	CONTROL 200 # N 400 # N	3.20 7.70 3.70	-0.50 0.50	-6.1 6.1

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON 200 400	3.1 3.6 3.4			3.8 -0.3 -2.7		
			0.5 0.3	16.1 9.7		-4.6 -6.5	-121.1 -171.1
GROSS BASAL AREA PAI (SQ.FT/A)	CON 200 400	3.3 3.9 4.2			3.8 3.8 3.5		
			0.6 0.9	18.2 27.3		0.0 -0.3	0.0 -7.9
	TRT	THIRD TWO YEARS			FOURTH TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON 200 400	3.0 3.8 -1.0			3.7 1.6 3.4		
			0.8 -4.0	26.7 -133.3		-1.9 -0.3	-51.4 -8.1
GROSS BASAL AREA PAI (SQ.FT/A)	CON 200 400	3.1 3.6 3.3			2.9 3.2 3.4		
			0.5 0.2	16.1 6.5		0.3 0.5	10.3 17.2

 INITIAL STAND CHARACTERISTICS:

AGE	34 YEARS
TREES PER ACRE	472 TREES/ACRE
BASAL AREA	172.0 SQ.FEET/ACRE
TOTAL VOLUME	3786 CU.FEET/ACRE
CCF	208.1
RELATIVE DENSITY INDEX	60.1
MEAN DIAMETER	3.2 INCHES
AVERAGE CROWN LENGTH	24.6 FEET
AVERAGE CROWN RATIO	43.0 PERCENT
SITE HEIGHT (40 TPA)	65.3 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	94.4 PERCENT
GRAND FIR	0.4 PERCENT
WESTERN LARCH	0.3 PERCENT
LODGEPOLE PINE	0.2 PERCENT
WHITE PINE	0.5 PERCENT
PONDEROSA PINE	4.1 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
 INITIAL BASAL AREA OF 172.0 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	45.0		
	200 # N	43.6	-1.4	-3.1
	400 # N	18.3	-26.7	-59.3
8-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	1685		
	200 # N	1734	49.0	2.3
	400 # N	1094	-592	-35.1
8-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	54		
	200 # N	62	7	13.5
	400 # N	61	7	12.7
8-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	1900		
	200 # N	2147	247	13.0
	400 # N	2042	142	7.5
3-YEAR CHANGE IN AVERAGE DIAMETER (INCHES)	CONTROL	1.28		
	200 # N	1.74	0.46	35.9
	400 # N	2.84	1.56	121.9
3-YEAR CHANGE IN HEIGHT GROWTH (FEET)	CONTROL	8.80		
	200 # N	9.10	0.30	3.4
	400 # N	10.30	1.50	17.0

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	7.3			6.7		
	200	8.8	1.5	20.5	6.2	-0.5	-7.5
	400	7.8	0.5	6.8	-4.1	-10.8	-101.2
GROSS BASAL AREA PAI (SQ.FT/A)	CON	7.4			7.0		
	200	8.9	1.5	20.3	3.2	1.2	17.1
	400	9.7	2.3	31.1	3.0	1.0	14.3
		THIRD TWO YEARS			FOURTH TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	5.8			2.6		
	200	4.3	-1.5	-25.9	1.9	-0.7	-26.9
	400	5.1	-0.7	-12.1	0.7	-1.9	-73.1
GROSS BASAL AREA PAI (SQ.FT/A)	CON	6.4			2.4		
	200	6.6	0.2	3.1	7.1	0.7	10.9
	400	6.7	0.3	4.7	6.2	-0.2	-3.1

 INITIAL STAND CHARACTERISTICS:

AGE	71 YEARS
TREES PER ACRE	197 TREES/ACRE
BASAL AREA	31.1 SQ.FEET/ACRE
TOTAL VOLUME	1867 CU.FEET/ACRE
CCF	98.3
RELATIVE DENSITY INDEX	27.4
MEAN DIAMETER	3.7 INCHES
AVERAGE CROWN LENGTH	26.7 FEET
AVERAGE CROWN RATIO	48.0 PERCENT
SITE HEIGHT (40 TPA)	54.2 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	96.3 PERCENT
WESTERN LARCH	2.5 PERCENT
PONDEROSA PINE	1.2 PERCENT

 GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
 INITIAL BASAL AREA OF 31.1 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
3-YEAR NET	CONTROL	21.3		
BASAL AREA	200 # N	26.5	5.2	24.4
(SQ.FEET/ACRE)	400 # N	23.2	1.9	8.9
8-YEAR GROSS	CONTROL	765.0		
BASAL AREA	200 # N	832.0	67.0	8.8
(SQ.FEET/ACRE)	400 # N	763.0	-2.0	-0.3
3-YEAR NET	CONTROL	22		
TOTAL VOLUME	200 # N	27	5	20.9
(CU.FEET/ACRE)	400 # N	23	1	4.1
8-YEAR GROSS	CONTROL	781		
TOTAL VOLUME	200 # N	831	50	6.4
(CU.FEET/ACRE)	400 # N	755	-26	-3.3
8-YEAR CHANGE	CONTROL	1.13		
IN AVERAGE DIAMETER	200 # N	1.28	0.15	13.3
(INCHES)	400 # N	1.22	0.09	8.0
8-YEAR CHANGE	CONTROL	7.30		
IN HEIGHT GROWTH	200 # N	7.10	-0.20	-2.7
(FEET)	400 # N	7.30	0.00	0.0

 PERIODIC ANNUAL INCREMENT:

		FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
	TRT	INC	DIFF	%	INC	DIFF	%
NET BASAL	CON	2.8			2.6		
AREA PAI	200	4.2	1.4	50.0	3.3	0.7	26.9
(SQ.FT/A)	400	3.8	1.0	35.7	2.8	0.2	7.7
GROSS BASAL	CON	2.8			2.6		
AREA PAI	200	4.1	1.3	46.4	3.3	0.7	26.9
(SQ.FT/A)	400	3.8	1.0	35.7	2.8	0.2	7.7
		THIRD TWO YEARS			FOURTH TWO YEARS		
NET BASAL	CON	2.7			2.5		
AREA PAI	200	3.0	-0.3	11.1	2.9	0.4	16.0
(SQ.FT/A)	400	2.6	-0.1	-3.7	2.5	0.0	0.0
GROSS BASAL	CON	2.7			2.9		
AREA PAI	200	3.0	-0.3	11.1	2.9	0.0	0.0
(SQ.FT/A)	400	2.6	-0.1	-3.7	2.3	-0.6	-20.7

 INITIAL STAND CHARACTERISTICS:

AGE	122	YEARS
TREES PER ACRE	95.5	TREES/ACRE
BASAL AREA	2959	SQ.FEET/ACRE
TOTAL VOLUME	97.2	CU.FEET/ACRE
CCF	27.5	
RELATIVE DENSITY INDEX	12.1	INCHES
MEAN DIAMETER	29.0	FEET
AVERAGE CROWN LENGTH	36.7	PERCENT
AVERAGE CROWN RATIO	92.3	FEET
SITE HEIGHT (40 TPA)		
SPECIES COMPOSITION (% OF TOTAL BA)		
DOUGLAS-FIR	27.7	PERCENT
GRAND FIR	21.6	PERCENT
WESTERN LARCH	47.5	PERCENT
ENGELMANN SPRUCE	3.3	PERCENT

 GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
 INITIAL BASAL AREA OF 95.5 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET	CONTROL	5.6		
BASAL AREA	200 # N	12.2	6.6	117.9
(SQ.FEET/ACRE)	400 # N	10.9	5.3	94.6
8-YEAR GROSS	CONTROL	463.0		
BASAL AREA	200 # N	538.0	75.0	16.2
(SQ.FEET/ACRE)	400 # N	489.0	26.0	5.6
8-YEAR NET	CONTROL	15		
TOTAL VOLUME	200 # N	20	6	39.3
(CU.FEET/ACRE)	400 # N	22	7	50.3
8-YEAR GROSS	CONTROL	717		
TOTAL VOLUME	200 # N	763	46	6.4
(CU.FEET/ACRE)	400 # N	796	79	11.0
8-YEAR CHANGE	CONTROL	1.00		
IN AVERAGE DIAMETER	200 # N	1.27	0.27	27.0
(INCHES)	400 # N	1.92	0.92	92.0
8-YEAR CHANGE	CONTROL	4.40		
IN HEIGHT GROWTH	200 # N	5.00	0.60	13.6
(FEET)	400 # N	6.20	1.80	40.9

 PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL	CON	1.7			-1.7		
AREA PAI	200	2.8	1.1	64.7	-3.6	-1.9	-111.8
(SQ.FT/A)	400	3.7	2.0	117.6	-0.5	1.2	70.6
GROSS BASAL	CON	1.9			1.8		
AREA PAI	200	2.8	0.9	47.4	2.9	1.1	61.1
(SQ.FT/A)	400	3.5	1.6	84.2	3.0	1.2	66.7
		THIRD TWO YEARS			FOURTH TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL	CON	1.6			0.9		
AREA PAI	200	2.3	0.7	43.7	5.1	4.2	466.7
(SQ.FT/A)	400	0.0	-1.6	-100.0	2.9	2.0	222.2
GROSS BASAL	CON	1.6			1.9		
AREA PAI	200	2.3	0.7	43.7	2.1	0.2	10.5
(SQ.FT/A)	400	2.3	0.7	43.7	2.2	0.3	15.8

INITIAL STAND CHARACTERISTICS:

AGE	50 YEARS
TREES PER ACRE	202 TREES/ACRE
BASAL AREA	91.7 SQ.FEET/ACRE
TOTAL VOLUME	2022 CU.FEET/ACRE
CCF	111.1
RELATIVE DENSITY INDEX	30.2
MEAN DIAMETER	9.2 INCHES
AVERAGE CROWN LENGTH	26.5 FEET
AVERAGE CROWN RATIO	48.8 PERCENT
SITE HEIGHT (40 TPA)	62.2 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	97.3 PERCENT
GRAND FIR	1.2 PERCENT
WESTERN REDCEDAR	0.6 PERCENT
WESTERN LARCH	0.8 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON INITIAL BASAL AREA OF 91.7 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET	CONTROL	40.3		
BASAL AREA	200 # N	40.1	-0.2	-0.5
(SQ.FEET/ACRE)	400 # N	43.8	3.5	9.7
8-YEAR GROSS	CONTROL	1345		
BASAL AREA	200 # N	1278	-67.0	-5.0
(SQ.FEET/ACRE)	400 # N	1440	95.0	7.1
8-YEAR NET	CONTROL	40		
TOTAL VOLUME	200 # N	41	1	2.0
(CU.FEET/ACRE)	400 # N	46	6	14.7
8-YEAR GROSS	CONTROL	1345		
TOTAL VOLUME	200 # N	1266	-79	-5.9
(CU.FEET/ACRE)	400 # N	1502	157	11.7
8-YEAR CHANGE	CONTROL	2.02		
IN AVERAGE DIAMETER	200 # N	1.94	-0.08	-4.0
(INCHES)	400 # N	1.76	-0.26	-12.9
8-YEAR CHANGE	CONTROL	11.10		
IN HEIGHT GROWTH	200 # N	10.50	-0.60	-5.4
(FEET)	400 # N	10.20	-0.90	-8.1

PERIODIC ANNUAL INCREMENT:

		FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
	TRT	INC	DIFF	%	INC	DIFF	%
NET BASAL	CON	5.5			5.5		
AREA PAI	200	6.2	0.7	12.7	6.4	0.9	10.4
(SQ.FT/A)	400	6.1	0.6	10.9	6.9	1.4	25.5
GROSS BASAL	CON	5.5			5.5		
AREA PAI	200	6.0	0.5	9.1	6.0	0.5	9.1
(SQ.FT/A)	400	6.3	0.8	14.5	6.9	1.4	25.5
		THIRD TWO YEARS			FOURTH TWO YEARS		
NET BASAL	CON	4.7			4.5		
AREA PAI	200	4.1	-0.6	-12.8	5.1	0.6	13.3
(SQ.FT/A)	400	4.9	0.2	4.3	3.1	-1.4	-31.1
GROSS BASAL	CON	4.7			4.5		
AREA PAI	200	4.3	-0.4	-8.5	4.3	-0.2	-4.4
(SQ.FT/A)	400	5.2	0.5	10.6	4.5	0.0	0.0

INITIAL STAND CHARACTERISTICS:

AGE	51 YEARS
TREES PER ACRE	213 TREES/ACRE
BASAL AREA	73.1 SQ.FEET/ACRE
TOTAL VOLUME	1522 CU.FEET/ACRE
CCF	92.6
RELATIVE DENSITY INDEX	25.9
MEAN DIAMETER	8.0 INCHES
AVERAGE CROWN LENGTH	24.9 FEET
AVERAGE CROWN RATIO	50.0 PERCENT
SITE HEIGHT (40 TPA)	57.4 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	100.0 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON INITIAL BASAL AREA OF 73.1 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTRL
8-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTRCL	39.1		
	200 # N	43.5	4.4	11.3
	400 # N	41.0	1.9	4.9
8-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	1073		
	200 # N	1283	210.0	19.6
	400 # N	1279	206.0	19.2
8-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	38		
	200 # N	45	7	19.2
	400 # N	41	3	8.7
8-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	1050		
	200 # N	1346	296	28.2
	400 # N	1288	238	22.7
8-YEAR CHANGE IN AVERAGE DIAMETER (INCHES)	CONTROL	1.94		
	200 # N	2.04	0.10	5.2
	400 # N	2.13	0.19	9.8
8-YEAR CHANGE IN HEIGHT GROWTH (FEET)	CONTROL	10.30		
	200 # N	10.70	0.40	3.9
	400 # N	11.50	1.20	11.7

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		INC	RESPONSE		INC	RESPONSE	
			DIFF	%		DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	5.3			5.5		
	200	6.9	1.6	30.2	6.3	0.8	14.5
	400	6.0	0.7	13.2	6.1	0.6	10.9
GROSS BASAL AREA PAI (SQ.FT/A)	CON	5.3			5.4		
	200	7.0	1.7	32.1	6.6	1.2	22.2
	400	6.0	0.7	13.2	6.1	0.7	13.0
		THIRD TWO YEARS			FOURTH TWO YEARS		
		INC	RESPONSE		INC	RESPONSE	
			DIFF	%		DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	4.2			4.7		
	200	4.9	0.7	16.7	2.6	-2.1	-44.7
	400	4.4	0.2	4.9	3.9	-0.8	-17.0
GROSS BASAL AREA PAI (SQ.FT/A)	CON	4.2			4.1		
	200	4.8	0.6	14.3	4.2	0.1	2.4
	400	4.5	0.3	7.1	4.0	-0.1	-2.4

INITIAL STAND CHARACTERISTICS:

AGE	66 YEARS
TREES PER ACRE	280 TREES/ACRE
BASAL AREA	142.9 SQ.FEET/ACRE
TOTAL VOLUME	3809 CU.FEET/ACRE
CCF	164.9
RELATIVE DENSITY INDEX	45.8
MEAN DIAMETER	9.7 INCHES
AVERAGE CROWN LENGTH	26.3 FEET
AVERAGE CROWN RATIO	39.3 PERCENT
SITE HEIGHT (4J TPA)	73.9 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	85.7 PERCENT
WESTERN LARCH	4.0 PERCENT
PONDEROSA PINE	10.3 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
 INITIAL BASAL AREA OF 142.9 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL 200 # N 400 # N	12.6 20.5 16.4	7.9 3.8	62.7 30.2
8-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL 200 # N 400 # N	886.0 1114 926.0	228.0 40.0	25.7 4.5
8-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL 200 # N 400 # N	25 30 31	6 6	22.7 24.3
8-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL 200 # N 400 # N	1233 1298 1323	65 90	5.3 7.3
8-YEAR CHANGE IN AVERAGE DIAMETER (INCHES)	CONTROL 200 # N 400 # N	0.88 1.31 1.12	0.43 0.24	48.9 27.3
8-YEAR CHANGE IN HEIGHT GROWTH (FEET)	CONTROL 200 # N 400 # N	8.40 10.10 8.80	1.70 0.40	20.2 4.8

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON 200 400	2.6 4.6 4.1			-0.2 1.8 0.7		
			2.0 1.5	76.9 57.7		2.0 0.9	1000.0 450.0
GROSS BASAL AREA PAI (SQ.FT/A)	CON 200 400	2.7 4.3 4.1			3.3 4.4 4.5		
			1.6 1.4	59.3 51.9		1.1 1.2	33.3 36.4
	TRT	THIRD TWO YEARS			FOURTH TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON 200 400	2.4 2.8 3.8			1.3 4.3 -0.5		
			0.4 1.4	16.7 58.3		3.0 -1.8	230.8 -133.5
GROSS BASAL AREA PAI (SQ.FT/A)	CON 200 400	3.4 3.8 3.9			2.7 2.8 2.8		
			0.4 0.5	11.8 14.7		0.1 0.1	3.7 3.7

INITIAL STAND CHARACTERISTICS:

AGE	75 YEARS
TREES PER ACRE	218 TREES/ACRE
BASAL AREA	113.6 SQ.FEET/ACRE
TOTAL VOLUME	2776 CU.FEET/ACRE
CCF	131.9
RELATIVE DENSITY INDEX	36.2
MEAN DIAMETER	9.9 INCHES
AVERAGE CROWN LENGTH	28.2 FEET
AVERAGE CROWN RATIO	46.0 PERCENT
SITE HEIGHT (40 TPA)	70.6 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	97.0 PERCENT
WESTERN LARCH	3.0 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON INITIAL BASAL AREA OF 113.6 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	19.9		
	200 # N	31.8	11.9	59.8
	400 # N	33.1	13.2	66.3
8-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	967.0		
	200 # N	1116	149.0	15.4
	400 # N	1289	322.0	33.3
8-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	24		
	200 # N	35	11	47.7
	400 # N	33	9	39.0
8-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	1070		
	200 # N	1115	45	4.2
	400 # N	1282	212	19.8
8-YEAR CHANGE IN AVERAGE DIAMETER (INCHES)	CONTROL	0.80		
	200 # N	1.68	0.88	110.0
	400 # N	1.52	0.72	90.0
8-YEAR CHANGE IN HEIGHT GROWTH (FEET)	CONTROL	7.90		
	200 # N	9.30	1.40	17.7
	400 # N	9.70	1.80	22.8

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	3.3			2.5		
	200	6.0	2.7	81.8	4.9	2.4	96.0
	400	5.7	2.4	72.7	4.2	1.7	69.0
GROSS BASAL AREA PAI (SQ.FT/A)	CON	3.5			2.5		
	200	5.7	2.2	62.9	4.4	1.9	76.0
	400	5.7	2.2	62.9	4.2	1.7	68.0
		THIRD TWO YEARS			FOURTH TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	3.2			0.6		
	200	3.6	0.4	12.5	4.7	4.1	593.3
	400	4.0	0.8	25.0	2.8	2.2	366.7
GROSS BASAL AREA PAI (SQ.FT/A)	CON	3.1			2.4		
	200	4.2	1.1	35.5	3.2	0.8	35.3
	400	3.9	0.8	25.8	2.6	0.2	9.3

INSTALLATION 218 SECOND CREEK
 REGION: NORTHEAST WASHINGTON OWNERSHIP: BCISE CASCADE
 LEGAL DESCRIPTION: T39N R34E SECTION 13 MERIDIAN: WILLAMETTE

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INITIAL STAND CHARACTERISTICS:

AGE	100 YEARS
TREES PER ACRE	152 TREES/ACRE
BASAL AREA	94.7 SQ.FEET/ACRE
TOTAL VOLUME	2247 CU.FEET/ACRE
CCF	107.9
RELATIVE DENSITY INDEX	28.9
MEAN DIAMETER	10.7 INCHES
AVERAGE CROWN LENGTH	26.2 FEET
AVERAGE CROWN RATIO	43.2 PERCENT
SITE HEIGHT (40 TPA)	66.9 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	98.5 PERCENT
WESTERN LARCH	1.5 PERCENT

(SQ.FT/A) 400 3.9 0.8 25.8 2.6 0.2 8.3

INITIAL STAND CHARACTERISTICS:

AGE	100 YEARS
TREES PER ACRE	152 TREES/ACRE
BASAL AREA	94.7 SQ.FEET/ACRE
TOTAL VOLUME	2247 CU.FEET/ACRE
CCF	107.9
RELATIVE DENSITY INDEX	28.9
MEAN DIAMETER	10.7 INCHES
AVERAGE CROWN LENGTH	26.2 FEET
AVERAGE CROWN RATIO	43.2 PERCENT
SITE HEIGHT (40 TPA)	66.9 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	98.5 PERCENT
WESTERN LARCH	1.5 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON INITIAL BASAL AREA OF 94.7 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	23.2		
	200 # N	27.3	4.1	17.7
	400 # N	33.3	10.1	43.5
8-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	815.0		
	200 # N	875.0	60.0	7.4
	400 # N	1016	201.0	24.7
8-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	30		
	200 # N	27	-3	-10.6
	400 # N	32	2	6.3
8-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	968		
	200 # N	879	-89	-9.2
	400 # N	982	14	1.4
8-YEAR CHANGE IN AVERAGE DIAMETER (INCHES)	CONTROL	1.73		
	200 # N	1.43	-0.30	-17.3
	400 # N	1.96	0.23	13.3
8-YEAR CHANGE IN HEIGHT GROWTH (FEET)	CONTROL	6.30		
	200 # N	6.00	-0.30	-4.8
	400 # N	6.80	0.50	7.9

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	4.6			4.1		
	200	4.5	-0.1	-2.2	3.9	-0.2	-4.9
	400	5.5	0.9	19.6	4.7	0.6	14.6
GROSS BASAL AREA PAI (SQ.FT/A)	CON	4.7			4.1		
	200	4.6	-0.1	-2.1	4.0	-0.1	-2.4
	400	5.4	0.7	14.9	4.7	0.6	14.6
		THIRD TWO YEARS			FOURTH TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	3.7			-1.0		
	200	3.2	-0.5	-13.5	1.7	2.7	270.0
	400	4.0	0.3	8.1	3.1	4.1	410.0
GROSS BASAL AREA PAI (SQ.FT/A)	CON	3.7			2.6		
	200	3.1	-0.6	-16.2	1.9	-0.7	-26.9
	400	3.8	0.1	2.7	2.3	-0.3	-11.5

INITIAL STAND CHARACTERISTICS:

AGE	67 YEARS
TREES PER ACRE	243 TREES/ACRE
BASAL AREA	128.2 SQ.FEET/ACRE
TOTAL VOLUME	2920 CU.FEET/ACRE
CCF	137.9
RELATIVE DENSITY INDEX	40.8
MEAN DIAMETER	9.9 INCHES
AVERAGE CROWN LENGTH	26.1 FEET
AVERAGE CROWN RATIO	47.3 PERCENT
SITE HEIGHT (40 TPA)	64.3 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	73.6 PERCENT
PONDEROSA PINE	26.4 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON INITIAL BASAL AREA OF 128.2 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	30.8		
	200 # N	35.0	4.2	13.6
	400 # N	33.5	2.7	3.8
8-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	1002		
	200 # N	1216	214.0	21.4
	400 # N	1259	257.0	25.6
8-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	29		
	200 # N	37	8	25.9
	400 # N	39	10	33.0
8-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	967		
	200 # N	1242	275	28.4
	400 # N	1398	431	44.6
8-YEAR CHANGE IN AVERAGE DIAMETER (INCHES)	CONTROL	1.09		
	200 # N	1.51	0.42	38.5
	400 # N	1.22	0.13	11.9
8-YEAR CHANGE IN HEIGHT GROWTH (FEET)	CONTROL	6.40		
	200 # N	7.80	1.40	21.9
	400 # N	6.70	0.30	4.7

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	4.1			4.1		
	200	5.5	1.4	34.1	5.0	0.9	22.0
	400	5.5	1.4	34.1	5.1	1.0	24.4
GROSS BASAL AREA PAI (SQ.FT/A)	CON	4.0			4.1		
	200	5.5	1.5	37.5	4.8	0.7	17.1
	400	5.7	1.7	42.5	5.1	1.0	24.4
	TRT	THIRD TWO YEARS			FOURTH TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	3.3			4.1		
	200	3.3	0.0	0.0	4.4	0.3	7.3
	400	4.2	0.9	27.3	0.9	-3.2	-78.0
GROSS BASAL AREA PAI (SQ.FT/A)	CON	3.3			3.4		
	200	4.2	0.9	27.3	4.1	0.7	20.0
	400	4.6	1.3	39.4	4.0	0.6	17.0

INITIAL STAND CHARACTERISTICS:

AGE	89 YEARS
TREES PER ACRE	268 TREES/ACRE
BASAL AREA	104.8 SQ.FEET/ACRE
TOTAL VOLUME	2508 CU.FEET/ACRE
CCF	130.1
RELATIVE DENSITY INDEX	35.9
MEAN DIAMETER	8.5 INCHES
AVERAGE CROWN LENGTH	23.2 FEET
AVERAGE CROWN RATIO	42.7 PERCENT
SITE HEIGHT (40 TPA)	67.7 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	88.2 PERCENT
GRAND FIR	8.3 PERCENT
WESTERN LARCH	1.1 PERCENT
LODGEPOLE PINE	0.5 PERCENT
PONDEROSA PINE	1.8 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON INITIAL BASAL AREA OF 104.8 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	12.5		
	200 # N	24.2	11.7	93.6
	400 # N	25.8	13.3	106.4
8-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	396.0		
	200 # N	775.0	379.0	95.7
	400 # N	694.0	298.0	75.3
8-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	22		
	200 # N	26	4	20.5
	400 # N	26	4	20.5
8-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	631		
	200 # N	802	171	27.1
	400 # N	686	55	8.7
8-YEAR CHANGE IN AVERAGE DIAMETER (INCHES)	CONTROL	0.78		
	200 # N	1.23	0.45	57.7
	400 # N	1.12	0.34	43.6
8-YEAR CHANGE IN HEIGHT GROWTH (FEET)	CONTROL	2.20		
	200 # N	4.40	2.20	100.0
	400 # N	4.20	2.00	90.9

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CUN	1.2			2.3		
	200	2.7	1.5	125.0	3.6	1.3	56.5
	400	4.1	2.9	241.7	3.2	0.9	39.1
GROSS BASAL AREA PAI (SQ.FT/A)	CUN	2.2			2.3		
	200	3.4	1.2	54.5	3.4	1.1	47.8
	400	4.0	1.8	81.8	3.6	1.3	56.5
		THIRD TWO YEARS			FOURTH TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CUN	2.4			0.1		
	200	3.0	0.6	25.0	3.4	3.3	3300.0
	400	2.9	0.5	20.8	3.2	3.1	3100.0
GROSS BASAL AREA PAI (SQ.FT/A)	CUN	3.0			3.1		
	200	3.0	0.0	0.0	3.1	0.0	0.0
	400	2.8	-0.2	-6.7	2.7	-0.4	-12.9

INITIAL STAND CHARACTERISTICS:

AGE	82 YEARS
TREES PER ACRE	180 TREES/ACRE
BASAL AREA	118.1 SQ.FEET/ACRE
TOTAL VOLUME	2919 CU.FEET/ACRE
CCF	126.1
RELATIVE DENSITY INDEX	35.5
MEAN DIAMETER	11.0 INCHES
AVERAGE CROWN LENGTH	28.8 FEET
AVERAGE CROWN RATIO	50.2 PERCENT
SITE HEIGHT (40 TPA)	72.2 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	87.8 PERCENT
GRAND FIR	1.5 PERCENT
WESTERN LARCH	2.1 PERCENT
LUGGECLE PINE	0.9 PERCENT
PONDEROSA PINE	7.3 PERCENT
ENGELMANN SPRUCE	0.5 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON INITIAL BASAL AREA OF 118.1 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	12.4		
	200 # N	35.5	23.1	186.3
	400 # N	28.9	16.5	133.1
8-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	788.0		
	200 # N	1111	323.0	41.0
	400 # N	849.0	61.0	7.7
8-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	21		
	200 # N	37	16	76.4
	400 # N	31	10	49.0
8-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	1017		
	200 # N	1091	74	7.3
	400 # N	914	-103	-10.1
8-YEAR CHANGE IN AVERAGE DIAMETER (INCHES)	CONTROL	0.84		
	200 # N	1.69	0.85	101.2
	400 # N	1.68	0.84	100.0
8-YEAR CHANGE IN HEIGHT GROWTH (FEET)	CONTROL	5.00		
	200 # N	7.30	2.30	46.0
	400 # N	6.30	1.30	26.0

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	0.7			1.8		
	200	4.9	4.2	600.0	5.0	3.2	177.9
	400	4.4	3.7	528.6	3.8	2.0	111.1
GROSS BASAL AREA PAI (SQ.FT/A)	CON	2.1			1.8		
	200	4.7	2.6	123.8	4.4	2.6	144.4
	400	4.0	1.9	90.5	3.8	2.0	111.1
	TRT	THIRD TWO YEARS			FOURTH TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	2.4			0.6		
	200	4.3	1.9	79.2	6.0	5.4	900.0
	400	4.5	2.1	87.5	3.4	2.8	466.7
GROSS BASAL AREA PAI (SQ.FT/A)	CON	2.3			3.7		
	200	4.5	2.2	95.7	4.8	1.1	29.7
	400	3.9	1.6	69.6	4.0	0.3	3.1

INITIAL STAND CHARACTERISTICS:

AGE	71 YEARS
TREES PER ACRE	355 TREES/ACRE
BASAL AREA	138.6 SQ.FEET/ACRE
TOTAL VOLUME	3151 CU.FEET/ACRE
CCF	165.9
RELATIVE DENSITY INDEX	47.4
MEAN DIAMETER	8.7 INCHES
AVERAGE CROWN LENGTH	21.9 FEET
AVERAGE CROWN RATIO	41.2 PERCENT
SITE HEIGHT (40 TPA)	64.2 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	90.0 PERCENT
GRAND FIR	0.8 PERCENT
PONDEROSA PINE	9.2 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON INITIAL BASAL AREA OF 138.6 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	27.9		
	200 # N	27.5	-0.4	-1.4
	400 # N	27.9	0.0	0.0
8-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	951.0		
	200 # N	886.0	-65.0	-6.8
	400 # N	990.0	39.0	4.1
8-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	29		
	200 # N	29	0	0.0
	400 # N	32	3	9.3
8-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	992		
	200 # N	853	-139	-14.0
	400 # N	1107	115	11.6
8-YEAR CHANGE IN AVERAGE DIAMETER (INCHES)	CONTROL	0.78		
	200 # N	1.07	0.29	37.2
	400 # N	0.72	-0.06	-7.7
8-YEAR CHANGE IN HEIGHT GROWTH (FEET)	CONTROL	5.30		
	200 # N	5.50	0.20	3.8
	400 # N	5.10	-0.20	-3.8

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		INC	RESPONSE		INC	RESPONSE	
			DIFF	%		DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	4.3			4.6		
	200	5.4	1.1	25.6	5.4	0.8	17.4
	400	4.8	0.5	11.6	4.6	0.0	0.0
GROSS BASAL AREA PAI (SQ.FT/A)	CON	4.4			4.6		
	200	5.1	0.7	15.9	4.3	-0.3	-6.5
	400	5.0	0.6	13.6	4.6	0.0	0.0
	TRT	THIRD TWO YEARS			FOURTH TWO YEARS		
		INC	RESPONSE		INC	RESPONSE	
			DIFF	%		DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	2.8			2.1		
	200	2.5	-0.3	-10.7	4.0	1.9	90.5
	400	2.7	-0.1	-3.6	0.7	-1.4	-60.7
GROSS BASAL AREA PAI (SQ.FT/A)	CON	2.7			2.7		
	200	2.8	0.1	3.7	2.4	-0.3	-11.1
	400	3.5	0.8	29.0	2.6	-0.1	-3.7

INITIAL STAND CHARACTERISTICS:

AGE	75 YEARS
TREES PER ACRE	225 TREES/ACRE
BASAL AREA	111.3 SQ.FEET/ACRE
TOTAL VOLUME	2708 CU.FEET/ACRE
CCF	123.9
RELATIVE DENSITY INDEX	35.9
MEAN DIAMETER	5.6 INCHES
AVERAGE CROWN LENGTH	28.1 FEET
AVERAGE CROWN RATIO	49.8 PERCENT
SITE HEIGHT (40 TPA)	69.0 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	82.5 PERCENT
GRAND FIR	0.3 PERCENT
PONDEROSA PINE	16.7 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON INITIAL BASAL AREA OF 111.3 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	22.6		
	200 # N	38.0	15.4	68.1
	400 # N	25.5	2.9	12.8
8-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	864.0		
	200 # N	1274	+410.0	47.5
	400 # N	944.0	-80.0	9.3
8-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	25		
	200 # N	39	14	55.6
	400 # N	31	6	23.4
8-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	924		
	200 # N	1264	340	36.8
	400 # N	1098	174	18.8
8-YEAR CHANGE IN AVERAGE DIAMETER (INCHES)	CONTROL	0.97		
	200 # N	1.49	0.52	53.6
	400 # N	1.42	0.45	46.4
8-YEAR CHANGE IN HEIGHT GROWTH (FEET)	CONTROL	5.50		
	200 # N	7.50	2.00	36.4
	400 # N	6.90	1.40	25.5

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		INC	RESPONSE		INC	RESPONSE	
			DIFF	%		DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	3.2			3.3		
	200	6.4	3.2	100.0	6.0	2.7	81.8
	400	5.4	2.2	68.7	4.4	1.1	33.3
GROSS BASAL AREA PAI (SQ.FT/A)	CON	3.3			3.3		
	200	6.3	3.0	90.9	5.6	2.3	89.7
	400	5.3	2.0	60.6	4.4	1.1	33.3
		THIRD TWO YEARS			FOURTH TWO YEARS		
		INC	RESPONSE		INC	RESPONSE	
			DIFF	%		DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	2.9			1.7		
	200	4.0	1.1	37.9	3.9	2.2	129.4
	400	2.5	-0.4	-13.8	0.8	-0.9	-52.9
GROSS BASAL AREA PAI (SQ.FT/A)	CON	2.9			2.8		
	200	4.1	1.2	41.4	3.3	0.5	17.9
	400	3.3	0.4	13.8	2.4	-0.4	-14.3

INITIAL STAND CHARACTERISTICS:

AGE	74 YEARS
TREES PER ACRE	103 TREES/ACRE
BASAL AREA	155.3 SQ.FEET/ACRE
TOTAL VOLUME	5852 CU.FEET/ACRE
CCF	135.5
RELATIVE DENSITY INDEX	38.0
MEAN DIAMETER	16.7 INCHES
AVERAGE CROWN LENGTH	40.3 FEET
AVERAGE CROWN RATIO	46.0 PERCENT
SITE HEIGHT (40 TPA)	114.9 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	93.4 PERCENT
GRAND FIR	6.6 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON INITIAL BASAL AREA OF 155.3 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	38.3		
	200 # N	45.3	7.0	18.3
	400 # N	42.3	4.0	10.4
8-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	1568		
	200 # N	1995	427.0	27.2
	400 # N	1923	355.0	22.6
8-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	37		
	200 # N	44	7	20.1
	400 # N	42	5	13.9
8-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	1518		
	200 # N	2066	548	36.1
	400 # N	1912	394	26.0
8-YEAR CHANGE IN AVERAGE DIAMETER (INCHES)	CONTROL	2.17		
	200 # N	2.10	-0.07	-3.2
	400 # N	2.34	0.17	7.8
8-YEAR CHANGE IN HEIGHT GROWTH (FEET)	CONTROL	5.00		
	200 # N	5.60	0.60	12.0
	400 # N	5.80	0.80	16.0

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		INC	RESPONSE		INC	RESPONSE	
			DIFF	%		DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	3.9			5.2		
	200	5.2	1.3	33.3	4.1	-1.1	-21.2
	400	5.9	2.0	51.3	5.8	0.6	11.5
GROSS BASAL AREA PAI (SQ.FT/A)	CON	4.5			5.2		
	200	5.6	1.1	24.4	5.9	0.7	13.5
	400	5.8	1.3	28.9	5.8	0.6	11.5
	TRT	THIRD TWO YEARS			FOURTH TWO YEARS		
		INC	RESPONSE		INC	RESPONSE	
			DIFF	%		DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	4.7			5.7		
	200	6.1	1.4	29.8	2.7	-3.0	-52.6
	400	5.7	1.0	21.3	3.9	-1.8	-31.6
GROSS BASAL AREA PAI (SQ.FT/A)	CON	4.8			4.2		
	200	5.8	1.0	20.8	4.8	0.6	14.3
	400	5.6	0.8	16.7	3.7	-0.5	-11.9

 INITIAL STAND CHARACTERISTICS:

AGE	85 YEARS
TREES PER ACRE	160 TREES/ACRE
BASAL AREA	109.8 SQ.FEET/ACRE
TOTAL VOLUME	2817 CU.FEET/ACRE
CCF	121.1
RELATIVE DENSITY INDEX	32.7
MEAN DIAMETER	11.1 INCHES
AVERAGE CROWN LENGTH	29.4 FEET
AVERAGE CROWN RATIO	45.7 PERCENT
SITE HEIGHT (40 TPA)	74.1 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	99.4 PERCENT
PONDEROSA PINE	0.6 PERCENT

 GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
 INITIAL BASAL AREA OF 109.8 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET	CONTROL	35.7		
BASAL AREA	200 # N	39.1	3.4	9.5
(SQ.FEET/ACRE)	400 # N	51.2	15.5	43.4
8-YEAR GROSS	CONTROL	1218		
BASAL AREA	200 # N	1376	158.0	13.0
(SQ.FEET/ACRE)	400 # N	1763	545.0	44.7
8-YEAR NET	CONTROL	34		
TOTAL VOLUME	200 # N	37	3	8.4
(CU.FEET/ACRE)	400 # N	50	15	44.8
8-YEAR GROSS	CONTROL	1187		
TOTAL VOLUME	200 # N	1414	227	19.1
(CU.FEET/ACRE)	400 # N	1718	531	44.7
8-YEAR CHANGE	CONTROL	1.69		
IN AVERAGE DIAMETER	200 # N	1.72	0.03	1.8
(INCHES)	400 # N	2.55	0.90	53.3
8-YEAR CHANGE	CONTROL	7.90		
IN HEIGHT GROWTH	200 # N	8.60	0.70	8.9
(FEET)	400 # N	10.80	2.90	36.7

 PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL	CON	4.4			4.9		
AREA PAI	200	4.5	0.1	2.3	4.4	-0.5	-10.2
(SQ.FT/A)	400	7.7	3.3	75.0	7.4	2.5	51.0
GROSS BASAL	CON	4.3			4.9		
AREA PAI	200	4.8	0.5	11.6	5.6	0.7	14.3
(SQ.FT/A)	400	7.5	3.2	74.4	7.4	2.5	51.0
	TRT	THIRD TWO YEARS			FOURTH TWO YEARS		
		INC	DIFF	%	INC	DIFF	%
		INC	DIFF	%	INC	DIFF	%
NET BASAL	CON	4.1			4.5		
AREA PAI	200	4.4	0.3	7.3	2.1	-2.4	-53.3
(SQ.FT/A)	400	6.1	2.0	48.8	5.2	0.7	15.6
GROSS BASAL	CON	4.1			3.9		
AREA PAI	200	4.1	0.0	0.0	3.9	0.0	0.0
(SQ.FT/A)	400	5.8	1.7	41.5	4.2	0.3	7.7

INITIAL STAND CHARACTERISTICS:

AGE	79 YEARS
TREES PER ACRE	132 TREES/ACRE
BASAL AREA	38.1 SQ.FEET/ACRE
TOTAL VOLUME	2045 CU.FEET/ACRE
CCF	95.2
RELATIVE DENSITY INDEX	26.4
MEAN DIAMETER	11.1 INCHES
AVERAGE CROWN LENGTH	35.7 FEET
AVERAGE CROWN RATIO	61.7 PERCENT
SITE HEIGHT (40 TPA)	66.4 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	95.1 PERCENT
PONDEROSA PINE	0.9 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
 INITIAL BASAL AREA OF 88.1 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL 200 # N 400 # N	20.7 28.5 35.5		
			7.6 14.8	37.7 71.5
8-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL 200 # N 400 # N	785.0 950.0 1077		
			165.0 292.0	21.0 37.2
8-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL 200 # N 400 # N	22 28 34		
			6 12	27.6 54.3
8-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL 200 # N 400 # N	820 954 1034		
			134 214	16.3 26.1
8-YEAR CHANGE IN AVERAGE DIAMETER (INCHES)	CONTROL 200 # N 400 # N	1.29 1.69 2.15		
			0.40 0.86	31.0 66.7
8-YEAR CHANGE IN HEIGHT GROWTH (FEET)	CONTROL 200 # N 400 # N	7.20 8.00 9.40		
			0.80 2.20	11.1 33.6

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON 200 400	2.9 4.4 5.6			2.8 3.8 4.9		
			1.5 2.7	51.7 93.1	1.0 2.1		35.7 75.0
GROSS BASAL AREA PAI (SQ.FT/A)	CON 200 400	3.0 4.5 5.4			2.8 4.0 4.8		
			1.5 2.4	50.0 80.0	1.2 2.0		42.9 71.4
	TRT	THIRD TWO YEARS			FOURTH TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON 200 400	2.5 3.0 4.1			2.0 2.4 4.2		
			0.5 1.6	20.0 64.0	0.4 2.2		20.0 110.0
GROSS BASAL AREA PAI (SQ.FT/A)	CON 200 400	2.5 2.9 3.8			2.7 2.7 3.1		
			0.4 1.3	16.0 52.0	0.0 0.4		0.0 14.8

INITIAL STAND CHARACTERISTICS:

AGE	80 YEARS
TREES PER ACRE	123 TREES/ACRE
BASAL AREA	101.6 SQ.FEET/ACRE
TOTAL VOLUME	2670 CU.FEET/ACRE
CCF	110.2
RELATIVE DENSITY INDEX	28.9
MEAN DIAMETER	12.3 INCHES
AVERAGE CROWN LENGTH	37.1 FEET
AVERAGE CROWN RATIO	54.0 PERCENT
SITE HEIGHT (40 TPA)	73.5 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	98.1 PERCENT
PONDEROSA PINE	1.9 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON INITIAL BASAL AREA OF 101.6 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET	CONTROL	25.4		
BASAL AREA	200 # N	28.5	3.1	12.2
(SQ.FEET/ACRE)	400 # N	25.2	-0.2	-0.8
8-YEAR GROSS	CONTROL	787.0		
BASAL AREA	200 # N	1181	394.0	50.1
(SQ.FEET/ACRE)	400 # N	1027	240.0	30.5
8-YEAR NET	CONTROL	22		
TOTAL VOLUME	200 # N	27	5	22.3
(CU.FEET/ACRE)	400 # N	26	4	16.3
8-YEAR GROSS	CONTROL	704		
TOTAL VOLUME	200 # N	1213	509	72.3
(CU.FEET/ACRE)	400 # N	1046	342	48.6
8-YEAR CHANGE	CONTROL	1.36		
IN AVERAGE DIAMETER	200 # N	1.39	0.03	2.2
(INCHES)	400 # N	1.46	0.10	7.4
8-YEAR CHANGE	CONTROL	7.60		
IN HEIGHT GROWTH	200 # N	8.70	1.10	14.5
(FEET)	400 # N	8.50	0.90	11.8

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		INC	RESPONSE		INC	RESPONSE	
			DIFF	%		DIFF	%
NET BASAL	CON	3.0			3.7		
AREA PAI	200	3.8	0.8	26.7	2.3	-0.9	-24.3
(SQ.FT/A)	400	3.7	0.7	23.3	3.8	0.1	2.7
GROSS BASAL	CON	2.8			3.7		
AREA PAI	200	4.1	1.3	46.4	3.8	0.1	2.7
(SQ.FT/A)	400	3.8	1.0	35.7	3.8	0.1	2.7
	TRT	THIRD TWO YEARS			FOURTH TWO YEARS		
		INC	RESPONSE		INC	RESPONSE	
			DIFF	%		DIFF	%
NET BASAL	CON	2.4			3.9		
AREA PAI	200	3.2	0.8	33.3	0.8	-3.1	-79.5
(SQ.FT/A)	400	2.7	0.3	12.5	2.0	-1.9	-43.7
GROSS BASAL	CON	2.5			2.2		
AREA PAI	200	2.9	0.4	16.0	2.5	0.3	13.6
(SQ.FT/A)	400	2.8	0.3	12.0	2.4	0.2	9.1

INITIAL STAND CHARACTERISTICS:

AGE	64 YEARS
TREES PER ACRE	212 TREES/ACRE
BASAL AREA	140.4 SQ.FEET/ACRE
TOTAL VOLUME	3922 CU.FEET/ACRE
CCF	152.3
RELATIVE DENSITY INDEX	42.1
MEAN DIAMETER	11.2 INCHES
AVERAGE CROWN LENGTH	31.3 FEET
AVERAGE CROWN RATIO	43.3 PERCENT
SITE HEIGHT (40 TPA)	79.4 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	89.1 PERCENT
PONDEROSA PINE	10.9 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON INITIAL BASAL AREA OF 140.4 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	-10.0		
	200 # N	14.8	24.8	248.0
	400 # N	33.1	43.1	431.0
8-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	144.0		
	200 # N	868.0	724.0	502.8
	400 # N	1371	1227	852.1
8-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	25		
	200 # N	29	4	13.9
	400 # N	33	8	32.7
8-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	1194		
	200 # N	1186	-8	-0.7
	400 # N	1381	187	15.7
8-YEAR CHANGE IN AVERAGE DIAMETER (INCHES)	CONTROL	1.43		
	200 # N	1.38	-0.05	-3.5
	400 # N	1.25	-0.18	-12.6
8-YEAR CHANGE IN HEIGHT GROWTH (FEET)	CONTROL	8.00		
	200 # N	8.00	0.00	0.0
	400 # N	8.00	0.00	0.0

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	3.1			4.0		
	200	3.4	0.3	9.7	4.2	0.2	5.0
	400	4.5	1.4	45.2	5.5	1.5	37.5
GROSS BASAL AREA PAI (SQ.FT/A)	CON	3.2			4.0		
	200	4.0	0.8	25.0	4.6	0.6	15.0
	400	4.5	1.3	40.6	5.5	1.5	37.5
	TRT	THIRD TWO YEARS			FOURTH TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	-2.1			-10.2		
	200	2.5	4.6	219.0	-0.9	9.3	91.2
	400	3.5	5.6	266.7	3.0	13.2	129.4
GROSS BASAL AREA PAI (SQ.FT/A)	CON	2.4			2.8		
	200	2.6	0.2	8.3	3.1	0.3	10.7
	400	3.6	1.2	50.0	3.1	0.3	10.7

INITIAL STAND CHARACTERISTICS:

AGE	69 YEARS
TREES PER ACRE	113 TREES/ACRE
BASAL AREA	130.2 SQ.FEET/ACRE
TOTAL VOLUME	4127 CU.FEET/ACRE
CCF	128.0
RELATIVE DENSITY INDEX	34.1
MEAN DIAMETER	14.5 INCHES
AVERAGE CROWN LENGTH	41.5 FEET
AVERAGE CROWN RATIO	48.7 PERCENT
SITE HEIGHT (40 TPA)	90.6 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	99.4 PERCENT
PUNDEROSA PINE	0.6 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON INITIAL BASAL AREA OF 130.2 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	30.4		
	200 # N	30.5	0.1	0.3
	400 # N	38.6	8.2	27.0
8-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	1337		
	200 # N	1411	74.0	5.5
	400 # N	1571	234.0	17.5
8-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	30		
	200 # N	30	-0	-1.0
	400 # N	38	8	25.4
8-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	1334		
	200 # N	1423	89	6.7
	400 # N	1553	219	16.4
8-YEAR CHANGE IN AVERAGE DIAMETER (INCHES)	CONTROL	1.63		
	200 # N	1.65	0.02	1.2
	400 # N	1.96	0.33	20.2
8-YEAR CHANGE IN HEIGHT GROWTH (FEET)	CONTROL	7.70		
	200 # N	9.00	1.30	16.9
	400 # N	8.80	1.10	14.3

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	4.1			4.4		
	200	4.2	0.1	2.4	4.5	0.1	2.3
	400	5.2	1.1	26.8	6.0	1.6	36.4
GROSS BASAL AREA PAI (SQ.FT/A)	CON	4.1			4.4		
	200	4.3	0.2	4.9	4.8	0.4	9.1
	400	5.2	1.1	26.8	6.0	1.6	36.4
	TRT	THIRD TWO YEARS			FOURTH TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	3.2			3.5		
	200	2.7	-0.5	-15.6	2.6	-0.4	-25.7
	400	3.9	0.7	21.9	4.4	0.9	25.7
GROSS BASAL AREA PAI (SQ.FT/A)	CON	3.2			3.5		
	200	2.7	-0.5	-15.6	3.1	-0.4	-11.4
	400	3.8	0.6	18.7	4.1	0.6	17.1

INSTALLATION 230 M.F. TEANAWAY RIVER
 REGION: CENTRAL WASHINGTON OWNERSHIP: BOISE CASCADE
 LEGAL DESCRIPTION: T21N R15E SECTION 20 MERIDIAN: WILLAMETTE

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INITIAL STAND CHARACTERISTICS:

AGE	81 YEARS
TREES PER ACRE	123 TREES/ACRE
BASAL AREA	124.2 SQ.FEET/ACRE
TOTAL VOLUME	3961 CU.FEET/ACRE
CCF	115.5
RELATIVE DENSITY INDEX	33.9
MEAN DIAMETER	13.5 INCHES
AVERAGE CROWN LENGTH	38.2 FEET
AVERAGE CROWN RATIO	48.7 PERCENT
SITE HEIGHT (40 TPA)	94.0 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	86.0 PERCENT
GRAND FIR	2.2 PERCENT
LUGDEPOLE PINE	1.0 PERCENT
PONDEROSA PINE	10.8 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
 INITIAL BASAL AREA OF 124.2 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET	CONTROL	25.2		
BASAL AREA	200 # N	38.7	13.5	53.6
(SQ.FEET/ACRE)	400 # N	48.5	23.3	92.5
8-YEAR GROSS	CONTROL	1252		
BASAL AREA	200 # N	1783	531.0	42.4
(SQ.FEET/ACRE)	400 # N	2049	797.0	63.7
8-YEAR NET	CONTROL	27		
TOTAL VOLUME	200 # N	39	12	46.3
(CU.FEET/ACRE)	400 # N	48	21	70.4
8-YEAR GROSS	CONTROL	1297		
TOTAL VOLUME	200 # N	1787	490	37.8
(CU.FEET/ACRE)	400 # N	2026	729	56.2
8-YEAR CHANGE	CONTROL	1.49		
IN AVERAGE DIAMETER	200 # N	2.37	0.58	58.9
(INCHES)	400 # N	2.58	1.09	73.2
8-YEAR CHANGE	CONTROL	7.80		
IN HEIGHT GROWTH	200 # N	10.30	2.50	32.1
(FEET)	400 # N	10.60	2.80	35.9

PERIODIC ANNUAL INCREMENT:

		FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
	TRT	INC	DIFF	%	INC	DIFF	%
NET BASAL	CON	2.1			3.3		
AREA PAI	200	4.0	1.9	90.5	5.6	2.3	69.7
(SQ.FT/A)	400	5.1	3.0	142.9	7.1	3.8	115.2
GROSS BASAL	CON	2.2			3.3		
AREA PAI	200	4.0	1.8	81.8	5.5	2.2	66.7
(SQ.FT/A)	400	5.0	2.8	127.3	7.1	3.8	115.2
		THIRD TWO YEARS			FOURTH TWO YEARS		
NET BASAL	CON	3.1			3.9		
AREA PAI	200	4.5	1.4	45.2	5.5	1.6	41.0
(SQ.FT/A)	400	6.2	3.1	100.0	6.3	2.4	61.5
GROSS BASAL	CON	3.3			4.5		
AREA PAI	200	4.7	1.4	42.4	5.4	0.9	20.0
(SQ.FT/A)	400	6.0	2.7	81.8	5.8	1.3	28.9

INITIAL STAND CHARACTERISTICS:

AGE	54 YEARS
TREES PER ACRE	197 TREES/ACRE
BASAL AREA	137.7 SQ.FEET/ACRE
TOTAL VOLUME	3678 CU.FEET/ACRE
CCF	147.1
RELATIVE DENSITY INDEX	40.9
MEAN DIAMETER	11.3 INCHES
AVERAGE CROWN LENGTH	34.2 FEET
AVERAGE CROWN RATIO	49.0 PERCENT
SITE HEIGHT (40 TPA)	75.5 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	85.8 PERCENT
WESTERN LARCH	7.0 PERCENT
PUNDEROSA PINE	7.2 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
 INITIAL BASAL AREA OF 137.7 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET	CONTROL	34.7		
BASAL AREA	200 # N	37.1	2.4	6.9
(SQ.FEET/ACRE)	400 # N	34.2	-0.5	-1.4
8-YEAR GROSS	CONTROL	1244		
BASAL AREA	200 # N	1520	276.0	22.2
(SQ.FEET/ACRE)	400 # N	1468	224.0	18.0
8-YEAR NET	CONTROL	33		
TOTAL VOLUME	200 # N	37	4	11.6
(CU.FEET/ACRE)	400 # N	37	5	14.4
8-YEAR GROSS	CONTROL	1188		
TOTAL VOLUME	200 # N	1533	345	29.0
(CU.FEET/ACRE)	400 # N	1565	377	31.7
8-YEAR CHANGE	CONTROL	1.33		
IN AVERAGE DIAMETER	200 # N	1.33	0.00	0.0
(INCHES)	400 # N	1.52	0.19	14.3
8-YEAR CHANGE	CONTROL	7.80		
IN HEIGHT GROWTH	200 # N	8.90	1.10	14.1
(FEET)	400 # N	9.50	1.70	21.8

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL	CON	5.5			3.3		
AREA PAI	200	6.4	0.9	16.4	3.1	-0.2	-6.1
(SQ.FT/A)	400	6.7	1.2	21.8	2.1	-1.2	-36.4
GROSS BASAL	CON	5.4			3.3		
AREA PAI	200	6.5	1.1	20.4	3.5	0.2	6.1
(SQ.FT/A)	400	6.8	1.4	25.9	3.3	0.0	0.0
	TRT	THIRD TWO YEARS			FOURTH TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL	CON	4.1			4.7		
AREA PAI	200	4.2	0.1	2.4	3.5	-1.2	-25.5
(SQ.FT/A)	400	4.2	0.1	2.4	3.6	-1.1	-23.4
GROSS BASAL	CON	4.2			3.7		
AREA PAI	200	4.1	-0.1	-2.4	4.1	0.4	10.8
(SQ.FT/A)	400	4.4	0.2	4.8	4.1	0.4	10.8

INITIAL STAND CHARACTERISTICS:

AGE	61 YEARS
TREES PER ACRE	168 TREES/ACRE
BASAL AREA	97.0 SQ.FEET/ACRE
TOTAL VOLUME	2247 CU.FEET/ACRE
CCF	110.1
RELATIVE DENSITY INDEX	30.2
MEAN DIAMETER	10.3 INCHES
AVERAGE CROWN LENGTH	27.6 FEET
AVERAGE CROWN RATIO	47.3 PERCENT
SITE HEIGHT (40 TPA)	65.5 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	95.0 PERCENT
WESTERN LARCH	0.1 PERCENT
PONDEROSA PINE	4.9 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON INITIAL BASAL AREA OF 97.0 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	14.8		
	200 # N	23.8	9.0	60.8
	400 # N	16.7	1.9	12.8
8-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	581.0		
	200 # N	708.0	127.0	21.9
	400 # N	647.0	66.0	11.4
8-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	20		
	200 # N	25	5	24.3
	400 # N	23	3	13.4
8-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	714		
	200 # N	688	-26	-3.6
	400 # N	812	98	13.7
8-YEAR CHANGE IN AVERAGE DIAMETER (INCHES)	CONTROL	0.96		
	200 # N	1.36	0.40	41.7
	400 # N	1.14	0.18	18.7
8-YEAR CHANGE IN HEIGHT GROWTH (FEET)	CONTROL	5.70		
	200 # N	5.80	0.10	1.8
	400 # N	6.10	0.40	7.0

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	3.4			1.9		
	200	4.9	1.5	44.1	3.5	1.6	84.2
	400	4.1	0.7	20.6	2.2	0.3	15.8
GROSS BASAL AREA PAI (SQ.FT/A)	CON	3.5			1.9		
	200	4.6	1.1	31.4	2.7	0.8	42.1
	400	4.3	0.8	22.9	2.2	0.3	15.8
	TRT	THIRD TWO YEARS			FOURTH TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	2.7			-0.8		
	200	2.7	0.0	0.0	3.6	4.4	550.0
	400	2.6	-0.1	-3.7	-1.3	-0.5	-62.5
GROSS BASAL AREA PAI (SQ.FT/A)	CON	2.7			1.9		
	200	3.0	0.3	11.1	2.4	0.5	26.3
	400	2.8	0.1	3.7	2.1	0.2	10.5

INITIAL STAND CHARACTERISTICS:

AGE	54 YEARS
TREES PER ACRE	173 TREES/ACRE
BASAL AREA	144.3 SQ.FEET/ACRE
TOTAL VOLUME	3949 CU.FEET/ACRE
CCF	153.8
RELATIVE DENSITY INDEX	41.0
MEAN DIAMETER	12.4 INCHES
AVERAGE CROWN LENGTH	34.8 FEET
AVERAGE CROWN RATIO	48.3 PERCENT
SITE HEIGHT (40 TPA)	76.8 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	93.2 PERCENT
WESTERN LARCH	2.4 PERCENT
PONDEROSA PINE	4.4 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON INITIAL BASAL AREA OF 144.3 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	25.2		
	200 # N	32.4	7.2	28.6
	400 # N	35.7	10.5	41.7
8-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	1198		
	200 # N	1376	178.0	14.9
	400 # N	1373	175.0	14.6
8-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	28		
	200 # N	33	5	18.2
	400 # N	35	7	23.9
8-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	1297		
	200 # N	1363	76	5.9
	400 # N	1336	49	3.8
8-YEAR CHANGE IN AVERAGE DIAMETER (INCHES)	CONTROL	1.03		
	200 # N	1.38	0.35	34.0
	400 # N	1.57	0.54	52.4
8-YEAR CHANGE IN HEIGHT GROWTH (FEET)	CONTROL	7.20		
	200 # N	8.70	1.50	20.8
	400 # N	8.30	1.10	15.3

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	4.2			2.3		
	200	5.8	1.6	38.1	4.0	1.7	73.9
	400	6.0	1.8	42.9	3.3	1.5	65.2
GROSS BASAL AREA PAI (SQ.FT/A)	CON	4.4			2.3		
	200	5.6	1.2	27.3	3.6	1.3	56.5
	400	5.9	1.5	34.1	3.3	1.5	65.2
	TRT	THIRD TWO YEARS			FOURTH TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	3.8			2.0		
	200	3.8	0.0	0.0	4.1	2.1	105.0
	400	4.5	0.7	18.4	4.1	2.1	105.0
GROSS BASAL AREA PAI (SQ.FT/A)	CON	3.7			3.4		
	200	3.9	0.2	5.4	3.4	0.0	0.0
	400	4.3	0.6	16.2	3.5	0.1	2.9

INITIAL STAND CHARACTERISTICS:

AGE	59 YEARS
TREES PER ACRE	177 TREES/ACRE
BASAL AREA	131.5 SQ.FEET/ACRE
TOTAL VOLUME	3491 CU.FEET/ACRE
CCF	137.8
RELATIVE DENSITY INDEX	39.4
MEAN DIAMETER	11.7 INCHES
AVERAGE CROWN LENGTH	36.0 FEET
AVERAGE CROWN RATIO	53.0 PERCENT
SITE HEIGHT (40 TPA)	73.7 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	76.7 PERCENT
GRAND FIR	1.0 PERCENT
WESTERN LARCH	5.1 PERCENT
PONDEROSA PINE	17.3 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON INITIAL BASAL AREA OF 131.5 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	27.9		
	200 # N	27.1	-0.8	-2.9
	400 # N	.	.	.
8-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	1336		
	200 # N	1254	-82.0	-6.1
	400 # N	.	.	.
8-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	30		
	200 # N	27	-3	-10.8
	400 # N	.	.	.
8-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	1386		
	200 # N	1266	-120	-8.7
	400 # N	.	.	.
8-YEAR CHANGE IN AVERAGE DIAMETER (INCHES)	CONTROL	1.10		
	200 # N	1.04	-0.06	-5.5
	400 # N	.	.	.
8-YEAR CHANGE IN HEIGHT GROWTH (FEET)	CONTROL	8.20		
	200 # N	8.20	0.00	0.0
	400 # N	.	.	.

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	4.5			2.8		
	200	4.8	0.3	6.7	2.2	-0.6	-21.4
	400	5.7	1.2	26.7	3.2	0.4	14.3
GROSS BASAL AREA PAI (SQ.FT/A)	CON	4.7			2.8		
	200	4.9	0.2	4.3	2.7	-0.1	-3.6
	400	5.3	0.6	12.8	3.1	0.3	10.7
		THIRD TWO YEARS			FOURTH TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	3.7			1.8		
	200	3.9	0.2	5.4	1.6	-0.2	-11.1
	400	2.7	-1.0	-27.0	.	.	.
GROSS BASAL AREA PAI (SQ.FT/A)	CON	3.7			2.7		
	200	3.8	0.1	2.7	2.2	-0.5	-18.5
	400	3.4	-0.3	-8.1	.	.	.

INITIAL STAND CHARACTERISTICS:

AGE	74 YEARS
TREES PER ACRE	327 TREES/ACRE
BASAL AREA	110.3 SQ.FEET/ACRE
TOTAL VOLUME	2487 CU.FEET/ACRE
CCF	131.1
RELATIVE DENSITY INDEX	39.2
MEAN DIAMETER	8.0 INCHES
AVERAGE CROWN LENGTH	20.7 FEET
AVERAGE CROWN RATIO	37.8 PERCENT
SITE HEIGHT (40 TPA)	63.2 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	81.1 PERCENT
WESTERN LARCH	0.3 PERCENT
LODGEPOLE PINE	0.8 PERCENT
PUNDEROSA PINE	17.8 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON INITIAL BASAL AREA OF 110.3 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
3-YEAR NET	CONTROL	18.8		
BASAL AREA	200 # N	18.9	0.1	0.5
(SQ.FEET/ACRE)	400 # N	10.7	-9.1	-43.1
8-YEAR GROSS	CONTROL	593.0		
BASAL AREA	200 # N	718.0	125.0	21.1
(SQ.FEET/ACRE)	400 # N	477.0	-116	-19.6
8-YEAR NET	CONTROL	20		
TOTAL VOLUME	200 # N	22	3	14.4
(CU.FEET/ACRE)	400 # N	24	4	21.5
8-YEAR GROSS	CONTROL	597		
TOTAL VOLUME	200 # N	800	203	34.0
(CU.FEET/ACRE)	400 # N	769	172	28.8
8-YEAR CHANGE	CONTROL	0.93		
IN AVERAGE DIAMETER	200 # N	0.88	-0.05	-5.4
(INCHES)	400 # N	0.95	0.02	2.2
8-YEAR CHANGE	CONTROL	4.60		
IN HEIGHT GROWTH	200 # N	5.50	0.90	19.6
(FEET)	400 # N	5.50	0.90	19.6

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL	CON	2.3			1.5		
AREA PAI	200	2.8	0.5	21.7	0.9	-0.6	-40.0
(SQ.FT/A)	400	2.5	0.2	8.7	0.6	-0.9	-60.0
GROSS BASAL	CON	2.2			2.5		
AREA PAI	200	2.9	0.7	31.8	2.9	0.4	16.0
(SQ.FT/A)	400	2.6	0.4	18.2	3.1	0.6	24.0
		THIRD TWO YEARS			FOURTH TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL	CON	2.3			3.5		
AREA PAI	200	2.4	0.1	4.3	2.4	-1.1	-31.4
(SQ.FT/A)	400	2.1	-0.2	-8.7	-0.4	-3.9	-111.4
GROSS BASAL	CON	2.3			2.8		
AREA PAI	200	2.5	0.2	8.7	2.9	0.1	3.6
(SQ.FT/A)	400	2.7	0.4	17.4	3.4	0.6	21.4

INITIAL STAND CHARACTERISTICS:

AGE	80 YEARS
TREES PER ACRE	298 TREES/ACRE
BASAL AREA	167.7 SQ.FEET/ACRE
TOTAL VOLUME	4296 CU.FEET/ACRE
CCF	189.9
RELATIVE DENSITY INDEX	52.5
MEAN DIAMETER	10.2 INCHES
AVERAGE CROWN LENGTH	19.3 FEET
AVERAGE CROWN RATIO	30.2 PERCENT
SITE HEIGHT (40 TPA)	75.5 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	95.2 PERCENT
PONDEROSA PINE	4.8 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON INITIAL BASAL AREA OF 167.7 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	19.6		
	200 # N	9.7	-9.9	-50.5
	400 # N	10.8	-8.8	-44.9
8-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	771.0		
	200 # N	522.0	-249	-32.3
	400 # N	569.0	-202	-26.2
8-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	19		
	200 # N	14	-5	-28.1
	400 # N	19	0	0.0
8-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	740		
	200 # N	692	-48	-6.5
	400 # N	759	19	2.6
8-YEAR CHANGE IN AVERAGE DIAMETER (INCHES)	CONTROL	0.80		
	200 # N	0.62	-0.18	-22.5
	400 # N	1.04	0.24	30.0
8-YEAR CHANGE IN HEIGHT GROWTH (FEET)	CONTROL	4.30		
	200 # N	4.10	-0.20	-4.7
	400 # N	4.50	0.20	4.7

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		INC	RESPONSE		INC	RESPONSE	
			DIFF	%		DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	3.0			2.3		
	200	1.8	-1.2	-40.0	0.4	-1.9	-82.6
	400	3.0	0.0	0.0	2.2	-0.1	-4.3
GROSS BASAL AREA PAI (SQ.FT/A)	CON	2.9			2.3		
	200	2.2	-0.7	-24.1	1.5	-0.8	-34.8
	400	2.9	0.0	0.0	2.2	-0.1	-4.3
	TRT	THIRD TWO YEARS			FOURTH TWO YEARS		
		INC	RESPONSE		INC	RESPONSE	
			DIFF	%		DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	2.1			2.6		
	200	1.6	-0.5	-23.8	-2.7	-5.3	-203.8
	400	0.9	-1.2	-57.1	-0.3	-2.9	-111.5
GROSS BASAL AREA PAI (SQ.FT/A)	CON	2.1			2.3		
	200	1.4	-0.7	-33.3	1.7	-0.6	-26.1
	400	2.3	0.2	9.5	2.3	0.0	0.0

INITIAL STAND CHARACTERISTICS:

AGE	90 YEARS
TREES PER ACRE	232 TREES/ACRE
BASAL AREA	148.5 SQ.FEET/ACRE
TOTAL VOLUME	4055 CU.FEET/ACRE
CCF	160.7
RELATIVE DENSITY INDEX	44.9
MEAN DIAMETER	10.9 INCHES
AVERAGE CROWN LENGTH	24.5 FEET
AVERAGE CROWN RATIO	37.2 PERCENT
SITE HEIGHT (40 TPA)	79.7 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	97.3 PERCENT
PONDEROSA PINE	2.7 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON INITIAL BASAL AREA OF 148.5 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	18.8		
	200 # N	20.8	2.0	10.6
	400 # N	15.9	-2.9	-15.4
8-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	795.0		
	200 # N	803.0	8.0	1.0
	400 # N	631.0	-164	-20.6
8-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	23		
	200 # N	26	3	13.9
	400 # N	20	-2	-10.7
8-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	911		
	200 # N	838	-73	-8.0
	400 # N	758	-153	-16.8
8-YEAR CHANGE IN AVERAGE DIAMETER (INCHES)	CONTROL	0.71		
	200 # N	0.94	0.23	32.4
	400 # N	0.95	0.24	33.3
8-YEAR CHANGE IN HEIGHT GROWTH (FEET)	CONTROL	3.30		
	200 # N	4.70	1.40	42.4
	400 # N	4.00	0.70	21.2

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		INC	RESPONSE		INC	RESPONSE	
			DIFF	%		DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	3.1			1.8		
	200	4.5	1.4	45.2	3.9	2.1	116.7
	400	1.9	-1.2	-38.7	2.1	0.3	16.7
GROSS BASAL AREA PAI (SQ.FT/A)	CON	3.3			1.8		
	200	4.2	0.9	27.3	3.0	1.2	66.7
	400	3.3	0.0	0.0	2.1	0.3	16.7
	TRT	THIRD TWO YEARS			FOURTH TWO YEARS		
		INC	RESPONSE		INC	RESPONSE	
			DIFF	%		DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	3.2			1.0		
	200	1.2	-2.0	-62.5	4.1	3.1	310.0
	400	2.6	-0.6	-18.8	1.5	0.5	50.0
GROSS BASAL AREA PAI (SQ.FT/A)	CON	3.1			2.8		
	200	3.1	0.0	0.0	2.6	-0.2	-7.1
	400	2.5	-0.6	-19.4	2.2	-0.6	-21.4

INITIAL STAND CHARACTERISTICS:

AGE	32 YEARS
TREES PER ACRE	213 TREES/ACRE
BASAL AREA	47.9 SQ.FEET/ACRE
TOTAL VOLUME	738 CU.FEET/ACRE
CCF	62.1
RELATIVE DENSITY INDEX	18.9
MEAN DIAMETER	6.4 INCHES
AVERAGE CROWN LENGTH	25.6 FEET
AVERAGE CROWN RATIO	74.5 PERCENT
SITE HEIGHT (40 TPA)	41.1 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
JUGLANS-FIR	83.9 PERCENT
WESTERN LARCH	8.6 PERCENT
LODGEPOLE PINE	6.9 PERCENT
PONDEROSA PINE	0.6 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON INITIAL BASAL AREA OF 47.9 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	25.6		
	200 # N	30.6	5.0	19.5
	400 # N	30.8	5.2	20.3
8-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	641.0		
	200 # N	639.0	-2.0	-0.3
	400 # N	697.0	56.0	8.7
8-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	27		
	200 # N	31	4	14.0
	400 # N	30	3	12.2
8-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	666		
	200 # N	637	-29	-4.4
	400 # N	686	20	3.0
8-YEAR CHANGE IN AVERAGE DIAMETER (INCHES)	CONTROL	1.38		
	200 # N	1.91	0.53	38.4
	400 # N	2.09	0.71	51.4
6-YEAR CHANGE IN HEIGHT GROWTH (FEET)	CONTROL	8.10		
	200 # N	8.60	0.50	6.2
	400 # N	9.50	1.40	17.3

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	3.5			2.3		
	200	4.9	1.4	40.0	3.4	1.1	47.8
	400	4.6	1.1	31.4	3.5	1.2	52.2
GROSS BASAL AREA PAI (SQ.FT/A)	CON	3.6			2.3		
	200	4.8	1.2	33.3	3.3	1.0	43.5
	400	4.5	0.9	25.0	3.5	1.2	52.2
	TRT	THIRD TWO YEARS			FOURTH TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	3.4			3.4		
	200	3.4	0.0	0.0	4.2	0.8	23.5
	400	3.7	0.3	8.8	4.1	0.7	20.6
GROSS BASAL AREA PAI (SQ.FT/A)	CON	3.3			4.1		
	200	3.5	0.2	6.1	3.9	-0.2	-4.9
	400	3.6	0.3	9.1	3.7	-0.4	-9.3

INSTALLATION 239 WAHA #2
 REGION: NORTHEAST OREGON OWNERSHIP: PCTLATCH
 LEGAL DESCRIPTION: T33N R4W SECTION 10 MERIDIAN: BLISE

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INITIAL STAND CHARACTERISTICS:

AGE	87 YEARS
TREES PER ACRE	156 TREES/ACRE
BASAL AREA	188.5 SQ.FEET/ACRE
TOTAL VOLUME	6208 CU.FEET/ACRE
CCF	168.9
RELATIVE DENSITY INDEX	48.8
MEAN DIAMETER	14.9 INCHES
AVERAGE CROWN LENGTH	32.2 FEET
AVERAGE CROWN RATIO	39.8 PERCENT
SITE HEIGHT (40 TPA)	95.7 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	88.4 PERCENT
PONDEROSA PINE	11.5 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
 INITIAL BASAL AREA OF 188.5 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	32.3		
	200 # N	19.8	-12.5	-38.7
	400 # N	-14.9	-47.2	-146.1
8-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	1317		
	200 # N	1176	-141	-10.7
	400 # N	-63.0	-1330	-104.8
8-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	32		
	200 # N	29	-4	-11.7
	400 # N	21	-12	-36.7
3-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	1298		
	200 # N	1391	93	7.2
	400 # N	1418	120	9.2
8-YEAR CHANGE IN AVERAGE DIAMETER (INCHES)	CONTROL	1.98		
	200 # N	1.83	-0.15	-7.6
	400 # N	0.29	-1.69	-35.4
8-YEAR CHANGE IN HEIGHT GROWTH (FEET)	CONTROL	6.80		
	200 # N	6.80	0.00	0.0
	400 # N	6.50	-0.30	-4.4

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	3.1			5.2		
	200	4.6	1.5	48.4	4.0	-1.2	-23.1
	400	2.0	-1.1	-35.5	-3.5	-8.7	-167.3
GROSS BASAL AREA PAI (SQ.FT/A)	CON	4.8			5.2		
	200	4.4	-0.4	-8.3	4.4	-0.8	-15.4
	400	2.7	-2.1	-43.7	2.9	-2.3	-44.2
		THIRD TWO YEARS			FOURTH TWO YEARS		
NET BASAL AREA PAI (SQ.FT/A)	CON	3.4			4.9		
	200	2.7	-0.7	-20.6	0.3	-4.6	-93.9
	400	-7.4	-10.8	-317.6	-1.7	-6.6	-134.7
GROSS BASAL AREA PAI (SQ.FT/A)	CON	3.4			3.0		
	200	2.9	-0.5	-14.7	2.7	-0.3	-10.0
	400	1.7	-1.7	-50.0	2.5	-0.5	-16.7

INITIAL STAND CHARACTERISTICS:

AGE	41 YEARS
TREES PER ACRE	345 TREES/ACRE
BASAL AREA	149.7 SQ.FEET/ACRE
TOTAL VOLUME	3701 CU.FEET/ACRE
CCF	174.8
RELATIVE DENSITY INDEX	49.9
MEAN DIAMETER	8.9 INCHES
AVERAGE CROWN LENGTH	30.3 FEET
AVERAGE CROWN RATIO	50.3 PERCENT
SITE HEIGHT (40 TPA)	69.9 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	79.0 PERCENT
GRAND FIR	3.5 PERCENT
WESTERN REDCEDAR	1.9 PERCENT
WESTERN LARCH	14.7 PERCENT
WHITE PINE	1.0 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON INITIAL BASAL AREA OF 149.7 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	48.4		
	200 # N	58.8	10.4	21.5
	400 # N	56.8	3.4	17.4
8-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	2103		
	200 # N	2249	146.0	6.9
	400 # N	2289	136.0	8.8
8-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	52		
	200 # N	66	14	25.4
	400 # N	60	8	15.8
3-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	2210		
	200 # N	2319	109	4.9
	400 # N	2377	167	7.6
8-YEAR CHANGE IN AVERAGE DIAMETER (INCHES)	CONTROL	1.33		
	200 # N	2.04	0.71	53.4
	400 # N	1.59	0.26	19.5
8-YEAR CHANGE IN HEIGHT GROWTH (FEET)	CONTROL	11.40		
	200 # N	13.00	1.60	14.0
	400 # N	12.20	0.80	7.0

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	5.5			5.6		
	200	8.3	2.8	50.9	9.7	4.1	73.2
	400	7.8	2.3	41.8	6.9	1.3	23.2
GROSS BASAL AREA PAI (SQ.FT/A)	CON	5.7			5.6		
	200	8.8	3.1	54.4	8.6	3.0	53.6
	400	7.9	2.2	38.6	7.6	2.0	35.7
	TRT	THIRD TWO YEARS			FOURTH TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	7.3			5.4		
	200	7.7	0.4	5.5	7.7	2.3	42.6
	400	7.1	-0.2	-2.7	6.1	0.7	13.0
GROSS BASAL AREA PAI (SQ.FT/A)	CON	7.3			7.1		
	200	8.0	0.7	9.6	7.5	0.4	5.6
	400	7.4	0.1	1.4	7.0	-0.1	-1.4

INITIAL STAND CHARACTERISTICS:

AGE	72 YEARS
TREES PER ACRE	303 TREES/ACRE
BASAL AREA	113.7 SQ.FEET/ACRE
TOTAL VOLUME	2622 CU.FEET/ACRE
CCF	136.9
RELATIVE DENSITY INDEX	35.5
MEAN DIAMETER	8.3 INCHES
AVERAGE CROWN LENGTH	26.2 FEET
AVERAGE CROWN RATIO	47.3 PERCENT
SITE HEIGHT (40 TPA)	63.3 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	88.9 PERCENT
WESTERN LARCH	0.4 PERCENT
LODGEPOLE PINE	0.9 PERCENT
PONDEROSA PINE	9.3 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
 INITIAL BASAL AREA OF 113.7 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET	CONTROL	40.5		
BASAL AREA	200 # N	17.6	-22.9	-56.5
(SQ.FEET/ACRE)	400 # N	44.4	3.9	9.6
8-YEAR GROSS	CONTROL	1092		
BASAL AREA	200 # N	731.0	-361	-33.1
(SQ.FEET/ACRE)	400 # N	1496	404.0	37.0
8-YEAR NET	CONTROL	36		
TOTAL VOLUME	200 # N	35	-1	-3.1
(CU.FEET/ACRE)	400 # N	52	16	44.9
8-YEAR GROSS	CONTROL	971		
TOTAL VOLUME	200 # N	1234	263	27.1
(CU.FEET/ACRE)	400 # N	1688	717	73.8
8-YEAR CHANGE	CONTROL	1.53		
IN AVERAGE DIAMETER	200 # N	1.11	-0.42	-27.5
(INCHES)	400 # N	1.37	-0.16	-10.5
8-YEAR CHANGE	CONTROL	7.70		
IN HEIGHT GROWTH	200 # N	7.00	-0.70	-9.1
(FEET)	400 # N	8.30	0.60	7.8

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL	CON	5.3			5.9		
AREA PAI	200	3.8	-1.5	-28.3	3.4	-2.5	-42.4
(SQ.FT/A)	400	7.4	2.1	39.6	8.7	2.3	47.5
GROSS BASAL	CON	5.0			5.9		
AREA PAI	200	5.2	0.2	4.0	5.7	-0.2	-3.4
(SQ.FT/A)	400	7.6	2.6	52.0	8.8	2.9	49.2
		THIRD TWO YEARS			FOURTH TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL	CON	3.6			5.9		
AREA PAI	200	-0.3	-3.9	-108.3	-2.0	-7.9	-133.9
(SQ.FT/A)	400	4.4	0.8	22.2	0.8	-5.1	-86.4
GROSS BASAL	CON	3.7			3.5		
AREA PAI	200	3.1	-0.6	-16.2	3.1	-0.4	-11.4
(SQ.FT/A)	400	4.7	1.0	27.0	4.6	1.1	31.4

 INITIAL STAND CHARACTERISTICS:

AGE	87 YEARS
TREES PER ACRE	432 TREES/ACRE
BASAL AREA	138.1 SQ.FEET/ACRE
TOTAL VOLUME	3391 CU.FEET/ACRE
CCF	171.1
RELATIVE DENSITY INDEX	49.8
MEAN DIAMETER	7.7 INCHES
AVERAGE CROWN LENGTH	20.3 FEET
AVERAGE CROWN RATIO	37.5 PERCENT
SITE HEIGHT (40 TPA)	70.8 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	94.2 PERCENT
LOGPOLE PINE	5.8 PERCENT

 GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
 INITIAL BASAL AREA OF 138.1 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET	CONTROL	18.9		
BASAL AREA	200 # N	22.0	3.1	16.4
(SQ.FEET/ACRE)	400 # N	31.8	12.9	68.3
8-YEAR GROSS	CONTROL	689.0		
BASAL AREA	200 # N	735.0	46.0	6.7
(SQ.FEET/ACRE)	400 # N	984.0	295.0	42.8
8-YEAR NET	CONTROL	21		
TOTAL VOLUME	200 # N	23	2	9.8
(CU.FEET/ACRE)	400 # N	34	13	65.4
8-YEAR GROSS	CONTROL	721		
TOTAL VOLUME	200 # N	818	97	13.5
(CU.FEET/ACRE)	400 # N	1006	285	39.5
8-YEAR CHANGE	CONTROL	0.66		
IN AVERAGE DIAMETER	200 # N	0.51	-0.15	-22.7
(INCHES)	400 # N	1.26	0.60	90.9
8-YEAR CHANGE	CONTROL	3.70		
IN HEIGHT GROWTH	200 # N	3.50	-0.20	-5.4
(FEET)	400 # N	4.80	1.10	29.7

 PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		INC	RESPONSE		INC	RESPONSE	
			DIFF	%		DIFF	%
NET BASAL	CON	2.9			3.1		
AREA PAI	200	3.0	0.1	3.4	2.3	-0.8	-25.8
(SQ.FT/A)	400	5.1	2.2	75.9	5.2	2.1	67.7
GROSS BASAL	CON	2.9			3.1		
AREA PAI	200	3.3	0.4	13.8	3.4	0.3	9.7
(SQ.FT/A)	400	5.8	2.9	100.0	5.2	2.1	67.7
	TRT	THIRD TWO YEARS			FOURTH TWO YEARS		
		INC	RESPONSE		INC	RESPONSE	
			DIFF	%		DIFF	%
NET BASAL	CON	1.2			2.2		
AREA PAI	200	1.9	0.7	58.3	-0.1	-2.3	-104.5
(SQ.FT/A)	400	2.7	1.5	125.0	4.2	2.0	90.9
GROSS BASAL	CON	1.6			2.7		
AREA PAI	200	1.6	0.0	0.0	2.7	0.0	0.0
(SQ.FT/A)	400	3.0	1.4	87.5	3.2	0.5	18.5

INITIAL STAND CHARACTERISTICS:

AGE	73 YEARS
TREES PER ACRE	240 TREES/ACRE
BASAL AREA	130.4 SQ.FEET/ACRE
TOTAL VOLUME	3350 CU.FEET/ACRE
CCF	150.0
RELATIVE DENSITY INDEX	41.2
MEAN DIAMETER	10.0 INCHES
AVERAGE CROWN LENGTH	23.2 FEET
AVERAGE CROWN RATIO	36.3 PERCENT
SITE HEIGHT (40 TPA)	73.6 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	92.7 PERCENT
WESTERN LARCH	6.1 PERCENT
PONDEROSA PINE	1.1 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
 INITIAL BASAL AREA OF 130.4 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET	CONTROL	17.6		
BASAL AREA	200 # N	26.7	9.1	51.7
(SQ.FEET/ACRE)	400 # N	14.1	-3.5	-19.9
8-YEAR GROSS	CONTROL	779.0		
BASAL AREA	200 # N	1079	300.0	38.5
(SQ.FEET/ACRE)	400 # N	751.0	-28.0	-3.6
8-YEAR NET	CONTROL	27		
TOTAL VOLUME	200 # N	30	4	13.2
(CU.FEET/ACRE)	400 # N	26	-0	-1.1
8-YEAR GROSS	CONTROL	1017		
TOTAL VOLUME	200 # N	1147	130	12.8
(CU.FEET/ACRE)	400 # N	1095	78	7.7
8-YEAR CHANGE	CONTROL	1.16		
IN AVERAGE DIAMETER	200 # N	1.26	0.10	9.6
(INCHES)	400 # N	1.04	-0.12	-10.3
8-YEAR CHANGE	CONTROL	7.40		
IN HEIGHT GROWTH	200 # N	8.10	0.70	9.5
(FEET)	400 # N	7.50	0.10	1.4

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL	CON	4.3			0.9		
AREA PAI	200	3.9	-0.4	-9.3	4.3	3.9	433.3
(SQ.FT/A)	400	3.7	-0.6	-14.0	2.0	1.1	122.2
GROSS BASAL	CON	4.2			3.9		
AREA PAI	200	4.5	0.3	7.1	4.6	0.7	17.9
(SQ.FT/A)	400	3.9	-0.3	-7.1	4.1	0.2	5.1
		THIRD TWO YEARS			FOURTH TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL	CON	0.9			2.9		
AREA PAI	200	3.5	2.6	288.9	1.9	-1.0	-34.5
(SQ.FT/A)	400	2.5	1.6	177.8	-2.2	-5.1	-175.9
GROSS BASAL	CON	3.1			2.2		
AREA PAI	200	3.5	0.4	12.9	2.5	0.3	13.6
(SQ.FT/A)	400	3.0	-0.1	-3.2	2.1	-0.1	-4.5

INSTALLATION 244 BIG LOOKCUT MTN #1
 REGION: NORTHEAST OREGON OWNERSHIP: BLM (OREGON)
 LEGAL DESCRIPTION: T11S R45E SECTION 19 MERIDIAN: WILLAMETTE

INITIAL STAND CHARACTERISTICS:

AGE	90 YEARS
TREES PER ACRE	207 TREES/ACRE
BASAL AREA	272.2 SQ.FEET/ACRE
TOTAL VOLUME	8320 CU.FEET/ACRE
CCF	248.3
RELATIVE DENSITY INDEX	68.6
MEAN DIAMETER	16.1 INCHES
AVERAGE CROWN LENGTH	31.8 FEET
AVERAGE CROWN RATIO	40.0 PERCENT
SITE HEIGHT (40 TPA)	93.8 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	100.0 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
 INITIAL BASAL AREA OF 272.2 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET	CONTROL	30.8		
BASAL AREA	200 # N	20.6	-10.2	-33.1
(SQ.FEET/ACRE)	400 # N	20.6	-10.2	-33.1
8-YEAR GROSS	CONTROL	1572		
BASAL AREA	200 # N	1265	-307	-19.5
(SQ.FEET/ACRE)	400 # N	1332	-240	-15.3
8-YEAR NET	CONTROL	27		
TOTAL VOLUME	200 # N	21	-6	-21.8
(CU.FEET/ACRE)	400 # N	22	-5	-16.9
3-YEAR GROSS	CONTROL	1414		
TOTAL VOLUME	200 # N	1358	-56	-4.0
(CU.FEET/ACRE)	400 # N	1386	-28	-2.0
8-YEAR CHANGE	CONTROL	0.81		
IN AVERAGE DIAMETER	200 # N	0.69	-0.12	-14.8
(INCHES)	400 # N	0.72	-0.09	-11.1
8-YEAR CHANGE	CONTROL	6.10		
IN HEIGHT GROWTH	200 # N	5.90	-0.20	-3.3
(FEET)	400 # N	5.90	-0.20	-3.3

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL	CON	3.7			4.3		
AREA PAI	200	2.0	-1.7	-45.9	2.0	-2.3	-53.5
(SQ.FT/A)	400	2.4	-1.3	-35.1	3.4	-0.9	-20.9
GROSS BASAL	CON	3.4			4.4		
AREA PAI	200	2.3	-1.1	-32.4	3.2	-1.2	-27.3
(SQ.FT/A)	400	2.5	-0.9	-26.5	3.4	-1.0	-22.7
	TRT	THIRD TWO YEARS			FOURTH TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL	CON	3.3			4.5		
AREA PAI	200	2.9	-0.4	-12.1	-0.6	-5.1	-113.3
(SQ.FT/A)	400	2.6	-0.7	-21.2	1.5	-3.0	-66.7
GROSS BASAL	CON	3.3			2.4		
AREA PAI	200	2.6	-0.7	-21.2	2.1	-0.3	-12.5
(SQ.FT/A)	400	2.9	-0.4	-12.1	2.2	-0.2	-3.3

INITIAL STAND CHARACTERISTICS:

AGE	52 YEARS
TREES PER ACRE	252 TREES/ACRE
BASAL AREA	191.7 SQ.FEET/ACRE
TOTAL VOLUME	3788 CU.FEET/ACRE
CCF	195.8
RELATIVE DENSITY INDEX	55.1
MEAN DIAMETER	12.2 INCHES
AVERAGE CROWN LENGTH	23.3 FEET
AVERAGE CROWN RATIO	45.5 PERCENT
SITE HEIGHT (40 TPA)	58.8 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	100.0 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON INITIAL BASAL AREA OF 191.7 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	23.6		
	200 # N	12.1	-11.5	-48.7
	400 # N	-4.1	-27.7	-117.4
8-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	842.0		
	200 # N	684.0	-158	-18.8
	400 # N	419.0	-423	-50.2
8-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	28		
	200 # N	27	-1	-4.6
	400 # N	21	-7	-26.3
8-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	177		
	200 # N	947	170	21.9
	400 # N	1076	299	38.5
8-YEAR CHANGE IN AVERAGE DIAMETER (INCHES)	CONTROL	1.82		
	200 # N	1.22	-0.60	-33.0
	400 # N	0.63	-1.19	-65.4
8-YEAR CHANGE IN HEIGHT GROWTH (FEET)	CONTROL	5.70		
	200 # N	5.40	-0.30	-5.3
	400 # N	6.70	1.00	17.5

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	4.8			2.2		
	200	4.2	-0.6	-12.5	0.9	-1.3	-59.1
	400	1.1	-3.7	-77.1	3.2	1.0	45.5
GROSS BASAL AREA PAI (SQ.FT/A)	CON	4.2			5.3		
	200	4.2	0.0	0.0	4.2	-1.1	-20.8
	400	2.0	-2.2	-52.4	3.2	-2.1	-39.6
	TRT	THIRD TWO YEARS			FOURTH TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	1.5			4.3		
	200	2.0	0.5	33.3	-0.8	-5.1	-118.6
	400	-0.3	-1.8	-120.0	-10.3	-14.6	-339.5
GROSS BASAL AREA PAI (SQ.FT/A)	CON	3.0			2.0		
	200	2.8	-0.2	-6.7	2.1	0.1	5.0
	400	2.9	-0.1	-3.3	1.7	-0.3	-15.0

INITIAL STAND CHARACTERISTICS:

AGE	34 YEARS
TREES PER ACRE	347 TREES/ACRE
BASAL AREA	99.7 SQ.FEET/ACRE
TOTAL VOLUME	2111 CU.FEET/ACRE
CCF	126.8
RELATIVE DENSITY INDEX	36.9
MEAN DIAMETER	7.4 INCHES
AVERAGE CROWN LENGTH	23.0 FEET
AVERAGE CROWN RATIO	46.7 PERCENT
SITE HEIGHT (40 TPA)	58.2 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	95.6 PERCENT
PUNDEROSA PINE	4.4 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
 INITIAL BASAL AREA OF 99.7 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL 200 # N 400 # N	23.8 23.8 18.2	0.0 0.0 -5.6	0.0 0.0 -23.5
8-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL 200 # N 400 # N	955.0 970.0 735.0	15.0 15.0 -220	1.6 1.6 -23.0
8-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL 200 # N 400 # N	27 33 33	6 6 6	23.7 23.7 24.1
8-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL 200 # N 400 # N	1003 1141 1080	138 138 77	13.8 13.8 7.7
8-YEAR CHANGE IN AVERAGE DIAMETER (INCHES)	CONTROL 200 # N 400 # N	1.29 1.91 1.12	0.62 0.62 -0.17	48.1 48.1 -13.2
8-YEAR CHANGE IN HEIGHT GROWTH (FEET)	CONTROL 200 # N 400 # N	9.10 10.90 8.80	1.80 1.80 -0.30	19.8 19.8 -3.3

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON 200 400	4.8 6.5 6.3			3.3 4.6 4.0		
			1.7 1.5	35.4 31.3		1.3 0.7	39.4 21.2
GROSS BASAL AREA PAI (SQ.FT/A)	CON 200 400	4.8 6.4 6.5			3.3 4.2 4.4		
			1.6 1.7	33.3 35.4		0.9 1.1	27.3 33.3
		THIRD TWO YEARS			FOURTH TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON 200 400	1.6 1.0 -3.8			2.1 1.3 1.8		
			-0.6 -5.4	-37.5 -337.5		-0.8 -0.3	-38.1 -14.3
GROSS BASAL AREA PAI (SQ.FT/A)	CON 200 400	2.2 2.5 1.9			3.0 3.5 3.6		
			0.3 -0.3	13.6 -13.6		0.5 0.6	16.7 20.0

INITIAL STAND CHARACTERISTICS:

AGE	76 YEARS
TREES PER ACRE	213 TREES/ACRE
BASAL AREA	137.4 SQ.FEET/ACRE
TOTAL VOLUME	3794 CU.FEET/ACRE
CCF	149.5
RELATIVE DENSITY INDEX	41.7
MEAN DIAMETER	10.9 INCHES
AVERAGE CROWN LENGTH	30.4 FEET
AVERAGE CROWN RATIO	42.8 PERCENT
SITE HEIGHT (40 TPA)	79.5 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	86.2 PERCENT
WESTERN LARCH	8.6 PERCENT
LODGEPOLE PINE	1.6 PERCENT
PONDEROSA PINE	3.6 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON INITIAL BASAL AREA OF 137.4 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	28.3		
	200 # N	26.2	-2.1	-7.4
	400 # N	9.0	-19.3	-68.2
8-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	1028		
	200 # N	1080	52.0	5.1
	400 # N	737.0	-291	-28.3
8-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	28		
	200 # N	32	4	15.7
	400 # N	26	-3	-3.9
8-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	1002		
	200 # N	1226	224	22.4
	400 # N	1203	201	20.1
8-YEAR CHANGE IN AVERAGE DIAMETER (INCHES)	CONTROL	1.37		
	200 # N	1.40	0.03	2.2
	400 # N	0.84	-0.53	-38.7
8-YEAR CHANGE IN HEIGHT GROWTH (FEET)	CONTROL	6.70		
	200 # N	7.60	0.90	13.4
	400 # N	6.60	-0.10	-1.5

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	5.1			3.3		
	200	6.2	1.1	21.6	1.4	-1.9	-57.6
	400	4.1	-1.0	-19.6	-1.9	-5.2	-157.6
GROSS BASAL AREA PAI (SQ.FT/A)	CON	4.9			3.9		
	200	6.1	1.2	24.5	4.2	0.3	7.7
	400	4.5	-0.4	-8.2	3.1	-0.8	-20.5
	TRT	THIRD TWO YEARS			FOURTH TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	2.3			3.8		
	200	2.6	0.3	13.0	3.7	-0.1	-2.6
	400	-0.2	-2.5	-108.7	0.6	-3.2	-84.2
GROSS BASAL AREA PAI (SQ.FT/A)	CON	2.4			3.1		
	200	2.6	0.2	8.3	3.3	0.2	6.5
	400	1.9	-0.5	-20.9	3.0	-0.1	-3.2

INITIAL STAND CHARACTERISTICS:

AGE	64 YEARS
TREES PER ACRE	190 TREES/ACRE
BASAL AREA	114.7 SQ.FEET/ACRE
TOTAL VOLUME	2831 CU.FEET/ACRE
CCF	129.6
RELATIVE DENSITY INDEX	35.3
MEAN DIAMETER	10.5 INCHES
AVERAGE CROWN LENGTH	32.6 FEET
AVERAGE CROWN RATIO	53.5 PERCENT
SITE HEIGHT (40 TPA)	71.9 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	94.0 PERCENT
PONDEROSA PINE	6.0 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON INITIAL BASAL AREA OF 114.7 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	45.1		
	200 # N	49.6	4.5	10.0
	400 # N	41.9	-3.2	-7.1
8-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	1576		
	200 # N	1666	90.0	5.7
	400 # N	1479	-97.0	-6.2
8-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	46		
	200 # N	50	5	9.8
	400 # N	43	-3	-7.0
8-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	1592		
	200 # N	1658	66	4.1
	400 # N	1501	-91	-5.7
8-YEAR CHANGE IN AVERAGE DIAMETER (INCHES)	CONTROL	1.96		
	200 # N	2.16	0.20	10.2
	400 # N	1.69	-0.27	-13.8
8-YEAR CHANGE IN HEIGHT GROWTH (FEET)	CONTROL	9.20		
	200 # N	9.80	0.60	6.5
	400 # N	9.20	0.00	0.0

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	6.8			5.4		
	200	8.4	1.6	23.5	6.8	1.4	25.9
	400	7.3	0.5	7.4	5.1	-0.3	-5.6
GROSS BASAL AREA PAI (SQ.FT/A)	CON	6.9			5.4		
	200	8.3	1.4	20.3	6.5	1.1	20.4
	400	7.4	0.5	7.2	5.1	-0.3	-5.6
	TRT	THIRD TWO YEARS			FOURTH TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	5.7			4.6		
	200	5.9	0.2	3.5	4.8	0.2	4.3
	400	4.6	-1.1	-19.3	3.7	-0.9	-19.6
GROSS BASAL AREA PAI (SQ.FT/A)	CON	5.6			4.9		
	200	6.0	0.4	7.1	4.3	-0.6	-12.2
	400	4.7	-0.9	-16.1	4.1	-0.8	-16.3

INITIAL STAND CHARACTERISTICS:

AGE	77 YEARS
TREES PER ACRE	202 TREES/ACRE
BASAL AREA	172.3 SQ.FEET/ACRE
TOTAL VOLUME	557.3 CU.FEET/ACRE
CCF	174.3
RELATIVE DENSITY INDEX	48.5
MEAN DIAMETER	12.7 INCHES
AVERAGE CROWN LENGTH	35.8 FEET
AVERAGE CROWN RATIO	44.0 PERCENT
SITE HEIGHT (40 TPA)	93.8 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	98.4 PERCENT
PONDEROSA PINE	1.6 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON INITIAL BASAL AREA OF 172.3 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	37.5		
	200 # N	41.1	3.6	9.6
	400 # N	44.7	7.2	19.2
8-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	1621		
	200 # N	1800	179.0	11.0
	400 # N	1849	228.0	14.1
8-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	38		
	200 # N	42	3	3.3
	400 # N	44	5	14.1
8-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	1642		
	200 # N	1869	227	13.8
	400 # N	1804	162	9.9
8-YEAR CHANGE IN AVERAGE DIAMETER (INCHES)	CONTROL	1.60		
	200 # N	1.51	-0.09	-5.6
	400 # N	1.98	0.38	23.8
8-YEAR CHANGE IN HEIGHT GROWTH (FEET)	CONTROL	5.60		
	200 # N	6.60	1.00	17.9
	400 # N	6.80	1.20	21.4

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	5.6			4.4		
	200	6.6	1.0	17.9	4.3	-0.1	-2.3
	400	7.5	1.9	33.9	5.8	1.4	31.8
GROSS BASAL AREA PAI (SQ.FT/A)	CON	5.6			4.6		
	200	6.8	1.2	21.4	5.2	0.6	13.0
	400	7.3	1.7	30.4	5.8	1.2	26.1
	TRT	THIRD TWO YEARS			FOURTH TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	5.0			3.3		
	200	5.2	0.2	4.0	1.6	-2.2	-57.9
	400	5.6	0.6	12.0	4.4	0.6	15.8
GROSS BASAL AREA PAI (SQ.FT/A)	CON	5.0			4.1		
	200	5.0	0.0	0.0	3.7	-0.4	-9.3
	400	5.5	0.5	10.0	3.5	-0.6	-14.6

INITIAL STAND CHARACTERISTICS:

AGE	38 YEARS
TREES PER ACRE	340 TREES/ACRE
BASAL AREA	114.3 SQ.FEET/ACRE
TOTAL VOLUME	2254 CU.FEET/ACRE
CCF	144.7
RELATIVE DENSITY INDEX	40.7
MEAN DIAMETER	7.9 INCHES
AVERAGE CROWN LENGTH	29.6 FEET
AVERAGE CROWN RATIO	65.8 PERCENT
SITE HEIGHT (40 TPA)	58.2 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	93.5 PERCENT
GRAND FIR	3.1 PERCENT
WESTERN REDCEDAR	2.4 PERCENT
WHITE PINE	1.0 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
 INITIAL BASAL AREA OF 114.3 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	55.8		
	200 # N	74.7	18.9	33.9
	400 # N	87.5	31.7	56.8
8-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	1648		
	200 # N	2065	217.0	11.7
	400 # N	2576	728.0	33.4
6-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	63		
	200 # N	78	15	23.7
	400 # N	92	23	44.3
8-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	2019		
	200 # N	2057	38	1.9
	400 # N	2670	651	32.2
8-YEAR CHANGE IN AVERAGE DIAMETER (INCHES)	CONTROL	2.06		
	200 # N	2.78	0.72	35.0
	400 # N	2.76	0.70	34.0
8-YEAR CHANGE IN HEIGHT GROWTH (FEET)	CONTROL	11.20		
	200 # N	12.40	1.20	10.7
	400 # N	12.70	1.50	13.4

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	8.2			6.8		
	200	11.2	3.0	36.6	10.6	3.8	55.9
	400	13.2	5.0	61.0	10.7	3.9	57.4
GROSS BASAL AREA PAI (SQ.FT/A)	CON	8.3			7.3		
	200	10.9	2.6	31.3	9.4	2.1	28.8
	400	13.4	5.1	61.4	11.6	4.3	53.9
		THIRD TWO YEARS			FOURTH TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	6.1			6.6		
	200	8.1	2.0	32.8	11.6	5.0	75.9
	400	9.9	3.8	62.3	8.9	2.3	34.8
GROSS BASAL AREA PAI (SQ.FT/A)	CON	7.8			9.2		
	200	8.5	0.7	9.0	10.5	2.3	28.0
	400	10.3	2.5	32.1	10.3	2.1	25.0

INITIAL STAND CHARACTERISTICS:

AGE	60 YEARS
TREES PER ACRE	393 TREES/ACRE
BASAL AREA	151.0 SQ.FEET/ACRE
TOTAL VOLUME	3287 CU.FEET/ACRE
CCF	180.9
RELATIVE DENSITY INDEX	52.0
MEAN DIAMETER	8.6 INCHES
AVERAGE CROWN LENGTH	22.5 FEET
AVERAGE CROWN RATIO	43.7 PERCENT
SITE HEIGHT (40 TPA)	63.6 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	92.5 PERCENT
WESTERN LARCH	4.1 PERCENT
LODGEPOLE PINE	1.4 PERCENT
PONDEROSA PINE	2.1 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON INITIAL BASAL AREA OF 151.0 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	13.7		
	200 # N	19.8	1.1	5.9
	400 # N	16.2	-2.5	-13.4
8-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	659.0		
	200 # N	738.0	79.0	12.0
	400 # N	623.0	-36.0	-5.5
8-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	18		
	200 # N	21	3	16.9
	400 # N	18	0	0.5
8-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	652		
	200 # N	746	94	14.4
	400 # N	697	45	6.9
8-YEAR CHANGE IN AVERAGE DIAMETER (INCHES)	CONTROL	0.54		
	200 # N	0.60	0.06	11.1
	400 # N	0.37	-0.17	-31.5
8-YEAR CHANGE IN HEIGHT GROWTH (FEET)	CONTROL	4.30		
	200 # N	4.70	0.40	9.3
	400 # N	4.10	-0.20	-4.7

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	2.3			2.2		
	200	3.2	0.9	39.1	2.8	0.6	27.3
	400	2.4	0.1	4.3	2.2	0.0	0.0
GROSS BASAL AREA PAI (SQ.FT/A)	CON	2.3			2.2		
	200	3.1	0.8	34.8	2.5	0.3	13.6
	400	2.5	0.2	8.7	2.2	0.0	0.0
	TRT	THIRD TWO YEARS			FOURTH TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	1.5			3.4		
	200	1.2	-0.3	-20.0	3.8	0.4	11.8
	400	1.1	-0.4	-26.7	1.6	-1.3	-52.9
GROSS BASAL AREA PAI (SQ.FT/A)	CON	1.5			3.2		
	200	1.9	0.3	20.0	3.4	0.2	6.2
	400	1.5	0.0	0.0	2.9	-0.3	-9.4

INITIAL STAND CHARACTERISTICS:

AGE	89 YEARS
TREES PER ACRE	407 TREES/ACRE
BASAL AREA	144.0 SQ.FEET/ACRE
TOTAL VOLUME	3095 CU.FEET/ACRE
CCF	172.0
RELATIVE DENSITY INDEX	50.7
MEAN DIAMETER	8.1 INCHES
AVERAGE CROWN LENGTH	22.3 FEET
AVERAGE CROWN RATIO	47.7 PERCENT
SITE HEIGHT (40 TPA)	60.5 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	81.5 PERCENT
WESTERN LARCH	2.6 PERCENT
LUDGECLE PINE	10.6 PERCENT
PONDEROSA PINE	5.2 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON INITIAL BASAL AREA OF 144.0 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET	CONTROL	15.1		
BASAL AREA	200 # N	19.4	4.3	28.5
(SQ.FEET/ACRE)	400 # N	15.4	0.3	2.0
8-YEAR GROSS	CONTROL	608.0		
BASAL AREA	200 # N	604.0	-4.0	-0.7
(SQ.FEET/ACRE)	400 # N	645.0	37.0	6.1
8-YEAR NET	CONTROL	18		
TOTAL VOLUME	200 # N	26	8	45.6
(CU.FEET/ACRE)	400 # N	21	3	18.9
8-YEAR GROSS	CONTROL	695		
TOTAL VOLUME	200 # N	717	18	2.6
(CU.FEET/ACRE)	400 # N	855	156	22.3
8-YEAR CHANGE	CONTROL	0.46		
IN AVERAGE DIAMETER	200 # N	0.76	0.30	65.2
(INCHES)	400 # N	0.52	0.06	13.0
8-YEAR CHANGE	CONTROL	4.20		
IN HEIGHT GROWTH	200 # N	5.10	0.90	21.4
(FEET)	400 # N	5.40	1.20	28.6

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL	CON	2.5			2.0		
AREA PAI	200	4.9	2.4	96.0	4.8	2.8	140.0
(SQ.FT/A)	400	3.0	0.5	20.0	3.0	1.0	50.0
GROSS BASAL	CON	2.6			2.0		
AREA PAI	200	4.6	2.0	76.9	3.7	1.7	85.0
(SQ.FT/A)	400	3.2	0.6	23.1	3.0	1.0	50.0
	TRT	THIRD TWO YEARS			FOURTH TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL	CON	1.4			1.5		
AREA PAI	200	2.0	0.6	42.9	1.8	0.3	20.0
(SQ.FT/A)	400	1.6	0.2	14.3	-0.6	-2.1	-140.0
GROSS BASAL	CON	1.4			2.9		
AREA PAI	200	2.3	0.9	64.3	2.7	-0.2	-6.9
(SQ.FT/A)	400	2.0	0.6	42.9	2.5	-0.4	-13.3

INITIAL STAND CHARACTERISTICS:

AGE	53 YEARS
TREES PER ACRE	247 TREES/ACRE
BASAL AREA	203.2 SQ.FEET/ACRE
TOTAL VOLUME	7092 CU.FEET/ACRE
CCF	217.7
RELATIVE DENSITY INDEX	57.8
MEAN DIAMETER	12.4 INCHES
AVERAGE CROWN LENGTH	35.8 FEET
AVERAGE CROWN RATIO	47.2 PERCENT
SITE HEIGHT (40 TPA)	101.3 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	70.6 PERCENT
GRAND FIR	23.3 PERCENT
WESTERN REDCEDAR	5.8 PERCENT
WHITE PINE	0.3 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
 INITIAL BASAL AREA OF 203.2 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET	CONTROL	32.4		
BASAL AREA	200 # N	43.4	11.0	34.0
(SQ.FEET/ACRE)	400 # N	52.5	20.1	62.0
8-YEAR GROSS	CONTROL	2218		
BASAL AREA	200 # N	2492	274.0	12.4
(SQ.FEET/ACRE)	400 # N	2831	613.0	27.6
8-YEAR NET	CONTROL	38		
TOTAL VOLUME	200 # N	44	6	16.5
(CU.FEET/ACRE)	400 # N	59	22	58.0
8-YEAR GROSS	CONTROL	2387		
TOTAL VOLUME	200 # N	2433	96	4.0
(CU.FEET/ACRE)	400 # N	3049	662	27.7
8-YEAR CHANGE	CONTROL	1.41		
IN AVERAGE DIAMETER	200 # N	1.29	-0.12	-8.5
(INCHES)	400 # N	1.75	0.34	24.1
8-YEAR CHANGE	CONTROL	9.70		
IN HEIGHT GROWTH	200 # N	10.40	0.70	7.2
(FEET)	400 # N	11.10	1.40	14.4

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL	CON	5.1			4.4		
AREA PAI	200	6.4	1.3	25.5	5.8	1.4	31.9
(SQ.FT/A)	400	8.0	2.9	56.9	5.0	0.6	13.6
GROSS BASAL	CON	5.2			4.4		
AREA PAI	200	6.4	1.2	23.1	5.6	1.2	27.3
(SQ.FT/A)	400	7.9	2.7	51.9	7.5	3.1	70.5
	TRT	THIRD TWO YEARS			FOURTH TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL	CON	2.8			3.7		
AREA PAI	200	5.2	2.4	85.7	5.1	1.4	37.3
(SQ.FT/A)	400	7.4	4.6	164.3	6.3	2.6	70.3
GROSS BASAL	CON	4.5			4.6		
AREA PAI	200	5.2	0.7	15.6	4.7	0.1	2.2
(SQ.FT/A)	400	7.2	2.7	60.0	7.2	2.6	56.5

INITIAL STAND CHARACTERISTICS:

AGE	27 YEARS
TREES PER ACRE	460 TREES/ACRE
BASAL AREA	92.2 SQ.FEET/ACRE
TOTAL VOLUME	1625 CU.FEET/ACRE
CCF	129.4
RELATIVE DENSITY INDEX	37.3
MEAN DIAMETER	6.1 INCHES
AVERAGE CROWN LENGTH	25.8 FEET
AVERAGE CROWN RATIO	67.2 PERCENT
SITE HEIGHT (40 TPA)	48.6 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	72.0 PERCENT
GRAND FIR	15.8 PERCENT
WESTERN REDCEDAR	9.4 PERCENT
WESTERN LARCH	2.7 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
 INITIAL BASAL AREA OF 92.2 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	62.9		
	200 # N	72.6	9.7	15.4
	400 # N	83.1	20.2	32.1
8-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	1658		
	200 # N	2225	567.0	34.2
	400 # N	2229	571.0	34.4
8-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	61		
	200 # N	73	12	19.6
	400 # N	85	24	38.7
8-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	1622		
	200 # N	2286	664	40.9
	400 # N	2250	628	38.7
8-YEAR CHANGE IN AVERAGE DIAMETER (INCHES)	CONTROL	1.88		
	200 # N	1.96	0.08	4.3
	400 # N	2.66	0.78	41.5
8-YEAR CHANGE IN HEIGHT GROWTH (FEET)	CONTROL	12.30		
	200 # N	13.90	1.60	13.0
	400 # N	14.70	2.40	19.5

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	8.9			7.4		
	200	11.2	2.3	25.6	8.4	1.0	13.5
	400	10.8	1.9	21.3	10.8	3.4	45.9
GROSS BASAL AREA PAI (SQ.FT/A)	CON	8.8			7.4		
	200	11.5	2.7	30.7	9.2	1.8	24.3
	400	11.5	2.7	30.7	10.8	3.4	45.9
	TRT	THIRD TWO YEARS			FOURTH TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	7.2			8.2		
	200	6.7	-0.5	-6.9	7.2	-1.0	-12.2
	400	9.7	2.5	34.7	10.6	2.4	29.3
GROSS BASAL AREA PAI (SQ.FT/A)	CON	7.2			7.4		
	200	7.5	0.3	4.2	8.4	1.0	13.5
	400	9.9	2.7	37.5	10.4	3.0	40.5

INITIAL STAND CHARACTERISTICS:

AGE	34 YEARS
TREES PER ACRE	702 TREES/ACRE
BASAL AREA	176.9 SQ.FEET/ACRE
TOTAL VOLUME	3623 CU.FEET/ACRE
CCF	229.0
RELATIVE DENSITY INDEX	67.8
MEAN DIAMETER	6.8 INCHES
AVERAGE CROWN LENGTH	19.3 FEET
AVERAGE CROWN RATIO	41.0 PERCENT
SITE HEIGHT (40 TPA)	57.4 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	88.7 PERCENT
GRAND FIR	2.7 PERCENT
WESTERN LARCH	5.1 PERCENT
LUGDEPULE PINE	0.8 PERCENT
PONDEROSA PINE	2.8 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
 INITIAL BASAL AREA OF 176.9 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL 200 # N 400 # N	50.1 40.4 62.2		
			-9.7 12.1	-19.4 24.2
8-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL 200 # N 400 # N	1852 1560 2208		
			-292 356.0	-15.8 19.2
8-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL 200 # N 400 # N	68 69 71		
			2 3	2.4 4.9
8-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL 200 # N 400 # N	2234 2128 2354		
			-106 120	-4.7 5.4
8-YEAR CHANGE IN AVERAGE DIAMETER (INCHES)	CONTROL 200 # N 400 # N	1.53 1.71 1.83		
			0.18 0.30	11.8 19.6
8-YEAR CHANGE IN HEIGHT GROWTH (FEET)	CONTROL 200 # N 400 # N	8.70 8.90 10.20		
			0.20 1.50	2.3 17.2

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		INC	RESPONSE		INC	RESPONSE	
			DIFF	%		DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON 200 400	8.7 9.5 9.9			3.8 1.2 7.2		
			0.8 1.2	9.2 13.8	-2.6 3.4	-63.4 89.5	
GROSS BASAL AREA PAI (SQ.FT/A)	CON 200 400	8.8 10.1 10.1			8.4 8.9 9.3		
			1.3 1.3	14.8 14.8	0.5 0.9	6.0 10.7	
	TRT	THIRD TWO YEARS			FOURTH TWO YEARS		
		INC	RESPONSE		INC	RESPONSE	
			DIFF	%		DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON 200 400	4.8 1.4 6.3			7.6 8.6 3.1		
			-3.4 1.5	-70.8 31.3	1.0 0.5	13.2 6.6	
GROSS BASAL AREA PAI (SQ.FT/A)	CON 200 400	7.5 6.7 7.2			9.2 9.0 9.1		
			-0.8 -0.3	-10.7 -4.0	-0.2 -0.1	-2.2 -1.1	

INITIAL STAND CHARACTERISTICS:

AGE	36 YEARS
TREES PER ACRE	568 TREES/ACRE
BASAL AREA	173.5 SQ.FEET/ACRE
TOTAL VOLUME	4282 CU.FEET/ACRE
CCF	217.9
RELATIVE DENSITY INDEX	63.4
MEAN DIAMETER	7.5 INCHES
AVERAGE CROWN LENGTH	21.9 FEET
AVERAGE CROWN RATIO	43.2 PERCENT
SITE HEIGHT (40 TPA)	73.3 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	60.1 PERCENT
GRAND FIR	21.3 PERCENT
WESTERN REDCEDAR	2.1 PERCENT
WESTERN LARCH	5.5 PERCENT
LODGEPOLE PINE	11.0 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
 INITIAL BASAL AREA OF 173.5 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	43.4		
	200 # N	43.4	0.0	0.0
	400 # N	28.9	-14.5	-33.4
8-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	2136		
	200 # N	2244	108.0	5.1
	400 # N	1843	-293	-13.7
8-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	53		
	200 # N	60	7	13.1
	400 # N	58	5	10.8
8-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	2354		
	200 # N	2448	94	4.0
	400 # N	2448	94	4.0
8-YEAR CHANGE IN AVERAGE DIAMETER (INCHES)	CONTROL	1.45		
	200 # N	2.31	0.86	59.3
	400 # N	1.92	0.47	32.4
8-YEAR CHANGE IN HEIGHT GROWTH (FEET)	CONTROL	8.00		
	200 # N	11.90	3.90	43.7
	400 # N	9.70	1.70	21.2

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	6.2			4.4		
	200	8.1	1.9	30.6	3.9	-0.5	-11.4
	400	7.2	1.0	16.1	-6.4	-10.8	-245.5
GROSS BASAL AREA PAI (SQ.FT/A)	CON	6.4			5.6		
	200	8.5	2.1	32.8	7.0	1.4	25.0
	400	7.7	1.3	20.3	6.7	1.1	19.6
		THIRD TWO YEARS			FOURTH TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	6.7			4.0		
	200	6.6	-0.1	-1.5	8.9	4.9	122.5
	400	5.3	-1.4	-20.9	7.2	3.2	80.0
GROSS BASAL AREA PAI (SQ.FT/A)	CON	7.2			6.9		
	200	7.5	0.3	4.2	7.1	0.2	2.9
	400	7.5	0.3	4.2	7.2	0.3	4.3

INITIAL STAND CHARACTERISTICS:

AGE	87 YEARS
TREES PER ACRE	154 TREES/ACRE
BASAL AREA	176.5 SQ.FEET/ACRE
TOTAL VOLUME	4893 CU.FEET/ACRE
CCF	163.1
RELATIVE DENSITY INDEX	46.1
MEAN DIAMETER	14.7 INCHES
AVERAGE CROWN LENGTH	44.1 FEET
AVERAGE CROWN RATIO	63.8 PERCENT
SITE HEIGHT (40 TPA)	82.8 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	92.9 PERCENT
GRAND FIR	1.4 PERCENT
PONDEROSA PINE	5.7 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON INITIAL BASAL AREA OF 176.5 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	30.2		
	200 # N	2.7	-27.5	-91.1
	400 # N	26.6	-3.6	-11.9
6-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	894.0		
	200 # N	144.0	-750	-83.9
	400 # N	760.0	-134	-15.0
8-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	27		
	200 # N	23	-3	-12.8
	400 # N	27	0	0.4
8-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	780		
	200 # N	881	101	12.9
	400 # N	765	-15	-1.9
8-YEAR CHANGE IN AVERAGE DIAMETER (INCHES)	CONTROL	1.47		
	200 # N	1.35	-0.12	-8.2
	400 # N	0.98	-0.49	-33.3
8-YEAR CHANGE IN HEIGHT GROWTH (FEET)	CONTROL	2.80		
	200 # N	2.20	-0.60	-21.4
	400 # N	1.50	-1.30	-46.4

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS				SECOND TWO YEARS			
		RESPONSE				RESPONSE			
		INC	DIFF	%		INC	DIFF	%	
NET BASAL AREA PAI (SQ.FT/A)	CON	5.6				4.3			
	200	4.5	-1.1	-19.6		0.3	-4.0	-93.0	
	400	6.3	0.7	12.5		3.3	-1.0	-23.3	
GROSS BASAL AREA PAI (SQ.FT/A)	CON	5.3				4.3			
	200	5.1	-0.2	-3.9		2.3	-2.0	-46.5	
	400	6.3	1.0	18.9		3.3	-1.0	-23.3	
	TRT	THIRD TWO YEARS				FOURTH TWO YEARS			
		RESPONSE				RESPONSE			
		INC	DIFF	%		INC	DIFF	%	
NET BASAL AREA PAI (SQ.FT/A)	CON	2.0				3.7			
	200	-7.9	-9.9	-495.0		-2.3	-6.0	-162.2	
	400	1.4	-0.6	-30.0		2.3	-1.4	-37.8	
GROSS BASAL AREA PAI (SQ.FT/A)	CON	2.1				1.9			
	200	1.3	-0.8	-38.1		2.6	0.7	36.8	
	400	1.5	-0.6	-28.6		2.3	0.4	21.1	

INITIAL STAND CHARACTERISTICS:

AGE	72 YEARS
TREES PER ACRE	188 TREES/ACRE
BASAL AREA	181.9 SQ.FEET/ACRE
TOTAL VOLUME	6047 CU.FEET/ACRE
CCF	177.6
RELATIVE DENSITY INDEX	49.6
MEAN DIAMETER	13.6 INCHES
AVERAGE CROWN LENGTH	35.1 FEET
AVERAGE CROWN RATIO	41.0 PERCENT
SITE HEIGHT (40 TPA)	97.3 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	89.7 PERCENT
GRAND FIR	2.5 PERCENT
WESTERN LARCH	5.3 PERCENT
PONDEROSA PINE	2.6 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
 INITIAL BASAL AREA OF 181.9 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET	CONTROL	11.9		
BASAL AREA	200 # N	6.7	-5.2	-43.7
(SQ.FEET/ACRE)	400 # N	10.5	-1.4	-11.8
8-YEAR GROSS	CONTROL	574.0		
BASAL AREA	200 # N	609.0	35.0	6.1
(SQ.FEET/ACRE)	400 # N	904.0	330.0	57.5
8-YEAR NET	CONTROL	30		
TOTAL VOLUME	200 # N	31	1	3.0
(CU.FEET/ACRE)	400 # N	28	-3	-8.3
8-YEAR GROSS	CONTROL	1163		
TOTAL VOLUME	200 # N	1408	245	21.1
(CU.FEET/ACRE)	400 # N	1451	288	24.8
8-YEAR CHANGE	CONTROL	1.34		
IN AVERAGE DIAMETER	200 # N	1.37	-0.03	2.2
(INCHES)	400 # N	1.02	-0.32	-23.9
8-YEAR CHANGE	CONTROL	5.50		
IN HEIGHT GROWTH	200 # N	5.40	-0.10	-1.8
(FEET)	400 # N	5.20	-0.30	-5.5

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL	CON	4.2			3.7		
AREA PAI	200	1.7	-2.5	-59.5	4.8	1.1	29.7
(SQ.FT/A)	400	0.4	-3.8	-90.5	4.0	0.3	3.1
GROSS BASAL	CON	4.6			5.2		
AREA PAI	200	4.6	0.0	0.0	4.7	-0.5	-9.6
(SQ.FT/A)	400	3.8	-0.8	-17.4	4.0	-1.2	-23.1
	TRT	THIRD TWO YEARS			FOURTH TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL	CON	1.2			-2.8		
AREA PAI	200	-1.1	-2.3	-191.7	-1.7	1.1	39.3
(SQ.FT/A)	400	1.8	0.6	50.0	-3.0	-0.2	-7.1
GROSS BASAL	CON	3.2			2.4		
AREA PAI	200	3.5	0.3	9.4	2.8	0.4	16.7
(SQ.FT/A)	400	2.9	-0.3	-9.4	2.9	0.5	20.8

INITIAL STAND CHARACTERISTICS:

AGE	71 YEARS
TREES PER ACRE	343 TREES/ACRE
BASAL AREA	189.8 SQ.FEET/ACRE
TOTAL VOLUME	5243 CU.FEET/ACRE
CCF	217.7
RELATIVE DENSITY INDEX	59.6
MEAN DIAMETER	10.1 INCHES
AVERAGE CROWN LENGTH	24.8 FEET
AVERAGE CROWN RATIO	37.0 PERCENT
SITE HEIGHT (40 TPA)	80.5 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	99.6 PERCENT
PONDEROSA PINE	0.4 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON INITIAL BASAL AREA OF 189.8 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	34.2		
	200 # N	29.3	-4.9	-14.3
	400 # N	7.5	-26.7	-78.1
8-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	1020		
	200 # N	1071	51.0	5.0
	400 # N	693.0	-327	-32.1
8-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	27		
	200 # N	31	4	13.7
	400 # N	20	-7	-26.2
8-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	790		
	200 # N	1035	245	31.0
	400 # N	1162	372	47.1
8-YEAR CHANGE IN AVERAGE DIAMETER (INCHES)	CONTROL	0.37		
	200 # N	0.81	-0.06	-6.9
	400 # N	-0.47	-1.34	-154.0
8-YEAR CHANGE IN HEIGHT GROWTH (FEET)	CONTROL	4.40		
	200 # N	4.50	0.10	2.3
	400 # N	4.00	-0.40	-9.1

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	5.1			3.7		
	200	6.0	0.9	17.6	4.6	0.9	24.3
	400	2.8	-2.3	-45.1	1.3	-2.4	-64.9
GROSS BASAL AREA PAI (SQ.FT/A)	CON	4.6			3.8		
	200	5.7	1.1	23.9	3.5	-0.3	-7.9
	400	3.9	-0.7	-15.2	1.3	-2.5	-65.8
	TRT	THIRD TWO YEARS			FOURTH TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	2.7			6.4		
	200	3.0	0.3	11.1	4.8	-1.6	-25.0
	400	-0.6	-3.3	-122.2	-4.7	-11.1	-173.4
GROSS BASAL AREA PAI (SQ.FT/A)	CON	2.8			2.8		
	200	3.3	0.5	17.9	3.1	0.3	10.7
	400	1.7	-0.9	-32.1	2.2	-0.6	-21.4

 INITIAL STAND CHARACTERISTICS:

AGE	74 YEARS
TREES PER ACRE	235 TREES/ACRE
BASAL AREA	216.7 SQ.FEET/ACRE
TOTAL VOLUME	7242 CU.FEET/ACRE
CCF	214.4
RELATIVE DENSITY INDEX	59.9
MEAN DIAMETER	13.1 INCHES
AVERAGE CROWN LENGTH	30.4 FEET
AVERAGE CROWN RATIO	35.8 PERCENT
SITE HEIGHT (40 TPA)	99.7 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	93.7 PERCENT
GRAND FIR	2.3 PERCENT
PONDEROSA PINE	4.0 PERCENT

 GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
 INITIAL BASAL AREA OF 216.7 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET	CONTROL	6.0		
BASAL AREA	200 # N	10.2	4.2	70.0
(SQ.FEET/ACRE)	400 # N	10.5	4.5	75.0
8-YEAR GROSS	CONTROL	887.0		
BASAL AREA	200 # N	965.0	78.0	3.8
(SQ.FEET/ACRE)	400 # N	851.0	-36.0	-4.1
8-YEAR NET	CONTROL	24		
TOTAL VOLUME	200 # N	40	16	65.0
(CU.FEET/ACRE)	400 # N	31	7	30.3
8-YEAR GROSS	CONTROL	1538		
TOTAL VOLUME	200 # N	1850	312	20.3
(CU.FEET/ACRE)	400 # N	1620	82	5.3
8-YEAR CHANGE	CONTROL	1.00		
IN AVERAGE DIAMETER	200 # N	1.31	0.31	31.0
(INCHES)	400 # N	0.85	-0.15	-15.0
8-YEAR CHANGE	CONTROL	6.30		
IN HEIGHT GROWTH	200 # N	8.50	2.20	34.7
(FEET)	400 # N	5.80	-0.50	-7.9

 PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS				SECOND TWO YEARS			
		INC	RESPONSE			INC	RESPONSE		
			DIFF	%			DIFF	%	
NET BASAL	CON	3.1				2.4			
AREA PAI	200	5.5	2.4	77.4		7.0	4.6	191.7	
(SQ.FT/A)	400	4.0	0.9	29.0		4.4	2.0	83.3	
GROSS BASAL	CON	3.4				2.4			
AREA PAI	200	6.5	3.1	91.2		5.3	2.9	120.8	
(SQ.FT/A)	400	5.0	1.6	47.1		4.4	2.0	83.3	
		THIRD TWO YEARS				FOURTH TWO YEARS			
		INC	RESPONSE			INC	RESPONSE		
			DIFF	%			DIFF	%	
NET BASAL	CON	1.3				-4.3			
AREA PAI	200	-3.8	-5.1	-392.3		2.4	6.7	155.8	
(SQ.FT/A)	400	-6.3	-7.6	-584.6		3.3	7.6	176.7	
GROSS BASAL	CON	2.4				3.5			
AREA PAI	200	4.1	1.7	70.8		4.3	0.8	22.9	
(SQ.FT/A)	400	3.1	0.7	29.2		3.2	-0.3	-8.6	

 INITIAL STAND CHARACTERISTICS:

AGE	75 YEARS
TREES PER ACRE	272 TREES/ACRE
BASAL AREA	146.7 SQ.FEET/ACRE
TOTAL VOLUME	4390 CU.FEET/ACRE
CCF	173.9
RELATIVE DENSITY INDEX	46.3
MEAN DIAMETER	9.9 INCHES
AVERAGE CROWN LENGTH	28.2 FEET
AVERAGE CROWN RATIO	40.5 PERCENT
SITE HEIGHT (40 TPA)	35.1 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	86.4 PERCENT
GRAND FIR	13.6 PERCENT

 GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
 INITIAL BASAL AREA OF 146.7 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET	CONTROL	-1.3		
BASAL AREA	200 # N	30.8	32.1	2469.2
(SQ.FEET/ACRE)	400 # N	31.1	32.4	2492.3
8-YEAR GROSS	CONTROL	379.0		
BASAL AREA	200 # N	1250	871.0	229.8
(SQ.FEET/ACRE)	400 # N	1275	896.0	236.4
8-YEAR NET	CONTROL	19		
TOTAL VOLUME	200 # N	38	19	102.1
(CU.FEET/ACRE)	400 # N	45	26	138.9
8-YEAR GROSS	CONTROL	979		
TOTAL VOLUME	200 # N	1487	508	51.9
(CU.FEET/ACRE)	400 # N	1681	702	71.7
8-YEAR CHANGE	CONTROL	0.64		
IN AVERAGE DIAMETER	200 # N	1.32	0.68	106.2
(INCHES)	400 # N	2.05	1.41	220.3
8-YEAR CHANGE	CONTROL	4.90		
IN HEIGHT GROWTH	200 # N	7.60	2.70	55.1
(FEET)	400 # N	9.10	4.20	85.7

 PERIODIC ANNUAL INCREMENT:

		FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
	TRT	INC	DIFF	%	INC	DIFF	%
NET BASAL	CON	2.3			1.1		
AREA PAI	200	6.6	4.3	187.0	4.4	3.3	300.0
(SQ.FT/A)	400	8.5	6.2	269.6	5.6	4.5	409.1
GROSS BASAL	CON	2.7			1.1		
AREA PAI	200	6.6	3.9	144.4	4.5	3.4	309.1
(SQ.FT/A)	400	8.1	5.4	200.0	5.6	4.5	409.1
		THIRD TWO YEARS			FOURTH TWO YEARS		
NET BASAL	CON	-1.2			-3.5		
AREA PAI	200	0.5	1.7	141.7	3.8	7.3	203.6
(SQ.FT/A)	400	-1.8	-0.6	-50.0	5.1	8.6	245.7
GROSS BASAL	CON	1.9			3.4		
AREA PAI	200	3.8	1.9	100.0	4.3	0.9	20.5
(SQ.FT/A)	400	4.4	2.5	131.6	4.8	1.4	41.2

INITIAL STAND CHARACTERISTICS:

AGE	75 YEARS
TREES PER ACRE	375 TREES/ACRE
BASAL AREA	218.9 SQ.FEET/ACRE
TOTAL VOLUME	8998 CU.FEET/ACRE
CCF	256.7
RELATIVE DENSITY INDEX	67.9
MEAN DIAMETER	10.3 INCHES
AVERAGE CROWN LENGTH	26.3 FEET
AVERAGE CROWN RATIO	36.2 PERCENT
SITE HEIGHT (40 TPA)	92.0 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	64.7 PERCENT
GRAND FIR	28.7 PERCENT
WESTERN REDCEDAR	3.1 PERCENT
HEMLOCK	3.5 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON INITIAL BASAL AREA OF 218.9 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	-4.1		
	200 # N	12.4	16.5	402.4
	400 # N	47.2	51.4	1253.7
8-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	334.0		
	200 # N	919.0	585.0	175.1
	400 # N	2295	1961	587.1
8-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	34		
	200 # N	43	9	26.6
	400 # N	49	15	43.5
8-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	1673		
	200 # N	1998	325	19.4
	400 # N	2328	655	39.2
8-YEAR CHANGE IN AVERAGE DIAMETER (INCHES)	CONTROL	0.96		
	200 # N	0.98	0.02	2.1
	400 # N	1.04	0.08	8.3
8-YEAR CHANGE IN HEIGHT GROWTH (FEET)	CONTROL	6.40		
	200 # N	7.70	1.30	20.3
	400 # N	6.90	0.50	7.8

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	-1.4			0.2		
	200	6.1	7.5	535.7	6.1	5.9	2950.0
	400	5.4	6.8	485.7	6.1	5.9	2950.0
GROSS BASAL AREA PAI (SQ.FT/A)	CON	4.2			3.1		
	200	5.9	1.7	40.5	5.4	2.3	74.2
	400	5.8	1.6	38.1	6.1	3.0	90.8
		THIRD TWO YEARS			FOURTH TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	4.4			-5.6		
	200	4.6	0.2	4.5	-8.0	-2.4	-42.9
	400	6.0	1.6	36.4	5.9	11.5	205.4
GROSS BASAL AREA PAI (SQ.FT/A)	CON	4.4			5.0		
	200	5.3	0.9	20.5	4.9	-0.1	-2.0
	400	6.1	1.7	38.6	6.2	1.2	24.0

INITIAL STAND CHARACTERISTICS:

AGE	87 YEARS
TREES PER ACRE	207 TREES/ACRE
BASAL AREA	154.8 SQ.FEET/ACRE
TOTAL VOLUME	4392 CU.FEET/ACRE
CCF	165.5
RELATIVE DENSITY INDEX	45.2
MEAN DIAMETER	11.7 INCHES
AVERAGE CROWN LENGTH	32.9 FEET
AVERAGE CROWN RATIO	46.7 PERCENT
SITE HEIGHT (40 TPA)	83.9 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	85.8 PERCENT
GRAND FIR	3.0 PERCENT
PONDEROSA PINE	11.2 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
 INITIAL BASAL AREA OF 154.8 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET	CONTROL	27.7		
BASAL AREA	200 # N	31.5	3.8	13.7
(SQ.FEET/ACRE)	400 # N	43.0	15.3	55.2
8-YEAR GROSS	CONTROL	1213		
BASAL AREA	200 # N	1263	50.0	4.1
(SQ.FEET/ACRE)	400 # N	1706	493.0	40.6
8-YEAR NET	CONTROL	29		
TOTAL VOLUME	200 # N	34	5	15.3
(CU.FEET/ACRE)	400 # N	43	14	46.3
8-YEAR GROSS	CONTROL	1276		
TOTAL VOLUME	200 # N	1468	192	15.0
(CU.FEET/ACRE)	400 # N	1692	416	32.6
8-YEAR CHANGE	CONTROL	1.02		
IN AVERAGE DIAMETER	200 # N	1.17	0.15	14.7
(INCHES)	400 # N	2.12	1.10	107.8
8-YEAR CHANGE	CONTROL	7.00		
IN HEIGHT GROWTH	200 # N	7.10	0.10	1.4
(FEET)	400 # N	8.70	1.70	24.3

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL	CON	3.5			3.1		
AREA PAI	200	4.5	1.0	28.6	2.5	-0.6	-19.4
(SQ.FT/A)	400	7.3	3.8	108.6	5.2	2.1	67.7
GROSS BASAL	CON	3.6			3.1		
AREA PAI	200	4.9	1.3	36.1	3.9	0.8	25.8
(SQ.FT/A)	400	6.9	3.3	91.7	5.2	2.1	67.7
	TRT	THIRD TWO YEARS			FOURTH TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL	CON	3.8			3.2		
AREA PAI	200	2.6	-1.2	-31.6	1.6	-1.6	-50.0
(SQ.FT/A)	400	6.1	2.3	60.5	4.7	1.5	46.9
GROSS BASAL	CON	3.8			4.1		
AREA PAI	200	4.5	0.7	18.4	3.7	-0.4	-9.8
(SQ.FT/A)	400	5.3	1.5	39.5	4.2	0.1	2.4

INITIAL STAND CHARACTERISTICS:

AGE	50 YEARS
TREES PER ACRE	440 TREES/ACRE
BASAL AREA	237.5 SQ.FEET/ACRE
TOTAL VOLUME	8630 CU.FEET/ACRE
CCF	270.4
RELATIVE DENSITY INDEX	74.9
MEAN DIAMETER	10.2 INCHES
AVERAGE CROWN LENGTH	27.4 FEET
AVERAGE CROWN RATIO	43.3 PERCENT
SITE HEIGHT (40 TPA)	81.7 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	65.6 PERCENT
GRAND FIR	23.2 PERCENT
WESTERN REDCEDAR	0.0 PERCENT
WESTERN LARCH	10.6 PERCENT
ENGELMANN SPRUCE	0.6 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
 INITIAL BASAL AREA OF 237.5 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	31.5		
	200 # N	56.2	24.7	78.4
	400 # N	31.5	0.4	1.3
8-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	1780		
	200 # N	2691	911.0	51.2
	400 # N	1996	216.0	12.1
8-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	38		
	200 # N	58	20	53.7
	400 # N	48	10	27.5
8-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	1976		
	200 # N	2641	665	33.7
	400 # N	2439	463	23.4
8-YEAR CHANGE IN AVERAGE DIAMETER (INCHES)	CONTROL	0.76		
	200 # N	1.35	0.59	77.6
	400 # N	0.84	0.08	10.5
8-YEAR CHANGE IN HEIGHT GROWTH (FEET)	CONTROL	7.20		
	200 # N	9.30	2.10	29.2
	400 # N	7.90	0.70	9.7

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	4.3			1.9		
	200	3.4	4.1	95.3	8.3	6.4	336.3
	400	4.2	-0.1	-2.3	4.9	3.0	157.9
GROSS BASAL AREA PAI (SQ.FT/A)	CON	4.4			3.6		
	200	8.0	3.6	81.8	6.8	3.2	88.9
	400	5.4	1.0	22.7	5.6	2.0	55.6
	TRT	THIRD TWO YEARS			FOURTH TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	5.1			4.3		
	200	6.7	1.6	31.4	9.7	5.4	125.6
	400	3.3	-1.8	-35.3	2.1	-2.2	-51.2
GROSS BASAL AREA PAI (SQ.FT/A)	CON	5.1			5.8		
	200	7.0	1.9	37.3	7.4	1.6	27.6
	400	6.4	1.3	25.5	6.5	0.7	12.1

INITIAL STAND CHARACTERISTICS:

AGE	32 YEARS
TREES PER ACRE	320 TREES/ACRE
BASAL AREA	129.1 SQ.FEET/ACRE
TOTAL VOLUME	2814 CU.FEET/ACRE
CCF	159.1
RELATIVE DENSITY INDEX	43.9
MEAN DIAMETER	8.6 INCHES
AVERAGE CROWN LENGTH	30.1 FEET
AVERAGE CROWN RATIO	59.8 PERCENT
SITE HEIGHT (40 TPA)	61.1 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	85.2 PERCENT
GRAND FIR	9.5 PERCENT
WESTERN REDCEDAR	1.7 PERCENT
WESTERN LARCH	1.2 PERCENT
WHITE PINE	2.5 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
 INITIAL BASAL AREA OF 129.1 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET	CONTROL	54.7		
BASAL AREA	200 # N	65.0	10.3	18.8
(SQ.FEET/ACRE)	400 # N	63.1	3.4	15.4
8-YEAR GROSS	CONTROL	1991		
BASAL AREA	200 # N	2326	335.0	16.8
(SQ.FEET/ACRE)	400 # N	2171	180.0	9.0
8-YEAR NET	CONTROL	56		
TOTAL VOLUME	200 # N	70	14	24.8
(CU.FEET/ACRE)	400 # N	66	10	17.9
8-YEAR GROSS	CONTROL	2036		
TOTAL VOLUME	200 # N	2425	389	19.1
(CU.FEET/ACRE)	400 # N	2228	192	9.4
8-YEAR CHANGE	CONTROL	1.74		
IN AVERAGE DIAMETER	200 # N	2.26	0.52	27.9
(INCHES)	400 # N	2.20	0.46	26.4
8-YEAR CHANGE	CONTROL	11.80		
IN HEIGHT GROWTH	200 # N	13.70	1.90	15.1
(FEET)	400 # N	12.80	1.00	8.5

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL	CON	7.0			6.4		
AREA PAI	200	9.4	2.4	34.3	6.8	0.4	6.2
(SQ.FT/A)	400	9.7	2.7	38.6	7.1	0.7	10.9
GROSS BASAL	CON	7.1			6.4		
AREA PAI	200	10.2	3.1	43.7	8.5	2.1	32.8
(SQ.FT/A)	400	9.6	2.5	35.2	8.3	1.9	29.7
	TRT	THIRD TWO YEARS			FOURTH TWO YEARS		
		INC	DIFF	%	INC	DIFF	%
		INC	DIFF	%	INC	DIFF	%
NET BASAL	CON	6.6			7.2		
AREA PAI	200	7.5	0.9	13.6	8.5	1.3	18.1
(SQ.FT/A)	400	7.3	0.7	10.6	7.7	0.5	6.9
GROSS BASAL	CON	6.9			7.7		
AREA PAI	200	7.7	0.8	11.6	8.6	0.9	11.7
(SQ.FT/A)	400	7.2	0.3	4.3	7.9	0.2	2.6

INITIAL STAND CHARACTERISTICS:

AGE	83 YEARS
TREES PER ACRE	245 TREES/ACRE
BASAL AREA	122.0 SQ.FEET/ACRE
TOTAL VOLUME	3010 CU.FEET/ACRE
CCF	142.3
RELATIVE DENSITY INDEX	39.4
MEAN DIAMETER	9.6 INCHES
AVERAGE CROWN LENGTH	27.3 FEET
AVERAGE CROWN RATIO	45.2 PERCENT
SITE HEIGHT (40 TPA)	72.0 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	97.5 PERCENT
WESTERN LARCH	1.2 PERCENT
LODGEPOLE PINE	0.8 PERCENT
PONDEROSA PINE	0.4 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON INITIAL BASAL AREA OF 122.0 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	28.7		
	200 # N	24.0	-4.7	-16.4
	400 # N	29.2	0.5	1.7
8-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	875.0		
	200 # N	940.0	65.0	7.4
	400 # N	1133	258.0	29.5
8-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	25		
	200 # N	27	2	7.9
	400 # N	31	6	23.2
8-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	788		
	200 # N	1034	246	31.2
	400 # N	1207	419	53.2
8-YEAR CHANGE IN AVERAGE DIAMETER (INCHES)	CONTROL	1.05		
	200 # N	1.04	-0.01	-1.0
	400 # N	0.92	-0.13	-12.4
8-YEAR CHANGE IN HEIGHT GROWTH (FEET)	CONTROL	6.20		
	200 # N	6.40	0.20	3.2
	400 # N	7.10	0.90	14.5

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	3.7			2.9		
	200	3.9	0.2	5.4	2.2	-0.7	-24.1
	400	3.8	0.1	2.7	3.3	0.4	13.3
GROSS BASAL AREA PAI (SQ.FT/A)	CON	3.5			2.9		
	200	4.0	0.5	14.3	3.0	0.1	3.4
	400	4.1	0.6	17.1	3.4	0.5	17.2
	TRT	THIRD TWO YEARS			FOURTH TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	2.9			5.2		
	200	3.0	0.1	3.4	1.8	-3.4	-65.4
	400	3.3	0.4	13.8	2.9	-2.3	-44.2
GROSS BASAL AREA PAI (SQ.FT/A)	CON	3.0			3.5		
	200	2.9	-0.1	-3.3	3.7	0.2	5.7
	400	3.8	0.8	26.7	4.3	0.8	22.9

 INITIAL STAND CHARACTERISTICS:

AGE	81 YEARS
TREES PER ACRE	212 TREES/ACRE
BASAL AREA	118.0 SQ.FEET/ACRE
TOTAL VOLUME	3075 CU.FEET/ACRE
CCF	134.4
RELATIVE DENSITY INDEX	37.1
MEAN DIAMETER	10.1 INCHES
AVERAGE CROWN LENGTH	28.3 FEET
AVERAGE CROWN RATIO	44.2 PERCENT
SITE HEIGHT (40 TPA)	75.3 FEET
SPECIES COMPOSITION (% OF TOTAL BAL)	
DOUGLAS-FIR	95.8 PERCENT
LLODGEPCLE PINE	0.2 PERCENT

 GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
 INITIAL BASAL AREA OF 118.0 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET	CONTROL	21.5		
BASAL AREA	200 # N	30.7	9.2	42.8
(SQ.FEET/ACRE)	400 # N	20.1	-1.4	-6.5
8-YEAR GROSS	CONTROL	810.0		
BASAL AREA	200 # N	1052	242.0	29.9
(SQ.FEET/ACRE)	400 # N	930.0	120.0	14.8
8-YEAR NET	CONTROL	23		
TOTAL VOLUME	200 # N	33	10	44.3
(CU.FEET/ACRE)	400 # N	27	4	18.3
8-YEAR GROSS	CONTROL	843		
TOTAL VOLUME	200 # N	1043	200	23.7
(CU.FEET/ACRE)	400 # N	1148	305	36.2
8-YEAR CHANGE	CONTROL	1.01		
IN AVERAGE DIAMETER	200 # N	1.60	0.59	53.4
(INCHES)	400 # N	0.79	-0.22	-21.8
8-YEAR CHANGE	CONTROL	5.70		
IN HEIGHT GROWTH	200 # N	6.80	1.10	19.3
(FEET)	400 # N	6.90	1.20	21.1

 PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL	CON	3.3			2.7		
AREA PAI	200	5.5	2.2	66.7	3.5	0.8	29.6
(SQ.FT/A)	400	3.0	-0.3	-9.1	1.3	-1.4	-51.9
GROSS BASAL	CON	3.2			2.7		
AREA PAI	200	5.1	1.9	59.4	4.0	1.3	49.1
(SQ.FT/A)	400	3.4	0.2	6.2	3.0	0.3	11.1
	TRT	THIRD TWO YEARS			FOURTH TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL	CON	1.5			3.4		
AREA PAI	200	4.4	2.9	193.3	5.8	2.4	70.6
(SQ.FT/A)	400	2.1	0.6	40.0	1.8	-1.6	-47.1
GROSS BASAL	CON	2.4			3.2		
AREA PAI	200	3.6	1.2	50.0	4.1	0.9	23.1
(SQ.FT/A)	400	2.9	0.5	20.8	4.1	0.9	23.1

INITIAL STAND CHARACTERISTICS:

AGE	55 YEARS
TREES PER ACRE	358 TREES/ACRE
BASAL AREA	187.2 SQ.FEET/ACRE
TOTAL VOLUME	5216 CU.FEET/ACRE
CCF	211.5
RELATIVE DENSITY INDEX	59.7
MEAN DIAMETER	9.8 INCHES
AVERAGE CROWN LENGTH	25.9 FEET
AVERAGE CROWN RATIO	38.8 PERCENT
SITE HEIGHT (40 TPA)	81.3 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	94.5 PERCENT
GRAND FIR	2.3 PERCENT
WESTERN REDCEDAR	0.9 PERCENT
WESTERN LARCH	0.2 PERCENT
PONDEROSA PINE	0.3 PERCENT
ENGELMANN SPRUCE	1.7 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
 INITIAL BASAL AREA OF 187.2 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET	CONTROL	40.6		
BASAL AREA	200 # N	37.4	-3.2	-7.9
(SQ.FEET/ACRE)	400 # N	26.3	-14.3	-35.2
8-YEAR GROSS	CONTROL	1578		
BASAL AREA	200 # N	1669	91.0	5.8
(SQ.FEET/ACRE)	400 # N	1483	-95.0	-6.0
3-YEAR NET	CONTROL	39		
TOTAL VOLUME	200 # N	41	2	6.2
(CU.FEET/ACRE)	400 # N	39	1	1.6
8-YEAR GROSS	CONTROL	1505		
TOTAL VOLUME	200 # N	1838	333	22.1
(CU.FEET/ACRE)	400 # N	1872	367	24.4
8-YEAR CHANGE	CONTROL	1.11		
IN AVERAGE DIAMETER	200 # N	1.12	0.01	0.9
(INCHES)	400 # N	1.69	0.58	52.3
8-YEAR CHANGE	CONTROL	7.60		
IN HEIGHT GROWTH	200 # N	7.20	-0.40	-5.3
(FEET)	400 # N	7.80	0.20	2.6

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL	CON	4.6			5.5		
AREA PAI	200	6.1	1.5	32.6	4.1	-1.4	-25.5
(SQ.FT/A)	400	5.4	0.8	17.4	4.2	-1.3	-23.6
GROSS BASAL	CON	5.3			5.5		
AREA PAI	200	6.4	1.1	20.8	5.1	-0.4	-7.3
(SQ.FT/A)	400	5.6	0.3	5.7	4.8	-0.7	-12.7
	TRT	THIRD TWO YEARS			FOURTH TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL	CON	3.9			6.8		
AREA PAI	200	1.4	-2.5	-64.1	3.6	-3.2	-47.1
(SQ.FT/A)	400	-1.0	-4.9	-125.6	3.9	-2.9	-42.6
GROSS BASAL	CON	4.0			4.6		
AREA PAI	200	3.7	-0.3	-7.5	5.2	0.4	8.3
(SQ.FT/A)	400	3.8	-0.2	-5.0	5.3	0.5	10.4

INITIAL STAND CHARACTERISTICS:

AGE	57 YEARS
TREES PER ACRE	313 TREES/ACRE
BASAL AREA	145.6 SQ.FEET/ACRE
TOTAL VOLUME	2833 CU.FEET/ACRE
CCF	170.2
RELATIVE DENSITY INDEX	47.9
MEAN DIAMETER	9.3 INCHES
AVERAGE CROWN LENGTH	24.2 FEET
AVERAGE CROWN RATIO	52.0 PERCENT
SITE HEIGHT (40 TPA)	56.0 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	93.1 PERCENT
WESTERN LARCH	2.3 PERCENT
LODGEPOLE PINE	4.3 PERCENT
ENGELMANN SPRUCE	0.3 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON INITIAL BASAL AREA OF 145.6 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	11.8		
	200 # N	23.8	12.0	101.7
	400 # N	19.8	8.0	67.8
8-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	499.0		
	200 # N	779.0	280.0	56.1
	400 # N	687.0	188.0	37.7
8-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	17		
	200 # N	25	9	51.5
	400 # N	24	8	44.9
8-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	629		
	200 # N	747	118	18.8
	400 # N	785	156	24.3
8-YEAR CHANGE IN AVERAGE DIAMETER (INCHES)	CONTROL	0.48		
	200 # N	0.85	0.37	77.1
	400 # N	0.67	0.19	39.6
8-YEAR CHANGE IN HEIGHT GROWTH (FEET)	CONTROL	4.20		
	200 # N	5.00	0.80	11.0
	400 # N	4.90	0.70	16.7

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	2.1			1.9		
	200	3.8	1.7	81.0	4.5	2.6	136.8
	400	3.3	1.2	57.1	3.2	1.3	68.4
GROSS BASAL AREA PAI (SQ.FT/A)	CON	2.2			1.9		
	200	3.5	1.3	59.1	3.5	1.6	84.2
	400	3.4	1.2	54.5	3.2	1.3	68.4
	TRT	THIRD TWO YEARS			FOURTH TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	1.0			0.7		
	200	1.7	0.7	70.0	5.4	4.7	571.4
	400	1.4	0.4	40.0	1.4	0.7	100.0
GROSS BASAL AREA PAI (SQ.FT/A)	CON	1.0			3.2		
	200	1.9	0.9	90.0	3.8	0.6	18.7
	400	1.6	0.6	60.0	3.8	0.6	18.7

INITIAL STAND CHARACTERISTICS:

AGE	49 YEARS
TREES PER ACRE	243 TREES/ACRE
BASAL AREA	123.6 SQ.FEET/ACRE
TOTAL VOLUME	2437 CU.FEET/ACRE
CCF	137.8
RELATIVE DENSITY INDEX	39.7
MEAN DIAMETER	9.7 INCHES
AVERAGE CROWN LENGTH	29.7 FEET
AVERAGE CROWN RATIO	63.7 PERCENT
SITE HEIGHT (40 TPA)	55.9 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	88.6 PERCENT
WESTERN LARCH	0.4 PERCENT
LODGEPOLE PINE	2.4 PERCENT
PONDEROSA PINE	8.6 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON INITIAL BASAL AREA OF 123.6 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	25.6		
	200 # N	26.7	1.1	4.3
	400 # N	21.5	-4.1	-16.0
8-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	758.0		
	200 # N	920.0	162.0	21.4
	400 # N	707.0	-51.0	-6.7
8-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	23		
	200 # N	26	3	14.1
	400 # N	23	0	0.9
8-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	677		
	200 # N	935	258	38.1
	400 # N	757	80	11.8
8-YEAR CHANGE IN AVERAGE DIAMETER (INCHES)	CONTROL	0.91		
	200 # N	0.90	-0.01	-1.1
	400 # N	0.78	-0.13	-14.3
8-YEAR CHANGE IN HEIGHT GROWTH (FEET)	CONTROL	6.00		
	200 # N	7.00	1.00	16.7
	400 # N	5.60	-0.40	-6.7

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		INC	RESPONSE		INC	RESPONSE	
			DIFF	%		DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	3.3			3.3		
	200	3.4	0.1	3.0	2.9	-0.4	-12.1
	400	3.4	0.1	3.0	2.9	-0.4	-12.1
GROSS BASAL AREA PAI (SQ.FT/A)	CON	3.1			3.3		
	200	3.5	0.4	12.9	3.4	0.1	3.0
	400	3.5	0.4	12.9	2.9	-0.4	-12.1
		THIRD TWO YEARS			FOURTH TWO YEARS		
		INC	RESPONSE		INC	RESPONSE	
			DIFF	%		DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	2.0			4.5		
	200	2.3	0.3	15.0	3.0	-1.5	-33.3
	400	1.6	-0.4	-20.0	2.1	-2.4	-53.3
GROSS BASAL AREA PAI (SQ.FT/A)	CON	2.1			3.0		
	200	2.2	0.1	4.8	3.8	0.8	26.7
	400	1.9	-0.2	-9.5	3.0	0.0	0.0

INITIAL STAND CHARACTERISTICS:

AGE	57 YEARS
TREES PER ACRE	417 TREES/ACRE
BASAL AREA	155.7 SQ.FEET/ACRE
TOTAL VOLUME	3570 CU.FEET/ACRE
CCF	170.7
RELATIVE DENSITY INDEX	54.0
MEAN DIAMETER	8.4 INCHES
AVERAGE CROWN LENGTH	22.5 FEET
AVERAGE CROWN RATIO	41.5 PERCENT
SITE HEIGHT (40 TPA)	63.1 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	57.2 PERCENT
WESTERN LARCH	15.0 PERCENT
LODGEPOLE PINE	10.7 PERCENT
POUNDEROSA PINE	17.0 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON INITIAL BASAL AREA OF 155.7 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET	CONTROL	-3.0		
BASAL AREA	200 # N	-1.6	1.4	43.7
(SQ.FEET/ACRE)	400 # N	14.7	17.7	590.0
8-YEAR GROSS	CONTROL	120.0		
BASAL AREA	200 # N	201.0	81.0	67.5
(SQ.FEET/ACRE)	400 # N	644.0	524.0	436.7
8-YEAR NET	CONTROL	20		
TOTAL VOLUME	200 # N	29	9	41.9
(CU.FEET/ACRE)	400 # N	37	17	82.8
8-YEAR GROSS	CONTROL	785		
TOTAL VOLUME	200 # N	1036	251	32.0
(CU.FEET/ACRE)	400 # N	1209	424	54.0
8-YEAR CHANGE	CONTROL	0.63		
IN AVERAGE DIAMETER	200 # N	1.13	0.50	79.4
(INCHES)	400 # N	1.60	0.97	154.0
8-YEAR CHANGE	CONTROL	4.80		
IN HEIGHT GROWTH	200 # N	6.50	1.70	35.4
(FEET)	400 # N	7.10	2.30	47.9

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL	CON	-2.4			1.2		
AREA PAI	200	-3.7	-1.3	-54.2	-4.2	-5.4	-450.0
(SQ.FT/A)	400	5.2	7.6	316.7	-4.4	-5.6	-466.7
GROSS BASAL	CON	1.8			3.0		
AREA PAI	200	3.5	1.7	94.4	4.3	1.3	43.3
(SQ.FT/A)	400	5.0	3.2	177.8	5.3	2.3	76.7
	TRT	THIRD TWO YEARS			FOURTH TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL	CON	-1.2			0.8		
AREA PAI	200	2.4	3.6	300.0	3.2	2.4	300.0
(SQ.FT/A)	400	2.5	3.7	308.3	5.0	4.2	525.0
GROSS BASAL	CON	2.0			3.3		
AREA PAI	200	2.6	0.6	30.0	4.0	0.7	21.2
(SQ.FT/A)	400	3.5	1.5	75.0	4.8	1.5	45.5

INITIAL STAND CHARACTERISTICS:

AGE	57 YEARS
TREES PER ACRE	613 TREES/ACRE
BASAL AREA	134.6 SQ.FEET/ACRE
TOTAL VOLUME	3059 CU.FEET/ACRE
CCF	172.6
RELATIVE DENSITY INDEX	53.4
MEAN DIAMETER	6.4 INCHES
AVERAGE CROWN LENGTH	16.9 FEET
AVERAGE CROWN RATIO	34.0 PERCENT
SITE HEIGHT (40 TPA)	63.7 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	76.8 PERCENT
GRAND FIR	0.3 PERCENT
WESTERN LARCH	8.3 PERCENT
LODGEPOLE PINE	12.8 PERCENT
PUNDEROSA PINE	0.3 PERCENT
ENGELMANN SPRUCE	0.6 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON INITIAL BASAL AREA OF 134.6 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	2.8		
	200 # N	4.3	1.5	53.6
	400 # N	10.4	7.6	271.4
8-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	258.0		
	200 # N	266.0	8.0	3.1
	400 # N	533.0	275.0	106.6
8-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	22		
	200 # N	34	12	56.0
	400 # N	34	13	57.3
8-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	804		
	200 # N	1062	258	32.1
	400 # N	1066	262	32.6
8-YEAR CHANGE IN AVERAGE DIAMETER (INCHES)	CONTROL	0.48		
	200 # N	0.99	0.51	106.2
	400 # N	1.40	0.92	191.7
8-YEAR CHANGE IN HEIGHT GROWTH (FEET)	CONTROL	4.70		
	200 # N	5.80	1.10	23.4
	400 # N	6.70	2.00	42.6

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	2.3			-4.0		
	200	1.6	-0.7	-30.4	-5.8	-1.8	-45.0
	400	4.5	2.2	95.7	-5.2	-1.2	-30.0
GROSS BASAL AREA PAI (SQ.FT/A)	CON	2.4			2.2		
	200	4.3	1.9	79.2	4.5	2.3	104.5
	400	4.4	2.0	83.3	4.4	2.2	100.0
	TRT	THIRD TWO YEARS			FOURTH TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	0.7			2.2		
	200	3.3	2.6	371.4	3.2	1.0	45.5
	400	1.4	0.7	100.0	5.2	3.0	136.4
GROSS BASAL AREA PAI (SQ.FT/A)	CON	2.3			3.9		
	200	3.7	1.4	60.9	4.5	0.6	15.4
	400	3.9	1.6	69.6	4.5	0.6	15.4

INITIAL STAND CHARACTERISTICS:

AGE	36 YEARS
TREES PER ACRE	413 TREES/ACRE
BASAL AREA	145.7 SQ.FEET/ACRE
TOTAL VOLUME	3289 CU.FEET/ACRE
CCF	182.3
RELATIVE DENSITY INDEX	51.2
MEAN DIAMETER	8.1 INCHES
AVERAGE CROWN LENGTH	28.3 FEET
AVERAGE CROWN RATIO	54.0 PERCENT
SITE HEIGHT (40 TPA)	63.8 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	72.4 PERCENT
GRAND FIR	11.7 PERCENT
WESTERN REDCEDAR	8.5 PERCENT
WESTERN LARCH	7.4 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON INITIAL BASAL AREA OF 145.7 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	66.5		
	200 # N	57.6	-8.9	-13.4
	400 # N	79.1	12.6	18.9
8-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	2293		
	200 # N	1820	-473	-20.6
	400 # N	2470	177.0	7.7
8-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	70		
	200 # N	74	5	6.9
	400 # N	87	17	24.7
8-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	2354		
	200 # N	2437	83	3.5
	400 # N	2627	273	11.6
8-YEAR CHANGE IN AVERAGE DIAMETER (INCHES)	CONTROL	1.88		
	200 # N	1.78	-0.10	-5.3
	400 # N	2.33	0.45	23.9
8-YEAR CHANGE IN HEIGHT GROWTH (FEET)	CONTROL	10.60		
	200 # N	11.60	1.00	9.4
	400 # N	12.30	1.70	16.0

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		INC	RESPONSE		INC	RESPONSE	
			DIFF	%		DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	10.1			7.1		
	200	9.6	-0.5	-5.0	5.1	-2.0	-23.2
	400	13.4	3.3	32.7	10.0	2.9	40.9
GROSS BASAL AREA PAI (SQ.FT/A)	CON	10.1			7.7		
	200	11.1	1.0	9.9	8.7	1.0	13.0
	400	13.3	3.2	31.7	10.9	3.2	41.6
	TRT	THIRD TWO YEARS			FOURTH TWO YEARS		
		INC	RESPONSE		INC	RESPONSE	
			DIFF	%		DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	8.1			8.0		
	200	3.7	-4.4	-54.3	8.2	0.2	2.5
	400	6.4	-1.7	-21.0	10.2	2.2	27.5
GROSS BASAL AREA PAI (SQ.FT/A)	CON	8.1			8.9		
	200	8.1	0.0	0.0	9.2	0.3	3.4
	400	9.5	1.4	17.3	9.7	0.8	9.0

INITIAL STAND CHARACTERISTICS:

AGE	60 YEARS
TREES PER ACRE	168 TREES/ACRE
BASAL AREA	133.6 SQ.FEET/ACRE
TOTAL VOLUME	3887 CU.FEET/ACRE
CCF	139.4
RELATIVE DENSITY INDEX	38.3
MEAN DIAMETER	12.3 INCHES
AVERAGE CROWN LENGTH	32.1 FEET
AVERAGE CROWN RATIO	42.8 PERCENT
SITE HEIGHT (40 TPA)	84.3 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	96.4 PERCENT
GRAND FIR	0.4 PERCENT
WESTERN LARCH	2.8 PERCENT
LUDGECLE PINE	0.4 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
 INITIAL BASAL AREA OF 133.6 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET	CONTROL	20.7		
BASAL AREA	200 # N	36.6	15.9	76.8
(SQ.FEET/ACRE)	400 # N	22.7	2.0	9.7
8-YEAR GROSS	CONTROL	893.0		
BASAL AREA	200 # N	1458	565.0	63.3
(SQ.FEET/ACRE)	400 # N	1040	147.0	16.5
8-YEAR NET	CONTROL	27		
TOTAL VOLUME	200 # N	37	10	37.7
(CU.FEET/ACRE)	400 # N	36	9	35.5
8-YEAR GROSS	CONTROL	1056		
TOTAL VOLUME	200 # N	1460	404	38.3
(CU.FEET/ACRE)	400 # N	1451	395	37.4
8-YEAR CHANGE	CONTROL	1.30		
IN AVERAGE DIAMETER	200 # N	1.63	0.33	25.4
(INCHES)	400 # N	1.61	0.31	23.8
8-YEAR CHANGE	CONTROL	5.30		
IN HEIGHT GROWTH	200 # N	7.20	1.30	22.0
(FEET)	400 # N	8.00	2.10	35.6

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL	CON	4.0			3.5		
AREA PAI	200	5.9	1.9	47.5	4.7	1.2	34.3
(SQ.FT/A)	400	0.5	-3.5	-87.5	3.5	0.0	0.0
GROSS BASAL	CON	4.0			3.5		
AREA PAI	200	5.9	1.9	47.5	4.8	1.3	37.1
(SQ.FT/A)	400	5.4	1.4	35.0	4.5	1.0	28.6
	TRT	THIRD TWO YEARS			FOURTH TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL	CON	2.8			0.2		
AREA PAI	200	3.5	0.7	25.0	3.9	3.7	1850.0
(SQ.FT/A)	400	3.8	1.0	35.7	3.2	3.0	1500.0
GROSS BASAL	CON	2.8			3.1		
AREA PAI	200	3.5	0.7	25.0	4.0	0.9	29.0
(SQ.FT/A)	400	4.0	1.2	42.9	4.0	0.9	29.0

INITIAL STAND CHARACTERISTICS:

AGE	75 YEARS
TREES PER ACRE	322 TREES/ACRE
BASAL AREA	173.1 SQ.FEET/ACRE
TOTAL VOLUME	4611 CU.FEET/ACRE
CCF	176.2
RELATIVE DENSITY INDEX	54.8
MEAN DIAMETER	9.9 INCHES
AVERAGE CROWN LENGTH	27.7 FEET
AVERAGE CROWN RATIO	43.3 PERCENT
SITE HEIGHT (40 TPA)	77.2 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	96.5 PERCENT
WESTERN LARCH	0.4 PERCENT
PONDEROSA PINE	3.1 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON INITIAL BASAL AREA OF 173.1 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	25.8		
	200 # N	31.6	5.8	22.5
	400 # N	50.9	25.1	97.3
8-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	1099		
	200 # N	1309	210.0	19.1
	400 # N	1766	667.0	60.7
8-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	30		
	200 # N	30	0	0.0
	400 # N	47	17	57.2
8-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	1223		
	200 # N	1351	128	10.5
	400 # N	1623	400	32.7
8-YEAR CHANGE IN AVERAGE DIAMETER (INCHES)	CONTROL	0.83		
	200 # N	0.77	-0.06	-7.2
	400 # N	1.71	0.88	106.0
8-YEAR CHANGE IN HEIGHT GROWTH (FEET)	CONTROL	5.10		
	200 # N	5.70	0.60	11.8
	400 # N	7.00	1.90	37.3

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	4.4			4.0		
	200	4.3	-0.1	-2.3	3.1	-0.9	-22.5
	400	7.5	3.1	70.5	6.7	2.7	67.5
GROSS BASAL AREA PAI (SQ.FT/A)	CON	4.5			4.0		
	200	4.7	0.2	4.4	4.2	0.2	5.0
	400	7.1	2.6	57.8	6.7	2.7	67.5
	TRT	THIRD TWO YEARS			FOURTH TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	2.6			1.8		
	200	2.6	0.0	0.0	1.8	0.0	0.0
	400	5.5	2.9	111.5	7.7	5.9	327.8
GROSS BASAL AREA PAI (SQ.FT/A)	CON	2.6			3.9		
	200	2.3	-0.3	-11.5	3.6	-0.3	-7.7
	400	4.6	2.0	76.9	5.3	1.4	35.9

INITIAL STAND CHARACTERISTICS:

AGE	61 YEARS
TREES PER ACRE	240 TREES/ACRE
BASAL AREA	148.1 SQ.FEET/ACRE
TOTAL VOLUME	3528 CU.FEET/ACRE
CCF	161.2
RELATIVE DENSITY INDEX	45.4
MEAN DIAMETER	10.7 INCHES
AVERAGE CROWN LENGTH	30.4 FEET
AVERAGE CROWN RATIO	51.2 PERCENT
SITE HEIGHT (40 TPA)	67.8 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	86.1 PERCENT
PONDEROSA PINE	13.9 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
 INITIAL BASAL AREA OF 148.1 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL 200 # N 400 # N	34.6 7.6 35.8	-27.0 1.2	-78.0 3.5
8-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL 200 # N 400 # N	1348 657.0 1384	-691 36.0	-51.3 2.7
8-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL 200 # N 400 # N	35 31 41	-4 6	-10.9 17.0
8-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL 200 # N 400 # N	1353 1277 1474	-76 121	-5.6 8.9
8-YEAR CHANGE IN AVERAGE DIAMETER (INCHES)	CONTROL 200 # N 400 # N	1.23 1.29 1.54	0.06 0.31	4.9 25.2
8-YEAR CHANGE IN HEIGHT GROWTH (FEET)	CONTROL 200 # N 400 # N	8.40 8.00 8.40	-0.40 0.00	-4.8 0.0

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON 200 400	4.1 4.0 5.5	-0.1 1.4	-2.4 34.1	4.8 4.6 5.9	-0.2 1.1	-4.2 22.9
GROSS BASAL AREA PAI (SQ.FT/A)	CON 200 400	4.1 4.1 5.4	0.0 1.3	0.0 31.7	4.8 4.9 5.9	0.1 1.1	2.1 22.9
		THIRD TWO YEARS			FOURTH TWO YEARS		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON 200 400	3.8 -2.8 4.4	-6.6 0.6	-173.7 15.8	4.6 -3.0 2.5	-7.6 -2.1	-165.2 -45.7
GROSS BASAL AREA PAI (SQ.FT/A)	CON 200 400	3.8 2.7 4.2	-1.1 0.4	-28.9 10.5	4.7 3.8 4.9	-0.9 0.2	-19.1 4.3

INITIAL STAND CHARACTERISTICS:

AGE	63 YEARS
TREES PER ACRE	237 TREES/ACRE
BASAL AREA	138.9 SQ.FEET/ACRE
TOTAL VOLUME	3233 CU.FEET/ACRE
CCF	151.6
RELATIVE DENSITY INDEX	43.1
MEAN DIAMETER	10.3 INCHES
AVERAGE CROWN LENGTH	32.2 FEET
AVERAGE CROWN RATIO	57.7 PERCENT
SITE HEIGHT (40 TPA)	63.3 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	77.6 PERCENT
PONDEROSA PINE	22.4 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON INITIAL BASAL AREA OF 138.9 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
6-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	34.9		
	200 # N	47.9	13.0	37.2
	400 # N	32.9	-2.0	-5.7
8-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	1345		
	200 # N	1611	266.0	19.8
	400 # N	1203	-142	-10.6
8-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	44		
	200 # N	48	4	8.6
	400 # N	41	-3	-6.1
8-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	1585		
	200 # N	1621	36	2.3
	400 # N	1433	-152	-9.6
8-YEAR CHANGE IN AVERAGE DIAMETER (INCHES)	CONTROL	1.51		
	200 # N	1.85	0.34	22.5
	400 # N	1.61	0.10	6.6
8-YEAR CHANGE IN HEIGHT GROWTH (FEET)	CONTROL	8.50		
	200 # N	8.90	0.40	4.7
	400 # N	8.30	-0.20	-2.4

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		INC	RESPONSE		INC	RESPONSE	
			DIFF	%		DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	5.5			5.9		
	200	6.4	0.9	16.4	6.7	0.3	13.6
	400	5.8	0.3	5.5	5.9	0.0	0.0
GROSS BASAL AREA PAI (SQ.FT/A)	CON	5.6			5.9		
	200	6.4	0.8	14.3	6.9	1.0	16.9
	400	5.7	0.1	1.8	5.9	0.0	0.0
	TRT	THIRD TWO YEARS			FOURTH TWO YEARS		
		INC	RESPONSE		INC	RESPONSE	
			DIFF	%		DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	4.5			1.4		
	200	4.6	0.1	2.2	5.9	4.5	321.4
	400	3.3	-1.2	-26.7	1.7	0.3	21.4
GROSS BASAL AREA PAI (SQ.FT/A)	CON	4.5			5.9		
	200	4.6	0.1	2.2	6.1	0.2	3.4
	400	3.9	-0.6	-13.3	5.1	-0.8	-13.6

INITIAL STAND CHARACTERISTICS:

AGE	92 YEARS
TREES PER ACRE	182 TREES/ACRE
BASAL AREA	102.9 SQ.FEET/ACRE
TOTAL VOLUME	2695 CU.FEET/ACRE
CCF	114.2
RELATIVE DENSITY INDEX	32.2
MEAN DIAMETER	10.2 INCHES
AVERAGE CROWN LENGTH	27.9 FEET
AVERAGE CROWN RATIO	44.3 PERCENT
SITE HEIGHT (40 TPA)	76.4 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	89.8 PERCENT
PONDEROSA PINE	10.2 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
 INITIAL BASAL AREA OF 102.9 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL 200 # N 400 # N	25.7 28.1 28.3		
			2.4 3.1	9.3 12.1
8-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL 200 # N 400 # N	860.0 943.0 1029		
			83.0 169.0	9.7 19.7
8-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL 200 # N 400 # N	27 30 32		
			3 5	10.3 18.7
8-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL 200 # N 400 # N	920 987 1140		
			67 220	7.3 23.9
8-YEAR CHANGE IN AVERAGE DIAMETER (INCHES)	CONTROL 200 # N 400 # N	1.34 1.55 1.37		
			0.21 0.03	15.7 2.2
8-YEAR CHANGE IN HEIGHT GROWTH (FEET)	CONTROL 200 # N 400 # N	5.20 5.40 6.50		
			0.20 1.30	3.8 25.0

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON 200 400	3.9 4.7 4.9			4.3 4.7 3.4		
			0.8 1.0	20.5 25.0		0.4 -0.9	9.3 -20.9
GROSS BASAL AREA PAI (SQ.FT/A)	CON 200 400	3.9 4.7 5.0			4.3 4.7 4.6		
			0.8 1.1	20.5 28.2		0.4 0.3	9.3 7.0
		THIRD TWO YEARS			FOURTH TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON 200 400	1.3 2.7 3.0			3.4 2.0 2.6		
			1.4 1.7	107.7 130.3		-1.4 -0.8	-41.2 -23.5
GROSS BASAL AREA PAI (SQ.FT/A)	CON 200 400	2.6 2.7 3.2			2.9 2.9 3.3		
			0.1 0.6	3.8 23.1		0.0 0.4	0.0 13.8

INITIAL STAND CHARACTERISTICS:

AGE	79 YEARS
TREES PER ACRE	213 TREES/ACRE
BASAL AREA	143.9 SQ.FEET/ACRE
TOTAL VOLUME	4021 CU.FEET/ACRE
CCF	150.4
RELATIVE DENSITY INDEX	43.1
MEAN DIAMETER	11.2 INCHES
AVERAGE CROWN LENGTH	32.0 FEET
AVERAGE CROWN RATIO	46.2 PERCENT
SITE HEIGHT (40 TPA)	78.4 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	81.2 PERCENT
PONDEROSA PINE	18.8 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON INITIAL BASAL AREA OF 143.9 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	30.6		
	200 # N	24.6	-6.0	-19.6
	400 # N	21.7	-8.9	-29.1
8-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	1253		
	200 # N	1131	-122	-9.7
	400 # N	1026	-227	-18.1
8-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	32		
	200 # N	34	2	5.0
	400 # N	35	3	9.0
8-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	1294		
	200 # N	1345	51	3.9
	400 # N	1416	122	9.4
8-YEAR CHANGE IN AVERAGE DIAMETER (INCHES)	CONTROL	1.37		
	200 # N	1.61	0.24	17.5
	400 # N	1.34	-0.03	-2.2
8-YEAR CHANGE IN HEIGHT GROWTH (FEET)	CONTROL	6.90		
	200 # N	7.40	0.50	7.2
	400 # N	7.40	0.50	7.2

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	4.8			4.7		
	200	4.6	-0.2	-4.2	5.6	0.9	19.1
	400	5.0	0.2	4.2	5.3	0.6	12.8
GROSS BASAL AREA PAI (SQ.FT/A)	CON	4.8			4.7		
	200	5.6	0.8	16.7	5.3	0.6	12.8
	400	5.1	0.3	6.3	5.3	0.6	12.8
	TRT	THIRD TWO YEARS			FOURTH TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	3.1			2.7		
	200	1.5	-1.6	-51.6	1.7	-1.0	-37.0
	400	0.6	-2.5	-80.6	-0.7	-3.4	-125.9
GROSS BASAL AREA PAI (SQ.FT/A)	CON	3.1			3.5		
	200	2.9	-0.2	-6.5	3.2	-0.3	-8.6
	400	3.7	0.6	19.4	3.4	-0.1	-2.9

INSTALLATION 280 SMITH CREEK
 REGION: CENTRAL IDAHO OWNERSHIP: IDL
 LEGAL DESCRIPTION: T7N R5E SECTION 2 MERIDIAN: BOISE

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 INITIAL STAND CHARACTERISTICS:

AGE	65 YEARS
TREES PER ACRE	232 TREES/ACRE
BASAL AREA	128.4 SQ.FEET/ACRE
TOTAL VOLUME	3179 CU.FEET/ACRE
CCF	138.3
RELATIVE DENSITY INDEX	40.3
MEAN DIAMETER	10.2 INCHES
AVERAGE CROWN LENGTH	29.4 FEET
AVERAGE CROWN RATIO	49.5 PERCENT
SITE HEIGHT (40 TPA)	67.6 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	73.2 PERCENT
PONDEROSA PINE	26.8 PERCENT

 GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
 INITIAL BASAL AREA OF 128.4 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET	CONTROL	21.3		
BASAL AREA	200 # N	40.6	19.3	90.6
(SQ.FEET/ACRE)	400 # N	29.1	7.8	36.6
8-YEAR GROSS	CONTROL	845.0		
BASAL AREA	200 # N	1326	481.0	56.9
(SQ.FEET/ACRE)	400 # N	1140	295.0	34.9
8-YEAR NET	CONTROL	30		
TOTAL VOLUME	200 # N	45	15	50.3
(CU.FEET/ACRE)	400 # N	39	9	31.2
8-YEAR GROSS	CONTROL	1103		
TOTAL VOLUME	200 # N	1341	238	21.6
(CU.FEET/ACRE)	400 # N	1419	316	28.6
8-YEAR CHANGE	CONTROL	1.04		
IN AVERAGE DIAMETER	200 # N	1.88	0.84	80.8
(INCHES)	400 # N	1.22	0.18	17.3
8-YEAR CHANGE	CONTROL	5.40		
IN HEIGHT GROWTH	200 # N	7.00	1.60	29.6
(FEET)	400 # N	6.30	0.90	16.7

 PERIODIC ANNUAL INCREMENT:

		FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
	TRT	INC	DIFF	%	INC	DIFF	%
NET BASAL	CON	4.6			1.3		
AREA PAI	200	7.8	3.2	69.6	7.8	6.5	500.0
(SQ.FT/A)	400	6.3	1.7	37.0	6.0	4.7	361.5
GROSS BASAL	CON	4.7			4.4		
AREA PAI	200	7.4	2.7	57.4	6.6	2.2	50.0
(SQ.FT/A)	400	6.5	1.8	38.3	6.0	1.6	36.4
		THIRD TWO YEARS			FOURTH TWO YEARS		
NET BASAL	CON	2.5			2.1		
AREA PAI	200	3.5	1.0	40.0	5.4	3.3	157.1
(SQ.FT/A)	400	1.4	-1.1	-44.0	-0.2	-2.3	-109.5
GROSS BASAL	CON	2.4			3.1		
AREA PAI	200	3.9	1.5	62.5	4.5	1.4	45.2
(SQ.FT/A)	400	3.0	0.6	25.0	3.7	0.6	19.4

INITIAL STAND CHARACTERISTICS:

AGE	44 YEARS
TREES PER ACRE	478 TREES/ACRE
BASAL AREA	207.3 SQ.FEET/ACRE
TOTAL VOLUME	5307 CU.FEET/ACRE
CCF	244.4
RELATIVE DENSITY INDEX	69.2
MEAN DIAMETER	9.0 INCHES
AVERAGE CROWN LENGTH	22.2 FEET
AVERAGE CROWN RATIO	36.7 PERCENT
SITE HEIGHT (40 TPA)	74.3 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	91.1 PERCENT
GRAND FIR	4.1 PERCENT
WESTERN REDCEDAR	0.7 PERCENT
HEMLOCK	0.3 PERCENT
WESTERN LARCH	2.7 PERCENT
LOGPOLE PINE	1.1 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON INITIAL BASAL AREA OF 207.3 SQ.FEET/ACRE

	TREATMENT	INCREMENT	DIFFERENCE	% OF CONTROL
8-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	39.1		
	200 # N	35.4	-3.7	-9.5
	400 # N	31.1	-3.0	-23.5
8-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	1869		
	200 # N	1711	-158	-8.5
	400 # N	1724	-145	-7.8
8-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	44		
	200 # N	47	3	7.8
	400 # N	49	5	11.9
8-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	1957		
	200 # N	1963	6	0.3
	400 # N	2130	173	8.8
8-YEAR CHANGE IN AVERAGE DIAMETER (INCHES)	CONTROL	1.08		
	200 # N	1.41	0.33	30.6
	400 # N	1.48	0.40	37.0
8-YEAR CHANGE IN HEIGHT GROWTH (FEET)	CONTROL	7.90		
	200 # N	8.10	0.20	2.5
	400 # N	8.70	0.80	10.1

PERIODIC ANNUAL INCREMENT:

		FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
	TRT	INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	5.0			4.0		
	200	6.0	1.0	20.0	2.6	-1.4	-35.0
	400	5.3	0.3	6.0	-1.4	-5.4	-135.0
GROSS BASAL AREA PAI (SQ.FT/A)	CON	5.3			4.8		
	200	6.1	0.8	15.1	5.3	0.5	10.4
	400	5.7	0.4	7.5	5.5	0.7	14.6
		THIRD TWO YEARS			FOURTH TWO YEARS		
NET BASAL AREA PAI (SQ.FT/A)	CON	6.2			4.4		
	200	6.1	-0.1	-1.6	4.0	-0.4	-9.1
	400	6.2	0.0	0.0	5.0	0.6	13.6
GROSS BASAL AREA PAI (SQ.FT/A)	CON	6.2			5.7		
	200	6.4	0.2	3.2	5.8	0.1	1.8
	400	7.1	0.9	14.5	6.1	0.4	7.0

INITIAL STAND CHARACTERISTICS:

AGE	69 YEARS
TREES PER ACRE	313 TREES/ACRE
BASAL AREA	103.1 SQ.FEET/ACRE
TOTAL VOLUME	2342 CU.FEET/ACRE
CCF	126.6
RELATIVE DENSITY INDEX	36.9
MEAN DIAMETER	7.8 INCHES
AVERAGE CROWN LENGTH	26.5 FEET
AVERAGE CROWN RATIO	40.7 PERCENT
SITE HEIGHT (40 TPA)	66.1 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	88.3 PERCENT
WESTERN LARCH	6.3 PERCENT
PONDEROSA PINE	4.8 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON INITIAL BASAL AREA OF 103.1 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET	CONTROL	31.4		
BASAL AREA	200 # N	41.2	9.8	31.2
(SQ.FEET/ACRE)	400 # N	39.7	8.3	26.4
8-YEAR GROSS	CONTROL	993.0		
BASAL AREA	200 # N	1278	285.0	28.7
(SQ.FEET/ACRE)	400 # N	1235	242.0	24.4
8-YEAR NET	CONTROL	32		
TOTAL VOLUME	200 # N	43	10	32.1
(CU.FEET/ACRE)	400 # N	43	10	31.2
8-YEAR GROSS	CONTROL	1020		
TOTAL VOLUME	200 # N	1271	251	24.6
(CU.FEET/ACRE)	400 # N	1315	295	29.9
8-YEAR CHANGE	CONTROL	1.10		
IN AVERAGE DIAMETER	200 # N	1.67	0.57	51.8
(INCHES)	400 # N	1.37	0.27	24.5
8-YEAR CHANGE	CONTROL	6.20		
IN HEIGHT GROWTH	200 # N	8.30	2.10	33.9
(FEET)	400 # N	7.70	1.50	24.2

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL	CON	5.8			3.3		
AREA PAI	200	9.0	3.2	55.2	5.2	1.9	57.6
(SQ.FT/A)	400	8.8	3.0	51.7	4.8	1.5	45.5
GROSS BASAL	CON	5.8			3.3		
AREA PAI	200	8.8	3.0	51.7	5.0	1.7	51.5
(SQ.FT/A)	400	8.9	3.1	53.4	4.8	1.5	45.5
		THIRD TWO YEARS			FOURTH TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL	CON	3.4			3.1		
AREA PAI	200	3.9	0.5	14.7	4.7	1.6	51.6
(SQ.FT/A)	400	2.9	-0.5	-14.7	2.9	-0.2	-6.5
GROSS BASAL	CON	3.4			3.6		
AREA PAI	200	4.1	0.7	20.6	3.7	0.1	2.8
(SQ.FT/A)	400	4.1	0.7	20.6	3.4	-0.2	-5.6

INITIAL STAND CHARACTERISTICS:

AGE	75 YEARS
TREES PER ACRE	263 TREES/ACRE
BASAL AREA	97.5 SQ.FEET/ACRE
TOTAL VOLUME	2118 CU.FEET/ACRE
CCF	119.7
RELATIVE DENSITY INDEX	34.6
MEAN DIAMETER	7.9 INCHES
AVERAGE CROWN LENGTH	26.6 FEET
AVERAGE CROWN RATIO	53.0 PERCENT
SITE HEIGHT (40 TPA)	60.9 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	88.6 PERCENT
WESTERN LARCH	4.7 PERCENT
LODGEPOLE PINE	5.9 PERCENT
PONDEROSA PINE	0.8 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON INITIAL BASAL AREA OF 97.5 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	30.6		
	200 # N	46.6	16.0	52.3
	400 # N	55.1	24.5	80.1
8-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	911.0		
	200 # N	1308	397.0	43.6
	400 # N	1492	581.0	63.8
8-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	31		
	200 # N	47	15	48.9
	400 # N	57	26	91.5
8-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	930		
	200 # N	1309	379	40.8
	400 # N	1524	594	63.9
8-YEAR CHANGE IN AVERAGE DIAMETER (INCHES)	CONTROL	1.15		
	200 # N	1.74	0.59	51.3
	400 # N	2.17	1.02	88.7
8-YEAR CHANGE IN HEIGHT GROWTH (FEET)	CONTROL	5.50		
	200 # N	7.70	2.20	40.0
	400 # N	8.90	3.40	61.8

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	5.4			3.5		
	200	8.4	3.0	55.6	5.6	2.1	60.0
	400	10.8	5.4	100.0	7.5	4.0	114.3
GROSS BASAL AREA PAI (SQ.FT/A)	CON	5.4			3.5		
	200	8.4	3.0	55.6	5.7	2.2	62.9
	400	10.7	5.3	98.1	7.5	4.0	114.3
	TRT	THIRD TWO YEARS			FOURTH TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	3.3			3.0		
	200	4.3	1.0	30.3	4.9	1.9	63.3
	400	5.0	2.3	69.7	4.1	1.1	36.7
GROSS BASAL AREA PAI (SQ.FT/A)	CON	3.3			3.4		
	200	4.3	1.0	30.3	4.9	1.5	44.1
	400	5.5	2.2	66.7	4.8	1.4	41.2

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AGE	75	YEARS
TREES PER ACRE	155	TREES/ACRE
BASAL AREA	138.4	SQ. FEET/ACRE
TOTAL VOLUME	3809	CU. FEET/ACRE
CCF	140.5	
RELATIVE DENSITY INDEX	38.3	
MEAN DIAMETER	12.8	INCHES
AVERAGE CROWN LENGTH	29.4	FEET
AVERAGE CROWN RATIO	42.3	PERCENT
SITE HEIGHT (40 TPA)	75.8	FEET
SPECIES COMPOSITION (% OF TOTAL BA)		
DOUGLAS-FIR	97.9	PERCENT
PONDEROSA PINE	2.1	PERCENT

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON INITIAL BASAL AREA OF 138.4 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET BASAL AREA (SQ. FEET/ACRE)	CONTROL	20.6		
	200 # N	22.2	1.6	7.8
	400 # N	18.3	-2.3	-11.2
8-YEAR GROSS BASAL AREA (SQ. FEET/ACRE)	CONTROL	809.0		
	200 # N	845.0	36.0	4.4
	400 # N	706.0	-103	-12.7
8-YEAR NET TOTAL VOLUME (CU. FEET/ACRE)	CONTROL	23		
	200 # N	23	1	3.5
	400 # N	20	-2	-9.7
8-YEAR GROSS TOTAL VOLUME (CU. FEET/ACRE)	CONTROL	881		
	200 # N	822	-59	-6.7
	400 # N	789	-92	-10.4
8-YEAR CHANGE IN AVERAGE DIAMETER (INCHES)	CONTROL	0.96		
	200 # N	1.09	0.13	13.5
	400 # N	0.80	-0.16	-16.7
8-YEAR CHANGE IN HEIGHT GROWTH (FEET)	CONTROL	4.60		
	200 # N	4.90	0.30	6.5
	400 # N	4.50	-0.10	-2.2

		FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
	TRT	INC	DIFF	%	INC	DIFF	%
NET BASAL	CON	3.2			2.2		
AREA PAI	200	3.9	0.7	21.9	3.8	1.6	72.7
(SQ.FT/A)	400	2.6	-0.6	-18.8	2.6	0.4	18.2
GROSS BASAL	CON	3.3			2.2		
AREA PAI	200	3.6	0.3	9.1	3.0	0.8	36.4
(SQ.FT/A)	400	2.7	-0.6	-18.2	2.6	0.4	18.2
		THIRD TWO YEARS			FOURTH TWO YEARS		
NET BASAL	CON	2.5			2.2		
AREA PAI	200	2.3	-0.2	-8.0	4.0	1.8	81.8
(SQ.FT/A)	400	1.7	-0.8	-32.0	1.5	-0.7	-31.8
GROSS BASAL	CON	2.5			3.1		
AREA PAI	200	2.6	0.1	4.0	2.7	-0.4	-12.9
(SQ.FT/A)	400	2.2	-0.3	-12.0	2.6	-0.5	-16.1

INITIAL STAND CHARACTERISTICS:

AGE	72 YEARS
TREES PER ACRE	155 TREES/ACRE
BASAL AREA	118.4 SQ.FEET/ACRE
TOTAL VOLUME	2930 CU.FEET/ACRE
CCF	128.3
RELATIVE DENSITY INDEX	34.4
MEAN DIAMETER	11.9 INCHES
AVERAGE CROWN LENGTH	29.1 FEET
AVERAGE CROWN RATIO	45.2 PERCENT
SITE HEIGHT (40 TPA)	71.2 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	98.4 PERCENT
PONDEROSA PINE	1.6 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON INITIAL BASAL AREA OF 118.4 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	13.7		
	200 # N	19.8	6.1	44.5
	400 # N	18.9	5.2	38.0
8-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	583.0		
	200 # N	695.0	112.0	19.2
	400 # N	710.0	127.0	21.8
8-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	16		
	200 # N	20	5	30.8
	400 # N	23	7	44.2
8-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	637		
	200 # N	684	47	7.4
	400 # N	783	146	22.9
8-YEAR CHANGE IN AVERAGE DIAMETER (INCHES)	CONTROL	0.73		
	200 # N	0.94	0.21	28.8
	400 # N	1.29	0.56	76.7
8-YEAR CHANGE IN HEIGHT GROWTH (FEET)	CONTROL	4.30		
	200 # N	5.40	1.10	25.6
	400 # N	5.60	1.30	30.2

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	1.5			1.9		
	200	2.9	1.4	93.3	3.4	1.5	78.9
	400	3.0	1.5	100.0	1.1	-0.8	-42.1
GROSS BASAL AREA PAI (SQ.FT/A)	CON	1.6			1.9		
	200	2.8	1.2	75.0	3.1	1.2	63.2
	400	2.9	1.3	81.3	3.1	1.2	63.2
	TRT	THIRD TWO YEARS			FOURTH TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	1.8			1.4		
	200	1.9	0.1	5.6	3.0	1.6	114.3
	400	2.6	0.8	44.4	3.0	1.6	114.3
GROSS BASAL AREA PAI (SQ.FT/A)	CON	1.8			2.3		
	200	2.0	0.2	11.1	2.4	0.1	4.3
	400	2.5	0.7	38.9	2.7	0.4	17.4

 INITIAL STAND CHARACTERISTICS:

AGE	83 YEARS
TREES PER ACRE	240 TREES/ACRE
BASAL AREA	212.0 SQ.FEET/ACRE
TOTAL VOLUME	6694 CU.FEET/ACRE
CCF	220.2
RELATIVE DENSITY INDEX	55.4
MEAN DIAMETER	12.8 INCHES
AVERAGE CROWN LENGTH	27.3 FEET
AVERAGE CROWN RATIO	32.8 PERCENT
SITE HEIGHT (40 TPA)	93.7 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	100.0 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
 INITIAL BASAL AREA OF 212.0 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET	CONTROL	32.4		
BASAL AREA	200 # N	38.4	6.0	18.5
(SQ.FEET/ACRE)	400 # N	30.5	-1.9	-5.9
8-YEAR GROSS	CONTROL	1583		
BASAL AREA	200 # N	1866	283.0	17.9
(SQ.FEET/ACRE)	400 # N	1696	113.0	7.1
8-YEAR NET	CONTROL	34		
TOTAL VOLUME	200 # N	41	7	20.3
(CU.FEET/ACRE)	400 # N	37	3	9.1
8-YEAR GROSS	CONTROL	1617		
TOTAL VOLUME	200 # N	1802	185	11.4
(CU.FEET/ACRE)	400 # N	1953	336	20.8
8-YEAR CHANGE	CONTROL	1.10		
IN AVERAGE DIAMETER	200 # N	1.31	0.21	19.1
(INCHES)	400 # N	0.42	-0.68	-61.8
8-YEAR CHANGE	CONTROL	6.60		
IN HEIGHT GROWTH	200 # N	8.00	1.40	21.2
(FEET)	400 # N	6.90	0.30	4.5

 PERIODIC ANNUAL INCREMENT:

		FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
	TRT	INC	DIFF	%	INC	DIFF	%
NET BASAL	CON	4.1			4.6		
AREA PAI	200	6.7	2.6	63.4	7.2	2.6	56.5
(SQ.FT/A)	400	4.1	0.0	0.0	4.4	-0.2	-4.3
GROSS BASAL	CON	4.0			4.6		
AREA PAI	200	6.2	2.2	55.0	5.3	0.7	15.2
(SQ.FT/A)	400	4.7	0.7	17.5	4.3	-0.3	-6.5
		THIRD TWO YEARS			FOURTH TWO YEARS		
NET BASAL	CON	4.2			3.4		
AREA PAI	200	4.3	0.1	2.4	7.3	3.9	114.7
(SQ.FT/A)	400	2.6	-1.6	-38.1	1.5	-1.9	-55.9
GROSS BASAL	CON	4.3			4.2		
AREA PAI	200	4.8	0.5	11.6	4.4	0.2	4.8
(SQ.FT/A)	400	4.1	-0.2	-4.7	5.2	1.0	23.8

INITIAL STAND CHARACTERISTICS:

AGE	57 YEARS
TREES PER ACRE	433 TREES/ACRE
BASAL AREA	174.0 SQ.FEET/ACRE
TOTAL VOLUME	4486 CU.FEET/ACRE
CCF	209.2
RELATIVE DENSITY INDEX	59.3
MEAN DIAMETER	8.6 INCHES
AVERAGE CROWN LENGTH	22.6 FEET
AVERAGE CROWN RATIO	35.8 PERCENT
SITE HEIGHT (40 TPA)	76.1 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	82.1 PERCENT
GRAND FIR	5.6 PERCENT
WESTERN LARCH	11.5 PERCENT
LODGEPOLE PINE	0.3 PERCENT
PONDEROSA PINE	0.5 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON INITIAL BASAL AREA OF 174.0 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	27.4		
	200 # N	35.7	8.3	30.3
	400 # N	41.0	13.6	49.6
8-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	1280		
	200 # N	1545	265.0	20.7
	400 # N	1667	387.0	30.2
8-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	33		
	200 # N	42	9	27.4
	400 # N	48	15	44.6
8-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	1434		
	200 # N	1778	344	24.0
	400 # N	1840	406	28.3
8-YEAR CHANGE IN AVERAGE DIAMETER (INCHES)	CONTROL	0.82		
	200 # N	0.92	0.10	12.2
	400 # N	1.68	0.86	104.9
8-YEAR CHANGE IN HEIGHT GROWTH (FEET)	CONTROL	7.50		
	200 # N	7.80	0.30	4.0
	400 # N	8.80	1.30	17.3

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	3.7			3.7		
	200	5.8	2.1	56.8	4.1	0.4	10.8
	400	7.9	4.2	113.5	6.1	2.4	64.9
GROSS BASAL AREA PAI (SQ.FT/A)	CON	3.7			3.7		
	200	6.1	2.4	64.9	5.2	1.5	40.5
	400	7.6	3.9	105.4	6.1	2.4	64.9
	TRT	THIRD TWO YEARS			FOURTH TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	4.1			2.1		
	200	4.7	0.6	14.6	-0.5	-2.6	-123.8
	400	6.1	2.0	48.8	2.0	-0.1	-4.9
GROSS BASAL AREA PAI (SQ.FT/A)	CON	4.5			4.6		
	200	5.1	0.6	13.3	4.6	0.0	0.0
	400	5.8	1.3	28.9	4.7	0.1	2.2

 INITIAL STAND CHARACTERISTICS:

AGE	54 YEARS
TREES PER ACRE	310 TREES/ACRE
BASAL AREA	256.2 SQ.FEET/ACRE
TOTAL VOLUME	7987 CU.FEET/ACRE
CCF	253.6
RELATIVE DENSITY INDEX	72.9
MEAN DIAMETER	12.4 INCHES
AVERAGE CROWN LENGTH	29.6 FEET
AVERAGE CROWN RATIO	38.5 PERCENT
SITE HEIGHT (40 TPA)	91.8 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	84.3 PERCENT
GRAND FIR	1.8 PERCENT
WESTERN REDCEDAR	0.5 PERCENT
WESTERN LARCH	3.9 PERCENT
PUNDEROSA PINE	9.5 PERCENT

 GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
 INITIAL BASAL AREA OF 256.2 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	36.4		
	200 # N	46.7	10.3	28.3
	400 # N	58.9	22.5	61.8
8-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	2072		
	200 # N	2321	249.0	12.0
	400 # N	2914	842.0	40.6
8-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	41		
	200 # N	48	7	17.9
	400 # N	54	13	32.2
8-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	2199		
	200 # N	2554	355	16.1
	400 # N	2667	468	21.3
8-YEAR CHANGE IN AVERAGE DIAMETER (INCHES)	CONTROL	0.98		
	200 # N	1.29	0.31	31.6
	400 # N	2.10	1.12	114.3
8-YEAR CHANGE IN HEIGHT GROWTH (FEET)	CONTROL	6.30		
	200 # N	7.90	1.60	25.4
	400 # N	9.40	3.10	49.2

 PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	6.2			4.5		
	200	6.7	0.5	8.1	1.6	-2.9	-64.4
	400	9.9	3.7	59.7	7.1	2.6	57.8
GROSS BASAL AREA PAI (SQ.FT/A)	CON	6.2			4.5		
	200	7.5	1.3	21.0	5.1	0.6	13.3
	400	9.2	3.0	48.4	7.1	2.6	57.8
		THIRD TWO YEARS			FOURTH TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	2.5			4.9		
	200	2.7	0.2	8.0	2.7	-2.2	-44.9
	400	6.6	4.1	164.0	8.9	4.0	81.6
GROSS BASAL AREA PAI (SQ.FT/A)	CON	4.0			5.5		
	200	4.0	0.0	0.0	7.1	1.6	29.1
	400	5.0	1.0	25.0	6.0	0.5	9.1

INITIAL STAND CHARACTERISTICS:

AGE	51 YEARS
TREES PER ACRE	430 TREES/ACRE
BASAL AREA	181.8 SQ.FEET/ACRE
TOTAL VOLUME	4744 CU.FEET/ACRE
CCF	218.5
RELATIVE DENSITY INDEX	61.2
MEAN DIAMETER	8.8 INCHES
AVERAGE CROWN LENGTH	25.8 FEET
AVERAGE CROWN RATIO	42.0 PERCENT
SITE HEIGHT (40 TPA)	77.1 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	99.3 PERCENT
GRAND FIR	0.5 PERCENT
WESTERN LARCH	0.2 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON INITIAL BASAL AREA OF 181.8 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	39.5		
	200 # N	34.1	-5.4	-13.7
	400 # N	40.9	1.4	3.5
8-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	1710		
	200 # N	1602	-108	-6.3
	400 # N	1612	-98.0	-5.7
8-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	46		
	200 # N	39	-7	-15.4
	400 # N	50	4	8.5
8-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	1826		
	200 # N	1877	51	2.8
	400 # N	1850	24	1.3
8-YEAR CHANGE IN AVERAGE DIAMETER (INCHES)	CONTROL	1.50		
	200 # N	0.88	-0.62	-41.3
	400 # N	1.76	0.26	17.3
8-YEAR CHANGE IN HEIGHT GROWTH (FEET)	CONTROL	8.30		
	200 # N	6.90	-1.40	-16.9
	400 # N	8.50	0.20	2.4

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	5.9			3.8		
	200	5.3	-0.6	-10.2	1.4	-2.4	-63.2
	400	9.2	3.3	55.9	6.0	2.2	57.9
GROSS BASAL AREA PAI (SQ.FT/A)	CON	7.5			5.9		
	200	6.7	-0.8	-10.7	4.3	-1.5	-27.1
	400	9.1	1.6	21.3	6.0	0.1	1.7
	TRT	THIRD TWO YEARS			FOURTH TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	4.5			5.8		
	200	1.4	-3.1	-68.9	1.4	-4.4	-75.9
	400	4.0	-0.5	-11.1	2.9	-2.9	-50.0
GROSS BASAL AREA PAI (SQ.FT/A)	CON	4.9			4.9		
	200	3.5	-1.4	-28.6	4.7	-0.2	-4.1
	400	5.0	0.1	2.0	5.1	0.2	4.1

INITIAL STAND CHARACTERISTICS:

AGE	75 YEARS
TREES PER ACRE	487 TREES/ACRE
BASAL AREA	207.0 SQ.FEET/ACRE
TOTAL VOLUME	3590 CU.FEET/ACRE
CCF	247.0
RELATIVE DENSITY INDEX	69.5
MEAN DIAMETER	8.9 INCHES
AVERAGE CROWN LENGTH	20.2 FEET
AVERAGE CROWN RATIO	31.2 PERCENT
SITE HEIGHT (40 TPA)	79.1 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	96.3 PERCENT
GRAND FIR	0.6 PERCENT
WESTERN LARCH	2.4 PERCENT
LODGEPOLE PINE	0.3 PERCENT
PONDEROSA PINE	0.5 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
 INITIAL BASAL AREA OF 207.0 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
8-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	8.6		
	200 # N	19.7	11.1	129.1
	400 # N	-22.0	-30.6	-355.8
8-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	579.0		
	200 # N	929.0	350.0	60.4
	400 # N	-257	-836	-144.4
8-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	37		
	200 # N	30	-7	-17.8
	400 # N	36	-1	-2.2
8-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	1315		
	200 # N	1286	-29	-2.2
	400 # N	1257	-58	-4.4
8-YEAR CHANGE IN AVERAGE DIAMETER (INCHES)	CONTROL	1.36		
	200 # N	0.79	-0.57	-41.9
	400 # N	1.09	-0.27	-19.9
8-YEAR CHANGE IN HEIGHT GROWTH (FEET)	CONTROL	5.50		
	200 # N	4.30	-1.20	-21.8
	400 # N	4.90	-0.60	-10.9

PERIODIC ANNUAL INCREMENT:

	TRT	FIRST TWO YEARS			SECOND TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	5.5			5.5		
	200	3.8	-1.7	-30.9	-2.9	-3.2	-52.5
	400	5.7	0.2	3.6	-10.7	-4.6	-75.4
GROSS BASAL AREA PAI (SQ.FT/A)	CON	5.2			5.2		
	200	4.2	-1.0	-19.2	4.2	-1.0	-19.2
	400	6.0	0.8	15.4	4.6	-0.6	-11.5
	TRT	THIRD TWO YEARS			FOURTH TWO YEARS		
		RESPONSE			RESPONSE		
		INC	DIFF	%	INC	DIFF	%
NET BASAL AREA PAI (SQ.FT/A)	CON	0.5			5.0		
	200	2.5	2.0	400.0	0.4	-4.6	-92.0
	400	-8.6	-9.1	-1820.0	2.7	-2.3	-46.0
GROSS BASAL AREA PAI (SQ.FT/A)	CON	3.8			4.3		
	200	2.6	-1.2	-31.6	3.7	-0.8	-14.0
	400	3.5	-0.3	-7.9	3.8	-0.5	-11.6

SECTION V

**Summary Characteristics
for all of the Douglas-fir Installations**

PLCT SUMMARY REPORT

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INSTALLATION 103 GOLD CREEK

REGION: CENTRAL IDAHO

LEGAL DESCRIPTION: T16N R4E SECTION 35

OWNERSHIP: LOISE CASCADE

MERIDIAN: FOISE

TREATMENT	PLOT NUMBER							
	1	2	3	4	5	6	7	8
	200 F	CONT	N+S F	400 F	N+S S	200 S	CONT	400 S
MEASUREMENTAL CHARACTERISTICS:								
AT TIME OF TREATMENT (1980)	STAND AGE = 61							
LIVE TREES PER ACRE	140	200	140	150	200	150	170	160
LIVE BASAL AREA (SQ.FT/A)	67.1	110.9	126.7	81.7	98.2	102.4	117.5	82.2
LIVE TOTAL VOLUME (CU.FT/A)	1400	2596	3592	1894	1842	2274	2400	1556
CROWN COMPETITION FACTOR	76	127	122	98	111	110	119	93
RELATIVE DENSITY INDEX	21.9	34.9	35.3	25.8	31.9	30.6	35.0	26.4
MEAN DIAMETER (IN)	9.4	10.1	12.9	10.0	9.5	11.2	11.3	9.7
SITE HEIGHT (FEET)	58.4	71.3	90.5	63.9	54.1	65.4	59.7	52.6
SPECIES COMPOSITION (% OF BA)								
DOUGLAS-FIR	100.0	95.2	97.3	84.9	80.3	91.1	66.1	86.8
GRAND FIR	0.0	0.0	0.0	15.1	0.0	0.0	0.0	0.0
LODGEPOLE PINE	0.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0
PCNDEMOSA PINE	0.0	0.0	2.7	0.0	19.8	8.9	33.9	13.2
3 YEARS AFTER TREATMENT (1983)								
LIVE TREES PER ACRE	140	200	140	140	200	150	170	160
LIVE BASAL AREA (SQ.FT/A)	77.1	123.4	144.0	88.8	113.5	119.0	132.0	96.7
CROWN COMPETITION FACTOR	86	139	135	103	125	123	130	108
RELATIVE DENSITY INDEX	24.3	37.8	38.9	27.0	35.5	34.3	38.2	29.8
MEAN DIAMETER (IN)	10.0	10.6	13.7	10.8	10.2	12.1	11.9	10.5
DEAD TREES PER ACRE	0	0	0	10	0	0	0	0
DEAD BASAL AREA (SQ.FT/A)	0.0	0.0	0.0	3.1	0.0	0.0	0.0	0.0
4 YEARS AFTER TREATMENT (1984)								
LIVE TREES PER ACRE	140	200	140	140	200	150	170	160
LIVE BASAL AREA (SQ.FT/A)	60.0	127.0	148.6	92.1	117.9	123.6	136.4	100.0
LIVE TOTAL VOLUME (CU.FT/A)	1728	3088	4323	2203	2378	2916	2979	2001
CROWN COMPETITION FACTOR	89	142	139	106	128	127	134	111
RELATIVE DENSITY INDEX	25.0	38.6	39.8	27.8	36.6	35.3	39.2	30.5
MEAN DIAMETER (IN)	10.2	10.8	13.9	11.0	10.4	12.3	12.1	10.7
SITE HEIGHT (FEET)	61.3	74.2	93.2	66.0	55.2	70.5	63.6	56.5
DEAD TREES PER ACRE	0	0	0	10	0	0	0	0
DEAD BASAL AREA (SQ.FT/A)	0.0	0.0	0.0	3.1	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU.FT/A)	0	0	0	71	0	0	0	0
6 YEARS AFTER TREATMENT (1986)								
LIVE TREES PER ACRE	140	200	140	140	200	150	170	160
LIVE BASAL AREA (SQ.FT/A)	84.8	133.4	156.1	98.3	125.7	131.9	144.6	106.2
LIVE TOTAL VOLUME (CU.FT/A)	1863	3304	4604	2383	2636	3216	3265	2194
CROWN COMPETITION FACTOR	93	147	144	111	134	134	141	117
RELATIVE DENSITY INDEX	26.1	40.1	41.3	29.2	38.4	37.0	40.9	32.0
MEAN DIAMETER (IN)	10.5	11.1	14.3	11.3	10.7	12.7	12.5	11.0
SITE HEIGHT (FEET)	62.7	75.9	94.6	67.2	57.6	73.3	65.6	58.4
DEAD TREES PER ACRE	0	0	0	10	0	0	0	0
DEAD BASAL AREA (SQ.FT/A)	0.0	0.0	0.0	3.1	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU.FT/A)	0	0	0	71	0	0	0	0
8 YEARS AFTER TREATMENT (1988)								
LIVE TREES PER ACRE	140	200	130	140	200	150	170	150
LIVE BASAL AREA (SQ.FT/A)	90.5	139.0	162.4	104.1	133.6	139.3	152.8	109.8
LIVE TOTAL VOLUME (CU.FT/A)	2034	3499	4866	2570	2887	3488	3563	2362
CROWN COMPETITION FACTOR	98	151	148	115	142	140	146	118
RELATIVE DENSITY INDEX	27.4	41.4	41.8	30.5	40.2	38.6	42.6	32.3
MEAN DIAMETER (IN)	10.9	11.3	15.1	11.7	11.1	13.0	12.8	11.6
SITE HEIGHT (FEET)	64.3	77.2	95.8	68.2	59.6	75.6	67.5	60.3
DEAD TREES PER ACRE	0	0	10	10	0	0	0	10
DEAD BASAL AREA (SQ.FT/A)	0.0	0.0	0.9	3.1	0.0	0.0	0.0	4.5
DEAD TOTAL VOLUME (CU.FT/A)	0	0	13	71	0	0	0	38

PLCT SUMMARY REPORT

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INSTALLATION 104 DAVIS CREEK
REGION: NORTHEAST OREGON
LEGAL DESCRIPTION: T1N R45E SECTION 4

OWNERSHIP: BOISE CASCADE
MERIDIAN: WILLAMETTE

TREATMENT	PLCT NUMBER							
	1	2	3	4	5	6	7	8
	N+S S	400 S	200 S	CCNT	400 F	N+S F	200 F	CONT
MEASUREMENTAL CHARACTERISTICS:								
AT TIME OF TREATMENT (1980)	STAND AGE = 42							
LIVE TREES PER ACRE	220	210	160	153	190	150	190	140
LIVE BASAL AREA (SQ.FT/A)	85.4	81.9	74.9	77.6	91.3	77.1	73.1	83.8
LIVE TOTAL VOLUME (CU.FT/A)	1680	1655	1429	1501	1833	1411	1430	1640
CROWN COMPETITION FACTOR	92	95	79	86	99	88	82	86
RELATIVE DENSITY INDEX	29.4	28.2	24.6	25.0	29.8	26.3	25.2	25.9
MEAN DIAMETER (IN)	8.4	8.4	9.3	9.6	9.4	8.6	8.4	10.5
SITE HEIGHT (FEET)	55.4	54.9	55.2	51.5	55.6	54.8	57.8	52.3
SPECIES COMPOSITION (% OF BA)								
DOUGLAS-FIR	56.4	77.0	58.2	69.8	66.7	77.6	69.8	66.5
WESTERN LARCH	42.7	17.7	31.3	21.5	33.3	13.8	28.3	4.1
PONDEROSA PINE	0.9	5.4	10.5	8.6	0.0	8.6	1.8	29.4
3 YEARS AFTER TREATMENT (1983)								
LIVE TREES PER ACRE	220	210	160	153	190	150	190	140
LIVE BASAL AREA (SQ.FT/A)	98.2	97.6	86.7	89.0	106.1	90.7	86.6	98.5
CROWN COMPETITION FACTOR	106	111	89	96	111	104	98	96
RELATIVE DENSITY INDEX	32.6	32.1	27.5	27.7	33.3	29.7	28.6	29.2
MEAN DIAMETER (IN)	9.0	9.2	10.0	10.3	10.1	9.4	9.1	11.4
DEAD TREES PER ACRE	0	0	0	0	0	0	0	0
DEAD BASAL AREA (SQ.FT/A)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4 YEARS AFTER TREATMENT (1984)								
LIVE TREES PER ACRE	220	210	160	153	190	150	190	140
LIVE BASAL AREA (SQ.FT/A)	102.8	103.0	90.9	92.9	110.7	94.9	90.9	102.5
LIVE TOTAL VOLUME (CU.FT/A)	2185	2238	1886	1935	2396	1889	1926	2203
CROWN COMPETITION FACTOR	110	117	93	99	116	107	102	99
RELATIVE DENSITY INDEX	33.8	33.4	28.4	28.6	34.4	30.7	29.7	30.1
MEAN DIAMETER (IN)	9.3	9.5	10.2	10.5	10.3	9.6	9.4	11.6
SITE HEIGHT (FEET)	60.2	60.6	60.3	56.2	60.6	60.4	62.3	52.1
DEAD TREES PER ACRE	0	0	0	0	0	0	0	0
DEAD BASAL AREA (SQ.FT/A)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU.FT/A)	0	0	0	0	0	0	0	0
6 YEARS AFTER TREATMENT (1986)								
LIVE TREES PER ACRE	220	210	160	153	190	150	190	140
LIVE BASAL AREA (SQ.FT/A)	111.1	112.6	98.3	100.9	118.8	102.4	98.1	111.0
LIVE TOTAL VOLUME (CU.FT/A)	2429	2522	2114	2166	2650	2105	2134	2475
CROWN COMPETITION FACTOR	119	126	98	105	123	114	109	106
RELATIVE DENSITY INDEX	35.8	35.8	30.2	30.4	36.3	32.5	31.4	32.0
MEAN DIAMETER (IN)	9.6	9.9	10.6	11.0	10.7	9.9	9.7	12.1
SITE HEIGHT (FEET)	62.3	62.7	62.9	58.3	62.9	62.5	63.8	60.7
DEAD TREES PER ACRE	0	0	0	0	0	0	0	0
DEAD BASAL AREA (SQ.FT/A)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU.FT/A)	0	0	0	0	0	0	0	0
8 YEARS AFTER TREATMENT (1988)								
LIVE TREES PER ACRE	220	210	160	153	190	150	190	140
LIVE BASAL AREA (SQ.FT/A)	116.6	118.9	104.2	106.7	124.7	107.9	103.9	117.8
LIVE TOTAL VOLUME (CU.FT/A)	2635	2752	2301	2366	2859	2297	2319	2711
CROWN COMPETITION FACTOR	123	132	103	109	128	119	113	111
RELATIVE DENSITY INDEX	37.1	37.2	31.5	31.8	37.7	33.8	32.8	33.4
MEAN DIAMETER (IN)	9.9	10.2	10.9	11.3	11.0	10.2	10.0	12.4
SITE HEIGHT (FEET)	64.6	65.5	64.8	60.2	65.0	64.7	65.9	62.7
DEAD TREES PER ACRE	0	0	0	0	0	0	0	0
DEAD BASAL AREA (SQ.FT/A)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU.FT/A)	0	0	0	0	0	0	0	0

PLCT SUMMARY REPORT

INSTALLATION 105 TEAMAWAY RIVER
 REGION: CENTRAL WASHINGTON
 LEGAL DESCRIPTION: T21N R15E SECTION 21

OWNERSHIP: POISE CASCADE
 MERIDIAN: WILLAMETTE

TREATMENT	PLCT NUMBER							
	1	2	3	4	5	6	7	8
	200 F	CCNT	N+S F	400 F	200 S	N+S S	400 S	CONT
MENSURATIONAL CHARACTERISTICS:								
AT TIME OF TREATMENT (1980)	STAND AGE = 83							
LIVE TREES PER ACRE	140	140	160	170	210	170	220	210
LIVE BASAL AREA (SQ. FT/A)	162.8	140.8	170.4	125.9	161.7	149.8	142.0	176.2
LIVE TOTAL VOLUME (CU. FT/A)	5605	4621	5731	3942	4704	4659	4251	5264
CROWN COMPETITION FACTOR	155	140	165	133	172	150	154	180
RELATIVE DENSITY INDEX	42.6	38.2	45.6	36.9	46.9	42.0	43.0	50.0
MEAN DIAMETER (IN)	14.6	13.6	14.0	11.6	11.9	12.7	10.9	12.4
SITE HEIGHT (FEET)	93.1	93.4	97.9	89.3	83.5	83.2	85.9	92.0
SPECIES COMPOSITION (% OF BA)								
DOUGLAS-FIR	86.4	90.7	84.3	89.2	85.7	72.8	67.7	70.9
GRAND FIR	3.5	0.0	4.7	4.7	0.0	3.6	3.3	2.8
WESTERN LARCH	0.0	0.0	7.5	6.1	14.3	0.0	4.3	26.3
LODGEPOLE PINE	0.0	0.0	0.0	0.0	0.0	0.0	3.8	0.0
PCNDEROSA PINE	10.1	9.3	3.5	0.0	0.0	23.7	21.0	0.0
3 YEARS AFTER TREATMENT (1983)								
LIVE TREES PER ACRE	140	140	160	150	210	170	220	210
LIVE BASAL AREA (SQ. FT/A)	177.9	150.6	185.1	130.9	173.8	162.9	155.5	186.7
CROWN COMPETITION FACTOR	166	147	176	133	182	160	166	189
RELATIVE DENSITY INDEX	45.5	40.2	48.5	36.8	49.5	44.7	46.1	52.3
MEAN DIAMETER (IN)	15.3	14.0	14.6	12.6	12.3	13.3	11.4	12.8
DEAD TREES PER ACRE	0	0	0	20	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	11.2	0.0	0.0	0.0	0.0
4 YEARS AFTER TREATMENT (1984)								
LIVE TREES PER ACRE	140	140	160	150	210	170	220	210
LIVE BASAL AREA (SQ. FT/A)	184.7	155.3	191.4	138.2	180.4	163.7	163.7	192.5
LIVE TOTAL VOLUME (CU. FT/A)	6586	5189	6622	4476	5382	5451	5141	5854
CROWN COMPETITION FACTOR	171	150	180	138	188	166	171	193
RELATIVE DENSITY INDEX	46.8	41.1	49.7	38.3	50.9	46.1	47.9	53.5
MEAN DIAMETER (IN)	15.5	14.3	14.8	13.0	12.5	13.5	11.7	13.0
SITE HEIGHT (FEET)	102.0	95.8	101.7	94.4	86.5	86.0	89.8	94.5
DEAD TREES PER ACRE	0	0	0	20	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	11.2	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	356	0	0	0	0
6 YEARS AFTER TREATMENT (1986)								
LIVE TREES PER ACRE	140	140	160	150	210	170	220	210
LIVE BASAL AREA (SQ. FT/A)	193.8	162.4	199.5	149.4	189.0	179.0	174.4	200.9
LIVE TOTAL VOLUME (CU. FT/A)	7025	5494	6980	4908	5711	5860	5598	6160
CROWN COMPETITION FACTOR	178	155	184	146	194	172	179	199
RELATIVE DENSITY INDEX	48.5	42.5	51.3	40.6	52.7	48.0	50.2	55.2
MEAN DIAMETER (IN)	15.9	14.6	15.1	13.5	12.8	13.9	12.1	13.2
SITE HEIGHT (FEET)	103.9	97.3	103.2	96.5	88.0	87.5	91.5	95.6
DEAD TREES PER ACRE	0	0	0	20	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	11.2	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	356	0	0	0	0
8 YEARS AFTER TREATMENT (1988)								
LIVE TREES PER ACRE	130	140	160	150	210	170	220	210
LIVE BASAL AREA (SQ. FT/A)	195.5	171.1	209.1	161.7	199.5	189.6	185.5	210.9
LIVE TOTAL VOLUME (CU. FT/A)	7203	5890	7404	5373	6104	6326	6088	6560
CROWN COMPETITION FACTOR	174	161	191	155	203	180	187	206
RELATIVE DENSITY INDEX	48.0	44.2	53.1	43.1	54.9	50.1	52.6	57.3
MEAN DIAMETER (IN)	16.6	15.0	15.5	14.1	13.2	14.3	12.4	13.6
SITE HEIGHT (FEET)	105.8	99.4	104.8	96.2	89.1	89.1	93.5	97.8
DEAD TREES PER ACRE	10	0	0	20	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	8.1	0.0	0.0	11.2	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	298	0	0	356	0	0	0	0

PLCT SUMMARY REPORT

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INSTALLATION 106 DEER CREEK
 REGION: NORTHEAST WASHINGTON
 LEGAL DESCRIPTION: T30N R39E SECTION 7

OWNERSHIP: BOISE CASCADE
 MERIDIAN: WILLAMETTE

TREATMENT	PLCT NUMBER							
	1	2	3	4	5	6	7	8
	200 F	CONT	400 F	N+S F	CONT	400 S	200 S	N+S S
MEASUREMENTAL CHARACTERISTICS:								
AT TIME OF TREATMENT (1980)	STAND AGE = 41							
LIVE TREES PER ACRE	200	240	200	210	330	230	240	270
LIVE BASAL AREA (SQ. FT/A)	87.5	86.5	83.9	80.8	96.7	88.5	96.7	106.3
LIVE TOTAL VOLUME (CU. FT/A)	2077	1979	1867	1780	2266	1928	2283	2376
CROWN COMPETITION FACTOR	105	104	104	100	125	104	108	126
RELATIVE DENSITY INDEX	29.3	30.3	26.3	27.9	35.7	30.5	33.0	36.5
MEAN DIAMETER (IN)	9.0	8.1	8.8	8.4	7.3	8.4	8.6	8.5
SITE HEIGHT (FEET)	67.4	66.6	61.0	60.6	66.5	62.5	68.8	65.9
SPECIES COMPOSITION (% OF BA)								
DCUGLAS-FIR	96.2	95.8	100.0	100.0	99.1	90.8	79.3	67.3
GRAND FIR	0.0	0.0	0.0	0.0	0.0	0.7	0.9	0.5
WESTERN REDCEDAR	0.0	1.1	0.0	0.0	0.9	5.0	0.0	7.4
WESTERN LARCH	3.8	3.1	0.0	0.0	0.0	8.5	2.5	18.6
PACIFIC LARCH	0.0	0.0	0.0	0.0	0.0	0.0	17.3	0.0
3 YEARS AFTER TREATMENT (1983)								
LIVE TREES PER ACRE	180	220	200	210	330	230	230	260
LIVE BASAL AREA (SQ. FT/A)	97.8	98.7	102.6	97.0	110.9	106.2	112.1	124.1
CROWN COMPETITION FACTOR	114	115	122	119	140	121	124	145
RELATIVE DENSITY INDEX	31.0	32.6	32.9	32.0	39.6	35.0	36.5	40.6
MEAN DIAMETER (IN)	10.0	9.1	9.7	9.2	7.8	9.2	9.4	9.3
DEAD TREES PER ACRE	20	20	0	0	0	0	10	10
DEAD BASAL AREA (SQ. FT/A)	7.5	2.6	0.0	0.0	0.0	0.0	1.3	1.6
4 YEARS AFTER TREATMENT (1984)								
LIVE TREES PER ACRE	180	220	200	210	330	230	230	260
LIVE BASAL AREA (SQ. FT/A)	104.0	104.2	109.7	102.4	116.1	112.4	117.6	130.6
LIVE TOTAL VOLUME (CU. FT/A)	2676	2587	2646	2461	2902	2655	2960	3234
CROWN COMPETITION FACTOR	118	123	126	124	145	127	130	152
RELATIVE DENSITY INDEX	32.4	34.1	34.6	33.3	41.0	36.5	37.8	42.2
MEAN DIAMETER (IN)	10.3	9.3	10.0	9.4	8.0	9.5	9.7	9.6
SITE HEIGHT (FEET)	73.8	72.9	67.2	67.1	71.3	69.0	71.2	73.0
DEAD TREES PER ACRE	20	20	0	0	0	0	10	10
DEAD BASAL AREA (SQ. FT/A)	7.5	2.6	0.0	0.0	0.0	0.0	1.3	1.6
DEAD TOTAL VOLUME (CU. FT/A)	169	42	0	0	0	0	14	23
6 YEARS AFTER TREATMENT (1986)								
LIVE TREES PER ACRE	160	200	200	210	330	230	230	260
LIVE BASAL AREA (SQ. FT/A)	96.3	96.9	118.2	108.8	122.3	120.7	124.5	139.6
LIVE TOTAL VOLUME (CU. FT/A)	2532	2483	2938	2691	3131	2919	3203	3576
CROWN COMPETITION FACTOR	108	113	137	129	152	135	137	162
RELATIVE DENSITY INDEX	29.7	31.6	36.6	34.9	42.6	38.5	39.4	44.3
MEAN DIAMETER (IN)	10.5	9.4	10.4	9.8	8.2	9.8	10.0	9.9
SITE HEIGHT (FEET)	76.4	74.7	69.6	69.2	73.4	71.3	73.1	75.3
DEAD TREES PER ACRE	40	40	0	0	0	0	10	10
DEAD BASAL AREA (SQ. FT/A)	22.5	16.0	0.0	0.0	0.0	0.0	1.3	1.6
DEAD TOTAL VOLUME (CU. FT/A)	585	368	0	0	0	0	14	23
8 YEARS AFTER TREATMENT (1988)								
LIVE TREES PER ACRE	150	200	200	210	330	230	220	250
LIVE BASAL AREA (SQ. FT/A)	102.5	104.4	127.3	116.0	129.6	128.2	128.0	149.1
LIVE TOTAL VOLUME (CU. FT/A)	2816	2776	3280	2960	3443	3230	3460	3959
CROWN COMPETITION FACTOR	112	119	145	140	159	142	140	171
RELATIVE DENSITY INDEX	30.6	33.4	38.7	36.6	44.5	40.3	39.8	46.1
MEAN DIAMETER (IN)	11.2	9.8	10.8	10.1	8.5	10.1	10.3	10.5
SITE HEIGHT (FEET)	80.0	78.3	72.7	71.6	76.5	74.3	75.5	77.9
DEAD TREES PER ACRE	50	40	0	0	0	0	20	20
DEAD BASAL AREA (SQ. FT/A)	23.5	16.0	0.0	0.0	0.0	0.0	6.3	2.5
DEAD TOTAL VOLUME (CU. FT/A)	599	368	0	0	0	0	83	39

PLCT SUMMARY REPORT

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INSTALLATION 201 LAPPINWELL CREEK #1
 REGION: CENTRAL IDAHO OWNERSHIP: BOISE CASCADE
 LEGAL DESCRIPTION: T16N R4E SECTION 21 MERIDIAN: POISE

PLOT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1981)	200#N	400#N	0#N	400#N	0#N	200#N
SECOND TREATMENT (1987)	N+K	N+K	N+K	NONE	NONE	200#N

MENSURATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1981)	STAND	AGE =	59			
LIVE TREES PER ACRE	160	160	180	300	260	310
LIVE BASAL AREA (SQ. FT/A)	97.8	72.0	88.8	145.1	146.0	132.2
LIVE TOTAL VOLUME (CU. FT/A)	2084	1304	1723	3753	3388	3014
CROWN COMPETITION FACTOR	113	81	103	171	164	140
RELATIVE DENSITY INDEX	30.1	23.9	28.8	47.3	45.8	44.5
MEAN DIAMETER (IN)	10.6	9.1	9.5	9.4	10.1	8.8
SITE HEIGHT (FEET)	61.0	50.7	54.0	73.1	64.8	61.2
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	96.4	76.0	91.2	84.0	89.2	55.6
GRAND FIR	3.6	0.0	0.0	8.3	0.0	0.0
WESTERN LARCH	0.0	0.0	0.0	0.0	8.1	0.6
LODGEPOLE PINE	0.0	0.0	0.0	3.2	0.0	0.0
POUNCELOSA PINE	0.0	24.0	8.8	4.6	2.7	43.8

2 YEARS AFTER TREATMENT (1983)

LIVE TREES PER ACRE	160	160	180	300	260	310
LIVE BASAL AREA (SQ. FT/A)	105.1	80.4	94.7	157.8	155.2	140.3
CROWN COMPETITION FACTOR	120	89	111	183	173	148
RELATIVE DENSITY INDEX	31.7	26.0	30.2	50.3	48.0	46.5
MEAN DIAMETER (IN)	11.0	9.6	9.8	9.8	10.5	9.1
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1985)

LIVE TREES PER ACRE	160	160	180	300	260	310
LIVE BASAL AREA (SQ. FT/A)	111.4	89.4	100.9	169.7	164.1	150.6
LIVE TOTAL VOLUME (CU. FT/A)	2509	1746	2080	4611	3982	3736
CROWN COMPETITION FACTOR	127	97	116	193	180	157
RELATIVE DENSITY INDEX	33.1	28.1	31.7	53.2	50.0	49.0
MEAN DIAMETER (IN)	11.3	10.1	10.1	10.2	10.8	9.4
SITE HEIGHT (FEET)	65.2	54.5	58.1	78.1	69.5	65.9
AVERAGE CROWN RATIO (%)	47	61	48	40	45	44
AVERAGE CROWN LENGTH (FT)	26.7	29.4	25.1	26.6	28.4	26.7
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	2	0	0

6 YEARS AFTER TREATMENT (1987)

LIVE TREES PER ACRE	160	160	180	290	260	310
LIVE BASAL AREA (SQ. FT/A)	116.3	96.1	107.1	176.2	171.2	156.6
LIVE TOTAL VOLUME (CU. FT/A)	2686	1935	2262	4889	4226	3992
CROWN COMPETITION FACTOR	132	102	123	196	186	162
RELATIVE DENSITY INDEX	34.2	29.7	33.1	54.2	51.6	50.5
MEAN DIAMETER (IN)	11.5	10.5	10.4	10.6	11.0	9.6
SITE HEIGHT (FEET)	67.1	56.2	60.4	79.5	71.3	67.5
DEAD TREES PER ACRE	0	0	0	10	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	1.1	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	23	0	0

8 YEARS AFTER TREATMENT (1989)

LIVE TREES PER ACRE	160	160	170	280	250	290
LIVE BASAL AREA (SQ. FT/A)	122.9	102.7	110.2	180.1	174.2	158.4
LIVE TOTAL VOLUME (CU. FT/A)	2908	2122	2384	5077	4377	4154
CROWN COMPETITION FACTOR	136	108	126	201	190	163
RELATIVE DENSITY INDEX	35.7	31.2	33.4	54.6	51.8	50.1
MEAN DIAMETER (IN)	11.9	10.8	10.9	10.9	11.3	10.0
SITE HEIGHT (FEET)	69.1	57.4	61.5	81.1	72.5	69.3
AVERAGE CROWN RATIO (%)	54	62	55	44	49	43
AVERAGE CROWN LENGTH (FT)	34.2	32.1	30.5	32.1	33.1	27.1
DEAD TREES PER ACRE	0	0	0	20	10	20
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	4.8	4.5	4.6	5.0
DEAD TOTAL VOLUME (CU. FT/A)	1	0	91	105	59	110

PLCT SUMMARY REPORT

INSTALLATION 202 HORSETHIEF RESERVICB
 REGION: CENTRAL IDAHO OWNERSHIP: BCISE CASCADE
 LEGAL DESCRIPTION: T13N R5E SECTION 18 MERIDIAN: POISE

PLOT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1981)	400#N	0#N	200#N	400#N	200#N	0#N
SECOND TREATMENT (1987)	N+K	NCNE	NCNE	NCNE	N+K	N+K
MENSURATIONAL CHARACTERISTICS:						
AT TIME OF TREATMENT (1981)	STAND AGE = 58					
LIVE TREES PER ACRE	190	240	230	160	140	130
LIVE BASAL AREA (SQ. FT/A)	78.0	70.9	77.0	69.7	44.0	61.9
LIVE TOTAL VOLUME (CU. FT/A)	1529	1359	1439	1249	861	1270
CROWN COMPETITION FACTOR	87	91	95	80	56	74
RELATIVE DENSITY INDEX	26.5	26.1	27.5	23.3	16.0	20.3
MEAN DIAMETER (IN)	8.7	7.4	7.8	8.9	7.6	9.3
SITE HEIGHT (FEET)	49.3	53.9	53.0	48.8	48.9	56.9
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	58.4	97.7	88.4	77.9	94.5	92.9
LCDGEPOLE PINE	21.6	0.0	0.0	0.0	5.5	0.0
PCNDEBOSA PINE	19.9	2.3	11.6	22.1	0.0	7.1
2 YEARS AFTER TREATMENT (1983)						
LIVE TREES PER ACRE	190	240	230	160	140	130
LIVE BASAL AREA (SQ. FT/A)	87.7	76.8	84.7	79.2	51.3	68.8
CROWN COMPETITION FACTOR	95	97	103	90	63	80
RELATIVE DENSITY INDEX	28.9	27.8	29.6	25.7	17.9	21.9
MEAN DIAMETER (IN)	9.2	7.7	8.2	9.5	8.2	9.8
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
4 YEARS AFTER TREATMENT (1985)						
LIVE TREES PER ACRE	190	240	230	160	140	130
LIVE BASAL AREA (SQ. FT/A)	96.9	83.1	93.0	89.3	58.6	76.8
LIVE TOTAL VOLUME (CU. FT/A)	2050	1653	1620	1736	1191	1644
CROWN COMPETITION FACTOR	103	104	110	99	70	88
RELATIVE DENSITY INDEX	31.2	29.4	31.7	28.1	19.8	23.8
MEAN DIAMETER (IN)	9.7	8.0	8.6	10.1	8.8	10.4
SITE HEIGHT (FEET)	54.6	56.8	56.3	53.5	52.4	60.2
AVERAGE CROWN RATIO (%)	53	43	56	62	59	57
AVERAGE CROWN LENGTH (FT)	26.6	20.1	26.5	30.2	29.8	31.4
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	0	0	0
6 YEARS AFTER TREATMENT (1987)						
LIVE TREES PER ACRE	190	240	230	160	140	130
LIVE BASAL AREA (SQ. FT/A)	102.5	87.9	97.3	95.4	62.8	81.7
LIVE TOTAL VOLUME (CU. FT/A)	2218	1770	1936	1895	1304	1788
CROWN COMPETITION FACTOR	107	109	114	104	75	94
RELATIVE DENSITY INDEX	32.5	30.7	32.8	29.5	20.9	24.9
MEAN DIAMETER (IN)	9.9	8.2	8.8	10.4	9.1	10.7
SITE HEIGHT (FEET)	56.3	57.9	57.6	54.8	53.5	61.8
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	0	0	0
8 YEARS AFTER TREATMENT (1989)						
LIVE TREES PER ACRE	160	240	230	160	140	130
LIVE BASAL AREA (SQ. FT/A)	96.9	92.5	102.3	102.7	69.1	88.7
LIVE TOTAL VOLUME (CU. FT/A)	2183	1890	2066	2077	1472	1991
CROWN COMPETITION FACTOR	98	114	119	111	83	101
RELATIVE DENSITY INDEX	29.9	31.9	34.0	31.2	22.4	26.5
MEAN DIAMETER (IN)	10.5	8.4	9.0	10.8	9.5	11.2
SITE HEIGHT (FEET)	58.2	58.7	58.7	53.9	55.8	63.8
AVERAGE CROWN RATIO (%)	57	50	53	59	62	63
AVERAGE CROWN LENGTH (FT)	30.8	24.6	26.5	30.8	33.1	36.8
DEAD TREES PER ACRE	30	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	11.5	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	227	0	0	0	0	0

FLCOT SUMMARY REPORT

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INSTALLATION 203 LAFPINWELL CREEK #2
 REGION: CENTRAL IDAHO OWNERSHIP: BCISE CASCADE
 LEGAL DESCRIPTION: T16N R4E SECTION 29 MERIDIAN: POISE

PLOT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1981)	200#N	400#N	0#N	0#N	400#N	200#N
SECOND TREATMENT (1987)	200#N	N+K	NCNE	N+K	200#N	NONE

MENSURATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1981)	STAND AGE = 69					
LIVE TREES PER ACRE	170	130	180	120	190	200
LIVE BASAL AREA (SQ. FT/A)	98.4	85.1	106.0	88.3	102.9	123.4
LIVE TOTAL VOLUME (CU. FT/A)	2046	2316	2851	2126	2465	2969
CROWN COMPETITION FACTOR	106	96	119	88	122	127
RELATIVE DENSITY INDEX	30.7	25.7	32.9	25.9	32.6	37.8
MEAN DIAMETER (IN)	10.3	10.9	10.4	11.6	10.0	10.6
SITE HEIGHT (FEET)	58.6	75.2	78.6	68.8	70.7	70.1
SPECIES COMPOSITION (% OF BA)						
DCUGLAS-FIR	73.7	92.9	77.0	68.5	85.8	74.1
GRAND FIR	0.0	7.1	8.7	7.8	14.2	0.0
WESTERN LARCH	0.0	0.0	14.3	0.0	0.0	0.0
PCNDEHOSA PINE	26.3	0.0	0.0	23.6	0.0	25.9

2 YEARS AFTER TREATMENT (1983)

LIVE TREES PER ACRE	170	130	180	120	190	200
LIVE BASAL AREA (SQ. FT/A)	105.1	91.7	111.6	93.8	111.2	134.1
CROWN COMPETITION FACTOR	111	102	124	93	129	135
RELATIVE DENSITY INDEX	32.2	27.2	34.2	27.1	34.5	40.3
MEAN DIAMETER (IN)	10.6	11.4	10.7	12.0	10.4	11.1
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1985)

LIVE TREES PER ACRE	170	130	180	113	190	200
LIVE BASAL AREA (SQ. FT/A)	111.8	97.5	118.7	98.2	117.5	143.1
LIVE TOTAL VOLUME (CU. FT/A)	2463	2729	3330	2549	2927	3677
CROWN COMPETITION FACTOR	117	107	130	95	135	142
RELATIVE DENSITY INDEX	33.7	28.5	35.8	27.6	36.0	42.3
MEAN DIAMETER (IN)	11.0	11.7	11.0	12.6	10.6	11.4
SITE HEIGHT (FEET)	62.0	78.2	81.9	73.7	74.4	74.7
AVERAGE CROWN RATIO (%)	46	34	44	58	51	52
AVERAGE CROWN LENGTH (FT)	26.0	24.9	31.6	34.9	32.1	33.1
DEAD TREES PER ACRE	0	0	0	7	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.9	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	8	2	0

6 YEARS AFTER TREATMENT (1987)

LIVE TREES PER ACRE	170	130	180	113	190	200
LIVE BASAL AREA (SQ. FT/A)	117.1	103.7	122.6	102.4	122.0	150.4
LIVE TOTAL VOLUME (CU. FT/A)	2657	2947	3509	2728	3050	3961
CROWN COMPETITION FACTOR	121	111	133	99	139	148
RELATIVE DENSITY INDEX	34.5	29.8	36.7	28.5	37.0	43.9
MEAN DIAMETER (IN)	11.2	12.1	11.2	12.9	10.8	11.7
SITE HEIGHT (FEET)	64.1	79.7	83.7	75.5	76.1	76.7
DEAD TREES PER ACRE	0	0	0	7	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.9	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	8	2	0

8 YEARS AFTER TREATMENT (1989)

LIVE TREES PER ACRE	170	130	180	107	160	190
LIVE BASAL AREA (SQ. FT/A)	123.0	110.0	127.7	101.4	110.1	152.7
LIVE TOTAL VOLUME (CU. FT/A)	2847	3177	3704	2766	2857	4092
CROWN COMPETITION FACTOR	126	116	137	96	120	147
RELATIVE DENSITY INDEX	36.3	31.2	37.8	27.9	32.8	43.8
MEAN DIAMETER (IN)	11.5	12.5	11.4	13.2	11.2	12.1
SITE HEIGHT (FEET)	64.5	81.3	85.1	77.0	77.6	77.5
AVERAGE CROWN RATIO (%)	52	42	42	61	47	50
AVERAGE CROWN LENGTH (FT)	30.8	32.1	31.0	38.6	30.9	33.8
DEAD TREES PER ACRE	0	0	0	13	30	10
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	6.7	16.1	3.9
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	155	384	100

PLCT SUMMARY REPORT

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INSTALLATION 204 JOHNSON'S MILL #1
 REGION: NORTHERN IDAHO CWNESHIP: IDL
 LEGAL DESCRIPTION: T37N R3E SECTION 4 MERIDIAN: BOISE

PLOT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1981)	400#N	0#N	200#N	0#N	400#N	200#N
SECOND TREATMENT (1987)	NCNE	NONE	NCNE	N+K	200#N	200#N

MENSURATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1981)	STAND AGE = 41					
LIVE TREES PER ACRE	260	250	280	250	180	210
LIVE BASAL AREA (SQ. FT/A)	121.2	118.4	121.3	101.7	80.4	83.0
LIVE TOTAL VOLUME (CU. FT/A)	294.3	283.9	296.5	229.1	201.2	196.5
CROWN COMPETITION FACTOR	14.7	14.4	15.7	12.6	10.7	10.8
RELATIVE DENSITY INDEX	39.6	38.8	40.6	34.6	26.7	28.5
MEAN DIAMETER (IN)	9.2	9.3	8.9	8.6	9.0	8.5
SITE HEIGHT (FEET)	70.6	67.5	69.5	64.7	67.5	63.7
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	92.6	94.3	78.4	100.0	74.7	81.1
GRAND FIR	7.3	5.7	21.6	0.0	25.3	18.9

2 YEARS AFTER TREATMENT (1983)

LIVE TREES PER ACRE	260	250	270	250	180	210
LIVE BASAL AREA (SQ. FT/A)	139.6	129.0	136.5	114.0	94.0	95.9
CROWN COMPETITION FACTOR	16.4	15.4	17.2	13.8	12.0	12.3
RELATIVE DENSITY INDEX	44.3	41.4	44.0	37.7	30.1	31.7
MEAN DIAMETER (IN)	9.9	9.7	9.6	9.1	9.8	9.1
DEAD TREES PER ACRE	0	0	10	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	1.7	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1985)

LIVE TREES PER ACRE	250	230	260	250	170	190
LIVE BASAL AREA (SQ. FT/A)	153.3	124.7	147.9	125.9	104.7	99.5
LIVE TOTAL VOLUME (CU. FT/A)	404.3	316.4	399.8	307.5	292.5	261.6
CROWN COMPETITION FACTOR	17.7	15.0	18.2	14.9	13.1	12.5
RELATIVE DENSITY INDEX	47.1	39.5	46.3	40.6	32.1	31.8
MEAN DIAMETER (IN)	10.6	10.0	10.2	9.6	10.6	9.8
SITE HEIGHT (FEET)	78.1	68.8	75.3	71.1	74.3	69.9
AVERAGE CROWN RATIO (%)	50	49	52	51	56	52
AVERAGE CROWN LENGTH (FT)	32.3	31.3	34.4	31.3	38.3	33.4
DEAD TREES PER ACRE	10	20	20	0	10	20
DEAD BASAL AREA (SQ. FT/A)	2.7	13.6	4.4	0.0	2.3	7.7
DEAD TOTAL VOLUME (CU. FT/A)	55	339	85	0	52	159

6 YEARS AFTER TREATMENT (1987)

LIVE TREES PER ACRE	230	230	250	250	170	180
LIVE BASAL AREA (SQ. FT/A)	157.0	133.5	155.0	136.9	117.3	106.3
LIVE TOTAL VOLUME (CU. FT/A)	434.1	347.6	437.4	346.8	341.6	290.6
CROWN COMPETITION FACTOR	17.7	16.0	18.6	15.9	13.9	12.9
RELATIVE DENSITY INDEX	46.9	41.6	47.5	43.3	35.0	32.9
MEAN DIAMETER (IN)	11.2	10.3	10.7	10.0	11.3	10.4
SITE HEIGHT (FEET)	81.2	70.2	78.6	74.2	77.7	73.9
DEAD TREES PER ACRE	30	20	30	0	10	30
DEAD BASAL AREA (SQ. FT/A)	11.8	13.6	9.1	0.0	2.3	11.2
DEAD TOTAL VOLUME (CU. FT/A)	247	339	188	0	52	237

8 YEARS AFTER TREATMENT (1989)

LIVE TREES PER ACRE	230	230	250	250	170	170
LIVE BASAL AREA (SQ. FT/A)	169.0	141.7	165.7	150.5	131.5	112.3
LIVE TOTAL VOLUME (CU. FT/A)	481.7	377.0	481.9	395.2	400.8	322.7
CROWN COMPETITION FACTOR	18.7	16.7	19.5	17.2	15.0	13.5
RELATIVE DENSITY INDEX	49.6	43.5	49.9	46.4	38.1	33.9
MEAN DIAMETER (IN)	11.6	10.6	11.0	10.5	11.9	11.0
SITE HEIGHT (FEET)	83.5	71.7	80.8	77.3	80.7	75.8
AVERAGE CROWN RATIO (%)	52	46	49	51	52	52
AVERAGE CROWN LENGTH (FT)	37.1	31.7	35.9	34.2	39.7	37.5
DEAD TREES PER ACRE	30	20	30	0	10	40
DEAD BASAL AREA (SQ. FT/A)	11.8	13.6	9.1	0.0	2.3	15.7
DEAD TOTAL VOLUME (CU. FT/A)	247	339	188	0	52	332

FLCT SUMMARY REPORT

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INSTALLATION 205 JOHNSON'S MILL #2
 REGION: NORTHERN IDAHO OWNERSHIP: IDL
 LEGAL DESCRIPTION: T37N R3E SECTION 4 MERIDIAN: BOISE

PLOT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1981)	400#N	200#N	0#N	400#N	200#N	0#N
SECOND TREATMENT (1987)	200#N	N+K	NCNE	NONE	200#N	N+K

MENSURATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1981)	STAND AGE = 41					
LIVE TREES PER ACRE	240	220	190	210	270	250
LIVE BASAL AREA (SQ. FT/A)	143.4	120.6	106.5	80.4	121.1	98.0
LIVE TOTAL VOLUME (CU. FT/A)	3949	3283	2640	1771	3102	2380
CROWN COMPETITION FACTOR	172	146	129	105	150	113
RELATIVE DENSITY INDEX	44.3	38.1	33.4	27.8	40.2	33.7
MEAN DIAMETER (IN)	10.5	10.0	10.1	8.4	9.1	8.5
SITE HEIGHT (FEET)	71.7	73.2	70.9	61.9	70.3	66.2
SPECIES COMPOSITION (% CF BA)						
DOUGLAS-FIR	65.2	86.5	87.3	84.7	74.3	65.2
GRAND FIR	22.0	13.5	12.7	15.3	14.5	3.8
WESTERN RED CEDAR	12.8	0.0	0.0	0.0	0.0	0.0
WESTERN LARCH	0.0	0.0	0.0	0.0	8.2	13.2
LCDGEPOLE PINE	0.0	0.0	0.0	0.0	0.0	15.3
WESTERN WHITE PINE	0.0	0.0	0.0	0.0	3.0	2.5

2 YEARS AFTER TREATMENT (1983)

LIVE TREES PER ACRE	240	220	190	200	270	250
LIVE BASAL AREA (SQ. FT/A)	161.0	135.3	118.2	89.3	136.9	106.2
CROWN COMPETITION FACTOR	191	160	141	110	165	122
RELATIVE DENSITY INDEX	48.3	41.5	36.2	29.7	44.1	35.8
MEAN DIAMETER (IN)	11.1	10.6	10.7	9.0	9.6	8.8
DEAD TREES PER ACRE	0	0	0	10	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	4.4	0.0	0.0

4 YEARS AFTER TREATMENT (1985)

LIVE TREES PER ACRE	240	220	190	200	270	240
LIVE BASAL AREA (SQ. FT/A)	176.9	148.0	129.6	101.6	150.0	110.4
LIVE TOTAL VOLUME (CU. FT/A)	5356	4474	3513	2461	4210	2905
CROWN COMPETITION FACTOR	204	174	151	123	177	126
RELATIVE DENSITY INDEX	51.9	44.4	38.7	32.7	47.2	36.4
MEAN DIAMETER (IN)	11.6	11.1	11.2	9.6	10.1	9.2
SITE HEIGHT (FEET)	79.0	81.0	76.5	70.4	79.7	72.3
AVERAGE CROWN RATIO (%)	47	46	55	49	45	45
AVERAGE CROWN LENGTH (FT)	36.0	36.1	37.5	29.6	32.1	27.6
DEAD TREES PER ACRE	0	0	0	10	0	10
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	4.4	0.0	2.5
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	113	0	63

6 YEARS AFTER TREATMENT (1987)

LIVE TREES PER ACRE	240	220	190	190	250	210
LIVE BASAL AREA (SQ. FT/A)	191.0	159.2	140.7	108.2	154.4	110.5
LIVE TOTAL VOLUME (CU. FT/A)	6015	4982	3954	2738	4525	3070
CROWN COMPETITION FACTOR	217	183	161	129	180	123
RELATIVE DENSITY INDEX	55.0	46.9	41.2	33.8	47.3	35.3
MEAN DIAMETER (IN)	12.1	11.5	11.6	10.2	10.6	9.8
SITE HEIGHT (FEET)	82.2	85.6	79.1	73.3	82.7	74.8
DEAD TREES PER ACRE	0	0	0	20	20	40
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	7.1	7.1	11.2
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	172	179	236

8 YEARS AFTER TREATMENT (1989)

LIVE TREES PER ACRE	230	220	190	190	250	210
LIVE BASAL AREA (SQ. FT/A)	200.6	171.5	150.1	118.6	168.5	120.2
LIVE TOTAL VOLUME (CU. FT/A)	6623	5586	4378	3132	5092	3457
CROWN COMPETITION FACTOR	225	192	168	139	191	131
RELATIVE DENSITY INDEX	56.4	49.6	43.3	36.3	50.5	37.6
MEAN DIAMETER (IN)	12.6	12.0	12.0	10.7	11.1	10.2
SITE HEIGHT (FEET)	85.6	89.4	82.4	77.2	85.8	77.6
AVERAGE CROWN RATIO (%)	47	45	52	53	51	48
AVERAGE CROWN LENGTH (FT)	38.7	37.9	38.4	36.2	38.4	31.6
DEAD TREES PER ACRE	10	0	0	20	20	40
DEAD BASAL AREA (SQ. FT/A)	6.1	0.0	0.0	7.1	7.1	11.2
DEAD TOTAL VOLUME (CU. FT/A)	184	0	0	172	179	236

PLCT SUMMARY REPORT

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INSTALLATION 206 CARIBEL
 REGION: NORTHERN IDAHO OWNERSHIP: IDL
 LEGAL DESCRIPTION: T34N R4E SECTION 36 MERIDIAN: BOISE

PLOT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1981)	200#N	0#N	400#N	400#N	200#N	0#N
SECOND TREATMENT (1987)	N+K	NCNE	N+K	200#N	NCSE	N+K

MENSURATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1981)	STAND AGE = 46					
LIVE TREES PER ACRE	230	210	190	370	310	250
LIVE BASAL AREA (SQ. FT/A)	148.1	119.3	124.2	207.1	157.9	157.7
LIVE TOTAL VOLUME (CU. FT/A)	4048	3060	3150	5535	3941	4332
CROWN COMPETITION FACTOR	153	140	137	241	184	179
RELATIVE DENSITY INDEX	44.9	37.3	37.5	65.1	50.8	48.1
MEAN DIAMETER (IN)	10.9	10.2	10.9	10.1	9.7	10.8
SITE HEIGHT (FEET)	82.7	72.5	72.0	75.9	72.1	80.5
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	68.1	88.2	94.3	71.8	82.4	59.6
GRAND FIR	1.1	11.2	0.0	17.2	5.6	14.6
WESTERN RED CEDAR	8.5	0.6	0.0	6.7	8.2	2.8
WESTERN LARCH	19.3	0.0	5.8	4.4	3.8	17.2
PONDEROSA PINE	3.1	0.0	0.0	0.0	0.0	5.8

2 YEARS AFTER TREATMENT (1983)

LIVE TREES PER ACRE	230	210	190	370	310	250
LIVE BASAL AREA (SQ. FT/A)	160.3	129.4	134.3	224.6	173.3	168.3
CROWN COMPETITION FACTOR	163	149	145	258	198	189
RELATIVE DENSITY INDEX	47.7	39.7	39.8	69.1	54.5	50.5
MEAN DIAMETER (IN)	11.3	10.6	11.4	10.5	10.1	11.1
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1985)

LIVE TREES PER ACRE	230	210	180	370	310	240
LIVE BASAL AREA (SQ. FT/A)	170.3	137.9	140.6	239.4	186.0	173.6
LIVE TOTAL VOLUME (CU. FT/A)	5035	3832	3904	6978	5063	5201
CROWN COMPETITION FACTOR	173	156	149	267	209	191
RELATIVE DENSITY INDEX	49.9	41.6	40.6	72.5	57.4	51.2
MEAN DIAMETER (IN)	11.6	11.0	12.0	10.9	10.5	11.5
SITE HEIGHT (FEET)	90.6	78.7	78.8	82.9	80.6	87.4
AVERAGE CROWN RATIO (%)	53	55	46	50	49	49
AVERAGE CROWN LENGTH (FT)	37.6	37.8	33.2	34.7	31.8	37.6
DEAD TREES PER ACRE	0	0	10	0	0	10
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	1.7	0.0	0.0	3.4
DEAD TOTAL VOLUME (CU. FT/A)	0	0	42	0	0	95

6 YEARS AFTER TREATMENT (1987)

LIVE TREES PER ACRE	230	210	180	370	310	240
LIVE BASAL AREA (SQ. FT/A)	181.0	147.6	149.1	255.4	198.0	186.8
LIVE TOTAL VOLUME (CU. FT/A)	5519	4239	4277	7692	5557	5791
CROWN COMPETITION FACTOR	181	165	157	281	219	205
RELATIVE DENSITY INDEX	52.2	43.8	42.5	76.1	60.2	54.0
MEAN DIAMETER (IN)	12.0	11.3	12.3	11.3	10.8	11.9
SITE HEIGHT (FEET)	93.7	81.4	81.9	86.2	83.4	90.7
DEAD TREES PER ACRE	0	0	10	0	0	10
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	1.7	0.0	0.0	3.4
DEAD TOTAL VOLUME (CU. FT/A)	0	0	42	0	0	95

8 YEARS AFTER TREATMENT (1989)

LIVE TREES PER ACRE	230	210	180	360	310	240
LIVE BASAL AREA (SQ. FT/A)	191.6	156.7	157.5	266.3	208.2	198.3
LIVE TOTAL VOLUME (CU. FT/A)	6038	4675	4688	8330	6052	6381
CROWN COMPETITION FACTOR	189	172	163	289	227	212
RELATIVE DENSITY INDEX	54.5	45.8	44.3	78.0	62.5	56.5
MEAN DIAMETER (IN)	12.4	11.7	12.7	11.6	11.1	12.3
SITE HEIGHT (FEET)	96.6	84.8	85.5	89.9	86.7	93.8
AVERAGE CROWN RATIO (%)	52	52	48	50	44	48
AVERAGE CROWN LENGTH (FT)	40.5	39.4	37.8	39.4	31.8	39.9
DEAD TREES PER ACRE	0	0	10	10	0	10
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	1.7	1.7	0.0	3.4
DEAD TOTAL VOLUME (CU. FT/A)	0	0	43	36	2	95

INSTALLATION 207 WAHA
 REGION: NORTHEAST OREGON
 LEGAL DESCRIPTION: T33N R4W SECTION 10 OWNERSHIP: PCT LATCH
 MERIDIAN: BOISE

PLOT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1981)	400#N	200#N	0#N	400#N	0#N	200#N
SECOND TREATMENT (1987)	N+K	NONE	NONE	NONE	N+K	N+K
MENSURATIONAL CHARACTERISTICS:						
AT TIME OF TREATMENT (1981)	STAND AGE = 55					
LIVE TREES PER ACRE	350	260	220	260	290	280
LIVE BASAL AREA (SQ.FT/A)	197.7	167.7	121.4	136.4	172.0	145.0
LIVE TOTAL VOLUME (CU.FT/A)	4526	4472	2923	3242	4702	3657
CROWN COMPETITION FACTOR	200	173	132	153	177	171
RELATIVE DENSITY INDEX	62.0	50.8	38.4	43.6	53.3	45.5
MEAN DIAMETER (IN)	10.2	10.9	10.1	9.8	10.4	9.8
SITE HEIGHT (FEET)	67.0	78.6	65.1	66.6	73.8	68.3
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	52.0	59.4	70.7	82.5	48.5	94.9
GRAND FIR	0.0	5.5	0.0	0.0	7.0	0.0
WESTERN LARCH	11.3	11.0	0.0	0.0	0.0	0.0
PONDEROSA PINE	36.7	24.1	29.3	17.5	44.5	5.1
2 YEARS AFTER TREATMENT (1983)						
LIVE TREES PER ACRE	310	260	220	260	260	260
LIVE BASAL AREA (SQ.FT/A)	184.4	179.2	128.8	146.4	165.9	144.8
CROWN COMPETITION FACTOR	189	182	139	162	170	168
RELATIVE DENSITY INDEX	57.1	53.4	40.0	45.9	50.4	45.5
MEAN DIAMETER (IN)	10.4	11.2	10.4	10.2	10.8	10.1
DEAD TREES PER ACRE	40	0	0	0	30	20
DEAD BASAL AREA (SQ.FT/A)	21.7	0.0	0.0	0.0	13.0	9.7
4 YEARS AFTER TREATMENT (1985)						
LIVE TREES PER ACRE	290	260	210	260	260	250
LIVE BASAL AREA (SQ.FT/A)	181.9	191.2	132.1	155.3	173.5	147.0
LIVE TOTAL VOLUME (CU.FT/A)	4899	5572	3471	3983	5105	3883
CROWN COMPETITION FACTOR	187	192	141	169	176	167
RELATIVE DENSITY INDEX	56.0	56.1	40.3	48.0	52.2	45.6
MEAN DIAMETER (IN)	10.8	11.0	10.7	10.5	11.1	10.4
SITE HEIGHT (FEET)	74.2	86.1	71.2	73.0	79.4	72.6
AVERAGE CROWN RATIO (%)	34	42	44	46	34	37
AVERAGE CROWN LENGTH (FT)	23.6	30.1	24.1	29.3	24.0	24.9
DEAD TREES PER ACRE	60	0	10	0	30	30
DEAD BASAL AREA (SQ.FT/A)	31.9	0.0	3.3	0.0	13.0	10.0
DEAD TOTAL VOLUME (CU.FT/A)	887	0	57	0	339	423
6 YEARS AFTER TREATMENT (1987)						
LIVE TREES PER ACRE	240	240	180	240	240	240
LIVE BASAL AREA (SQ.FT/A)	168.3	180.2	118.8	150.0	171.7	149.1
LIVE TOTAL VOLUME (CU.FT/A)	4566	5259	3184	3927	5144	4010
CROWN COMPETITION FACTOR	174	183	130	164	174	167
RELATIVE DENSITY INDEX	50.0	52.6	35.8	45.8	50.7	45.6
MEAN DIAMETER (IN)	11.3	11.7	11.0	10.7	11.4	10.7
SITE HEIGHT (FEET)	77.8	84.9	74.8	74.9	80.8	74.1
DEAD TREES PER ACRE	110	20	40	20	50	40
DEAD BASAL AREA (SQ.FT/A)	54.3	19.1	21.4	12.1	19.7	19.5
DEAD TOTAL VOLUME (CU.FT/A)	1496	639	547	333	531	511
8 YEARS AFTER TREATMENT (1989)						
LIVE TREES PER ACRE	190	180	100	240	150	180
LIVE BASAL AREA (SQ.FT/A)	154.0	150.0	110.3	156.6	132.5	131.7
LIVE TOTAL VOLUME (CU.FT/A)	4295	4426	3027	4198	4011	3643
CROWN COMPETITION FACTOR	161	153	121	170	138	148
RELATIVE DENSITY INDEX	44.1	42.7	32.9	47.3	39.4	38.7
MEAN DIAMETER (IN)	12.2	12.4	11.3	10.9	11.3	11.6
SITE HEIGHT (FEET)	79.9	89.5	76.4	78.8	83.2	75.7
AVERAGE CROWN RATIO (%)	40	43	46	44	34	37
AVERAGE CROWN LENGTH (FT)	30.5	33.3	32.6	30.1	25.3	27.2
DEAD TREES PER ACRE	160	80	60	20	100	100
DEAD BASAL AREA (SQ.FT/A)	75.4	55.0	34.5	12.1	63.4	41.1
DEAD TOTAL VOLUME (CU.FT/A)	2047	1717	892	333	1081	1063

PLCT SUMMARY REPORT

INSTALLATION 208 LOVELL VALLEY ROAD
 REGION: NORTHERN IDAHO OWNERSHIP: PCTIATCH
 LEGAL DESCRIPTION: T46N R5W SECTION 25 MERIDIAN: BOISE

PLOT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1981)	0#N	400#N	200#N	400#N	200#N	0#N
SECOND TREATMENT (1987)	N+K	NONE	N+K	200#N	200#N	NONE

MENSURATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1981)	STAND AGE = 88					
LIVE TREES PER ACRE	100	120	150	130	210	190
LIVE BASAL AREA (SQ. FT/A)	155.9	207.3	216.4	167.8	209.1	175.5
LIVE TOTAL VOLUME (CU. FT/A)	5708	7884	7666	5675	7005	5357
CROWN COMPETITION FACTOR	139	180	191	157	206	179
RELATIVE DENSITY INDEX	37.9	49.1	53.7	42.8	56.9	48.6
MEAN DIAMETER (IN)	16.9	17.8	16.3	15.4	13.5	13.0
SITE HEIGHT (FEET)	106.2	114.4	103.3	100.2	99.7	90.6
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	100.0	100.0	89.9	100.0	94.6	94.4
GRAND FIR	0.0	0.0	0.0	0.0	0.0	5.6
PCNDEROSA PINE	0.0	0.0	10.1	0.0	5.4	0.0

2 YEARS AFTER TREATMENT (1983)

LIVE TREES PER ACRE	100	120	150	130	210	190
LIVE BASAL AREA (SQ. FT/A)	162.1	215.1	225.0	173.4	217.1	182.5
CROWN COMPETITION FACTOR	143	186	196	161	211	184
RELATIVE DENSITY INDEX	39.0	50.5	55.2	43.8	58.5	50.1
MEAN DIAMETER (IN)	17.2	18.1	16.6	15.6	13.8	13.3
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1985)

LIVE TREES PER ACRE	100	120	150	120	210	190
LIVE BASAL AREA (SQ. FT/A)	167.2	221.3	232.8	174.7	224.2	188.9
LIVE TOTAL VOLUME (CU. FT/A)	6255	8627	8508	6003	7721	5918
CROWN COMPETITION FACTOR	147	190	201	159	216	188
RELATIVE DENSITY INDEX	40.0	51.6	56.7	43.2	59.9	51.4
MEAN DIAMETER (IN)	17.5	18.4	16.9	16.3	14.0	13.5
SITE HEIGHT (FEET)	109.2	117.8	107.0	102.4	102.8	94.0
AVERAGE CROWN RATIO (%)	40	37	35	32	32	34
AVERAGE CROWN LENGTH (FT)	41.3	39.5	34.2	29.7	29.0	28.0
DEAD TREES PER ACRE	0	0	0	10	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	3.9	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	111	0	0

6 YEARS AFTER TREATMENT (1987)

LIVE TREES PER ACRE	90	120	150	120	210	180
LIVE BASAL AREA (SQ. FT/A)	170.5	229.2	240.9	181.1	231.9	195.0
LIVE TOTAL VOLUME (CU. FT/A)	6535	9068	8957	6283	8050	6202
CROWN COMPETITION FACTOR	146	195	207	164	222	191
RELATIVE DENSITY INDEX	39.5	53.0	58.1	44.4	61.5	51.9
MEAN DIAMETER (IN)	18.6	18.7	17.2	16.6	14.2	14.1
SITE HEIGHT (FEET)	111.5	119.9	109.2	103.9	104.4	95.5
DEAD TREES PER ACRE	10	0	0	10	0	10
DEAD BASAL AREA (SQ. FT/A)	4.0	0.0	0.0	3.9	0.0	2.0
DEAD TOTAL VOLUME (CU. FT/A)	114	0	0	111	0	50

8 YEARS AFTER TREATMENT (1989)

LIVE TREES PER ACRE	90	120	150	120	210	160
LIVE BASAL AREA (SQ. FT/A)	178.6	236.9	250.4	189.1	241.1	188.7
LIVE TOTAL VOLUME (CU. FT/A)	6918	9441	9457	6633	8518	6018
CROWN COMPETITION FACTOR	152	200	213	169	228	181
RELATIVE DENSITY INDEX	40.9	54.3	59.9	45.9	63.3	49.2
MEAN DIAMETER (IN)	19.1	19.0	17.5	17.0	14.5	14.7
SITE HEIGHT (FEET)	113.0	120.9	110.8	105.1	106.3	97.0
AVERAGE CROWN RATIO (%)	44	39	43	41	38	41
AVERAGE CROWN LENGTH (FT)	48.4	41.9	43.0	40.8	35.9	35.3
DEAD TREES PER ACRE	10	0	0	10	0	30
DEAD BASAL AREA (SQ. FT/A)	4.0	0.0	0.0	3.9	0.0	15.8
DEAD TOTAL VOLUME (CU. FT/A)	114	0	0	111	0	536

PLCT SUMMARY REPORT

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INSTALLATION 209 ADCEY
 REGION: NORTHEAST WASHINGTON OWNERSHIP: BOISE CASCADE
 LEGAL DESCRIPTION: T34N R38E SECTION 27 MERIDIAN: WILLAMETTE

PLOT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1981)	200#N	0#N	400#N	0#N	400#N	200#N
SECOND TREATMENT (1987)	200#N	N+K	NCNE	NONE	N+K	N+K

MENSURATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1981)	STAND AGE = 68					
LIVE TREES PER ACRE	170	150	190	230	210	140
LIVE BASAL AREA (SQ. FT/A)	182.6	121.7	124.3	150.5	158.7	120.9
LIVE TOTAL VOLUME (CU. FT/A)	6233	3840	3466	4442	4743	3769
CROWN COMPETITION FACTOR	182	130	143	172	174	124
RELATIVE DENSITY INDEX	48.7	34.9	37.6	45.5	46.3	34.1
MEAN DIAMETER (IN)	14.6	12.2	10.9	10.9	11.8	12.6
SITE HEIGHT (FEET)	102.3	92.4	78.8	82.7	85.9	91.7
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	100.0	100.0	100.0	100.0	100.0	94.1
WESTERN LARCH	0.0	0.0	0.0	0.0	0.0	5.9

2 YEARS AFTER TREATMENT (1983)

LIVE TREES PER ACRE	170	150	190	230	210	140
LIVE BASAL AREA (SQ. FT/A)	192.4	127.3	132.0	157.1	167.1	129.0
CROWN COMPETITION FACTOR	189	135	150	180	183	131
RELATIVE DENSITY INDEX	50.7	36.0	39.3	47.0	48.1	35.8
MEAN DIAMETER (IN)	14.4	12.5	11.3	11.2	12.1	13.0
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1985)

LIVE TREES PER ACRE	170	140	190	230	210	140
LIVE BASAL AREA (SQ. FT/A)	201.7	126.7	140.5	165.3	178.0	137.5
LIVE TOTAL VOLUME (CU. FT/A)	7221	4171	4150	5113	5632	4511
CROWN COMPETITION FACTOR	195	132	157	187	192	136
RELATIVE DENSITY INDEX	52.5	35.3	41.2	48.8	50.4	37.5
MEAN DIAMETER (IN)	14.8	12.9	11.6	11.5	12.5	13.4
SITE HEIGHT (FEET)	108.0	97.7	84.1	87.5	92.3	98.1
AVERAGE CROWN RATIO (%)	34	33	37	33	34	37
AVERAGE CROWN LENGTH (FT)	32.6	29.0	28.6	26.4	28.8	33.2
DEAD TREES PER ACRE	0	10	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	6.5	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	193	0	0	0	0

6 YEARS AFTER TREATMENT (1987)

LIVE TREES PER ACRE	170	140	190	220	210	140
LIVE BASAL AREA (SQ. FT/A)	208.9	131.6	147.1	165.7	185.8	144.4
LIVE TOTAL VOLUME (CU. FT/A)	7644	4415	4432	5238	6038	4836
CROWN COMPETITION FACTOR	200	136	163	184	199	141
RELATIVE DENSITY INDEX	53.9	36.3	42.6	48.3	52.1	38.9
MEAN DIAMETER (IN)	15.0	13.1	11.9	11.8	12.7	13.8
SITE HEIGHT (FEET)	110.6	99.6	86.1	89.8	94.1	100.1
DEAD TREES PER ACRE	0	10	0	10	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	6.5	0.0	6.3	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	193	0	181	0	0

8 YEARS AFTER TREATMENT (1989)

LIVE TREES PER ACRE	170	140	190	220	210	140
LIVE BASAL AREA (SQ. FT/A)	214.0	136.1	151.6	170.5	191.5	150.4
LIVE TOTAL VOLUME (CU. FT/A)	7963	4673	4650	5502	6320	5130
CROWN COMPETITION FACTOR	204	139	166	188	203	145
RELATIVE DENSITY INDEX	54.9	37.3	43.6	49.4	53.3	40.1
MEAN DIAMETER (IN)	15.2	13.3	12.1	11.9	12.9	14.0
SITE HEIGHT (FEET)	112.5	102.3	87.7	91.7	96.4	102.2
AVERAGE CROWN RATIO (%)	38	35	41	34	39	40
AVERAGE CROWN LENGTH (FT)	38.4	32.3	33.6	29.1	34.2	37.3
DEAD TREES PER ACRE	0	10	0	10	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	6.5	0.0	6.3	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	193	0	181	0	0

PLCT SUMMARY REPORT

INSTALLATION 210 FOCK CREEK
 REGION: NORTHEAST WASHINGTON OWNERSHIP: INLAND EMPIRE
 LEGAL DESCRIPTION: T31N R43E SECTION 26 MERIDIAN: WILLAMETTE

PLCT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1981)	0#N	200#N	400#N	0#N	200#N	400#N
SECOND TREATMENT (1987)	NCNE	NCNE	N+K	N+K	N+K	200#N
MENSURATIONAL CHARACTERISTICS:						
AT TIME OF TREATMENT (1981)	STAND	AGE =	54			
LIVE TREES PER ACRE	270	340	260	220	290	250
LIVE BASAL AREA (SQ. FT/A)	132.8	168.8	146.4	133.0	139.0	139.7
LIVE TOTAL VOLUME (CU. FT/A)	2830	3635	3543	3442	3689	3671
CROWN COMPETITION FACTOR	148	182	154	150	157	159
RELATIVE DENSITY INDEX	43.1	54.6	45.9	41.0	45.4	43.9
MEAN DIAMETER (IN)	9.5	9.5	10.2	10.5	9.4	10.1
SITE HEIGHT (FEET)	60.5	62.5	70.6	72.0	77.0	77.6
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	80.2	74.9	75.2	97.8	82.1	94.2
WESTERN LARCH	0.0	0.0	0.0	2.2	2.5	3.1
LODGEPOLE PINE	0.0	0.0	3.9	0.0	12.1	2.7
PONDEROSA PINE	19.8	25.1	20.9	0.0	3.3	0.0
2 YEARS AFTER TREATMENT (1983)						
LIVE TREES PER ACRE	250	340	250	220	290	250
LIVE BASAL AREA (SQ. FT/A)	136.7	178.5	150.7	139.4	146.7	149.0
CROWN COMPETITION FACTOR	150	191	157	156	164	168
RELATIVE DENSITY INDEX	43.2	57.0	46.5	42.5	47.3	46.1
MEAN DIAMETER (IN)	10.0	9.8	10.5	10.8	9.6	10.4
DEAD TREES PER ACRE	20	0	10	0	0	0
DEAD BASAL AREA (SQ. FT/A)	1.2	0.0	3.0	0.0	0.0	0.0
4 YEARS AFTER TREATMENT (1985)						
LIVE TREES PER ACRE	250	310	230	220	270	210
LIVE BASAL AREA (SQ. FT/A)	143.5	179.5	148.5	145.4	147.4	140.4
LIVE TOTAL VOLUME (CU. FT/A)	3317	4214	3856	4000	4179	3950
CROWN COMPETITION FACTOR	155	191	154	160	163	156
RELATIVE DENSITY INDEX	44.8	55.9	45.0	43.8	46.6	42.2
MEAN DIAMETER (IN)	10.3	10.3	10.9	11.0	10.0	11.1
SITE HEIGHT (FEET)	65.6	68.8	76.8	77.1	82.4	83.7
AVERAGE CROWN RATIO (%)	47	46	42	40	36	38
AVERAGE CROWN LENGTH (FT)	25.2	25.7	25.6	28.6	23.3	26.1
DEAD TREES PER ACRE	20	30	30	0	20	40
DEAD BASAL AREA (SQ. FT/A)	1.2	9.5	11.8	0.0	5.8	15.9
DEAD TOTAL VOLUME (CU. FT/A)	11	183	293	3	142	396
6 YEARS AFTER TREATMENT (1987)						
LIVE TREES PER ACRE	250	310	210	220	270	190
LIVE BASAL AREA (SQ. FT/A)	148.7	188.2	142.4	151.3	154.2	142.6
LIVE TOTAL VOLUME (CU. FT/A)	3525	4532	3746	4260	4491	4105
CROWN COMPETITION FACTOR	159	198	148	165	168	156
RELATIVE DENSITY INDEX	46.0	57.9	42.6	45.1	48.2	41.6
MEAN DIAMETER (IN)	10.4	10.5	11.1	11.2	10.2	11.7
SITE HEIGHT (FEET)	67.1	70.8	78.8	79.4	85.1	86.0
DEAD TREES PER ACRE	20	30	50	0	20	60
DEAD BASAL AREA (SQ. FT/A)	1.2	9.5	23.3	0.0	5.8	21.3
DEAD TOTAL VOLUME (CU. FT/A)	11	183	629	3	142	540
8 YEARS AFTER TREATMENT (1989)						
LIVE TREES PER ACRE	240	310	210	220	260	190
LIVE BASAL AREA (SQ. FT/A)	152.1	194.6	147.9	158.4	160.8	150.7
LIVE TOTAL VOLUME (CU. FT/A)	3726	4804	3985	4585	4813	4454
CROWN COMPETITION FACTOR	162	204	152	170	173	163
RELATIVE DENSITY INDEX	46.3	59.4	43.9	46.7	49.3	43.4
MEAN DIAMETER (IN)	10.8	10.7	11.4	11.5	10.6	12.1
SITE HEIGHT (FEET)	69.7	73.1	81.1	82.1	87.6	88.9
AVERAGE CROWN RATIO (%)	46	45	39	38	38	38
AVERAGE CROWN LENGTH (FT)	29.0	28.9	25.5	28.7	28.2	30.6
DEAD TREES PER ACRE	30	30	50	0	30	60
DEAD BASAL AREA (SQ. FT/A)	2.2	9.5	23.3	0.0	6.5	21.3
DEAD TOTAL VOLUME (CU. FT/A)	26	183	629	3	150	540

PLCT SUMMARY REPORT

INSTALLATION 211 HELL CREEK

REGION: NORTHEAST WASHINGTON

OWNERSHIP: INLAND EMPIRE

LEGAL DESCRIPTION: T31N R43E SECTION 20

MERIDIAN: WILLAMETTE

PLCT NUMBER

INITIAL TREATMENT (1981)

SECOND TREATMENT (1987)

1	2	3	4	5	6
0#N	200#N	400#N	400#N	200#N	0#N
NCNE	200#N	200#N	NONE	N+R	N+R

MENSURATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1981)

STAND AGE = 34

LIVE TREES PER ACRE	460	490	470	410	460	520
LIVE BASAL AREA (SQ-FT/A)	166.0	171.9	152.7	182.9	176.8	181.9
LIVE TOTAL VOLUME (CU-FT/A)	3574	3813	3367	4266	3810	3884
CROWN COMPETITION FACTOR	205	212	187	212	210	223
RELATIVE DENSITY INDEX	58.2	60.7	55.0	60.8	61.7	64.3
MEAN DIAMETER (IN)	8.1	8.0	7.7	9.0	8.2	8.0
SITE HEIGHT (FEET)	65.7	64.4	64.5	69.7	66.6	60.8
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	99.2	98.3	90.9	94.9	86.1	97.2
GRAND FIR	0.0	0.0	0.0	0.0	2.4	0.0
WESTERN LARCH	0.0	1.7	0.0	0.0	0.0	0.0
LADGEPOL PINE	0.0	0.0	0.0	1.4	0.0	0.0
WESTERN WHITE PINE	0.0	0.0	0.0	2.5	0.0	0.6
PCNDEBOSA PINE	0.8	0.0	9.1	1.1	11.5	2.2

2 YEARS AFTER TREATMENT (1983)

LIVE TREES PER ACRE	460	490	460	390	480	520
LIVE BASAL AREA (SQ-FT/A)	178.3	190.4	166.5	199.2	194.1	199.5
CROWN COMPETITION FACTOR	217	229	203	227	227	239
RELATIVE DENSITY INDEX	61.4	65.5	58.3	64.0	66.2	68.9
MEAN DIAMETER (IN)	8.4	8.4	8.1	9.7	8.6	8.4
DEAD TREES PER ACRE	0.0	0.0	10	20	0	0
DEAD BASAL AREA (SQ-FT/A)	0.0	0.0	3.4	4.5	0.0	0.0

4 YEARS AFTER TREATMENT (1985)

LIVE TREES PER ACRE	460	470	390	270	460	510
LIVE BASAL AREA (SQ-FT/A)	190.8	202.4	166.3	182.5	208.0	214.2
LIVE TOTAL VOLUME (CU-FT/A)	4435	4855	3971	4664	4972	4948
CROWN COMPETITION FACTOR	229	241	196	201	236	253
RELATIVE DENSITY INDEX	64.6	67.9	55.9	54.7	68.9	72.3
MEAN DIAMETER (IN)	8.7	8.9	8.8	11.1	9.1	8.8
SITE HEIGHT (FEET)	70.9	70.1	72.4	75.6	72.5	67.7
AVERAGE CROWN RATIO (%)	46	44	49	48	54	47
AVERAGE CROWN LENGTH (FT)	25.5	25.8	27.4	28.8	28.4	26.0
DEAD TREES PER ACRE	0.0	20	80	140	20	10
DEAD BASAL AREA (SQ-FT/A)	0.0	4.7	20.0	36.3	2.8	1.1
DEAD TOTAL VOLUME (CU-FT/A)	1	93	432	812	44	20

6 YEARS AFTER TREATMENT (1987)

LIVE TREES PER ACRE	450	430	380	260	450	500
LIVE BASAL AREA (SQ-FT/A)	200.9	206.8	176.8	191.3	220.9	227.3
LIVE TOTAL VOLUME (CU-FT/A)	4826	5076	4340	5061	5451	5424
CROWN COMPETITION FACTOR	238	241	205	206	246	265
RELATIVE DENSITY INDEX	66.8	67.5	58.2	56.1	71.7	75.2
MEAN DIAMETER (IN)	9.0	9.4	9.2	11.6	9.5	9.1
SITE HEIGHT (FEET)	73.6	72.8	74.8	78.9	74.9	70.5
DEAD TREES PER ACRE	10	60	90	150	30	20
DEAD BASAL AREA (SQ-FT/A)	1.3	13.1	22.6	40.7	3.7	2.3
DEAD TOTAL VOLUME (CU-FT/A)	25	316	483	914	56	40

8 YEARS AFTER TREATMENT (1989)

LIVE TREES PER ACRE	430	400	350	220	420	490
LIVE BASAL AREA (SQ-FT/A)	207.7	208.9	182.9	185.9	227.7	232.1
LIVE TOTAL VOLUME (CU-FT/A)	5167	5277	4616	5120	5849	5706
CROWN COMPETITION FACTOR	244	238	209	194	248	267
RELATIVE DENSITY INDEX	67.7	66.8	58.5	52.7	72.1	76.0
MEAN DIAMETER (IN)	9.4	9.8	9.8	12.4	10.0	9.3
SITE HEIGHT (FEET)	76.3	75.3	77.8	81.2	78.4	72.7
AVERAGE CROWN RATIO (%)	41	41	47	45	50	44
AVERAGE CROWN LENGTH (FT)	25.8	27.3	30.3	33.4	31.7	27.8
DEAD TREES PER ACRE	30	90	120	190	60	30
DEAD BASAL AREA (SQ-FT/A)	4.8	25.0	29.9	57.3	11.3	12.8
DEAD TOTAL VOLUME (CU-FT/A)	87	600	660	1292	215	310

FLCT SUMMARY REPORT

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INSTALLATION 212 SWAMP CREEK
 REGION: NORTHEAST OREGON CWNERSHIP: BCISE CASCADE
 LEGAL DESCRIPTION: T1N R45E SECTION 5 MERIDIAN: WILLAMETTE

PLOT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1981)	400#N	200#N	0#N	400#N	200#N	0#N
SECOND TREATMENT (1987)	200#N	200#N	NCNE	NONE	NCNE	N+K

MENSURATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1981)	STAND	AGE =	71			
LIVE TREES PER ACRE	190	210	180	190	220	190
LIVE BASAL AREA (SQ. FT/A)	71.0	88.6	97.5	86.0	71.6	71.9
LIVE TOTAL VOLUME (CU. FT/A)	1618	2090	2349	1956	1532	1658
CROWN COMPETITION FACTOR	89	109	111	102	91	87
RELATIVE DENSITY INDEX	24.7	29.9	30.9	28.5	25.8	24.9
MEAN DIAMETER (IN)	8.3	8.8	10.0	9.1	7.7	8.3
SITE HEIGHT (FEET)	62.0	64.9	70.1	63.6	60.3	64.6
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	100.0	100.0	92.7	95.6	100.0	89.6
WESTERN LARCH	0.0	0.0	0.0	4.4	0.0	10.4
PONDEROSA PINE	0.0	0.0	7.3	0.0	0.0	0.0

2 YEARS AFTER TREATMENT (1983)

LIVE TREES PER ACRE	190	210	180	190	220	190
LIVE BASAL AREA (SQ. FT/A)	78.2	95.6	102.5	93.7	81.0	78.6
CROWN COMPETITION FACTOR	95	115	116	109	101	95
RELATIVE DENSITY INDEX	26.5	31.6	32.1	30.4	28.3	26.6
MEAN DIAMETER (IN)	8.7	9.1	10.2	9.5	8.2	8.7
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1985)

LIVE TREES PER ACRE	190	210	180	190	220	190
LIVE BASAL AREA (SQ. FT/A)	83.3	101.7	107.6	99.5	87.9	84.5
LIVE TOTAL VOLUME (CU. FT/A)	2011	2530	2739	2414	2005	2063
CROWN COMPETITION FACTOR	101	122	123	114	108	102
RELATIVE DENSITY INDEX	27.8	33.1	33.3	31.8	30.0	28.1
MEAN DIAMETER (IN)	9.0	9.4	10.5	9.8	8.6	9.0
SITE HEIGHT (FEET)	66.8	69.5	74.5	68.7	64.9	68.9
AVERAGE CROWN RATIO (%)	45	44	52	51	49	47
AVERAGE CROWN LENGTH (FT)	26.9	27.0	32.5	30.5	26.8	28.8
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	0	0	0

6 YEARS AFTER TREATMENT (1987)

LIVE TREES PER ACRE	190	210	180	190	220	190
LIVE BASAL AREA (SQ. FT/A)	88.0	107.3	112.8	105.0	94.3	90.4
LIVE TOTAL VOLUME (CU. FT/A)	2163	2721	2926	2599	2201	2244
CROWN COMPETITION FACTOR	107	128	127	118	114	107
RELATIVE DENSITY INDEX	29.0	34.5	34.5	33.1	31.7	29.6
MEAN DIAMETER (IN)	9.2	9.7	10.7	10.1	8.9	9.3
SITE HEIGHT (FEET)	68.4	71.4	76.1	70.2	66.7	70.5
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	0	0	0

8 YEARS AFTER TREATMENT (1989)

LIVE TREES PER ACRE	190	210	180	190	220	190
LIVE BASAL AREA (SQ. FT/A)	92.1	113.1	117.9	109.8	99.9	96.9
LIVE TOTAL VOLUME (CU. FT/A)	2300	2906	3129	2773	2375	2455
CROWN COMPETITION FACTOR	110	135	131	123	121	114
RELATIVE DENSITY INDEX	30.0	35.9	35.6	34.2	33.1	31.1
MEAN DIAMETER (IN)	9.4	9.9	11.0	10.3	9.1	9.7
SITE HEIGHT (FEET)	69.6	72.6	78.1	72.1	68.4	72.3
AVERAGE CROWN RATIO (%)	51	50	57	58	54	52
AVERAGE CROWN LENGTH (FT)	31.6	33.3	37.7	36.8	30.9	32.7
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	1	0	0	0	0

PLOT SUMMARY REPORT

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INSTALLATION 213 KAMELA

REGION: NORTHEAST OREGON

LEGAL DESCRIPTION: T2S R35E SECTION 3 OWNERSHIP: BOISE CASCADE

MERIDIAN: WILLAMETTE

PLOT NUMBER

INITIAL TREATMENT (1981)

SECOND TREATMENT (1987)

1	2	3	4	5	6
0#N	400#N	200#N	0#N	200#N	400#N
NONE	N+K	N+K	N+K	NONE	NONE

MENSURATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1981)

STAND AGE = .

LIVE TREES PER ACRE	140	160	110	100	130	90
LIVE BASAL AREA (SQ.FT/A)	106.4	106.6	92.5	107.3	93.4	66.7
LIVE TOTAL VOLUME (CU.FT/A)	3515	3147	2897	3470	2734	1988
CROWN COMPETITION FACTOR	117	109	94	100	94	89
RELATIVE DENSITY INDEX	31.0	32.1	26.3	28.6	27.6	19.5
MEAN DIAMETER (IN)	11.8	11.0	12.4	14.0	11.5	11.7
SITE HEIGHT (FEET)	96.0	91.9	93.7	94.1	86.8	91.4
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	17.6	13.8	41.1	20.9	42.3	30.0
GRAND FIR	44.8	22.8	15.0	21.1	9.8	16.0
WESTERN LARCH	33.6	59.6	43.9	48.3	45.3	54.0
ENGELMANN SPRUCE	3.9	3.7	0.0	9.5	2.6	0.0

2 YEARS AFTER TREATMENT (1983)

LIVE TREES PER ACRE	140	160	110	100	130	90
LIVE BASAL AREA (SQ.FT/A)	111.2	114.8	98.6	111.5	98.1	71.2
CROWN COMPETITION FACTOR	120	115	97	103	98	72
RELATIVE DENSITY INDEX	32.0	33.9	27.5	29.5	28.6	20.5
MEAN DIAMETER (IN)	12.1	11.5	12.8	14.3	11.8	12.0
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ.FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1985)

LIVE TREES PER ACRE	120	150	110	100	100	80
LIVE BASAL AREA (SQ.FT/A)	102.6	116.3	105.1	115.6	78.2	66.6
LIVE TOTAL VOLUME (CU.FT/A)	3530	3566	3391	3837	2207	2021
CROWN COMPETITION FACTOR	110	114	102	107	80	67
RELATIVE DENSITY INDEX	29.0	33.7	28.9	30.3	22.2	19.0
MEAN DIAMETER (IN)	12.5	11.7	13.2	14.6	11.8	12.4
SITE HEIGHT (FEET)	95.6	95.4	97.1	96.6	81.1	95.3
AVERAGE CROWN RATIO (%)	33	37	38	38	34	40
AVERAGE CROWN LENGTH (FT)	26.9	29.8	32.2	33.9	27.1	30.1
DEAD TREES PER ACRE	20	10	0	0	30	10
DEAD BASAL AREA (SQ.FT/A)	13.8	5.6	0.0	0.0	26.6	8.5
DEAD TOTAL VOLUME (CU.FT/A)	408	166	0	0	839	265

6 YEARS AFTER TREATMENT (1987)

LIVE TREES PER ACRE	120	150	110	100	100	60
LIVE BASAL AREA (SQ.FT/A)	105.7	122.7	110.2	119.7	80.2	59.0
LIVE TOTAL VOLUME (CU.FT/A)	3660	3807	3611	4030	2349	1875
CROWN COMPETITION FACTOR	112	120	106	109	83	55
RELATIVE DENSITY INDEX	29.7	35.1	29.9	31.1	23.0	16.1
MEAN DIAMETER (IN)	12.7	12.3	13.6	14.8	12.1	13.4
SITE HEIGHT (FEET)	96.5	96.5	98.6	98.0	82.2	97.0
DEAD TREES PER ACRE	20	10	0	0	30	30
DEAD BASAL AREA (SQ.FT/A)	13.8	5.6	0.0	0.0	26.6	18.2
DEAD TOTAL VOLUME (CU.FT/A)	408	166	0	0	837	502

8 YEARS AFTER TREATMENT (1989)

LIVE TREES PER ACRE	120	150	110	100	110	60
LIVE BASAL AREA (SQ.FT/A)	108.4	129.1	115.6	125.1	94.2	61.0
LIVE TOTAL VOLUME (CU.FT/A)	3787	4066	3847	4266	2839	1957
CROWN COMPETITION FACTOR	114	125	110	112	95	58
RELATIVE DENSITY INDEX	30.2	36.4	31.0	32.1	26.6	16.5
MEAN DIAMETER (IN)	12.9	12.6	13.9	15.1	12.5	13.8
SITE HEIGHT (FEET)	97.3	97.9	100.2	99.1	84.1	97.9
AVERAGE CROWN RATIO (%)	44	46	48	47	46	49
AVERAGE CROWN LENGTH (FT)	37.0	38.8	43.0	43.4	34.9	40.8
DEAD TREES PER ACRE	20	10	0	0	20	30
DEAD BASAL AREA (SQ.FT/A)	13.8	5.6	0.0	0.0	15.6	18.2
DEAD TOTAL VOLUME (CU.FT/A)	408	166	0	0	456	502

PLOT SUMMARY REPORT

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INSTALLATION 214 FIFTEENMILE CREEK #1
 REGION: NORTHEAST WASHINGTON OWNERSHIP: BOISE CASCADE
 LEGAL DESCRIPTION: T39N R37E SECTION 25 MERIDIAN: WILLAMETTE

PLOT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1981)	200#N	0#N	400#N	0#N	200#N	400#N
SECOND TREATMENT (1987)	200#N	NCNE	NONE	A+K	NCNE	200#N

MENSURATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1981)	STAND	AGE = 50				
LIVE TREES PER ACRE	220	170	260	160	190	210
LIVE BASAL AREA (SQ.FT/A)	65.5	59.6	112.0	93.5	97.2	92.3
LIVE TOTAL VOLUME (CU.FT/A)	1331	1560	2517	2056	2283	1983
CROWN COMPETITION FACTOR	84	108	137	108	117	113
RELATIVE DENSITY INDEX	24.1	28.6	37.6	29.1	31.2	30.8
MEAN DIAMETER (IN)	7.4	9.8	8.9	10.3	9.7	9.0
SITE HEIGHT (FEET)	56.6	62.6	65.5	63.8	65.2	59.5
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	94.9	97.5	100.0	91.4	100.0	100.0
GRAND FIR	0.0	2.5	0.0	4.9	0.0	0.0
WESTERN REDCEDAR	0.0	0.0	0.0	3.7	0.0	0.0
WESTERN LARCH	5.1	0.0	0.0	0.0	0.0	0.0

2 YEARS AFTER TREATMENT (1983)

LIVE TREES PER ACRE	220	170	260	160	190	210
LIVE BASAL AREA (SQ.FT/A)	77.3	100.0	127.2	105.2	108.1	104.3
CROWN COMPETITION FACTOR	96	117	152	119	129	125
RELATIVE DENSITY INDEX	27.3	31.0	41.3	31.8	33.6	33.8
MEAN DIAMETER (IN)	9.0	10.4	9.5	11.0	10.2	9.5
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ.FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1985)

LIVE TREES PER ACRE	220	170	260	160	190	210
LIVE BASAL AREA (SQ.FT/A)	88.0	110.8	143.0	116.2	119.8	117.4
LIVE TOTAL VOLUME (CU.FT/A)	1954	2649	3473	2811	3035	2750
CROWN COMPETITION FACTOR	108	125	167	123	139	138
RELATIVE DENSITY INDEX	30.1	33.5	45.1	34.2	36.5	36.9
MEAN DIAMETER (IN)	8.6	10.9	10.0	11.5	10.6	10.1
SITE HEIGHT (FEET)	63.3	69.0	71.7	71.0	71.0	65.9
AVERAGE CROWN RATIO (%)	43	53	46	54	47	45
AVERAGE CROWN LENGTH (FT)	23.4	32.4	27.9	36.2	31.0	27.1
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ.FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU.FT/A)	0	0	0	0	0	0

6 YEARS AFTER TREATMENT (1987)

LIVE TREES PER ACRE	220	170	260	160	190	210
LIVE BASAL AREA (SQ.FT/A)	96.0	119.8	155.2	125.9	123.0	126.9
LIVE TOTAL VOLUME (CU.FT/A)	2155	2957	3870	3135	3326	3047
CROWN COMPETITION FACTOR	115	134	177	137	147	147
RELATIVE DENSITY INDEX	32.1	35.5	48.0	36.3	38.4	39.1
MEAN DIAMETER (IN)	8.9	11.4	10.5	12.0	11.1	10.5
SITE HEIGHT (FEET)	65.7	71.6	74.3	73.5	73.2	67.2
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ.FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU.FT/A)	0	0	0	0	0	0

8 YEARS AFTER TREATMENT (1989)

LIVE TREES PER ACRE	220	170	250	160	190	210
LIVE BASAL AREA (SQ.FT/A)	105.7	127.6	162.9	135.9	134.9	135.9
LIVE TOTAL VOLUME (CU.FT/A)	2507	3233	4182	3472	3554	3349
CROWN COMPETITION FACTOR	124	140	185	146	154	155
RELATIVE DENSITY INDEX	34.5	37.3	49.3	38.5	39.9	41.2
MEAN DIAMETER (IN)	9.4	11.7	10.9	12.5	11.4	10.9
SITE HEIGHT (FEET)	68.3	73.7	76.1	75.9	75.3	70.1
AVERAGE CROWN RATIO (%)	48	51	48	62	52	54
AVERAGE CROWN LENGTH (FT)	28.4	33.3	31.4	40.3	36.0	34.3
DEAD TREES PER ACRE	0	0	10	0	0	0
DEAD BASAL AREA (SQ.FT/A)	0.0	0.0	1.7	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU.FT/A)	0	0	28	0	0	0

PLOT SUMMARY REPORT

INSTALLATION 215 FIFTEENMILE CREEK #2
 REGION: NORTHEAST WASHINGTON OWNERSHIP: BOISE CASCADE
 LEGAL DESCRIPTION: T39N R37E SECTION 25 MERIDIAN: WILLAMETTE

PLOT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1981)	0#N	200#N	400#N	200#N	400#N	0#N
SECOND TREATMENT (1987)	N+K	200#N	N+K	NCNC	200#N	NCNE
MENSURATIONAL CHARACTERISTICS:						
AT TIME OF TREATMENT (1981)	STAND AGE = 51					
LIVE TREES PER ACRE	180	220	140	240	260	240
LIVE BASAL AREA (SQ.FT/A)	64.5	69.9	57.7	89.4	90.3	66.7
LIVE TOTAL VOLUME (CU.FT/A)	1305	1427	1208	1959	1970	1266
CROWN COMPETITION FACTOR	31	89	71	112	115	88
RELATIVE DENSITY INDEX	22.7	25.3	15.6	31.1	32.0	25.0
MEAN DIAMETER (IN)	8.1	7.6	8.7	8.3	8.0	7.1
SITE HEIGHT (FEET)	56.6	55.2	54.3	64.9	63.3	50.4
SPECIES COMPOSITION (% LF BA)						
DOUGLAS-FIR	100.0	100.0	100.0	100.0	100.0	100.0
2 YEARS AFTER TREATMENT (1983)						
LIVE TREES PER ACRE	180	220	140	240	260	240
LIVE BASAL AREA (SQ.FT/A)	73.0	84.2	69.0	104.0	103.2	78.4
CROWN COMPETITION FACTOR	92	104	83	127	128	100
RELATIVE DENSITY INDEX	24.8	29.1	22.4	34.8	35.3	28.2
MEAN DIAMETER (IN)	8.6	8.4	9.5	8.9	8.5	7.7
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ.FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
4 YEARS AFTER TREATMENT (1985)						
LIVE TREES PER ACRE	180	220	140	240	260	240
LIVE BASAL AREA (SQ.FT/A)	82.3	97.2	80.4	118.3	116.5	89.6
LIVE TOTAL VOLUME (CU.FT/A)	1796	2147	1844	2795	2778	1876
CROWN COMPETITION FACTOR	100	119	97	143	141	112
RELATIVE DENSITY INDEX	27.2	32.4	25.1	38.4	38.7	31.1
MEAN DIAMETER (IN)	9.4	9.0	10.3	9.5	9.1	8.3
SITE HEIGHT (FEET)	61.9	61.3	61.4	71.0	69.9	57.8
AVERAGE CROWN RATIO (%)	51	51	54	48	46	50
AVERAGE CROWN LENGTH (FT)	26.8	27.6	32.2	28.7	27.3	26.0
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ.FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU.FT/A)	0	0	0	0	0	0
6 YEARS AFTER TREATMENT (1987)						
LIVE TREES PER ACRE	180	220	140	240	260	240
LIVE BASAL AREA (SQ.FT/A)	89.8	105.7	88.7	129.3	126.2	98.5
LIVE TOTAL VOLUME (CU.FT/A)	2018	2394	2098	3135	3052	2134
CROWN COMPETITION FACTOR	108	131	104	155	152	122
RELATIVE DENSITY INDEX	29.0	34.5	27.0	41.1	41.1	33.4
MEAN DIAMETER (IN)	9.6	9.4	10.8	9.9	9.4	8.7
SITE HEIGHT (FEET)	64.0	63.4	63.8	70.1	72.2	60.2
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ.FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU.FT/A)	0	0	0	0	0	0
8 YEARS AFTER TREATMENT (1989)						
LIVE TREES PER ACRE	180	210	140	240	260	240
LIVE BASAL AREA (SQ.FT/A)	98.0	109.8	96.4	138.1	134.7	106.0
LIVE TOTAL VOLUME (CU.FT/A)	2261	2564	2353	3436	3410	2389
CROWN COMPETITION FACTOR	115	134	112	163	160	131
RELATIVE DENSITY INDEX	31.0	35.1	28.8	43.1	43.1	35.5
MEAN DIAMETER (IN)	10.0	9.8	11.2	10.3	9.8	9.0
SITE HEIGHT (FEET)	66.4	65.6	66.1	72.1	72.4	62.4
AVERAGE CROWN RATIO (%)	53	52	57	45	48	52
AVERAGE CROWN LENGTH (FT)	30.3	30.6	36.5	28.5	30.4	29.5
DEAD TREES PER ACRE	0	10	0	0	0	0
DEAD BASAL AREA (SQ.FT/A)	0.0	4.6	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU.FT/A)	0	111	0	0	0	0

PLOT SUMMARY REPORT

INSTALLATION 216 SCHMIDT MEADOWS
 REGION: NORTHEAST WASHINGTON OWNERSHIP: BCISE CASCADE
 LEGAL DESCRIPTION: T32N R38E SECTION 28 MERIDIAN: WILLABETTE

PLOT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1981)	0#N	200#N	400#N	400#N	200#N	0#N
SECOND TREATMENT (1987)	N+K	NONE	N+K	NCNE	N+K	NONE

MENSURATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1981)	STAND	AGE = 66				
LIVE TREES PER ACRE	320	230	250	320	270	290
LIVE BASAL AREA (SQ. FT/A)	154.5	138.7	153.7	135.1	117.8	157.4
LIVE TOTAL VOLUME (CU. FT/A)	4138	3610	4218	3494	3255	4097
CROWN COMPETITION FACTOR	182	153	170	162	144	179
RELATIVE DENSITY INDEX	50.4	42.8	47.2	45.5	39.4	49.8
MEAN DIAMETER (IN)	9.4	10.5	10.6	8.8	8.9	10.0
SITE HEIGHT (FEET)	75.1	70.7	72.3	71.8	78.4	75.1
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	90.1	73.9	78.9	88.5	98.0	84.8
WESTERN LARCH	0.0	13.6	0.0	2.4	2.0	5.8
PONDEROSA PINE	9.9	12.4	21.1	9.0	0.0	9.4

2 YEARS AFTER TREATMENT (1983)

LIVE TREES PER ACRE	320	230	250	320	270	290
LIVE BASAL AREA (SQ. FT/A)	161.9	146.7	162.1	143.5	124.6	163.0
CROWN COMPETITION FACTOR	189	162	177	169	149	184
RELATIVE DENSITY INDEX	52.2	44.6	49.1	47.7	41.1	51.1
MEAN DIAMETER (IN)	9.6	10.8	10.9	9.1	9.2	10.1
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1985)

LIVE TREES PER ACRE	300	220	230	310	240	270
LIVE BASAL AREA (SQ. FT/A)	164.0	148.6	160.4	148.1	123.8	162.9
LIVE TOTAL VOLUME (CU. FT/A)	4683	4221	4735	4068	3707	4505
CROWN COMPETITION FACTOR	190	160	173	174	145	182
RELATIVE DENSITY INDEX	51.8	44.5	47.7	48.4	39.7	50.2
MEAN DIAMETER (IN)	10.0	11.1	11.3	9.4	9.7	10.5
SITE HEIGHT (FEET)	81.1	77.4	79.1	77.4	84.6	81.7
AVERAGE CROWN RATIO (%)	40	44	43	35	34	40
AVERAGE CROWN LENGTH (FT)	28.3	32.0	32.7	24.4	25.6	27.5
DEAD TREES PER ACRE	20	10	20	10	30	20
DEAD BASAL AREA (SQ. FT/A)	6.4	6.2	10.3	5.1	7.9	7.7
DEAD TOTAL VOLUME (CU. FT/A)	200	162	284	142	202	213

6 YEARS AFTER TREATMENT (1987)

LIVE TREES PER ACRE	300	220	230	310	230	260
LIVE BASAL AREA (SQ. FT/A)	171.9	155.6	167.8	156.3	127.8	165.5
LIVE TOTAL VOLUME (CU. FT/A)	5009	4524	5056	4387	3928	4691
CROWN COMPETITION FACTOR	197	167	180	182	148	182
RELATIVE DENSITY INDEX	53.7	46.1	49.3	50.4	40.2	50.3
MEAN DIAMETER (IN)	10.3	11.4	11.6	9.6	10.1	10.8
SITE HEIGHT (FEET)	82.5	79.7	81.2	79.5	86.7	84.1
DEAD TREES PER ACRE	20	10	20	10	40	30
DEAD BASAL AREA (SQ. FT/A)	6.4	6.2	10.3	5.1	10.6	12.1
DEAD TOTAL VOLUME (CU. FT/A)	200	162	284	142	267	323

8 YEARS AFTER TREATMENT (1989)

LIVE TREES PER ACRE	300	220	220	290	230	260
LIVE BASAL AREA (SQ. FT/A)	178.4	159.7	168.8	154.1	134.0	170.3
LIVE TOTAL VOLUME (CU. FT/A)	5318	4751	5207	4393	4214	4924
CROWN COMPETITION FACTOR	205	170	181	180	153	186
RELATIVE DENSITY INDEX	55.2	47.0	49.0	49.0	41.7	51.4
MEAN DIAMETER (IN)	10.4	11.5	11.9	9.9	10.3	11.0
SITE HEIGHT (FEET)	83.5	81.4	83.1	81.1	88.8	85.9
AVERAGE CROWN RATIO (%)	42	43	46	35	37	38
AVERAGE CROWN LENGTH (FT)	31.1	33.0	36.6	26.6	30.5	28.7
DEAD TREES PER ACRE	20	10	30	30	40	30
DEAD BASAL AREA (SQ. FT/A)	6.4	6.2	15.1	12.8	10.6	12.1
DEAD TOTAL VOLUME (CU. FT/A)	200	162	407	363	267	323

PLCT SUMMARY REPORT

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INSTALLATION 217 EMANUEL CREEK
 REGION: NORTHEAST WASHINGTON OWNERSHIP: BCISE CASCADE
 LEGAL DESCRIPTION: T39N R33E SECTION 29 MERIDIAN: WILLAMETTE

PLOT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1981)	200#N	0#N	400#N	400#N	0#N	200#N
SECOND TREATMENT (1987)	NCNE	NCNE	N+K	NCNE	N+K	N+K
MENSURATIONAL CHARACTERISTICS:						
AT TIME OF TREATMENT (1981)	STAND	AGE =	75			
LIVE TREES PER ACRE	270	260	120	230	250	180
LIVE BASAL AREA (SQ.FT/A)	115.8	121.8	102.5	121.2	142.9	77.6
LIVE TOTAL VOLUME (CU.FT/A)	2630	2989	2884	2933	3456	1739
CROWN COMPETITION FACTOR	140	144	109	143	162	94
RELATIVE DENSITY INDEX	38.9	40.0	29.0	38.7	44.7	26.0
MEAN DIAMETER (IN)	8.9	9.3	12.5	9.8	10.2	9.9
SITE HEIGHT (FEET)	67.2	72.9	81.1	67.1	72.0	62.0
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	96.1	92.4	100.0	100.0	100.0	93.0
WESTERN LARCH	3.9	7.5	0.0	0.0	0.0	6.4
2 YEARS AFTER TREATMENT (1983)						
LIVE TREES PER ACRE	270	260	120	230	250	180
LIVE BASAL AREA (SQ.FT/A)	127.2	130.3	111.2	135.1	151.1	86.3
CROWN COMPETITION FACTOR	151	151	116	150	170	102
RELATIVE DENSITY INDEX	41.7	42.1	30.8	41.7	46.6	28.2
MEAN DIAMETER (IN)	9.3	9.6	13.0	10.4	10.5	9.4
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ.FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
4 YEARS AFTER TREATMENT (1985)						
LIVE TREES PER ACRE	270	260	120	230	250	170
LIVE BASAL AREA (SQ.FT/A)	136.0	137.2	117.4	145.4	158.1	91.4
LIVE TOTAL VOLUME (CU.FT/A)	3327	3564	3524	3738	4049	2198
CROWN COMPETITION FACTOR	161	159	120	165	176	103
RELATIVE DENSITY INDEX	43.9	43.7	32.1	44.3	48.2	29.0
MEAN DIAMETER (IN)	9.6	9.8	13.4	10.8	10.8	9.9
SITE HEIGHT (FEET)	72.9	76.9	87.2	72.2	77.4	68.2
AVERAGE CROWN RATIO (%)	44	42	44	43	47	51
AVERAGE CROWN LENGTH (FT)	27.0	27.8	35.0	31.7	30.2	30.9
DEAD TREES PER ACRE	0	0	0	0	0	10
DEAD BASAL AREA (SQ.FT/A)	0.0	0.0	0.0	0.0	0.0	1.4
DEAD TOTAL VOLUME (CU.FT/A)	0	0	0	0	0	28
6 YEARS AFTER TREATMENT (1987)						
LIVE TREES PER ACRE	260	260	120	230	250	170
LIVE BASAL AREA (SQ.FT/A)	142.1	144.0	123.8	154.5	165.5	99.1
LIVE TOTAL VOLUME (CU.FT/A)	3595	3827	3812	4084	4352	2452
CROWN COMPETITION FACTOR	165	164	125	173	182	115
RELATIVE DENSITY INDEX	44.9	45.3	33.4	46.4	49.9	30.8
MEAN DIAMETER (IN)	10.0	10.1	13.8	11.1	11.0	10.3
SITE HEIGHT (FEET)	75.6	78.6	89.7	74.9	79.7	70.4
DEAD TREES PER ACRE	10	0	0	0	0	10
DEAD BASAL AREA (SQ.FT/A)	1.4	0.0	0.0	0.0	0.0	1.4
DEAD TOTAL VOLUME (CU.FT/A)	21	0	0	0	0	28
8 YEARS AFTER TREATMENT (1989)						
LIVE TREES PER ACRE	260	260	120	230	250	170
LIVE BASAL AREA (SQ.FT/A)	147.1	147.5	127.8	160.9	172.2	105.8
LIVE TOTAL VOLUME (CU.FT/A)	3791	4022	4030	4345	4642	2688
CROWN COMPETITION FACTOR	170	167	123	178	189	121
RELATIVE DENSITY INDEX	46.1	46.2	34.2	47.8	51.4	32.4
MEAN DIAMETER (IN)	10.2	10.2	14.0	11.3	11.2	10.7
SITE HEIGHT (FEET)	76.7	81.3	91.7	76.6	81.8	72.9
AVERAGE CROWN RATIO (%)	47	42	45	46	45	53
AVERAGE CROWN LENGTH (FT)	30.3	29.2	38.4	32.5	31.0	34.7
DEAD TREES PER ACRE	10	0	0	0	0	10
DEAD BASAL AREA (SQ.FT/A)	1.4	0.0	0.0	0.0	0.0	1.4
DEAD TOTAL VOLUME (CU.FT/A)	21	0	0	0	0	28

PLCT SUMMARY REPORT

INSTALLATION 218 SECOND CREEK
 REGION: NORTHEAST WASHINGTON COWNEESHIP: BOISE CASCADE
 LEGAL DESCRIPTION: T39N R34E SECTION 13 MERIDIAN: WILLAMETTE

PLOT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1981)	400#N	200#N	0#N	200#N	400#N	0#N
SECOND TREATMENT (1987)	NONE	200#N	NONE	NONE	200#N	N+K

MENSURATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1981)	STAND AGE = 100					
LIVE TREES PER ACRE	150	170	170	130	120	170
LIVE BASAL AREA (SQ. FT/A)	92.2	102.7	92.0	90.5	79.8	111.0
LIVE TOTAL VOLUME (CU. FT/A)	2215	2426	1924	2276	1893	2747
CROWN COMPETITION FACTOR	102	120	109	101	90	124
RELATIVE DENSITY INDEX	28.3	31.7	29.1	26.9	24.0	33.5
MEAN DIAMETER (IN)	10.6	10.5	10.0	11.3	11.0	10.9
SITE HEIGHT (FEET)	69.8	64.0	57.6	72.3	66.8	70.7
SPECIES COMPOSITION (% OF EA)						
DOUGLAS-FIR	95.6	100.0	100.0	100.0	100.0	95.2
WESTERN LARCH	4.4	0.0	0.0	0.0	0.0	4.8

2 YEARS AFTER TREATMENT (1983)

LIVE TREES PER ACRE	150	170	170	130	120	170
LIVE BASAL AREA (SQ. FT/A)	103.0	113.4	100.6	98.3	89.0	122.2
CROWN COMPETITION FACTOR	112	132	118	109	100	134
RELATIVE DENSITY INDEX	30.8	34.1	31.2	28.6	26.1	36.1
MEAN DIAMETER (IN)	11.2	11.1	10.4	11.8	11.7	11.5
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1985)

LIVE TREES PER ACRE	150	170	170	130	120	170
LIVE BASAL AREA (SQ. FT/A)	112.3	123.0	109.2	105.1	97.3	131.5
LIVE TOTAL VOLUME (CU. FT/A)	2851	3036	2394	2729	2407	3407
CROWN COMPETITION FACTOR	122	140	124	114	106	142
RELATIVE DENSITY INDEX	32.8	36.2	33.1	30.1	27.9	38.1
MEAN DIAMETER (IN)	11.7	11.5	10.8	12.2	12.2	11.9
SITE HEIGHT (FEET)	75.5	67.7	61.2	74.8	70.5	75.0
AVERAGE CROWN RATIO (%)	39	44	49	39	46	42
AVERAGE CROWN LENGTH (FT)	25.3	28.6	27.9	27.1	29.6	28.6
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	0	0	0

6 YEARS AFTER TREATMENT (1987)

LIVE TREES PER ACRE	150	170	170	130	120	170
LIVE BASAL AREA (SQ. FT/A)	120.6	129.9	115.7	111.0	103.6	140.2
LIVE TOTAL VOLUME (CU. FT/A)	3116	3268	2577	2935	2605	3693
CROWN COMPETITION FACTOR	129	146	129	120	111	149
RELATIVE DENSITY INDEX	34.6	37.8	34.6	31.4	29.2	40.0
MEAN DIAMETER (IN)	12.1	11.8	11.2	12.5	12.6	12.3
SITE HEIGHT (FEET)	77.3	68.9	62.4	76.6	72.1	76.6
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	0	0	0

8 YEARS AFTER TREATMENT (1989)

LIVE TREES PER ACRE	150	170	140	130	120	170
LIVE BASAL AREA (SQ. FT/A)	125.7	134.1	107.9	114.3	107.4	146.6
LIVE TOTAL VOLUME (CU. FT/A)	3294	3420	2448	3051	2736	3940
CROWN COMPETITION FACTOR	133	149	119	122	115	154
RELATIVE DENSITY INDEX	35.7	38.7	31.3	32.1	30.0	41.3
MEAN DIAMETER (IN)	12.4	12.0	11.9	12.7	12.8	12.6
SITE HEIGHT (FEET)	78.4	72.1	63.2	77.4	73.3	78.5
AVERAGE CROWN RATIO (%)	51	53	54	48	52	48
AVERAGE CROWN LENGTH (FT)	34.8	35.7	32.6	34.4	35.0	34.0
DEAD TREES PER ACRE	0	0	30	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	11.9	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	245	0	0	0

FLCT SUMMARY REPORT

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INSTALLATION 219 LITTLE SALMON
 REGION: CENTRAL IDAHO OWNERSHIP: BCISE CASCADE
 LEGAL DESCRIPTION: T18N R1E SECTION 13 MERIDIAN: BOISE

FLOT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1981)	400#N	200#N	0#N	400#N	0#N	200#N
SECOND TREATMENT (1987)	NCNE	200#N	N+K	200#N	NCNE	N+K

MENSURATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1981)	STAND AGE = 67					
LIVE TREES PER ACRE	240	170	290	270	220	270
LIVE BASAL AREA (SQ. FT/A)	143.0	109.6	142.7	137.1	96.8	140.0
LIVE TOTAL VOLUME (CU. FT/A)	3699	2648	3456	3015	1987	2717
CROWN COMPETITION FACTOR	150	118	168	138	112	142
RELATIVE DENSITY INDEX	44.2	33.3	46.3	44.1	32.3	44.8
MEAN DIAMETER (IN)	10.4	10.9	9.5	9.6	9.0	9.8
SITE HEIGHT (FEET)	73.3	68.4	71.3	60.6	55.3	57.1
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	77.1	82.8	94.4	43.6	83.3	60.2
PCNDEROSA PINE	22.9	17.2	5.6	56.4	16.7	39.8

2 YEARS AFTER TREATMENT (1983)

LIVE TREES PER ACRE	240	170	290	270	220	270
LIVE BASAL AREA (SQ. FT/A)	155.4	121.6	151.5	150.1	102.7	149.4
CROWN COMPETITION FACTOR	161	127	177	150	119	149
RELATIVE DENSITY INDEX	47.1	35.9	48.4	47.2	33.8	47.1
MEAN DIAMETER (IN)	10.9	11.4	9.8	10.1	9.3	10.1
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1985)

LIVE TREES PER ACRE	240	170	290	270	220	270
LIVE BASAL AREA (SQ. FT/A)	165.8	130.2	160.0	161.6	109.0	159.4
LIVE TOTAL VOLUME (CU. FT/A)	4501	3360	4064	3766	2391	3354
CROWN COMPETITION FACTOR	169	135	186	159	125	156
RELATIVE DENSITY INDEX	49.4	37.8	50.4	49.9	35.3	49.4
MEAN DIAMETER (IN)	11.3	11.8	10.1	10.5	9.5	10.4
SITE HEIGHT (FEET)	77.4	72.7	75.2	63.7	59.7	61.9
AVERAGE CROWN RATIO (%)	44	47	43	49	46	55
AVERAGE CROWN LENGTH (FT)	29.8	31.9	27.0	27.5	24.8	27.0
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	0	0	0

6 YEARS AFTER TREATMENT (1987)

LIVE TREES PER ACRE	240	170	290	270	220	260
LIVE BASAL AREA (SQ. FT/A)	174.2	137.8	167.2	172.7	114.3	164.9
LIVE TOTAL VOLUME (CU. FT/A)	4840	3643	4334	4131	2571	3573
CROWN COMPETITION FACTOR	176	140	192	168	130	159
RELATIVE DENSITY INDEX	51.3	39.5	52.1	52.5	36.6	50.2
MEAN DIAMETER (IN)	11.5	12.2	10.3	10.8	9.8	10.8
SITE HEIGHT (FEET)	79.1	74.5	76.9	65.5	61.4	63.7
DEAD TREES PER ACRE	0	0	0	0	0	10
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	3.4
DEAD TOTAL VOLUME (CU. FT/A)	1	0	0	0	0	62

8 YEARS AFTER TREATMENT (1989)

LIVE TREES PER ACRE	240	170	290	250	220	260
LIVE BASAL AREA (SQ. FT/A)	181.7	144.9	175.0	174.5	119.9	173.9
LIVE TOTAL VOLUME (CU. FT/A)	5135	3908	4609	4316	2740	3860
CROWN COMPETITION FACTOR	182	145	199	169	135	166
RELATIVE DENSITY INDEX	52.9	41.0	54.0	51.9	37.9	52.3
MEAN DIAMETER (IN)	11.8	12.5	10.5	11.3	10.0	11.1
SITE HEIGHT (FEET)	80.3	76.2	78.5	67.1	62.9	65.3
AVERAGE CROWN RATIO (%)	48	54	45	54	56	60
AVERAGE CROWN LENGTH (FT)	33.9	38.0	30.1	32.1	31.8	31.5
DEAD TREES PER ACRE	0	0	0	20	0	10
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	7.0	0.0	3.4
DEAD TOTAL VOLUME (CU. FT/A)	1	0	0	132	0	62

PLCT SUMMARY REPORT

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INSTALLATION 220 GRCUSE CREEK
 REGION: CENTRAL IDAHO
 LEGAL DESCRIPTION: T16N R4E SECTION 36 OWNERSHIP: ICL
 MERIDIAN: BOISE

PLOT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1981)	400#N	0#N	400#N	200#N	0#N	200#N
SECOND TREATMENT (1987)	NCNE	NCNE	200#N	200#N	N+R	NONE

MENSURATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1981)	STAND AGE = 89					
LIVE TREES PER ACRE	340	240	300	190	310	230
LIVE BASAL AREA (SQ. FT/A)	110.6	104.1	85.7	84.9	125.7	117.7
LIVE TOTAL VOLUME (CU. FT/A)	2441	2509	1663	1936	3161	3334
CROWN COMPETITION FACTOR	139	128	109	101	162	142
RELATIVE DENSITY INDEX	39.8	34.9	31.8	28.2	42.8	37.8
MEAN DIAMETER (IN)	7.7	8.9	7.2	9.0	8.6	9.7
SITE HEIGHT (FEET)	59.8	72.7	53.4	65.3	76.6	78.4
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	95.6	57.3	96.5	90.9	63.2	85.9
GRAND FIR	0.0	2.7	0.0	3.2	29.9	14.1
WESTERN LARCH	0.0	0.0	0.0	0.0	6.9	0.0
LODGEPOLE PINE	3.1	0.0	0.0	0.0	0.0	0.0
PONDEROSA PINE	1.3	0.0	3.5	5.9	0.0	0.0

2 YEARS AFTER TREATMENT (1983)

LIVE TREES PER ACRE	340	240	300	190	300	220
LIVE BASAL AREA (SQ. FT/A)	119.2	109.8	91.8	92.6	126.9	120.3
CROWN COMPETITION FACTOR	148	134	115	110	161	143
RELATIVE DENSITY INDEX	42.1	36.3	33.5	30.1	42.8	38.0
MEAN DIAMETER (IN)	8.0	9.2	7.5	9.4	8.8	10.0
DEAD TREES PER ACRE	0	0	0	0	10	10
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	3.1	2.7

4 YEARS AFTER TREATMENT (1985)

LIVE TREES PER ACRE	330	240	300	190	300	220
LIVE BASAL AREA (SQ. FT/A)	125.9	116.6	97.1	99.5	131.5	126.7
LIVE TOTAL VOLUME (CU. FT/A)	2872	2853	1950	2370	3333	3638
CROWN COMPETITION FACTOR	155	141	120	116	165	148
RELATIVE DENSITY INDEX	43.5	38.0	35.0	31.8	43.9	39.5
MEAN DIAMETER (IN)	8.4	9.4	7.7	9.8	9.0	10.3
SITE HEIGHT (FEET)	63.1	74.8	56.5	68.1	77.8	79.6
AVERAGE CROWN RATIO (%)	44	43	44	48	38	39
AVERAGE CROWN LENGTH (FT)	23.7	24.7	19.5	26.8	23.1	26.6
DEAD TREES PER ACRE	10	0	0	0	10	10
DEAD BASAL AREA (SQ. FT/A)	1.5	0.0	0.0	0.0	3.1	2.7
DEAD TOTAL VOLUME (CU. FT/A)	33	0	0	0	76	59

6 YEARS AFTER TREATMENT (1987)

LIVE TREES PER ACRE	330	240	300	190	290	220
LIVE BASAL AREA (SQ. FT/A)	132.2	123.3	101.4	105.5	135.1	132.5
LIVE TOTAL VOLUME (CU. FT/A)	3051	3029	2069	2571	3472	3823
CROWN COMPETITION FACTOR	161	146	124	120	168	153
RELATIVE DENSITY INDEX	45.1	39.6	36.1	33.2	44.4	40.9
MEAN DIAMETER (IN)	8.6	9.7	7.9	10.1	9.2	10.5
SITE HEIGHT (FEET)	64.2	75.6	57.7	70.0	78.4	80.2
DEAD TREES PER ACRE	10	0	0	0	20	10
DEAD BASAL AREA (SQ. FT/A)	1.5	0.0	0.0	0.0	5.7	2.7
DEAD TOTAL VOLUME (CU. FT/A)	33	0	0	0	114	59

8 YEARS AFTER TREATMENT (1989)

LIVE TREES PER ACRE	330	240	290	190	280	220
LIVE BASAL AREA (SQ. FT/A)	138.1	129.2	105.5	113.3	133.6	137.1
LIVE TOTAL VOLUME (CU. FT/A)	3210	3189	2197	2824	3416	3977
CROWN COMPETITION FACTOR	167	151	128	128	165	158
RELATIVE DENSITY INDEX	46.7	41.0	36.9	35.0	43.7	41.9
MEAN DIAMETER (IN)	8.8	9.9	8.2	10.5	9.3	10.7
SITE HEIGHT (FEET)	64.7	76.3	58.6	71.8	74.3	82.6
AVERAGE CROWN RATIO (%)	53	48	47	53	38	44
AVERAGE CROWN LENGTH (FT)	29.5	29.6	22.2	31.1	24.3	32.8
DEAD TREES PER ACRE	10	0	10	0	30	10
DEAD BASAL AREA (SQ. FT/A)	1.5	0.0	0.6	0.0	14.2	2.7
DEAD TOTAL VOLUME (CU. FT/A)	33	0	4	0	368	61

PLOT SUMMARY REPORT

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INSTALLATION 221 LITTLE MUD CREEK #1
 REGION: CENTRAL IDAHO COWNEESHIP: BOISE CASCADE
 LEGAL DESCRIPTION: T20N R1E SECTION 33 MERIDIAN: BOISE

PLOT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1981)	0#N	200#N	400#N	200#N	0#N	400#N
SECOND TREATMENT (1987)	NCNE	NCNE	NCNE	200#N	N+K	200#N

MENSURATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1981)	STAND	AGE =	82			
LIVE TREES PER ACRE	230	170	210	170	160	140
LIVE BASAL AREA (SQ. FT/A)	149.8	94.9	104.7	116.6	149.4	93.1
LIVE TOTAL VOLUME (CU. FT/A)	3969	2259	2232	2597	4245	2214
CROWN COMPETITION FACTOR	156	107	117	125	149	101
RELATIVE DENSITY INDEX	45.3	29.8	33.8	34.8	41.3	28.0
MEAN DIAMETER (IN)	10.9	10.1	9.6	11.2	13.1	11.0
SITE HEIGHT (FEET)	79.7	76.2	63.9	65.7	82.9	64.7
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	65.2	95.7	84.2	95.8	95.3	90.3
GRAND FIR	6.7	2.1	0.0	0.0	0.0	0.0
WESTERN LARCH	12.9	0.0	0.0	0.0	0.0	0.0
LODGEPOLE PINE	5.4	0.0	0.0	0.0	0.0	0.0
PONDEROSA PINE	7.1	2.2	15.8	4.2	4.7	9.6
ENGELMANN SPRUCE	2.8	0.0	0.0	0.0	0.0	0.0

2 YEARS AFTER TREATMENT (1983)

LIVE TREES PER ACRE	220	170	210	170	160	140
LIVE BASAL AREA (SQ. FT/A)	150.8	103.0	111.6	125.4	157.2	98.7
CROWN COMPETITION FACTOR	157	115	124	133	156	106
RELATIVE DENSITY INDEX	45.0	31.7	35.5	36.8	42.9	29.3
MEAN DIAMETER (IN)	11.2	10.5	9.9	11.6	13.4	11.4
DEAD TREES PER ACRE	10	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	4.2	0.0	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1985)

LIVE TREES PER ACRE	220	170	210	170	160	140
LIVE BASAL AREA (SQ. FT/A)	157.2	110.2	119.1	133.7	165.0	103.9
LIVE TOTAL VOLUME (CU. FT/A)	4317	2745	2680	3105	4834	2563
CROWN COMPETITION FACTOR	162	121	132	139	161	110
RELATIVE DENSITY INDEX	46.5	33.4	37.3	38.6	44.5	30.4
MEAN DIAMETER (IN)	11.4	10.9	10.2	12.0	13.8	11.7
SITE HEIGHT (FEET)	81.5	80.1	67.4	68.8	85.7	67.9
AVERAGE CROWN RATIO (%)	45	60	54	52	41	49
AVERAGE CROWN LENGTH (FT)	29.1	33.8	28.7	30.2	31.0	30.0
DEAD TREES PER ACRE	10	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	4.2	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	88	0	0	0	0	0

6 YEARS AFTER TREATMENT (1987)

LIVE TREES PER ACRE	220	170	210	170	160	140
LIVE BASAL AREA (SQ. FT/A)	162.8	118.0	127.5	142.9	171.6	109.7
LIVE TOTAL VOLUME (CU. FT/A)	4557	2997	2950	3379	5122	2752
CROWN COMPETITION FACTOR	167	128	140	147	166	115
RELATIVE DENSITY INDEX	47.7	35.1	39.3	40.5	45.8	31.7
MEAN DIAMETER (IN)	11.6	11.3	10.5	12.4	14.0	12.0
SITE HEIGHT (FEET)	83.3	82.2	69.4	70.1	87.8	69.6
DEAD TREES PER ACRE	10	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	4.2	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	88	0	0	0	0	0

8 YEARS AFTER TREATMENT (1989)

LIVE TREES PER ACRE	220	170	210	170	160	130
LIVE BASAL AREA (SQ. FT/A)	170.6	127.3	136.8	152.2	179.7	105.7
LIVE TOTAL VOLUME (CU. FT/A)	4853	3293	3236	3669	5446	2617
CROWN COMPETITION FACTOR	173	136	148	156	173	113
RELATIVE DENSITY INDEX	49.4	37.2	41.4	42.5	47.4	30.3
MEAN DIAMETER (IN)	11.9	11.7	10.9	12.8	14.3	12.2
SITE HEIGHT (FEET)	84.5	83.9	71.1	71.7	89.3	71.1
AVERAGE CROWN RATIO (%)	53	66	61	59	48	61
AVERAGE CROWN LENGTH (FT)	35.1	40.3	34.8	36.2	38.3	39.0
DEAD TREES PER ACRE	10	0	0	0	0	10
DEAD BASAL AREA (SQ. FT/A)	4.2	0.0	0.0	0.0	0.0	10.0
DEAD TOTAL VOLUME (CU. FT/A)	88	0	0	0	0	318

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INSTALLATION 222 WEST MILL CREEK #1
 REGION: CENTRAL IDAHO CWNERSHIP: IDL
 LEGAL DESCRIPTION: T18N R3W SECTION 36 MERIDIAN: EOISE

PLOT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1981)	400#N	C#N	200#N	400#N	0#N	200#N
SECOND TREATMENT (1987)	200#N	NCBE	N+K	N+K	N+K	NONE

MENSURATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1981)	STAND AGE = 71					
LIVE TREES PER ACRE	580	380	250	280	400	240
LIVE BASAL AREA (SQ. FT/A)	161.5	118.4	119.7	138.8	168.1	125.3
LIVE TOTAL VOLUME (CU. FT/A)	3590	2607	2575	3770	3744	2622
CROWN COMPETITION FACTOR	208	149	146	157	198	137
RELATIVE DENSITY INDEX	60.4	43.0	39.1	45.0	56.7	40.1
MEAN DIAMETER (IN)	7.1	7.6	9.4	9.5	8.8	9.8
SITE HEIGHT (FEET)	59.5	60.8	59.3	77.8	63.0	65.1
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	94.2	90.6	100.0	82.2	85.9	87.1
GRAND FIR	0.0	0.0	0.0	4.6	0.0	0.0
PONDEROSA PINE	5.8	9.4	0.0	13.2	14.1	12.9

2 YEARS AFTER TREATMENT (1983)

LIVE TREES PER ACRE	580	380	250	280	400	240
LIVE BASAL AREA (SQ. FT/A)	172.5	127.8	130.0	150.5	177.1	132.7
CROWN COMPETITION FACTOR	218	159	155	170	206	144
RELATIVE DENSITY INDEX	63.5	45.6	41.6	47.8	59.0	41.8
MEAN DIAMETER (IN)	7.4	7.8	9.8	9.9	9.0	10.1
DEAD TREES PER ACRE	0.0	0.0	0.0	0.0	0.0	0.0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1985)

LIVE TREES PER ACRE	580	380	250	280	400	240
LIVE BASAL AREA (SQ. FT/A)	182.0	137.5	138.5	161.1	187.0	139.1
LIVE TOTAL VOLUME (CU. FT/A)	4178	3215	3160	4544	4354	3023
CROWN COMPETITION FACTOR	229	168	162	180	216	150
RELATIVE DENSITY INDEX	66.1	48.2	43.6	50.3	61.4	43.3
MEAN DIAMETER (IN)	7.6	8.1	10.1	10.3	9.3	10.3
SITE HEIGHT (FEET)	62.4	65.7	64.0	81.2	65.3	67.9
AVERAGE CROWN RATIO (%)	28	43	43	44	41	48
AVERAGE CROWN LENGTH (FT)	15.6	24.0	24.7	27.5	23.5	24.5
DEAD TREES PER ACRE	0.0	0.0	0.0	0.0	0.0	0.0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	0	0	0

6 YEARS AFTER TREATMENT (1987)

LIVE TREES PER ACRE	570	380	250	280	400	240
LIVE BASAL AREA (SQ. FT/A)	186.9	143.5	144.5	170.1	192.5	142.8
LIVE TOTAL VOLUME (CU. FT/A)	4347	3410	3357	4880	4569	3158
CROWN COMPETITION FACTOR	233	174	169	187	221	153
RELATIVE DENSITY INDEX	67.1	49.7	45.0	52.3	62.8	44.2
MEAN DIAMETER (IN)	7.8	8.3	10.3	10.5	9.4	10.4
SITE HEIGHT (FEET)	63.5	67.3	65.4	82.9	66.4	69.1
DEAD TREES PER ACRE	10	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	1.3	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	27	0	0	0	0	0

8 YEARS AFTER TREATMENT (1989)

LIVE TREES PER ACRE	550	380	250	280	400	240
LIVE BASAL AREA (SQ. FT/A)	189.8	148.0	149.1	175.8	199.0	146.6
LIVE TOTAL VOLUME (CU. FT/A)	4456	3568	3506	5122	4756	3279
CROWN COMPETITION FACTOR	235	179	174	191	226	156
RELATIVE DENSITY INDEX	67.3	50.9	46.1	53.7	64.4	45.1
MEAN DIAMETER (IN)	7.9	8.4	10.5	10.7	9.5	10.6
SITE HEIGHT (FEET)	64.2	68.1	66.1	84.4	67.2	69.9
AVERAGE CROWN RATIO (%)	33	44	46	51	42	50
AVERAGE CROWN LENGTH (FT)	18.8	25.4	28.4	34.9	25.5	26.7
DEAD TREES PER ACRE	30	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	3.4	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	75	0	0	0	0	0

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INSTALLATION 223 WEST MILL CREEK #2
 REGION: CENTRAL IDAHO OWNERSHIP: IDL
 LEGAL DESCRIPTION: T18N R3W SECTION 36 MERIDIAN: POISE

PLOT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1981)	0#N	200#N	400#N	200#N	0#N	400#N
SECOND TREATMENT (1987)	NCNE	NCNE	NCNE	N+K	N+K	N+K

MENSURATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1981)	STAND	AGE = 75				
LIVE TREES PER ACRE	260	250	250	250	180	160
LIVE BASAL AREA (SQ. FT/A)	107.5	91.3	115.4	117.7	136.6	98.7
LIVE TOTAL VOLUME (CU. FT/A)	2388	2025	2910	2835	3902	2187
CROWN COMPETITION FACTOR	123	114	125	127	147	109
RELATIVE DENSITY INDEX	36.5	31.9	38.0	38.6	39.8	30.3
MEAN DIAMETER (IN)	8.7	8.2	9.2	9.3	11.8	10.6
SITE HEIGHT (FEET)	64.1	61.2	70.5	66.7	85.6	66.0
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	85.5	94.8	58.3	67.5	94.3	94.4
GRAND FIR	0.0	0.0	4.7	0.0	0.0	0.0
PONDEROSA PINE	14.5	5.2	37.0	32.5	5.8	5.6

2 YEARS AFTER TREATMENT (1983)

LIVE TREES PER ACRE	260	250	250	250	180	160
LIVE BASAL AREA (SQ. FT/A)	116.5	102.0	127.8	131.2	142.8	106.7
CROWN COMPETITION FACTOR	130	124	135	139	151	115
RELATIVE DENSITY INDEX	38.7	34.7	41.1	41.9	41.1	32.1
MEAN DIAMETER (IN)	9.1	8.6	9.7	9.8	12.1	11.1
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1985)

LIVE TREES PER ACRE	260	250	250	250	180	160
LIVE BASAL AREA (SQ. FT/A)	125.3	110.8	138.8	144.0	149.5	112.7
LIVE TOTAL VOLUME (CU. FT/A)	2991	2624	3783	3716	4344	2634
CROWN COMPETITION FACTOR	137	134	145	152	157	119
RELATIVE DENSITY INDEX	40.9	36.9	43.7	44.9	42.5	33.4
MEAN DIAMETER (IN)	9.4	9.0	10.1	10.3	12.3	11.4
SITE HEIGHT (FEET)	69.2	66.8	76.5	72.1	87.4	70.3
AVERAGE CROWN RATIO (%)	46	44	47	52	45	65
AVERAGE CROWN LENGTH (FT)	25.4	24.7	29.6	31.0	33.5	36.6
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	0	0	0

6 YEARS AFTER TREATMENT (1987)

LIVE TREES PER ACRE	260	250	250	250	180	150
LIVE BASAL AREA (SQ. FT/A)	133.0	117.5	147.3	153.0	154.2	113.4
LIVE TOTAL VOLUME (CU. FT/A)	3253	2839	4128	4047	4531	2699
CROWN COMPETITION FACTOR	144	140	152	159	160	118
RELATIVE DENSITY INDEX	42.7	38.6	45.7	47.0	43.6	33.1
MEAN DIAMETER (IN)	9.7	9.3	10.4	10.6	12.5	11.8
SITE HEIGHT (FEET)	71.3	68.5	78.3	74.1	88.3	71.9
DEAD TREES PER ACRE	0	0	0	0	0	10
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	3.6
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	0	0	89

8 YEARS AFTER TREATMENT (1989)

LIVE TREES PER ACRE	260	250	240	250	180	150
LIVE BASAL AREA (SQ. FT/A)	139.1	122.3	144.9	161.1	159.6	117.4
LIVE TOTAL VOLUME (CU. FT/A)	3458	2995	4100	4356	4727	2825
CROWN COMPETITION FACTOR	149	145	147	165	164	121
RELATIVE DENSITY INDEX	44.2	39.7	44.7	48.9	44.7	33.9
MEAN DIAMETER (IN)	9.5	9.5	10.5	10.9	12.8	12.0
SITE HEIGHT (FEET)	72.5	69.6	77.8	75.9	89.2	73.0
AVERAGE CROWN RATIO (%)	45	44	45	49	49	66
AVERAGE CROWN LENGTH (FT)	27.1	26.1	29.7	31.2	37.3	39.1
DEAD TREES PER ACRE	0	0	10	0	0	10
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	7.9	0.0	0.0	3.6
DEAD TOTAL VOLUME (CU. FT/A)	0	0	257	0	0	89

PLOT SUMMARY REPORT

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INSTALLATION 224 KAISER BUTTE #1
 REGION: CENTRAL WASHINGTON OWNERSHIP: BCISE CASCADE
 LEGAL DESCRIPTION: T6N R15E SECTION 20 MERIDIAN: WILLAMETTE

PLOT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1981)	0#N	200#N	400#N	0#N	200#N	400#N
SECOND TREATMENT (1987)	NONE	200#N	200#N	N+K	NONE	NONE

MENSURATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1981)	STAND	AGE	=	74
LIVE TREES PER ACRE	90	130	90	100
LIVE BASAL AREA (SQ. FT/A)	124.5	156.7	137.7	156.6
LIVE TOTAL VOLUME (CU. FT/A)	4376	5692	5316	5890
CROWN COMPETITION FACTOR	115	145	119	136
RELATIVE DENSITY INDEX	31.2	40.6	33.6	38.0
MEAN DIAMETER (IN)	15.9	14.9	16.8	16.9
SITE HEIGHT (FEET)	105.0	113.9	118.0	117.6
SPECIES COMPOSITION (% OF BA)				
DOUGLAS-FIR	85.8	86.4	98.8	97.8
GRAND FIR	14.1	13.6	1.2	2.2

2 YEARS AFTER TREATMENT (1983)

LIVE TREES PER ACRE	85	130	90	100	120	85
LIVE BASAL AREA (SQ. FT/A)	129.6	169.3	149.2	164.2	201.3	179.6
CROWN COMPETITION FACTOR	117	155	127	141	173	143
RELATIVE DENSITY INDEX	31.7	43.1	35.7	39.4	48.1	40.5
MEAN DIAMETER (IN)	16.7	15.4	17.4	17.3	17.5	19.7
DEAD TREES PER ACRE	5	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	3.1	0.0	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1985)

LIVE TREES PER ACRE	85	125	90	100	120	85
LIVE BASAL AREA (SQ. FT/A)	138.1	180.2	160.9	173.1	215.1	190.9
LIVE TOTAL VOLUME (CU. FT/A)	4993	6711	6371	6677	8271	7823
CROWN COMPETITION FACTOR	122	161	134	147	182	151
RELATIVE DENSITY INDEX	33.2	44.7	37.8	41.0	50.5	42.4
MEAN DIAMETER (IN)	17.3	16.3	18.1	17.8	18.1	20.3
SITE HEIGHT (FEET)	108.3	117.9	122.6	121.4	118.7	124.6
AVERAGE CROWN RATIO (%)	40	50	45	44	47	50
AVERAGE CROWN LENGTH (FT)	36.7	39.5	43.5	42.0	43.1	46.6
DEAD TREES PER ACRE	5	5	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	3.1	1.7	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	31	51	0	0	1	0

6 YEARS AFTER TREATMENT (1987)

LIVE TREES PER ACRE	85	125	90	100	120	85
LIVE BASAL AREA (SQ. FT/A)	147.2	192.5	171.9	181.6	227.3	202.3
LIVE TOTAL VOLUME (CU. FT/A)	5358	7214	6857	7077	8840	8352
CROWN COMPETITION FACTOR	128	170	142	153	190	158
RELATIVE DENSITY INDEX	34.9	47.0	39.7	42.5	52.8	44.3
MEAN DIAMETER (IN)	17.8	16.8	18.7	18.3	18.7	20.9
SITE HEIGHT (FEET)	109.5	119.0	124.0	122.8	120.3	126.2
DEAD TREES PER ACRE	5	5	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	3.1	1.7	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	81	51	1	0	1	0

8 YEARS AFTER TREATMENT (1989)

LIVE TREES PER ACRE	85	125	90	100	120	85
LIVE BASAL AREA (SQ. FT/A)	154.5	202.7	179.7	190.5	238.0	209.2
LIVE TOTAL VOLUME (CU. FT/A)	5666	7668	7214	7488	9319	8701
CROWN COMPETITION FACTOR	133	177	148	159	196	162
RELATIVE DENSITY INDEX	36.2	48.3	41.1	44.1	54.5	45.4
MEAN DIAMETER (IN)	18.3	17.2	19.1	18.7	19.1	21.2
SITE HEIGHT (FEET)	110.7	120.5	125.3	124.2	121.7	127.3
AVERAGE CROWN RATIO (%)	51	54	53	50	54	54
AVERAGE CROWN LENGTH (FT)	53.7	50.4	58.6	53.1	53.6	49.9
DEAD TREES PER ACRE	5	5	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	3.1	1.7	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	81	51	1	0	1	0

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INSTALLATION 225 BOWMAN CREEK
 REGION: CENTRAL WASHINGTON OWNERSHIP: BOISE CASCADE
 LEGAL DESCRIPTION: T5N R15E SECTION 18 MERIDIAN: WILLAMETTE

PLOT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1981)	400#N	0#N	200#N	400#N	200#N	0#N
SECOND TREATMENT (1987)	N+K	NONE	N+K	NONE	200#N	N+K

MENSURATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1981)	STAND	AGE =	85			
LIVE TREES PER ACRE	150	160	150	160	160	160
LIVE BASAL AREA (SQ. FT/A)	87.7	90.8	98.0	111.3	156.7	114.2
LIVE TOTAL VOLUME (CU. FT/A)	2132	2292	2409	2969	4102	2995
CROWN COMPETITION FACTOR	99	107	110	121	165	126
RELATIVE DENSITY INDEX	27.2	28.4	29.6	33.1	44.1	33.8
MEAN DIAMETER (IN)	10.3	10.2	10.9	11.3	12.6	11.4
SITE HEIGHT (FEET)	70.6	70.2	68.7	81.3	78.0	76.0
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	100.0	100.0	100.0	96.7	100.0	100.0
PCNDEBOSA PINE	0.0	0.0	0.0	3.3	0.0	0.0

2 YEARS AFTER TREATMENT (1983)

LIVE TREES PER ACRE	150	160	150	160	160	160
LIVE BASAL AREA (SQ. FT/A)	102.5	99.6	110.3	124.7	166.8	121.7
CROWN COMPETITION FACTOR	112	115	123	132	173	133
RELATIVE DENSITY INDEX	30.6	30.5	32.4	36.1	46.2	35.4
MEAN DIAMETER (IN)	11.2	10.7	11.6	11.9	13.0	11.8
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1985)

LIVE TREES PER ACRE	150	160	150	160	160	160
LIVE BASAL AREA (SQ. FT/A)	117.7	109.5	123.5	138.0	178.9	130.2
LIVE TOTAL VOLUME (CU. FT/A)	3104	2890	3265	3968	4908	3583
CROWN COMPETITION FACTOR	125	123	133	143	182	140
RELATIVE DENSITY INDEX	34.0	32.7	35.2	38.9	48.7	37.3
MEAN DIAMETER (IN)	12.0	11.2	12.3	12.6	13.5	12.2
SITE HEIGHT (FEET)	78.8	74.7	74.1	87.6	81.7	81.0
AVERAGE CROWN RATIO (%)	49	41	46	50	48	40
AVERAGE CROWN LENGTH (FT)	33.1	27.6	32.2	35.7	34.6	29.0
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	0	0	0

6 YEARS AFTER TREATMENT (1987)

LIVE TREES PER ACRE	150	160	150	160	160	160
LIVE BASAL AREA (SQ. FT/A)	130.1	117.8	133.6	148.1	187.1	137.8
LIVE TOTAL VOLUME (CU. FT/A)	3502	3158	3601	4353	5206	3867
CROWN COMPETITION FACTOR	134	130	141	150	189	146
RELATIVE DENSITY INDEX	36.6	34.5	37.4	41.0	50.4	38.9
MEAN DIAMETER (IN)	12.6	11.6	12.8	13.0	13.8	12.6
SITE HEIGHT (FEET)	81.0	76.4	75.5	90.1	82.7	83.1
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	0	0	0

8 YEARS AFTER TREATMENT (1989)

LIVE TREES PER ACRE	150	160	150	160	160	160
LIVE BASAL AREA (SQ. FT/A)	139.2	124.4	142.1	155.6	195.6	146.5
LIVE TOTAL VOLUME (CU. FT/A)	3833	3403	3931	4651	5549	4232
CROWN COMPETITION FACTOR	141	136	147	156	195	153
RELATIVE DENSITY INDEX	38.5	36.0	39.1	42.6	52.1	40.7
MEAN DIAMETER (IN)	13.0	11.9	13.2	13.3	14.1	13.0
SITE HEIGHT (FEET)	83.5	78.3	77.8	91.5	84.7	86.1
AVERAGE CROWN RATIO (%)	52	44	49	54	52	48
AVERAGE CROWN LENGTH (FT)	36.8	31.2	35.8	40.4	40.6	37.0
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	0	0	0

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INSTALLATION 226 CLEMAN MTN
 REGION: CENTRAL WASHINGTON CWNEESHIP: BCISE CASCADE
 LEGAL DESCRIPTION: T16N R15E SECTION 16 MERIDIAN: WILLABETTE

PLOT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1981)	0#N	200#N	400#N	400#N	200#N	0#N
SECOND TREATMENT (1987)	NCNE	N+K	NONE	N+K	NONE	N+K
MENSURATIONAL CHARACTERISTICS:						
AT TIME OF TREATMENT (1981)	STAND AGE = 79					
LIVE TREES PER ACRE	130	120	130	150	130	130
LIVE BASAL AREA (SQ. FT/A)	101.8	87.8	71.3	81.5	95.1	91.1
LIVE TOTAL VOLUME (CU. FT/A)	2571	2051	1595	1825	2247	1979
CROWN COMPETITION FACTOR	111	101	85	93	103	103
RELATIVE DENSITY INDEX	29.4	25.8	22.5	25.8	27.9	27.1
MEAN DIAMETER (IN)	12.0	11.6	10.0	10.0	11.6	11.3
SITE HEIGHT (FEET)	73.3	65.5	61.1	67.7	69.4	61.7
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	100.0	100.0	100.0	96.9	100.0	97.6
PCNDE ROSA FINE	0.0	0.0	0.0	3.1	0.0	2.4
2 YEARS AFTER TREATMENT (1983)						
LIVE TREES PER ACRE	130	120	130	150	130	130
LIVE BASAL AREA (SQ. FT/A)	108.1	97.6	80.9	91.4	103.7	97.7
CROWN COMPETITION FACTOR	117	108	93	104	110	108
RELATIVE DENSITY INDEX	30.8	27.9	24.8	28.1	29.8	28.5
MEAN DIAMETER (IN)	12.3	12.2	10.7	10.6	12.1	11.7
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
4 YEARS AFTER TREATMENT (1985)						
LIVE TREES PER ACRE	130	120	130	150	130	130
LIVE BASAL AREA (SQ. FT/A)	114.3	106.4	89.9	100.5	111.3	104.3
LIVE TOTAL VOLUME (CU. FT/A)	3034	2628	2171	2420	2802	2406
CROWN COMPETITION FACTOR	122	115	100	111	116	112
RELATIVE DENSITY INDEX	32.1	29.8	26.8	30.2	31.4	29.9
MEAN DIAMETER (IN)	12.7	12.8	11.3	11.1	12.5	12.1
SITE HEIGHT (FEET)	77.9	69.8	66.9	74.3	74.8	66.2
AVERAGE CROWN RATIO (%)	50	54	59	72	65	70
AVERAGE CROWN LENGTH (FT)	34.9	36.1	36.5	42.6	41.3	41.6
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	0	0	0
6 YEARS AFTER TREATMENT (1987)						
LIVE TREES PER ACRE	130	120	130	150	130	130
LIVE BASAL AREA (SQ. FT/A)	119.1	113.0	96.3	108.5	116.7	110.1
LIVE TOTAL VOLUME (CU. FT/A)	3225	2850	2371	2679	3002	2599
CROWN COMPETITION FACTOR	125	119	106	116	120	117
RELATIVE DENSITY INDEX	33.1	31.2	28.2	32.0	32.6	31.2
MEAN DIAMETER (IN)	13.0	13.1	11.6	11.5	12.8	12.5
SITE HEIGHT (FEET)	79.7	71.4	68.5	76.5	76.5	67.9
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	0	0	0
8 YEARS AFTER TREATMENT (1989)						
LIVE TREES PER ACRE	130	120	130	150	130	130
LIVE BASAL AREA (SQ. FT/A)	124.1	118.7	101.7	115.2	122.1	116.4
LIVE TOTAL VOLUME (CU. FT/A)	3413	3040	2537	2899	3185	2805
CROWN COMPETITION FACTOR	129	123	111	122	125	121
RELATIVE DENSITY INDEX	34.1	32.3	29.4	33.4	33.7	32.5
MEAN DIAMETER (IN)	13.2	13.5	12.0	11.9	13.1	12.8
SITE HEIGHT (FEET)	81.2	73.1	69.7	79.4	77.9	68.5
AVERAGE CROWN RATIO (%)	55	57	60	70	62	70
AVERAGE CROWN LENGTH (FT)	40.5	39.8	39.1	43.6	41.7	44.3
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	0	0	0

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INSTALLATION 227 JOHNSON CANYON
 REGION: CENTRAL WASHINGTON CWNEESHIP: BCISE CASCADE
 LEGAL DESCRIPTION: T16N R15E SECTION 20 MERIDIAN: WILLAMETTE

FLOT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1981)	200#K	40C#N	0#N	200#N	0#N	400#N
SECOND TREATMENT (1987)	NONE	200#N	N+K	N+K	NONE	N+K

MENSURATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1981)	STAND	AGE	=	80		
LIVE TREES PER ACRE	120	110	120	160	110	120
LIVE BASAL AREA (SQ. FT/A)	103.2	112.0	88.2	134.8	72.8	98.6
LIVE TOTAL VOLUME (CU. FT/A)	2785	3084	2066	3761	1818	2508
CROWN COMPETITION FACTOR	112	115	98	143	85	109
RELATIVE DENSITY INDEX	29.1	30.3	25.9	38.2	21.9	28.1
MEAN DIAMETER (IN)	12.6	13.7	11.6	12.4	11.0	12.3
SITE HEIGHT (FEET)	77.6	82.1	64.7	81.2	68.4	67.9
SPECIES COMPOSITION (% CP BA)						
DOUGLAS-FIR	100.0	100.0	93.4	94.9	100.0	100.0
PCNDE ROSA PINE	0.0	0.0	6.6	5.1	0.0	0.0

2 YEARS AFTER TREATMENT (1983)

LIVE TREES PER ACRE	120	110	120	160	110	120
LIVE BASAL AREA (SQ. FT/A)	112.1	121.5	92.7	145.2	76.8	105.0
CROWN COMPETITION FACTOR	118	121	101	151	88	114
RELATIVE DENSITY INDEX	31.0	32.2	26.9	40.4	22.8	29.5
MEAN DIAMETER (IN)	13.1	14.2	11.9	12.9	11.3	12.7
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1985)

LIVE TREES PER ACRE	120	110	120	160	110	120
LIVE BASAL AREA (SQ. FT/A)	120.3	130.4	97.9	154.7	82.2	111.8
LIVE TOTAL VOLUME (CU. FT/A)	3463	3823	2448	4612	2162	3028
CROWN COMPETITION FACTOR	124	127	105	158	93	118
RELATIVE DENSITY INDEX	32.7	34.0	28.0	42.4	24.0	30.9
MEAN DIAMETER (IN)	13.6	14.7	12.2	13.3	11.7	13.1
SITE HEIGHT (FEET)	82.0	87.9	69.5	86.6	72.1	73.3
AVERAGE CROWN RATIO (%)	57	61	55	54	45	52
AVERAGE CROWN LENGTH (FT)	43.9	48.3	36.0	43.0	31.0	38.0
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	0	0	0

6 YEARS AFTER TREATMENT (1987)

LIVE TREES PER ACRE	120	110	120	160	110	120
LIVE BASAL AREA (SQ. FT/A)	125.9	137.1	102.1	162.4	86.3	116.7
LIVE TOTAL VOLUME (CU. FT/A)	3685	4100	2606	4947	2312	3218
CROWN COMPETITION FACTOR	128	132	108	163	96	122
RELATIVE DENSITY INDEX	33.8	35.3	28.9	44.0	24.9	31.9
MEAN DIAMETER (IN)	13.9	15.1	12.5	13.6	12.0	13.4
SITE HEIGHT (FEET)	83.6	90.0	71.1	89.0	73.9	74.6
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	0	0	0

8 YEARS AFTER TREATMENT (1989)

LIVE TREES PER ACRE	120	110	120	160	110	120
LIVE BASAL AREA (SQ. FT/A)	130.4	142.2	107.0	169.2	89.6	121.3
LIVE TOTAL VOLUME (CU. FT/A)	3855	4318	2784	5232	2437	3386
CROWN COMPETITION FACTOR	131	135	112	168	99	125
RELATIVE DENSITY INDEX	34.7	36.2	29.9	45.3	25.6	32.9
MEAN DIAMETER (IN)	14.1	15.4	12.8	13.9	12.2	13.6
SITE HEIGHT (FEET)	84.8	91.4	72.6	90.3	75.0	76.1
AVERAGE CROWN RATIO (%)	58	62	56	54	47	50
AVERAGE CROWN LENGTH (FT)	46.6	51.6	38.5	44.9	33.7	38.2
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	0	0	0

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INSTALLATION 228 LOOKOUT MTN WEST
 REGION: CENTRAL WASHINGTON OWNERSHIP: WASHINGTON DNR
 LEGAL DESCRIPTION: T20N R16E SECTION 36 MERIDIAN: WILLAMETTE

PLOT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1981)	400#N	200#N	0#N	200#N	0#N	400#N
SECOND TREATMENT (1987)	NCNE	N+K	N+K	200#N	NCNE	N+K
MENSURATIONAL CHARACTERISTICS:						
AT TIME OF TREATMENT (1981)	STAND AGE = 64					
LIVE TREES PER ACRE	140	160	210	260	220	280
LIVE BASAL AREA (SQ. FT/A)	124.1	136.2	164.6	128.9	131.2	157.6
LIVE TOTAL VOLUME (CU. FT/A)	3488	4103	4638	3456	3573	4274
CROWN COMPETITION FACTOR	132	142	165	148	148	179
RELATIVE DENSITY INDEX	34.8	38.5	47.5	41.7	40.6	49.4
MEAN DIAMETER (IN)	12.8	12.5	12.0	9.5	10.5	10.2
SITE HEIGHT (FEET)	76.1	88.9	80.3	76.6	71.8	83.0
SPECIES COMPOSITION (% CF BA)						
DOUGLAS-FIR	100.0	91.4	69.4	89.6	83.9	100.0
PCNDROSA PINE	0.0	8.6	30.6	10.4	16.1	0.0
2 YEARS AFTER TREATMENT (1983)						
LIVE TREES PER ACRE	140	160	210	250	220	280
LIVE BASAL AREA (SQ. FT/A)	131.4	143.9	172.2	132.9	137.7	168.4
CROWN COMPETITION FACTOR	138	147	171	152	153	189
RELATIVE DENSITY INDEX	36.3	40.1	49.2	42.3	42.1	52.0
MEAN DIAMETER (IN)	13.1	12.8	12.3	9.9	10.7	10.5
DEAD TREES PER ACRE	0	0	0	10	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	2.8	0.0	0.0
4 YEARS AFTER TREATMENT (1985)						
LIVE TREES PER ACRE	140	150	210	250	220	280
LIVE BASAL AREA (SQ. FT/A)	140.1	147.2	181.5	142.9	146.1	181.8
LIVE TOTAL VOLUME (CU. FT/A)	4158	4717	5462	4073	4255	5265
CROWN COMPETITION FACTOR	144	149	177	164	160	200
RELATIVE DENSITY INDEX	38.1	40.2	51.2	44.7	44.0	55.0
MEAN DIAMETER (IN)	13.5	13.4	12.6	10.2	11.0	10.9
SITE HEIGHT (FEET)	84.9	94.2	85.1	81.2	76.8	89.3
AVERAGE CROWN RATIO (%)	54	43	44	37	39	43
AVERAGE CROWN LENGTH (FT)	43.1	36.2	34.3	26.9	29.5	31.2
DEAD TREES PER ACRE	0	10	0	10	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	3.9	0.0	2.8	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	75	0	64	0	0
6 YEARS AFTER TREATMENT (1987)						
LIVE TREES PER ACRE	140	150	200	250	200	280
LIVE BASAL AREA (SQ. FT/A)	145.7	151.1	181.0	148.9	138.8	190.5
LIVE TOTAL VOLUME (CU. FT/A)	4399	4905	5520	4312	4159	5624
CROWN COMPETITION FACTOR	148	151	176	169	155	206
RELATIVE DENSITY INDEX	39.2	41.0	50.4	46.0	41.3	57.0
MEAN DIAMETER (IN)	13.8	13.6	12.9	10.4	11.3	11.2
SITE HEIGHT (FEET)	86.6	95.6	84.8	83.0	78.2	91.2
DEAD TREES PER ACRE	0	10	10	10	20	0
DEAD BASAL AREA (SQ. FT/A)	0.0	3.9	5.8	2.8	12.3	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	75	165	64	358	0
8 YEARS AFTER TREATMENT (1989)						
LIVE TREES PER ACRE	140	140	130	230	200	280
LIVE BASAL AREA (SQ. FT/A)	150.9	148.2	138.3	144.4	144.2	197.8
LIVE TOTAL VOLUME (CU. FT/A)	4617	4922	4309	4279	4333	5915
CROWN COMPETITION FACTOR	152	148	140	166	159	213
RELATIVE DENSITY INDEX	40.3	39.7	37.0	44.1	42.5	58.6
MEAN DIAMETER (IN)	14.1	13.9	14.0	10.7	11.5	11.4
SITE HEIGHT (FEET)	88.0	97.5	88.5	84.4	79.3	92.7
AVERAGE CROWN RATIO (%)	56	48	52	42	41	44
AVERAGE CROWN LENGTH (FT)	45.8	43.0	43.7	32.6	32.0	32.8
DEAD TREES PER ACRE	0	20	80	30	20	0
DEAD BASAL AREA (SQ. FT/A)	0.0	12.0	54.7	13.9	12.3	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	310	1637	359	358	0

PLCT SUMMARY REPORT

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INSTALLATION 229 LOOKOUT MTN EAST
 REGION: CENTRAL WASHINGTON OWNERSHIP: BLISE CASCADE
 LEGAL DESCRIPTION: T20N R17E SECTION 31 MERIDIAN: WILLAMETTE

PLOT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1981)	400#N	0#N	200#N	0#N	400#N	200#N
SECOND TREATMENT (1987)	NCNE	NCNE	N+K	N+K	200#N	200#N

MENSURATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1981)	STAND	AGE	=	69
LIVE TREES PER ACRE	130	100	110	120
LIVE BASAL AREA (SQ.FT/A)	131.7	129.4	158.9	129.8
LIVE TOTAL VOLUME (CU.FT/A)	3773	4209	5585	3958
CROWN COMPETITION FACTOR	133	123	147	130
RELATIVE DENSITY INDEX	35.7	33.0	39.4	34.6
MEAN DIAMETER (IN)	13.6	15.4	16.3	14.1
SITE HEIGHT (FEET)	79.2	92.9	101.1	90.3
SPECIES COMPOSITION (% OF BA)				
DOUGLAS-FIR	96.3	100.0	100.0	100.0
PONDEROSA PINE	3.7	0.0	0.0	0.0

2 YEARS AFTER TREATMENT (1983)

LIVE TREES PER ACRE	130	100	110	120	120	100
LIVE BASAL AREA (SQ.FT/A)	140.8	138.2	169.2	137.2	133.0	116.9
CROWN COMPETITION FACTOR	139	129	154	135	133	115
RELATIVE DENSITY INDEX	37.5	34.6	41.3	36.0	35.2	30.6
MEAN DIAMETER (IN)	14.1	15.9	16.8	14.5	14.3	14.6
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ.FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1985)

LIVE TREES PER ACRE	130	100	110	120	120	100
LIVE BASAL AREA (SQ.FT/A)	152.0	146.9	180.3	146.0	145.5	125.8
LIVE TOTAL VOLUME (CU.FT/A)	4542	4980	6585	4622	4874	4108
CROWN COMPETITION FACTOR	147	139	161	141	142	121
RELATIVE DENSITY INDEX	39.7	36.3	43.3	37.8	37.7	32.3
MEAN DIAMETER (IN)	14.6	16.4	17.3	14.9	14.5	15.2
SITE HEIGHT (FEET)	34.3	98.0	106.4	94.4	96.4	90.2
AVERAGE CROWN RATIO (%)	47	50	40	51	50	54
AVERAGE CROWN LENGTH (FT)	38.3	46.5	40.5	43.5	46.1	47.6
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ.FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU.FT/A)	0	0	0	0	0	0

6 YEARS AFTER TREATMENT (1987)

LIVE TREES PER ACRE	130	100	110	120	120	100
LIVE BASAL AREA (SQ.FT/A)	158.4	153.4	167.2	152.3	153.9	130.1
LIVE TOTAL VOLUME (CU.FT/A)	4748	5282	6945	4923	5250	4328
CROWN COMPETITION FACTOR	151	139	165	146	147	124
RELATIVE DENSITY INDEX	41.0	37.5	44.5	37.0	37.3	33.1
MEAN DIAMETER (IN)	14.9	16.8	17.7	15.3	15.3	15.4
SITE HEIGHT (FEET)	87.3	99.7	87.4	96.5	96.2	98.2
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ.FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU.FT/A)	0	0	0	0	0	0

8 YEARS AFTER TREATMENT (1989)

LIVE TREES PER ACRE	130	100	110	120	120	100
LIVE BASAL AREA (SQ.FT/A)	167.2	160.0	193.8	159.5	161.4	136.3
LIVE TOTAL VOLUME (CU.FT/A)	5128	5596	7259	5236	5554	4593
CROWN COMPETITION FACTOR	157	144	170	151	152	128
RELATIVE DENSITY INDEX	42.7	38.7	45.7	40.4	40.7	34.3
MEAN DIAMETER (IN)	15.4	17.1	18.0	15.6	15.7	15.6
SITE HEIGHT (FEET)	88.4	101.5	110.1	98.5	100.1	99.7
AVERAGE CROWN RATIO (%)	47	50	45	51	49	53
AVERAGE CROWN LENGTH (FT)	39.5	48.2	48.0	45.5	47.3	48.5
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ.FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU.FT/A)	0	0	0	0	0	0

PLCT SUMMARY REPORT

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INSTALLATION 230 M.F. TEANAWAY RIVER
 REGION: CENTRAL WASHINGTON OWNERSHIP: BOISE CASCADE
 LEGAL DESCRIPTION: T21N R15E SECTION 20 MERIDIAN: WILLAMETTE

PLCT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1981)	400#N	200#N	0#N	0#N	200#N	400#N
SECOND TREATMENT (1987)	200#N	200#N	NCNE	N+K	NCNE	N+K

MENSURATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1981)	STAND AGE = 81					
LIVE TREES PER ACRE	140	160	150	115	115	90
LIVE BASAL AREA (SQ.FT/A)	125.4	116.7	118.9	141.1	128.7	144.3
LIVE TOTAL VOLUME (CU.FT/A)	3842	3441	3515	4932	4384	3653
CROWN COMPETITION FACTOR	126	124	123	121	114	109
RELATIVE DENSITY INDEX	35.0	34.3	34.2	36.4	34.0	29.3
MEAN DIAMETER (IN)	12.8	11.6	12.0	15.0	14.3	15.3
SITE HEIGHT (FEET)	91.5	85.7	88.7	103.2	97.8	97.0
SPECIES COMPOSITION (% LF BA)						
DOUGLAS-FIR	60.1	89.7	93.2	83.0	76.7	93.2
GRAND FIR	5.5	0.0	0.0	0.0	0.0	6.8
LODGEPOLE PINE	0.0	5.8	0.0	0.0	0.0	0.0
POUNDEROSA PINE	14.4	4.5	6.8	17.0	22.4	0.0

2 YEARS AFTER TREATMENT (1983)

LIVE TREES PER ACRE	140	160	150	115	115	90
LIVE BASAL AREA (SQ.FT/A)	136.3	125.3	124.5	145.0	135.8	122.6
CROWN COMPETITION FACTOR	134	132	127	124	119	115
RELATIVE DENSITY INDEX	37.3	36.2	35.4	37.2	35.4	30.8
MEAN DIAMETER (IN)	13.4	12.0	12.3	15.2	14.7	15.8
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ.FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1985)

LIVE TREES PER ACRE	140	160	150	115	115	90
LIVE BASAL AREA (SQ.FT/A)	152.6	137.2	132.9	151.3	145.8	134.3
LIVE TOTAL VOLUME (CU.FT/A)	4590	4324	4107	5457	5208	4481
CROWN COMPETITION FACTOR	146	140	133	128	125	122
RELATIVE DENSITY INDEX	40.6	38.7	37.2	38.4	37.3	33.0
MEAN DIAMETER (IN)	14.1	12.5	12.7	15.5	15.3	16.5
SITE HEIGHT (FEET)	97.7	92.5	93.0	106.6	102.7	99.1
AVERAGE CROWN RATIO (%)	53	50	49	42	48	50
AVERAGE CROWN LENGTH (FT)	42.5	39.8	39.5	38.3	41.1	42.6
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ.FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU.FT/A)	0	0	0	0	0	0

6 YEARS AFTER TREATMENT (1987)

LIVE TREES PER ACRE	140	160	150	110	110	90
LIVE BASAL AREA (SQ.FT/A)	166.3	147.6	140.8	156.1	153.3	144.3
LIVE TOTAL VOLUME (CU.FT/A)	5598	4779	4453	5742	5614	4907
CROWN COMPETITION FACTOR	156	148	139	132	130	129
RELATIVE DENSITY INDEX	43.3	40.9	38.9	38.9	38.3	34.8
MEAN DIAMETER (IN)	14.8	13.0	13.1	16.1	16.0	17.1
SITE HEIGHT (FEET)	100.6	95.2	95.1	108.5	105.1	101.3
DEAD TREES PER ACRE	0	0	0	5	5	0
DEAD BASAL AREA (SQ.FT/A)	0.0	0.0	0.0	0.9	0.8	0.0
DEAD TOTAL VOLUME (CU.FT/A)	0	0	0	20	14	0

8 YEARS AFTER TREATMENT (1989)

LIVE TREES PER ACRE	140	160	150	110	110	90
LIVE BASAL AREA (SQ.FT/A)	179.7	159.8	149.8	165.4	162.6	154.0
LIVE TOTAL VOLUME (CU.FT/A)	6185	5314	4857	6190	6061	5338
CROWN COMPETITION FACTOR	166	156	147	138	136	136
RELATIVE DENSITY INDEX	45.5	43.4	40.7	40.6	40.1	36.6
MEAN DIAMETER (IN)	15.3	13.5	13.5	16.6	16.5	17.7
SITE HEIGHT (FEET)	102.8	97.9	97.6	110.6	107.3	103.7
AVERAGE CROWN RATIO (%)	56	54	51	43	52	55
AVERAGE CROWN LENGTH (FT)	48.6	45.2	43.4	44.8	46.5	49.5
DEAD TREES PER ACRE	0	0	0	5	5	0
DEAD BASAL AREA (SQ.FT/A)	0.0	0.0	0.0	0.9	0.8	0.0
DEAD TOTAL VOLUME (CU.FT/A)	0	0	0	20	14	0

PLCT SUMMARY REPORT

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INSTALLATION 231 ELMO

REGION: MONTANA

OWNERSHIP: PLATHEAD (BIA)

LEGAL DESCRIPTION: T24N R21W SECTION 30

MERIDIAN: PRINCIPAL

PLOT NUMBER

INITIAL TREATMENT (1981)

SECOND TREATMENT (1987)

1	2	3	4	5	6
0#N	200#N	400#N	200#N	0#N	400#N
NONE	NONE	NCNE	NONE	NONE	NONE

MENSURATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1981)

STAND AGE = 61

LIVE TREES PER ACRE	190	180	200	130	160	150
LIVE BASAL AREA (SQ. FT/A)	117.8	91.6	116.6	71.8	90.3	94.1
LIVE TOTAL VOLUME (CU. FT/A)	2818	1970	2765	1649	2001	2280
CROWN COMPETITION FACTOR	130	108	132	83	102	107
RELATIVE DENSITY INDEX	36.1	29.5	36.3	22.6	28.3	28.7
MEAN DIAMETER (IN)	10.7	9.7	10.3	10.1	10.2	10.7
SITE HEIGHT (FEET)	68.5	61.4	66.8	63.8	62.8	69.5
SPECIES COMPOSITION (% CF BA)						
DOUGLAS-FIR	89.5	100.0	94.0	94.8	92.3	99.3
WESTERN LARCH	0.0	0.0	0.0	0.0	0.0	0.7
PONDEROSA PINE	10.5	0.0	6.0	5.1	7.7	0.0

2 YEARS AFTER TREATMENT (1983)

LIVE TREES PER ACRE	190	180	200	130	160	150
LIVE BASAL AREA (SQ. FT/A)	125.9	100.8	126.4	78.7	97.0	102.9
CROWN COMPETITION FACTOR	138	116	140	88	110	113
RELATIVE DENSITY INDEX	37.9	31.7	38.5	24.2	29.9	30.7
MEAN DIAMETER (IN)	11.0	10.1	10.8	10.5	10.5	11.2
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1985)

LIVE TREES PER ACRE	190	180	200	130	160	150
LIVE BASAL AREA (SQ. FT/A)	130.6	105.4	131.0	82.9	101.4	108.2
LIVE TOTAL VOLUME (CU. FT/A)	3247	2337	3232	1979	2336	2734
CROWN COMPETITION FACTOR	141	120	144	92	114	118
RELATIVE DENSITY INDEX	39.0	32.7	39.6	25.2	30.9	31.9
MEAN DIAMETER (IN)	11.2	10.4	11.0	10.8	10.6	11.5
SITE HEIGHT (FEET)	71.0	63.4	69.8	66.3	65.8	73.1
AVERAGE CROWN RATIO (%)	44	45	43	48	49	55
AVERAGE CROWN LENGTH (FT)	28.4	25.2	27.4	29.1	29.0	35.0
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	0	0	0

6 YEARS AFTER TREATMENT (1987)

LIVE TREES PER ACRE	190	180	200	130	160	150
LIVE BASAL AREA (SQ. FT/A)	137.6	111.3	137.0	87.5	105.9	114.2
LIVE TOTAL VOLUME (CU. FT/A)	3481	2510	3442	2130	2452	2947
CROWN COMPETITION FACTOR	148	125	150	95	118	123
RELATIVE DENSITY INDEX	40.5	34.1	40.9	26.3	31.9	33.2
MEAN DIAMETER (IN)	11.5	10.6	11.2	11.1	11.0	11.8
SITE HEIGHT (FEET)	72.4	64.7	71.3	67.8	67.4	75.0
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	0	0	0

8 YEARS AFTER TREATMENT (1989)

LIVE TREES PER ACRE	180	180	190	130	160	140
LIVE BASAL AREA (SQ. FT/A)	134.0	115.9	131.9	91.5	109.3	117.9
LIVE TOTAL VOLUME (CU. FT/A)	3450	2656	3362	2262	2628	3104
CROWN COMPETITION FACTOR	142	130	143	98	121	125
RELATIVE DENSITY INDEX	39.2	35.1	39.3	27.1	32.7	33.4
MEAN DIAMETER (IN)	11.7	10.9	11.3	11.4	11.2	12.4
SITE HEIGHT (FEET)	73.9	66.9	72.5	69.1	69.0	76.4
AVERAGE CROWN RATIO (%)	47	48	44	50	51	53
AVERAGE CROWN LENGTH (FT)	31.5	28.5	29.1	32.3	31.3	36.8
DEAD TREES PER ACRE	10	0	10	0	0	10
DEAD BASAL AREA (SQ. FT/A)	8.2	0.0	9.2	0.0	0.0	0.8
DEAD TOTAL VOLUME (CU. FT/A)	197	0	238	0	0	11

PLOT SUMMARY REPORT

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INSTALLATION 232 SUNNY SLOPE

REGION: MONTANA

COWPERSHIP: FLATHEAD (BIA)

LEGAL DESCRIPTION: T23N R21W SECTION 12

MERIDIAN: PRINCIPAL

PLOT NUMBER

INITIAL TREATMENT (1981)

SECOND TREATMENT (1987)

1	2	3	4	5	6
0#N	400#N	200#N	400#N	200#N	0#N
N+K	200#N	200#N	NONE	NONE	NONE

MENSURATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1981)

STAND AGE = 54

LIVE TREES PER ACRE	180	180	230	180	200	210
LIVE BASAL AREA (SQ. FT/A)	113.5	148.6	152.0	136.1	135.1	140.9
LIVE TOTAL VOLUME (CU. FT/A)	2779	4257	4094	3649	3541	3746
CROWN COMPETITION FACTOR	123	156	163	137	151	153
RELATIVE DENSITY INDEX	34.6	42.4	45.8	39.7	40.5	42.3
MEAN DIAMETER (IN)	10.6	12.3	11.0	11.8	11.1	11.1
SITE HEIGHT (FEET)	68.4	81.5	74.1	79.9	73.0	76.1
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	89.5	86.3	83.3	71.5	95.6	88.3
WESTERN LARCH	0.0	13.7	0.0	16.6	0.0	11.7
PONDEROSA PINE	10.5	0.0	16.7	11.9	4.1	0.0

2 YEARS AFTER TREATMENT (1983)

LIVE TREES PER ACRE	180	180	230	180	200	210
LIVE BASAL AREA (SQ. FT/A)	122.0	164.2	166.6	148.9	147.8	152.4
CROWN COMPETITION FACTOR	133	168	177	148	163	165
RELATIVE DENSITY INDEX	36.5	45.6	49.1	42.4	43.3	44.9
MEAN DIAMETER (IN)	11.1	12.9	11.5	12.3	11.6	11.5
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1985)

LIVE TREES PER ACRE	180	180	230	170	200	210
LIVE BASAL AREA (SQ. FT/A)	126.6	172.1	174.0	150.0	155.2	158.6
LIVE TOTAL VOLUME (CU. FT/A)	3261	5187	4979	4256	4309	4397
CROWN COMPETITION FACTOR	136	174	183	150	169	169
RELATIVE DENSITY INDEX	37.6	47.3	50.7	42.1	44.9	46.2
MEAN DIAMETER (IN)	11.4	13.2	11.8	12.7	11.9	11.8
SITE HEIGHT (FEET)	71.9	83.6	79.2	84.7	78.1	79.8
AVERAGE CROWN RATIO (%)	46	55	51	47	49	46
AVERAGE CROWN LENGTH (FT)	30.9	44.7	37.7	35.1	36.1	34.1
DEAD TREES PER ACRE	0	0	0	10	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	4.6	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	132	0	0

6 YEARS AFTER TREATMENT (1987)

LIVE TREES PER ACRE	180	180	230	170	200	210
LIVE BASAL AREA (SQ. FT/A)	133.5	182.2	182.7	157.8	163.4	167.5
LIVE TOTAL VOLUME (CU. FT/A)	3520	5614	5359	4598	4646	4751
CROWN COMPETITION FACTOR	142	182	190	157	176	176
RELATIVE DENSITY INDEX	39.1	49.4	52.6	43.7	46.7	48.2
MEAN DIAMETER (IN)	11.7	13.6	12.1	13.0	12.2	12.1
SITE HEIGHT (FEET)	73.7	90.5	81.3	87.1	80.3	81.6
DEAD TREES PER ACRE	0	0	0	10	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	4.6	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	132	0	0

8 YEARS AFTER TREATMENT (1989)

LIVE TREES PER ACRE	180	180	230	170	200	210
LIVE BASAL AREA (SQ. FT/A)	140.5	191.8	192.1	165.0	170.9	174.8
LIVE TOTAL VOLUME (CU. FT/A)	3792	6041	5773	4894	4977	5065
CROWN COMPETITION FACTOR	146	189	197	162	182	183
RELATIVE DENSITY INDEX	40.6	51.3	54.6	45.2	48.3	49.7
MEAN DIAMETER (IN)	12.0	14.0	12.4	13.3	12.5	12.3
SITE HEIGHT (FEET)	75.8	92.7	83.5	88.9	82.3	83.8
AVERAGE CROWN RATIO (%)	44	50	47	48	45	43
AVERAGE CROWN LENGTH (FT)	31.4	43.2	37.3	38.1	35.1	33.4
DEAD TREES PER ACRE	0	0	0	10	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	4.6	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	132	0	0

PLCT SUMMARY REPORT

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INSTALLATION 233 HELLROARING CREEK
 REGION: MONTANA OWNERSHIP: FLATHEAD (BIA)
 LEGAL DESCRIPTION: T23N R19W SECTION 33 MERIDIAN: PRINCIPAL

PLOT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1981)	400#N	200#N	0#N	0#N	200#N	400#N
SECOND TREATMENT (1987)	N+K	N+K	N+K	NONE	NONE	NONE

MEASUREMENTAL CHARACTERISTICS:

AT TIME OF TREATMENT (1981)	STAND AGE = 54					
LIVE TREES PER ACRE	160	180	230	150	160	160
LIVE BASAL AREA (SQ. FT/A)	136.7	125.4	176.5	136.7	149.9	140.6
LIVE TOTAL VOLUME (CU. FT/A)	3724	3197	4931	3829	4429	3584
CROWN COMPETITION FACTOR	148	135	189	145	157	148
RELATIVE DENSITY INDEX	38.6	37.3	51.2	38.0	41.4	39.5
MEAN DIAMETER (IN)	12.5	11.3	11.9	12.9	13.1	12.7
SITE HEIGHT (FEET)	77.1	73.2	80.3	76.4	83.1	70.5
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	100.0	82.6	85.7	100.0	100.0	91.0
WESTERN LARCH	0.0	0.0	14.3	0.0	0.0	0.0
PONDEROSA PINE	0.0	17.4	0.0	0.0	0.0	9.0

2 YEARS AFTER TREATMENT (1983)

LIVE TREES PER ACRE	160	180	230	150	160	160
LIVE BASAL AREA (SQ. FT/A)	147.2	136.3	188.7	143.8	160.3	152.4
CROWN COMPETITION FACTOR	156	146	199	150	164	157
RELATIVE DENSITY INDEX	40.8	39.7	53.9	39.5	43.5	41.9
MEAN DIAMETER (IN)	13.0	11.8	12.3	13.3	13.5	13.2
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1985)

LIVE TREES PER ACRE	160	180	230	150	160	160
LIVE BASAL AREA (SQ. FT/A)	154.2	143.4	196.0	148.8	166.7	159.8
LIVE TOTAL VOLUME (CU. FT/A)	4405	3864	5743	4312	5156	4313
CROWN COMPETITION FACTOR	161	152	205	154	169	162
RELATIVE DENSITY INDEX	42.3	41.3	55.4	40.5	44.8	43.4
MEAN DIAMETER (IN)	13.3	12.1	12.5	13.5	13.8	13.5
SITE HEIGHT (FEET)	81.2	77.1	84.6	79.6	88.0	74.0
AVERAGE CROWN RATIO (%)	46	52	42	50	44	56
AVERAGE CROWN LENGTH (FT)	35.8	36.2	33.5	39.0	36.8	40.3
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	0	0	0

6 YEARS AFTER TREATMENT (1987)

LIVE TREES PER ACRE	160	180	230	150	160	160
LIVE BASAL AREA (SQ. FT/A)	162.5	151.3	205.6	155.4	173.8	168.2
LIVE TOTAL VOLUME (CU. FT/A)	4740	4184	6155	4570	5500	4642
CROWN COMPETITION FACTOR	167	157	212	158	174	168
RELATIVE DENSITY INDEX	44.0	42.9	57.5	41.8	46.3	45.1
MEAN DIAMETER (IN)	13.6	12.4	12.8	13.8	14.1	13.9
SITE HEIGHT (FEET)	83.2	79.0	86.6	81.1	90.3	75.6
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	0	0	0

8 YEARS AFTER TREATMENT (1989)

LIVE TREES PER ACRE	160	180	230	150	160	160
LIVE BASAL AREA (SQ. FT/A)	169.8	158.8	214.4	160.5	179.5	174.5
LIVE TOTAL VOLUME (CU. FT/A)	5045	4511	6588	4809	5793	4898
CROWN COMPETITION FACTOR	172	163	218	162	178	172
RELATIVE DENSITY INDEX	45.5	44.5	59.3	42.9	47.4	46.4
MEAN DIAMETER (IN)	13.9	12.7	13.1	14.0	14.3	14.1
SITE HEIGHT (FEET)	85.1	81.4	89.3	82.8	92.2	77.2
AVERAGE CROWN RATIO (%)	51	53	43	48	45	49
AVERAGE CROWN LENGTH (FT)	41.8	38.9	35.9	38.8	39.1	36.4
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	0	0	0

PLCT SUMMARY REPORT

INSTALLATION 234 RONAN
 REGION: MONTANA OWNERSHIP: FLATHEAD (BIA)
 LEGAL DESCRIPTION: T20N R19W SECTION 5 MERIDIAN: PRINCIPAL

PLOT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1981)	0#N	200#N	400#N	400#N	0#N	200#N
SECOND TREATMENT (1987)	NONE	NONE	NONE	NONE	NONE	NONE

MENSURATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1981)	STAND	AGE	59			
LIVE TREES PER ACRE	210	200	160	160	160	170
LIVE BASAL AREA (SQ. FT/A)	140.0	137.2	99.7	120.4	150.4	141.3
LIVE TOTAL VOLUME (CU. FT/A)	365.5	366.1	252.9	316.5	418.1	375.4
CROWN COMPETITION FACTOR	14.8	14.5	10.7	13.1	15.3	14.4
RELATIVE DENSITY INDEX	42.1	41.0	30.5	35.1	41.5	40.2
MEAN DIAMETER (IN)	11.1	11.2	10.7	11.8	13.1	12.3
SITE HEIGHT (FEET)	73.4	74.3	70.2	71.7	79.4	73.3
SPECIES COMPOSITION (% CP BA)						
DOUGLAS-FIR	67.6	66.8	74.2	83.8	88.0	79.8
GRAND FIR	0.0	5.9	0.0	0.0	0.0	0.0
WESTERN LARCH	0.0	12.5	13.1	4.8	0.0	0.0
PCNDE ROSA PINE	32.4	14.8	12.7	11.5	12.0	20.2

2 YEARS AFTER TREATMENT (1983)

LIVE TREES PER ACRE	210	200	160	160	160	170
LIVE BASAL AREA (SQ. FT/A)	150.3	147.4	107.4	129.8	160.8	152.2
CROWN COMPETITION FACTOR	15.5	15.3	11.3	13.7	16.1	15.1
RELATIVE DENSITY INDEX	44.4	43.2	32.2	37.2	43.6	42.5
MEAN DIAMETER (IN)	11.5	11.6	11.1	12.2	13.6	12.8
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1985)

LIVE TREES PER ACRE	210	200	160	160	160	170
LIVE BASAL AREA (SQ. FT/A)	157.6	152.8	111.7	135.5	167.9	158.6
LIVE TOTAL VOLUME (CU. FT/A)	442.4	436.8	302.7	380.1	499.2	455.6
CROWN COMPETITION FACTOR	16.2	15.7	11.7	14.1	16.6	15.6
RELATIVE DENSITY INDEX	46.0	44.4	33.2	38.4	45.1	43.8
MEAN DIAMETER (IN)	11.7	11.8	11.3	12.5	13.9	13.1
SITE HEIGHT (FEET)	79.9	79.9	74.8	76.9	84.6	79.0
AVERAGE CROWN RATIO (%)	51	53	47	55	57	55
AVERAGE CROWN LENGTH (FT)	34.0	38.8	33.5	41.1	43.8	40.8
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	0	0	0

6 YEARS AFTER TREATMENT (1987)

LIVE TREES PER ACRE	210	200	150	160	160	170
LIVE BASAL AREA (SQ. FT/A)	166.1	160.4	111.2	142.2	175.4	166.9
LIVE TOTAL VOLUME (CU. FT/A)	478.8	469.9	310.3	408.3	533.5	493.5
CROWN COMPETITION FACTOR	16.8	16.3	11.4	14.6	17.2	16.2
RELATIVE DENSITY INDEX	47.9	46.1	32.6	39.8	46.6	45.6
MEAN DIAMETER (IN)	12.0	12.1	11.7	12.8	14.2	13.4
SITE HEIGHT (FEET)	82.2	81.8	76.4	78.8	86.6	81.3
DEAD TREES PER ACRE	0	0	10	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	5.7	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	14.6	0	0	0

8 YEARS AFTER TREATMENT (1989)

LIVE TREES PER ACRE	210	200	-	-	-	-
LIVE BASAL AREA (SQ. FT/A)	171.6	165.0	-	-	-	-
LIVE TOTAL VOLUME (CU. FT/A)	506.0	494.9	-	-	-	-
CROWN COMPETITION FACTOR	17.2	16.6	-	-	-	-
RELATIVE DENSITY INDEX	49.0	47.1	-	-	-	-
MEAN DIAMETER (IN)	12.2	12.3	-	-	-	-
SITE HEIGHT (FEET)	84.0	83.9	-	-	-	-
AVERAGE CROWN RATIO (%)	51	48	-	-	-	-
AVERAGE CROWN LENGTH (FT)	36.1	37.1	-	-	-	-
DEAD TREES PER ACRE	0	0	-	-	-	-
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	-	-	-	-
DEAD TOTAL VOLUME (CU. FT/A)	0	0	-	-	-	-

PLCT SUMMARY REPORT

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INSTALLATION 235 FISH CREEK

REGION: MONTANA

OWNERSHIP: CHAMPION

LEGAL DESCRIPTION: T14N R24W SECTION 5

MERITIAN: PRINCIPAL

PLOT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1981)	0#N	200#N	400#N	0#N	200#N	400#N
SECOND TREATMENT (1987)	NONE	200#N	NONE	N#K	NONE	200#N

MENSURATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1981)	STAND AGE = 74					
LIVE TREES PER ACRE	220	270	280	390	390	410
LIVE BASAL AREA (SQ. FT/A)	86.7	114.1	106.8	112.2	115.7	126.3
LIVE TOTAL VOLUME (CU. FT/A)	2026	2662	2314	2504	2591	2828
CROWN COMPETITION FACTOR	107	123	127	131	140	158
RELATIVE DENSITY INDEX	29.8	38.4	36.9	41.6	42.6	46.1
MEAN DIAMETER (IN)	8.5	8.8	8.4	7.3	7.4	7.5
SITE HEIGHT (FEET)	65.1	67.0	61.9	63.7	59.6	61.7
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	97.7	62.8	86.5	68.6	83.3	87.9
WESTERN LARCH	0.0	0.0	0.0	1.7	0.0	0.0
LODGEPOLE PINE	0.0	0.0	0.0	0.0	0.0	4.9
PCNDE ROSA PINE	2.3	37.2	13.5	29.8	16.7	7.2

2 YEARS AFTER TREATMENT (1983)

LIVE TREES PER ACRE	220	270	280	390	390	410
LIVE BASAL AREA (SQ. FT/A)	90.0	119.8	112.4	116.3	122.1	132.2
CROWN COMPETITION FACTOR	110	129	132	135	146	164
RELATIVE DENSITY INDEX	30.6	39.9	38.4	42.8	44.4	47.7
MEAN DIAMETER (IN)	8.7	9.0	8.6	7.4	7.6	7.7
DEAD TREES PER ACRE	0.0	0.0	0.0	0.0	0.0	0.0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1985)

LIVE TREES PER ACRE	220	260	280	360	370	360
LIVE BASAL AREA (SQ. FT/A)	93.4	121.9	119.1	116.8	125.3	128.8
LIVE TOTAL VOLUME (CU. FT/A)	2236	2998	2703	2714	2951	3012
CROWN COMPETITION FACTOR	113	131	138	134	148	155
RELATIVE DENSITY INDEX	31.5	40.0	40.1	42.1	44.6	45.3
MEAN DIAMETER (IN)	8.8	9.3	8.8	7.7	7.9	8.1
SITE HEIGHT (FEET)	67.4	70.3	65.4	66.4	62.8	64.9
AVERAGE CROWN RATIO (%)	40	43	44	35	33	32
AVERAGE CROWN LENGTH (FT)	24.2	25.8	24.3	19.8	18.6	17.6
DEAD TREES PER ACRE	0.0	10	0	30	20	50
DEAD BASAL AREA (SQ. FT/A)	0.0	3.7	0.0	4.0	3.1	9.8
DEAD TOTAL VOLUME (CU. FT/A)	0	80	0	82	58	203

6 YEARS AFTER TREATMENT (1987)

LIVE TREES PER ACRE	220	260	280	360	360	350
LIVE BASAL AREA (SQ. FT/A)	96.9	127.1	124.8	121.8	129.8	132.8
LIVE TOTAL VOLUME (CU. FT/A)	2350	3194	2875	2895	3130	3177
CROWN COMPETITION FACTOR	116	136	144	138	153	159
RELATIVE DENSITY INDEX	32.3	41.3	41.5	43.4	45.5	46.0
MEAN DIAMETER (IN)	9.0	9.5	9.0	7.9	8.1	8.3
SITE HEIGHT (FEET)	68.5	71.6	66.4	67.7	64.4	66.7
DEAD TREES PER ACRE	0.0	10	0	30	30	60
DEAD BASAL AREA (SQ. FT/A)	0.0	3.7	0.0	4.0	3.9	11.6
DEAD TOTAL VOLUME (CU. FT/A)	0	80	0	82	65	238

8 YEARS AFTER TREATMENT (1989)

LIVE TREES PER ACRE	210	260	250	360	360	340
LIVE BASAL AREA (SQ. FT/A)	100.2	133.1	123.6	128.4	135.6	135.3
LIVE TOTAL VOLUME (CU. FT/A)	2473	3412	2912	3112	3322	3290
CROWN COMPETITION FACTOR	119	141	140	145	158	163
RELATIVE DENSITY INDEX	32.8	42.8	40.1	45.1	47.0	46.3
MEAN DIAMETER (IN)	9.3	9.7	9.5	8.1	8.3	8.5
SITE HEIGHT (FEET)	70.1	73.2	67.9	69.4	65.7	68.0
AVERAGE CROWN RATIO (%)	47	44	51	37	38	38
AVERAGE CROWN LENGTH (FT)	29.5	27.2	30.0	22.0	22.8	22.7
DEAD TREES PER ACRE	10	10	30	30	30	70
DEAD BASAL AREA (SQ. FT/A)	1.1	3.7	7.8	4.0	3.9	16.2
DEAD TOTAL VOLUME (CU. FT/A)	19	80	168	82	69	348

PLCT SUMMARY REPORT

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INSTALLATION 236 DEER CREEK
 REGION: MONTANA COWBEE SHIP: CHAMPION
 LEGAL DESCRIPTION: T13N R18W SECTION 20 MERIDIAN: PRINCIPAL

PLOT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1981)	400#N	200#N	0#N	400#N	0#N	200#N
SECOND TREATMENT (1987)	N+K	N+K	N+K	NONE	NONE	NONE

MENSURATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1981)	STAND AGE = 80					
LIVE TREES PER ACRE	240	270	240	380	310	350
LIVE BASAL AREA (SQ. FT/A)	134.9	172.2	173.2	189.4	146.4	190.3
LIVE TOTAL VOLUME (CU. FT/A)	3367	4555	4555	4797	3704	4795
CROWN COMPETITION FACTOR	153	194	180	218	178	216
RELATIVE DENSITY INDEX	42.3	52.4	51.1	61.3	48.0	60.2
MEAN DIAMETER (IN)	10.1	10.8	11.5	9.6	9.3	10.0
SITE HEIGHT (FEET)	75.4	77.0	76.1	76.8	72.7	75.0
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	96.6	96.9	85.5	97.9	100.0	94.1
PONDEROSA PINE	3.4	3.1	14.5	2.1	0.0	5.9

2 YEARS AFTER TREATMENT (1983)

LIVE TREES PER ACRE	240	270	240	380	310	350
LIVE BASAL AREA (SQ. FT/A)	139.9	177.5	178.3	195.0	151.8	196.2
CROWN COMPETITION FACTOR	158	198	183	223	183	222
RELATIVE DENSITY INDEX	43.5	53.6	52.2	62.6	49.3	61.6
MEAN DIAMETER (IN)	10.3	11.0	11.7	9.7	9.5	10.1
DEAD TREES PER ACRE	0.0	0.0	0.0	0.0	0.0	0.0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1985)

LIVE TREES PER ACRE	240	270	240	380	310	350
LIVE BASAL AREA (SQ. FT/A)	144.1	181.7	182.2	199.0	155.3	200.4
LIVE TOTAL VOLUME (CU. FT/A)	3742	4949	4944	5206	4046	5228
CROWN COMPETITION FACTOR	161	201	186	227	187	226
RELATIVE DENSITY INDEX	44.5	54.5	53.0	63.6	50.2	62.6
MEAN DIAMETER (IN)	10.5	11.1	11.8	9.8	9.6	10.3
SITE HEIGHT (FEET)	78.4	79.0	79.2	80.1	75.7	78.2
AVERAGE CROWN RATIO (%)	34	28	36	26	28	29
AVERAGE CROWN LENGTH (FT)	22.2	20.1	23.8	16.7	18.5	18.8
DEAD TREES PER ACRE	0.0	0.0	0.0	0.0	0.0	0.0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	0	0	0

6 YEARS AFTER TREATMENT (1987)

LIVE TREES PER ACRE	240	270	240	350	310	350
LIVE BASAL AREA (SQ. FT/A)	148.5	185.2	186.3	197.1	159.1	203.9
LIVE TOTAL VOLUME (CU. FT/A)	3929	5118	5132	5255	4195	5400
CROWN COMPETITION FACTOR	164	204	189	222	190	228
RELATIVE DENSITY INDEX	45.5	55.3	53.9	61.8	51.1	63.4
MEAN DIAMETER (IN)	10.6	11.2	11.9	10.2	9.7	10.3
SITE HEIGHT (FEET)	80.0	80.4	80.7	81.2	76.6	79.4
DEAD TREES PER ACRE	0.0	0.0	0.0	30	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	6.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	1	2	0	123	0	1

8 YEARS AFTER TREATMENT (1989)

LIVE TREES PER ACRE	240	240	230	300	300	340
LIVE BASAL AREA (SQ. FT/A)	153.4	179.8	190.1	188.8	161.9	206.0
LIVE TOTAL VOLUME (CU. FT/A)	4117	5063	5335	5105	4323	5537
CROWN COMPETITION FACTOR	169	195	192	208	191	228
RELATIVE DENSITY INDEX	46.6	52.5	54.2	57.6	51.3	63.5
MEAN DIAMETER (IN)	10.8	11.7	12.3	10.7	9.9	10.5
SITE HEIGHT (FEET)	81.2	81.5	82.3	82.0	77.8	80.5
AVERAGE CROWN RATIO (%)	43	34	42	33	34	34
AVERAGE CROWN LENGTH (FT)	29.5	24.9	29.0	23.6	23.3	22.4
DEAD TREES PER ACRE	0.0	30	10	80	10	10
DEAD BASAL AREA (SQ. FT/A)	0.0	9.0	0.9	18.5	1.5	2.3
DEAD TOTAL VOLUME (CU. FT/A)	1	221	17	430	26	46

FLCT SUMMARY REPORT

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INSTALLATION 237 MOLLET PARK
 REGION: MONTANA CWNERSHIE: CHAMPION
 LEGAL DESCRIPTION: T15N R12W SECTION 9 MERIDIAN: PRINCIPAL

PLOT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1981)	400#N	200#N	0#N	0#N	400#N	200#N
SECOND TREATMENT (1987)	200#N	NCNE	NCNE	N+R	N+R	200#N

MENSURATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1981)	STAND AGE = 90					
LIVE TREES PER ACRE	230	180	250	220	240	270
LIVE BASAL AREA (SQ. FT/A)	169.0	142.4	174.1	156.1	123.3	125.8
LIVE TOTAL VOLUME (CU. FT/A)	495.4	400.2	504.9	439.3	305.5	287.6
CROWN COMPETITION FACTOR	171	145	192	166	141	149
RELATIVE DENSITY INDEX	49.6	41.0	51.8	46.2	39.6	41.4
MEAN DIAMETER (IN)	11.6	12.0	11.3	11.4	9.7	9.2
SITE HEIGHT (FEET)	85.3	81.7	85.2	83.6	75.2	67.5
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	86.1	97.9	100.0	100.0	100.0	100.0
PCNDEROSA PINE	13.9	2.0	0.0	0.0	0.0	0.0

2 YEARS AFTER TREATMENT (1983)

LIVE TREES PER ACRE	220	180	250	220	240	270
LIVE BASAL AREA (SQ. FT/A)	170.6	149.1	182.5	163.4	129.0	133.5
LIVE TOTAL VOLUME (CU. FT/A)	524.4	444.2	556.0	480.9	337.6	327.4
CROWN COMPETITION FACTOR	172	150	199	173	146	157
RELATIVE DENSITY INDEX	49.4	42.5	53.7	47.8	40.9	43.3
MEAN DIAMETER (IN)	11.5	12.3	11.6	11.7	9.9	9.5
DEAD TREES PER ACRE	10	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	5.5	0.0	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1985)

LIVE TREES PER ACRE	220	180	250	220	240	270
LIVE BASAL AREA (SQ. FT/A)	174.1	153.1	188.3	168.8	133.7	139.1
LIVE TOTAL VOLUME (CU. FT/A)	524.4	444.2	556.0	480.9	337.6	327.4
CROWN COMPETITION FACTOR	174	153	204	177	150	163
RELATIVE DENSITY INDEX	50.2	43.3	54.9	49.0	42.0	44.6
MEAN DIAMETER (IN)	12.0	12.5	11.8	11.9	10.1	9.7
SITE HEIGHT (FEET)	88.1	85.3	87.0	85.0	77.2	70.5
AVERAGE CROWN RATIO (%)	40	36	27	41	36	43
AVERAGE CROWN LENGTH (FT)	30.2	26.0	21.0	28.5	22.6	23.5
DEAD TREES PER ACRE	10	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	5.5	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	182	0	0	0	0	0

6 YEARS AFTER TREATMENT (1987)

LIVE TREES PER ACRE	220	180	250	220	240	260
LIVE BASAL AREA (SQ. FT/A)	178.9	158.1	195.3	175.9	138.8	138.7
LIVE TOTAL VOLUME (CU. FT/A)	546.5	464.4	583.3	505.8	353.9	332.1
CROWN COMPETITION FACTOR	178	157	209	183	155	160
RELATIVE DENSITY INDEX	51.2	44.4	56.4	50.5	43.3	44.1
MEAN DIAMETER (IN)	12.2	12.7	12.0	12.1	10.3	9.9
SITE HEIGHT (FEET)	89.5	86.5	88.3	86.1	78.2	71.3
DEAD TREES PER ACRE	10	0	0	0	0	10
DEAD BASAL AREA (SQ. FT/A)	5.5	0.0	0.0	0.0	0.0	6.6
DEAD TOTAL VOLUME (CU. FT/A)	182	0	0	0	0	131

8 YEARS AFTER TREATMENT (1989)

LIVE TREES PER ACRE	220	180	250	220	220	260
LIVE BASAL AREA (SQ. FT/A)	183.0	162.8	201.0	181.9	140.1	143.2
LIVE TOTAL VOLUME (CU. FT/A)	564.7	483.4	605.9	528.9	361.0	347.7
CROWN COMPETITION FACTOR	180	160	213	188	153	164
RELATIVE DENSITY INDEX	52.1	45.4	57.7	51.8	42.6	45.2
MEAN DIAMETER (IN)	12.3	12.9	12.1	12.3	10.8	10.0
SITE HEIGHT (FEET)	90.3	87.8	89.3	87.2	79.1	72.4
AVERAGE CROWN RATIO (%)	43	44	37	45	47	48
AVERAGE CROWN LENGTH (FT)	32.9	32.7	29.2	34.0	30.4	29.2
DEAD TREES PER ACRE	10	0	0	0	20	10
DEAD BASAL AREA (SQ. FT/A)	5.5	0.0	0.0	0.0	3.3	6.6
DEAD TOTAL VOLUME (CU. FT/A)	182	0	0	0	79	131

PLCT SUMMARY REPORT

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INSTALLATION 238 BULLALC BILL CREEK
 REGION: MONTANA OWNERSHIP: CHAMPION
 LEGAL DESCRIPTION: T22N R26W SECTION 34 MERIDIAN: PRINCIPAL

PLCT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1981)	0#N	200#N	400#N	400#N	200#N	0#N
SECOND TREATMENT (1987)	NCNE	N+K	N+K	NONE	200#N	N+K

MENSURATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1981)	STAND AGE = 32					
LIVE TREES PER ACRE	260	230	160	210	180	240
LIVE BASAL AREA (SQ. FT/A)	56.0	55.4	44.5	39.3	31.6	60.8
LIVE TOTAL VOLUME (CU. FT/A)	940	860	760	579	403	885
CROWN COMPETITION FACTOR	70	70	57	52	45	78
RELATIVE DENSITY INDEX	22.3	21.5	16.6	16.2	13.3	23.3
MEAN DIAMETER (IN)	6.3	6.6	7.1	5.9	5.7	6.8
SITE HEIGHT (FEET)	43.7	46.0	44.9	38.9	32.5	40.4
SPECIES COMPOSITION (% CF BA)						
DOUGLAS-FIR	68.4	78.5	94.8	82.2	93.5	86.0
WESTERN LARCH	8.5	19.3	5.2	3.4	3.8	11.6
LODGEPOLE PINE	23.0	2.2	0.0	11.0	2.7	2.4
PONDEROSA PINE	0.0	0.0	0.0	3.4	0.0	0.0

2 YEARS AFTER TREATMENT (1983)

LIVE TREES PER ACRE	260	230	160	210	180	240
LIVE BASAL AREA (SQ. FT/A)	63.2	66.7	53.1	47.6	39.0	69.4
CROWN COMPETITION FACTOR	78	82	67	61	53	87
RELATIVE DENSITY INDEX	24.5	24.7	19.0	18.8	15.5	25.7
MEAN DIAMETER (IN)	6.7	7.3	7.8	6.4	6.3	7.3
DEAD TREES PER ACRE	0.0	0.0	0.0	0.0	0.0	0.0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1985)

LIVE TREES PER ACRE	260	230	160	210	180	240
LIVE BASAL AREA (SQ. FT/A)	68.4	74.4	60.1	53.8	43.9	75.1
LIVE TOTAL VOLUME (CU. FT/A)	1234	1266	1114	862	603	1171
CROWN COMPETITION FACTOR	83	91	74	67	58	94
RELATIVE DENSITY INDEX	26.0	26.8	20.9	20.6	17.0	27.3
MEAN DIAMETER (IN)	6.9	7.7	8.3	6.9	6.7	7.6
SITE HEIGHT (FEET)	48.0	51.7	49.5	43.2	36.6	43.7
AVERAGE CROWN RATIO (%)	67	74	78	72	79	77
AVERAGE CROWN LENGTH (FT)	27.1	30.8	35.4	25.7	25.3	28.2
DEAD TREES PER ACRE	0.0	0.0	0.0	0.0	0.0	0.0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

6 YEARS AFTER TREATMENT (1987)

LIVE TREES PER ACRE	260	230	160	210	180	240
LIVE BASAL AREA (SQ. FT/A)	75.2	82.8	67.4	60.7	49.1	82.5
LIVE TOTAL VOLUME (CU. FT/A)	1407	1471	1297	1017	705	1341
CROWN COMPETITION FACTOR	91	99	81	74	64	101
RELATIVE DENSITY INDEX	27.8	29.0	22.7	22.5	18.5	29.3
MEAN DIAMETER (IN)	7.3	8.1	8.8	7.3	7.1	7.9
SITE HEIGHT (FEET)	50.3	54.3	51.8	45.6	38.5	45.7
DEAD TREES PER ACRE	0.0	0.0	0.0	0.0	0.0	0.0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

8 YEARS AFTER TREATMENT (1989)

LIVE TREES PER ACRE	260	230	160	210	180	240
LIVE BASAL AREA (SQ. FT/A)	82.5	91.9	75.1	67.5	55.4	92.1
LIVE TOTAL VOLUME (CU. FT/A)	1610	1699	1510	1181	830	1573
CROWN COMPETITION FACTOR	97	108	86	81	70	111
RELATIVE DENSITY INDEX	29.9	31.4	24.6	24.4	20.2	31.8
MEAN DIAMETER (IN)	7.6	8.6	9.3	7.7	7.5	8.4
SITE HEIGHT (FEET)	53.0	56.3	54.8	48.1	40.5	48.4
AVERAGE CROWN RATIO (%)	59	63	69	69	68	65
AVERAGE CROWN LENGTH (FT)	26.6	29.2	34.6	27.6	24.8	27.0
DEAD TREES PER ACRE	0.0	0.0	0.0	0.0	0.0	0.0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

PLCT SUMMARY REPORT

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INSTALLATION 239 WAHA #2
 REGION: NORTHEAST OREGON OWNERSHIP: PCTLATCH
 LEGAL DESCRIPTION: T33N R4W SECTION 10 EFFRICIAN: BOISE

PLOT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1981)	200#N	0#N	400#N	400#N	200#N	0#N
SECOND TREATMENT (1987)	N+K	NCNE	NONE	N+K	200#N	N+K

MENSURATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1981)	STAND	AGE =	87			
LIVE TREES PER ACRE	120	127	170	140	190	190
LIVE BASAL AREA (SQ. FT/A)	139.3	151.4	228.0	208.4	219.8	183.9
LIVE TOTAL VOLUME (CU. FT/A)	4645	4484	8098	7270	7097	5652
CROWN COMPETITION FACTOR	123	135	200	179	201	175
RELATIVE DENSITY INDEX	36.5	39.3	57.6	51.3	57.6	50.4
MEAN DIAMETER (IN)	14.6	14.8	15.7	16.5	14.6	13.3
SITE HEIGHT (FEET)	102.0	90.0	97.5	102.9	96.8	84.9
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	93.8	98.8	74.5	87.1	88.2	88.2
PONDEROSA PINE	6.2	1.2	25.4	12.9	11.8	11.8

2 YEARS AFTER TREATMENT (1983)

LIVE TREES PER ACRE	120	120	170	140	190	170
LIVE BASAL AREA (SQ. FT/A)	149.1	156.2	238.0	216.9	226.3	187.0
CROWN COMPETITION FACTOR	130	137	206	185	205	173
RELATIVE DENSITY INDEX	38.4	39.7	59.5	52.8	58.9	49.6
MEAN DIAMETER (IN)	15.1	15.4	16.0	16.8	14.8	14.2
DEAD TREES PER ACRE	0.0	7	0	0	0	20
DEAD BASAL AREA (SQ. FT/A)	0.0	1.8	0.0	0.0	0.0	6.3

4 YEARS AFTER TREATMENT (1985)

LIVE TREES PER ACRE	120	120	150	140	180	170
LIVE BASAL AREA (SQ. FT/A)	158.0	163.4	220.3	225.1	230.4	195.8
LIVE TOTAL VOLUME (CU. FT/A)	5509	5051	7969	8161	7683	6198
CROWN COMPETITION FACTOR	136	143	192	190	207	179
RELATIVE DENSITY INDEX	40.1	41.1	54.4	54.3	58.9	51.4
MEAN DIAMETER (IN)	15.5	15.8	16.4	17.2	15.3	14.5
SITE HEIGHT (FEET)	107.0	94.0	101.3	106.8	102.5	87.4
AVERAGE CROWN RATIO (%)	51	48	35	39	30	36
AVERAGE CROWN LENGTH (FT)	42.9	36.4	33.4	34.0	26.6	28.0
DEAD TREES PER ACRE	0	7	20	0	10	20
DEAD BASAL AREA (SQ. FT/A)	0.0	1.8	25.7	0.0	3.3	6.3
DEAD TOTAL VOLUME (CU. FT/A)	0	40	1036	0	99	203

6 YEARS AFTER TREATMENT (1987)

LIVE TREES PER ACRE	120	120	130	140	180	170
LIVE BASAL AREA (SQ. FT/A)	164.9	167.9	195.0	230.1	234.1	202.8
LIVE TOTAL VOLUME (CU. FT/A)	5855	5255	6873	8440	7927	6508
CROWN COMPETITION FACTOR	141	146	173	193	210	184
RELATIVE DENSITY INDEX	41.4	42.0	47.9	55.2	59.6	52.7
MEAN DIAMETER (IN)	15.9	16.0	16.6	17.4	15.4	14.8
SITE HEIGHT (FEET)	109.1	95.1	100.3	108.0	104.4	88.6
DEAD TREES PER ACRE	0	7	40	0	10	20
DEAD BASAL AREA (SQ. FT/A)	0.0	1.8	56.1	0.0	3.3	6.3
DEAD TOTAL VOLUME (CU. FT/A)	1	40	2401	0	99	203

8 YEARS AFTER TREATMENT (1989)

LIVE TREES PER ACRE	113	113	130	140	160	170
LIVE BASAL AREA (SQ. FT/A)	168.3	171.5	201.5	234.8	228.3	208.8
LIVE TOTAL VOLUME (CU. FT/A)	6120	5512	7251	8812	7900	6833
CROWN COMPETITION FACTOR	142	147	177	196	204	188
RELATIVE DENSITY INDEX	41.4	42.0	49.1	56.1	56.8	53.9
MEAN DIAMETER (IN)	16.5	16.7	16.9	17.5	16.2	15.0
SITE HEIGHT (FEET)	111.5	97.7	102.6	111.0	106.3	90.4
AVERAGE CROWN RATIO (%)	51	54	41	39	40	43
AVERAGE CROWN LENGTH (FT)	47.9	46.8	40.8	39.0	38.2	38.9
DEAD TREES PER ACRE	7	13	40	0	30	20
DEAD BASAL AREA (SQ. FT/A)	2.2	3.4	56.1	0.0	13.8	6.3
DEAD TOTAL VOLUME (CU. FT/A)	51	72	2401	0	406	203

PLCT SUMMARY REECRT

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INSTALLATION 240 QUARTZ CREEK #1
 REGION: NORTHERN IDAHO OWNERSHIP: PCTLATCH
 LEGAL DESCRIPTION: T37N R5E SECTION 8 MERIDIAN: BOISE

PLOT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1981)	400#N	0#N	200#N	0#N	200#N	400#N
SECOND TREATMENT (1987)	N+K	N+K	NCNE	NONE	N+K	NONE

MENSURATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1981)	STAND AGE = 41					
LIVE TREES PER ACRE	360	410	350	280	310	360
LIVE BASAL AREA (SQ. FT/A)	122.5	175.3	97.8	150.1	163.3	185.3
LIVE TOTAL VOLUME (CU. FT/A)	2660	4347	1970	3862	4332	5036
CROWN COMPETITION FACTOR	144	214	130	167	180	214
RELATIVE DENSITY INDEX	43.6	59.9	36.5	47.7	52.1	59.4
MEAN DIAMETER (IN)	7.9	8.9	7.2	9.9	9.8	9.7
SITE HEIGHT (FEET)	67.0	70.0	55.8	74.5	73.3	79.0
SPECIES COMPOSITION (% CP BA)						
DOUGLAS-FIR	65.1	92.2	91.9	83.8	61.5	79.5
GRAND FIR	3.8	0.0	4.8	1.1	6.9	4.2
WESTERN RED CEDAR	8.1	0.0	3.3	0.0	0.0	0.0
WESTERN LARCH	19.2	7.8	0.0	15.1	29.8	16.2
WESTERN WHITE PINE	3.9	0.0	0.0	0.0	1.9	0.0

2 YEARS AFTER TREATMENT (1983)

LIVE TREES PER ACRE	360	410	340	280	310	360
LIVE BASAL AREA (SQ. FT/A)	138.1	192.5	111.6	162.1	178.0	202.5
CROWN COMPETITION FACTOR	160	225	144	178	195	231
RELATIVE DENSITY INDEX	47.7	63.2	40.1	50.5	55.6	63.5
MEAN DIAMETER (IN)	8.4	9.3	7.8	10.3	10.3	10.2
DEAD TREES PER ACRE	0	0	10	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	3.5	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1985)

LIVE TREES PER ACRE	350	410	340	280	310	360
LIVE BASAL AREA (SQ. FT/A)	150.2	206.1	128.3	174.6	192.8	218.8
LIVE TOTAL VOLUME (CU. FT/A)	3580	5412	2873	4880	5617	6494
CROWN COMPETITION FACTOR	170	238	161	192	207	247
RELATIVE DENSITY INDEX	50.4	66.5	44.5	53.4	59.0	67.3
MEAN DIAMETER (IN)	8.9	9.6	8.3	10.7	10.7	10.6
SITE HEIGHT (FEET)	73.9	76.5	63.2	81.3	80.4	86.4
AVERAGE CROWN RATIO (%)	54	45	59	49	49	46
AVERAGE CROWN LENGTH (FT)	31.5	30.2	31.5	35.8	37.3	35.8
DEAD TREES PER ACRE	10	0	10	0	0	0
DEAD BASAL AREA (SQ. FT/A)	2.7	0.0	3.5	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	53	0	75	0	0	0

6 YEARS AFTER TREATMENT (1987)

LIVE TREES PER ACRE	350	410	340	280	310	360
LIVE BASAL AREA (SQ. FT/A)	164.3	222.7	144.3	188.6	207.0	234.9
LIVE TOTAL VOLUME (CU. FT/A)	4098	6057	3360	5444	6224	7176
CROWN COMPETITION FACTOR	182	254	178	204	218	260
RELATIVE DENSITY INDEX	53.9	70.5	48.6	56.6	62.2	71.0
MEAN DIAMETER (IN)	9.3	10.0	8.8	11.1	11.1	10.9
SITE HEIGHT (FEET)	77.1	79.4	66.4	84.4	83.4	89.5
DEAD TREES PER ACRE	10	0	10	0	0	0
DEAD BASAL AREA (SQ. FT/A)	2.7	0.0	3.5	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	53	0	75	0	0	0

8 YEARS AFTER TREATMENT (1989)

LIVE TREES PER ACRE	340	410	320	280	310	360
LIVE BASAL AREA (SQ. FT/A)	178.5	239.1	151.7	201.0	222.0	248.0
LIVE TOTAL VOLUME (CU. FT/A)	4658	6710	3692	5997	6920	7766
CROWN COMPETITION FACTOR	200	268	187	215	230	270
RELATIVE DENSITY INDEX	57.0	74.3	49.7	59.3	65.6	74.0
MEAN DIAMETER (IN)	9.8	10.3	9.3	11.5	11.5	11.2
SITE HEIGHT (FEET)	80.7	82.5	69.2	87.7	86.9	92.0
AVERAGE CROWN RATIO (%)	50	45	51	46	50	41
AVERAGE CROWN LENGTH (FT)	32.5	32.5	31.2	36.5	38.9	33.0
DEAD TREES PER ACRE	20	0	30	0	0	0
DEAD BASAL AREA (SQ. FT/A)	3.7	0.0	10.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	71	0	206	0	0	0

PLOT SUMMARY REPORT

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INSTALLATION 241 WOODY MTN
 REGION: CENTRAL WASHINGTON OWNERSHIP: WASHINGTON DNR
 LEGAL DESCRIPTION: T33N R24E SECTION 9 MERIDIAN: WILLAMETTE

PLOT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1981)	200#N	400#N	0#N	0#N	200#N	400#N
SECOND TREATMENT (1987)	200#N	NONE	NONE	N+K	NONE	200#N

MENSURATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1981)	STAND	AGE =	72			
LIVE TREES PER ACRE	360	340	230	270	280	340
LIVE BASAL AREA (SQ. FT/A)	130.6	123.4	73.6	96.9	132.7	125.2
LIVE TOTAL VOLUME (CU. FT/A)	2907	2792	1582	2193	3372	2886
CROWN COMPETITION FACTOR	152	145	93	122	159	150
RELATIVE DENSITY INDEX	45.7	43.2	26.6	34.0	43.5	43.7
MEAN DIAMETER (IN)	8.1	8.2	7.7	8.1	9.3	8.2
SITE HEIGHT (FEET)	60.6	62.7	56.7	62.9	73.1	63.9
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	76.6	78.8	94.5	100.0	98.6	84.8
WESTERN LARCH	0.0	0.0	0.0	0.0	0.0	2.4
LCDGEPOLE PINE	0.0	0.0	5.5	0.0	0.0	0.0
PCNDEROSA PINE	23.4	21.2	0.0	0.0	1.3	12.8

2 YEARS AFTER TREATMENT (1983)

LIVE TREES PER ACRE	350	340	230	270	280	340
LIVE BASAL AREA (SQ. FT/A)	138.4	138.5	80.9	105.9	144.6	142.7
CROWN COMPETITION FACTOR	162	159	100	131	170	168
RELATIVE DENSITY INDEX	47.4	47.1	28.5	36.4	46.4	48.2
MEAN DIAMETER (IN)	8.5	8.6	8.0	8.5	9.7	8.8
DEAD TREES PER ACRE	10	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	4.1	0.0	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1985)

LIVE TREES PER ACRE	340	340	230	270	280	340
LIVE BASAL AREA (SQ. FT/A)	146.5	155.8	89.4	115.3	157.3	161.7
LIVE TOTAL VOLUME (CU. FT/A)	3468	3758	2021	2758	4187	3991
CROWN COMPETITION FACTOR	169	175	109	141	182	188
RELATIVE DENSITY INDEX	49.1	51.4	30.8	38.8	49.4	52.9
MEAN DIAMETER (IN)	8.9	9.2	8.4	8.8	10.1	9.3
SITE HEIGHT (FEET)	66.9	67.8	60.1	67.6	77.4	69.8
AVERAGE CROWN RATIO (%)	42	50	51	52	42	47
AVERAGE CROWN LENGTH (FT)	24.5	29.8	27.9	30.7	28.9	28.4
DEAD TREES PER ACRE	20	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	9.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	218	0	0	0	0	0

6 YEARS AFTER TREATMENT (1987)

LIVE TREES PER ACRE	320	340	230	270	270	340
LIVE BASAL AREA (SQ. FT/A)	148.4	165.2	95.6	121.7	154.5	172.1
LIVE TOTAL VOLUME (CU. FT/A)	3591	4084	2204	2981	4188	4375
CROWN COMPETITION FACTOR	171	188	116	149	178	196
RELATIVE DENSITY INDEX	48.9	53.8	32.4	40.3	48.3	55.4
MEAN DIAMETER (IN)	9.2	9.4	8.7	9.1	10.2	9.6
SITE HEIGHT (FEET)	68.3	69.5	61.4	69.7	79.1	72.2
DEAD TREES PER ACRE	40	0	0	0	10	0
DEAD BASAL AREA (SQ. FT/A)	14.2	0.0	0.0	0.0	9.7	0.0
DEAD TOTAL VOLUME (CU. FT/A)	339	1	0	0	270	0

8 YEARS AFTER TREATMENT (1989)

LIVE TREES PER ACRE	300	330	230	270	260	330
LIVE BASAL AREA (SQ. FT/A)	144.6	167.8	100.8	129.7	158.5	177.2
LIVE TOTAL VOLUME (CU. FT/A)	3562	4235	2363	3253	4371	4611
CROWN COMPETITION FACTOR	168	190	121	158	181	200
RELATIVE DENSITY INDEX	47.2	54.0	33.7	42.3	48.8	56.3
MEAN DIAMETER (IN)	9.4	9.7	9.0	9.4	10.6	9.9
SITE HEIGHT (FEET)	71.5	71.5	63.0	71.7	80.5	74.1
AVERAGE CROWN RATIO (%)	47	50	51	52	47	53
AVERAGE CROWN LENGTH (FT)	29.7	31.8	29.7	32.8	34.6	35.0
DEAD TREES PER ACRE	60	10	0	0	20	10
DEAD BASAL AREA (SQ. FT/A)	25.7	5.3	0.0	0.0	11.6	5.7
DEAD TOTAL VOLUME (CU. FT/A)	624	125	0	0	313	144

PLCT SUMMARY REPORT

INSTALLATION 242 N.F. NINEMILE CREEK
 REGION: CENTRAL WASHINGTON OWNERSHIP: WASHINGTON DNR
 LEGAL DESCRIPTION: T39N R24E SECTION 13 MERICIAN: WILLAMETTE

PLOT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1981)	400#N	0#N	200#N	400#N	200#N	0#N
SECOND TREATMENT (1987)	200#N	N+K	200#N	NCNE	NCNE	NONE

MENSURATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1981)

STAND AGE = 87

LIVE TREES PER ACRE	470	400	500	300	520	390
LIVE BASAL AREA (SQ.FT/A)	125.3	117.9	130.6	122.2	176.0	156.7
LIVE TOTAL VOLUME (CU.FT/A)	2949	2920	3322	2942	4148	4065
CROWN COMPETITION FACTOR	164	147	163	145	217	186
RELATIVE DENSITY INDEX	47.4	43.5	49.6	41.6	63.0	53.5
MEAN DIAMETER (IN)	7.0	7.3	6.9	6.6	7.8	8.0
SITE HEIGHT (FEET)	68.2	67.6	71.9	70.0	69.1	76.1
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	95.9	83.8	87.3	100.0	100.0	98.4
LODGEPOLE PINE	4.1	16.2	12.7	0.0	0.0	1.5

2 YEARS AFTER TREATMENT (1983)

LIVE TREES PER ACRE	460	400	500	300	520	390
LIVE BASAL AREA (SQ.FT/A)	132.3	124.2	138.0	131.5	164.8	162.1
CROWN COMPETITION FACTOR	172	155	171	158	225	192
RELATIVE DENSITY INDEX	49.1	45.2	51.7	43.9	65.4	54.9
MEAN DIAMETER (IN)	7.2	7.5	7.1	9.0	8.0	8.7
DEAD TREES PER ACRE	10	0	0	0	0	0
DEAD BASAL AREA (SQ.FT/A)	4.1	0.0	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1985)

LIVE TREES PER ACRE	460	400	500	300	520	390
LIVE BASAL AREA (SQ.FT/A)	142.4	130.5	145.6	140.3	193.2	167.9
LIVE TOTAL VOLUME (CU.FT/A)	3459	3313	3791	3512	4678	4439
CROWN COMPETITION FACTOR	183	161	179	167	233	196
RELATIVE DENSITY INDEX	51.9	46.9	53.9	46.1	67.6	56.3
MEAN DIAMETER (IN)	7.5	7.7	7.3	9.3	8.2	8.9
SITE HEIGHT (FEET)	70.8	70.2	75.2	73.6	71.7	79.3
AVERAGE CROWN RATIO (%)	34	36	37	41	40	37
AVERAGE CROWN LENGTH (FT)	18.5	20.0	19.6	24.8	21.5	22.3
DEAD TREES PER ACRE	10	0	0	0	0	0
DEAD BASAL AREA (SQ.FT/A)	4.1	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU.FT/A)	81	0	0	0	0	0

6 YEARS AFTER TREATMENT (1987)

LIVE TREES PER ACRE	450	400	500	300	520	380
LIVE BASAL AREA (SQ.FT/A)	144.6	133.5	149.7	145.6	177.4	169.8
LIVE TOTAL VOLUME (CU.FT/A)	3555	3444	3962	3718	4859	4579
CROWN COMPETITION FACTOR	184	164	182	173	238	197
RELATIVE DENSITY INDEX	52.2	47.7	55.0	47.4	68.7	56.4
MEAN DIAMETER (IN)	7.7	7.8	7.4	9.4	8.3	9.0
SITE HEIGHT (FEET)	72.1	71.3	76.6	75.6	72.8	81.0
DEAD TREES PER ACRE	20	0	0	0	0	10
DEAD BASAL AREA (SQ.FT/A)	7.2	0.0	0.0	0.0	0.0	1.5
DEAD TOTAL VOLUME (CU.FT/A)	154	0	0	0	0	23

8 YEARS AFTER TREATMENT (1989)

LIVE TREES PER ACRE	440	400	480	300	520	370
LIVE BASAL AREA (SQ.FT/A)	149.1	139.3	151.3	151.3	203.7	172.9
LIVE TOTAL VOLUME (CU.FT/A)	3685	3629	4069	3912	5085	4742
CROWN COMPETITION FACTOR	188	169	182	177	245	199
RELATIVE DENSITY INDEX	53.1	49.3	54.9	48.8	70.3	56.0
MEAN DIAMETER (IN)	7.5	8.0	7.6	9.6	8.4	9.3
SITE HEIGHT (FEET)	72.8	72.5	77.6	76.7	74.5	82.0
AVERAGE CROWN RATIO (%)	47	42	46	49	43	44
AVERAGE CROWN LENGTH (FT)	28.5	26.8	30.0	32.5	27.8	30.0
DEAD TREES PER ACRE	30	0	20	0	0	20
DEAD BASAL AREA (SQ.FT/A)	9.1	0.0	4.1	0.0	0.0	3.3
DEAD TOTAL VOLUME (CU.FT/A)	216	0	90	0	0	57

PLCT SUMMARY REPORT

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INSTALLATION 243 STARVATION LAKE
 REGION: NORTHEAST WASHINGTON CWNERSHIP: WASHINGTON DNR
 LEGAL DESCRIPTION: T35N R40E SECTION 13 MERIDIAN: WILLABETTE

PLOT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1981)	0#N	200#N	400#N	400#N	200#N	0#N
SECOND TREATMENT (1987)	N+K	NONE	200#N	N+K	N+K	NONE

MEASUREMENTAL CHARACTERISTICS:

AT TIME OF TREATMENT (1981)	STAND AGE = 73					
LIVE TREES PER ACRE	220	210	300	220	260	230
LIVE BASAL AREA (SQ. FT/A)	101.3	106.7	129.9	154.8	146.0	143.4
LIVE TOTAL VOLUME (CU. FT/A)	2412	2478	2978	4414	3726	4090
CROWN COMPETITION FACTOR	122	122	152	169	172	163
RELATIVE DENSITY INDEX	33.4	34.3	43.5	45.9	45.8	43.8
MEAN DIAMETER (IN)	9.2	9.6	8.9	11.4	10.1	10.7
SITE HEIGHT (FEET)	68.8	65.3	68.4	81.2	72.8	85.4
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	94.6	80.5	89.5	98.1	100.0	93.8
WESTERN LARCH	5.4	13.8	9.4	1.9	0.0	6.2
PONDEROSA PINE	0.0	5.7	1.1	0.0	0.0	0.0

2 YEARS AFTER TREATMENT (1983)

LIVE TREES PER ACRE	220	210	300	220	250	230
LIVE BASAL AREA (SQ. FT/A)	108.5	115.6	139.4	163.5	151.9	152.0
CROWN COMPETITION FACTOR	122	131	163	178	175	171
RELATIVE DENSITY INDEX	35.2	36.5	45.9	47.8	46.8	45.8
MEAN DIAMETER (IN)	9.5	10.0	9.2	11.7	10.6	11.0
DEAD TREES PER ACRE	0	0	0	0	10	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	2.4	0.0

4 YEARS AFTER TREATMENT (1985)

LIVE TREES PER ACRE	200	210	290	200	250	220
LIVE BASAL AREA (SQ. FT/A)	107.0	123.9	147.7	164.7	161.5	155.3
LIVE TOTAL VOLUME (CU. FT/A)	2708	3082	3600	4920	4379	4631
CROWN COMPETITION FACTOR	124	138	172	176	184	171
RELATIVE DENSITY INDEX	34.0	38.4	47.5	47.0	48.9	46.0
MEAN DIAMETER (IN)	9.9	10.4	9.7	12.3	10.9	11.4
SITE HEIGHT (FEET)	73.6	70.1	72.1	85.9	78.1	89.9
AVERAGE CROWN RATIO (%)	36	41	37	33	37	34
AVERAGE CROWN LENGTH (FT)	22.6	26.5	22.2	25.9	25.7	25.1
DEAD TREES PER ACRE	20	0	10	20	10	10
DEAD BASAL AREA (SQ. FT/A)	7.6	0.0	1.5	6.8	2.4	4.6
DEAD TOTAL VOLUME (CU. FT/A)	175	0	19	170	58	123

6 YEARS AFTER TREATMENT (1987)

LIVE TREES PER ACRE	200	210	290	200	250	210
LIVE BASAL AREA (SQ. FT/A)	112.1	130.8	154.5	170.8	168.4	153.3
LIVE TOTAL VOLUME (CU. FT/A)	2896	3325	3840	5192	4659	4669
CROWN COMPETITION FACTOR	129	144	178	181	190	168
RELATIVE DENSITY INDEX	35.2	40.0	49.1	48.3	50.5	45.1
MEAN DIAMETER (IN)	10.1	10.7	9.9	12.5	11.1	11.6
SITE HEIGHT (FEET)	75.6	71.8	73.3	87.6	79.9	92.0
DEAD TREES PER ACRE	20	0	10	20	10	20
DEAD BASAL AREA (SQ. FT/A)	7.6	0.0	1.5	6.8	2.4	13.2
DEAD TOTAL VOLUME (CU. FT/A)	175	0	19	170	58	371

8 YEARS AFTER TREATMENT (1989)

LIVE TREES PER ACRE	200	200	290	180	250	210
LIVE BASAL AREA (SQ. FT/A)	116.2	131.3	159.5	162.9	174.0	157.8
LIVE TOTAL VOLUME (CU. FT/A)	3072	3406	4071	5060	4928	4890
CROWN COMPETITION FACTOR	133	142	182	169	194	171
RELATIVE DENSITY INDEX	36.2	39.6	50.3	45.4	51.8	46.0
MEAN DIAMETER (IN)	10.3	11.0	10.0	12.9	11.3	11.7
SITE HEIGHT (FEET)	77.3	73.3	75.9	89.7	82.3	93.8
AVERAGE CROWN RATIO (%)	41	43	39	37	38	39
AVERAGE CROWN LENGTH (FT)	27.9	29.3	25.3	30.9	28.3	32.4
DEAD TREES PER ACRE	20	10	10	40	10	20
DEAD BASAL AREA (SQ. FT/A)	7.6	3.6	1.5	18.5	2.4	13.2
DEAD TOTAL VOLUME (CU. FT/A)	175	86	19	511	58	371

PLCT SUMMARY REPORT

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INSTALLATION 244 BIG LOCKOUT MTN #1
 REGION: NORTHEAST OREGON OWNERSHIP: BLM (OREGON)
 LEGAL DESCRIPTION: T11S R45E SECTION 19 MERIDIAN: WILLAMETTE

PLOT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1981)	200#N	400#N	0#N	400#N	200#N	0#N
SECOND TREATMENT (1987)	200#N	200#N	NONE	NONE	NONE	N+K

MENSURATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1981)	STAND	AGE =	90			
LIVE TREES PER ACRE	140	130	180	280	290	220
LIVE BASAL AREA (SQ. FT/A)	264.7	263.9	265.2	286.7	300.8	251.9
LIVE TOTAL VOLUME (CU. FT/A)	7697	8474	9416	8305	9232	6796
CROWN COMPETITION FACTOR	223	219	234	275	299	240
RELATIVE DENSITY INDEX	61.3	60.1	65.4	77.5	81.0	66.2
MEAN DIAMETER (IN)	18.6	19.3	16.4	13.7	13.8	14.5
SITE HEIGHT (FEET)	88.1	98.0	108.8	89.3	94.2	84.6
SPECIES COMPOSITION (% CP BA)						
DOUGLAS-FIR	100.0	100.0	100.0	100.0	100.0	100.0

2 YEARS AFTER TREATMENT (1983)

LIVE TREES PER ACRE	140	130	180	280	290	220
LIVE BASAL AREA (SQ. FT/A)	271.1	270.1	270.6	291.4	306.1	257.6
CROWN COMPETITION FACTOR	227	223	237	278	303	244
RELATIVE DENSITY INDEX	62.4	61.1	66.4	78.4	82.1	67.3
MEAN DIAMETER (IN)	18.8	19.5	16.6	13.8	13.9	14.6
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1985)

LIVE TREES PER ACRE	140	130	180	280	290	220
LIVE BASAL AREA (SQ. FT/A)	278.8	278.2	278.2	297.6	313.7	263.4
LIVE TOTAL VOLUME (CU. FT/A)	8506	9282	10217	9002	9960	7444
CROWN COMPETITION FACTOR	232	228	242	282	308	247
RELATIVE DENSITY INDEX	63.8	62.5	67.8	79.7	83.6	68.4
MEAN DIAMETER (IN)	19.1	19.8	16.8	14.0	14.1	14.8
SITE HEIGHT (FEET)	92.3	101.5	112.7	87.9	97.9	88.6
AVERAGE CROWN RATIO (%)	52	49	38	32	31	38
AVERAGE CROWN LENGTH (FT)	42.6	44.2	33.5	24.7	26.4	27.5
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	0	0	0

6 YEARS AFTER TREATMENT (1987)

LIVE TREES PER ACRE	140	130	180	280	290	220
LIVE BASAL AREA (SQ. FT/A)	285.6	285.7	284.0	301.9	319.0	269.2
LIVE TOTAL VOLUME (CU. FT/A)	8888	9668	10562	9283	10275	7733
CROWN COMPETITION FACTOR	236	232	246	285	311	251
RELATIVE DENSITY INDEX	64.9	63.8	68.9	80.5	84.7	69.5
MEAN DIAMETER (IN)	19.3	20.1	17.0	14.1	14.2	15.0
SITE HEIGHT (FEET)	94.1	102.9	113.9	89.9	99.3	90.5
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	0	0	0

8 YEARS AFTER TREATMENT (1989)

LIVE TREES PER ACRE	140	130	180	270	280	220
LIVE BASAL AREA (SQ. FT/A)	291.1	290.3	288.4	305.6	319.6	273.9
LIVE TOTAL VOLUME (CU. FT/A)	9256	10012	10865	9553	10467	8072
CROWN COMPETITION FACTOR	239	235	245	287	310	254
RELATIVE DENSITY INDEX	65.9	64.5	69.7	80.5	84.0	70.5
MEAN DIAMETER (IN)	19.5	20.2	17.1	14.4	14.5	15.1
SITE HEIGHT (FEET)	96.3	107.0	112.8	91.7	100.3	92.8
AVERAGE CROWN RATIO (%)	53	56	45	44	40	43
AVERAGE CROWN LENGTH (FT)	52.1	55.7	47.6	38.9	36.6	35.4
DEAD TREES PER ACRE	0	0	0	10	10	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.9	3.4	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	22	53	0

PLCT SUMMARY REPORT

INSTALLATION 245 BIG LOCKOUT MTN #2
 REGION: NORTHEAST OREGON OWNERSHIP: BLM (OREGON)
 LEGAL DESCRIPTION: T12S R44E SECTION 12 MERIDIAN: WILLAMETTE

PLOT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1981)	400#N	200#N	0#N	200#N	0#N	400#N
SECOND TREATMENT (1987)	200#N	200#N	N+K	NONE	NONE	N+K

MENSURATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1981)	STAND AGE = 52					
LIVE TREES PER ACRE	150	170	220	340	330	300
LIVE BASAL AREA (SQ. FT/A)	216.1	178.2	168.3	202.4	142.0	243.2
LIVE TOTAL VOLUME (CU. FT/A)	4619	3681	3252	3751	2533	4891
CROWN COMPETITION FACTOR	196	177	178	227	167	253
RELATIVE DENSITY INDEX	53.6	47.9	48.9	62.6	47.6	69.6
MEAN DIAMETER (IN)	16.3	13.9	11.8	10.4	8.9	12.2
SITE HEIGHT (FEET)	65.3	62.1	56.8	55.5	53.3	59.7
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	100.0	100.0	100.0	100.0	100.0	100.0

2 YEARS AFTER TREATMENT (1983)

LIVE TREES PER ACRE	150	170	220	340	330	300
LIVE BASAL AREA (SQ. FT/A)	224.1	185.8	174.1	211.4	147.4	253.2
CROWN COMPETITION FACTOR	202	182	182	234	172	260
RELATIVE DENSITY INDEX	55.1	49.4	50.2	64.7	49.0	71.8
MEAN DIAMETER (IN)	16.5	14.1	12.0	10.7	9.0	12.4
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1985)

LIVE TREES PER ACRE	150	170	200	300	310	300
LIVE BASAL AREA (SQ. FT/A)	231.6	194.5	174.3	205.9	147.2	264.5
LIVE TOTAL VOLUME (CU. FT/A)	5282	4299	3566	4017	2813	5675
CROWN COMPETITION FACTOR	207	188	179	224	169	268
RELATIVE DENSITY INDEX	56.5	51.1	49.0	61.5	48.2	74.2
MEAN DIAMETER (IN)	16.8	14.5	12.6	11.2	9.3	12.7
SITE HEIGHT (FEET)	66.6	66.8	59.7	58.9	57.2	65.1
AVERAGE CROWN RATIO (%)	52	58	43	40	39	41
AVERAGE CROWN LENGTH (FT)	32.7	33.8	22.6	19.5	17.4	22.7
DEAD TREES PER ACRE	0	0	20	40	20	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	6.2	13.5	6.3	0.0
DEAD TOTAL VOLUME (CU. FT/A)	2	0	103	244	108	8

6 YEARS AFTER TREATMENT (1987)

LIVE TREES PER ACRE	150	170	190	290	290	290
LIVE BASAL AREA (SQ. FT/A)	238.4	200.9	177.8	207.5	146.4	269.1
LIVE TOTAL VOLUME (CU. FT/A)	5583	4558	3717	4133	2865	5926
CROWN COMPETITION FACTOR	212	192	180	224	166	269
RELATIVE DENSITY INDEX	57.7	52.4	49.1	61.3	47.2	74.5
MEAN DIAMETER (IN)	17.1	14.7	13.1	11.4	9.6	13.0
SITE HEIGHT (FEET)	68.6	69.2	61.0	60.2	58.5	67.1
DEAD TREES PER ACRE	0	0	30	50	40	10
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	7.4	16.7	10.8	4.1
DEAD TOTAL VOLUME (CU. FT/A)	2	0	118	298	160	71

8 YEARS AFTER TREATMENT (1989)

LIVE TREES PER ACRE	130	170	190	260	240	250
LIVE BASAL AREA (SQ. FT/A)	228.2	204.9	181.6	199.4	141.7	261.7
LIVE TOTAL VOLUME (CU. FT/A)	5498	4722	3881	4062	2846	5938
CROWN COMPETITION FACTOR	199	195	183	213	157	257
RELATIVE DENSITY INDEX	53.9	53.1	49.9	57.9	43.9	70.3
MEAN DIAMETER (IN)	17.9	14.9	13.2	11.9	10.4	13.8
SITE HEIGHT (FEET)	70.5	70.8	63.1	62.7	59.3	68.7
AVERAGE CROWN RATIO (%)	63	53	50	46	46	59
AVERAGE CROWN LENGTH (FT)	42.8	33.3	29.0	25.8	24.1	38.7
DEAD TREES PER ACRE	20	0	30	80	90	50
DEAD BASAL AREA (SQ. FT/A)	13.4	0.0	7.4	29.1	18.4	16.8
DEAD TOTAL VOLUME (CU. FT/A)	286	6	118	524	259	281

PLOT SUMMARY REPORT

INSTALLATION 246 KETTLE FALLS
 REGION: NORTHEAST WASHINGTON OWNERSHIP: WASHINGTON DNR
 LEGAL DESCRIPTION: T36N R37E SECTION 36 MERIDIAN: WILLAMETTE

PLOT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1982)	0#N	200#N	400#N	200#N	400#N	0#N
SECOND TREATMENT (1988)	N+K	N+K	N+K	200#N	NONE	NONE

MEASUREMENTAL CHARACTERISTICS:

AT TIME OF TREATMENT (1982)	STAND	AGE =	34			
LIVE TREES PER ACRE	390	320	490	260	370	250
LIVE BASAL AREA (SQ. FT/A)	100.7	86.0	113.8	99.1	104.7	94.2
LIVE TOTAL VOLUME (CU. FT/A)	196.8	175.0	206.7	228.0	225.0	234.9
CROWN COMPETITION FACTOR	126	109	152	121	138	115
RELATIVE DENSITY INDEX	38.4	32.5	44.5	34.3	39.0	32.7
MEAN DIAMETER (IN)	6.9	7.0	6.5	8.4	7.2	8.3
SITE HEIGHT (FEET)	51.3	52.2	48.6	64.1	60.7	72.1
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	88.9	89.1	95.7	100.0	100.0	100.0
PONDEROSA PINE	11.1	10.9	4.3	0.0	0.0	0.0

2 YEARS AFTER TREATMENT (1984)

LIVE TREES PER ACRE	390	320	490	260	370	250
LIVE BASAL AREA (SQ. FT/A)	111.8	97.3	123.1	112.1	117.0	102.0
CROWN COMPETITION FACTOR	139	121	169	134	149	122
RELATIVE DENSITY INDEX	41.5	35.6	49.0	37.6	42.4	34.7
MEAN DIAMETER (IN)	7.3	7.5	6.9	8.9	7.6	8.6
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1986)

LIVE TREES PER ACRE	390	320	490	260	350	250
LIVE BASAL AREA (SQ. FT/A)	118.9	104.2	139.1	121.0	124.3	107.8
LIVE TOTAL VOLUME (CU. FT/A)	258.7	232.2	279.5	306.2	292.1	292.7
CROWN COMPETITION FACTOR	146	127	180	141	156	127
RELATIVE DENSITY INDEX	43.5	37.5	51.8	39.8	43.8	36.1
MEAN DIAMETER (IN)	7.5	7.7	7.2	9.2	8.1	8.9
SITE HEIGHT (FEET)	57.8	58.3	55.0	72.0	66.8	79.1
AVERAGE CROWN RATIO (%)	44	49	48	47	47	45
AVERAGE CROWN LENGTH (FT)	22.0	26.1	22.8	28.7	25.6	29.0
DEAD TREES PER ACRE	0	0	0	0	20	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	1.3	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	1	1	0	25	0

6 YEARS AFTER TREATMENT (1988)

LIVE TREES PER ACRE	360	300	450	240	290	250
LIVE BASAL AREA (SQ. FT/A)	122.2	104.8	136.8	124.1	113.2	111.0
LIVE TOTAL VOLUME (CU. FT/A)	274.5	239.8	282.3	325.2	270.0	310.4
CROWN COMPETITION FACTOR	149	126	176	142	140	130
RELATIVE DENSITY INDEX	43.5	37.0	50.1	39.8	38.9	36.9
MEAN DIAMETER (IN)	7.9	8.0	7.5	9.7	8.5	9.0
SITE HEIGHT (FEET)	59.4	58.4	56.3	74.3	68.0	82.3
DEAD TREES PER ACRE	30	20	40	20	80	0
DEAD BASAL AREA (SQ. FT/A)	2.0	3.6	7.5	2.0	15.7	0.0
DEAD TOTAL VOLUME (CU. FT/A)	32	76	150	34	373	0

8 YEARS AFTER TREATMENT (1990)

LIVE TREES PER ACRE	330	260	440	210	290	240
LIVE BASAL AREA (SQ. FT/A)	126.1	102.9	142.3	128.1	118.9	114.7
LIVE TOTAL VOLUME (CU. FT/A)	292.8	244.4	304.2	346.8	288.8	327.2
CROWN COMPETITION FACTOR	155	125	181	142	146	133
RELATIVE DENSITY INDEX	43.6	35.3	51.3	39.4	40.4	37.5
MEAN DIAMETER (IN)	8.4	8.5	7.7	10.6	8.7	9.4
SITE HEIGHT (FEET)	61.3	64.7	59.4	77.1	67.5	83.7
AVERAGE CROWN RATIO (%)	42	47	43	44	43	39
AVERAGE CROWN LENGTH (FT)	23.5	27.2	22.0	30.1	25.0	26.5
DEAD TREES PER ACRE	60	60	50	50	80	10
DEAD BASAL AREA (SQ. FT/A)	5.8	11.8	11.0	5.1	15.7	0.6
DEAD TOTAL VOLUME (CU. FT/A)	103	258	219	105	379	12

PLOT SUMMARY REPORT

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INSTALLATION 247 PARK RAPIDS

REGION: NORTHEAST WASHINGTON

OWNERSHIP: WASHINGTON DNR

LEGAL DESCRIPTION: T35N R40E SECTION 24

MERIDIAN: WILLAMETTE

PLOT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1982)	200#N	0#N	400#N	200#N	400#N	0#N
SECOND TREATMENT (1988)	N+K	NONE	N+K	NONE	NONE	N+K
MEASUREMENTAL CHARACTERISTICS:						
AT TIME OF TREATMENT (1982)	STAND AGE = 76					
LIVE TREES PER ACRE	190	200	300	190	210	190
LIVE BASAL AREA (SQ. FT/A)	143.1	120.7	178.4	124.5	137.0	120.9
LIVE TOTAL VOLUME (CU. FT/A)	3985	3464	5072	3258	3804	3184
CROWN COMPETITION FACTOR	154	135	190	141	143	133
RELATIVE DENSITY INDEX	41.7	37.2	55.2	37.6	41.4	36.8
MEAN DIAMETER (IN)	11.8	10.5	10.4	11.0	10.9	10.8
SITE HEIGHT (FEET)	85.2	81.4	81.4	74.8	79.3	75.1
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	82.9	89.8	73.4	96.8	78.4	95.9
WESTERN LARCH	17.1	4.4	22.6	3.2	0.0	4.0
LODGPOLE PINE	0.0	5.8	4.0	0.0	0.0	0.0
PONDEROSA PINE	0.0	0.0	0.0	0.0	21.6	0.0
2 YEARS AFTER TREATMENT (1984)						
LIVE TREES PER ACRE	190	200	300	190	210	190
LIVE BASAL AREA (SQ. FT/A)	154.3	128.4	189.3	137.0	148.7	130.5
CROWN COMPETITION FACTOR	164	142	199	152	153	141
RELATIVE DENSITY INDEX	44.2	39.0	57.7	40.4	44.0	39.0
MEAN DIAMETER (IN)	12.2	10.8	10.8	11.5	11.4	11.2
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
4 YEARS AFTER TREATMENT (1986)						
LIVE TREES PER ACRE	190	190	270	170	190	190
LIVE BASAL AREA (SQ. FT/A)	162.7	131.9	181.8	132.9	151.4	136.6
LIVE TOTAL VOLUME (CU. FT/A)	4720	3926	5393	3644	4442	3707
CROWN COMPETITION FACTOR	170	143	188	144	152	147
RELATIVE DENSITY INDEX	46.0	39.3	54.5	38.4	43.5	40.3
MEAN DIAMETER (IN)	12.5	11.3	11.1	12.0	12.1	11.5
SITE HEIGHT (FEET)	89.3	84.7	84.9	78.8	78.9	77.9
AVERAGE CROWN RATIO (%)	50	40	33	49	41	44
AVERAGE CROWN LENGTH (FT)	38.2	30.3	25.6	35.4	30.4	31.4
DEAD TREES PER ACRE	0	10	30	20	20	0
DEAD BASAL AREA (SQ. FT/A)	0.0	2.2	15.5	11.9	4.4	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	43	395	306	106	0
6 YEARS AFTER TREATMENT (1988)						
LIVE TREES PER ACRE	190	190	260	170	190	190
LIVE BASAL AREA (SQ. FT/A)	167.0	136.1	181.0	138.8	156.7	140.4
LIVE TOTAL VOLUME (CU. FT/A)	4937	4123	5490	3896	4712	3900
CROWN COMPETITION FACTOR	173	147	188	148	157	151
RELATIVE DENSITY INDEX	46.9	40.2	53.8	39.7	44.7	41.1
MEAN DIAMETER (IN)	12.7	11.5	11.3	12.2	12.3	11.6
SITE HEIGHT (FEET)	90.7	86.6	87.0	81.0	80.7	79.5
DEAD TREES PER ACRE	0	10	40	20	20	0
DEAD BASAL AREA (SQ. FT/A)	0.0	2.2	20.4	11.9	4.4	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	43	533	306	106	0
8 YEARS AFTER TREATMENT (1990)						
LIVE TREES PER ACRE	190	190	260	170	190	180
LIVE BASAL AREA (SQ. FT/A)	173.5	141.3	187.4	145.3	163.2	143.2
LIVE TOTAL VOLUME (CU. FT/A)	5228	4372	5798	4136	4992	4072
CROWN COMPETITION FACTOR	178	151	193	153	162	153
RELATIVE DENSITY INDEX	48.2	41.3	55.3	41.1	46.1	41.2
MEAN DIAMETER (IN)	12.9	11.7	11.5	12.5	12.5	12.1
SITE HEIGHT (FEET)	92.9	88.8	88.6	82.2	82.2	81.7
AVERAGE CROWN RATIO (%)	49	44	35	49	42	45
AVERAGE CROWN LENGTH (FT)	38.8	34.9	28.9	37.0	32.3	34.0
DEAD TREES PER ACRE	0	10	40	20	20	10
DEAD BASAL AREA (SQ. FT/A)	0.0	2.2	20.4	11.9	4.4	3.7
DEAD TOTAL VOLUME (CU. FT/A)	0	43	533	306	106	92

PLCOT SUMMARY REPORT

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INSTALLATION 248 QUINEY FLAT

REGION: CENTRAL WASHINGTON

OWNERSHIP: BOISE CASCADE

LEGAL DESCRIPTION: T5N R14E SECTION 1

MERIDIAN: WILLAMETTE

PLOT NUMBER

INITIAL TREATMENT (1982)

SECOND TREATMENT (1988)

1	2	3	4	5	6
400#N	0#N	200#N	400#N	0#N	200#N
NONE	NONE	200#N	200#N	N+K	NONE

MENSURATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1982)

STAND AGE = 64

LIVE TREES PER ACRE	220	190	210	180	170	170
LIVE BASAL AREA (SQ. FT/A)	129.6	117.3	125.7	106.2	118.5	90.9
LIVE TOTAL VOLUME (CU. FT/A)	3312	2890	3065	2592	3027	2101
CROWN COMPETITION FACTOR	148	137	141	119	131	101
RELATIVE DENSITY INDEX	40.2	36.0	38.8	32.9	35.2	28.9
MEAN DIAMETER (IN)	10.4	10.6	10.5	10.4	11.3	9.9
SITE HEIGHT (FEET)	76.3	71.9	69.4	74.4	74.3	65.0
SPECIES COMPOSITION (% OF SA)						
DOUGLAS-FIR	98.6	100.0	92.8	92.9	97.8	81.8
ponderosa pine	1.3	0.0	7.2	7.1	2.2	18.2

2 YEARS AFTER TREATMENT (1984)

LIVE TREES PER ACRE	220	190	210	180	170	170
LIVE BASAL AREA (SQ. FT/A)	146.1	131.8	142.6	119.9	131.9	106.2
CROWN COMPETITION FACTOR	162	151	157	132	141	116
RELATIVE DENSITY INDEX	44.0	39.2	42.7	36.1	38.2	32.4
MEAN DIAMETER (IN)	11.0	11.3	11.2	11.0	11.9	10.7
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1986)

LIVE TREES PER ACRE	220	190	210	180	170	170
LIVE BASAL AREA (SQ. FT/A)	157.9	143.2	155.8	128.8	142.8	118.1
LIVE TOTAL VOLUME (CU. FT/A)	4309	3746	4050	3335	3818	2958
CROWN COMPETITION FACTOR	173	160	168	141	149	127
RELATIVE DENSITY INDEX	46.6	41.8	45.6	38.1	40.5	35.2
MEAN DIAMETER (IN)	11.5	11.8	11.7	11.5	12.4	11.3
SITE HEIGHT (FEET)	82.0	77.2	75.1	79.6	79.1	70.5
AVERAGE CROWN RATIO (%)	56	58	50	53	53	51
AVERAGE CROWN LENGTH (FT)	39.2	38.7	33.8	34.3	35.2	32.1
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	0	0	0

6 YEARS AFTER TREATMENT (1988)

LIVE TREES PER ACRE	220	190	210	180	170	170
LIVE BASAL AREA (SQ. FT/A)	168.6	154.8	163.3	137.2	154.1	129.1
LIVE TOTAL VOLUME (CU. FT/A)	4686	4140	4485	3628	4216	3343
CROWN COMPETITION FACTOR	182	169	177	149	157	135
RELATIVE DENSITY INDEX	49.0	44.3	48.3	39.9	42.9	37.6
MEAN DIAMETER (IN)	11.8	12.2	12.1	11.8	12.9	11.8
SITE HEIGHT (FEET)	83.6	79.0	77.7	81.5	81.2	72.8
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	0	0	0

8 YEARS AFTER TREATMENT (1990)

LIVE TREES PER ACRE	220	190	210	180	170	170
LIVE BASAL AREA (SQ. FT/A)	176.5	163.2	177.1	145.7	165.4	137.1
LIVE TOTAL VOLUME (CU. FT/A)	5010	4465	4802	3915	4648	3646
CROWN COMPETITION FACTOR	188	175	183	155	165	142
RELATIVE DENSITY INDEX	50.7	46.1	50.2	41.8	45.3	39.3
MEAN DIAMETER (IN)	12.1	12.5	12.4	12.2	13.4	12.2
SITE HEIGHT (FEET)	85.1	81.4	79.1	83.3	83.7	74.7
AVERAGE CROWN RATIO (%)	55	55	58	58	57	53
AVERAGE CROWN LENGTH (FT)	40.4	39.2	41.2	39.9	40.7	35.7
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	1	3	0	0

PLOT SUMMARY REPORT

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INSTALLATION 249 KAISER BUTTE #2
 REGION: CENTRAL WASHINGTON OWNERSHIP: BOISE CASCADE
 LEGAL DESCRIPTION: T6N R15E SECTION 20 MERIDIAN: WILLAMETTE

PLOT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1982)	400#N	0#N	200#N	200#N	0#N	400#N
SECOND TREATMENT (1988)	N+K	N+K	N+K	NONE	NONE	NONE

MEASUREMENTAL CHARACTERISTICS:

AT TIME OF TREATMENT (1982)	STAND	AGE	=	77
LIVE TREES PER ACRE	140	150	200	220
LIVE BASAL AREA (SQ. FT/A)	150.5	171.2	201.1	163.2
LIVE TOTAL VOLUME (CU. FT/A)	4923	5721	6514	5213
CROWN COMPETITION FACTOR	144	167	196	177
RELATIVE DENSITY INDEX	40.2	45.0	54.6	47.3
MEAN DIAMETER (IN)	14.0	14.5	13.6	11.7
SITE HEIGHT (FEET)	98.2	100.3	104.2	90.9
SPECIES COMPOSITION (% OF BA)				
DOUGLAS-FIR	100.0	100.0	93.4	100.0
PONDEROSA PINE	0.0	0.0	6.6	0.0

2 YEARS AFTER TREATMENT (1984)

LIVE TREES PER ACRE	140	150	200	220	250	250
LIVE BASAL AREA (SQ. FT/A)	162.2	183.2	218.3	175.3	181.9	191.7
CROWN COMPETITION FACTOR	153	175	209	197	183	199
RELATIVE DENSITY INDEX	42.5	47.4	58.0	50.4	53.5	55.7
MEAN DIAMETER (IN)	14.6	15.0	14.1	12.1	11.5	11.9
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1986)

LIVE TREES PER ACRE	140	150	200	220	240	250
LIVE BASAL AREA (SQ. FT/A)	171.6	191.9	231.2	184.9	190.6	204.1
LIVE TOTAL VOLUME (CU. FT/A)	5790	6505	7732	6163	6625	6499
CROWN COMPETITION FACTOR	159	181	213	194	188	203
RELATIVE DENSITY INDEX	44.3	49.0	60.6	52.5	54.9	58.3
MEAN DIAMETER (IN)	15.0	15.3	14.6	12.4	12.1	12.2
SITE HEIGHT (FEET)	102.5	102.3	107.1	96.2	109.0	99.6
AVERAGE CROWN RATIO (%)	47	44	47	44	43	39
AVERAGE CROWN LENGTH (FT)	41.7	39.9	40.4	37.7	34.6	30.7
DEAD TREES PER ACRE	0	0	0	0	10	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.7	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	0	13	0

6 YEARS AFTER TREATMENT (1988)

LIVE TREES PER ACRE	140	150	200	220	240	240
LIVE BASAL AREA (SQ. FT/A)	180.0	201.5	242.8	194.4	200.8	215.8
LIVE TOTAL VOLUME (CU. FT/A)	6139	6910	8207	6573	7073	6990
CROWN COMPETITION FACTOR	165	188	227	202	196	215
RELATIVE DENSITY INDEX	45.9	50.9	62.9	54.5	57.0	60.2
MEAN DIAMETER (IN)	15.3	15.7	14.9	12.7	12.4	12.3
SITE HEIGHT (FEET)	104.1	103.8	108.3	98.1	110.9	101.2
DEAD TREES PER ACRE	0	0	0	0	10	10
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.7	1.1
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	0	13	21

8 YEARS AFTER TREATMENT (1990)

LIVE TREES PER ACRE	140	150	190	220	230	230
LIVE BASAL AREA (SQ. FT/A)	186.0	211.1	249.7	199.8	205.8	222.6
LIVE TOTAL VOLUME (CU. FT/A)	6402	7313	8631	6861	7384	7343
CROWN COMPETITION FACTOR	169	194	229	206	200	220
RELATIVE DENSITY INDEX	47.1	52.7	63.4	55.6	57.5	61.0
MEAN DIAMETER (IN)	15.6	16.1	15.5	12.9	12.8	13.3
SITE HEIGHT (FEET)	105.0	105.0	110.6	99.8	112.6	103.1
AVERAGE CROWN RATIO (%)	52	46	50	42	46	44
AVERAGE CROWN LENGTH (FT)	45.7	43.6	44.7	36.7	38.3	36.7
DEAD TREES PER ACRE	0	0	10	0	20	20
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	3.4	0.0	2.4	1.8
DEAD TOTAL VOLUME (CU. FT/A)	0	0	30	0	54	39

PLOT SUMMARY REPORT

INSTALLATION 250 QUARTZ CREEK #2
 REGION: NORTHERN IDAHO OWNERSHIP: POTLATCH
 LEGAL DESCRIPTION: T37N R5E SECTION 5 MERIDIAN: BOISE

PLOT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1982)	200#N	400#N	400#N	200#N	0#N	0#N
SECOND TREATMENT (1988)	200#N	NONE	N+K	N+K	N+K	NONE

MENSURATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1982)	STAND AGE = 33					
LIVE TREES PER ACRE	340	230	490	280	350	350
LIVE BASAL AREA (SQ. FT/A)	102.6	113.1	138.3	84.3	129.2	113.8
LIVE TOTAL VOLUME (CU. FT/A)	1926	2156	2640	1599	2773	2427
CROWN COMPETITION FACTOR	131	131	183	110	161	152
RELATIVE DENSITY INDEX	37.6	36.7	51.6	30.9	45.0	42.2
MEAN DIAMETER (IN)	7.4	9.5	7.2	7.4	8.2	7.9
SITE HEIGHT (FEET)	57.4	55.2	55.2	55.2	64.2	61.8
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	96.7	98.9	95.9	83.8	95.3	90.3
GRAND FIR	0.4	0.0	3.0	3.0	2.8	9.7
WESTERN REDCEDAR	2.9	0.0	1.2	10.1	0.0	0.0
WESTERN WHITE PINE	0.0	1.1	0.0	3.1	2.0	0.0

2 YEARS AFTER TREATMENT (1984)

LIVE TREES PER ACRE	340	230	490	270	350	350
LIVE BASAL AREA (SQ. FT/A)	126.4	140.2	167.0	100.1	146.8	135.5
CROWN COMPETITION FACTOR	157	157	213	125	179	171
RELATIVE DENSITY INDEX	44.0	43.1	59.4	34.9	49.6	46.7
MEAN DIAMETER (IN)	8.3	10.6	7.9	8.3	8.8	8.4
DEAD TREES PER ACRE	0	0	0	10	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.5	0.0	0.0

4 YEARS AFTER TREATMENT (1986)

LIVE TREES PER ACRE	340	210	490	270	330	350
LIVE BASAL AREA (SQ. FT/A)	146.0	160.7	191.0	115.2	161.6	149.8
LIVE TOTAL VOLUME (CU. FT/A)	3016	3473	4059	2446	3812	3360
CROWN COMPETITION FACTOR	179	173	237	142	193	187
RELATIVE DENSITY INDEX	49.0	46.7	65.7	38.7	52.5	50.3
MEAN DIAMETER (IN)	8.9	11.8	8.4	8.8	9.5	8.9
SITE HEIGHT (FEET)	64.2	64.5	62.9	62.0	72.0	67.7
AVERAGE CROWN RATIO (%)	67	74	57	69	60	68
AVERAGE CROWN LENGTH (FT)	33.2	39.5	28.6	33.6	33.5	35.2
DEAD TREES PER ACRE	0	20	0	10	20	0
DEAD BASAL AREA (SQ. FT/A)	0.0	3.4	0.0	0.5	2.1	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	44	0	4	26	0

6 YEARS AFTER TREATMENT (1988)

LIVE TREES PER ACRE	340	210	490	270	310	350
LIVE BASAL AREA (SQ. FT/A)	164.3	182.4	211.5	123.0	170.8	165.7
LIVE TOTAL VOLUME (CU. FT/A)	3510	4105	4703	2856	4175	3829
CROWN COMPETITION FACTOR	196	191	257	155	199	204
RELATIVE DENSITY INDEX	53.6	51.3	70.9	42.2	53.9	54.3
MEAN DIAMETER (IN)	9.4	12.6	8.9	9.4	10.0	9.3
SITE HEIGHT (FEET)	66.8	67.8	66.1	64.6	74.6	69.8
DEAD TREES PER ACRE	0	20	0	10	40	0
DEAD BASAL AREA (SQ. FT/A)	0.0	3.4	0.0	0.5	9.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	44	0	4	177	0

8 YEARS AFTER TREATMENT (1990)

LIVE TREES PER ACRE	340	210	480	260	300	350
LIVE BASAL AREA (SQ. FT/A)	187.6	202.7	232.2	143.4	187.2	179.7
LIVE TOTAL VOLUME (CU. FT/A)	4136	4734	5415	3331	4749	4287
CROWN COMPETITION FACTOR	219	206	274	168	217	217
RELATIVE DENSITY INDEX	59.2	55.6	75.7	45.2	57.2	57.7
MEAN DIAMETER (IN)	10.1	13.3	9.4	10.1	10.7	9.7
SITE HEIGHT (FEET)	69.4	71.1	69.4	65.0	77.7	72.2
AVERAGE CROWN RATIO (%)	52	58	45	52	45	52
AVERAGE CROWN LENGTH (FT)	27.9	35.2	25.0	29.4	29.1	29.4
DEAD TREES PER ACRE	0	20	10	20	50	0
DEAD BASAL AREA (SQ. FT/A)	0.0	3.4	0.7	3.6	11.6	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	44	13	51	241	0

PLOT SUMMARY REPORT

INSTALLATION 251 GAME CREEK
REGION: MONTANA

OWNERSHIP: CHAMPION

LEGAL DESCRIPTION: T13N R16W SECTION 30 MERIDIAN: PRINCIPAL

PLOT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1982)	200#N	0#N	400#N	200#N	0#N	400#N
SECOND TREATMENT (1988)	200#N	N+K	NONE	N+K	NONE	200#N

MEASUREMENTAL CHARACTERISTICS:

AT TIME OF TREATMENT (1982)	STAND AGE = 60					
LIVE TREES PER ACRE	320	300	260	470	400	610
LIVE BASAL AREA (SQ. FT/A)	116.1	132.7	138.9	174.2	165.3	178.7
LIVE TOTAL VOLUME (CU. FT/A)	2263	2804	3150	3947	3712	3849
CROWN COMPETITION FACTOR	143	153	157	210	194	229
RELATIVE DENSITY INDEX	40.7	44.2	44.2	60.7	56.0	66.0
MEAN DIAMETER (IN)	8.2	9.0	9.9	8.2	8.7	7.3
SITE HEIGHT (FEET)	56.5	62.8	63.9	71.4	66.2	61.1
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	99.4	92.9	92.5	87.2	87.3	95.6
WESTERN LARCH	0.6	0.0	3.9	11.1	4.4	4.4
LODGEPOLE PINE	0.0	0.0	0.0	1.6	6.5	0.0
PONDEROSA PINE	0.0	7.1	3.6	0.0	1.8	0.0

2 YEARS AFTER TREATMENT (1984)

LIVE TREES PER ACRE	320	300	260	470	400	610
LIVE BASAL AREA (SQ. FT/A)	119.8	137.0	145.0	182.0	169.9	184.7
CROWN COMPETITION FACTOR	148	157	162	217	198	236
RELATIVE DENSITY INDEX	41.6	45.3	45.6	62.7	57.2	67.7
MEAN DIAMETER (IN)	8.3	9.1	10.1	8.4	8.8	7.4
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1986)

LIVE TREES PER ACRE	320	300	260	470	400	610
LIVE BASAL AREA (SQ. FT/A)	122.8	140.9	143.6	188.2	174.5	190.1
LIVE TOTAL VOLUME (CU. FT/A)	2432	3099	3517	4446	4010	4215
CROWN COMPETITION FACTOR	151	161	165	222	203	241
RELATIVE DENSITY INDEX	42.4	46.2	46.7	64.3	58.3	69.1
MEAN DIAMETER (IN)	8.4	9.3	10.3	8.6	8.9	7.6
SITE HEIGHT (FEET)	58.8	64.9	67.1	74.9	67.7	63.2
AVERAGE CROWN RATIO (%)	48	51	48	39	41	35
AVERAGE CROWN LENGTH (FT)	23.7	26.8	27.1	22.7	22.5	18.4
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	0	0	0

6 YEARS AFTER TREATMENT (1988)

LIVE TREES PER ACRE	320	300	260	460	400	610
LIVE BASAL AREA (SQ. FT/A)	125.2	143.9	153.1	190.4	177.3	193.3
LIVE TOTAL VOLUME (CU. FT/A)	2578	3234	3669	4619	4143	4363
CROWN COMPETITION FACTOR	153	163	168	223	205	244
RELATIVE DENSITY INDEX	43.0	47.0	47.5	64.5	59.1	70.0
MEAN DIAMETER (IN)	8.5	9.4	10.4	8.7	9.0	7.6
SITE HEIGHT (FEET)	60.0	66.3	68.8	76.6	68.8	64.5
DEAD TREES PER ACRE	0	0	0	10	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	2.3	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	30	0	0

8 YEARS AFTER TREATMENT (1990)

LIVE TREES PER ACRE	320	300	260	460	400	600
LIVE BASAL AREA (SQ. FT/A)	130.1	150.9	158.9	198.5	183.1	198.3
LIVE TOTAL VOLUME (CU. FT/A)	2722	3469	3891	4924	4345	4545
CROWN COMPETITION FACTOR	158	170	173	230	211	248
RELATIVE DENSITY INDEX	44.3	48.7	48.8	66.5	60.5	71.1
MEAN DIAMETER (IN)	8.6	9.6	10.6	8.9	9.2	7.8
SITE HEIGHT (FEET)	60.9	68.3	70.7	78.9	71.2	65.8
AVERAGE CROWN RATIO (%)	44	49	49	39	39	32
AVERAGE CROWN LENGTH (FT)	22.0	27.4	29.2	23.7	22.3	17.5
DEAD TREES PER ACRE	0	0	0	10	0	10
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	2.3	0.0	1.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	30	0	19

PLOT SUMMARY REPORT

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INSTALLATION 252 BLACK CANYON RANCH
 REGION: MONTANA OWNERSHIP: CHAMPION
 LEGAL DESCRIPTION: T15N R13W SECTION 6 MERIDIAN: PRINCIPAL

PLOT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1982)	0#N	200#N	400#N	0#N	200#N	400#N
SECOND TREATMENT (1988)	NONE	N+K	NONE	N+K	200#N	200#N

MEASUREMENTAL CHARACTERISTICS:

AT TIME OF TREATMENT (1982)	STAND	AGE	=	89
LIVE TREES PER ACRE	420	440	290	430
LIVE BASAL AREA (SQ. FT/A)	150.8	123.9	121.4	154.2
LIVE TOTAL VOLUME (CU. FT/A)	3539	2291	2254	3264
CROWN COMPETITION FACTOR	174	160	149	188
RELATIVE DENSITY INDEX	52.9	46.2	41.0	54.2
MEAN DIAMETER (IN)	8.1	7.2	8.3	8.1
SITE HEIGHT (FEET)	63.4	51.6	52.1	66.4
SPECIES COMPOSITION (% OF BA)				
DOUGLAS-FIR	69.0	91.3	100.0	88.8
WESTERN LARCH	8.7	0.0	0.0	0.0
LOGSPOLE PINE	24.2	8.2	0.0	2.9
PONDEROSA PINE	0.0	2.5	0.0	8.3

2 YEARS AFTER TREATMENT (1984)

LIVE TREES PER ACRE	420	440	290	430	410	450
LIVE BASAL AREA (SQ. FT/A)	155.9	131.6	128.8	160.9	139.3	189.7
CROWN COMPETITION FACTOR	178	167	156	195	167	211
RELATIVE DENSITY INDEX	54.3	48.4	42.9	55.9	49.6	64.0
MEAN DIAMETER (IN)	8.3	7.4	9.0	8.3	7.9	8.8
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1986)

LIVE TREES PER ACRE	420	440	290	430	410	450
LIVE BASAL AREA (SQ. FT/A)	160.5	137.5	134.6	166.2	145.6	196.6
LIVE TOTAL VOLUME (CU. FT/A)	3901	2639	2607	3624	2795	5388
CROWN COMPETITION FACTOR	182	173	162	200	174	217
RELATIVE DENSITY INDEX	55.5	50.0	44.4	57.3	51.3	65.7
MEAN DIAMETER (IN)	8.4	7.6	9.2	8.4	8.1	8.9
SITE HEIGHT (FEET)	65.7	54.3	54.7	68.5	60.7	73.9
AVERAGE CROWN RATIO (%)	49	44	55	46	49	43
AVERAGE CROWN LENGTH (FT)	25.4	19.5	26.0	23.0	20.9	25.5
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	0	0	7

6 YEARS AFTER TREATMENT (1988)

LIVE TREES PER ACRE	420	440	290	430	410	450
LIVE BASAL AREA (SQ. FT/A)	162.7	141.1	138.8	170.3	149.4	201.5
LIVE TOTAL VOLUME (CU. FT/A)	4017	2762	2744	3788	2930	5634
CROWN COMPETITION FACTOR	184	177	165	203	178	221
RELATIVE DENSITY INDEX	56.0	51.0	45.3	58.3	52.3	66.9
MEAN DIAMETER (IN)	8.4	7.7	9.4	8.5	8.2	9.1
SITE HEIGHT (FEET)	66.7	55.6	55.9	70.1	62.1	75.6
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	0	0	8

8 YEARS AFTER TREATMENT (1990)

LIVE TREES PER ACRE	410	430	290	430	390	420
LIVE BASAL AREA (SQ. FT/A)	164.8	137.2	143.0	177.9	152.5	199.3
LIVE TOTAL VOLUME (CU. FT/A)	4103	2642	2900	4067	3074	5671
CROWN COMPETITION FACTOR	185	174	169	211	179	218
RELATIVE DENSITY INDEX	56.3	49.6	46.4	60.3	52.4	65.3
MEAN DIAMETER (IN)	8.6	7.6	9.5	8.7	8.5	9.3
SITE HEIGHT (FEET)	67.8	53.0	57.5	72.0	61.8	77.5
AVERAGE CROWN RATIO (%)	43	42	45	44	45	40
AVERAGE CROWN LENGTH (FT)	23.0	19.1	22.2	23.3	19.8	24.4
DEAD TREES PER ACRE	10	10	0	0	20	30
DEAD BASAL AREA (SQ. FT/A)	2.2	8.4	0.0	0.0	2.0	3.1
DEAD TOTAL VOLUME (CU. FT/A)	71	258	0	1	36	271

PLCT SUMMARY REPORT

INSTALLATION 253 ELK CREEK RESERVOIR
 REGION: NORTHERN IDAHO OWNERSHIP: IDL
 LEGAL DESCRIPTION: T40N R2E SECTION 36 MERIDIAN: BOISE

PLOT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1982)	0#N	200#N	400#N	200#N	400#N	0#N
SECOND TREATMENT (1988)	N+K	N+K	200#N	NONE	N+K	NONE

MENSURATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1982)

STAND AGE = 53

LIVE TREES PER ACRE	240	230	260	250	320	180
LIVE BASAL AREA (SQ.FT/A)	216.7	201.4	179.6	199.4	218.7	203.2
LIVE TOTAL VOLUME (CU.FT/A)	8080	7253	5631	6592	7229	7765
CROWN COMPETITION FACTOR	229	213	206	216	241	201
RELATIVE DENSITY INDEX	63.4	56.6	53.5	57.3	65.4	53.6
MEAN DIAMETER (IN)	12.9	12.7	11.3	12.1	11.2	14.4
SITE HEIGHT (FEET)	107.5	103.2	88.3	92.5	98.4	118.1
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	79.4	77.9	47.3	70.6	62.8	85.6
GRAND FIR	20.6	19.7	42.6	26.7	30.1	0.0
WESTERN RED CEDAR	0.0	2.4	10.1	2.7	7.2	12.5
WESTERN WHITE PINE	0.0	0.0	0.0	0.0	0.0	1.9

2 YEARS AFTER TREATMENT (1984)

LIVE TREES PER ACRE	240	230	260	250	320	180
LIVE BASAL AREA (SQ.FT/A)	228.6	214.1	194.1	211.5	234.7	213.4
CROWN COMPETITION FACTOR	237	224	219	226	257	208
RELATIVE DENSITY INDEX	62.9	59.2	56.7	59.9	68.9	55.6
MEAN DIAMETER (IN)	13.2	13.1	11.7	12.5	11.6	14.7
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ.FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1986)

LIVE TREES PER ACRE	240	230	260	250	300	180
LIVE BASAL AREA (SQ.FT/A)	237.8	224.4	207.5	223.2	240.6	223.7
LIVE TOTAL VOLUME (CU.FT/A)	9351	8600	7027	7803	8534	8821
CROWN COMPETITION FACTOR	244	234	231	236	256	216
RELATIVE DENSITY INDEX	64.8	61.4	59.7	62.4	69.1	57.6
MEAN DIAMETER (IN)	13.5	13.4	12.1	12.8	12.1	15.1
SITE HEIGHT (FEET)	113.3	109.9	93.9	97.7	103.9	122.0
AVERAGE CROWN RATIO (%)	38	45	52	49	53	46
AVERAGE CROWN LENGTH (FT)	38.4	43.8	40.9	41.4	42.4	47.1
DEAD TREES PER ACRE	0	0	0	0	20	0
DEAD BASAL AREA (SQ.FT/A)	0.0	0.0	0.0	0.0	9.9	0.0
DEAD TOTAL VOLUME (CU.FT/A)	0	0	0	0	285	0

6 YEARS AFTER TREATMENT (1988)

LIVE TREES PER ACRE	230	230	260	250	300	170
LIVE BASAL AREA (SQ.FT/A)	247.7	235.4	221.5	232.8	255.2	225.7
LIVE TOTAL VOLUME (CU.FT/A)	10067	9288	7735	8344	9308	9101
CROWN COMPETITION FACTOR	249	243	241	244	271	215
RELATIVE DENSITY INDEX	66.1	63.6	62.6	64.4	72.2	57.1
MEAN DIAMETER (IN)	14.0	13.7	12.5	13.1	12.5	15.6
SITE HEIGHT (FEET)	116.3	113.2	97.1	100.7	106.8	124.3
DEAD TREES PER ACRE	10	0	0	0	20	10
DEAD BASAL AREA (SQ.FT/A)	1.4	0.0	0.0	0.0	9.9	5.3
DEAD TOTAL VOLUME (CU.FT/A)	33	0	0	0	285	178

8 YEARS AFTER TREATMENT (1990)

LIVE TREES PER ACRE	230	230	253	250	300	170
LIVE BASAL AREA (SQ.FT/A)	258.5	245.3	229.2	241.6	270.6	233.4
LIVE TOTAL VOLUME (CU.FT/A)	10800	9903	8226	8878	10210	9648
CROWN COMPETITION FACTOR	257	251	247	251	267	221
RELATIVE DENSITY INDEX	68.2	65.6	63.9	66.2	75.5	58.6
MEAN DIAMETER (IN)	14.3	14.0	12.9	13.3	12.9	15.9
SITE HEIGHT (FEET)	119.8	115.6	100.1	103.5	110.5	128.0
AVERAGE CROWN RATIO (%)	32	36	46	39	46	39
AVERAGE CROWN LENGTH (FT)	34.6	35.9	38.8	34.0	39.5	42.7
DEAD TREES PER ACRE	10	0	7	0	20	10
DEAD BASAL AREA (SQ.FT/A)	1.4	0.0	5.6	0.0	9.9	5.3
DEAD TOTAL VOLUME (CU.FT/A)	33	0	207	0	286	178

PLOT SUMMARY REPORT

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INSTALLATION 254 CRANBERRY CREEK
 REGION: NORTHERN IDAHO OWNERSHIP: IDL
 LEGAL DESCRIPTION: T38N R2E SECTION 12 MERIDIAN: BOISE

PLOT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1982)	200#N	400#N	0#N	0#N	200#N	400#N
SECOND TREATMENT (1988)	200#N	N+K	NONE	N+K	NONE	200#N

MEASUREMENTAL CHARACTERISTICS:

AT TIME OF TREATMENT (1982)	STAND	AGE =	27			
LIVE TREES PER ACRE	610	330	600	360	360	450
LIVE BASAL AREA (SQ.FT/A)	109.6	82.3	89.3	75.3	102.3	94.4
LIVE TOTAL VOLUME (CU.FT/A)	2044	1450	1521	1283	1891	1559
CROWN COMPETITION FACTOR	165	110	135	104	132	131
RELATIVE DENSITY INDEX	45.7	32.8	39.1	30.3	38.1	37.9
MEAN DIAMETER (IN)	5.7	6.3	5.2	6.2	7.2	6.2
SITE HEIGHT (FEET)	52.4	48.7	45.0	46.1	53.1	46.1
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	71.9	59.0	75.0	93.3	73.4	59.6
GRAND FIR	28.1	17.3	18.5	4.0	11.2	15.8
WESTERN REDCEDAR	0.0	16.4	4.3	1.1	12.1	22.4
WESTERN LARCH	0.0	7.3	2.2	1.5	3.2	2.1

2 YEARS AFTER TREATMENT (1984)

LIVE TREES PER ACRE	610	380	600	360	360	440
LIVE BASAL AREA (SQ.FT/A)	135.6	103.8	107.2	91.5	124.4	115.2
CROWN COMPETITION FACTOR	196	134	157	121	156	155
RELATIVE DENSITY INDEX	53.7	39.0	44.8	35.0	44.1	43.8
MEAN DIAMETER (IN)	6.4	7.1	5.7	6.8	8.0	6.9
DEAD TREES PER ACRE	0	0	0	0	0	10
DEAD BASAL AREA (SQ.FT/A)	0.0	0.0	0.0	0.0	0.0	3.0

4 YEARS AFTER TREATMENT (1986)

LIVE TREES PER ACRE	610	380	600	360	360	440
LIVE BASAL AREA (SQ.FT/A)	155.4	123.3	121.3	105.0	143.2	138.4
LIVE TOTAL VOLUME (CU.FT/A)	3344	2482	2344	2002	3010	2591
CROWN COMPETITION FACTOR	220	161	173	136	179	184
RELATIVE DENSITY INDEX	59.4	44.4	49.2	38.8	49.0	50.2
MEAN DIAMETER (IN)	6.8	7.7	6.1	7.3	8.5	7.6
SITE HEIGHT (FEET)	61.6	54.4	51.4	52.8	61.4	51.1
AVERAGE CROWN RATIO (%)	62	71	57	65	77	71
AVERAGE CROWN LENGTH (FT)	30.4	33.4	24.6	28.7	37.5	30.5
DEAD TREES PER ACRE	0	0	0	0	0	10
DEAD BASAL AREA (SQ.FT/A)	0.0	0.0	0.0	0.0	0.0	3.0
DEAD TOTAL VOLUME (CU.FT/A)	0	0	0	0	0	46

6 YEARS AFTER TREATMENT (1988)

LIVE TREES PER ACRE	600	380	600	360	350	430
LIVE BASAL AREA (SQ.FT/A)	167.7	141.6	135.8	118.5	158.2	158.0
LIVE TOTAL VOLUME (CU.FT/A)	3780	3011	2747	2368	3489	3126
CROWN COMPETITION FACTOR	235	181	191	150	196	205
RELATIVE DENSITY INDEX	62.7	49.3	53.5	42.5	52.4	55.1
MEAN DIAMETER (IN)	7.2	8.3	6.4	7.8	9.1	8.2
SITE HEIGHT (FEET)	64.3	58.0	54.2	55.9	65.4	54.5
DEAD TREES PER ACRE	10	0	0	0	10	20
DEAD BASAL AREA (SQ.FT/A)	3.4	0.0	0.0	0.0	0.4	4.2
DEAD TOTAL VOLUME (CU.FT/A)	73	0	0	0	6	65

8 YEARS AFTER TREATMENT (1990)

LIVE TREES PER ACRE	600	380	600	360	350	420
LIVE BASAL AREA (SQ.FT/A)	186.9	161.9	149.6	134.1	173.5	178.6
LIVE TOTAL VOLUME (CU.FT/A)	4496	3646	3193	2824	4009	3774
CROWN COMPETITION FACTOR	256	204	207	167	209	228
RELATIVE DENSITY INDEX	68.0	54.5	57.5	46.7	56.2	60.1
MEAN DIAMETER (IN)	7.6	8.8	6.8	8.3	9.5	8.8
SITE HEIGHT (FEET)	69.3	61.6	57.8	59.1	67.7	57.8
AVERAGE CROWN RATIO (%)	48	61	44	51	63	61
AVERAGE CROWN LENGTH (FT)	26.0	32.5	21.1	25.6	34.5	30.7
DEAD TREES PER ACRE	10	0	0	0	10	30
DEAD BASAL AREA (SQ.FT/A)	3.4	0.0	0.0	0.0	0.4	4.8
DEAD TOTAL VOLUME (CU.FT/A)	73	0	0	0	6	72

PLOT SUMMARY REPORT

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INSTALLATION 255 BIRCH CREEK

REGION: NORTHERN IDAHO

OWNERSHIP: INLAND EMPIRE

LEGAL DESCRIPTION: T53N R5W SECTION 2 MERIDIAN: BOISE

PLOT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1982)	0#N	200#N	400#N	0#N	200#N	400#N
SECOND TREATMENT (1988)	N+K	200#N	200#N	NONE	NONE	NONE

MENSURATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1982)	STAND AGE = 34					
LIVE TREES PER ACRE	790	810	670	660	680	600
LIVE BASAL AREA (SQ. FT/A)	179.5	192.9	175.0	189.8	156.0	168.4
LIVE TOTAL VOLUME (CU. FT/A)	3490	3809	3713	4061	3198	3470
CROWN COMPETITION FACTOR	234	258	227	245	202	207
RELATIVE DENSITY INDEX	70.7	75.0	66.5	70.4	61.3	62.9
MEAN DIAMETER (IN)	6.4	6.6	6.9	7.3	6.5	7.2
SITE HEIGHT (FEET)	53.0	54.0	56.7	58.7	56.0	66.0
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	87.2	95.0	90.0	92.2	88.3	78.9
GRAND FIR	0.0	3.0	3.8	3.5	0.7	5.0
WESTERN LARCH	0.0	2.0	6.2	0.4	8.9	13.1
LODGPOLE PINE	0.0	0.0	0.0	0.0	1.6	3.0
PONDEROSA PINE	12.8	0.0	0.0	3.8	0.0	0.0

2 YEARS AFTER TREATMENT (1984)

LIVE TREES PER ACRE	790	810	660	660	670	600
LIVE BASAL AREA (SQ. FT/A)	197.8	213.2	194.6	207.7	173.1	186.8
CROWN COMPETITION FACTOR	252	282	246	261	222	225
RELATIVE DENSITY INDEX	76.0	80.9	71.8	75.4	66.0	67.9
MEAN DIAMETER (IN)	6.8	6.9	7.3	7.6	6.9	7.5
DEAD TREES PER ACRE	0	0	10	0	10	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	1.0	0.0	2.6	0.0

4 YEARS AFTER TREATMENT (1986)

LIVE TREES PER ACRE	760	750	620	590	560	570
LIVE BASAL AREA (SQ. FT/A)	209.6	222.0	207.2	213.0	168.3	202.4
LIVE TOTAL VOLUME (CU. FT/A)	4459	4769	4812	4987	3780	4583
CROWN COMPETITION FACTOR	263	287	258	261	210	240
RELATIVE DENSITY INDEX	78.6	81.8	74.1	74.7	61.3	71.3
MEAN DIAMETER (IN)	7.1	7.4	7.8	8.1	7.4	8.1
SITE HEIGHT (FEET)	59.0	61.2	63.7	64.7	63.1	70.7
AVERAGE CROWN RATIO (%)	43	42	40	39	39	43
AVERAGE CROWN LENGTH (FT)	20.6	21.0	22.3	21.5	20.2	22.4
DEAD TREES PER ACRE	30	60	50	70	120	30
DEAD BASAL AREA (SQ. FT/A)	5.6	9.9	6.6	12.9	24.0	2.5
DEAD TOTAL VOLUME (CU. FT/A)	112	198	131	255	470	44

6 YEARS AFTER TREATMENT (1988)

LIVE TREES PER ACRE	730	700	590	550	500	560
LIVE BASAL AREA (SQ. FT/A)	222.3	224.8	220.1	220.3	170.8	213.4
LIVE TOTAL VOLUME (CU. FT/A)	4884	5009	5317	5381	4000	5025
CROWN COMPETITION FACTOR	274	287	274	264	209	251
RELATIVE DENSITY INDEX	81.3	81.2	76.5	75.3	60.7	73.8
MEAN DIAMETER (IN)	7.5	7.7	8.3	8.6	7.9	8.4
SITE HEIGHT (FEET)	60.8	64.4	65.9	67.9	65.9	73.5
DEAD TREES PER ACRE	60	110	80	110	180	40
DEAD BASAL AREA (SQ. FT/A)	7.5	19.9	9.6	21.7	35.2	3.9
DEAD TOTAL VOLUME (CU. FT/A)	145	407	186	454	698	59

8 YEARS AFTER TREATMENT (1990)

LIVE TREES PER ACRE	710	700	560	530	470	550
LIVE BASAL AREA (SQ. FT/A)	240.0	244.6	235.0	236.9	184.4	228.2
LIVE TOTAL VOLUME (CU. FT/A)	5449	5607	5920	5972	4497	5556
CROWN COMPETITION FACTOR	288	308	290	280	219	263
RELATIVE DENSITY INDEX	85.5	86.5	79.4	78.8	63.3	77.3
MEAN DIAMETER (IN)	7.9	8.0	8.8	9.0	8.5	8.7
SITE HEIGHT (FEET)	63.4	64.5	68.2	69.3	68.8	76.9
AVERAGE CROWN RATIO (%)	39	37	39	36	37	38
AVERAGE CROWN LENGTH (FT)	20.5	20.3	23.6	22.0	22.1	21.9
DEAD TREES PER ACRE	80	110	110	130	210	50
DEAD BASAL AREA (SQ. FT/A)	9.0	19.9	15.5	22.9	37.7	4.4
DEAD TOTAL VOLUME (CU. FT/A)	168	407	304	473	737	69

PLOT SUMMARY REPORT

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INSTALLATION 256 SLY MEADOWS
 REGION: NORTHERN IDAHO OWNERSHIP: INLAND EMPIRE
 LEGAL DESCRIPTION: T46N R1E SECTION 31 MERIDIAN: BOISE

PLOT NUMBER

	1	2	3	4	5	6
INITIAL TREATMENT (1982)	0#N	200#N	400#N	0#N	400#N	200#N
SECOND TREATMENT (1988)	N+K	N+K	N+K	NONE	NONE	200#N

MEASUREMENTAL CHARACTERISTICS:

AT TIME OF TREATMENT (1982)

STAND AGE = 36

LIVE TREES PER ACRE	600	540	600	520	700	450
LIVE BASAL AREA (SQ. FT/A)	184.0	161.6	180.7	138.2	186.3	139.5
LIVE TOTAL VOLUME (CU. FT/A)	4271	3989	4372	4936	4573	3554
CROWN COMPETITION FACTOR	229	209	241	224	231	173
RELATIVE DENSITY INDEX	67.2	59.4	66.3	65.9	70.7	50.8
MEAN DIAMETER (IN)	7.5	7.4	7.4	8.1	7.0	7.5
SITE HEIGHT (FEET)	70.4	70.5	71.3	82.1	76.2	69.3
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	64.2	54.4	58.3	70.3	68.3	44.8
GRAND FIR	18.5	29.3	24.9	21.9	8.9	24.0
WESTERN RED CEDAR	0.0	0.0	12.6	0.0	0.0	0.0
WESTERN LARCH	6.4	12.6	4.2	7.2	2.4	0.0
LOGSPOLE PINE	10.9	3.7	0.0	0.5	20.0	31.1

2 YEARS AFTER TREATMENT (1984)

LIVE TREES PER ACRE	600	530	580	520	700	440
LIVE BASAL AREA (SQ. FT/A)	199.2	175.0	200.7	200.7	199.2	152.1
CROWN COMPETITION FACTOR	245	223	260	235	244	187
RELATIVE DENSITY INDEX	71.3	62.7	71.1	69.2	74.1	53.9
MEAN DIAMETER (IN)	7.8	7.8	8.0	8.4	7.2	8.0
DEAD TREES PER ACRE	0	10	20	0	0	10
DEAD BASAL AREA (SQ. FT/A)	0.0	0.4	1.1	0.0	0.0	3.2

4 YEARS AFTER TREATMENT (1986)

LIVE TREES PER ACRE	540	440	490	510	480	380
LIVE BASAL AREA (SQ. FT/A)	208.2	171.7	210.2	212.5	165.6	160.4
LIVE TOTAL VOLUME (CU. FT/A)	5353	4807	5712	6014	4516	4520
CROWN COMPETITION FACTOR	250	212	263	245	195	192
RELATIVE DENSITY INDEX	71.8	59.0	70.6	71.9	53.7	54.1
MEAN DIAMETER (IN)	3.4	8.5	8.9	8.7	7.9	3.8
SITE HEIGHT (FEET)	77.6	79.5	79.2	88.8	82.1	73.3
AVERAGE CROWN RATIO (%)	41	43	40	39	41	55
AVERAGE CROWN LENGTH (FT)	22.1	25.2	23.4	22.5	21.0	28.3
DEAD TREES PER ACRE	60	100	110	10	220	70
DEAD BASAL AREA (SQ. FT/A)	4.3	14.6	10.0	0.5	43.3	8.3
DEAD TOTAL VOLUME (CU. FT/A)	69	284	175	6	909	150

6 YEARS AFTER TREATMENT (1988)

LIVE TREES PER ACRE	520	440	460	500	460	360
LIVE BASAL AREA (SQ. FT/A)	223.1	184.6	226.3	225.5	173.3	173.2
LIVE TOTAL VOLUME (CU. FT/A)	5990	5390	6447	6599	4898	5104
CROWN COMPETITION FACTOR	262	223	276	256	199	202
RELATIVE DENSITY INDEX	74.9	62.3	73.4	74.8	60.2	56.5
MEAN DIAMETER (IN)	8.9	8.8	9.5	9.1	8.3	9.4
SITE HEIGHT (FEET)	80.4	82.9	81.9	92.0	84.8	76.3
DEAD TREES PER ACRE	30	100	140	20	240	90
DEAD BASAL AREA (SQ. FT/A)	5.6	14.6	13.0	1.5	47.0	10.0
DEAD TOTAL VOLUME (CU. FT/A)	91	284	222	35	992	180

8 YEARS AFTER TREATMENT (1990)

LIVE TREES PER ACRE	510	400	450	470	450	360
LIVE BASAL AREA (SQ. FT/A)	237.5	193.3	244.0	233.6	190.7	188.0
LIVE TOTAL VOLUME (CU. FT/A)	6664	5923	7312	7082	5568	5793
CROWN COMPETITION FACTOR	274	228	292	260	215	218
RELATIVE DENSITY INDEX	78.1	63.0	77.3	75.6	64.2	60.1
MEAN DIAMETER (IN)	9.2	9.4	10.0	9.5	8.8	9.8
SITE HEIGHT (FEET)	83.8	86.6	86.2	95.2	87.5	79.0
AVERAGE CROWN RATIO (%)	33	38	37	34	37	44
AVERAGE CROWN LENGTH (FT)	19.3	26.2	25.6	20.8	21.3	26.8
DEAD TREES PER ACRE	30	140	150	50	250	90
DEAD BASAL AREA (SQ. FT/A)	7.5	17.6	13.7	5.2	40.8	10.0
DEAD TOTAL VOLUME (CU. FT/A)	126	342	227	111	814	177

PLOT SUMMARY REPORT

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INSTALLATION 257 LITTLE CATHERINE CR
 REGION: NORTHEAST OREGON OWNERSHIP: BOISE CASCADE
 LEGAL DESCRIPTION: T4S R41E SECTION 28 MERIDIAN: WILLAMETTE

PLOT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1982)	200#N	0#N	400#N	200#N	400#N	0#N
SECOND TREATMENT (1988)	200#N	N+K	NONE	N+K	200#N	NONE

MEASUREMENTAL CHARACTERISTICS:

AT TIME OF TREATMENT (1982)	STAND AGE = 87					
LIVE TREES PER ACRE	190	170	150	110	210	93
LIVE BASAL AREA (SQ. FT/A)	197.4	196.4	164.9	203.8	187.8	108.6
LIVE TOTAL VOLUME (CU. FT/A)	5183	5730	4580	5975	5140	2753
CROWN COMPETITION FACTOR	189	185	162	172	171	99
RELATIVE DENSITY INDEX	53.1	51.5	43.8	47.5	52.5	28.4
MEAN DIAMETER (IN)	13.8	14.6	14.2	18.4	12.8	14.6
SITE HEIGHT (FEET)	76.7	86.4	81.7	89.0	89.1	74.0
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	89.2	100.0	100.0	83.5	85.1	93.4
GRAND FIR	8.7	0.0	0.0	0.0	0.0	0.0
PONDEROSA PINE	2.2	0.0	0.0	10.5	14.9	6.6

2 YEARS AFTER TREATMENT (1984)

LIVE TREES PER ACRE	190	170	150	110	210	93
LIVE BASAL AREA (SQ. FT/A)	210.8	207.1	177.3	215.7	200.5	115.9
CROWN COMPETITION FACTOR	199	192	171	180	181	104
RELATIVE DENSITY INDEX	55.8	53.6	46.2	49.5	55.1	29.8
MEAN DIAMETER (IN)	14.3	14.9	14.7	19.0	13.2	15.1
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1986)

LIVE TREES PER ACRE	190	170	150	110	210	93
LIVE BASAL AREA (SQ. FT/A)	217.4	214.1	183.8	222.3	207.2	120.8
LIVE TOTAL VOLUME (CU. FT/A)	5855	6369	5100	6584	5650	3070
CROWN COMPETITION FACTOR	204	197	175	184	185	108
RELATIVE DENSITY INDEX	57.1	54.9	47.5	50.7	56.5	30.8
MEAN DIAMETER (IN)	14.5	15.2	15.0	19.3	13.4	15.4
SITE HEIGHT (FEET)	79.1	88.4	82.7	91.3	89.6	74.3
AVERAGE CROWN RATIO (%)	54	66	61	72	56	74
AVERAGE CROWN LENGTH (FT)	36.9	48.8	45.1	57.0	34.0	47.1
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	4	1	5	0	3	0

6 YEARS AFTER TREATMENT (1988)

LIVE TREES PER ACRE	180	170	150	100	210	93
LIVE BASAL AREA (SQ. FT/A)	214.5	218.0	186.0	194.4	210.8	123.0
LIVE TOTAL VOLUME (CU. FT/A)	5800	6485	5158	5708	5745	3138
CROWN COMPETITION FACTOR	199	200	177	162	188	109
RELATIVE DENSITY INDEX	55.8	55.7	47.9	44.7	57.2	31.2
MEAN DIAMETER (IN)	14.8	15.3	15.1	18.9	13.6	15.5
SITE HEIGHT (FEET)	79.4	88.4	82.7	89.1	89.7	74.8
DEAD TREES PER ACRE	10	0	0	10	0	0
DEAD BASAL AREA (SQ. FT/A)	7.9	0.0	0.0	31.2	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	208	1	5	1006	3	0

8 YEARS AFTER TREATMENT (1990)

LIVE TREES PER ACRE	150	170	150	100	210	87
LIVE BASAL AREA (SQ. FT/A)	213.7	221.8	190.0	200.1	216.0	124.2
LIVE TOTAL VOLUME (CU. FT/A)	5917	6691	5304	5921	5941	3219
CROWN COMPETITION FACTOR	194	202	179	166	192	109
RELATIVE DENSITY INDEX	53.2	56.4	48.7	45.7	58.3	30.8
MEAN DIAMETER (IN)	16.2	15.5	15.2	19.2	13.7	16.2
SITE HEIGHT (FEET)	80.4	90.1	83.8	86.7	90.4	75.4
AVERAGE CROWN RATIO (%)	58	63	60	66	54	64
AVERAGE CROWN LENGTH (FT)	41.8	46.8	45.0	51.0	33.7	42.4
DEAD TREES PER ACRE	40	0	0	10	0	7
DEAD BASAL AREA (SQ. FT/A)	15.3	0.0	0.0	31.2	0.0	1.8
DEAD TOTAL VOLUME (CU. FT/A)	330	1	4	1006	1	31

PLOT SUMMARY REPORT

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INSTALLATION 258 RCNDOWA
 REGION: NORTHEAST OREGON OWNERSHIP: BOISE CASCADE
 LEGAL DESCRIPTION: T3N R40E SECTION 23 MERIDIAN: WILLAMETTE

PLOT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1982)	400#N	0#N	200#N	400#N	0#N	200#N
SECOND TREATMENT (1988)	200#N	NONE	NONE	N+K	N+K	N+K

MEASUREMENTAL CHARACTERISTICS:

AT TIME OF TREATMENT (1982)	STAND AGE = 72					
LIVE TREES PER ACRE	170	120	140	210	240	250
LIVE BASAL AREA (SQ. FT/A)	174.0	149.0	172.0	230.1	177.6	188.5
LIVE TOTAL VOLUME (CU. FT/A)	5644	4791	5964	8350	5548	5987
CROWN COMPETITION FACTOR	168	142	163	221	181	191
RELATIVE DENSITY INDEX	47.0	38.3	44.4	61.1	52.0	55.0
MEAN DIAMETER (IN)	13.7	15.1	15.0	14.2	11.6	11.8
SITE HEIGHT (FEET)	98.9	92.3	103.7	104.9	88.3	95.8
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	97.6	96.3	97.7	83.2	79.0	84.3
GRAND FIR	0.0	0.0	2.3	2.0	3.7	7.0
WESTERN LARCH	0.0	3.7	0.0	14.8	6.9	6.1
PONDEROSA PINE	2.4	0.0	0.0	0.0	10.4	2.6

2 YEARS AFTER TREATMENT (1984)

LIVE TREES PER ACRE	160	120	140	210	230	240
LIVE BASAL AREA (SQ. FT/A)	171.4	155.4	182.1	241.3	184.2	184.7
CROWN COMPETITION FACTOR	163	146	170	229	188	184
RELATIVE DENSITY INDEX	45.8	39.6	46.3	63.3	52.9	53.6
MEAN DIAMETER (IN)	14.0	15.4	15.4	14.5	12.1	11.9
DEAD TREES PER ACRE	10	0	0	0	10	10
DEAD BASAL AREA (SQ. FT/A)	12.0	0.0	0.0	0.0	2.6	11.9

4 YEARS AFTER TREATMENT (1986)

LIVE TREES PER ACRE	160	120	140	210	220	240
LIVE BASAL AREA (SQ. FT/A)	180.4	162.2	192.0	251.3	188.0	193.3
LIVE TOTAL VOLUME (CU. FT/A)	6078	5295	6842	9308	6083	6243
CROWN COMPETITION FACTOR	159	151	177	235	189	190
RELATIVE DENSITY INDEX	47.6	40.9	48.2	65.3	53.1	55.5
MEAN DIAMETER (IN)	14.4	15.7	15.9	14.8	12.5	12.1
SITE HEIGHT (FEET)	102.7	93.6	107.1	107.4	91.5	99.0
AVERAGE CROWN RATIO (%)	45	39	47	37	43	35
AVERAGE CROWN LENGTH (FT)	38.9	35.2	43.3	37.1	35.2	28.0
DEAD TREES PER ACRE	10	0	0	0	20	10
DEAD BASAL AREA (SQ. FT/A)	12.0	0.0	0.0	0.0	8.3	11.9
DEAD TOTAL VOLUME (CU. FT/A)	363	0	0	0	234	475

6 YEARS AFTER TREATMENT (1988)

LIVE TREES PER ACRE	160	120	140	210	210	200
LIVE BASAL AREA (SQ. FT/A)	137.1	167.7	200.5	258.3	185.6	180.5
LIVE TOTAL VOLUME (CU. FT/A)	6386	5531	7249	9671	6105	5983
CROWN COMPETITION FACTOR	174	154	183	239	184	174
RELATIVE DENSITY INDEX	48.9	41.9	49.8	66.7	52.0	50.3
MEAN DIAMETER (IN)	14.6	16.0	16.2	15.0	12.7	12.9
SITE HEIGHT (FEET)	104.0	94.6	109.1	108.4	93.2	101.4
DEAD TREES PER ACRE	10	0	0	0	30	50
DEAD BASAL AREA (SQ. FT/A)	12.0	0.0	0.0	0.0	15.9	30.0
DEAD TOTAL VOLUME (CU. FT/A)	363	0	0	0	491	974

8 YEARS AFTER TREATMENT (1990)

LIVE TREES PER ACRE	140	100	140	200	210	180
LIVE BASAL AREA (SQ. FT/A)	185.6	142.4	208.1	260.1	190.8	165.3
LIVE TOTAL VOLUME (CU. FT/A)	6470	4753	7604	9905	6366	3542
CROWN COMPETITION FACTOR	170	130	187	239	188	160
RELATIVE DENSITY INDEX	47.0	35.4	51.2	66.2	53.1	45.9
MEAN DIAMETER (IN)	15.6	16.2	16.5	15.4	12.9	13.0
SITE HEIGHT (FEET)	101.9	96.9	110.3	110.1	94.7	103.0
AVERAGE CROWN RATIO (%)	46	46	49	39	40	35
AVERAGE CROWN LENGTH (FT)	42.3	42.8	47.2	39.9	35.2	29.7
DEAD TREES PER ACRE	30	20	0	10	30	70
DEAD BASAL AREA (SQ. FT/A)	20.3	29.2	0.0	4.0	15.9	48.7
DEAD TOTAL VOLUME (CU. FT/A)	576	958	0	126	491	1606

PLOT SUMMARY REPORT

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INSTALLATION 259 RAILROAD CANYON
 REGION: CENTRAL WASHINGTON OWNERSHIP: LONGVIEW FIBER
 LEGAL DESCRIPTION: T25N R18E SECTION 2 MERIDIAN: WILLAMETTE

PLOT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1982)	400#N	200#N	0#N	200#N	400#N	0#N
SECOND TREATMENT (1988)	N+K	N+K	N+K	NONE	200#N	NONE

MEASUREMENTAL CHARACTERISTICS:

AT TIME OF TREATMENT (1982)	STAND AGE = 71					
LIVE TREES PER ACRE	300	350	300	390	390	330
LIVE BASAL AREA (SQ. FT/A)	246.6	160.8	139.2	191.1	223.3	177.7
LIVE TOTAL VOLUME (CU. FT/A)	7356	4101	3290	5052	6886	4773
CROWN COMPETITION FACTOR	259	194	165	223	258	208
RELATIVE DENSITY INDEX	70.4	53.1	45.8	62.1	69.8	56.4
MEAN DIAMETER (IN)	12.3	9.2	9.2	9.5	10.3	9.9
SITE HEIGHT (FEET)	86.4	73.0	70.0	78.9	93.1	81.6
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	100.0	100.0	99.1	98.7	100.0	100.0
PONDEROSA PINE	0.0	0.0	0.9	1.3	0.0	0.0

2 YEARS AFTER TREATMENT (1984)

LIVE TREES PER ACRE	300	350	300	390	390	330
LIVE BASAL AREA (SQ. FT/A)	260.3	171.7	143.9	200.5	237.0	186.6
CROWN COMPETITION FACTOR	269	205	169	231	269	217
RELATIVE DENSITY INDEX	73.3	55.7	47.0	64.3	73.0	58.5
MEAN DIAMETER (IN)	12.6	9.5	9.4	9.7	10.6	10.2
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1986)

LIVE TREES PER ACRE	300	350	300	390	390	330
LIVE BASAL AREA (SQ. FT/A)	266.1	177.3	147.5	206.3	243.7	190.5
LIVE TOTAL VOLUME (CU. FT/A)	8162	4658	3530	5602	7744	5245
CROWN COMPETITION FACTOR	274	210	175	236	274	220
RELATIVE DENSITY INDEX	74.5	57.1	47.9	65.8	74.5	59.4
MEAN DIAMETER (IN)	12.8	9.6	9.5	9.8	10.7	10.3
SITE HEIGHT (FEET)	89.5	76.0	71.2	81.5	96.6	84.4
AVERAGE CROWN RATIO (%)	41	37	42	33	30	39
AVERAGE CROWN LENGTH (FT)	32.0	24.6	24.4	21.8	23.9	27.0
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	0	0	0

6 YEARS AFTER TREATMENT (1988)

LIVE TREES PER ACRE	300	350	300	390	390	330
LIVE BASAL AREA (SQ. FT/A)	272.2	182.7	150.9	212.4	250.1	195.2
LIVE TOTAL VOLUME (CU. FT/A)	8437	4860	3657	5842	8072	5467
CROWN COMPETITION FACTOR	279	216	177	241	279	226
RELATIVE DENSITY INDEX	75.8	58.4	48.7	67.2	75.9	60.5
MEAN DIAMETER (IN)	12.9	9.8	9.6	10.0	10.3	10.4
SITE HEIGHT (FEET)	91.0	77.0	72.4	82.7	98.3	85.6
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	1	0	0

8 YEARS AFTER TREATMENT (1990)

LIVE TREES PER ACRE	300	350	300	390	380	330
LIVE BASAL AREA (SQ. FT/A)	276.6	187.9	155.8	218.6	254.7	200.5
LIVE TOTAL VOLUME (CU. FT/A)	8617	5025	3804	6061	8308	5673
CROWN COMPETITION FACTOR	282	222	182	249	281	231
RELATIVE DENSITY INDEX	76.7	59.6	49.9	68.7	76.5	61.7
MEAN DIAMETER (IN)	13.0	9.9	9.8	10.1	11.1	10.5
SITE HEIGHT (FEET)	91.7	77.9	73.5	83.3	99.7	86.6
AVERAGE CROWN RATIO (%)	43	37	47	36	28	41
AVERAGE CROWN LENGTH (FT)	34.6	24.7	28.2	24.2	23.4	29.5
DEAD TREES PER ACRE	0	0	0	0	10	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	1.7	0.0
DEAD TOTAL VOLUME (CU. FT/A)	1	1	0	1	48	0

PLOT SUMMARY REPORT

INSTALLATION 260 TUMWATER MTN
 REGION: CENTRAL WASHINGTON OWNERSHIP: LONGVIEW FIBER
 LEGAL DESCRIPTION: T24N R17E SECTION 3 MERIDIAN: WILLAMETTE

PLOT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1982)	200#N	0#N	400#N	0#N	200#N	400#N
SECOND TREATMENT (1988)	N+K	NONE	N+K	N+K	NONE	NONE

MEASUREMENTAL CHARACTERISTICS:

AT TIME OF TREATMENT (1982)	STAND	AGE	=	74
LIVE TREES PER ACRE	260	240	270	170
LIVE BASAL AREA (SQ. FT/A)	191.8	239.1	220.3	235.0
LIVE TOTAL VOLUME (CU. FT/A)	6632	8491	7469	7655
CROWN COMPETITION FACTOR	195	237	218	213
RELATIVE DENSITY INDEX	56.2	65.0	63.1	58.9
MEAN DIAMETER (IN)	11.6	13.5	12.2	15.9
SITE HEIGHT (FEET)	107.9	103.7	105.2	94.2
SPECIES COMPOSITION (% OF BA)				
DOUGLAS-FIR	90.7	96.2	34.4	98.8
GRAND FIR	0.7	3.8	3.4	1.2
PONDEROSA PINE	8.5	0.0	12.1	0.0

2 YEARS AFTER TREATMENT (1984)

LIVE TREES PER ACRE	250	240	270	170
LIVE BASAL AREA (SQ. FT/A)	198.2	249.6	231.4	241.7
CROWN COMPETITION FACTOR	196	245	226	218
RELATIVE DENSITY INDEX	57.1	67.2	65.3	60.1
MEAN DIAMETER (IN)	12.1	13.8	12.5	16.1
DEAD TREES PER ACRE	10	0	0	0
DEAD BASAL AREA (SQ. FT/A)	6.1	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1986)

LIVE TREES PER ACRE	250	240	270	170
LIVE BASAL AREA (SQ. FT/A)	206.7	256.9	239.8	249.6
LIVE TOTAL VOLUME (CU. FT/A)	7591	9395	8419	8388
CROWN COMPETITION FACTOR	202	250	232	224
RELATIVE DENSITY INDEX	58.9	68.6	67.1	61.6
MEAN DIAMETER (IN)	12.3	14.0	12.8	16.4
SITE HEIGHT (FEET)	113.7	106.6	108.4	97.6
AVERAGE CROWN RATIO (%)	33	36	32	43
AVERAGE CROWN LENGTH (FT)	29.8	33.7	26.3	39.3
DEAD TREES PER ACRE	10	0	0	0
DEAD BASAL AREA (SQ. FT/A)	6.1	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	117	0	0	0

6 YEARS AFTER TREATMENT (1988)

LIVE TREES PER ACRE	210	240	270	160
LIVE BASAL AREA (SQ. FT/A)	183.5	263.3	246.0	250.4
LIVE TOTAL VOLUME (CU. FT/A)	6879	9774	3769	8571
CROWN COMPETITION FACTOR	178	254	236	222
RELATIVE DENSITY INDEX	51.6	69.9	68.4	60.8
MEAN DIAMETER (IN)	12.7	14.2	12.9	16.9
SITE HEIGHT (FEET)	115.2	108.6	110.3	99.4
DEAD TREES PER ACRE	50	0	0	10
DEAD BASAL AREA (SQ. FT/A)	36.3	0.0	0.0	5.0
DEAD TOTAL VOLUME (CU. FT/A)	1170	0	0	174

8 YEARS AFTER TREATMENT (1990)

LIVE TREES PER ACRE	190	230	270	150
LIVE BASAL AREA (SQ. FT/A)	172.5	256.1	252.9	252.3
LIVE TOTAL VOLUME (CU. FT/A)	6566	9573	9160	8888
CROWN COMPETITION FACTOR	166	246	241	219
RELATIVE DENSITY INDEX	48.0	67.8	69.9	60.2
MEAN DIAMETER (IN)	12.9	14.3	13.1	17.6
SITE HEIGHT (FEET)	118.0	110.0	113.0	102.2
AVERAGE CROWN RATIO (%)	28	31	29	46
AVERAGE CROWN LENGTH (FT)	25.7	29.5	23.9	43.8
DEAD TREES PER ACRE	70	10	0	20
DEAD BASAL AREA (SQ. FT/A)	54.6	13.9	0.0	11.1
DEAD TOTAL VOLUME (CU. FT/A)	1834	548	0	349

PLOT SUMMARY REPORT

INSTALLATION 261 SECOND CREEK
 REGION: CENTRAL WASHINGTON OWNERSHIP: LONGVIEW FIBER
 LEGAL DESCRIPTION: T26N R18E SECTION 22 MERIDIAN: WILLAMETTE

PLOT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1982)	200#N	0#N	400#N	0#N	400#N	200#N
SECOND TREATMENT (1988)	NONE	NONE	NONE	N+K	N+K	N+K

MEASUREMENTAL CHARACTERISTICS:

AT TIME OF TREATMENT (1982)	STAND AGE = 75					
LIVE TREES PER ACRE	280	290	250	270	270	270
LIVE BASAL AREA (SQ. FT/A)	107.4	211.2	126.7	126.2	127.6	181.0
LIVE TOTAL VOLUME (CU. FT/A)	2747	7519	3542	3264	3629	5536
CROWN COMPETITION FACTOR	137	232	148	161	162	204
RELATIVE DENSITY INDEX	37.1	62.1	40.8	41.5	41.8	54.4
MEAN DIAMETER (IN)	8.4	11.5	9.6	9.3	9.3	11.1
SITE HEIGHT (FEET)	73.3	105.2	86.2	75.3	86.2	84.5
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	89.8	100.0	94.6	73.3	70.4	89.5
GRAND FIR	10.2	0.0	5.4	26.2	29.6	10.5

2 YEARS AFTER TREATMENT (1984)

LIVE TREES PER ACRE	280	290	250	270	270	270
LIVE BASAL AREA (SQ. FT/A)	121.6	217.7	141.3	134.1	141.3	193.0
CROWN COMPETITION FACTOR	151	236	163	168	175	213
RELATIVE DENSITY INDEX	40.7	63.5	44.3	43.4	45.1	57.0
MEAN DIAMETER (IN)	8.9	11.7	10.2	9.5	9.8	11.4
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1986)

LIVE TREES PER ACRE	280	290	250	270	270	270
LIVE BASAL AREA (SQ. FT/A)	131.4	222.1	151.9	139.8	150.5	201.1
LIVE TOTAL VOLUME (CU. FT/A)	3529	8037	4607	3765	4541	6401
CROWN COMPETITION FACTOR	160	240	174	173	185	221
RELATIVE DENSITY INDEX	43.1	64.5	46.8	44.8	47.3	58.8
MEAN DIAMETER (IN)	9.3	11.8	10.5	9.7	10.1	11.7
SITE HEIGHT (FEET)	78.0	107.2	91.6	78.7	91.3	87.7
AVERAGE CROWN RATIO (%)	41	31	47	40	47	37
AVERAGE CROWN LENGTH (FT)	27.0	29.2	34.7	26.2	32.2	30.3
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	1	0	0	0	0

6 YEARS AFTER TREATMENT (1988)

LIVE TREES PER ACRE	270	290	250	240	210	260
LIVE BASAL AREA (SQ. FT/A)	133.2	226.8	161.1	132.4	129.4	201.2
LIVE TOTAL VOLUME (CU. FT/A)	3639	8294	4986	3651	4000	6507
CROWN COMPETITION FACTOR	160	243	184	158	151	217
RELATIVE DENSITY INDEX	43.2	65.5	48.9	41.8	39.7	58.3
MEAN DIAMETER (IN)	9.5	12.0	10.9	10.1	10.6	11.9
SITE HEIGHT (FEET)	80.3	108.7	93.8	80.3	92.5	89.5
DEAD TREES PER ACRE	10	0	0	30	60	10
DEAD BASAL AREA (SQ. FT/A)	6.3	0.0	0.0	12.8	27.8	6.9
DEAD TOTAL VOLUME (CU. FT/A)	189	1	0	332	802	239

8 YEARS AFTER TREATMENT (1990)

LIVE TREES PER ACRE	260	290	240	210	210	260
LIVE BASAL AREA (SQ. FT/A)	138.7	233.4	163.1	123.7	138.2	211.2
LIVE TOTAL VOLUME (CU. FT/A)	3858	8618	5092	3438	4360	6351
CROWN COMPETITION FACTOR	165	250	182	142	159	226
RELATIVE DENSITY INDEX	44.1	67.0	48.8	38.4	41.7	60.4
MEAN DIAMETER (IN)	9.9	12.1	11.2	10.4	11.0	12.2
SITE HEIGHT (FEET)	81.5	110.3	94.7	82.1	95.5	91.0
AVERAGE CROWN RATIO (%)	43	32	45	42	53	38
AVERAGE CROWN LENGTH (FT)	29.7	31.2	34.7	29.1	39.1	32.8
DEAD TREES PER ACRE	20	0	10	60	60	10
DEAD BASAL AREA (SQ. FT/A)	8.1	0.0	7.6	29.3	27.8	6.9
DEAD TOTAL VOLUME (CU. FT/A)	226	0	253	817	802	239

PLOT SUMMARY REPORT

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INSTALLATION 262 STEVENS PASS

REGION: CENTRAL WASHINGTON

OWNERSHIP: LONGVIEW FIBER

LEGAL DESCRIPTION: T26N R15E SECTION 3

MERIDIAN: WILLAMETTE

PLOT NUMBER

	1	2	3	4	5	6
INITIAL TREATMENT (1982)	200#N	400#N	0#N	200#N	400#N	0#N
SECOND TREATMENT (1988)	200#N	200#N	NONE	NONE	N+K	N+K

MEASUREMENTAL CHARACTERISTICS:

AT TIME OF TREATMENT (1982)

STAND AGE = 75

LIVE TREES PER ACRE	350	420	350	360	410	360
LIVE BASAL AREA (SQ. FT/A)	168.8	224.7	173.1	247.2	217.3	282.5
LIVE TOTAL VOLUME (CU. FT/A)	4855	7167	5370	8615	6543	9430
CROWN COMPETITION FACTOR	204	263	212	238	261	312
RELATIVE DENSITY INDEX	55.1	71.4	56.1	73.8	69.2	81.6
MEAN DIAMETER (IN)	9.4	9.9	9.5	11.2	9.9	12.0
SITE HEIGHT (FEET)	86.8	95.1	87.9	95.0	84.5	102.5
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	76.6	70.9	78.3	47.9	52.7	61.9
GRAND FIR	19.2	24.3	20.5	52.1	40.7	15.3
WESTERN RED CEDAR	0.0	0.0	0.0	0.0	0.9	17.7
WESTERN HEMLOCK	4.1	4.8	1.1	0.0	5.7	5.2

2 YEARS AFTER TREATMENT (1984)

LIVE TREES PER ACRE	350	410	350	360	410	340
LIVE BASAL AREA (SQ. FT/A)	177.8	233.9	180.1	259.8	230.5	272.9
CROWN COMPETITION FACTOR	214	269	219	299	274	301
RELATIVE DENSITY INDEX	57.2	73.1	57.8	76.6	72.3	78.3
MEAN DIAMETER (IN)	9.6	10.2	9.7	11.5	10.1	12.1
DEAD TREES PER ACRE	0	10	0	0	0	20
DEAD BASAL AREA (SQ. FT/A)	0.0	1.4	0.0	0.0	0.0	21.6

4 YEARS AFTER TREATMENT (1986)

LIVE TREES PER ACRE	350	410	340	360	410	330
LIVE BASAL AREA (SQ. FT/A)	187.5	244.6	180.2	270.0	244.6	276.8
LIVE TOTAL VOLUME (CU. FT/A)	5656	8238	5796	9846	7791	9476
CROWN COMPETITION FACTOR	222	278	216	308	286	301
RELATIVE DENSITY INDEX	59.5	75.6	57.4	78.9	75.6	78.6
MEAN DIAMETER (IN)	9.9	10.5	9.9	11.7	10.5	12.4
SITE HEIGHT (FEET)	90.6	99.9	90.9	99.8	89.5	107.5
AVERAGE CROWN RATIO (%)	38	35	37	32	41	34
AVERAGE CROWN LENGTH (FT)	26.7	27.1	27.5	27.6	28.8	28.7
DEAD TREES PER ACRE	0	10	10	0	0	30
DEAD BASAL AREA (SQ. FT/A)	0.0	1.4	6.5	0.0	0.0	26.8
DEAD TOTAL VOLUME (CU. FT/A)	0	22	195	0	0	982

6 YEARS AFTER TREATMENT (1988)

LIVE TREES PER ACRE	340	410	340	360	410	330
LIVE BASAL AREA (SQ. FT/A)	194.7	255.4	187.4	280.8	258.4	288.4
LIVE TOTAL VOLUME (CU. FT/A)	6013	8796	6137	10434	8441	10028
CROWN COMPETITION FACTOR	227	287	222	314	298	310
RELATIVE DENSITY INDEX	60.8	78.1	59.1	81.2	78.8	81.0
MEAN DIAMETER (IN)	10.3	10.7	10.0	12.0	10.8	12.7
SITE HEIGHT (FEET)	92.1	102.7	93.2	102.5	92.5	109.6
DEAD TREES PER ACRE	10	10	10	0	0	30
DEAD BASAL AREA (SQ. FT/A)	2.3	1.4	6.5	0.0	0.0	26.8
DEAD TOTAL VOLUME (CU. FT/A)	58	22	195	4	0	982

8 YEARS AFTER TREATMENT (1990)

LIVE TREES PER ACRE	330	410	310	310	410	290
LIVE BASAL AREA (SQ. FT/A)	203.9	266.5	182.9	234.0	272.3	278.1
LIVE TOTAL VOLUME (CU. FT/A)	6412	9318	6079	8761	9049	9789
CROWN COMPETITION FACTOR	232	295	212	260	309	292
RELATIVE DENSITY INDEX	62.5	80.6	56.7	68.2	82.0	76.4
MEAN DIAMETER (IN)	10.6	10.9	10.4	11.8	11.0	13.3
SITE HEIGHT (FEET)	93.3	104.3	94.2	106.0	94.6	111.2
AVERAGE CROWN RATIO (%)	45	38	37	33	45	40
AVERAGE CROWN LENGTH (FT)	33.3	31.6	29.0	28.8	33.2	35.5
DEAD TREES PER ACRE	20	10	40	50	0	70
DEAD BASAL AREA (SQ. FT/A)	3.8	1.4	18.6	54.8	0.0	49.9
DEAD TOTAL VOLUME (CU. FT/A)	83	22	567	2123	1	1806

PLOT SUMMARY REPORT

INSTALLATION 263 N.F. TEANAWAY RIVER
 REGION: CENTRAL WASHINGTON OWNERSHIP: WASHINGTON DNR
 LEGAL DESCRIPTION: T21N R16E SECTION 20 MERIDIAN: WILLAMETTE

PLOT NUMBER

	1	2	3	4	5	6
INITIAL TREATMENT (1982)	0#N	200#N	400#N	200#N	0#N	400#N
SECOND TREATMENT (1988)	NONE	NONE	NONE	200#N	N+K	200#N

MEASUREMENTAL CHARACTERISTICS:

AI TIME OF TREATMENT (1982)	STAND AGE = 37					
LIVE TREES PER ACRE	210	200	180	260	220	170
LIVE BASAL AREA (SQ. FT/A)	129.2	129.6	138.7	209.5	193.2	129.7
LIVE TOTAL VOLUME (CU. FT/A)	3513	3572	4439	5867	5462	3495
CROWN COMPETITION FACTOR	139	141	145	222	207	139
RELATIVE DENSITY INDEX	39.4	39.3	40.2	60.1	54.2	37.7
MEAN DIAMETER (IN)	10.6	10.9	11.9	12.2	12.7	11.8
SITE HEIGHT (FEET)	84.5	82.5	93.3	80.3	84.6	77.5
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	69.1	85.3	85.5	85.6	100.0	69.5
GRAND FIR	14.3	0.0	0.0	3.8	0.0	0.0
PONDEROSA PINE	16.6	14.8	14.5	10.6	0.0	10.5

2 YEARS AFTER TREATMENT (1984)

LIVE TREES PER ACRE	210	200	180	260	220	170
LIVE BASAL AREA (SQ. FT/A)	135.3	141.7	151.9	220.2	201.7	139.9
CROWN COMPETITION FACTOR	146	152	156	230	214	150
RELATIVE DENSITY INDEX	41.0	42.0	43.1	62.4	56.0	39.9
MEAN DIAMETER (IN)	10.9	11.4	12.4	12.5	13.0	12.3
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1986)

LIVE TREES PER ACRE	210	200	180	260	220	170
LIVE BASAL AREA (SQ. FT/A)	141.7	151.4	162.6	228.7	209.2	147.3
LIVE TOTAL VOLUME (CU. FT/A)	4018	4353	5457	6686	6154	4182
CROWN COMPETITION FACTOR	151	161	163	237	219	156
RELATIVE DENSITY INDEX	42.5	44.1	45.3	64.2	57.6	41.5
MEAN DIAMETER (IN)	11.1	11.8	12.9	12.7	13.2	12.6
SITE HEIGHT (FEET)	87.6	86.7	98.2	84.8	88.9	83.0
AVERAGE CROWN RATIO (%)	50	49	48	42	44	47
AVERAGE CROWN LENGTH (FT)	32.8	35.0	40.4	31.0	35.0	34.3
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	0	0	0

6 YEARS AFTER TREATMENT (1988)

LIVE TREES PER ACRE	210	200	180	250	220	170
LIVE BASAL AREA (SQ. FT/A)	149.1	160.6	173.7	230.5	217.9	155.7
LIVE TOTAL VOLUME (CU. FT/A)	4309	4727	5939	6835	6556	4522
CROWN COMPETITION FACTOR	157	167	171	234	225	162
RELATIVE DENSITY INDEX	44.1	46.1	47.6	63.9	59.4	43.2
MEAN DIAMETER (IN)	11.4	12.1	13.3	13.0	13.5	13.0
SITE HEIGHT (FEET)	89.7	88.8	100.4	86.9	90.9	85.0
DEAD TREES PER ACRE	0	0	0	10	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	9.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	313	0	0

8 YEARS AFTER TREATMENT (1990)

LIVE TREES PER ACRE	210	200	170	250	220	170
LIVE BASAL AREA (SQ. FT/A)	155.6	168.1	175.8	238.8	227.9	162.2
LIVE TOTAL VOLUME (CU. FT/A)	4565	5032	6155	7207	7005	4782
CROWN COMPETITION FACTOR	163	173	172	240	232	167
RELATIVE DENSITY INDEX	45.6	47.7	47.4	65.6	61.4	44.6
MEAN DIAMETER (IN)	11.7	12.4	13.8	13.2	13.8	13.2
SITE HEIGHT (FEET)	90.7	90.5	103.3	88.3	93.7	85.8
AVERAGE CROWN RATIO (%)	52	50	57	55	51	52
AVERAGE CROWN LENGTH (FT)	36.0	37.9	49.8	43.2	42.5	40.0
DEAD TREES PER ACRE	0	0	10	10	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	7.5	9.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	243	313	0	0

PLOT SUMMARY REPORT

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INSTALLATION 264 RENFRO PEAK

REGION: NORTHERN IDAHO

CWNERSHIP: POTLATCH

LEGAL DESCRIPTION: T44N R1E SECTION 11 MERIDIAN: BOISE

PLOT NUMBER

INITIAL TREATMENT (1982)

SECOND TREATMENT (1988)

1	2	3	4	5	6
200#N	0#N	400#N	200#N	0#N	400#N
NONE	NONE	200#N	200#N	N+K	NONE

MENSURATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1982)

STAND AGE = 50

LIVE TREES PER ACRE	370	500	680	350	360	380
LIVE BASAL AREA (SQ. FT/A)	205.8	218.5	256.7	237.6	263.5	442.7
LIVE TOTAL VOLUME (CU. FT/A)	5467	5970	6941	6723	7811	6870
CROWN COMPETITION FACTOR	238	261	312	261	288	263
RELATIVE DENSITY INDEX	64.8	73.0	89.0	71.1	77.4	73.8
MEAN DIAMETER (IN)	10.1	8.9	8.3	11.2	11.6	10.8
SITE HEIGHT (FEET)	76.5	81.3	84.5	81.1	81.6	85.4
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	64.3	75.0	55.7	65.8	68.8	64.1
GRAND FIR	27.8	12.7	23.2	28.7	23.2	23.4
WESTERN RED CEDAR	0.0	0.3	0.0	0.0	0.0	0.0
WESTERN LARCH	7.1	10.1	20.0	5.5	8.0	12.5
ENGELMANN SPRUCE	0.8	1.8	1.2	0.0	0.0	0.0

2 YEARS AFTER TREATMENT (1984)

LIVE TREES PER ACRE	370	500	660	350	360	380
LIVE BASAL AREA (SQ. FT/A)	218.3	226.1	262.0	253.8	274.0	259.0
CROWN COMPETITION FACTOR	248	268	317	276	296	277
RELATIVE DENSITY INDEX	67.7	74.9	89.7	74.8	79.7	77.5
MEAN DIAMETER (IN)	10.4	9.1	8.5	11.5	11.8	11.2
DEAD TREES PER ACRE	0	0	20	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	3.7	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1986)

LIVE TREES PER ACRE	370	490	650	350	360	380
LIVE BASAL AREA (SQ. FT/A)	229.2	225.7	269.7	267.0	283.1	273.0
LIVE TOTAL VOLUME (CU. FT/A)	6501	6392	7710	8114	8874	8272
CROWN COMPETITION FACTOR	259	267	323	286	302	289
RELATIVE DENSITY INDEX	70.2	74.5	91.3	77.6	81.7	80.6
MEAN DIAMETER (IN)	10.7	9.2	8.7	11.8	12.0	11.5
SITE HEIGHT (FEET)	80.9	84.6	89.7	86.6	86.0	90.5
AVERAGE CROWN RATIO (%)	50	37	35	51	41	46
AVERAGE CROWN LENGTH (FT)	31.8	24.0	22.2	34.8	30.9	31.7
DEAD TREES PER ACRE	0	10	30	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	6.8	6.3	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	199	148	3	0	0

6 YEARS AFTER TREATMENT (1988)

LIVE TREES PER ACRE	370	490	610	350	360	370
LIVE BASAL AREA (SQ. FT/A)	240.9	234.7	274.4	281.4	295.0	286.1
LIVE TOTAL VOLUME (CU. FT/A)	7051	6828	8133	8839	9499	8953
CROWN COMPETITION FACTOR	270	275	319	299	312	300
RELATIVE DENSITY INDEX	72.9	76.7	91.0	80.8	84.3	82.9
MEAN DIAMETER (IN)	10.9	9.4	9.1	12.1	12.3	11.9
SITE HEIGHT (FEET)	83.1	87.1	92.6	89.3	88.3	92.2
DEAD TREES PER ACRE	0	10	70	0	0	10
DEAD BASAL AREA (SQ. FT/A)	0.0	0.8	14.5	0.0	0.0	1.1
DEAD TOTAL VOLUME (CU. FT/A)	0	199	336	4	1	20

8 YEARS AFTER TREATMENT (1990)

LIVE TREES PER ACRE	370	480	580	350	360	370
LIVE BASAL AREA (SQ. FT/A)	252.8	241.1	277.2	297.9	308.4	299.9
LIVE TOTAL VOLUME (CU. FT/A)	7632	7209	8529	9641	10257	9675
CROWN COMPETITION FACTOR	280	277	317	313	322	311
RELATIVE DENSITY INDEX	75.6	77.8	90.6	84.3	87.1	85.9
MEAN DIAMETER (IN)	11.2	9.6	9.4	12.5	12.5	12.2
SITE HEIGHT (FEET)	85.9	90.3	95.9	92.5	92.0	95.6
AVERAGE CROWN RATIO (%)	40	32	30	43	36	37
AVERAGE CROWN LENGTH (FT)	27.2	21.6	20.8	30.8	29.1	27.8
DEAD TREES PER ACRE	0	20	100	0	0	10
DEAD BASAL AREA (SQ. FT/A)	0.0	10.3	24.3	0.0	0.0	1.1
DEAD TOTAL VOLUME (CU. FT/A)	0	296	588	5	1	20

PLOT SUMMARY REPORT

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INSTALLATION 265 MALLORY CREEK
 REGION: NORTHERN IDAHO OWNERSHIP: POTLATCH
 LEGAL DESCRIPTION: T41N R2E SECTION 18 MERIDIAN: BOISE

PLOT NUMBER

	1	2	3	4	5	6
INITIAL TREATMENT (1982)	400#N	200#N	0#N	0#N	200#N	400#N
SECOND TREATMENT (1988)	200#N	200#N	N+K	NONE	NONE	NONE

MEASUREMENTAL CHARACTERISTICS:

AT TIME OF TREATMENT (1982)

STAND AGE = 32

LIVE TREES PER ACRE	260	330	340	320	320	350
LIVE BASAL AREA (SQ. FT/A)	131.0	129.8	166.9	94.9	130.5	121.6
LIVE TOTAL VOLUME (CU. FT/A)	2970	2681	3952	1827	2704	2551
CROWN COMPETITION FACTOR	159	160	197	126	159	153
RELATIVE DENSITY INDEX	42.3	44.5	54.2	35.0	44.4	43.0
MEAN DIAMETER (IN)	9.6	8.5	9.5	7.4	8.6	8.0
SITE HEIGHT (FEET)	62.3	61.9	67.5	53.5	57.8	63.9
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	90.0	78.4	89.1	33.0	75.6	94.9
GRAND FIR	1.6	12.9	7.0	16.0	14.3	5.1
WESTERN RED CEDAR	8.3	1.6	0.0	0.0	0.0	0.0
WESTERN LARCH	0.0	4.8	2.3	0.0	0.0	0.0
WESTERN WHITE PINE	0.0	2.3	1.6	1.0	9.9	0.0

2 YEARS AFTER TREATMENT (1984)

LIVE TREES PER ACRE	260	320	340	320	320	350
LIVE BASAL AREA (SQ. FT/A)	151.4	148.9	182.4	108.3	149.2	139.0
CROWN COMPETITION FACTOR	179	180	212	143	178	171
RELATIVE DENSITY INDEX	47.1	49.0	57.9	38.6	49.1	47.6
MEAN DIAMETER (IN)	10.3	9.2	9.9	7.9	9.3	8.5
DEAD TREES PER ACRE	0.0	10	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	3.0	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1986)

LIVE TREES PER ACRE	250	320	340	320	300	350
LIVE BASAL AREA (SQ. FT/A)	164.8	166.8	196.1	120.7	159.0	153.8
LIVE TOTAL VOLUME (CU. FT/A)	4099	4107	5108	2572	3704	3540
CROWN COMPETITION FACTOR	189	197	224	156	183	186
RELATIVE DENSITY INDEX	49.7	53.3	61.2	41.9	50.6	51.3
MEAN DIAMETER (IN)	11.0	9.8	10.3	8.3	9.9	9.0
SITE HEIGHT (FEET)	69.1	67.7	74.7	60.2	64.6	69.9
AVERAGE CROWN RATIO (%)	58	60	49	68	68	56
AVERAGE CROWN LENGTH (FT)	36.8	35.5	32.2	34.1	35.8	30.5
DEAD TREES PER ACRE	10	10	0	0	20	0
DEAD BASAL AREA (SQ. FT/A)	4.5	3.0	0.0	0.0	6.3	0.0
DEAD TOTAL VOLUME (CU. FT/A)	105	70	0	0	113	0

6 YEARS AFTER TREATMENT (1988)

LIVE TREES PER ACRE	250	310	340	310	300	350
LIVE BASAL AREA (SQ. FT/A)	180.1	181.9	210.2	133.4	174.1	167.2
LIVE TOTAL VOLUME (CU. FT/A)	4668	4682	5677	2976	4221	3979
CROWN COMPETITION FACTOR	205	208	236	170	201	198
RELATIVE DENSITY INDEX	53.1	56.5	64.4	44.8	54.2	54.6
MEAN DIAMETER (IN)	11.5	10.4	10.6	8.9	10.3	9.4
SITE HEIGHT (FEET)	72.2	70.8	77.9	62.8	67.3	72.5
DEAD TREES PER ACRE	10	20	0	10	20	0
DEAD BASAL AREA (SQ. FT/A)	4.5	3.7	0.0	1.0	6.3	0.0
DEAD TOTAL VOLUME (CU. FT/A)	105	80	0	12	113	0

8 YEARS AFTER TREATMENT (1990)

LIVE TREES PER ACRE	250	310	340	310	300	340
LIVE BASAL AREA (SQ. FT/A)	197.7	201.3	227.2	147.3	189.3	178.9
LIVE TOTAL VOLUME (CU. FT/A)	5367	5435	6424	3439	4813	4446
CROWN COMPETITION FACTOR	219	224	250	184	215	208
RELATIVE DENSITY INDEX	57.0	60.9	68.3	48.2	57.7	57.1
MEAN DIAMETER (IN)	12.0	10.9	11.1	9.3	10.8	9.8
SITE HEIGHT (FEET)	75.6	74.7	82.0	63.9	70.6	75.8
AVERAGE CROWN RATIO (%)	49	48	38	51	51	42
AVERAGE CROWN LENGTH (FT)	34.8	31.5	26.8	29.4	30.5	25.3
DEAD TREES PER ACRE	10	20	0	10	20	10
DEAD BASAL AREA (SQ. FT/A)	4.5	3.7	0.0	1.0	6.3	2.2
DEAD TOTAL VOLUME (CU. FT/A)	105	80	0	12	113	42

PLOT SUMMARY REPORT

INSTALLATION 266 DOUGLAS FALLS #1
 REGION: NORTHEAST WASHINGTON OWNERSHIP: WASHINGTON DNR
 LEGAL DESCRIPTION: T36N R39E SECTION 16 MERIDIAN: WILLAMETTE

PLOT NUMBER

	1	2	3	4	5	6
INITIAL TREATMENT (1982)	400#N	0#N	200#N	0#N	400#N	200#N
SECOND TREATMENT (1988)	200#N	NONE	200#N	N+K	NONE	NONE

MEASUREMENTAL CHARACTERISTICS:

AT TIME OF TREATMENT (1982)

STAND AGE = 83

LIVE TREES PER ACRE	230	260	290	220	250	220
LIVE BASAL AREA (SQ. FT/A)	132.7	110.7	133.8	97.5	136.8	120.6
LIVE TOTAL VOLUME (CU. FT/A)	3197	2515	3346	2351	3554	3100
CROWN COMPETITION FACTOR	151	134	157	116	158	138
RELATIVE DENSITY INDEX	41.4	37.2	44.1	32.5	43.2	38.1
MEAN DIAMETER (IN)	10.3	8.8	9.2	9.0	10.0	10.0
SITE HEIGHT (FEET)	71.8	62.5	73.0	71.9	78.0	74.7
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	100.0	100.0	91.0	96.5	100.0	97.4
WESTERN LARCH	0.0	0.0	3.9	3.4	0.0	0.0
LODGEPOLE PINE	0.0	0.0	5.1	0.0	0.0	0.0
PONDEROSA PINE	0.0	0.0	0.0	0.0	0.0	2.6

2 YEARS AFTER TREATMENT (1984)

LIVE TREES PER ACRE	230	260	290	220	250	220
LIVE BASAL AREA (SQ. FT/A)	140.7	116.2	143.0	103.4	147.7	128.3
CROWN COMPETITION FACTOR	159	140	165	121	167	147
RELATIVE DENSITY INDEX	43.2	38.6	46.4	33.9	45.8	39.9
MEAN DIAMETER (IN)	10.6	9.0	9.5	9.3	10.4	10.3
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1986)

LIVE TREES PER ACRE	230	260	280	220	250	220
LIVE BASAL AREA (SQ. FT/A)	147.4	119.9	148.3	107.7	156.1	133.7
LIVE TOTAL VOLUME (CU. FT/A)	3713	2824	3887	2712	4264	3582
CROWN COMPETITION FACTOR	165	143	168	125	175	151
RELATIVE DENSITY INDEX	44.8	39.5	47.2	35.0	47.7	41.1
MEAN DIAMETER (IN)	10.8	9.2	9.8	9.5	10.7	10.5
SITE HEIGHT (FEET)	75.3	64.6	75.1	75.2	82.9	77.8
AVERAGE CROWN RATIO (%)	46	42	42	47	49	45
AVERAGE CROWN LENGTH (FT)	29.2	24.5	26.3	29.6	32.8	30.8
DEAD TREES PER ACRE	0	0	10	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	2.3	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	47	0	0	0

6 YEARS AFTER TREATMENT (1988)

LIVE TREES PER ACRE	230	260	280	220	250	220
LIVE BASAL AREA (SQ. FT/A)	155.0	125.3	154.3	112.8	164.6	139.9
LIVE TOTAL VOLUME (CU. FT/A)	3990	3011	4130	2897	4602	3819
CROWN COMPETITION FACTOR	172	148	174	131	184	156
RELATIVE DENSITY INDEX	46.5	40.9	48.7	36.2	49.7	42.8
MEAN DIAMETER (IN)	11.1	9.4	10.0	9.7	11.0	10.8
SITE HEIGHT (FEET)	76.8	66.3	77.1	76.5	85.8	79.2
DEAD TREES PER ACRE	0	0	10	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	2.3	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	47	0	0	0

8 YEARS AFTER TREATMENT (1990)

LIVE TREES PER ACRE	230	260	270	220	250	220
LIVE BASAL AREA (SQ. FT/A)	163.5	130.6	157.8	121.0	173.8	146.0
LIVE TOTAL VOLUME (CU. FT/A)	4300	3191	4345	3179	4943	4036
CROWN COMPETITION FACTOR	179	154	176	139	191	163
RELATIVE DENSITY INDEX	48.4	42.2	49.0	38.2	51.7	44.0
MEAN DIAMETER (IN)	11.4	9.6	10.3	10.0	11.3	11.0
SITE HEIGHT (FEET)	78.9	67.8	80.9	78.5	87.2	80.4
AVERAGE CROWN RATIO (%)	45	43	40	47	45	42
AVERAGE CROWN LENGTH (FT)	30.2	25.8	26.6	31.0	32.1	29.9
DEAD TREES PER ACRE	0	0	20	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	7.8	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	168	0	0	0

PLOT SUMMARY REPORT

INSTALLATION 267 DOUGLAS FALLS #2
 REGION: NORTHEAST WASHINGTON OWNERSHIP: WASHINGTON DNR
 LEGAL DESCRIPTION: T36N R39E SECTION 16 MERIDIAN: WILLAMETTE

PLOT NUMBER

	1	2	3	4	5	6
INITIAL TREATMENT (1982)	400#N	0#N	200#N	400#N	0#N	200#N
SECOND TREATMENT (1988)	NONE	NONE	NONE	N+K	N+K	N+K

MENSURATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1982)	STAND AGE = 81					
LIVE TREES PER ACRE	250	200	200	220	210	190
LIVE BASAL AREA (SQ. FT/A)	157.8	124.5	110.1	120.3	107.1	38.2
LIVE TOTAL VOLUME (CU. FT/A)	4106	3371	2988	3295	2583	2106
CROWN COMPETITION FACTOR	180	135	122	138	126	106
RELATIVE DENSITY INDEX	48.1	38.1	34.7	38.0	34.4	29.0
MEAN DIAMETER (IN)	10.8	10.7	10.0	10.0	9.7	9.2
SITE HEIGHT (FEET)	72.2	80.6	82.6	81.3	68.1	66.8
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	100.0	100.0	98.5	100.0	100.0	100.0
LODGEPOLE PINE	0.0	0.0	1.5	0.0	0.0	0.0

2 YEARS AFTER TREATMENT (1984)

LIVE TREES PER ACRE	250	200	200	220	210	190
LIVE BASAL AREA (SQ. FT/A)	166.7	132.2	116.7	129.3	112.1	98.9
CROWN COMPETITION FACTOR	188	141	128	145	131	118
RELATIVE DENSITY INDEX	50.1	39.8	36.3	40.1	35.6	31.6
MEAN DIAMETER (IN)	11.1	11.0	10.3	10.4	9.9	9.8
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1986)

LIVE TREES PER ACRE	250	200	190	200	210	190
LIVE BASAL AREA (SQ. FT/A)	175.0	138.3	116.5	129.0	116.2	106.3
LIVE TOTAL VOLUME (CU. FT/A)	4780	3904	3276	3666	2887	2639
CROWN COMPETITION FACTOR	194	146	125	142	135	125
RELATIVE DENSITY INDEX	52.0	41.2	35.8	39.1	36.6	33.4
MEAN DIAMETER (IN)	11.3	11.3	10.6	10.9	10.1	10.1
SITE HEIGHT (FEET)	76.3	84.5	86.1	84.6	70.4	70.4
AVERAGE CROWN RATIO (%)	46	48	41	43	43	44
AVERAGE CROWN LENGTH (FT)	32.5	32.6	27.4	31.0	26.7	28.2
DEAD TREES PER ACRE	0	0	10	20	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	6.1	6.7	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	173	173	0	0

6 YEARS AFTER TREATMENT (1988)

LIVE TREES PER ACRE	250	200	190	200	200	190
LIVE BASAL AREA (SQ. FT/A)	181.2	143.9	126.1	136.2	116.5	113.8
LIVE TOTAL VOLUME (CU. FT/A)	5052	4134	3612	3953	2969	2889
CROWN COMPETITION FACTOR	199	150	134	149	133	133
RELATIVE DENSITY INDEX	53.4	42.5	38.0	40.7	36.2	35.1
MEAN DIAMETER (IN)	11.5	11.5	11.0	11.2	10.3	10.5
SITE HEIGHT (FEET)	77.7	86.2	87.7	86.8	72.2	72.0
DEAD TREES PER ACRE	0	0	10	20	10	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	1.6	6.7	3.8	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	43	173	86	0

8 YEARS AFTER TREATMENT (1990)

LIVE TREES PER ACRE	250	200	190	200	200	190
LIVE BASAL AREA (SQ. FT/A)	189.0	150.4	131.5	145.6	122.8	123.4
LIVE TOTAL VOLUME (CU. FT/A)	5342	4359	3818	4317	3188	3205
CROWN COMPETITION FACTOR	206	156	139	160	140	143
RELATIVE DENSITY INDEX	55.1	43.9	39.2	42.8	37.7	37.3
MEAN DIAMETER (IN)	11.8	11.7	11.3	11.5	10.8	10.9
SITE HEIGHT (FEET)	79.1	87.1	88.8	89.0	73.9	74.0
AVERAGE CROWN RATIO (%)	41	49	42	46	46	45
AVERAGE CROWN LENGTH (FT)	30.1	34.9	29.7	35.5	29.9	30.4
DEAD TREES PER ACRE	0	0	10	20	10	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	1.6	6.7	3.8	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	43	173	86	0

PLCT SUMMARY REPORT

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INSTALLATION 268 SHEEP CREEK
 REGION: NORTHEAST WASHINGTON OWNERSHIP: INLAND EMPIRE
 LEGAL DESCRIPTION: T40N R39E SECTION 8 MERIDIAN: WILLAMETTE

PLCT NUMBER

	1	2	3	4	5	6
INITIAL TREATMENT (1982)	200#N	0#N	400#N	400#N	200#N	0#N
SECOND TREATMENT (1988)	NONE	N+K	NONE	200#N	200#N	NONE

MENSURATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1982)

STAND AGE = 55

LIVE TREES PER ACRE	370	310	340	280	440	410
LIVE BASAL AREA (SQ. FT/A)	181.1	145.6	198.6	187.6	216.7	193.3
LIVE TOTAL VOLUME (CU. FT/A)	4559	3747	5763	5571	6333	5321
CROWN COMPETITION FACTOR	216	172	219	202	243	217
RELATIVE DENSITY INDEX	58.8	47.8	61.7	56.3	70.3	63.4
MEAN DIAMETER (IN)	9.5	9.3	10.3	11.1	9.5	9.3
SITE HEIGHT (FEET)	70.9	71.9	82.8	84.5	91.1	86.6
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	100.0	100.0	97.7	92.7	86.6	90.1
GRAND FIR	0.0	0.0	0.3	7.3	6.4	0.0
WESTERN RED CEDAR	0.0	0.0	0.0	0.0	0.0	5.1
WESTERN LARCH	0.0	0.0	0.0	0.0	1.4	0.0
PONDEROSA PINE	0.0	0.0	1.9	0.0	0.0	0.0
ENGELMANN SPRUCE	0.0	0.0	0.0	0.0	5.6	4.8

2 YEARS AFTER TREATMENT (1984)

LIVE TREES PER ACRE	370	300	340	280	440	410
LIVE BASAL AREA (SQ. FT/A)	193.4	150.1	210.9	199.0	232.4	203.3
CROWN COMPETITION FACTOR	228	175	228	211	257	225
RELATIVE DENSITY INDEX	61.8	48.5	64.6	58.9	74.1	65.8
MEAN DIAMETER (IN)	9.8	9.6	10.7	11.4	9.8	9.5
DEAD TREES PER ACRE	0	10	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	3.9	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1986)

LIVE TREES PER ACRE	370	300	330	280	440	410
LIVE BASAL AREA (SQ. FT/A)	203.1	158.1	219.3	208.5	245.4	213.0
LIVE TOTAL VOLUME (CU. FT/A)	5393	4279	6718	6512	7520	6148
CROWN COMPETITION FACTOR	237	183	232	219	267	234
RELATIVE DENSITY INDEX	64.1	50.4	66.0	61.0	77.2	68.2
MEAN DIAMETER (IN)	10.0	9.3	11.0	11.7	10.1	9.8
SITE HEIGHT (FEET)	75.1	76.7	88.3	89.4	96.5	91.1
AVERAGE CROWN RATIO (%)	38	38	37	45	36	39
AVERAGE CROWN LENGTH (FT)	25.6	25.8	27.1	33.4	26.7	25.4
DEAD TREES PER ACRE	0	10	10	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	3.9	2.1	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	106	60	1	1	0

6 YEARS AFTER TREATMENT (1988)

LIVE TREES PER ACRE	370	300	300	240	390	410
LIVE BASAL AREA (SQ. FT/A)	210.8	165.0	222.0	203.4	244.0	220.2
LIVE TOTAL VOLUME (CU. FT/A)	5724	4584	6965	6535	7729	6508
CROWN COMPETITION FACTOR	245	190	230	205	259	241
RELATIVE DENSITY INDEX	65.9	52.1	65.0	57.6	74.5	69.9
MEAN DIAMETER (IN)	10.2	10.0	11.6	12.5	10.7	9.9
SITE HEIGHT (FEET)	76.9	79.8	90.6	92.3	100.0	93.3
DEAD TREES PER ACRE	0	10	40	40	50	0
DEAD BASAL AREA (SQ. FT/A)	0.0	3.9	8.5	12.0	10.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	106	237	373	265	0

8 YEARS AFTER TREATMENT (1990)

LIVE TREES PER ACRE	370	300	290	230	390	410
LIVE BASAL AREA (SQ. FT/A)	219.2	175.0	231.8	212.7	257.1	228.9
LIVE TOTAL VOLUME (CU. FT/A)	6124	4992	7444	7011	8314	6890
CROWN COMPETITION FACTOR	252	198	236	210	270	248
RELATIVE DENSITY INDEX	67.9	54.4	66.6	58.9	77.5	72.0
MEAN DIAMETER (IN)	10.4	10.3	12.1	13.0	11.0	10.1
SITE HEIGHT (FEET)	79.2	82.2	93.4	95.5	102.5	94.6
AVERAGE CROWN RATIO (%)	38	40	41	45	38	38
AVERAGE CROWN LENGTH (FT)	27.7	29.2	32.3	36.4	30.6	26.4
DEAD TREES PER ACRE	0	10	50	50	50	0
DEAD BASAL AREA (SQ. FT/A)	0.0	3.9	9.3	13.6	10.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	106	252	419	266	0

PLOT SUMMARY REPORT

INSTALLATION 269 UPPER BURNT FOPK CR
 REGION: MONTANA
 LEGAL DESCRIPTION: T15N R16W SECTION 27 OWNERSHIP: CHAMPION MERIDIAN: PRINCIPAL

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PLOT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1982)	0#N	200#N	400#N	200#N	400#N	0#N
SECOND TREATMENT (1988)	N+K	NONE	NONE	200#N	200#N	NONE

MENSURATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1982)	STAND AGE = 57					
LIVE TREES PER ACRE	320	270	370	290	350	280
LIVE BASAL AREA (SQ. FT/A)	147.2	130.6	147.7	130.1	157.4	160.4
LIVE TOTAL VOLUME (CU. FT/A)	2967	2437	2810	2639	2890	3256
CROWN COMPETITION FACTOR	169	153	175	155	189	181
RELATIVE DENSITY INDEX	48.6	42.6	50.5	43.2	52.2	50.1
MEAN DIAMETER (IN)	9.2	9.4	8.5	9.1	9.1	10.3
SITE HEIGHT (FEET)	57.9	54.5	55.7	58.8	49.1	60.3
SPECIES COMPOSITION (% OF 3A)						
DOUGLAS-FIR	84.9	93.1	94.4	96.5	96.7	92.9
WESTERN LARCH	4.5	0.9	3.6	0.0	0.0	4.5
LODGEPOLE PINE	10.6	5.9	0.0	3.5	3.3	2.6
ENGELMANN SPRUCE	0.0	0.0	1.9	0.0	0.0	0.0

2 YEARS AFTER TREATMENT (1984)

LIVE TREES PER ACRE	320	270	370	290	350	280
LIVE BASAL AREA (SQ. FT/A)	150.8	137.1	154.6	135.1	165.8	167.0
CROWN COMPETITION FACTOR	174	159	181	159	158	186
RELATIVE DENSITY INDEX	49.5	44.1	52.3	44.4	54.3	51.6
MEAN DIAMETER (IN)	9.3	9.6	8.8	9.2	9.3	10.5
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1986)

LIVE TREES PER ACRE	320	270	370	290	350	280
LIVE BASAL AREA (SQ. FT/A)	154.8	143.0	161.5	140.6	172.6	172.4
LIVE TOTAL VOLUME (CU. FT/A)	3252	2814	3257	2978	3325	3651
CROWN COMPETITION FACTOR	177	164	187	164	204	190
RELATIVE DENSITY INDEX	50.4	45.5	54.0	45.8	56.0	52.9
MEAN DIAMETER (IN)	9.4	9.8	8.9	9.4	9.5	10.6
SITE HEIGHT (FEET)	60.8	58.1	59.4	61.8	51.9	63.4
AVERAGE CROWN RATIO (%)	50	56	52	48	52	54
AVERAGE CROWN LENGTH (FT)	25.5	26.4	24.5	23.8	24.7	28.6
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	0	0	0

6 YEARS AFTER TREATMENT (1988)

LIVE TREES PER ACRE	320	270	370	290	350	280
LIVE BASAL AREA (SQ. FT/A)	156.9	145.8	165.6	144.0	175.6	174.9
LIVE TOTAL VOLUME (CU. FT/A)	3351	2939	3415	3115	3459	3775
CROWN COMPETITION FACTOR	179	167	192	166	207	192
RELATIVE DENSITY INDEX	51.0	46.2	55.0	46.6	56.7	53.5
MEAN DIAMETER (IN)	9.5	9.9	9.1	9.5	9.6	10.7
SITE HEIGHT (FEET)	61.8	59.5	60.9	63.1	53.3	64.6
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	1	0	0	0	0	0

8 YEARS AFTER TREATMENT (1990)

LIVE TREES PER ACRE	310	270	350	290	340	280
LIVE BASAL AREA (SQ. FT/A)	156.8	153.0	168.9	151.1	181.6	181.8
LIVE TOTAL VOLUME (CU. FT/A)	3387	3130	3570	3323	3649	3985
CROWN COMPETITION FACTOR	180	173	194	172	212	198
RELATIVE DENSITY INDEX	50.5	47.9	55.1	48.3	57.7	55.0
MEAN DIAMETER (IN)	9.6	10.2	9.4	9.8	9.9	10.9
SITE HEIGHT (FEET)	63.3	60.6	62.4	65.6	54.6	65.8
AVERAGE CROWN RATIO (%)	50	53	53	51	54	56
AVERAGE CROWN LENGTH (FT)	26.3	26.3	26.5	26.0	26.9	30.5
DEAD TREES PER ACRE	10	0	20	0	10	0
DEAD BASAL AREA (SQ. FT/A)	6.3	0.0	3.9	0.0	2.2	0.0
DEAD TOTAL VOLUME (CU. FT/A)	149	0	62	0	38	0

PLOT SUMMARY REPORT

INSTALLATION 270 HOWARD CREEK
REGION: MONTANA

OWNERSHIP: CHAMPION

LEGAL DESCRIPTION: T12N R23W SECTION 19 MERIDIAN: PRINCIPAL

PLOT NUMBER

	1	2	3	4	5	6
INITIAL TREATMENT (1982)	400#N	200#N	0#N	0#N	200#N	400#N
SECOND TREATMENT (1983)	NONE	N+K	N+K	NONE	NONE	N+K

MEASUREMENTAL CHARACTERISTICS:

AT TIME OF TREATMENT (1982)	STAND	AGE = 43				
LIVE TREES PER ACRE	170	280	260	230	240	280
LIVE BASAL AREA (SQ. FT/A)	124.6	129.3	111.0	104.3	132.4	130.4
LIVE TOTAL VOLUME (CU. FT/A)	2245	2539	2322	1954	2528	3035
CROWN COMPETITION FACTOR	130	142	124	123	150	153
RELATIVE DENSITY INDEX	36.6	42.8	37.3	34.5	41.8	45.1
MEAN DIAMETER (IN)	11.6	9.2	8.8	9.1	10.1	9.5
SITE HEIGHT (FEET)	52.4	56.2	58.8	53.8	50.5	64.0
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	93.0	78.2	74.6	95.9	94.6	89.0
WESTERN LARCH	0.0	0.0	2.4	0.0	0.0	0.0
LODGEPOLE PINE	0.0	0.0	14.6	0.0	0.0	0.0
PONDEROSA PINE	0.9	21.8	8.4	4.1	5.4	11.0

2 YEARS AFTER TREATMENT (1984)

LIVE TREES PER ACRE	170	280	260	230	240	280
LIVE BASAL AREA (SQ. FT/A)	134.2	137.8	115.4	110.1	140.0	145.7
CROWN COMPETITION FACTOR	137	149	127	129	157	163
RELATIVE DENSITY INDEX	38.7	44.7	38.4	36.0	43.5	46.6
MEAN DIAMETER (IN)	12.0	9.5	9.0	9.4	10.3	9.8
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1986)

LIVE TREES PER ACRE	170	280	260	230	240	280
LIVE BASAL AREA (SQ. FT/A)	141.8	146.6	119.2	116.2	146.1	150.9
LIVE TOTAL VOLUME (CU. FT/A)	2723	3119	2643	2312	2962	3453
CROWN COMPETITION FACTOR	143	157	130	134	162	169
RELATIVE DENSITY INDEX	40.3	46.8	39.4	37.5	44.9	47.9
MEAN DIAMETER (IN)	12.4	9.8	9.2	9.6	10.6	9.9
SITE HEIGHT (FEET)	56.4	61.5	62.6	57.4	53.7	67.5
AVERAGE CROWN RATIO (%)	77	62	60	71	62	50
AVERAGE CROWN LENGTH (FT)	36.2	31.3	30.0	33.8	32.3	28.8
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	0	0	0

6 YEARS AFTER TREATMENT (1988)

LIVE TREES PER ACRE	170	280	260	230	240	280
LIVE BASAL AREA (SQ. FT/A)	146.4	152.3	122.4	120.0	149.8	154.5
LIVE TOTAL VOLUME (CU. FT/A)	2873	3340	2772	2436	3110	3602
CROWN COMPETITION FACTOR	147	163	133	137	167	172
RELATIVE DENSITY INDEX	41.3	48.2	40.2	38.4	45.8	48.7
MEAN DIAMETER (IN)	12.6	10.0	9.3	9.8	10.7	10.1
SITE HEIGHT (FEET)	57.8	63.6	63.8	58.6	55.1	68.8
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	0	0	0

3 YEARS AFTER TREATMENT (1990)

LIVE TREES PER ACRE	170	280	260	230	240	280
LIVE BASAL AREA (SQ. FT/A)	153.7	161.2	127.7	126.1	156.5	159.6
LIVE TOTAL VOLUME (CU. FT/A)	3065	3666	2959	2608	3325	3782
CROWN COMPETITION FACTOR	153	171	138	144	172	176
RELATIVE DENSITY INDEX	42.8	50.3	41.5	39.8	47.3	49.9
MEAN DIAMETER (IN)	12.9	10.3	9.5	10.0	10.9	10.2
SITE HEIGHT (FEET)	58.9	66.4	65.7	59.8	56.6	69.8
AVERAGE CROWN RATIO (%)	76	65	60	72	62	51
AVERAGE CROWN LENGTH (FT)	37.5	35.0	31.6	35.6	34.3	30.9
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	0	0	0

PLOT SUMMARY REPORT

INSTALLATION 271 WHITNEY CREEK
 REGION: MONTANA OWNERSHIP: CHAMPION
 LEGAL DESCRIPTION: T25N R27W SECTION 7 MERIDIAN: PRINCIPAL

PLOT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1982)	400#N	200#N	0#N	400#N	200#N	0#N
SECOND TREATMENT (1988)	N+K	NONE	NONE	200#N	N+K	N+K
MENSURATIONAL CHARACTERISTICS:						
AT TIME OF TREATMENT (1982)	STAND AGE = 57					
LIVE TREES PER ACRE	350	340	530	300	540	440
LIVE BASAL AREA (SQ. FT/A)	158.5	148.9	173.7	130.0	174.0	149.1
LIVE TOTAL VOLUME (CU. FT/A)	359.8	370.5	415.7	297.4	376.4	322.4
CROWN COMPETITION FACTOR	168	166	190	141	191	169
RELATIVE DENSITY INDEX	52.5	49.7	62.4	43.5	62.8	53.1
MEAN DIAMETER (IN)	9.1	9.0	7.8	8.9	7.7	7.9
SITE HEIGHT (FEET)	63.8	68.2	65.5	64.6	57.7	53.9
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	55.0	70.3	44.9	63.9	48.3	60.6
WESTERN LARCH	26.8	10.9	29.5	7.5	9.6	5.9
LODGEPOLE PINE	0.7	8.4	14.4	8.5	21.2	11.2
PONDEROSA PINE	17.5	10.3	11.1	20.1	20.9	22.3
2 YEARS AFTER TREATMENT (1984)						
LIVE TREES PER ACRE	350	340	500	300	450	420
LIVE BASAL AREA (SQ. FT/A)	167.6	156.3	165.5	138.5	153.6	149.1
CROWN COMPETITION FACTOR	175	173	182	149	169	168
RELATIVE DENSITY INDEX	54.8	51.6	59.3	45.7	54.6	52.5
MEAN DIAMETER (IN)	9.4	9.2	7.8	9.2	7.9	8.1
DEAD TREES PER ACRE	0	0	30	0	90	20
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	13.3	0.0	28.0	3.1
4 YEARS AFTER TREATMENT (1986)						
LIVE TREES PER ACRE	310	310	470	250	370	420
LIVE BASAL AREA (SQ. FT/A)	156.3	152.2	165.9	130.7	143.5	154.7
LIVE TOTAL VOLUME (CU. FT/A)	368.3	394.6	405.3	306.5	304.4	343.7
CROWN COMPETITION FACTOR	166	169	184	141	159	175
RELATIVE DENSITY INDEX	50.4	49.4	58.5	41.8	49.4	54.0
MEAN DIAMETER (IN)	9.6	9.5	8.0	9.8	8.4	3.2
SITE HEIGHT (FEET)	60.4	73.0	68.7	68.8	61.7	62.0
AVERAGE CROWN RATIO (%)	43	40	36	47	42	41
AVERAGE CROWN LENGTH (FT)	25.1	25.6	21.0	26.9	22.1	21.2
DEAD TREES PER ACRE	40	30	60	50	170	20
DEAD BASAL AREA (SQ. FT/A)	21.7	12.5	20.6	17.1	47.7	3.1
DEAD TOTAL VOLUME (CU. FT/A)	55.8	36.8	57.3	48.4	123.9	9.4
6 YEARS AFTER TREATMENT (1988)						
LIVE TREES PER ACRE	300	300	430	240	370	420
LIVE BASAL AREA (SQ. FT/A)	162.7	155.6	158.1	131.6	149.9	158.1
LIVE TOTAL VOLUME (CU. FT/A)	393.2	413.2	386.2	315.2	326.2	358.2
CROWN COMPETITION FACTOR	172	173	176	141	165	177
RELATIVE DENSITY INDEX	51.5	49.8	55.2	41.6	51.1	54.8
MEAN DIAMETER (IN)	10.0	9.8	8.2	10.0	8.6	8.3
SITE HEIGHT (FEET)	71.1	74.9	70.0	70.7	63.3	63.5
DEAD TREES PER ACRE	50	40	100	60	170	20
DEAD BASAL AREA (SQ. FT/A)	22.2	13.6	33.4	22.4	47.7	3.1
DEAD TOTAL VOLUME (CU. FT/A)	56.5	38.8	96.2	61.1	123.9	9.4
8 YEARS AFTER TREATMENT (1990)						
LIVE TREES PER ACRE	300	290	430	230	370	390
LIVE BASAL AREA (SQ. FT/A)	172.7	162.3	165.3	136.2	159.1	157.0
LIVE TOTAL VOLUME (CU. FT/A)	428.7	440.3	412.4	335.0	355.5	361.4
CROWN COMPETITION FACTOR	181	180	182	147	173	175
RELATIVE DENSITY INDEX	53.9	51.0	57.1	42.2	53.4	53.5
MEAN DIAMETER (IN)	10.3	10.1	8.4	10.4	8.9	8.6
SITE HEIGHT (FEET)	73.5	76.6	71.9	72.7	65.3	65.0
AVERAGE CROWN RATIO (%)	47	41	38	49	44	42
AVERAGE CROWN LENGTH (FT)	29.2	28.1	23.3	29.8	24.7	22.7
DEAD TREES PER ACRE	50	50	100	70	170	50
DEAD BASAL AREA (SQ. FT/A)	22.2	14.2	33.4	26.8	47.7	10.5
DEAD TOTAL VOLUME (CU. FT/A)	56.5	40.1	96.2	71.2	123.9	28.1

PLOT SUMMARY REPORT

INSTALLATION 272 INDIAN CREEK
 REGION: MONTANA OWNERSHIP: CHAMPION
 LEGAL DESCRIPTION: T25N R27W SECTION 5 MERIDIAN: PRINCIPAL

PLOT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1982)	0#N	200#N	400#N	400#N	200#N	0#N
SECOND TREATMENT (1988)	N+K	NONE	N+K	200#N	N+K	NONE

MEASUREMENTAL CHARACTERISTICS:

AT TIME OF TREATMENT (1982)

STAND AGE = 57

LIVE TREES PER ACRE	690	640	560	530	640	620
LIVE BASAL AREA (SQ. FT/A)	143.2	138.3	122.3	129.7	129.3	144.8
LIVE TOTAL VOLUME (CU. FT/A)	3126	3257	2610	2930	3013	3420
CROWN COMPETITION FACTOR	189	176	156	164	168	182
RELATIVE DENSITY INDEX	57.7	55.1	48.6	50.1	52.4	56.6
MEAN DIAMETER (IN)	6.2	6.3	6.3	6.7	6.1	6.5
SITE HEIGHT (FEET)	64.9	66.0	62.0	62.7	61.7	65.2
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	83.6	73.6	77.2	83.8	71.5	71.4
GRAND FIR	1.6	0.0	0.8	0.0	0.7	1.6
WESTERN LARCH	9.5	15.4	11.9	7.0	1.8	4.0
LODGEPOLE PINE	5.0	11.1	5.5	7.0	26.0	22.0
PONDEROSA PINE	0.0	0.0	3.2	1.3	0.0	0.0
ENGELMANN SPRUCE	0.3	0.0	1.4	1.0	0.0	0.8

2 YEARS AFTER TREATMENT (1984)

LIVE TREES PER ACRE	690	610	560	530	630	620
LIVE BASAL AREA (SQ. FT/A)	147.8	138.1	129.8	137.8	135.8	151.3
CROWN COMPETITION FACTOR	194	177	164	173	175	189
RELATIVE DENSITY INDEX	59.0	54.4	50.8	52.4	54.2	58.5
MEAN DIAMETER (IN)	6.3	6.4	6.5	6.9	6.3	6.7
DEAD TREES PER ACRE	0	30	0	0	10	0
DEAD BASAL AREA (SQ. FT/A)	0.0	9.9	0.0	0.0	1.1	0.0

4 YEARS AFTER TREATMENT (1986)

LIVE TREES PER ACRE	680	550	470	420	490	540
LIVE BASAL AREA (SQ. FT/A)	151.9	139.2	118.8	127.0	111.3	133.1
LIVE TOTAL VOLUME (CU. FT/A)	3442	3393	2663	3046	2570	3118
CROWN COMPETITION FACTOR	197	174	148	157	147	169
RELATIVE DENSITY INDEX	60.0	53.3	45.5	46.5	43.3	51.3
MEAN DIAMETER (IN)	6.4	6.8	6.8	7.4	6.4	6.7
SITE HEIGHT (FEET)	67.2	69.7	66.4	67.3	65.9	68.8
AVERAGE CROWN RATIO (%)	31	34	41	33	32	33
AVERAGE CROWN LENGTH (FT)	15.4	19.0	20.8	18.4	16.5	17.2
DEAD TREES PER ACRE	10	90	90	110	150	80
DEAD BASAL AREA (SQ. FT/A)	1.2	18.5	19.3	19.1	33.4	24.0
DEAD TOTAL VOLUME (CU. FT/A)	24	474	425	430	920	719

6 YEARS AFTER TREATMENT (1988)

LIVE TREES PER ACRE	660	540	440	390	480	530
LIVE BASAL AREA (SQ. FT/A)	151.2	145.5	121.8	127.6	118.1	137.6
LIVE TOTAL VOLUME (CU. FT/A)	3469	3606	2795	3102	2767	3268
CROWN COMPETITION FACTOR	197	181	148	157	154	173
RELATIVE DENSITY INDEX	59.4	54.9	45.6	45.8	45.6	52.4
MEAN DIAMETER (IN)	6.5	7.0	7.1	7.7	6.7	6.9
SITE HEIGHT (FEET)	68.8	71.0	68.1	69.2	67.8	70.6
DEAD TREES PER ACRE	30	100	120	140	160	90
DEAD BASAL AREA (SQ. FT/A)	6.2	19.4	24.1	25.8	34.1	25.2
DEAD TOTAL VOLUME (CU. FT/A)	168	500	530	621	932	751

8 YEARS AFTER TREATMENT (1990)

LIVE TREES PER ACRE	640	520	430	390	460	520
LIVE BASAL AREA (SQ. FT/A)	158.8	151.2	129.2	137.0	124.7	142.9
LIVE TOTAL VOLUME (CU. FT/A)	3730	3820	3045	3408	2974	3491
CROWN COMPETITION FACTOR	205	186	155	167	160	179
RELATIVE DENSITY INDEX	61.1	55.9	47.4	48.4	47.0	53.6
MEAN DIAMETER (IN)	6.7	7.3	7.4	8.0	7.0	7.1
SITE HEIGHT (FEET)	70.5	72.9	72.8	71.4	69.8	72.5
AVERAGE CROWN RATIO (%)	31	36	45	38	37	35
AVERAGE CROWN LENGTH (FT)	16.6	21.1	24.3	22.9	20.0	19.4
DEAD TREES PER ACRE	50	120	130	140	180	100
DEAD BASAL AREA (SQ. FT/A)	7.5	21.5	24.9	25.8	37.9	26.3
DEAD TOTAL VOLUME (CU. FT/A)	190	546	546	621	1047	785

PLCT SUMMARY REPORT

INSTALLATION 273 LITTLE BEAVER CREEK
 REGION: NORTHERN IDAHO OWNERSHIP: POTLATCH
 LEGAL DESCRIPTION: T37N R5E SECTION 1 MERIDIAN: BOISE

PLCT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1982)	200#N	0#N	400#N	200#N	0#N	400#N
SECOND TREATMENT (1988)	NCNE	N+K	NONE	N+K	NONE	N+K

MENSURATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1982)	STAND AGE = 36					
LIVE TREES PER ACRE	420	420	570	400	350	320
LIVE BASAL AREA (SQ. FT/A)	127.8	144.1	159.5	178.7	143.1	121.0
LIVE TOTAL VOLUME (CU. FT/A)	2642	3291	3416	4803	3139	2443
CROWN COMPETITION FACTOR	169	190	207	205	179	143
RELATIVE DENSITY INDEX	46.3	51.2	59.6	59.4	48.6	41.9
MEAN DIAMETER (IN)	7.5	7.9	7.2	9.0	8.7	8.3
SITE HEIGHT (FEET)	55.7	62.6	64.9	85.4	59.3	55.0
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	65.8	74.4	65.4	73.2	75.9	80.0
GRAND FIR	21.3	19.3	14.2	2.7	10.0	2.6
WESTERN RED CEDAR	13.0	6.3	10.9	3.3	10.2	7.2
WESTERN LARCH	0.0	0.0	9.5	20.9	3.8	10.1

2 YEARS AFTER TREATMENT (1984)

LIVE TREES PER ACRE	400	420	570	400	350	320
LIVE BASAL AREA (SQ. FT/A)	144.8	164.7	187.4	202.4	162.5	145.4
CROWN COMPETITION FACTOR	193	212	239	232	200	175
RELATIVE DENSITY INDEX	50.7	56.5	67.3	65.2	53.5	48.1
MEAN DIAMETER (IN)	8.1	8.5	7.8	9.6	9.2	9.1
DEAD TREES PER ACRE	20	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	5.1	0.0	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1986)

LIVE TREES PER ACRE	380	420	560	390	340	320
LIVE BASAL AREA (SQ. FT/A)	156.4	179.7	205.9	215.3	175.3	166.1
LIVE TOTAL VOLUME (CU. FT/A)	3578	4471	4801	6023	4191	3710
CROWN COMPETITION FACTOR	205	234	259	242	212	197
RELATIVE DENSITY INDEX	53.1	60.4	71.9	67.9	56.2	53.2
MEAN DIAMETER (IN)	8.7	8.9	8.2	10.1	9.7	9.8
SITE HEIGHT (FEET)	60.7	69.1	64.3	73.5	64.7	61.6
AVERAGE CROWN RATIO (%)	55	53	53	52	56	55
AVERAGE CROWN LENGTH (FT)	30.8	31.6	30.0	32.1	33.4	31.8
DEAD TREES PER ACRE	40	0	10	10	10	0
DEAD BASAL AREA (SQ. FT/A)	11.8	0.0	3.6	4.9	2.5	0.0
DEAD TOTAL VOLUME (CU. FT/A)	254	0	83	114	49	0

6 YEARS AFTER TREATMENT (1988)

LIVE TREES PER ACRE	380	420	530	380	340	310
LIVE BASAL AREA (SQ. FT/A)	172.3	195.6	214.8	214.4	191.5	181.7
LIVE TOTAL VOLUME (CU. FT/A)	4120	5035	5183	5789	4745	4224
CROWN COMPETITION FACTOR	224	250	267	246	227	208
RELATIVE DENSITY INDEX	57.1	64.3	73.1	67.2	60.1	50.4
MEAN DIAMETER (IN)	9.1	9.2	8.6	10.2	10.2	10.4
SITE HEIGHT (FEET)	63.2	71.3	66.9	76.4	67.8	64.2
DEAD TREES PER ACRE	40	0	40	20	10	10
DEAD BASAL AREA (SQ. FT/A)	11.8	0.0	13.8	23.4	2.5	2.9
DEAD TOTAL VOLUME (CU. FT/A)	254	0	302	936	49	66

8 YEARS AFTER TREATMENT (1990)

LIVE TREES PER ACRE	380	420	530	380	330	310
LIVE BASAL AREA (SQ. FT/A)	192.4	215.6	233.3	231.6	202.8	201.8
LIVE TOTAL VOLUME (CU. FT/A)	4807	5764	5820	6403	5215	4895
CROWN COMPETITION FACTOR	243	268	287	259	235	226
RELATIVE DENSITY INDEX	62.0	69.2	77.8	71.2	62.2	61.0
MEAN DIAMETER (IN)	9.6	9.7	9.0	10.6	10.6	10.9
SITE HEIGHT (FEET)	66.1	75.1	69.4	79.1	70.0	65.3
AVERAGE CROWN RATIO (%)	54	43	45	40	43	45
AVERAGE CROWN LENGTH (FT)	33.2	27.9	28.0	26.4	28.3	28.8
DEAD TREES PER ACRE	40	0	40	20	20	10
DEAD BASAL AREA (SQ. FT/A)	11.8	0.0	13.8	23.4	6.9	2.9
DEAD TOTAL VOLUME (CU. FT/A)	254	0	302	936	148	66

PLCT SUMMARY REPORT

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INSTALLATION 274 CAREYWOOD CREEK
 REGION: NORTHERN IDAHO OWNERSHIP: IDL
 LEGAL DESCRIPTION: T54N R2W SECTION 16 MERIDIAN: BOISE

PLCT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1982)	200#N	0#N	400#N	200#N	400#N	0#N
SECOND TREATMENT (1988)	NONE	N+K	N+K	N+K	NONE	NONE

MEASUREMENTAL CHARACTERISTICS:

AT TIME OF TREATMENT (1982)	STAND AGE = 00					
LIVE TREES PER ACRE	120	130	160	190	220	190
LIVE BASAL AREA (SQ. FT/A)	141.3	121.2	142.5	127.6	131.8	137.4
LIVE TOTAL VOLUME (CU. FT/A)	4196	3723	4182	3685	3620	3918
CROWN COMPETITION FACTOR	134	122	144	141	147	149
RELATIVE DENSITY INDEX	36.9	33.5	39.9	38.3	40.7	40.5
MEAN DIAMETER (IN)	14.7	13.1	12.8	11.1	10.5	11.5
SITE HEIGHT (FEET)	83.9	93.5	86.6	83.6	78.3	79.7
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	100.0	89.2	100.0	94.4	97.4	97.5
GRAND FIR	0.0	0.0	0.0	2.4	0.0	0.0
WESTERN LARCH	0.0	10.8	0.0	3.2	0.0	2.5
LOGSPOLE PINE	0.0	0.0	0.0	0.0	2.5	0.0

2 YEARS AFTER TREATMENT (1984)

LIVE TREES PER ACRE	120	130	150	190	220	190
LIVE BASAL AREA (SQ. FT/A)	152.0	126.3	133.8	140.7	143.5	147.6
CROWN COMPETITION FACTOR	142	126	135	152	156	156
RELATIVE DENSITY INDEX	38.9	34.6	37.4	41.2	43.4	42.7
MEAN DIAMETER (IN)	15.2	13.3	12.8	11.6	10.9	11.9
DEAD TREES PER ACRE	0	0	10	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	19.6	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1986)

LIVE TREES PER ACRE	120	130	140	190	210	190
LIVE BASAL AREA (SQ. FT/A)	161.0	130.8	139.9	151.1	151.7	156.1
LIVE TOTAL VOLUME (CU. FT/A)	5003	4119	4258	4483	4366	4595
CROWN COMPETITION FACTOR	148	129	137	161	163	163
RELATIVE DENSITY INDEX	40.6	35.5	38.0	43.5	44.7	44.0
MEAN DIAMETER (IN)	15.7	13.6	13.5	12.1	11.5	12.3
SITE HEIGHT (FEET)	88.5	92.9	89.4	87.1	83.2	83.5
AVERAGE CROWN RATIO (%)	50	40	49	40	39	39
AVERAGE CROWN LENGTH (FT)	42.6	32.5	37.6	30.8	28.4	30.1
DEAD TREES PER ACRE	0	0	20	0	10	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	22.0	0.0	1.5	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	694	0	44	0

6 YEARS AFTER TREATMENT (1988)

LIVE TREES PER ACRE	120	130	140	190	210	190
LIVE BASAL AREA (SQ. FT/A)	167.8	134.8	147.5	158.4	160.4	162.9
LIVE TOTAL VOLUME (CU. FT/A)	5320	4306	4585	4770	4605	4896
CROWN COMPETITION FACTOR	152	132	143	167	169	168
RELATIVE DENSITY INDEX	41.9	36.3	39.6	45.0	46.6	46.0
MEAN DIAMETER (IN)	16.0	13.8	13.9	12.4	11.8	12.5
SITE HEIGHT (FEET)	90.7	94.5	91.5	88.5	85.1	85.4
DEAD TREES PER ACRE	0	0	20	0	10	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	22.0	0.0	1.5	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	694	0	44	0

8 YEARS AFTER TREATMENT (1990)

LIVE TREES PER ACRE	120	120	140	190	200	180
LIVE BASAL AREA (SQ. FT/A)	175.6	129.8	155.6	166.7	166.8	166.7
LIVE TOTAL VOLUME (CU. FT/A)	5691	4241	4945	5118	5005	5120
CROWN COMPETITION FACTOR	157	125	148	173	172	169
RELATIVE DENSITY INDEX	43.4	34.6	41.2	46.8	47.4	46.2
MEAN DIAMETER (IN)	16.4	14.1	14.3	12.7	12.4	13.0
SITE HEIGHT (FEET)	93.0	96.7	93.6	90.7	86.7	87.1
AVERAGE CROWN RATIO (%)	48	42	47	37	37	36
AVERAGE CROWN LENGTH (FT)	42.5	36.5	37.6	29.9	28.5	29.0
DEAD TREES PER ACRE	0	10	20	0	20	10
DEAD BASAL AREA (SQ. FT/A)	0.0	10.1	22.0	0.0	3.1	3.2
DEAD TOTAL VOLUME (CU. FT/A)	0	302	694	0	83	73

PLOT SUMMARY REPORT

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INSTALLATION 275 SMITH LAKE

REGION: NORTHERN IDAHO

OWNERSHIP: IDL

LEGAL DESCRIPTION: T63N R1E SECTION 36 MERIDIAN: BOISE

PLOT NUMBER

INITIAL TREATMENT (1982)

SECOND TREATMENT (1988)

1	2	3	4	5	6
400#N	200#N	0#N	200#N	400#N	0#N
NONE	200#N	N+K	N+K	N+K	NONE

SENSURATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1982)

STAND AGE = 75

LIVE TREES PER ACRE	290	380	310	290	340	320
LIVE BASAL AREA (SQ. FT/A)	161.3	203.9	198.1	170.8	146.2	158.1
LIVE TOTAL VOLUME (CU. FT/A)	4197	5553	5620	4880	3536	3883
CROWN COMPETITION FACTOR	178	230	213	193	176	182
RELATIVE DENSITY INDEX	50.8	64.8	60.2	53.0	49.1	51.3
MEAN DIAMETER (IN)	10.1	9.9	10.8	10.4	8.9	9.5
SITE HEIGHT (FEET)	77.3	80.7	85.7	81.1	71.6	67.0
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	93.3	100.0	100.0	96.7	100.0	88.8
WESTERN LARCH	0.6	0.0	0.0	2.1	0.0	0.0
PONDEROSA PINE	6.1	0.0	0.0	1.2	0.0	11.2

2 YEARS AFTER TREATMENT (1984)

LIVE TREES PER ACRE	290	380	310	290	340	320
LIVE BASAL AREA (SQ. FT/A)	174.0	214.7	208.1	181.5	157.4	166.8
CROWN COMPETITION FACTOR	190	240	227	201	183	189
RELATIVE DENSITY INDEX	53.7	67.3	62.5	55.4	51.9	53.3
MEAN DIAMETER (IN)	10.5	10.2	11.1	10.7	9.2	9.8
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1986)

LIVE TREES PER ACRE	290	380	310	290	340	320
LIVE BASAL AREA (SQ. FT/A)	185.8	224.5	217.4	191.3	169.8	174.8
LIVE TOTAL VOLUME (CU. FT/A)	5093	6348	6353	5686	4332	4463
CROWN COMPETITION FACTOR	199	249	234	211	199	197
RELATIVE DENSITY INDEX	56.4	69.6	64.5	57.7	54.9	55.3
MEAN DIAMETER (IN)	10.8	10.4	11.3	11.0	9.6	10.0
SITE HEIGHT (FEET)	81.4	84.1	87.9	85.0	76.2	71.0
AVERAGE CROWN RATIO (%)	48	42	41	40	44	45
AVERAGE CROWN LENGTH (FT)	30.6	29.5	29.9	30.5	27.0	27.5
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	1	0	0	1	0

6 YEARS AFTER TREATMENT (1988)

LIVE TREES PER ACRE	290	380	310	290	340	320
LIVE BASAL AREA (SQ. FT/A)	194.2	229.9	223.3	196.8	173.1	179.6
LIVE TOTAL VOLUME (CU. FT/A)	5444	6619	6646	5963	4635	4671
CROWN COMPETITION FACTOR	205	253	239	216	206	201
RELATIVE DENSITY INDEX	58.3	70.8	65.9	58.9	56.9	56.4
MEAN DIAMETER (IN)	11.1	10.5	11.5	11.2	9.8	10.1
SITE HEIGHT (FEET)	83.4	85.6	90.1	86.9	77.8	72.3
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	1	0	0	1	0

8 YEARS AFTER TREATMENT (1990)

LIVE TREES PER ACRE	290	380	300	290	340	320
LIVE BASAL AREA (SQ. FT/A)	205.1	237.9	227.4	204.3	187.7	185.7
LIVE TOTAL VOLUME (CU. FT/A)	5859	6977	6925	6307	4978	4902
CROWN COMPETITION FACTOR	213	259	239	223	214	206
RELATIVE DENSITY INDEX	60.8	72.7	66.2	60.6	59.2	57.8
MEAN DIAMETER (IN)	11.4	10.7	11.8	11.4	10.1	10.3
SITE HEIGHT (FEET)	84.7	87.9	91.7	88.7	79.8	73.3
AVERAGE CROWN RATIO (%)	43	35	38	35	40	42
AVERAGE CROWN LENGTH (FT)	28.9	25.0	29.0	27.7	25.8	26.0
DEAD TREES PER ACRE	0	0	10	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	5.6	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	2	154	0	0	0

PLOT SUMMARY REPORT

INSTALLATION 276 MILL CREEK
 REGION: CENTRAL IDAHO OWNERSHIP: BOISE CASCADE
 LEGAL DESCRIPTION: T19N R1E SECTION 34 MERIDIAN: BOISE

PLOT NUMBER

	1	2	3	4	5	6
INITIAL TREATMENT (1982)	400#N	200#N	0#N	0#N	200#N	400#N
SECOND TREATMENT (1988)	NCNE	NONE	NONE	N+K	200#N	200#N

MEASUREMENTAL CHARACTERISTICS:

AT TIME OF TREATMENT (1982)

STAND AGE = 01

LIVE TREES PER ACRE	250	300	250	200	210	230
LIVE BASAL AREA (SQ. FT/A)	151.7	164.9	145.0	152.8	139.0	135.4
LIVE TOTAL VOLUME (CU. FT/A)	3431	3830	3268	3689	3526	3428
CROWN COMPETITION FACTOR	171	182	162	156	142	153
RELATIVE DENSITY INDEX	46.7	52.0	45.1	44.4	41.9	42.0
MEAN DIAMETER (IN)	10.5	10.0	10.3	11.8	11.0	10.4
SITE HEIGHT (FEET)	62.2	67.5	63.3	70.8	71.0	72.2
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	93.9	83.0	91.8	85.0	76.0	86.9
PONDEROSA PINE	6.1	17.0	8.2	15.0	24.0	13.1

2 YEARS AFTER TREATMENT (1984)

LIVE TREES PER ACRE	250	300	250	200	210	230
LIVE BASAL AREA (SQ. FT/A)	160.0	173.5	151.8	162.4	147.5	147.7
CROWN COMPETITION FACTOR	179	190	168	164	150	163
RELATIVE DENSITY INDEX	48.6	54.1	46.7	46.5	43.8	44.8
MEAN DIAMETER (IN)	10.8	10.3	10.5	12.2	11.3	10.8
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1986)

LIVE TREES PER ACRE	250	300	250	200	210	230
LIVE BASAL AREA (SQ. FT/A)	170.4	184.0	160.4	173.3	157.0	160.3
LIVE TOTAL VOLUME (CU. FT/A)	4080	4580	3828	4419	4249	4293
CROWN COMPETITION FACTOR	189	198	175	173	157	174
RELATIVE DENSITY INDEX	51.0	56.5	48.7	48.8	45.9	47.7
MEAN DIAMETER (IN)	11.2	10.6	10.8	12.6	11.7	11.3
SITE HEIGHT (FEET)	66.2	72.5	66.6	74.8	75.9	76.3
AVERAGE CROWN RATIO (%)	49	45	49	59	50	55
AVERAGE CROWN LENGTH (FT)	30.6	27.7	30.0	38.3	33.0	36.3
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	3	0	0	0	0	0

6 YEARS AFTER TREATMENT (1988)

LIVE TREES PER ACRE	250	250	250	200	200	230
LIVE BASAL AREA (SQ. FT/A)	177.0	170.2	167.4	181.6	159.8	170.2
LIVE TOTAL VOLUME (CU. FT/A)	4344	4358	4103	4782	4429	4692
CROWN COMPETITION FACTOR	193	186	183	179	159	182
RELATIVE DENSITY INDEX	52.4	50.9	50.3	50.6	45.9	49.9
MEAN DIAMETER (IN)	11.4	11.2	11.1	12.9	12.1	11.6
SITE HEIGHT (FEET)	68.2	74.1	68.4	77.2	78.0	78.6
DEAD TREES PER ACRE	0	50	0	0	10	0
DEAD BASAL AREA (SQ. FT/A)	0.0	18.0	0.0	0.0	4.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	3	435	0	0	80	0

8 YEARS AFTER TREATMENT (1990)

LIVE TREES PER ACRE	230	230	250	200	190	230
LIVE BASAL AREA (SQ. FT/A)	174.3	163.8	175.2	192.6	156.4	180.9
LIVE TOTAL VOLUME (CU. FT/A)	4427	4296	4425	5243	4429	5113
CROWN COMPETITION FACTOR	193	182	190	187	157	191
RELATIVE DENSITY INDEX	50.8	48.5	52.0	52.8	44.6	52.2
MEAN DIAMETER (IN)	11.8	11.4	11.3	13.3	12.3	12.0
SITE HEIGHT (FEET)	70.0	76.9	70.6	79.8	79.9	80.8
AVERAGE CROWN RATIO (%)	42	38	42	50	42	48
AVERAGE CROWN LENGTH (FT)	28.2	25.9	27.2	35.0	29.8	33.3
DEAD TREES PER ACRE	20	70	0	0	20	0
DEAD BASAL AREA (SQ. FT/A)	11.4	32.1	0.0	0.0	15.4	0.0
DEAD TOTAL VOLUME (CU. FT/A)	237	795	0	0	426	0

PLOT SUMMARY REPORT

INSTALLATION 277 LITTLE MUD CREEK #2
 REGION: CENTRAL IDAHO OWNERSHIP: BOISE CASCADE
 LEGAL DESCRIPTION: T20N R1E SECTION 34 MERIDIAN: BOISE

PLOT NUMBER

	1	2	3	4	5	6
INITIAL TREATMENT (1982)	200#N	400#N	0#N	0#N	400#N	200#N
SECOND TREATMENT (1988)	NONE	N+K	NONE	N+K	NONE	N+K

MEASUREMENTAL CHARACTERISTICS:

AT TIME OF TREATMENT (1982)

STAND AGE = 63

LIVE TREES PER ACRE	290	260	300	200	210	160
LIVE BASAL AREA (SQ. FT/A)	181.7	158.3	181.4	107.4	113.2	91.7
LIVE TOTAL VOLUME (CU. FT/A)	453.2	386.8	435.1	213.7	242.3	183.0
CROWN COMPETITION FACTOR	194	171	201	115	127	101
RELATIVE DENSITY INDEX	55.5	48.7	55.9	34.1	35.9	28.6
MEAN DIAMETER (IN)	10.7	10.6	10.5	9.9	9.9	10.3
SITE HEIGHT (FEET)	69.7	65.8	71.1	52.8	62.8	57.7
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	70.3	76.1	83.1	65.9	80.3	90.0
PONDEROSA PINE	29.7	23.9	16.9	34.1	19.7	10.0

2 YEARS AFTER TREATMENT (1984)

LIVE TREES PER ACRE	290	260	300	200	210	160
LIVE BASAL AREA (SQ. FT/A)	194.7	170.0	193.8	118.3	123.9	104.3
CROWN COMPETITION FACTOR	205	180	213	125	139	114
RELATIVE DENSITY INDEX	58.4	51.4	58.7	36.6	38.4	31.5
MEAN DIAMETER (IN)	11.1	10.9	10.9	10.4	10.4	10.9
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1986)

LIVE TREES PER ACRE	290	260	300	200	210	160
LIVE BASAL AREA (SQ. FT/A)	210.4	182.1	207.7	129.7	135.2	110.1
LIVE TOTAL VOLUME (CU. FT/A)	559.8	474.0	554.3	282.4	315.4	247.3
CROWN COMPETITION FACTOR	218	192	225	136	149	125
RELATIVE DENSITY INDEX	62.0	54.1	61.9	39.3	41.0	34.2
MEAN DIAMETER (IN)	11.5	11.3	11.3	10.9	10.9	11.5
SITE HEIGHT (FEET)	74.3	70.7	76.4	58.4	66.9	62.2
AVERAGE CROWN RATIO (%)	50	57	48	59	61	71
AVERAGE CROWN LENGTH (FT)	33.9	37.7	32.5	32.0	35.4	38.2
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	0	0	0

6 YEARS AFTER TREATMENT (1988)

LIVE TREES PER ACRE	290	260	300	200	200	160
LIVE BASAL AREA (SQ. FT/A)	219.8	190.0	217.2	138.8	140.0	125.0
LIVE TOTAL VOLUME (CU. FT/A)	602.0	509.5	595.1	311.4	334.0	275.0
CROWN COMPETITION FACTOR	225	199	232	144	153	134
RELATIVE DENSITY INDEX	64.0	55.8	64.0	41.3	41.6	36.1
MEAN DIAMETER (IN)	11.8	11.6	11.5	11.3	11.3	12.0
SITE HEIGHT (FEET)	76.6	73.1	78.8	60.1	68.6	64.3
DEAD TREES PER ACRE	0	0	0	0	10	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	2.7	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	0	67	0

8 YEARS AFTER TREATMENT (1990)

LIVE TREES PER ACRE	290	260	300	180	180	160
LIVE BASAL AREA (SQ. FT/A)	232.2	200.8	229.1	135.9	135.0	137.0
LIVE TOTAL VOLUME (CU. FT/A)	653.7	551.4	644.0	310.6	321.5	310.5
CROWN COMPETITION FACTOR	235	208	241	143	148	143
RELATIVE DENSITY INDEX	66.7	58.2	66.6	39.6	39.4	38.7
MEAN DIAMETER (IN)	12.1	11.9	11.8	11.8	11.7	12.5
SITE HEIGHT (FEET)	78.5	74.8	81.1	62.1	72.2	66.6
AVERAGE CROWN RATIO (%)	44	46	43	56	57	60
AVERAGE CROWN LENGTH (FT)	31.7	32.1	30.5	32.4	34.6	34.9
DEAD TREES PER ACRE	0	0	0	20	30	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	14.8	17.4	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	353	475	0

PLOT SUMMARY REPORT

INSTALLATION 278 WET GULCH

REGION: CENTRAL IDAHO

OWNERSHIP: ECISE CASCADE

LEGAL DESCRIPTION: T7N R5E SECTION 19

MERIDIAN: BOISE

PLOT NUMBER

	1	2	3	4	5	6
INITIAL TREATMENT (1982)	400#N	0#N	200#N	0#N	200#N	400#N
SECOND TREATMENT (1988)	NONE	N+K	N+K	NONE	200#N	N+K

MENSURATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1982)

STAND AGE = 92

LIVE TREES PER ACRE	180	170	140	190	200	210
LIVE BASAL AREA (SQ. FT/A)	93.2	92.1	83.3	103.1	119.6	126.2
LIVE TOTAL VOLUME (CU. FT/A)	2211	2308	2043	2939	3172	3499
CROWN COMPETITION FACTOR	106	97	91	117	133	143
RELATIVE DENSITY INDEX	29.8	29.2	25.8	32.6	37.0	38.9
MEAN DIAMETER (IN)	9.7	10.0	10.4	10.0	10.5	10.5
SITE HEIGHT (FEET)	74.1	70.0	70.8	81.6	78.9	82.9
SPECIES COMPOSITION (% OF 3A)						
DOUGLAS-FIR	96.3	74.5	81.9	90.0	100.0	96.3
PONDEROSA PINE	3.7	25.5	18.1	10.0	0.0	3.7

2 YEARS AFTER TREATMENT (1984)

LIVE TREES PER ACRE	180	170	140	190	200	210
LIVE BASAL AREA (SQ. FT/A)	103.3	99.0	91.2	111.0	130.3	137.3
CROWN COMPETITION FACTOR	115	103	97	124	142	152
RELATIVE DENSITY INDEX	32.3	30.8	27.6	34.5	39.4	41.5
MEAN DIAMETER (IN)	10.3	10.3	10.9	10.3	10.9	10.9
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1986)

LIVE TREES PER ACRE	180	170	140	190	200	200
LIVE BASAL AREA (SQ. FT/A)	112.8	106.7	98.7	119.3	141.5	142.3
LIVE TOTAL VOLUME (CU. FT/A)	2806	2761	2508	3476	3865	4075
CROWN COMPETITION FACTOR	124	110	104	130	152	154
RELATIVE DENSITY INDEX	34.4	32.6	29.3	36.4	41.9	42.1
MEAN DIAMETER (IN)	10.7	10.7	11.4	10.7	11.4	11.4
SITE HEIGHT (FEET)	78.1	72.6	73.8	84.0	83.0	87.0
AVERAGE CROWN RATIO (%)	50	42	50	38	46	40
AVERAGE CROWN LENGTH (FT)	30.4	26.3	30.1	28.0	30.9	29.7
DEAD TREES PER ACRE	0	0	0	0	0	10
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	4.9
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	2	0	143

6 YEARS AFTER TREATMENT (1988)

LIVE TREES PER ACRE	180	170	140	180	200	200
LIVE BASAL AREA (SQ. FT/A)	119.2	111.2	102.6	119.9	148.5	149.3
LIVE TOTAL VOLUME (CU. FT/A)	3029	2941	2673	3530	4120	4359
CROWN COMPETITION FACTOR	132	113	108	130	159	159
RELATIVE DENSITY INDEX	35.9	33.6	30.1	36.1	43.5	43.6
MEAN DIAMETER (IN)	11.0	10.9	11.6	11.0	11.7	11.7
SITE HEIGHT (FEET)	79.8	74.1	75.5	84.6	84.8	89.2
DEAD TREES PER ACRE	0	0	0	10	0	10
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	5.0	0.0	4.9
DEAD TOTAL VOLUME (CU. FT/A)	1	0	0	165	0	143

8 YEARS AFTER TREATMENT (1990)

LIVE TREES PER ACRE	180	170	130	180	200	200
LIVE BASAL AREA (SQ. FT/A)	125.3	117.5	102.8	125.2	156.0	156.6
LIVE TOTAL VOLUME (CU. FT/A)	3237	3166	2729	3738	4372	4650
CROWN COMPETITION FACTOR	136	119	106	134	167	166
RELATIVE DENSITY INDEX	37.3	35.0	29.6	37.3	45.1	45.2
MEAN DIAMETER (IN)	11.3	11.3	12.0	11.3	12.0	12.0
SITE HEIGHT (FEET)	81.2	75.6	70.6	85.9	86.5	91.1
AVERAGE CROWN RATIO (%)	53	49	52	43	53	45
AVERAGE CROWN LENGTH (FT)	33.9	32.4	33.1	32.9	37.1	34.5
DEAD TREES PER ACRE	0	0	10	10	0	10
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	3.9	5.0	0.0	4.9
DEAD TOTAL VOLUME (CU. FT/A)	1	0	85	165	3	143

PLOT SUMMARY REPORT

INSTALLATION 279 HENRY CREEK
 REGION: CENTRAL IDAHO OWNERSHIP: BOISE CASCADE
 LEGAL DESCRIPTION: T7N R5E SECTION 28 MERIDIAN: BOISE

PLOT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1982)	0#N	200#N	400#N	400#N	0#N	200#N
SECOND TREATMENT (1988)	N+K	NONE	200#N	NONE	NONE	200#N

MEASUREMENTAL CHARACTERISTICS:

AT TIME OF TREATMENT (1982)	STAND	AGE	=	79
LIVE TREES PER ACRE	180	150	230	270
LIVE BASAL AREA (SQ. FT/A)	129.4	122.6	118.6	181.8
LIVE TOTAL VOLUME (CU. FT/A)	3470	3585	2836	5385
CROWN COMPETITION FACTOR	137	125	129	187
RELATIVE DENSITY INDEX	38.2	35.0	38.0	54.5
MEAN DIAMETER (IN)	11.5	12.2	9.7	11.1
SITE HEIGHT (FEET)	75.5	82.4	66.0	86.5
SPECIES COMPOSITION (% OF BA)				
DOUGLAS-FIR	94.4	94.8	72.0	68.0
PONDEROSA PINE	5.6	5.2	28.0	32.0

2 YEARS AFTER TREATMENT (1984)

LIVE TREES PER ACRE	180	150	230	270	210	230
LIVE BASAL AREA (SQ. FT/A)	140.1	133.1	131.1	191.4	165.0	161.3
CROWN COMPETITION FACTOR	145	135	140	194	168	167
RELATIVE DENSITY INDEX	40.5	37.3	41.0	56.7	47.6	47.9
MEAN DIAMETER (IN)	11.9	12.8	10.2	11.4	12.0	11.3
DEAD TREES PER ACRE	0	0	0	0	0	10
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	4.1

4 YEARS AFTER TREATMENT (1986)

LIVE TREES PER ACRE	180	150	230	270	210	230
LIVE BASAL AREA (SQ. FT/A)	150.3	142.4	143.6	201.3	173.4	172.4
LIVE TOTAL VOLUME (CU. FT/A)	4201	4237	3659	6208	5135	5149
CROWN COMPETITION FACTOR	153	142	150	203	174	176
RELATIVE DENSITY INDEX	42.7	39.2	43.9	58.9	49.4	50.4
MEAN DIAMETER (IN)	12.4	13.2	10.7	11.7	12.3	11.7
SITE HEIGHT (FEET)	79.4	86.2	70.7	90.5	83.7	84.7
AVERAGE CROWN RATIO (%)	51	46	49	44	44	43
AVERAGE CROWN LENGTH (FT)	37.2	36.3	31.0	33.0	32.4	32.7
DEAD TREES PER ACRE	0	0	0	0	0	10
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	4.1
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	0	0	103

6 YEARS AFTER TREATMENT (1988)

LIVE TREES PER ACRE	180	150	220	260	210	220
LIVE BASAL AREA (SQ. FT/A)	156.3	147.9	149.3	200.1	179.7	172.7
LIVE TOTAL VOLUME (CU. FT/A)	4462	4532	3913	6294	5431	5301
CROWN COMPETITION FACTOR	157	146	154	198	173	176
RELATIVE DENSITY INDEX	44.0	40.3	44.7	58.0	50.8	49.9
MEAN DIAMETER (IN)	12.6	13.4	11.1	11.9	12.5	12.0
SITE HEIGHT (FEET)	81.4	88.0	72.5	92.3	85.6	86.9
DEAD TREES PER ACRE	0	0	10	10	0	20
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	3.0	7.9	0.0	9.5
DEAD TOTAL VOLUME (CU. FT/A)	0	0	73	238	0	239

8 YEARS AFTER TREATMENT (1990)

LIVE TREES PER ACRE	170	150	190	260	210	200
LIVE BASAL AREA (SQ. FT/A)	161.0	153.3	145.0	205.5	185.4	171.7
LIVE TOTAL VOLUME (CU. FT/A)	4711	4760	3898	6566	5717	5423
CROWN COMPETITION FACTOR	159	149	150	202	183	173
RELATIVE DENSITY INDEX	44.4	41.4	42.1	59.2	52.0	48.5
MEAN DIAMETER (IN)	13.2	13.7	11.8	12.0	12.7	12.5
SITE HEIGHT (FEET)	83.3	89.3	74.4	93.7	87.4	89.0
AVERAGE CROWN RATIO (%)	50	42	50	40	43	41
AVERAGE CROWN LENGTH (FT)	38.6	33.7	34.0	30.7	32.8	33.5
DEAD TREES PER ACRE	10	0	40	10	0	40
DEAD BASAL AREA (SQ. FT/A)	3.4	0.0	15.7	7.9	0.0	17.4
DEAD TOTAL VOLUME (CU. FT/A)	86	0	410	238	0	447

PLOT SUMMARY REPORT

INSTALLATION 280 SMITH CREEK

REGION: CENTRAL IDAHO

OWNERSHIP: IDL

LEGAL DESCRIPTION: T7N R5E SECTION 2 MERIDIAN: BOISE

PLOT NUMBER

INITIAL TREATMENT (1982)

SECOND TREATMENT (1988)

1	2	3	4	5	6
0#N	200#N	400#N	200#N	400#N	0#N
N+K	NONE	NONE	N+K	N+K	NONE

MEASUREMENTAL CHARACTERISTICS:

AT TIME OF TREATMENT (1982)

STAND AGE = 65

LIVE TREES PER ACRE	190	170	240	240	320	230
LIVE BASAL AREA (SQ. FT/A)	109.7	105.8	137.7	112.5	140.5	164.4
LIVE TOTAL VOLUME (CU. FT/A)	2668	2435	3266	2662	3485	4558
CROWN COMPETITION FACTOR	122	114	150	124	149	170
RELATIVE DENSITY INDEX	34.2	32.4	43.0	36.9	46.9	48.6
MEAN DIAMETER (IN)	10.3	10.7	10.3	9.3	9.0	11.4
SITE HEIGHT (FEET)	65.0	66.1	64.0	66.6	68.6	75.6
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	76.3	83.4	77.6	72.2	59.1	70.6
PONDEROSA PINE	23.7	16.6	22.4	27.8	40.9	29.4

2 YEARS AFTER TREATMENT (1984)

LIVE TREES PER ACRE	190	170	240	240	320	230
LIVE BASAL AREA (SQ. FT/A)	120.6	118.7	152.1	125.9	154.5	173.8
CROWN COMPETITION FACTOR	131	125	162	139	165	178
RELATIVE DENSITY INDEX	36.7	35.3	46.3	40.2	50.4	50.7
MEAN DIAMETER (IN)	10.8	11.3	10.9	9.8	9.4	11.8
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1986)

LIVE TREES PER ACRE	180	170	240	240	320	230
LIVE BASAL AREA (SQ. FT/A)	117.4	130.7	164.1	137.5	168.0	184.4
LIVE TOTAL VOLUME (CU. FT/A)	2837	3152	4093	3443	4447	5329
CROWN COMPETITION FACTOR	131	134	172	148	175	186
RELATIVE DENSITY INDEX	35.5	37.9	49.0	43.0	53.6	53.0
MEAN DIAMETER (IN)	10.9	11.9	11.2	10.3	9.8	12.1
SITE HEIGHT (FEET)	65.5	69.9	68.0	71.6	74.0	79.3
AVERAGE CROWN RATIO (%)	48	54	50	49	47	49
AVERAGE CROWN LENGTH (FT)	30.5	32.7	31.3	29.5	28.2	34.6
DEAD TREES PER ACRE	10	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	12.2	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	383	0	1	0	0	0

6 YEARS AFTER TREATMENT (1988)

LIVE TREES PER ACRE	180	170	230	240	310	230
LIVE BASAL AREA (SQ. FT/A)	122.6	137.0	165.5	144.8	174.6	189.8
LIVE TOTAL VOLUME (CU. FT/A)	3028	3371	4210	3706	4745	5574
CROWN COMPETITION FACTOR	134	139	173	154	180	190
RELATIVE DENSITY INDEX	36.7	39.3	48.8	44.6	54.8	54.1
MEAN DIAMETER (IN)	11.2	12.1	11.5	10.5	10.2	12.3
SITE HEIGHT (FEET)	67.1	71.4	69.3	73.5	75.9	80.7
DEAD TREES PER ACRE	10	0	10	0	10	0
DEAD BASAL AREA (SQ. FT/A)	12.2	0.0	3.3	0.0	1.5	0.0
DEAD TOTAL VOLUME (CU. FT/A)	383	0	89	0	19	0

3 YEARS AFTER TREATMENT (1990)

LIVE TREES PER ACRE	180	170	230	230	290	230
LIVE BASAL AREA (SQ. FT/A)	130.2	144.9	171.8	149.6	172.6	194.8
LIVE TOTAL VOLUME (CU. FT/A)	3280	3635	4460	3913	4768	5817
CROWN COMPETITION FACTOR	141	146	177	158	177	194
RELATIVE DENSITY INDEX	38.4	41.0	50.2	45.3	53.4	55.2
MEAN DIAMETER (IN)	11.5	12.5	11.7	10.9	10.4	12.5
SITE HEIGHT (FEET)	68.4	72.5	70.7	75.2	77.7	82.0
AVERAGE CROWN RATIO (%)	50	55	45	50	47	49
AVERAGE CROWN LENGTH (FT)	32.4	35.0	29.0	31.5	29.3	35.2
DEAD TREES PER ACRE	10	0	10	10	30	0
DEAD BASAL AREA (SQ. FT/A)	12.2	0.0	3.3	4.1	12.4	0.0
DEAD TOTAL VOLUME (CU. FT/A)	383	0	89	100	339	0

PLOT SUMMARY REPORT

INSTALLATION 281 O'NEIL HILL
 REGION: NORTHERN IDAHO OWNERSHIP: POTLATCH
 LEGAL DESCRIPTION: T46N R1E SECTION 32 MERIDIAN: BOISE

PLOT NUMBER

	1	2	3	4	5	6
INITIAL TREATMENT (1982)	0#N	200#N	400#N	200#N	400#N	0#N
SECOND TREATMENT (1988)	NONE	N+K	N+K	NONE	NONE	N+K

MEASUREMENTAL CHARACTERISTICS:

AT TIME OF TREATMENT (1982)

STAND AGE = 44

LIVE TREES PER ACRE	470	400	320	560	510	610
LIVE BASAL AREA (SQ. FT/A)	207.9	183.2	193.5	223.9	228.2	206.8
LIVE TOTAL VOLUME (CU. FT/A)	5532	4467	4961	5857	5893	5133
CROWN COMPETITION FACTOR	246	212	208	276	273	252
RELATIVE DENSITY INDEX	69.3	60.5	59.6	76.5	75.3	73.7
MEAN DIAMETER (IN)	9.0	9.2	10.5	8.6	9.1	7.9
SITE HEIGHT (FEET)	77.9	67.4	74.9	75.2	77.2	73.3
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	82.8	91.1	97.0	100.0	89.6	85.8
GRAND FIR	10.2	4.9	3.0	0.0	4.5	2.1
WESTERN RED CEDAR	3.3	1.0	0.0	0.0	0.0	0.0
WESTERN HEMLOCK	0.0	0.0	0.0	0.0	2.0	0.0
WESTERN LARCH	0.0	0.0	0.0	0.0	3.9	12.2
LODGEPOLE PINE	3.7	2.9	0.0	0.0	0.0	0.0

2 YEARS AFTER TREATMENT (1984)

LIVE TREES PER ACRE	470	400	320	550	500	600
LIVE BASAL AREA (SQ. FT/A)	218.5	195.2	205.7	234.8	238.7	216.2
CROWN COMPETITION FACTOR	256	221	217	284	283	259
RELATIVE DENSITY INDEX	71.9	63.5	62.4	78.9	78.0	75.8
MEAN DIAMETER (IN)	9.2	9.5	10.9	8.8	9.4	8.1
DEAD TREES PER ACRE	0	0	0	10	10	10
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	1.0	1.0	1.1

4 YEARS AFTER TREATMENT (1986)

LIVE TREES PER ACRE	470	400	310	500	420	580
LIVE BASAL AREA (SQ. FT/A)	228.4	205.6	215.0	233.2	224.4	222.4
LIVE TOTAL VOLUME (CU. FT/A)	6451	5357	5907	6471	6257	5889
CROWN COMPETITION FACTOR	267	230	224	279	260	264
RELATIVE DENSITY INDEX	74.3	66.0	64.0	76.7	71.3	76.8
MEAN DIAMETER (IN)	9.4	9.7	11.3	9.3	9.9	8.4
SITE HEIGHT (FEET)	82.7	73.4	80.8	81.2	82.7	79.0
AVERAGE CROWN RATIO (%)	40	40	43	32	33	32
AVERAGE CROWN LENGTH (FT)	26.0	24.2	28.2	21.3	22.4	19.9
DEAD TREES PER ACRE	0	0	10	60	90	30
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	2.2	12.8	26.7	4.1
DEAD TOTAL VOLUME (CU. FT/A)	3	0	51	307	594	82

6 YEARS AFTER TREATMENT (1988)

LIVE TREES PER ACRE	470	390	310	500	460	580
LIVE BASAL AREA (SQ. FT/A)	240.9	217.1	228.9	245.9	236.7	234.6
LIVE TOTAL VOLUME (CU. FT/A)	6979	5848	6472	6999	6781	6396
CROWN COMPETITION FACTOR	281	238	234	291	270	277
RELATIVE DENSITY INDEX	77.4	63.3	67.1	79.8	73.3	79.9
MEAN DIAMETER (IN)	9.7	10.1	11.6	9.5	10.4	8.6
SITE HEIGHT (FEET)	85.2	76.3	82.8	83.7	85.9	81.3
DEAD TREES PER ACRE	0	10	10	60	110	30
DEAD BASAL AREA (SQ. FT/A)	0.0	1.2	2.2	12.8	29.4	4.1
DEAD TOTAL VOLUME (CU. FT/A)	3	19	51	307	642	82

8 YEARS AFTER TREATMENT (1990)

LIVE TREES PER ACRE	470	370	300	470	400	530
LIVE BASAL AREA (SQ. FT/A)	251.3	226.8	239.6	250.1	248.3	241.8
LIVE TOTAL VOLUME (CU. FT/A)	7507	6326	7052	7373	7370	6397
CROWN COMPETITION FACTOR	290	243	240	292	280	280
RELATIVE DENSITY INDEX	79.9	69.6	68.9	79.6	76.0	79.9
MEAN DIAMETER (IN)	9.9	10.6	12.1	9.9	10.7	9.1
SITE HEIGHT (FEET)	88.0	78.8	86.7	86.5	88.3	85.1
AVERAGE CROWN RATIO (%)	34	35	35	26	33	28
AVERAGE CROWN LENGTH (FT)	23.1	22.5	23.9	19.7	24.3	19.5
DEAD TREES PER ACRE	0	30	20	90	110	80
DEAD BASAL AREA (SQ. FT/A)	0.0	3.4	4.3	19.4	29.4	9.3
DEAD TOTAL VOLUME (CU. FT/A)	0	63	86	457	642	175

PLOT SUMMARY REPORT

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INSTALLATION 282 COOK MTN

REGION: CENTRAL WASHINGTON

LEGAL DESCRIPTION: T33N R24E SECTION 15

OWNERSHIP: WASHINGTON DNR

MERIDIAN: WILLAMETTE

PLOT NUMBER

INITIAL TREATMENT (1982)

SECOND TREATMENT (1988)

1	2	3	4	5	6
400#N	200#N	0#N	200#N	0#N	400#N
NONE	N+K	NONE	NONE	N+K	N+K

MENSURATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1982)

STAND AGE = 69

LIVE TREES PER ACRE	250	310	310	270	320	420
LIVE BASAL AREA (SQ. FT/A)	104.3	97.5	104.7	86.3	112.9	113.0
LIVE TOTAL VOLUME (CU. FT/A)	2662	2237	2273	1379	2663	2280
CROWN COMPETITION FACTOR	125	120	129	103	136	142
RELATIVE DENSITY INDEX	35.3	35.4	37.3	31.2	39.3	42.6
MEAN DIAMETER (IN)	8.8	7.6	7.9	7.7	8.0	7.0
SITE HEIGHT (FEET)	74.2	66.3	62.5	62.9	68.7	62.0
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	91.8	86.7	93.5	90.3	86.1	81.3
WESTERN LARCH	2.4	6.6	0.0	5.4	7.7	18.8
PONDEROSA PINE	5.7	6.8	6.5	3.8	6.3	0.0

2 YEARS AFTER TREATMENT (1984)

LIVE TREES PER ACRE	250	310	310	270	320	420
LIVE BASAL AREA (SQ. FT/A)	122.0	111.9	116.8	105.2	124.8	132.1
CROWN COMPETITION FACTOR	141	135	142	129	148	161
RELATIVE DENSITY INDEX	39.7	39.2	40.5	36.2	42.3	47.9
MEAN DIAMETER (IN)	9.5	8.1	8.3	8.4	8.5	7.6
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1986)

LIVE TREES PER ACRE	250	300	310	270	320	420
LIVE BASAL AREA (SQ. FT/A)	131.9	118.1	123.6	116.0	132.3	142.0
LIVE TOTAL VOLUME (CU. FT/A)	3553	2948	2799	2681	3234	3016
CROWN COMPETITION FACTOR	151	140	148	140	155	173
RELATIVE DENSITY INDEX	42.1	40.5	42.3	38.3	44.3	50.6
MEAN DIAMETER (IN)	9.8	8.5	8.5	8.9	8.7	7.9
SITE HEIGHT (FEET)	77.4	71.2	65.1	68.7	71.7	67.2
AVERAGE CROWN RATIO (%)	51	46	50	53	43	44
AVERAGE CROWN LENGTH (FT)	34.5	27.7	27.8	32.4	26.2	22.5
DEAD TREES PER ACRE	0	10	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	1.2	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	19	0	0	0	0

6 YEARS AFTER TREATMENT (1988)

LIVE TREES PER ACRE	240	300	310	270	320	420
LIVE BASAL AREA (SQ. FT/A)	136.4	124.2	130.8	125.2	139.2	150.2
LIVE TOTAL VOLUME (CU. FT/A)	3755	3186	3022	2975	3486	3265
CROWN COMPETITION FACTOR	155	147	157	149	163	182
RELATIVE DENSITY INDEX	42.7	42.1	44.1	41.2	46.6	52.8
MEAN DIAMETER (IN)	10.2	8.7	8.8	9.2	8.9	8.1
SITE HEIGHT (FEET)	79.8	74.0	67.0	70.9	73.8	69.0
DEAD TREES PER ACRE	10	10	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	4.0	1.2	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	107	19	0	0	0	0

8 YEARS AFTER TREATMENT (1990)

LIVE TREES PER ACRE	240	300	310	270	320	420
LIVE BASAL AREA (SQ. FT/A)	143.6	130.6	136.6	132.9	148.1	156.9
LIVE TOTAL VOLUME (CU. FT/A)	4017	3412	3210	3226	3768	3479
CROWN COMPETITION FACTOR	162	153	163	156	172	188
RELATIVE DENSITY INDEX	44.4	43.7	45.6	43.1	48.8	54.5
MEAN DIAMETER (IN)	10.5	8.9	9.0	9.5	9.2	8.3
SITE HEIGHT (FEET)	80.8	75.1	63.5	72.6	75.3	71.4
AVERAGE CROWN RATIO (%)	47	44	48	53	43	44
AVERAGE CROWN LENGTH (FT)	33.3	28.1	28.4	31.4	27.4	23.8
DEAD TREES PER ACRE	10	10	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	4.0	1.2	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	107	19	0	0	0	0

PLOT SUMMARY REPORT

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INSTALLATION 283 SUMMIT CREEK

REGION: CENTRAL WASHINGTON

OWNERSHIP: WASHINGTON DNR

LEGAL DESCRIPTION: T33N R24E SECTION 4

MERIDIAN: WILLAMETTE

PLOT NUMBER

INITIAL TREATMENT (1982)

SECOND TREATMENT (1988)

1	2	3	4	5	6
0#N	400#N	200#N	0#N	400#N	200#N
N+K	NONE	200#N	NONE	N+K	N+K

MEASUREMENTAL CHARACTERISTICS:

AT TIME OF TREATMENT (1982)

STAND AGE = 75

LIVE TREES PER ACRE	280	280	270	300	290	280
LIVE BASAL AREA (SQ. FT/A)	98.2	90.3	100.5	105.8	94.5	95.9
LIVE TOTAL VOLUME (CU. FT/A)	2151	1845	2304	2394	2014	2002
CROWN COMPETITION FACTOR	119	113	120	132	117	118
RELATIVE DENSITY INDEX	34.7	32.6	35.0	37.3	34.0	34.1
MEAN DIAMETER (IN)	8.0	7.7	8.3	8.0	7.7	7.9
SITE HEIGHT (FEET)	61.0	60.6	61.0	60.2	61.7	60.7
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	85.1	91.0	74.1	95.0	89.8	96.7
WESTERN LARCH	0.0	9.0	10.6	0.0	8.8	0.0
LODGEPOLE PINE	14.9	0.0	15.3	5.0	0.0	0.0
PONDEROSA PINE	0.0	0.0	0.0	0.0	1.4	3.3

2 YEARS AFTER TREATMENT (1984)

LIVE TREES PER ACRE	280	280	270	300	290	280
LIVE BASAL AREA (SQ. FT/A)	109.0	112.3	116.8	117.4	114.5	113.2
CROWN COMPETITION FACTOR	130	135	137	145	139	136
RELATIVE DENSITY INDEX	37.5	38.3	39.1	40.3	39.3	38.6
MEAN DIAMETER (IN)	8.4	8.6	8.9	8.5	8.5	8.6
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1986)

LIVE TREES PER ACRE	280	280	270	300	290	280
LIVE BASAL AREA (SQ. FT/A)	116.5	127.8	128.3	124.8	128.3	124.4
LIVE TOTAL VOLUME (CU. FT/A)	2648	2808	3110	2936	2927	2712
CROWN COMPETITION FACTOR	137	152	147	152	152	148
RELATIVE DENSITY INDEX	39.4	42.3	42.0	42.2	42.7	41.4
MEAN DIAMETER (IN)	8.7	9.1	9.3	8.7	9.0	9.0
SITE HEIGHT (FEET)	64.1	66.8	65.8	63.9	66.9	64.8
AVERAGE CROWN RATIO (%)	50	55	54	50	52	57
AVERAGE CROWN LENGTH (FT)	26.2	30.4	30.2	28.4	29.3	29.4
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	0	0	0

6 YEARS AFTER TREATMENT (1988)

LIVE TREES PER ACRE	280	280	270	300	290	280
LIVE BASAL AREA (SQ. FT/A)	123.2	139.8	136.9	131.7	137.7	133.2
LIVE TOTAL VOLUME (CU. FT/A)	2852	3135	3402	3166	3209	2963
CROWN COMPETITION FACTOR	144	164	154	158	162	158
RELATIVE DENSITY INDEX	41.1	45.2	44.1	44.0	45.1	43.6
MEAN DIAMETER (IN)	9.0	9.6	9.6	9.0	9.3	9.3
SITE HEIGHT (FEET)	65.3	68.7	67.4	65.8	68.7	66.4
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	0	0	0

8 YEARS AFTER TREATMENT (1990)

LIVE TREES PER ACRE	280	280	270	300	280	280
LIVE BASAL AREA (SQ. FT/A)	131.0	149.7	146.1	137.4	142.1	143.7
LIVE TOTAL VOLUME (CU. FT/A)	3083	3412	3682	3339	3361	3245
CROWN COMPETITION FACTOR	151	174	161	166	164	169
RELATIVE DENSITY INDEX	43.0	47.6	46.3	45.4	45.8	46.1
MEAN DIAMETER (IN)	9.3	9.9	10.0	9.2	9.6	9.7
SITE HEIGHT (FEET)	66.5	70.6	69.1	66.4	69.9	67.6
AVERAGE CROWN RATIO (%)	51	58	58	49	51	53
AVERAGE CROWN LENGTH (FT)	28.1	33.5	34.5	28.8	30.1	28.5
DEAD TREES PER ACRE	0	0	0	0	10	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	4.8	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	0	108	0

PLOT SUMMARY REPORT

INSTALLATION 284 N.F. VALLEY CREEK
 REGION: MONTANA OWNERSHIP: FLATHEAD (BIA)
 LEGAL DESCRIPTION: T17N R21W SECTION 22 MERIDIAN: PRINCIPAL

PLOT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1982)	400#N	200#N	0#N	400#N	200#N	0#N
SECOND TREATMENT (1988)	200#N	200#N	N+K	N+K	NONE	NONE

MENSURATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1982)	STAND AGE = 75					
LIVE TREES PER ACRE	140	150	150	170	140	180
LIVE BASAL AREA (SQ. FT/A)	186.6	149.9	180.4	103.2	99.5	111.1
LIVE TOTAL VOLUME (CU. FT/A)	5836	4448	5456	2360	2375	2379
CROWN COMPETITION FACTOR	175	147	169	119	107	127
RELATIVE DENSITY INDEX	47.2	40.7	46.8	31.8	29.4	34.1
MEAN DIAMETER (IN)	15.6	13.5	14.8	10.5	11.4	10.6
SITE HEIGHT (FEET)	90.4	82.0	88.1	66.0	66.5	62.1
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	100.0	93.5	97.7	100.0	96.0	100.0
PONDEROSA PINE	0.0	6.5	2.3	0.0	4.0	0.0

2 YEARS AFTER TREATMENT (1984)

LIVE TREES PER ACRE	140	150	150	170	140	180
LIVE BASAL AREA (SQ. FT/A)	192.4	156.6	183.9	110.3	104.9	117.2
CROWN COMPETITION FACTOR	179	152	174	125	112	132
RELATIVE DENSITY INDEX	48.3	42.1	48.5	33.4	30.6	35.4
MEAN DIAMETER (IN)	15.9	13.8	15.2	10.9	11.7	10.9
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1986)

LIVE TREES PER ACRE	140	150	150	170	140	180
LIVE BASAL AREA (SQ. FT/A)	198.3	162.1	194.7	115.7	109.4	122.2
LIVE TOTAL VOLUME (CU. FT/A)	6316	4916	6011	2709	2688	2680
CROWN COMPETITION FACTOR	183	156	178	129	117	136
RELATIVE DENSITY INDEX	49.4	43.2	49.6	34.6	31.6	36.6
MEAN DIAMETER (IN)	16.1	14.1	15.4	11.2	12.0	11.2
SITE HEIGHT (FEET)	92.2	83.7	90.0	68.4	68.6	63.8
AVERAGE CROWN RATIO (%)	39	39	44	42	42	48
AVERAGE CROWN LENGTH (FT)	34.5	31.6	36.6	24.8	27.4	27.1
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	0	0	0

6 YEARS AFTER TREATMENT (1988)

LIVE TREES PER ACRE	140	150	150	170	140	180
LIVE BASAL AREA (SQ. FT/A)	202.1	167.2	200.8	121.3	113.2	127.1
LIVE TOTAL VOLUME (CU. FT/A)	6508	5123	6261	2884	2823	2930
CROWN COMPETITION FACTOR	185	159	183	134	119	140
RELATIVE DENSITY INDEX	50.1	44.2	50.7	35.9	32.4	37.7
MEAN DIAMETER (IN)	16.3	14.3	15.7	11.4	12.2	11.4
SITE HEIGHT (FEET)	93.3	84.5	91.3	69.6	69.7	64.9
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	0	0	0

8 YEARS AFTER TREATMENT (1990)

LIVE TREES PER ACRE	140	150	150	170	140	180
LIVE BASAL AREA (SQ. FT/A)	207.2	172.6	208.2	127.1	117.7	132.5
LIVE TOTAL VOLUME (CU. FT/A)	6756	5385	6635	3089	2998	3010
CROWN COMPETITION FACTOR	188	163	188	138	123	144
RELATIVE DENSITY INDEX	51.0	45.3	52.1	37.1	33.4	38.9
MEAN DIAMETER (IN)	16.5	14.5	15.9	11.7	12.4	11.6
SITE HEIGHT (FEET)	94.6	86.4	93.1	71.5	71.6	66.6
AVERAGE CROWN RATIO (%)	37	41	41	44	45	48
AVERAGE CROWN LENGTH (FT)	33.7	33.5	35.1	27.6	30.5	28.4
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	0	0	0

PLCT SUMMARY REPORT

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INSTALLATION 285 S.F. VALLEY CREEK
 REGION: MONTANA OWNERSHIP: FLATHEAD (BIA)
 LEGAL DESCRIPTION: T16N R21W SECTION 2 MERIDIAN: PRINCIPAL

PLOT NUMBER

	1	2	3	4	5	6
INITIAL TREATMENT (1982)	0#N	200#N	400#N	400#N	0#N	200#N
SECOND TREATMENT (1988)	NCNE	NONE	NONE	200#N	N+K	200#N

MENSURATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1982)

STAND AGE = 72

LIVE TREES PER ACRE	180	180	150	120	140	160
LIVE BASAL AREA (SQ. FT/A)	135.8	116.6	123.9	106.6	120.4	107.3
LIVE TOTAL VOLUME (CU. FT/A)	3559	2725	3154	2666	2928	2546
CROWN COMPETITION FACTOR	147	126	130	113	130	124
RELATIVE DENSITY INDEX	39.6	35.3	35.3	29.8	34.0	32.2
MEAN DIAMETER (IN)	11.8	10.9	12.3	12.3	12.5	11.1
SITE HEIGHT (FEET)	77.7	68.2	74.3	70.2	71.0	66.1
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	100.0	90.5	100.0	100.0	100.0	100.0
PONDEROSA PINE	0.0	9.5	0.0	0.0	0.0	0.0

2 YEARS AFTER TREATMENT (1984)

LIVE TREES PER ACRE	180	180	150	120	140	160
LIVE BASAL AREA (SQ. FT/A)	140.1	122.2	129.5	112.0	124.0	111.9
CROWN COMPETITION FACTOR	150	130	134	117	133	127
RELATIVE DENSITY INDEX	40.5	36.6	36.5	31.0	34.7	33.3
MEAN DIAMETER (IN)	11.9	11.2	12.6	13.1	12.7	11.3
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1986)

LIVE TREES PER ACRE	180	180	150	110	140	160
LIVE BASAL AREA (SQ. FT/A)	145.2	128.5	136.0	109.6	128.7	116.9
LIVE TOTAL VOLUME (CU. FT/A)	3898	3112	3550	2857	3208	2844
CROWN COMPETITION FACTOR	153	135	139	112	136	131
RELATIVE DENSITY INDEX	41.6	38.0	37.9	29.8	35.7	34.4
MEAN DIAMETER (IN)	12.2	11.4	12.9	13.5	13.0	11.6
SITE HEIGHT (FEET)	80.2	70.8	74.3	72.7	73.1	67.9
AVERAGE CROWN RATIO (%)	40	44	43	54	43	47
AVERAGE CROWN LENGTH (FT)	28.1	27.2	29.4	37.4	28.4	30.1
DEAD TREES PER ACRE	0	0	0	10	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	8.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	1	0	0	177	0	0

6 YEARS AFTER TREATMENT (1988)

LIVE TREES PER ACRE	180	180	150	110	140	160
LIVE BASAL AREA (SQ. FT/A)	149.8	132.7	140.5	114.9	132.1	120.2
LIVE TOTAL VOLUME (CU. FT/A)	4083	3274	3737	3044	3342	2967
CROWN COMPETITION FACTOR	157	138	142	117	139	133
RELATIVE DENSITY INDEX	42.6	38.9	38.8	30.9	36.4	35.1
MEAN DIAMETER (IN)	12.3	11.6	13.1	13.8	13.1	11.7
SITE HEIGHT (FEET)	81.4	72.1	76.2	74.2	74.0	68.8
DEAD TREES PER ACRE	0	0	0	10	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	8.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	1	0	0	177	0	0

8 YEARS AFTER TREATMENT (1990)

LIVE TREES PER ACRE	180	180	150	110	140	160
LIVE BASAL AREA (SQ. FT/A)	155.0	137.6	146.4	119.8	136.5	124.3
LIVE TOTAL VOLUME (CU. FT/A)	4283	3453	3956	3236	3519	3145
CROWN COMPETITION FACTOR	160	143	146	120	142	139
RELATIVE DENSITY INDEX	43.7	40.0	40.0	31.9	37.3	36.0
MEAN DIAMETER (IN)	12.6	11.8	13.4	14.1	13.4	11.9
SITE HEIGHT (FEET)	82.8	73.3	77.6	75.9	75.7	70.9
AVERAGE CROWN RATIO (%)	36	41	40	54	43	45
AVERAGE CROWN LENGTH (FT)	25.8	26.5	28.5	39.8	29.9	30.3
DEAD TREES PER ACRE	0	0	0	10	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	8.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	1	0	0	177	0	0

PLCT SUMMARY REPORT

INSTALLATION 286 BLACK ROCK CREEK
 REGION: NORTHERN IDAHO OWNERSHIP: BLM (IDAHO)
 LEGAL DESCRIPTION: T48N R1W SECTION 8 MERIDIAN: BOISE

PLOT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1982)	200#N	0#N	400#N	0#N	200#N	400#N
SECOND TREATMENT (1988)	200#N	NONE	N+K	N+K	NONE	200#N

MENSURATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1982)	STAND AGE = 83					
LIVE TREES PER ACRE	190	230	250	240	240	290
LIVE BASAL AREA (SQ. FT/A)	191.6	216.2	249.7	201.5	189.8	223.1
LIVE TOTAL VOLUME (CU. FT/A)	5652	7152	7922	6467	6329	6644
CROWN COMPETITION FACTOR	195	223	249	214	197	243
RELATIVE DENSITY INDEX	51.9	59.7	67.9	57.2	54.7	64.7
MEAN DIAMETER (IN)	13.6	13.1	13.5	12.4	12.0	11.9
SITE HEIGHT (FEET)	91.5	96.3	93.8	90.9	99.6	89.9
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	100.0	100.0	100.0	100.0	100.0	100.0

2 YEARS AFTER TREATMENT (1984)

LIVE TREES PER ACRE	190	230	250	240	240	290
LIVE BASAL AREA (SQ. FT/A)	202.8	224.4	263.6	208.9	198.9	234.5
CROWN COMPETITION FACTOR	203	229	258	219	204	253
RELATIVE DENSITY INDEX	54.2	61.4	70.7	58.8	56.6	67.2
MEAN DIAMETER (IN)	14.0	13.4	13.9	12.6	12.3	12.2
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1986)

LIVE TREES PER ACRE	190	230	250	240	240	290
LIVE BASAL AREA (SQ. FT/A)	211.7	233.2	275.0	217.4	207.3	244.4
LIVE TOTAL VOLUME (CU. FT/A)	6509	7940	9076	7175	7213	7588
CROWN COMPETITION FACTOR	209	235	266	225	210	261
RELATIVE DENSITY INDEX	56.0	63.2	73.0	60.6	58.4	69.3
MEAN DIAMETER (IN)	14.3	13.6	14.2	12.9	12.6	12.4
SITE HEIGHT (FEET)	95.5	99.7	98.2	93.6	104.1	94.0
AVERAGE CROWN RATIO (%)	33	30	34	32	33	35
AVERAGE CROWN LENGTH (FT)	27.4	27.5	29.9	28.2	29.5	28.2
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	0	0	0

6 YEARS AFTER TREATMENT (1988)

LIVE TREES PER ACRE	190	230	250	240	240	290
LIVE BASAL AREA (SQ. FT/A)	213.8	241.2	286.6	226.1	215.6	251.8
LIVE TOTAL VOLUME (CU. FT/A)	6874	8342	9653	7584	7631	7950
CROWN COMPETITION FACTOR	214	240	274	231	216	266
RELATIVE DENSITY INDEX	57.6	64.8	75.3	62.4	60.2	70.9
MEAN DIAMETER (IN)	14.6	13.9	14.5	13.1	12.8	12.6
SITE HEIGHT (FEET)	97.2	101.3	100.3	95.1	106.1	95.8
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	0	0	0

8 YEARS AFTER TREATMENT (1990)

LIVE TREES PER ACRE	190	220	250	240	240	290
LIVE BASAL AREA (SQ. FT/A)	227.6	244.7	298.4	234.8	223.8	261.7
LIVE TOTAL VOLUME (CU. FT/A)	7287	8678	10290	8031	8058	8415
CROWN COMPETITION FACTOR	220	240	282	237	221	273
RELATIVE DENSITY INDEX	59.1	64.7	77.6	64.1	61.9	73.0
MEAN DIAMETER (IN)	14.8	14.3	14.8	13.4	13.1	12.9
SITE HEIGHT (FEET)	99.8	103.7	103.2	97.3	108.4	96.7
AVERAGE CROWN RATIO (%)	29	24	28	26	28	26
AVERAGE CROWN LENGTH (FT)	24.5	23.4	25.2	23.8	25.4	21.8
DEAD TREES PER ACRE	0	10	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	4.7	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	123	0	0	1	0

PLCT SUMMARY REPORT

INSTALLATION 287 JIM FOED CREEK
 REGION: NORTHERN IDAHO OWNERSHIP: POTLATCH
 LEGAL DESCRIPTION: T35N R4E SECTION 8 MERIDIAN: BOISE

PLOT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1982)	0#N	400#N	200#N	0#N	200#N	400#N
SECOND TREATMENT (1988)	N+K	200#N	200#N	NONE	NONE	NONE

MENSURATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1982)	STAND AGE = 57					
LIVE TREES PER ACRE	410	340	490	450	460	450
LIVE BASAL AREA (SQ. FT/A)	180.6	156.8	210.8	174.1	163.1	158.7
LIVE TOTAL VOLUME (CU. FT/A)	4773	4379	5674	4250	3930	3910
CROWN COMPETITION FACTOR	204	188	261	208	199	196
RELATIVE DENSITY INDEX	60.2	51.7	70.7	60.0	57.4	56.0
MEAN DIAMETER (IN)	9.0	9.2	8.9	8.4	8.1	8.0
SITE HEIGHT (FEET)	83.4	81.0	77.5	70.1	71.0	73.4
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	59.2	86.5	83.2	88.1	89.7	86.1
GRAND FIR	8.4	8.4	11.1	0.0	0.0	5.4
WESTERN LARCH	29.2	5.1	5.6	10.3	10.3	8.5
LODGEPOLE PINE	0.0	0.0	0.0	1.6	0.0	0.0
PONDEROSA PINE	3.2	0.0	0.0	0.0	0.0	0.0

2 YEARS AFTER TREATMENT (1984)

LIVE TREES PER ACRE	410	340	490	450	460	450
LIVE BASAL AREA (SQ. FT/A)	188.6	167.8	223.2	181.7	177.7	174.3
CROWN COMPETITION FACTOR	212	197	273	214	213	213
RELATIVE DENSITY INDEX	62.2	54.4	73.8	61.9	61.3	60.0
MEAN DIAMETER (IN)	9.2	9.5	9.1	8.6	8.4	8.4
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1986)

LIVE TREES PER ACRE	410	340	490	450	460	450
LIVE BASAL AREA (SQ. FT/A)	196.4	177.8	235.0	189.5	189.1	186.3
LIVE TOTAL VOLUME (CU. FT/A)	5498	5269	6712	4865	4854	4942
CROWN COMPETITION FACTOR	220	207	285	221	225	225
RELATIVE DENSITY INDEX	64.2	56.8	76.7	63.9	64.2	63.1
MEAN DIAMETER (IN)	9.4	9.8	9.4	8.8	8.7	8.7
SITE HEIGHT (FEET)	88.3	86.0	82.1	74.5	76.5	80.5
AVERAGE CROWN RATIO (%)	35	36	34	33	36	41
AVERAGE CROWN LENGTH (FT)	24.5	26.5	23.9	21.0	23.5	26.3
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	0	0	0

6 YEARS AFTER TREATMENT (1988)

LIVE TREES PER ACRE	410	330	490	440	450	450
LIVE BASAL AREA (SQ. FT/A)	205.4	186.3	246.3	197.2	197.0	197.9
LIVE TOTAL VOLUME (CU. FT/A)	5875	5636	7198	5184	5176	5377
CROWN COMPETITION FACTOR	227	214	295	228	232	237
RELATIVE DENSITY INDEX	66.4	58.4	79.5	65.5	65.8	66.0
MEAN DIAMETER (IN)	9.6	10.2	9.6	9.1	9.0	9.0
SITE HEIGHT (FEET)	90.4	87.6	84.2	76.5	78.5	82.5
DEAD TREES PER ACRE	0	10	0	10	10	0
DEAD BASAL AREA (SQ. FT/A)	0.0	1.6	0.0	1.6	3.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	36	0	35	67	0

8 YEARS AFTER TREATMENT (1990)

LIVE TREES PER ACRE	390	300	480	440	430	430
LIVE BASAL AREA (SQ. FT/A)	207.7	180.4	251.2	205.0	198.1	203.0
LIVE TOTAL VOLUME (CU. FT/A)	6138	5595	7539	5516	5380	5661
CROWN COMPETITION FACTOR	229	202	298	236	232	239
RELATIVE DENSITY INDEX	66.1	55.7	80.3	67.4	65.3	66.5
MEAN DIAMETER (IN)	9.9	10.5	9.8	9.2	9.2	9.3
SITE HEIGHT (FEET)	93.6	90.1	86.4	78.5	81.3	85.0
AVERAGE CROWN RATIO (%)	38	38	33	29	35	41
AVERAGE CROWN LENGTH (FT)	28.3	28.5	24.8	19.7	24.1	28.2
DEAD TREES PER ACRE	20	40	10	10	30	20
DEAD BASAL AREA (SQ. FT/A)	8.4	16.0	6.0	1.6	10.3	4.7
DEAD TOTAL VOLUME (CU. FT/A)	221	468	164	35	223	124

PLCT SUMMARY REPORT

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INSTALLATION 288 MICA MTN

REGION: NORTHERN IDAHO

LEGAL DESCRIPTION: T49N R5W

SECTION 33

CWNERSHIP: INLAND EMPIRE

MERIDIAN: BOISE

PLOT NUMBER

INITIAL TREATMENT (1982)

SECOND TREATMENT (1988)

1	2	3	4	5	6
0#N	200#N	400#N	0#N	400#N	200#N
NONE	NONE	NONE	N+K	N+K	N+K

MEASURATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1992)

STAND AGE = 54

LIVE TREES PER ACRE	300	230	250	400	260	420
LIVE BASAL AREA (SQ. FT/A)	265.0	222.3	216.2	255.4	243.1	335.3
LIVE TOTAL VOLUME (CU. FT/A)	9139	5928	6739	7522	7323	10768
CROWN COMPETITION FACTOR	252	218	211	264	247	329
RELATIVE DENSITY INDEX	74.3	60.9	60.9	77.6	67.2	96.4
MEAN DIAMETER (IN)	12.7	13.3	12.6	10.8	13.1	12.1
SITE HEIGHT (FEET)	94.0	81.1	93.5	94.3	93.1	95.1
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	71.1	96.6	76.2	88.0	97.4	76.3
GRAND FIR	0.0	0.0	10.0	1.1	0.0	0.0
WESTERN RED CEDAR	0.0	0.0	0.0	2.8	0.0	0.0
WESTERN LARCH	1.5	0.0	13.8	8.1	0.0	0.0
PONDEROSA PINE	27.4	3.4	0.0	0.0	2.6	23.7

2 YEARS AFTER TREATMENT (1984)

LIVE TREES PER ACRE	300	230	250	400	260	420
LIVE BASAL AREA (SQ. FT/A)	275.9	240.4	231.3	270.2	257.5	353.2
CROWN COMPETITION FACTOR	260	231	222	275	257	342
RELATIVE DENSITY INDEX	76.6	64.6	64.1	81.0	70.1	100.2
MEAN DIAMETER (IN)	13.0	13.8	13.0	11.1	13.5	12.4
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1986)

LIVE TREES PER ACRE	300	230	250	400	260	410
LIVE BASAL AREA (SQ. FT/A)	283.8	252.8	244.9	281.6	267.9	364.4
LIVE TOTAL VOLUME (CU. FT/A)	10214	7147	8187	8688	9123	12339
CROWN COMPETITION FACTOR	265	240	232	283	264	350
RELATIVE DENSITY INDEX	78.2	67.1	66.9	83.5	72.3	102.0
MEAN DIAMETER (IN)	13.2	14.2	13.4	11.4	13.7	12.8
SITE HEIGHT (FEET)	98.5	86.3	100.3	99.1	99.2	100.6
AVERAGE CROWN RATIO (%)	32	48	40	36	38	37
AVERAGE CROWN LENGTH (FT)	27.5	36.0	33.2	26.4	34.3	30.3
DEAD TREES PER ACRE	0	0	0	0	0	10
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	2.3
DEAD TOTAL VOLUME (CU. FT/A)	2	0	0	1	0	60

6 YEARS AFTER TREATMENT (1988)

LIVE TREES PER ACRE	290	220	250	390	260	400
LIVE BASAL AREA (SQ. FT/A)	287.1	261.4	254.1	288.7	275.6	367.9
LIVE TOTAL VOLUME (CU. FT/A)	10581	7626	8723	9162	9625	12831
CROWN COMPETITION FACTOR	265	246	239	288	269	351
RELATIVE DENSITY INDEX	78.2	68.0	68.8	84.6	73.8	102.1
MEAN DIAMETER (IN)	13.5	14.8	13.6	11.6	13.9	13.0
SITE HEIGHT (FEET)	100.8	88.7	102.7	102.2	101.9	103.8
DEAD TREES PER ACRE	10	10	0	10	0	20
DEAD BASAL AREA (SQ. FT/A)	4.5	2.8	0.0	1.7	0.0	7.0
DEAD TOTAL VOLUME (CU. FT/A)	131	46	0	30	0	191

8 YEARS AFTER TREATMENT (1990)

LIVE TREES PER ACRE	290	220	240	390	260	400
LIVE BASAL AREA (SQ. FT/A)	297.0	275.4	259.8	301.0	287.8	384.6
LIVE TOTAL VOLUME (CU. FT/A)	11161	8239	9232	9765	10313	13749
CROWN COMPETITION FACTOR	272	256	242	297	278	362
RELATIVE DENSITY INDEX	80.2	70.8	69.2	87.3	76.2	105.5
MEAN DIAMETER (IN)	13.7	15.1	14.1	11.9	14.2	13.3
SITE HEIGHT (FEET)	103.0	90.1	105.6	104.7	105.3	106.6
AVERAGE CROWN RATIO (%)	29	42	35	34	35	36
AVERAGE CROWN LENGTH (FT)	26.0	33.6	30.4	26.5	33.0	31.1
DEAD TREES PER ACRE	10	10	10	10	0	20
DEAD BASAL AREA (SQ. FT/A)	4.5	2.8	4.9	1.7	0.0	7.0
DEAD TOTAL VOLUME (CU. FT/A)	132	46	93	30	1	192

PLCT SUMMARY REPORT

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INSTALLATION 289 GROUSE MTN
 REGION: NORTHEAST WASHINGTON OWNERSHIP: INLAND EMPIRE
 LEGAL DESCRIPTION: T40N R40E SECTION 8 MERIDIAN: WILLAMETTE

PLOT NUMBER

	1	2	3	4	5	6
INITIAL TREATMENT (1982)	0#N	200#N	400#N	400#N	200#N	0#N
SECOND TREATMENT (1988)	NONE	200#N	NONE	200#N	N+K	N+K

MENSURATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1982)	STAND AGE = 51					
LIVE TREES PER ACRE	450	550	370	360	450	400
LIVE BASAL AREA (SQ. FT/A)	175.7	206.5	166.6	163.6	210.1	168.2
LIVE TOTAL VOLUME (CU. FT/A)	4796	5491	3998	4265	5613	4303
CROWN COMPETITION FACTOR	216	258	200	192	246	199
RELATIVE DENSITY INDEX	60.4	71.7	55.3	54.2	69.1	56.8
MEAN DIAMETER (IN)	8.5	8.3	9.1	9.1	9.3	8.8
SITE HEIGHT (FEET)	78.8	74.5	71.9	78.5	81.3	77.5
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	100.0	99.0	100.0	100.0	97.0	100.0
GRAND FIR	0.0	1.0	0.0	0.0	2.1	0.0
WESTERN LARCH	0.0	0.0	0.0	0.0	1.0	0.0

2 YEARS AFTER TREATMENT (1984)

LIVE TREES PER ACRE	450	550	370	350	440	390
LIVE BASAL AREA (SQ. FT/A)	187.3	221.5	183.2	178.4	224.2	178.1
CROWN COMPETITION FACTOR	227	272	216	204	259	205
RELATIVE DENSITY INDEX	63.4	75.5	59.4	57.4	72.1	58.9
MEAN DIAMETER (IN)	8.7	8.6	9.5	9.7	9.7	9.1
DEAD TREES PER ACRE	0.0	0	0	10	10	10
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	1.2	3.0	7.0

4 YEARS AFTER TREATMENT (1986)

LIVE TREES PER ACRE	450	540	370	350	440	340
LIVE BASAL AREA (SQ. FT/A)	196.2	229.4	193.3	190.1	235.5	181.7
LIVE TOTAL VOLUME (CU. FT/A)	5652	6481	4881	5348	6707	5037
CROWN COMPETITION FACTOR	236	279	226	213	269	203
RELATIVE DENSITY INDEX	65.6	77.2	61.8	60.2	74.8	57.8
MEAN DIAMETER (IN)	8.9	8.8	9.8	10.0	9.9	9.9
SITE HEIGHT (FEET)	82.7	79.9	77.6	85.7	87.9	83.9
AVERAGE CROWN RATIO (%)	41	35	53	41	41	41
AVERAGE CROWN LENGTH (FT)	28.1	24.0	32.6	27.0	27.7	26.4
DEAD TREES PER ACRE	0	10	0	10	10	60
DEAD BASAL AREA (SQ. FT/A)	0.0	2.7	0.0	1.2	3.0	15.6
DEAD TOTAL VOLUME (CU. FT/A)	0	65	4	18	58	341

6 YEARS AFTER TREATMENT (1989)

LIVE TREES PER ACRE	450	510	370	340	420	330
LIVE BASAL AREA (SQ. FT/A)	203.5	232.9	201.5	193.0	238.5	191.6
LIVE TOTAL VOLUME (CU. FT/A)	6023	6756	5219	5568	7046	5463
CROWN COMPETITION FACTOR	244	279	234	213	269	211
RELATIVE DENSITY INDEX	67.4	77.0	63.8	60.4	74.6	59.6
MEAN DIAMETER (IN)	9.1	9.1	10.0	10.2	10.2	10.3
SITE HEIGHT (FEET)	85.9	82.4	80.0	87.9	91.3	86.6
DEAD TREES PER ACRE	0	40	0	20	30	70
DEAD BASAL AREA (SQ. FT/A)	0.0	7.4	0.0	8.2	9.2	17.0
DEAD TOTAL VOLUME (CU. FT/A)	0	186	5	227	207	370

8 YEARS AFTER TREATMENT (1990)

LIVE TREES PER ACRE	450	500	370	300	430	320
LIVE BASAL AREA (SQ. FT/A)	211.0	240.0	210.5	186.6	252.9	202.5
LIVE TOTAL VOLUME (CU. FT/A)	6373	7171	5595	5498	7582	5939
CROWN COMPETITION FACTOR	251	285	242	204	282	219
RELATIVE DENSITY INDEX	69.3	78.4	65.9	57.1	78.5	61.7
MEAN DIAMETER (IN)	9.3	9.4	10.2	10.7	10.4	10.8
SITE HEIGHT (FEET)	87.1	84.8	82.4	88.1	92.5	89.4
AVERAGE CROWN RATIO (%)	41	37	46	40	43	41
AVERAGE CROWN LENGTH (FT)	30.0	27.2	30.0	28.5	31.1	29.4
DEAD TREES PER ACRE	0	50	0	60	20	80
DEAD BASAL AREA (SQ. FT/A)	0.0	9.6	0.0	25.2	6.2	17.7
DEAD TOTAL VOLUME (CU. FT/A)	0	245	5	758	149	386

PLCT SUMMARY REPORT

INSTALLATION 290 GRASS MTN
 REGION: NORTHEAST WASHINGTON
 LEGAL DESCRIPTION: T39N R40E SECTION 1 OWNERSHIP: INLAND EMPIRE
 MERIDIAN: WILLAMETTE

PLOT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1982)	400#N	0#N	200#N	0#N	200#N	400#N
SECOND TREATMENT (1988)	NONE	NONE	NONE	N+K	200#N	NONE

MENSURATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1982)	STAND AGE = 75					
LIVE TREES PER ACRE	420	420	520	510	440	610
LIVE BASAL AREA (SQ. FT/A)	210.1	194.1	260.3	184.2	189.6	203.7
LIVE TOTAL VOLUME (CU. FT/A)	5831	5573	7362	4967	4595	5215
CROWN COMPETITION FACTOR	235	235	304	226	227	254
RELATIVE DENSITY INDEX	67.9	64.0	34.1	64.6	63.6	72.8
MEAN DIAMETER (IN)	9.6	9.2	9.6	8.1	8.9	7.8
SITE HEIGHT (FEET)	79.8	79.3	84.5	80.1	79.9	71.2
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	89.6	100.0	100.0	96.3	100.0	91.8
GRAND FIR	0.0	0.0	0.0	0.0	0.0	3.4
WESTERN LARCH	10.4	0.0	0.0	3.7	0.0	0.0
LODGEPOLE PINE	0.0	0.0	0.0	0.0	0.0	1.9
PONDEROSA PINE	0.0	0.0	0.0	0.0	0.0	2.9

2 YEARS AFTER TREATMENT (1984)

LIVE TREES PER ACRE	420	420	520	510	440	600
LIVE BASAL AREA (SQ. FT/A)	223.6	204.0	273.3	192.2	197.6	212.9
CROWN COMPETITION FACTOR	247	245	316	234	238	263
RELATIVE DENSITY INDEX	71.1	66.4	87.2	66.6	65.6	74.9
MEAN DIAMETER (IN)	9.9	9.4	9.8	8.3	9.1	8.1
DEAD TREES PER ACRE	0	0	0	0	0	10
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	1.5

4 YEARS AFTER TREATMENT (1986)

LIVE TREES PER ACRE	390	340	510	460	380	440
LIVE BASAL AREA (SQ. FT/A)	221.5	178.4	280.9	188.6	189.3	172.0
LIVE TOTAL VOLUME (CU. FT/A)	6310	5257	8202	5313	4779	4610
CROWN COMPETITION FACTOR	240	212	320	226	222	208
RELATIVE DENSITY INDEX	69.3	57.0	88.6	64.1	61.2	59.1
MEAN DIAMETER (IN)	10.2	9.8	10.0	8.7	9.6	8.5
SITE HEIGHT (FEET)	82.9	82.7	87.5	83.9	83.1	75.1
AVERAGE CROWN RATIO (%)	35	26	29	31	35	31
AVERAGE CROWN LENGTH (FT)	23.2	19.4	21.6	20.4	21.2	19.4
DEAD TREES PER ACRE	30	80	10	50	60	170
DEAD BASAL AREA (SQ. FT/A)	12.1	34.0	4.2	11.4	17.1	50.7
DEAD TOTAL VOLUME (CU. FT/A)	335	962	109	271	371	1245

6 YEARS AFTER TREATMENT (1988)

LIVE TREES PER ACRE	350	300	510	450	370	380
LIVE BASAL AREA (SQ. FT/A)	197.1	173.9	288.9	193.3	192.1	161.3
LIVE TOTAL VOLUME (CU. FT/A)	5693	5206	8577	5586	4979	4433
CROWN COMPETITION FACTOR	213	204	326	229	224	195
RELATIVE DENSITY INDEX	61.8	54.2	90.5	64.9	61.5	54.5
MEAN DIAMETER (IN)	10.2	10.3	10.2	8.9	9.3	8.8
SITE HEIGHT (FEET)	84.0	84.6	89.3	86.3	85.1	76.8
DEAD TREES PER ACRE	70	120	10	60	70	230
DEAD BASAL AREA (SQ. FT/A)	44.0	45.9	4.2	12.6	19.1	67.3
DEAD TOTAL VOLUME (CU. FT/A)	1245	1312	113	297	411	1689

8 YEARS AFTER TREATMENT (1990)

LIVE TREES PER ACRE	330	290	500	440	370	380
LIVE BASAL AREA (SQ. FT/A)	200.4	177.1	295.1	200.4	200.3	169.4
LIVE TOTAL VOLUME (CU. FT/A)	5809	5371	8899	5913	5299	4721
CROWN COMPETITION FACTOR	212	205	329	235	231	201
RELATIVE DENSITY INDEX	61.7	54.4	91.5	66.3	63.4	56.3
MEAN DIAMETER (IN)	10.5	10.6	10.4	9.1	10.0	9.0
SITE HEIGHT (FEET)	85.0	85.7	90.8	87.9	86.3	78.1
AVERAGE CROWN RATIO (%)	34	29	27	30	34	28
AVERAGE CROWN LENGTH (FT)	23.5	22.9	20.5	21.1	21.6	18.8
DEAD TREES PER ACRE	90	130	20	70	70	230
DEAD BASAL AREA (SQ. FT/A)	48.3	51.1	6.4	13.8	19.1	67.3
DEAD TOTAL VOLUME (CU. FT/A)	1339	1460	168	320	411	1690

SECTION VII

Two Year Growth Response Summaries
for all of the Douglas-fir Retreatment Installations

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 201

LAFFINWELL CREEK #1

REGION: CENTRAL IDAHO

OWNERSHIP: BOISE CASCADE

LEGAL DESCRIPTION: T16N R4E SECTION 21 MERIDIAN: BOISE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	65 YEARS
TREES PER ACRE	227 TREES/ACRE
BASAL AREA	137.3 SQ. FEET/ACRE
TOTAL VOLUME	3332 CU. FEET/ACRE
CCF	150.1
RELATIVE DENSITY INDEX	42.2
MEAN DIAMETER	10.6 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 137.3 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	0.3	6.9	121	203	0.33
200#N	NONE					
400#N	NONE	-5.2	6.6	150	216	0.32
200#N	200#N	0.0	6.3	134	243	0.40
400#N	200#N					
0#N	N+K	3.8	8.8	167	270	0.42
200#N	N+K	6.9	6.9	248	252	0.29
400#N	N+K	9.7	7.5	260	242	0.27

TWO YEAR ABSOLUTE RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N					
OLD 400#N	-5.5	-0.3	25	13	-0.01
400#N-200#N	.	.	.	.	.
NEW 200#N	3.5	1.9	46	67	0.09
N+K ON CONT	14.9	0.3	110	26	-0.05
N+K ON TREAT	6.9	0.6	114	9	-0.11
NEW 200#K					

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N					
OLD 400#N	-1833	-4.3	24.0	6.4	-3.0
400#K-200#N	.	.	.	.	.
NEW 200#N					
N+K ON CONT	1166.7	27.5	38.0	33.0	27.3
N+K ON TREAT	286.5	13.6	73.3	12.0	-15.6
NEW 200#K	.	9.5	85.1	3.7	-27.5

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT
 INSTALLATION 202 HORSESHOE RESERVOIR

REGION: CENTRAL IDAHO OWNERSHIP: BOISE CASCADE
 LEGAL DESCRIPTION: T13N R5E SECTION 18 MERIDIAN: ECISE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	67 YEARS
TREES PER ACRE	182 TREES/ACRE
BASAL AREA	87.9 SQ. FEET/ACRE
TOTAL VOLUME	1319 CU. FEET/ACRE
DOF	100.6
RELATIVE DENSITY INDEX	28.5
MEAN DIAMETER	9.5 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
 BASAL AREA OF 87.9 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	4.7	4.7	119	119	0.22
200#N	NONE	3.1	4.6	102	110	0.23
400#N	NONE	5.9	7.1	162	169	0.41
200#N	200#N	.	.	.	.	.
400#N	200#N	.	.	.	.	.
0#K	N+K	7.1	7.2	213	215	0.44
200#K	N+K	6.6	6.6	195	195	0.40
400#K	N+K	-6.6	5.6	-60	173	0.64

TWO YEAR ABSOLUTE RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	-1.6	-0.1	-17	-9	0.01
OLD 400#N	1.2	2.4	43	50	0.19
400#N-200#N	2.8	2.5	60	59	0.18
NEW 200#N	.	.	.	.	.
N+K ON CONT	2.4	2.5	94	96	0.22
N+K ON TREAT	-4.5	0.3	-85	45	0.20
NEW 200#K	.	.	.	.	.

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	-34.0	-2.1	-14.3	-7.6	4.5
OLD 400#N	25.5	51.1	36.1	42.0	86.4
400#N-200#N	90.3	54.3	58.8	53.6	78.3
NEW 200#N	.	.	.	.	.
N+K ON CONT	51.1	53.2	79.0	30.7	100.0
N+K ON TREAT	-100.0	4.3	-48.9	31.9	62.5
NEW 200#K	.	.	.	.	.

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT
 INSTALLATION 203 LAFFINWELL CREEK #2

REGION: CENTRAL IDAHO OWNERSHIP: BOISE CASCADE
 LEGAL DESCRIPTION: T16N R4E SECTION 29 MERIDIAN: BC15E

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	75 YEARS
TREES PER ACRE	164 TREES/ACRE
BASAL AREA	119.7 SQ. FEET/ACRE
TOTAL VOLUME	3149 CU. FEET/ACRE
CCF	125.3
RELATIVE DENSITY INDEX	35.1
MEAN DIAMETER	11.7 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
 BASAL AREA OF 119.7 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	4.9	5.0	191	191	0.23
200#N	NONE	-4.8	5.4	90	177	0.43
400#N	NONE					
200#N	200#N	6.2	6.0	194	193	0.28
400#N	200#N	-12.1	4.1	-236	145	0.37
0#N	N+K	-0.7	5.3	64	219	0.30
200#N	N+K					
400#N	N+K	7.5	6.7	258	251	0.33

EFFECT		TWO YEAR ABSOLUTE RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		-9.7	0.4	-101	-14	0.20
OLD 400#N		.	.	.	.	.
400#N-200#N						
NEW 200#N		11.0	0.6	104	16	-0.15
N+K ON CONT		-5.6	0.3	-127	28	0.07
N+K ON TREAT						
NEW 200#K		19.6	2.6	494	106	-0.04

EFFECT		TWO YEAR PERCENT RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		-198.0	8.0	-52.9	-7.3	87.0
OLD 400#N		.	.	.	.	.
400#N-200#N						
NEW 200#N		229.2	11.1	115.6	9.0	-34.9
N+K ON CONT		-114.3	6.0	-66.5	14.7	30.4
N+K ON TREAT						
NEW 200#K		162.0	63.4	209.3	73.1	-10.8

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 204

JOHNSON'S HILL #1

REGION: NORTHERN IDAHO

OWNERSHIP: IDL

LEGAL DESCRIPTION: T37N R3E SECTION 4 MERIDIAN: BOISE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	47 YEARS
TREES PER ACRE	213 TREES/ACRE
BASAL AREA	134.3 SQ. FEET/ACRE
TOTAL VOLUME	366.3 CU. FEET/ACRE
CCF	158.4
RELATIVE DENSITY INDEX	41.2
MEAN DIAMETER	10.6 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 134.3 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	8.2	8.2	294	295	0.31
200#N	NONE	5.8	10.2	426	411	0.38
400#N	NONE	6.9	11.6	448	443	0.43
200#N	200#N	8.3	11.2	367	458	0.59
400#N	200#N	15.9	15.0	616	626	0.70
0#N	N+K	13.5	13.5	480	479	0.49
200#N	N+K	.	.	.	.	.
400#N	N+K	.	.	.	.	.

TWO YEAR ABSOLUTE RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	-2.4	2.0	132	116	0.07
OLD 400#N	-1.3	3.4	154	143	0.12
400#N-200#N	1.1	1.4	22	32	0.05
NEW 200#N	5.7	2.2	55	115	0.24
N+K ON CONT	5.3	5.3	186	184	0.18
N+K ON TREAT	.	.	.	.	.
NEW 200#K	.	.	.	.	.

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	-29.3	24.4	44.9	39.3	22.6
OLD 400#N	-15.9	41.5	52.4	50.2	38.7
400#N-200#N	19.0	13.7	5.2	7.8	13.2
NEW 200#N	90.6	20.2	12.5	26.9	59.3
N+K ON CONT	64.6	64.6	63.3	62.4	53.1
N+K ON TREAT	.	.	.	.	.
NEW 200#K	.	.	.	.	.

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT
 INSTALLATION 205 JOHNSON'S MILL #2
 REGION: NORTHERN IDAHO OWNERSHIP: IDL
 LEGAL DESCRIPTION: T37N R3E SECTION 4 MERIDIAN: BOISE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	47 YEARS
TREES PER ACRE	217 TREES/ACRE
BASAL AREA	144.0 SQ. FEET/ACRE
TOTAL VOLUME	4214 CU. FEET/ACRE
CCF	165.6
RELATIVE DENSITY INDEX	43.3
MEAN DIAMETER	11.0 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
 BASAL AREA OF 144.0 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	9.6	9.4	428	429	0.33
200#N	NONE	17.9	11.2	456	449	0.44
400#N	NONE	13.2	13.9	552	552	0.49
200#N	200#N	4.4	14.6	561	722	0.55
400#N	200#N	10.4	10.6	436	450	0.33
0#N	N+K	12.1	12.0	583	581	0.46
200#N	N+K	.	.	.	.	.
400#N	N+K	.	.	.	.	.

TWO YEAR ABSOLUTE RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	8.3	1.8	28	20	0.06
OLD 400#N					
400#N-200#N	-13.5	3.4	105	273	0.11
NEW 200#N	0.8	1.2	3	21	0.00
N+K ON CONT	-1.1	-1.9	31	29	-0.03
N+K CN TREAT					
NEW 200#K					

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	86.5	19.1	6.5	4.7	15.8
OLD 400#N					
400#N-200#N	-75.4	30.4	23.0	60.8	25.0
NEW 200#N	8.3	12.3	1.9	4.9	0.0
N+K ON CONT	-8.3	-13.7	5.6	5.3	-6.1
N+K CN TREAT					
NEW 200#K					

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 206

CARIBEL

REGION: NORTHERN IDAHO

OWNERSHIP: IDL

LEGAL DESCRIPTION: T34N R4E SECTION 36 MERIDIAN: LOISE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	52 YEARS
TREES PER ACRE	257 TREES/ACRE
BASAL AREA	186.3 SQ. FEET/ACRE
TOTAL VOLUME	5512 CU. FEET/ACRE
CCF	201.2
RELATIVE DENSITY INDEX	54.8
MEAN DIAMETER	11.6 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 186.3 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	12.3	9.8	465	489	0.33
200#N	NONE	6.9	10.0	506	483	0.29
400#N	NONE	.	.	.	.	.
200#N	200#N	.	.	.	.	.
400#N	200#N	2.1	12.9	602	619	0.52
0#N	N+K	11.5	11.5	590	589	0.36
200#N	N+K	10.7	10.7	527	529	0.35
400#N	N+K	11.5	9.2	480	463	0.30

TWO YEAR ABSOLUTE RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	-5.4	0.2	41	-6	-0.04
OLD 400#N	.	.	.	.	.
400#N-200#N	.	.	.	.	.
NEW 200#N	.	.	.	.	.
N+K ON CONT	-0.8	1.7	125	100	0.03
N+K CN TREAT	3.8	0.7	21	46	0.06
NEW 200#K	9.4	-3.7	-122	-151	-0.22

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	-43.9	2.0	8.8	-1.2	-12.1
OLD 400#N	.	.	.	.	.
400#N-200#N	.	.	.	.	.
NEW 200#N	.	.	.	.	.
N+K ON CONT	-6.5	17.3	26.9	20.4	9.1
N+K CN TREAT	55.1	7.0	4.2	9.5	20.7
NEW 200#K	447.6	-28.7	-20.3	-24.4	-42.3

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT
 INSTALLATION 207 WANA

REGION: NORTHEAST OREGON OWNERSHIP: POTLATCH
 LEGAL DESCRIPTION: T33N R4W SECTION 10 MERIDIAN: BOISE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	61 YEARS
TREES PER ACRE	230 TREES/ACRE
BASAL AREA	156.3 SQ. FEET/ACRE
TOTAL VOLUME	4349 CU. FEET/ACRE
CCF	165.3
RELATIVE DENSITY INDEX	46.6
MEAN DIAMETER	11.1 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
 BASAL AREA OF 156.3 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	-5.7	5.5	-116	243	0.23
200#N	NONE	-36.3	5.2	-334	210	0.65
400#N	NONE	8.1	6.7	277	280	0.24
200#N	200#N	.	.	.	.	.
400#N	200#N	.	.	.	.	.
0#N	N+K	-39.6	4.1	-1152	191	-0.13
200#N	N+K	-17.3	4.3	-356	198	0.90
400#N	N+K	-15.3	6.6	-291	264	0.67

TWO YEAR ABSOLUTE RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	-30.6	-0.3	-718	-33	0.42
OLD 400#N	13.8	1.2	393	37	0.01
400#N-200#N	44.4	1.5	1111	70	-0.41
NEW 200#N	.	.	.	.	.
N+K ON CONT	-33.9	-1.4	-1036	-52	-0.36
N+K ON TREAT	-2.2	-0.5	-45	-14	0.44
NEW 200#K	.	.	.	.	.

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	-536.8	-5.5	-619.0	-13.6	182.6
OLD 400#N	242.1	21.8	338.8	15.2	4.3
400#N-200#N	122.3	28.8	133.2	33.3	-63.1
NEW 200#N	.	.	.	.	.
N+K ON CONT	-594.7	-25.5	-893.1	-21.4	-156.5
N+K ON TREAT	-15.6	-3.4	-16.2	-5.7	93.9
NEW 200#K	.	.	.	.	.

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT
 INSTALLATION 208 LOVELL VALLEY ROAD

REGION: NORTHERN IDAHO OWNERSHIP: POLLATCH
 LEGAL DESCRIPTION: T46N R5W SECTION 25 MERIDIAN: BOISE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	94 YEARS
TREES PER ACRE	145 TREES/ACRE
BASAL AREA	208.1 SQ. FEET/ACRE
TOTAL VOLUME	7523 CU. FEET/ACRE
CCF	187.4
RELATIVE DENSITY INDEX	51.4
MEAN DIAMETER	16.6 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
 BASAL AREA OF 208.1 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	-5.1	7.7	-179	319	0.60
200#N	NONE	.	.	.	.	.
400#N	NONE	1.8	7.5	384	349	0.31
200#N	200#N	6.7	8.3	407	397	0.30
400#N	200#N	11.3	8.3	370	380	0.35
0#N	N+K	9.0	8.8	421	440	0.43
200#N	N+K	8.8	8.6	448	438	0.36
400#N	N+K	.	.	.	.	.

TWO YEAR ABSOLUTE RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	.	.	.	.	.
OLD 400#N	6.9	-0.2	563	30	-0.29
400#N-200#N	.	.	.	.	.
NEW 200#N	9.5	0.8	-14	31	0.04
N+K ON CONT	14.1	1.1	600	121	-0.17
N+K ON TREAT	.	.	.	.	.
NEW 200#K	2.1	-0.3	41	41	0.06

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	.	.	.	.	.
OLD 400#N	135.3	-2.6	314.5	9.4	-48.3
400#N-200#N	.	.	.	.	.
NEW 200#N	527.8	10.7	-3.6	8.3	12.9
N+K ON CONT	276.5	14.3	335.2	37.9	-28.3
N+K ON TREAT	.	.	.	.	.
NEW 200#K	31.3	-3.4	10.1	10.3	20.0

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 209

ADDEY

REGION: NORTHEAST WASHINGTON OWNERSHIP: BOISE CASCADE
LEGAL DESCRIPTION: T34N R33E SECTION 27 MERIDIAN: WILLAMETTE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	74 YEARS
TREES PER ACRE	178 TREES/ACRE
BASAL AREA	163.9 SQ. FEET/ACRE
TOTAL VOLUME	5431 CU. FEET/ACRE
CCF	170.7
RELATIVE DENSITY INDEX	45.4
MEAN DIAMETER	13.0 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 163.9 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	4.7	4.8	263	262	0.17
200#N	NONE					
400#N	NONE	8.4	4.8	235	242	0.17
200#N	200#N	0.7	4.3	268	256	0.22
400#N	200#N					
0#N	N+K	5.2	5.3	301	316	0.19
200#N	N+K	6.4	6.4	320	323	0.26
400#N	N+K	3.9	5.3	261	269	0.21

TWO YEAR ABSOLUTE RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N					
OLD 400#N	3.7	0.0	-28	-20	0.00
400#N-200#N	.	.	.	.	.
NEW 200#N					
N+K ON CONT	0.5	0.5	38	54	0.02
N+K ON TREAT	-4.5	0.5	26	27	0.04
NEW 200#K	5.7	2.1	32	67	0.04

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N					
OLD 400#N	78.7	0.0	-10.6	-7.6	0.0
400#N-200#N	.	.	.	.	.
NEW 200#N					
N+K ON CONT	10.6	10.4	14.4	20.6	11.8
N+K ON TREAT	-53.6	10.4	11.1	11.2	23.5
NEW 200#K	814.3	48.3	19.4	26.2	13.2

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT
 INSTALLATION 210 BUCK CREEK

REGION: NORTHEAST WASHINGTON OWNERSHIP: INLAND EMPIRE
 LEGAL DESCRIPTION: T31N R43E SECTION 26 MERIDIAN: WILLAMETTE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	60 YEARS
TREES PER ACRE	242 TREES/ACRE
BASAL AREA	154.6 SQ.FEET/ACRE
TOTAL VOLUME	4110 CU.FEET/ACRE
CCF	165.6
RELATIVE DENSITY INDEX	46.9
MEAN DIAMETER	10.9 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
 BASAL AREA OF 154.6 SQ.FEET/ACRE

		TWO YEAR GROWTH/ACRE				
TREATMENTS		NET	GROSS	NET	GROSS	MEAN
OLD	NEW	BA	BA	VOLUME	VOLUME	DIAMETER
0#N	NONE	3.8	4.4	206	224	0.34
200#N	NONE	-2.2	5.8	276	225	0.21
400#N	NONE	.	.	.	.	.
200#N	200#N	.	.	.	.	.
400#N	200#N	9.4	8.5	364	370	0.34
0#N	N+K	7.2	7.2	330	331	0.26
200#N	N+K	6.6	7.2	322	331	0.42
400#N	N+K	6.4	5.7	261	256	0.19

TWO YEAR ABSOLUTE RESPONSE/ACRE					
EFFECT		NET	GROSS	NET	GROSS
		BA	BA	VOLUME	VOLUME
OLD 200#N		-6.0	1.4	70	1
OLD 400#N		.	.	.	.
400#N-200#N		.	.	.	.
NEW 200#N		.	.	.	.
N+K ON CONT		3.4	2.8	124	107
N+K ON TREAT		8.8	1.4	46	106
NEW 200#K		-3.0	-2.8	-103	-114

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT		NET	GROSS	NET	GROSS
		BA	BA	VOLUME	VOLUME
OLD 200#N		-157.9	31.8	34.0	0.4
OLD 400#N		.	.	.	.
400#N-200#N		.	.	.	.
NEW 200#N		.	.	.	.
N+K ON CONT		89.5	63.6	60.2	47.6
N+K ON TREAT		400.0	24.1	15.7	47.1
NEW 200#K		-31.9	-32.9	-28.3	-30.3

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 211

HEML CREEK

REGION: NORTHEAST WASHINGTON OWNERSHIP: INLAND EMPIRE

LEGAL DESCRIPTION: T31N R43E SECTION 20 MERIDIAN: WILLAMETTE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	40 YEARS
TREES PER ACRE	412 TREES/ACRE
BASAL AREA	204.0 SQ. FEET/ACRE
TOTAL VOLUME	5030 CU. FEET/ACRE
CCF	233.5
RELATIVE DENSITY INDEX	65.9
MEAN DIAMETER	9.7 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 204.0 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	7.1	10.3	342	407	0.36
200#N	NONE					
400#N	NONE	-2.1	11.4	59	453	0.34
200#N	200#N	1.9	13.9	198	481	0.40
400#N	200#N	9.4	12.6	292	487	0.54
0#N	N+K	4.2	14.9	253	516	0.18
200#N	N+K	6.4	14.0	371	525	0.49
400#N	N+K	.	.	.	.	.

TWO YEAR ABSOLUTE RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N					
OLD 400#N	-9.2	1.1	-283	46	0.43
400#N-200#N					
NEW 200#N	11.5	2.4	240	34	-0.30
N+K ON CONT	-2.9	4.6	-84	109	-0.18
N+K ON TREAT					
NEW 200#K	4.5	0.1	173	44	0.09

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N					
OLD 400#N	-129.6	10.7	-82.7	11.3	133.3
400#N-200#N					
NEW 200#N	547.6	21.1	406.8	7.5	-35.7
N+K ON CONT	-40.8	44.7	-24.6	26.8	-50.0
N+K ON TREAT					
NEW 200#K	236.3	0.7	87.4	9.1	22.5

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 212

SWAMP CREEK

REGION: NORTHEAST OREGON

OWNERSHIP: BOISE CASCADE

LEGAL DESCRIPTION: T1N R45E SECTION 5 MERIDIAN: WILLAMETTE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	77 YEARS
TREES PER ACRE	197 TREES/ACRE
BASAL AREA	99.6 SQ. FEET/ACRE
TOTAL VOLUME	2475 CU. FEET/ACRE
CCF	116.3
RELATIVE DENSITY INDEX	32.0
MEAN DIAMETER	9.6 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 99.6 SQ. FEET/ACRE

		TWO YEAR GROWTH/ACRE				
TREATMENTS		NET	GROSS	NET	GROSS	MEAN
OLD	NEW	BA	BA	VOLUME	VOLUME	DIAMETER
0#N	NONE	4.2	4.7	183	182	0.24
200#N	NONE	6.7	5.8	199	186	0.26
400#N	NONE	3.9	4.8	162	165	0.25
200#N	200#N	5.2	5.6	172	174	0.27
400#N	200#N	5.2	4.8	157	166	0.25
0#N	N+K	6.7	3.9	226	230	0.31
200#N	N+K	.	.	.	.	.
400#N	N+K	.	.	.	.	.

TWO YEAR ABSOLUTE RESPONSE/ACRE					
EFFECT	NET	GROSS	NET	GROSS	MEAN
	BA	BA	VOLUME	VOLUME	DIAMETER
OLD 200#N	2.5	1.1	6	4	0.02
OLD 400#N	-0.3	0.1	-21	-17	0.01
400#N-200#N	-2.8	-1.0	-27	-21	-0.01
NEW 200#N	-0.1	-0.1	-11	-6	0.00
N+K ON CONT	2.5	2.1	43	48	0.07
N+K CN TREAT	.	.	.	.	.
NEW 200#K	.	.	.	.	.

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT	NET	GROSS	NET	GROSS	MEAN
	BA	BA	VOLUME	VOLUME	DIAMETER
OLD 200#N	59.5	23.4	3.3	2.2	8.3
OLD 400#N	-7.1	2.1	-11.5	-9.3	4.2
400#N-200#N	-41.8	-17.2	-14.3	-11.3	-3.8
NEW 200#N	-1.9	-1.9	-6.3	-3.1	2.0
N+K ON CONT	59.5	44.7	23.5	26.4	29.2
N+K CN TREAT	.	.	.	.	.
NEW 200#K	.	.	.	.	.

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 213

KAMELA

REGION: NORTHEAST OREGON

OWNEERSHIP: BOISE CASCADE

LEGAL DESCRIPTION: T2S R35E SECTION 3 MERIDIAN: WILLAMETTE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	107	YEARS
TREES PER ACRE	99.6	TREES/ACRE
BASAL AREA	3222	SQ. FEET/ACRE
TOTAL VOLUME	27.4	CU. FEET/ACRE
CCF	27.5	
RELATIVE DENSITY INDEX	13.1	INCHES
MEAN DIAMETER		

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 99.6 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	2.3	2.5	118	117	0.16
200#N	NONE	17.7	3.7	550	151	0.33
400#N	NONE	9.1	3.2	199	153	0.16
200#N	200#N	.	.	.	.	.
400#N	200#N	.	.	.	.	.
0#N	N+K	5.0	4.3	204	196	0.36
200#N	N+K	5.2	5.2	224	223	0.33
400#N	N+K	4.7	5.3	219	229	0.36

TWO YEAR ABSOLUTE RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	15.4	1.2	432	34	0.22
OLD 400#N	6.9	0.7	31	36	0.00
400#N-200#N	-8.6	-0.5	-351	2	-0.22
NEW 200#N	.	.	.	.	.
N+K ON CONT	2.7	2.3	36	79	0.20
N+K ON TREAT	-8.4	2.1	-154	74	0.07
NEW 200#K	.	.	.	.	.

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	669.6	48.0	366.1	29.1	137.3
OLD 400#N	295.7	28.0	68.6	30.8	0.0
400#N-200#N	-48.6	-13.5	-63.8	1.3	-57.9
NEW 200#N	.	.	.	.	.
N+K ON CONT	117.4	92.0	72.9	67.5	125.0
N+K ON TREAT	-63.1	60.9	-41.0	48.7	27.8
NEW 200#K	.	.	.	.	.

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 214

FIFTEENMILE CREEK #1

REGION: NORTHEAST WASHINGTON OWNERSHIP: BOISE CASCADE

LEGAL DESCRIPTION: T39N R37E SECTION 25 MERIDIAN: WILLAMETTE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	50 YEARS
TREES PER ACRE	202 TREES/ACRE
BASAL AREA	125.3 SQ. FEET/ACRE
TOTAL VOLUME	308.0 CU. FEET/ACRE
CCF	142.8
RELATIVE DENSITY INDEX	38.2
MEAN DIAMETER	10.7 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 125.3 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	8.2	8.0	283	285	0.36
200#N	NONE	6.2	6.8	264	263	0.29
400#N	NONE	1.2	8.8	271	295	0.49
200#N	200#N	12.0	10.4	357	352	0.42
400#N	200#N	8.9	8.9	300	299	0.37
0#N	N+K	10.0	10.0	336	336	0.47
200#N	N+K	.	.	.	.	.
400#N	N+K	.	.	.	.	.

TWO YEAR ABSOLUTE RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	-2.0	-1.2	-19	-22	-0.07
OLD 400#N	-7.0	0.8	-12	10	0.13
400#N-200#N	-5.0	2.0	7	32	0.20
NEW 200#N	6.7	1.8	61	47	0.01
N+K ON CONT	1.8	2.0	53	51	0.11
N+K ON TREAT	.	.	.	.	.
NEW 200#K	.	.	.	.	.

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	-24.4	-15.0	-6.7	-7.7	-19.4
OLD 400#N	-85.4	10.0	-4.2	3.5	36.1
400#N-200#N	-80.6	29.4	2.7	12.2	69.0
NEW 200#N	182.4	23.7	22.8	16.7	1.3
N+K ON CONT	22.0	25.0	18.7	17.9	30.6
N+K ON TREAT	.	.	.	.	.
NEW 200#K	.	.	.	.	.

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 215

FIFTEENMILE CREEK #2

REGION: NORTHEAST WASHINGTON OWNERSHIP: BOISE CASCADE

LEGAL DESCRIPTION: T39N R37E SECTION 25 MERIDIAN: WILLAMETTE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	57 YEARS
TREES PER ACRE	213 TREES/ACRE
BASAL AREA	106.4 SQ. FEET/ACRE
TOTAL VOLUME	2478 CU. FEET/ACRE
CCF	128.7
RELATIVE DENSITY INDEX	34.4
MEAN DIAMETER	9.6 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 106.4 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	8.7	8.4	267	268	0.35
200#N	NONE	3.6	7.9	254	257	0.34
400#N	NONE					
200#N	200#N	4.2	8.8	171	281	0.41
400#N	200#N	6.6	7.5	289	276	0.27
0#N	N+K	8.5	8.7	270	276	0.40
200#N	N+K					
400#N	N+K	9.0	3.1	285	277	0.42

TWO YEAR ABSOLUTE RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	-5.1	-0.5	-13	-11	-0.01
OLD 400#N	.	.	.	.	.
400#N-200#N	.	.	.	.	.
NEW 200#N	0.6	0.9	-83	24	0.07
N+K ON CONT	-0.2	0.3	3	8	0.05
N+K ON TREAT					
NEW 200#K	2.4	0.6	-4	1	0.15

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	-58.6	-6.0	-4.9	-4.1	-2.9
OLD 400#N	.	.	.	.	.
400#N-200#N	.	.	.	.	.
NEW 200#N	16.7	11.4	-32.7	3.3	20.6
N+K ON CONT	-2.3	3.6	1.1	3.0	14.3
N+K ON TREAT					
NEW 200#K	36.4	8.0	-1.4	0.4	55.6

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 216

SCHMIDT MEADOWS

REGION: NORTHEAST WASHINGTON

OWNERSHIP: POISE CASCADE

LEGAL DESCRIPTION: T32N R38E SECTION 28 MERIDIAN: WILLAMETTE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	72 YEARS
TREES PER ACRE	258 TREES/ACRE
BASAL AREA	157.5 SQ. FEET/ACRE
TOTAL VOLUME	4599 CU. FEET/ACRE
CCF	176.0
RELATIVE DENSITY INDEX	48.3
MEAN DIAMETER	10.6 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 157.5 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	4.2	4.7	226	222	0.16
200#N	NONE	4.6	4.2	227	229	0.15
400#N	NONE	-1.9	5.6	7	229	0.25
200#N	200#N	.	.	.	.	.
400#N	200#N	.	.	.	.	.
0#N	N+K	6.1	6.1	291	234	0.20
200#N	N+K	6.8	6.8	325	330	0.21
400#N	N+K	0.2	5.7	132	259	0.30

TWO YEAR ABSOLUTE RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	0.4	-0.5	1	7	-0.01
OLD 400#N	-6.1	0.9	-219	7	0.09
400#N-200#N	-6.5	1.4	-220	0	0.10
NEW 200#N	.	.	.	.	.
N+K CN CONT	1.9	1.4	65	62	0.04
N+K ON TREAT	2.1	1.3	112	66	0.05
NEW 200#K	.	.	.	.	.

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	9.5	-10.6	0.4	3.2	-8.2
OLD 400#N	-145.2	19.1	-96.9	3.2	56.3
400#N-200#N	-141.3	33.3	-96.9	0.0	66.7
NEW 200#N	.	.	.	.	.
N+K CN CONT	45.2	29.3	28.3	27.9	25.0
N+K CN TREAT	159.3	27.6	95.3	28.0	27.5
NEW 200#K	.	.	.	.	.

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 217

EMANUEL CREEK

REGION: NORTHEAST WASHINGTON

OWNERSHIP: BOISE CASCADE

LEGAL DESCRIPTION: T39N R33E SECTION 29

MERIDIAN: WILLAMETTE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	81 YEARS
TREES PER ACRE	215 TREES/ACRE
BASAL AREA	138.2 SQ. FEET/ACRE
TOTAL VOLUME	3585 CU. FEET/ACRE
CCF	153.0
RELATIVE DENSITY INDEX	41.8
MEAN DIAMETER	11.0 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 138.2 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	3.2	3.5	189	187	0.12
200#N	NONE	4.2	5.0	198	196	0.18
400#N	NONE	2.8	6.1	241	237	0.24
200#N	200#N	.	.	.	.	.
400#N	200#N	.	.	.	.	.
0#N	N+K	6.1	6.0	253	241	0.24
200#N	N+K	7.3	7.3	284	287	0.29
400#N	N+K	5.1	4.3	243	237	0.20

EFFECT		TWO YEAR ABSOLUTE RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		1.0	1.5	9	9	0.06
OLD 400#N		-0.4	2.6	52	50	0.12
400#N-200#N		-1.4	1.1	43	41	0.06
NEW 200#N						
N+K ON CONT		2.9	2.5	64	54	0.12
N+K ON TREAT		2.7	0.2	44	46	0.04
NEW 200#K		.	.	.	.	.

EFFECT		TWO YEAR PERCENT RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		31.3	42.9	4.8	4.8	50.0
OLD 400#N		-12.5	74.3	27.5	26.7	100.0
400#N-200#N		-33.3	22.0	21.7	20.9	33.3
NEW 200#N		.	.	.	.	.
N+K ON CONT		90.6	71.4	33.9	28.9	100.0
N+K ON TREAT		77.1	4.5	20.0	21.0	16.7
NEW 200#K		.	.	.	.	.

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 218

SECOND CREEK

REGION: NORTHEAST WASHINGTON OWNERSHIP: BOISE CASCADE
LEGAL DESCRIPTION: T39N R34E SECTION 13 MERIDIAN: WILLAMETTE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	106 YEARS
TREES PER ACRE	152 TREES/ACRE
BASAL AREA	120.2 SQ. FEET/ACRE
TOTAL VOLUME	3032 CU. FEET/ACRE
CCF	130.5
RELATIVE DENSITY INDEX	34.6
MEAN DIAMETER	12.1 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 120.2 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	-7.5	4.2	-123	123	0.72
200#N	NONE	5.3	3.6	135	134	0.17
400#N	NONE	5.1	5.1	178	173	0.26
200#N	200#N	3.4	4.0	137	138	0.21
400#N	200#N	5.3	4.6	156	167	0.27
0#N	N+K	5.0	5.9	217	209	0.30
200#N	N+K	:	:	:	:	:
400#N	N+K	:	:	:	:	:

EFFECT		TWO YEAR ABSOLUTE RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		12.8	-0.6	258	11	-0.55
OLD 400#N		12.6	0.9	301	55	-0.46
400#N-200#N		-0.2	1.5	43	44	0.09
NEW 200#N		-0.8	-0.0	-10	-4	0.02
N+K ON CONT		13.5	1.7	340	86	-0.42
N+K ON TREAT		:	:	:	:	:
NEW 200#K		:	:	:	:	:

EFFECT		TWO YEAR PERCENT RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		170.7	-14.3	209.8	8.9	-76.4
OLD 400#N		168.0	21.4	244.7	44.7	-63.9
400#N-200#N		-3.3	41.7	31.9	32.8	52.9
NEW 200#N		-16.3	-1.1	-6.4	-2.2	11.6
N+K ON CONT		180.0	40.5	276.4	69.9	-58.3
N+K ON TREAT		:	:	:	:	:
NEW 200#K		:	:	:	:	:

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT
 INSTALLATION 219 LITTLE SALMON
 REGION: CENTRAL IDAHO OWNERSHIP: BOISE CASCADE
 LEGAL DESCRIPTION: T18N R1E SECTION 13 MERIDIAN: BOISE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	73 YEARS
TREES PER ACRE	242 TREES/ACRE
BASAL AREA	155.2 SQ. FEET/ACRE
TOTAL VOLUME	3849 CU. FEET/ACRE
CCF	161.0
RELATIVE DENSITY INDEX	47.0
MEAN DIAMETER	10.9 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
 BASAL AREA OF 155.2 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	8.6	6.5	215	229	0.72
200#N	NONE	3.0	7.2	281	269	0.25
400#N	NONE	8.7	7.5	290	291	0.30
200#N	200#N	-0.1	8.4	168	291	0.47
400#N	200#N	7.5	7.5	260	254	0.25
0#N	N+K	8.8	3.3	274	272	0.31
200#N	N+K	.	.	.	.	.
400#N	N+K	.	.	.	.	.

EFFECT		TWO YEAR ABSOLUTE RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		-5.6	0.7	66	40	0.03
OLD 400#N		-3.1	1.2	-113	22	0.22
400#N-200#N		-1.1	1.0	45	25	0.03
NEW 200#N		0.1	1.3	-16	-19	0.01
N+K ON CONT						
N+K ON TREAT						
NEW 200#K						

EFFECT		TWO YEAR PERCENT RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		-65.1	10.8	30.7	17.5	13.6
OLD 400#N		-103.3	16.7	-40.2	3.2	88.0
400#N-200#N		-12.8	15.4	20.9	10.9	13.6
NEW 200#N		1.1	17.3	-5.5	-6.5	3.3
N+K ON CONT						
N+K ON TREAT						
NEW 200#K						

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 220

GROUSE CREEK

REGION: CENTRAL IDAHO

OWNERSHIP: IDL

LEGAL DESCRIPTION: T16N R4E SECTION 36 MERIDIAN: BOISE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	95 YEARS
TREES PER ACRE	262 TREES/ACRE
BASAL AREA	121.7 SQ. FEET/ACRE
TOTAL VOLUME	3803 CU. FEET/ACRE
CCF	145.6
RELATIVE DENSITY INDEX	39.9
MEAN DIAMETER	9.3 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 121.7 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	5.8	5.8	158	158	0.23
200#N	NONE	2.2	4.3	136	136	0.19
400#N	NONE	3.7	5.7	141	143	0.20
200#N	200#N	9.1	8.2	280	278	0.36
400#N	200#N	6.0	5.8	158	175	0.35
0#N	N+K	-1.8	6.7	-75	173	0.13
200#N	N+K	:	:	:	:	:
400#N	N+K	:	:	:	:	:

TWO YEAR ABSOLUTE RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	-3.6	-1.5	-22	-22	-0.04
OLD 400#N	-2.1	-0.1	-17	-15	-0.03
400#N-200#N	1.5	1.4	5	7	0.01
NEW 200#N	4.6	2.0	81	87	0.16
N+K ON CONT	-7.6	0.9	-233	15	-0.10
N+K ON TREAT	:	:	:	:	:
NEW 200#K	:	:	:	:	:

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	-62.1	-25.9	-13.9	-13.9	-17.4
OLD 400#N	-36.2	-1.7	-10.8	-9.5	-13.0
400#N-200#N	68.2	32.6	3.7	5.1	5.3
NEW 200#N	155.9	40.0	58.1	62.4	82.1
N+K ON CONT	-131.0	15.5	-147.5	9.5	-43.5
N+K ON TREAT	:	:	:	:	:
NEW 200#K	:	:	:	:	:

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT
 INSTALLATION 221 LITTLE MUD CREEK #1

REGION: CENTRAL IDAHO OWNERSHIP: BOISE CASCADE
 LEGAL DESCRIPTION: T20N R1E SECTION 33 MERIDIAN: BOISE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	88 YEARS
TREES PER ACRE	178 TREES/ACRE
BASAL AREA	138.8 SQ. FEET/ACRE
TOTAL VOLUME	3626 CU. FEET/ACRE
CCF	143.9
RELATIVE DENSITY INDEX	40.0
MEAN DIAMETER	12.0 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
 BASAL AREA OF 138.8 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	5.9	7.3	274	262	0.28
200#N	NONE	13.9	9.8	328	333	0.42
400#N	NONE	11.7	9.5	303	303	0.37
200#N	200#N	9.0	9.2	233	283	0.40
400#N	200#N	-1.2	7.2	-95	241	0.28
0#K	N+K	7.4	7.3	281	266	0.35
200#N	N+K	:	:	:	:	:
400#N	N+K	:	:	:	:	:

EFFECT		TWO YEAR ABSOLUTE RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		8.0	2.5	54	71	0.14
OLD 400#N		5.8	2.2	29	41	0.09
400#N-200#N		-2.2	-0.3	-25	-30	-0.05
NEW 200#N		-8.9	-1.5	-222	-56	-0.06
N+K ON CONT		1.5	0.0	7	4	0.07
N+K ON TREAT		:	:	:	:	:
NEW 200#K		:	:	:	:	:

EFFECT		TWO YEAR PERCENT RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		135.6	34.2	19.7	27.1	50.0
OLD 400#N		98.3	30.1	10.6	15.6	32.1
400#N-200#N		-15.8	-3.1	-7.6	-9.0	-11.9
NEW 200#N		-69.5	-15.0	-70.2	-17.6	-13.9
N+K ON CONT		25.4	0.0	2.6	1.5	25.0
N+K ON TREAT		:	:	:	:	:
NEW 200#K		:	:	:	:	:

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 222

WEST MILL CREEK #1

REGION: CENTRAL IDAHO

OWNERSHIP: IDL

LEGAL DESCRIPTION: T18N R3W SECTION 36 MERIDIAN: BOISE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	77 YEARS
TREES PER ACRE	353 TREES/ACRE
BASAL AREA	163.4 SQ. FEET/ACRE
TOTAL VOLUME	3953 CU. FEET/ACRE
CCF	189.4
RELATIVE DENSITY INDEX	53.5
MEAN DIAMETER	9.5 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 163.4 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	6.1	5.0	176	186	0.12
200#N	NONE	8.9	4.3	134	154	0.12
400#N	NONE	.	.	.	.	.
200#K	200#K	.	.	.	.	.
400#N	200#N	0.2	4.5	87	124	0.20
0#N	N+K	5.8	5.8	192	178	0.17
200#N	N+K	4.9	5.0	174	173	0.14
400#N	N+K	5.2	5.6	229	232	0.19

TWO YEAR ABSOLUTE RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	2.8	-0.7	-42	-32	0.00
OLD 400#N	.	.	.	.	.
400#N-200#N	.	.	.	.	.
NEW 200#N	.	.	.	.	.
N+K ON CONT	-0.3	0.8	15	-8	0.05
N+K ON TREAT	-4.0	0.7	40	24	0.02
NEW 200#K	5.0	1.1	142	108	-0.01

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	45.9	-14.0	-23.9	-17.2	0.0
OLD 400#N	.	.	.	.	.
400#N-200#N	.	.	.	.	.
NEW 200#N	.	.	.	.	.
N+K ON CONT	-4.9	16.0	9.1	-4.3	41.7
N+K ON TREAT	-44.9	16.3	29.9	15.6	16.7
NEW 200#K	2500.0	24.4	163.2	87.1	-5.0

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 223

WEST HILL CREEK #2

REGION: CENTRAL IDAHO

OWNERSHIP: IDL

LEGAL DESCRIPTION: T18N R3W SECTION 36 MERIDIAN: BOISE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	81 YEARS
TREES PER ACRE	223 TREES/ACRE
BASAL AREA	136.4 SQ. FEET/ACRE
TOTAL VOLUME	3583 CU. FEET/ACRE
CCF	145.6
RELATIVE DENSITY INDEX	41.6
MEAN DIAMETER	10.7 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 136.4 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	6.3	6.1	208	210	0.21
200#N	NONE	9.0	5.4	187	190	0.17
400#N	NONE	-4.8	5.2	-42	213	0.14
200#N	200#N	.	.	.	.	.
400#N	200#N	.	.	.	.	.
0#N	N+K	5.0	4.9	172	164	0.24
200#N	N+K	7.8	7.8	288	285	0.30
400#N	N+K	5.7	4.5	167	157	0.15

TWO YEAR ABSOLUTE RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	2.7	-0.7	-21	-20	-0.04
OLD 400#N	-11.1	-0.9	-250	3	-0.07
400#N-200#N	-13.8	-0.2	-229	23	-0.03
NEW 200#N	.	.	.	.	.
N+K ON CONT	-1.3	-1.2	-36	-46	0.03
N+K ON TREAT	4.6	0.8	155	20	0.07
NEW 200#K	.	.	.	.	.

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	-42.9	-11.5	-10.1	-9.5	-19.0
OLD 400#N	-176.2	-14.8	-120.2	1.4	-33.3
400#N-200#N	-153.3	-3.7	-122.5	12.1	-17.6
NEW 200#N	.	.	.	.	.
N+K ON CONT	-20.6	-19.7	-17.3	-21.9	14.3
N+K ON TREAT	221.4	16.0	213.8	9.7	45.2
NEW 200#K	.	.	.	.	.

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 224

KAISER BUTTE #1

REGION: CENTRAL WASHINGTON

OWNERSHIP: BOISE CASCADE

LEGAL DESCRIPTION: T6N R15E SECTION 20 MERIDIAN: WILLAMETTE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	80 YEARS
TREES PER ACRE	101 TREES/ACRE
BASAL AREA	187.2 SQ. FEET/ACRE
TOTAL VOLUME	7283 CU. FEET/ACRE
CCF	156.9
RELATIVE DENSITY INDEX	43.5
MEAN DIAMETER	18.5 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 187.2 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	10.5	3.0	338	363	0.40
200#N	NONE	-1.7	9.7	541	435	0.45
400#N	NONE	3.1	6.8	348	330	0.35
200#N	200#N	9.7	10.1	443	447	0.44
400#N	200#N	9.5	3.0	371	378	0.42
0#N	N+K	9.0	3.0	417	419	0.44
200#N	N+K	.	.	.	.	.
400#N	N+K	.	.	.	.	.

TWO YEAR ABSOLUTE RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	-12.2	1.7	203	72	0.05
OLD 400#N	-7.4	-1.2	10	-33	-0.05
400#N-200#N	4.8	-2.9	-193	-105	-0.10
NEW 200#N	8.9	0.8	-35	30	0.03
N+K ON CONT	-1.5	1.0	79	56	0.04
N+K ON TREAT	.	.	.	.	.
NEW 200#K	.	.	.	.	.

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	-116.2	21.2	60.1	19.8	12.5
OLD 400#N	-70.5	-15.0	3.0	-9.1	-12.5
400#N-200#N	282.4	-29.9	-35.7	-24.1	-22.2
NEW 200#N	1271.4	9.7	-7.9	7.8	7.5
N+K ON CONT	-14.3	12.5	23.4	15.4	10.0
N+K ON TREAT	.	.	.	.	.
NEW 200#K	.	.	.	.	.

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 225

BOWMAN CREEK

REGION: CENTRAL WASHINGTON

OWNERSHIP: BOISE CASCADE

LEGAL DESCRIPTION: T5N R15E SECTION 18 MERIDIAN: WILLAMETTE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	91 YEARS
TREES PER ACRE	167 TREES/ACRE
BASAL AREA	142.4 SQ. FEET/ACRE
TOTAL VOLUME	3948 CU. FEET/ACRE
CCF	148.4
RELATIVE DENSITY INDEX	30.3
MEAN DIAMETER	12.7 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 142.4 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	8.5	7.3	273	281	0.31
200#N	NONE					
400#N	NONE	6.2	7.4	291	290	0.32
200#N	200#N	4.4	7.7	284	273	0.35
400#N	200#N					
0#N	N+K	8.8	8.8	371	374	0.40
200#N	N+K	8.7	8.7	342	343	0.39
400#N	N+K	10.1	9.4	353	340	0.41

TWO YEAR ABSOLUTE RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N					
OLD 400#N	-2.3	0.1	18	9	0.01
400#N-200#N	.	.	.	.	.
NEW 200#N					
N+K ON CONT	0.3	1.5	98	93	0.09
N+K ON TREAT	3.9	2.0	62	58	0.09
NEW 200#K	4.3	1.0	58	65	0.04

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N					
OLD 400#N	-27.1	1.4	6.6	3.2	3.2
400#N-200#N	.	.	.	.	.
NEW 200#N					
N+K ON CONT	3.5	20.5	35.0	33.1	29.0
N+K ON TREAT	62.9	27.0	21.3	20.0	28.1
NEW 200#K	97.7	13.0	20.4	23.4	11.4

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 226

CLEMAN MTN

REGION: CENTRAL WASHINGTON

OWNERSHIP: BOISE CASCADE

LEGAL DESCRIPTION: T16N R15E SECTION 16 MERIDIAN: WILLAMETTE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	35 YEARS
TREES PER ACRE	132 TREES/ACRE
BASAL AREA	110.6 SQ. FEET/ACRE
TOTAL VOLUME	2789 CU. FEET/ACRE
CCF	117.4
RELATIVE DENSITY INDEX	31.4
MEAN DIAMETER	12.4 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 110.6 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	4.4	4.7	177	176	0.27
200#N	NONE	4.1	5.2	170	171	0.30
400#N	NONE	8.2	5.8	199	190	0.31
200#N	200#N	.	.	.	.	.
400#N	200#N	.	.	.	.	.
0#N	N+K	6.3	6.3	207	207	0.35
200#N	N+K	5.6	5.6	187	187	0.33
400#N	N+K	6.9	6.9	224	223	0.36

TWO YEAR ABSOLUTE RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	-0.3	0.5	-7	-5	0.03
OLD 400#N	3.8	1.1	22	14	0.04
400#N-200#N	4.1	0.6	29	19	0.01
NEW 200#N	.	.	.	.	.
N+K ON CONT	1.9	1.6	30	31	0.08
N+K ON TREAT	0.1	0.7	21	25	0.04
NEW 200#K	.	.	.	.	.

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	-6.3	10.6	-4.0	-2.8	11.1
OLD 400#N	86.4	23.4	12.4	8.0	14.8
400#N-200#N	100.0	11.5	17.1	11.1	3.3
NEW 200#N	.	.	.	.	.
N+K ON CONT	43.2	34.0	16.9	17.6	29.6
N+K ON TREAT	1.6	12.7	11.4	13.6	13.1
NEW 200#K	.	.	.	.	.

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 227

JOHNSON CANYON

REGION: CENTRAL WASHINGTON

OWNERSHIP: BOISE CASCADES

LEGAL DESCRIPTION: T16N R15E SECTION 20

MERIDIAN: WILLAMETTE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	86 YEARS
TREES PER ACRE	123 TREES/ACRE
BASAL AREA	121.8 SQ. FEET/ACRE
TOTAL VOLUME	3479 CU. FEET/ACRE
CCF	124.9
RELATIVE DENSITY INDEX	33.1
MEAN DIAMETER	13.4 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 121.3 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	5.7	4.3	178	181	0.22
200#N	NONE	3.5	4.3	159	158	0.24
400#N	NONE	.	.	.	.	.
200#N	200#N	.	.	.	.	.
400#N	200#N	3.6	4.5	197	188	0.25
0#N	N+K	5.3	5.5	208	216	0.27
200#N	N+K	6.0	6.0	231	226	0.33
400#N	N+K	4.9	4.6	177	175	0.24

TWO YEAR ABSOLUTE RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	-2.2	0.0	-19	-23	0.02
OLD 400#N	.	.	.	.	.
400#N-200#N	.	.	.	.	.
NEW 200#N	-0.4	1.2	30	35	0.05
N+K ON CONT	2.5	1.7	72	63	0.09
N+K ON TREAT	1.3	0.1	-20	-13	-0.01

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	-38.6	0.0	-10.7	-12.7	9.1
OLD 400#N	.	.	.	.	.
400#N-200#N	.	.	.	.	.
NEW 200#N	-7.0	27.9	16.9	19.3	22.7
N+K ON CONT	71.4	39.5	45.3	43.0	37.5
N+K ON TREAT	36.1	2.2	-10.2	-6.9	-4.0

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 228

LOOKOUT MTN WEST

REGION: CENTRAL WASHINGTON

OWNERSHIP: WASHINGTON DNT

LEGAL DESCRIPTION: T20N R16E SECTION 36 MERIDIAN: WILLAMETTE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	70 YEARS
TREES PER ACRE	203 TREES/ACRE
BASAL AREA	159.3 SQ. FEET/ACRE
TOTAL VOLUME	4820 CU. FEET/ACRE
CCF	167.4
RELATIVE DENSITY INDEX	45.2
MEAN DIAMETER	12.2 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 159.3 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	7.0	5.9	194	204	0.21
200#N	NONE	8.3	5.5	233	237	0.24
400#N	NONE	-3.5	6.8	-18	277	0.27
200#N	200#N	-43.2	5.7	-1237	225	1.09
400#N	200#N	-2.7	5.5	28	264	0.33
0#N	N+K	4.7	6.8	233	245	0.25
200#N	N+K					
400#N	N+K					

EFFECT		TWO YEAR ABSOLUTE RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		1.3	-0.4	39	33	0.03
OLD 400#N		.	.	.	.	.
400#N-200#N		.	.	.	.	.
NEW 200#N		-50.2	-0.2	-1431	21	0.88
N+K ON CONT		-3.6	1.3	0	8	0.01
N+K ON TREAT		0.8	-1.3	46	-13	0.06
NEW 200#K						

EFFECT		TWO YEAR PERCENT RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		18.6	-6.8	20.1	16.2	14.3
OLD 400#N		.	.	.	.	.
400#N-200#N		.	.	.	.	.
NEW 200#N		-717.1	-3.4	-737.6	10.3	419.0
N+K ON CONT		-43.4	23.6	0.0	3.4	4.2
N+K ON TREAT		22.9	-19.1	255.6	-4.7	22.2
NEW 200#K						

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 229

LOOKOUT MTN EAST

REGION: CENTRAL WASHINGTON

OWNERSHIP: BOISE CASCADE

LEGAL DESCRIPTION: T20N R17E SECTION 31 MERIDIAN: WILLAMETTE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	75 YEARS
TREES PER ACRE	113 TREES/ACRE
BASAL AREA	155.9 SQ. FEET/ACRE
TOTAL VOLUME	5254 CU. FEET/ACRE
CCF	145.4
RELATIVE DENSITY INDEX	39.1
MEAN DIAMETER	15.9 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 155.9 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	6.8	6.6	316	317	0.36
200#N	NONE	8.2	8.7	328	327	0.41
400#N	NONE	8.4	6.7	302	302	0.34
200#N	200#N	7.7	7.6	346	347	0.37
400#N	200#N	7.3	7.3	321	323	0.36
0#N	N+K	6.0	5.9	270	263	0.34
200#N	N+K	.	.	.	.	.
400#N	N+K	.	.	.	.	.

TWO YEAR ABSOLUTE RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	1.4	2.1	12	10	0.05
OLD 400#N	-0.5	-1.1	18	20	-0.04
400#N-200#N	0.5	0.7	5	6	0.00
NEW 200#N	-2.4	-0.8	-32	-39	0.00
N+K ON CONT					
N+K ON TREAT					
NEW 200#K					

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	20.6	31.8	3.8	3.2	13.9
OLD 400#N	-6.1	-12.6	5.5	6.1	-9.8
400#N-200#N	7.4	10.6	1.5	1.9	0.0
NEW 200#N	-28.6	-11.3	-10.6	-12.9	0.0
N+K ON CONT					
N+K ON TREAT					
NEW 200#K					

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 230

M.F. TEAMAWAY RIVER

REGION: CENTRAL WASHINGTON

OWNERSHIP: BOISE CASCADE

LEGAL DESCRIPTION: T21N R15E SECTION 20 MERIDIAN: WILLAMETTE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	37 YEARS
TREES PER ACRE	127 TREES/ACRE
BASAL AREA	151.4 SQ. FEET/ACRE
TOTAL VOLUME	5182 CU. FEET/ACRE
CCF	133.9
RELATIVE DENSITY INDEX	39.2
MEAN DIAMETER	15.0 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 151.4 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	9.8	9.2	415	419	0.40
200#N	NONE	8.7	9.2	445	443	0.47
400#N	NONE					
200#N	200#N	12.6	12.3	541	541	0.53
400#N	200#N	11.7	13.0	571	563	0.57
0#N	N+K	9.2	9.2	442	440	0.48
200#N	N+K					
400#N	N+K	10.3	9.9	444	441	0.56

EFFECT		TWO YEAR ABSOLUTE RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		-1.1	0.0	30	24	0.07
OLD 400#N		.	.	.	.	.
100#N-200#N		.	.	.	.	.
NEW 200#N		3.9	3.1	96	98	0.06
N+K ON CONT		-0.6	0.0	27	21	0.02
N+K CN TREAT		-1.4	-3.1	-127	-122	-0.01
NEW 200#K						

EFFECT		TWO YEAR PERCENT RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		-11.2	0.0	7.2	5.7	17.5
OLD 400#N		.	.	.	.	.
400#N-200#N		.	.	.	.	.
NEW 200#N		44.8	33.7	21.6	22.1	12.8
N+K ON CONT		-6.1	0.0	6.5	5.0	20.0
N+K CN TREAT		-12.0	-23.3	-22.2	-21.7	-1.8
NEW 200#K						

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 231

ELMO

REGION: MONTANA

OWNERSHIP: FLATHEAD (LIA)

LEGAL DESCRIPTION: T24N R21W SECTION 30 MERIDIAN: PRINCIPAL

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	67 YEARS
TREES PER ACRE	168 TREES/ACRE
BASAL AREA	115.0 SQ. FEET/ACRE
TOTAL VOLUME	2834 CU. FEET/ACRE
CCF	126.3
RELATIVE DENSITY INDEX	34.5
MEAN DIAMETER	11.2 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 115.0 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	-0.6	3.8	46	142	0.17
200#N	NONE	7.5	4.8	181	172	0.22
400#N	NONE	-2.8	4.1	21	147	0.35
200#N	200#N	.	.	.	.	.
400#N	200#N	.	.	.	.	.
0#N	N+K	.	.	.	.	.
200#N	N+K	.	.	.	.	.
400#N	N+K	.	.	.	.	.

TWO YEAR ABSOLUTE RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	8.1	1.0	135	30	0.05
OLD 400#N	-2.2	0.3	-25	5	0.18
400#N-200#N	-10.3	-0.7	-160	-25	0.13
NEW 200#N	.	.	.	.	.
N+K ON CONT	.	.	.	.	.
N+K ON TREAT	.	.	.	.	.
NEW 200#K	.	.	.	.	.

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	1350.0	26.3	293.5	21.1	29.4
OLD 400#N	-366.7	7.9	-54.3	3.5	103.9
400#N-200#N	-137.3	-18.6	-88.4	-14.5	59.1
NEW 200#N	.	.	.	.	.
N+K ON CONT	.	.	.	.	.
N+K ON TREAT	.	.	.	.	.
NEW 200#K	.	.	.	.	.

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 232

SUNNY SLOPE

REGION: MONTANA

OWNERSHIP: FLATHEAD (BIA)

LEGAL DESCRIPTION: T23N R21W SECTION 12 MERIDIAN: PRINCIPAL

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	50 YEARS
TREES PER ACRE	195 TREES/ACRE
BASAL AREA	164.5 SQ. FEET/ACRE
TOTAL VOLUME	4748 CU. FEET/ACRE
CCF	170.4
RELATIVE DENSITY INDEX	46.5
MEAN DIAMETER	12.5 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 164.5 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	7.1	7.3	312	310	0.26
200#N	NONE	7.8	7.5	331	332	0.23
400#N	NONE	6.7	7.3	301	304	0.29
200#N	200#N	7.7	9.1	392	389	0.31
400#N	200#N	7.5	9.2	410	402	0.36
0#N	N+K	7.7	7.8	314	328	0.27
200#N	N+K	.	.	.	.	.
400#N	N+K	.	.	.	.	.

TWO YEAR ABSOLUTE RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	0.7	0.2	19	22	0.02
OLD 400#N	1.6	0.0	-11	-6	0.03
400#N-200#N	0.9	-0.2	-30	-28	0.01
NEW 200#N	-0.6	1.7	35	78	0.05
N+K ON CONT	0.6	0.5	2	18	0.01
N+K ON TREAT	.	.	.	.	.
NEW 200#K	.	.	.	.	.

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	9.9	2.7	6.1	7.1	7.7
OLD 400#N	22.5	0.0	-3.5	-1.9	11.5
400#N-200#N	11.5	-2.7	-9.1	-8.4	3.6
NEW 200#N	-7.9	23.6	26.9	24.4	17.5
N+K ON CONT	3.5	6.8	0.6	5.8	3.3
N+K ON TREAT	.	.	.	.	.
NEW 200#K	.	.	.	.	.

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 233

HELLROARING CREEK

REGION: MONTANA

OWNERSHIP: FLATHEAD (BIA)

LEGAL DESCRIPTION: T23N R19W SECTION 33 MERIDIAN: PRINCIPAL

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	60 YEARS
TREES PER ACRE	173 TREES/ACRE
BASAL AREA	169.5 SQ. FEET/ACRE
TOTAL VOLUME	4965 CU. FEET/ACRE
CCF	172.9
RELATIVE DENSITY INDEX	46.3
MEAN DIAMETER	13.4 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 169.5 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	6.2	5.3	251	259	0.21
200#N	NONE	4.6	5.6	294	288	0.23
400#N	NONE	6.6	6.3	253	258	0.26
200#N	200#N	.	.	.	.	.
400#N	200#N	.	.	.	.	.
0#N	N+K	8.0	8.0	392	375	0.27
200#N	N+K	7.9	7.9	353	356	0.29
400#N	N+K	7.9	7.5	318	316	0.30

TWO YEAR ABSOLUTE RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	-1.6	0.3	43	29	0.02
OLD 400#N	0.4	1.0	7	-1	0.05
400#N-200#N	2.0	0.7	-36	-30	0.03
NEW 200#N	.	.	.	.	.
N+K ON CONT	1.8	2.7	141	116	0.06
N+K ON TREAT	2.3	1.8	60	63	0.05
NEW 200#K	.	.	.	.	.

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	-25.8	5.7	17.1	11.2	9.5
OLD 400#N	6.5	13.9	2.8	-0.4	23.8
400#N-200#N	43.5	12.5	-12.2	-10.4	13.0
NEW 200#N	.	.	.	.	.
N+K ON CONT	29.0	50.9	56.2	44.8	28.6
N+K ON TREAT	41.1	29.4	21.6	23.1	20.4
NEW 200#K	"	"	"	"	"

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 234

RONAN

REGION: MONTANA

OWNERSHIP: FLATHEAD (DIA)

LEGAL DESCRIPTION: 120N R19W SECTION 5 MERIDIAN: PRINCIPAL

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	65 YEARS
TREES PER ACRE	175 TREES/ACRE
BASAL AREA	153.7 SQ. FEET/ACRE
TOTAL VOLUME	4491 CU. FEET/ACRE
CCF	154.1
RELATIVE DENSITY INDEX	43.1
MEAN DIAMETER	12.7 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 153.7 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	4.5	5.2	262	255	0.21
200#N	NONE	3.0	4.5	247	240	0.18
400#N	NONE	.	.	.	.	.
200#N	200#N	.	.	.	.	.
400#N	200#N	.	.	.	.	.
0#N	N+K	.	.	.	.	.
200#N	N+K	.	.	.	.	.
400#N	N+K	.	.	.	.	.

EFFECT		TWO YEAR ABSOLUTE RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		-1.5	-0.7	-15	-15	-0.03
OLD 400#N		.	.	.	.	.
400#N-200#N		.	.	.	.	.
NEW 200#N		.	.	.	.	.
N+K ON CONT		.	.	.	.	.
N+K ON TREAT		.	.	.	.	.
NEW 200#K		.	.	.	.	.

EFFECT		TWO YEAR PERCENT RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		-33.3	-13.5	-5.7	-5.9	-14.3
OLD 400#N		.	.	.	.	.
400#N-200#N		.	.	.	.	.
NEW 200#N		.	.	.	.	.
N+K ON CONT		.	.	.	.	.
N+K ON TREAT		.	.	.	.	.
NEW 200#K		.	.	.	.	.

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 235

FISH CREEK

REGION: MONTANA

OWNERSHIP: CHAMPION

LEGAL DESCRIPTION: T14N R24W SECTION 5 MERIDIAN: PRINCIPAL

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	80 YEARS
TREES PER ACRE	305 TREES/ACRE
BASAL AREA	122.2 SQ. FEET/ACRE
TOTAL VOLUME	2937 CU. FEET/ACRE
CCF	141.0
RELATIVE DENSITY INDEX	41.7
MEAN DIAMETER	8.6 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 122.2 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	5.0	5.0	159	181	0.35
200#N	NONE	4.1	5.6	179	178	0.19
400#N	NONE	-1.6	6.6	33	201	0.43
200#N	200#N	5.6	5.9	210	211	0.22
400#N	200#N	1.4	6.6	98	202	0.13
0#N	N+K	5.6	6.6	217	217	0.21
200#N	N+K	.	.	.	.	.
400#N	N+K	.	.	.	.	.

TWO YEAR ABSOLUTE RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	-0.9	0.6	20	-3	-0.16
OLD 400#N	-6.6	1.6	-126	20	0.13
400#N-200#N	-5.7	1.0	-146	23	0.29
NEW 200#N	2.2	0.2	48	17	-0.13
N+K ON CONT	1.6	1.6	58	36	-0.14
N+K ON TREAT	.	.	.	.	.
NEW 200#K	.	.	.	.	.

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	-18.0	12.0	12.6	-1.7	-45.7
OLD 400#N	-132.0	32.0	-79.2	11.0	37.1
400#N-200#N	-139.0	17.9	-81.6	12.9	152.6
NEW 200#N	180.0	2.5	45.3	9.0	-40.3
N+K ON CONT	32.0	32.0	36.5	19.9	-40.0
N+K ON TREAT	.	.	.	.	.
NEW 200#K	.	.	.	.	.

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 236

DEER CREEK

REGION: MONTANA

OWNERSHIP: CHAMPION

LEGAL DESCRIPTION: T13N R13W SECTION 20 MERIDIAN: PRINCIPAL

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	36 YEARS
TREES PER ACRE	293 TREES/ACRE
BASAL AREA	180.0 SQ. FEET/ACRE
TOTAL VOLUME	4838 CU. FEET/ACRE
CCF	199.6
RELATIVE DENSITY INDEX	55.2
MEAN DIAMETER	10.7 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 180.0 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	4.5	4.7	143	182	0.24
200#N	NONE	-4.5	4.0	160	154	0.22
400#N	NONE	-12.7	3.9	-154	135	0.53
200#N	200#N	.	.	.	.	.
400#N	200#N	.	.	.	.	.
0#N	N+K	3.6	4.6	195	209	0.38
200#N	N+K	-5.5	3.5	-62	157	0.51
400#N	N+K	7.4	5.4	247	235	0.13

EFFECT		TWO YEAR ABSOLUTE RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		-9.0	-0.7	17	-28	-0.02
OLD 400#N		-17.2	-0.8	-297	-47	0.34
400#N-200#N		-8.2	-0.1	-314	-19	0.36
NEW 200#N		.	.	.	.	.
N+K ON CONT		-0.9	-0.1	52	27	0.14
N+K ON TREAT		9.5	0.5	90	52	-0.08
NEW 200#K		.	.	.	.	.

EFFECT		TWO YEAR PERCENT RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		-200.0	-14.9	11.9	-15.4	-3.3
OLD 400#N		-382.2	-17.0	-207.7	-25.8	141.7
400#N-200#N		-182.2	-2.5	-196.3	-12.3	163.6
NEW 200#N		.	.	.	.	.
N+K ON CONT		-20.0	-2.1	36.4	14.8	58.3
N+K ON TREAT		111.0	12.7	2933.3	35.6	-20.0
NEW 200#K		.	.	.	.	.

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 237

MOLLET PARK

REGION: MONTANA

OWNERSHIP: CHAMPION

LEGAL DESCRIPTION: T15N R12W SECTION 9 MERIDIAN: PRINCIPAL

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	36 YEARS
TREES PER ACRE	228 TREES/ACRE
BASAL AREA	164.3 SQ. FEET/ACRE
TOTAL VOLUME	4643 CU. FEET/ACRE
CCF	173.4
RELATIVE DENSITY INDEX	48.3
MEAN DIAMETER	11.5 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 164.3 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	3.1	5.2	206	185	0.19
200#N	NONE	6.2	4.3	192	199	0.18
400#N	NONE					
200#N	200#N	6.8	5.1	192	193	0.14
400#N	200#N	2.4	3.3	168	162	0.14
0#N	N+K	5.8	5.8	217	212	0.21
200#N	N+K					
400#N	N+K	3.3	5.1	118	187	0.46

TWO YEAR ABSOLUTE RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	3.1	-0.4	-16	14	-0.01
OLD 400#N					
400#N-200#N					
NEW 200#N	0.6	0.3	0	-6	-0.04
N+K ON CONT	2.7	0.6	9	27	0.02
N+K ON TREAT					
NEW 200#K	0.9	1.3	-50	25	0.32

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	100.0	-7.7	-7.7	7.6	-5.3
OLD 400#N					
400#N-200#N					
NEW 200#N	9.7	6.3	0.0	-3.0	-22.2
N+K ON CONT	87.1	11.5	4.3	14.6	10.5
N+K ON TREAT					
NEW 200#K	37.5	34.2	-29.8	15.4	228.6

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 238

DULLALC BILL CREEK

REGION: MONTANA

OWNERSHIP: CHAMPION

LEGAL DESCRIPTION: T22N R26W SECTION 34 MERIDIAN: PRINCIPAL

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	38 YEARS
TREES PER ACRE	213 TREES/ACRE
BASAL AREA	69.6 SQ. FEET/ACRE
TOTAL VOLUME	1206 CU. FEET/ACRE
CCF	85.0
RELATIVE DENSITY INDEX	25.0
MEAN DIAMETER	7.7 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 69.6 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	7.0	7.2	193	194	6.35
200#N	NONE	8.3	7.1	192	180	5.38
400#N	NONE	7.7	6.9	168	158	5.42
200#N	200#N	9.3	9.1	210	205	5.48
400#N	200#N	9.0	9.0	214	214	5.46
0#N	N+K	7.8	7.7	216	215	5.42
200#N	N+K					
400#N	N+K					

TWO YEAR ABSOLUTE RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	1.3	-0.1	-1	-14	0.03
OLD 400#N	.	.	.	.	.
400#N-200#N	.	.	.	.	.
NEW 200#N	2.3	1.9	17	11	0.13
N+K ON CONT	-0.5	0.6	24	35	0.10
N+K ON TREAT	1.3	2.1	46	56	0.04
NEW 200#K					

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	18.6	-1.4	-0.5	-7.2	8.6
OLD 400#N	.	.	.	.	.
400#N-200#N	.	.	.	.	.
NEW 200#N	32.9	26.4	8.8	5.7	37.1
N+K ON CONT	-6.0	8.5	12.5	19.4	26.3
N+K ON TREAT	16.9	30.4	27.4	35.4	9.5
NEW 200#K					

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 239

WANA #2

REGION: NORTHEAST OREGON

OWNERSHIP: POTLATCH

LEGAL DESCRIPTION: T33N R4W SECTION 10 MERIDIAN: DOISE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	93 YEARS
TREES PER ACRE	143 TREES/ACRE
BASAL AREA	199.2 SQ. FEET/ACRE
TOTAL VOLUME	6810 CU. FEET/ACRE
CCF	174.5
RELATIVE DENSITY INDEX	49.8
MEAN DIAMETER	16.0 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 199.2 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	6.2	5.7	275	331	0.62
200#N	NONE	7.6	6.6	377	387	0.26
400#N	NONE	-9.5	4.2	-59	232	0.76
200#N	200#N	5.9	5.9	321	319	0.22
400#N	200#N	4.1	8.4	314	372	0.60
0#N	N+K	1.9	4.2	314	323	0.18
200#N	N+K					
400#N	N+K					

EFFECT	TWO YEAR ABSOLUTE RESPONSE/ACRE				
	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	1.4	0.9	102	51	-0.34
OLD 400#N	.	.	.	.	.
400#N-200#N	.	.	.	.	.
NEW 200#N	-0.3	0.2	46	-12	-0.40
N+K ON CONT	-5.7	-2.4	-63	-59	-0.10
N+K ON TREAT	13.6	2.2	373	140	-0.16
NEW 200#K					

EFFECT	TWO YEAR PERCENT RESPONSE/ACRE				
	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	22.6	15.8	37.1	15.4	-54.8
OLD 400#N	.	.	.	.	.
400#N-200#N	.	.	.	.	.
NEW 200#N	-4.8	3.5	16.7	-3.6	-64.5
N+K ON CONT	-75.0	-36.4	-16.7	-15.4	-35.7
N+K ON TREAT	143.2	52.4	632.2	60.3	-21.1
NEW 200#K					

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 240

QUARTZ CREEK #1

REGION: NORTHERN IDAHO

OWNERSHIP: POTLATCH

LEGAL DESCRIPTION: T37N R5E SECTION 8 MERIDIAN: BOISE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	47 YEARS
TREES PER ACRE	342 TREES/ACRE
BASAL AREA	193.6 SQ. FEET/ACRE
TOTAL VOLUME	5393 CU. FEET/ACRE
CCF	215.9
RELATIVE DENSITY INDEX	60.5
MEAN DIAMETER	10.2 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 193.6 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	12.9	12.5	555	559	0.36
200#N	NONE	20.1	14.9	331	533	0.45
400#N	NONE	1.8	12.8	608	543	0.23
200#N	200#N	.	.	.	.	.
400#N	200#N	.	.	.	.	.
0#N	N+K	15.7	15.8	623	608	0.35
200#N	N+K	14.7	14.6	676	672	0.40
400#N	N+K	16.7	15.7	615	622	0.50

TWO YEAR ABSOLUTE RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	7.2	2.4	-224	-26	0.09
OLD 400#N	-11.1	0.3	53	-16	-0.08
400#N-200#N	-18.3	-2.1	277	10	-0.17
NEW 200#N	.	.	.	.	.
N+K ON CONT	2.8	3.3	68	40	-0.01
N+K ON TREAT	4.8	1.3	176	109	0.02
NEW 200#K	.	.	.	.	.

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	55.8	19.2	-40.4	-4.7	25.0
OLD 400#N	-86.0	2.4	9.5	-2.9	-22.2
400#N-200#N	-91.0	-14.1	83.7	1.9	-37.3
NEW 200#N	.	.	.	.	.
N+K ON CONT	21.7	26.4	12.3	8.8	-2.8
N+K ON TREAT	43.4	9.4	37.5	20.3	23.3
NEW 200#K	.	.	.	.	.

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 241

WOODY MTH

REGION: CENTRAL WASHINGTON

OWNERSHIP: WASHINGTON DNR

LEGAL DESCRIPTION: T33N R24E SECTION 9

MERIDIAN: WILLAMETTE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	78 YEARS
TREES PER ACRE	295 TREES/ACRE
BASAL AREA	142.9 SQ. FEET/ACRE
TOTAL VOLUME	3570 CU. FEET/ACRE
CCF	166.4
RELATIVE DENSITY INDEX	46.5
MEAN DIAMETER	9.4 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 142.9 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	8.5	6.4	221	231	0.22
200#N	NONE	1.2	5.6	174	207	0.34
400#N	NONE	-2.5	7.6	129	244	0.23
200#N	200#N	-4.3	7.6	-37	248	0.18
400#N	200#N	2.0	10.1	204	333	0.27
0#N	N+K	3.4	8.6	303	312	0.27
200#N	N+K	.	.	.	.	.
400#N	N+K	.	.	.	.	.

TWO YEAR ABSOLUTE RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	-7.3	-0.3	-47	-24	0.12
OLD 400#N	-11.0	1.2	-92	13	0.01
400#N-200#N	-3.7	2.0	-45	37	-0.11
NEW 200#N	-0.5	2.2	-68	65	-0.06
N+K ON CONT	-0.1	2.2	82	81	0.05
N+K ON TREAT	.	.	.	.	.
NEW 200#K	.	.	.	.	.

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	-85.3	-12.5	-21.3	-10.4	54.5
OLD 400#N	-129.4	13.7	-41.6	5.6	4.5
400#N-200#N	-308.3	35.7	-25.9	17.9	-32.4
NEW 200#N	-76.9	34.1	-44.9	28.3	-21.1
N+K ON CONT	-1.2	34.4	37.1	35.1	22.7
N+K ON TREAT	.	.	.	.	.
NEW 200#K	.	.	.	.	.

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 242

N.F. NINEMILE CREEK

REGION: CENTRAL WASHINGTON

OWNERSHIP: WASHINGTON DNR

LEGAL DESCRIPTION: T39N R24E SECTION 13 MERIDIAN: WILLAMETTE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	93 YEARS
TREES PER ACRE	427 TREES/ACRE
BASAL AREA	156.8 SQ.FEET/ACRE
TOTAL VOLUME	4019 CU.FEET/ACRE
BCF	189.7
RELATIVE DENSITY INDEX	54.6
TEAK DIAMETER	8.3 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 156.8 SQ.FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	2.0	4.0	152	178	0.22
200#N	NONE	-4.4	5.6	240	171	0.17
400#N	NONE	8.3	5.9	207	211	0.13
200#N	200#N	2.2	5.9	117	207	0.13
400#N	200#N	5.8	6.7	145	213	0.22
0#N	N+K	6.2	6.3	216	226	0.15
200#N	N+K	.	.	.	.	.
400#N	N+K	.	.	.	.	.

TWO YEAR ABSOLUTE RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	-6.4	1.0	86	-7	-0.05
OLD 400#N	6.3	1.3	55	33	-0.04
400#N-200#N	12.7	0.3	-33	40	0.01
NEW 200#N	2.0	0.6	-93	19	0.02
N+K ON CONT	4.2	1.7	64	48	-0.07
N+K ON TREAT	.	.	.	.	.
NEW 200#K	.	.	.	.	.

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	-320.0	21.7	57.9	-3.9	-22.7
OLD 400#N	315.0	28.3	36.2	18.5	-18.2
400#N-200#N	238.6	5.4	-13.8	23.4	5.9
NEW 200#N	105.1	9.6	-41.4	9.9	14.3
N+K ON CONT	210.0	37.0	42.1	27.0	-31.8
N+K ON TREAT	.	.	.	.	.
NEW 200#K	.	.	.	.	.

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 243

STARVATION LAKE

REGION: NORTHEAST WASHINGTON OWNERSHIP: WASHINGTON DNR

LEGAL DESCRIPTION: T35N R40E SECTION 13 MERIDIAN: WILLAMETTE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	79 YEARS
TREES PER ACRE	227 TREES/ACRE
BASAL AREA	148.3 SQ. FEET/ACRE
TOTAL VOLUME	4097 CU. FEET/ACRE
CCF	164.7
RELATIVE DENSITY INDEX	44.7
MEAN DIAMETER	11.0 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 148.3 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	4.1	4.4	217	214	0.17
200#N	NONE	4.5	4.6	101	197	0.25
400#N	NONE	.	.	.	.	.
200#N	200#N	.	.	.	.	.
400#N	200#N	4.4	4.9	224	220	0.15
0#N	N+K	4.8	5.1	228	243	0.14
200#N	N+K	5.2	5.2	242	233	0.21
400#N	N+K	-9.7	3.3	-173	178	0.40

EFFECT	TWO YEAR ABSOLUTE RESPONSE/ACRE				
	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	0.4	0.2	-116	-17	0.09
OLD 400#N	.	.	.	.	.
400#N-200#N	.	.	.	.	.
NEW 200#N	.	.	.	.	.
N+K ON CONT	0.7	0.7	11	29	-0.03
N+K ON TREAT	0.7	0.6	141	41	-0.05
NEW 200#K	-14.1	-1.6	-397	-42	0.25

EFFECT	TWO YEAR PERCENT RESPONSE/ACRE				
	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	9.8	4.5	-53.5	-7.0	52.9
OLD 400#N	.	.	.	.	.
400#N-200#N	.	.	.	.	.
NEW 200#N	.	.	.	.	.
N+K ON CONT	17.1	15.9	5.1	13.6	-17.6
N+K ON TREAT	15.6	13.0	139.6	20.8	-19.2
NEW 200#K	-320.5	-32.7	-177.2	-19.1	166.7

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 244

BIG LOCKOUT MTN #1

REGION: NORTHEAST OREGON

OWNERSHIP: BLM (OREGON)

LEGAL DESCRIPTION: T11S R45E SECTION 19 MERIDIAN: WILLAMETTE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	96 YEARS
TREES PER ACRE	207 TREES/ACRE
BASAL AREA	290.9 SQ. FEET/ACRE
TOTAL VOLUME	9402 CU. FEET/ACRE
CCF	260.3
RELATIVE DENSITY INDEX	72.0
MEAN DIAMETER	16.6 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 290.9 SQ. FEET/ACRE

		TWO YEAR GROWTH/ACRE				
TREATMENTS		NET	GROSS	NET	GROSS	MEAN
OLD	NEW	BA	BA	VOLUME	VOLUME	DIAMETER
0#N	NONE	5.2	4.4	298	310	0.12
200#N	NONE	-9.9	4.3	342	279	0.30
400#N	NONE	0.0	4.6	293	233	0.32
200#N	200#N	6.1	5.5	370	374	0.13
400#N	200#N	5.3	4.4	344	344	0.14
0#N	N+K	5.4	5.0	353	365	0.17
200#N	N+K	:	:	:	:	:
400#N	N+K	:	:	:	:	:

		TWO YEAR ABSOLUTE RESPONSE/ACRE				
EFFECT		NET	GROSS	NET	GROSS	MEAN
		BA	BA	VOLUME	VOLUME	DIAMETER
OLD 200#N		-15.1	-0.1	44	-31	0.18
OLD 400#N		-5.2	0.2	0	-27	0.20
400#N-200#N		9.9	0.3	-44	4	0.02
NEW 200#N		10.6	0.5	37	78	-0.15
N+K ON CONT		0.2	0.6	55	55	0.05
N+K ON TREAT		:	:	:	:	:
NEW 200#K		:	:	:	:	:

		TWO YEAR PERCENT RESPONSE/ACRE				
EFFECT		NET	GROSS	NET	GROSS	MEAN
		BA	BA	VOLUME	VOLUME	DIAMETER
OLD 200#N		-290.4	-2.3	14.8	-10.0	150.0
OLD 400#N		-100.0	4.5	0.0	-6.7	166.7
400#N-200#N		100.0	7.0	-12.9	1.4	6.7
NEW 200#N		215.2	11.2	11.6	27.8	-43.4
N+K ON CONT		3.8	13.6	13.5	17.7	41.7
N+K ON TREAT		:	:	:	:	:
NEW 200#K		:	:	:	:	:

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 245

BIG LOOKOUT MTN #2

REGION: NORTHEAST OREGON

OWNERSHIP: BLM (OREGON)

LEGAL DESCRIPTION: T12S R44E SECTION 12 MERIDIAN: WILLAMETTE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	58 YEARS
TREES PER ACRE	230 TREES/ACRE
BASAL AREA	206.7 SQ. FEET/ACRE
TOTAL VOLUME	4464 CU. FEET/ACRE
CCF	207.2
RELATIVE DENSITY INDEX	57.0
MEAN DIAMETER	13.2 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 206.7 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	0.4	4.0	19	181	0.75
200#N	NONE	-8.3	4.4	-69	154	0.41
400#N	NONE					
200#N	200#N	4.6	4.1	170	179	0.15
400#N	200#N	-14.2	3.5	-101	174	0.92
0#N	N+K	4.4	4.3	197	211	0.14
200#N	N+K					
400#N	N+K	-13.3	4.5	-108	120	0.81

TWO YEAR ABSOLUTE RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	-8.7	0.4	-88	-27	-0.34
OLD 400#N	.	.	.	.	.
400#N-200#N					
NEW 200#N	12.9	-0.3	239	25	-0.26
N+K ON CONT	4.0	0.3	178	30	-0.61
N+K ON TREAT					
NEW 200#K	0.9	1.0	-7	-54	-0.11

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	-2175	10.0	-463.2	-14.9	-45.3
OLD 400#N	.	.	.	.	.
400#N-200#N					
NEW 200#N	155.4	-0.3	346.4	16.2	-63.4
N+K ON CONT	1000.0	7.5	936.8	16.6	-31.3
N+K ON TREAT					
NEW 200#K	6.3	23.6	-6.9	-31.0	-12.0

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 246

KETTLE FALLS

REGION: NORTHEAST WASHINGTON OWNERSHIP: WASHINGTON DNR
LEGAL DESCRIPTION: T36N R37E SECTION 36 MERIDIAN: WILLAMETTE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	40 YEARS
TREES PER ACRE	315 TREES/ACRE
BASAL AREA	113.7 SQ. FEET/ACRE
TOTAL VOLUME	2837 CU. FEET/ACRE
CCF	143.7
RELATIVE DENSITY INDEX	41.0
MEAN DIAMETER	8.4 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 113.7 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	4.2	4.5	178	192	0.34
200#N	NONE	6.8	5.9	193	203	0.20
400#N	NONE	3.6	7.0	206	273	0.84
200#N	200#N	3.9	7.7	178	248	0.48
400#N	200#N	-1.6	6.6	63	246	0.50
0#N	N+K	4.1	8.7	187	263	0.27
200#N	N+K					
400#N	N+K					

EFFECT		TWO YEAR ABSOLUTE RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N						
OLD 400#N		2.6	1.4	20	11	-0.14
400#N-200#N						
NEW 200#N						
N+K ON CONT		-0.3	3.2	0	56	0.14
N+K ON TREAT		-2.7	2.8	-11	60	0.07
NEW 200#K		-5.2	-0.4	-143	-32	-0.34

EFFECT		TWO YEAR PERCENT RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N						
OLD 400#N		61.9	31.1	11.2	5.7	-41.2
400#N-200#N						
NEW 200#N						
N+K ON CONT		-7.1	71.1	0.0	29.2	41.2
N+K ON TREAT		-39.7	47.5	-5.6	29.6	35.0
NEW 200#K		-144.4	-5.7	-69.4	-11.5	-40.5

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 247

PARK RAPIDS

REGION: NORTHEAST WASHINGTON

OWNERSHIP: WASHINGTON DNR

LEGAL DESCRIPTION: T35N R40E SECTION 24 MERIDIAN: WILLAMETTE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	82 YEARS
TREES PER ACRE	198 TREES/ACRE
BASAL AREA	153.3 SQ. FEET/ACRE
TOTAL VOLUME	4510 CU. FEET/ACRE
CCF	160.6
RELATIVE DENSITY INDEX	44.4
MEAN DIAMETER	11.9 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 153.3 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	6.5	5.6	266	274	0.21
200#N	NONE	10.1	6.9	253	264	0.23
400#N	NONE	5.7	6.4	276	275	0.25
200#N	200#N	.	.	.	.	.
400#N	200#N	.	.	.	.	.
0#N	N+K	3.1	6.8	189	237	0.43
200#N	N+K	6.2	6.2	272	270	0.25
400#N	N+K	4.2	5.9	256	267	0.24

TWO YEAR ABSOLUTE RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	3.6	1.3	-13	-10	0.07
OLD 400#N	-0.8	0.8	10	1	0.04
400#N-200#N	-4.4	-0.5	23	11	-0.03
NEW 200#N	.	.	.	.	.
N+K ON CONT	-3.4	1.2	-77	13	0.22
N+K ON TREAT	-2.7	-0.6	-1	-1	-0.02
NEW 200#K	.	.	.	.	.

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	55.4	23.2	-4.9	-3.6	33.3
OLD 400#N	-12.3	14.3	3.8	0.4	19.0
400#N-200#N	-43.6	-7.2	9.1	4.2	-10.7
NEW 200#N	.	.	.	.	.
N+K ON CONT	-52.3	21.4	-23.9	4.7	104.8
N+K ON TREAT	-34.2	-9.0	-0.2	-0.4	-7.5
NEW 200#K	.	.	.	.	.

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 248

QUINCY FLAT

REGION: CENTRAL WASHINGTON

OWNERSHIP: BOISE CASCADE

LEGAL DESCRIPTION: T5N P14E SECTION 1 MERIDIAN: WILLAMETTE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	70 YEARS
TREES PER ACRE	190 TREES/ACRE
BASAL AREA	152.0 SQ. FEET/ACRE
TOTAL VOLUME	4093 CU. FEET/ACRE
CCP	161.5
RELATIVE DENSITY INDEX	43.7
MEAN DIAMETER	12.1 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 152.0 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	8.1	8.3	323	321	0.33
200#N	NONE	13.3	8.6	328	342	0.34
400#N	NONE	4.0	7.6	310	301	0.29
200#N	200#N	7.3	8.5	295	294	0.32
400#N	200#N	10.1	9.0	305	316	0.38
0#N	N+K	11.2	11.2	429	429	0.47
200#N	N+K	.	.	.	.	.
400#N	N+K	.	.	.	.	.

EFFECT		TWO YEAR ABSOLUTE RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		5.2	0.3	5	21	0.01
OLD 400#N		-4.1	-0.7	-13	-20	-0.04
400#N-200#N		-9.3	-1.0	-19	-41	-0.05
NEW 200#N		0.0	0.7	-19	-17	0.03
N+K ON CONT		3.1	2.9	106	108	0.14
N+K ON TREAT		.	.	.	.	.
NEW 200#K		.	.	.	.	.

EFFECT		TWO YEAR PERCENT RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		64.2	3.6	1.5	6.5	3.0
OLD 400#N		-50.6	-8.4	-4.0	-6.2	-12.1
400#N-200#N		-69.9	-11.6	-5.5	-12.0	-14.7
NEW 200#N		0.6	8.0	-6.0	-5.1	11.1
N+K ON CONT		38.3	34.9	32.8	33.6	42.4
N+K ON TREAT		.	.	.	.	.
NEW 200#K		.	.	.	.	.

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 249

KAISER BUTTE #2

REGION: CENTRAL WASHINGTON

OWNERSHIP: BOISE CASCADE

LEGAL DESCRIPTION: T6N R15E SECTION 20 MERIDIAN: WILLAMETTE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	83 YEARS
TREES PER ACRE	198 TREES/ACRE
BASAL AREA	205.9 SQ. FEET/ACRE
TOTAL VOLUME	6982 CU. FEET/ACRE
CCF	198.2
RELATIVE DENSITY INDEX	55.2
MEAN DIAMETER	14.0 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 205.9 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	5.5	6.8	312	353	0.42
200#N	NONE	8.7	5.5	273	300	0.16
400#N	NONE	4.2	7.4	357	359	0.48
200#N	200#N	.	.	.	.	.
400#N	200#N	.	.	.	.	.
0#N	N+K	9.7	9.7	403	410	0.36
200#N	N+K	6.0	9.2	360	435	0.62
400#N	N+K	8.2	6.4	312	303	0.24

TWO YEAR ABSOLUTE RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	3.2	-1.3	-39	-53	-0.26
OLD 400#N	-1.3	0.6	45	1	0.06
400#N-200#N	-4.5	1.9	84	59	0.32
NEW 200#N	.	.	.	.	.
N+K ON CONT	4.2	2.9	96	52	-0.06
N+K ON TREAT	0.7	1.3	24	40	0.11
NEW 200#K	.	.	.	.	.

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	58.2	-19.1	-12.5	-16.2	-61.9
OLD 400#N	-23.6	8.8	14.4	0.3	14.3
400#N-200#N	-51.7	34.5	30.8	19.7	200.0
NEW 200#N	.	.	.	.	.
N+K ON CONT	76.4	42.6	30.8	14.5	-14.3
N+K ON TREAT	10.1	20.9	7.6	12.0	34.4
NEW 200#K	.	.	.	.	.

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 250

QUARTZ CREEK #2

REGION: NORTHERN IDAHO

OWNERSHIP: POTLATCH

LEGAL DESCRIPTION: T37N R5E SECTION 5 MERIDIAN: 5013E

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	44 YEARS
TREES PER ACRE	328 TREES/ACRE
BASAL AREA	170.6 SQ. FEET/ACRE
TOTAL VOLUME	3863 CU. FEET/ACRE
CCF	200.2
RELATIVE DENSITY INDEX	54.4
MEAN DIAMETER	9.9 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 170.6 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	14.4	14.1	461	464	0.38
200#N	NONE					
400#N	NONE	17.4	20.1	623	613	0.63
200#N	200#N	23.9	23.4	634	635	0.64
400#N	200#N					
0#N	N+K	16.4	19.0	574	639	0.65
200#N	N+K	15.2	18.3	531	584	0.66
400#N	N+K	17.2	20.7	636	662	0.55

TWO YEAR ABSOLUTE RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N					
OLD 400#N	3.0	6.0	162	149	0.30
400#N-200#N	.	.	.	.	.
NEW 200#N					
N+K ON CONT	2.0	4.9	113	175	0.27
N+K ON TREAT	-0.2	0.6	13	49	-0.13
NEW 200#K	-8.7	-5.1	-103	-51	0.02

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N					
OLD 400#N	20.8	42.6	35.1	32.1	73.9
400#N-200#N	.	.	.	.	.
NEW 200#N					
N+K ON CONT	13.9	34.3	24.0	37.7	71.1
N+K ON TREAT	-1.1	3.0	2.1	8.0	-19.1
NEW 200#K	-36.4	-21.8	-16.2	-8.0	3.1

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 251

GAME CREEK

REGION: MONTANA

OWNERSHIP: CHAMPION

LEGAL DESCRIPTION: T13N R16W SECTION 30 MERIDIAN: PRINCIPAL

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	66 YEARS
TREES PER ACRE	392 TREES/ACRE
BASAL AREA	163.3 SQ. FEET/ACRE
TOTAL VOLUME	3768 CU. FEET/ACRE
CCF	192.7
RELATIVE DENSITY INDEX	55.2
MEAN DIAMETER	8.9 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 163.3 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	4.7	5.5	193	184	0.15
200#N	NONE	8.3	6.0	232	237	0.19
400#N	NONE	8.3	5.8	201	201	0.13
200#N	200#N	1.7	5.6	155	161	0.17
400#N	200#N	7.4	7.5	261	270	0.21
0#N	N+K	7.6	7.5	267	261	0.20
200#N	N+K	.	.	.	.	.
400#N	N+K	.	.	.	.	.

TWO YEAR ABSOLUTE RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	3.6	0.5	39	53	0.04
OLD 400#N	3.6	0.5	39	53	0.04
400#N-200#N	-6.6	-0.4	-77	-76	-0.02
NEW 200#N	2.7	2.0	68	86	0.06
N+K ON CONT	-0.7	1.7	66	60	0.07
N+K ON TREAT					
NEW 200#K					

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	76.6	9.1	20.2	23.8	26.7
OLD 400#N	76.6	9.1	20.2	23.8	26.7
400#N-200#N	-79.5	-6.7	-33.2	-32.1	-10.5
NEW 200#N	57.4	36.4	35.2	46.7	40.0
N+K ON CONT	-8.4	29.3	32.8	29.9	53.8
N+K ON TREAT					
NEW 200#K					

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 252

BLACK CANYON RANCH

REGION: MONTANA

OWNERSHIP: CHAMPION

LEGAL DESCRIPTION: T15N R13W SECTION 6 MERIDIAN: PRINCIPAL

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	95 YEARS
TREES PER ACRE	407 TREES/ACRE
BASAL AREA	160.6 SQ. FEET/ACRE
TOTAL VOLUME	3646 CU. FEET/ACRE
CCF	138.0
RELATIVE DENSITY INDEX	55.0
MEAN DIAMETER	8.5 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 160.6 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	2.0	4.3	84	155	0.15
200#N	NONE					
400#N	NONE	9.2	4.7	181	187	0.13
200#N	200#N	4.1	5.3	159	196	0.29
400#N	200#N	-6.8	5.3	2	247	0.27
0#N	N+K	7.4	7.4	268	264	0.20
200#N	N+K	-3.5	4.9	-94	167	-0.04
400#N	N+K	.	.	.	.	.

TWO YEAR ABSOLUTE RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N					
OLD 400#N	7.2	0.4	97	32	-0.02
400#N-200#N					
NEW 200#N	-16.0	0.6	-179	60	0.14
N+K ON CONT	5.4	3.1	184	109	0.05
N+K ON TREAT					
NEW 200#K	-7.6	-0.4	-253	-29	-0.33

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N					
OLD 400#N	360.0	9.3	115.5	20.6	-13.3
400#N-200#N					
NEW 200#N	-173.9	12.8	-98.9	32.1	107.7
N+K ON CONT	270.0	72.1	219.0	70.3	33.3
N+K ON TREAT					
NEW 200#K	-185.4	-7.5	-159.1	-14.8	-113.8

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 253

ELK CREEK RESERVOIR

REGION: NORTHERN IDAHO

OWNERSHIP: IDL

LEGAL DESCRIPTION: T40N R2E SECTION 36 MERIDIAN: BOISE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	59 YEARS
TREES PER ACRE	240 TREES/ACRE
BASAL AREA	236.4 SQ. FEET/ACRE
TOTAL VOLUME	8974 CU. FEET/ACRE
CCF	243.9
RELATIVE DENSITY INDEX	64.3
MEAN DIAMETER	13.6 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 236.4 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	8.8	7.8	547	560	0.26
200#N	NONE	10.0	3.8	524	537	0.24
400#N	NONE	.	.	.	.	.
200#N	200#N	9.7	13.1	497	709	0.35
400#N	200#N	10.4	10.6	723	717	0.29
0#N	N+K	9.9	9.9	617	617	0.23
200#N	N+K	13.6	15.2	866	872	0.37

EFFECT		TWO YEAR ABSOLUTE RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
CLD 200#N		1.2	1.0	-23	-23	-0.02
OLD 400#N		.	.	.	.	.
400#N-200#N		.	.	.	.	.
NEW 200#N		1.6	2.8	176	157	0.03
N+K ON CONT		-0.1	1.1	93	80	0.04
N+K ON TREAT		3.9	2.1	369	163	0.02

EFFECT		TWO YEAR PERCENT RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		13.6	12.8	-4.2	-4.1	-7.7
OLD 400#N		.	.	.	.	.
400#N-200#N		.	.	.	.	.
NEW 200#N		18.2	35.9	32.2	28.0	11.5
N+K ON CONT		-1.0	12.5	17.7	14.9	16.7
N+K ON TREAT		40.2	16.0	74.2	23.0	5.7

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 254

CRANPERRY CREEK

REGION: NORTHERN IDAHO

OWNERSHIP: IDL

LEGAL DESCRIPTION: T38N R2E SECTION 12 MERIDIAN: BOISE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	33 YEARS
TREES PER ACRE	453 TREES/ACRE
BASAL AREA	146.6 SQ.FEET/ACRE
TOTAL VOLUME	3087 CU.FEET/ACRE
CCF	193.0
RELATIVE DENSITY INDEX	52.6
MEAN DIAMETER	7.3 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 146.6 SQ.FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	14.6	14.0	453	462	0.31
200#N	NONE	12.4	15.0	513	502	0.44
400#N	NONE					
200#N	200#N	17.3	18.8	688	686	0.42
400#N	200#N	19.4	20.9	634	636	0.61
0#N	N+K	16.2	16.4	496	508	0.47
200#N	N+K					
400#N	N+K	20.7	20.4	644	642	0.56

TWO YEAR ABSOLUTE RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	-2.2	1.0	55	40	0.13
OLD 400#N	.	.	.	.	.
400#N-200#N	.	.	.	.	.
NEW 200#N	4.9	3.8	175	184	-0.02
N+K ON CONT	1.6	2.4	38	46	0.16
N+K ON TREAT	1.3	-0.5	10	6	-0.05
NEW 200#K					

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	-15.1	7.1	12.0	8.7	41.9
OLD 400#N	.	.	.	.	.
400#N-200#N	.	.	.	.	.
NEW 200#N	39.5	25.3	34.1	36.7	-4.5
N+K ON CONT	11.0	17.1	8.3	10.0	51.6
N+K ON TREAT	6.7	-2.4	1.6	0.9	-8.2
NEW 200#K					

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 255

BIRCH CREEK

REGION: NORTHERN IDAHO

OWNERSHIP: INLAND EMPIRE

LEGAL DESCRIPTION: T53N R5W SECTION 2 MERIDIAN: BOISE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	40 YEARS
TREES PER ACRE	605 TREES/ACRE
BASAL AREA	212.0 SQ. FEET/ACRE
TOTAL VOLUME	4936 CU. FEET/ACRE
CCF	259.7
RELATIVE DENSITY INDEX	74.8
MEAN DIAMETER	8.0 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 212.0 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	15.9	17.8	590	600	0.49
200#N	NONE	25.0	16.7	460	587	0.53
400#N	NONE	14.3	15.3	532	540	0.36
200#N	200#N	18.5	19.6	586	580	0.34
400#N	200#N	13.9	20.9	598	714	0.51
0#N	N+K	17.4	18.9	555	573	0.40
200#N	N+K	:	:	:	:	:
400#N	N+K	:	:	:	:	:

TWO YEAR ABSOLUTE RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	9.1	-1.1	-130	-13	0.04
OLD 400#N	-1.6	-2.5	-58	-60	-0.13
400#N-200#N	-10.7	-1.4	72	-47	-0.17
NEW 200#N	-3.5	4.2	96	84	-0.02
N+K ON CONT	1.5	1.1	-35	-27	-0.09
N+K ON TREAT	:	:	:	:	:
NEW 200#K	:	:	:	:	:

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	57.2	-6.2	-22.0	-2.2	8.2
OLD 400#N	-10.1	-14.0	-9.8	-10.0	-26.5
400#N-200#N	-42.8	-8.4	15.7	-8.0	-32.1
NEW 200#N	-17.0	20.6	19.4	14.8	-4.5
N+K ON CONT	9.4	6.2	-5.9	-4.5	-18.4
N+K ON TREAT	:	:	:	:	:
NEW 200#K	:	:	:	:	:

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 256

SLY MEADOWS

REGION: NORTHERN IDAHO

OWNERSHIP: INLAND EMPIRE

LEGAL DESCRIPTION: T46N R1E SECTION 31 MERIDIAN: BOISE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	42 YEARS
TREES PER ACRE	457 TREES/ACRE
BASAL AREA	201.1 SQ. FEET/ACRE
TOTAL VOLUME	5738 CU. FEET/ACRE
CCF	236.5
RELATIVE DENSITY INDEX	67.0
MEAN DIAMETER	9.0 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 201.1 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	5.8	11.4	478	529	0.48
200#N	NONE	23.9	11.1	676	527	0.50
400#N	NONE	17.5	15.3	721	725	0.38
200#N	200#N	13.8	15.9	652	675	0.36
400#N	200#N	9.1	12.2	553	620	0.63
0#J	N+K	15.4	13.1	817	831	0.48
200#N	N+K					
400#N	N+K					

TWO YEAR ABSOLUTE RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	18.1	-0.3	198	-2	0.02
OLD 400#N					
400#N-200#N					
NEW 200#N	8.0	4.5	174	146	-0.12
N+K ON CONT	-8.5	7.0	141	304	-0.02
N+K ON TREAT	-8.4	-3.1	-163	-105	0.25
NEW 200#K					

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	312.1	-2.6	41.4	-0.4	4.2
OLD 400#N					
400#N-200#N					
NEW 200#N	137.9	39.5	36.4	27.6	-25.0
N+K ON CONT	-35.6	63.1	20.9	57.7	-4.0
N+K ON TREAT	-48.0	-20.3	-22.6	-14.5	65.8
NEW 200#K					

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 257

LITTLE CATHERINE CR

REGION: NORTHEAST OREGON

OWNERSHIP: BOISE CASCADE

LEGAL DESCRIPTION: T4S R41E SECTION 28

MERIDIAN: WILLAMETTE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	93 YEARS
TREES PER ACRE	151 TREES/ACRE
BASAL AREA	191.1 SQ. FEET/ACRE
TOTAL VOLUME	5339 CU. FEET/ACRE
CCF	172.3
RELATIVE DENSITY INDEX	48.8
MEAN DIAMETER	15.5 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 191.1 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	6.6	4.4	139	207	0.53
200#N	NONE					
400#N	NONE	5.3	4.1	147	152	0.16
200#N	200#N	-3.1	6.3	93	206	1.40
400#N	200#N	2.8	5.1	182	174	0.19
0#N	N+K	3.1	3.3	178	165	0.13
200#N	N+K	5.7	5.6	208	207	0.28
400#N	N+K	.	.	.	.	.

TWO YEAR ABSOLUTE RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N					
OLD 400#N	-1.3	-0.3	8	-55	-0.47
400#N-200#N					
NEW 200#N	-2.5	1.0	35	22	0.03
N+K ON CONT	-3.5	-1.1	39	-42	-0.50
N+K ON TREAT					
NEW 200#K	8.8	-0.7	115	1	-1.12

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N					
OLD 400#N	-19.7	-6.8	5.8	-26.6	-74.6
400#N-200#N					
NEW 200#N	-47.2	24.4	23.8	14.5	18.7
N+K ON CONT	-53.0	-25.0	28.1	-20.3	-79.4
N+K ON TREAT					
NEW 200#K	283.9	-11.1	123.7	0.5	-80.0

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 258

RONDOWA

REGION: NORTHEAST OREGON

OWNERSHIP: BOISE CASCADE

LEGAL DESCRIPTION: T3N R40E SECTION 23 MERIDIAN: WILLAMETTE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	78 YEARS
TREES PER ACRE	173 TREES/ACRE
BASAL AREA	196.6 SQ. FEET/ACRE
TOTAL VOLUME	6821 CU. FEET/ACRE
CCF	184.6
RELATIVE DENSITY INDEX	51.6
MEAN DIAMETER	14.6 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 196.6 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	-22.9	4.4	-763	217	0.13
200#N	NONE	6.5	7.5	360	351	0.30
400#N	NONE	.	.	.	.	.
200#N	200#N	.	.	.	.	.
400#N	200#N	-0.4	6.9	91	308	0.94
0#N	N+K	5.5	5.4	274	279	0.18
200#N	N+K	-14.8	3.9	-417	219	0.11
400#N	N+K	-3.8	5.0	117	261	0.43

EFFECT		TWO YEAR ABSOLUTE RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		29.4	3.1	1123	134	0.17
OLD 400#N		.	.	.	.	.
400#N-200#N		.	.	.	.	.
NEW 200#N		.	.	.	.	.
N+K ON CONT		28.4	1.0	1037	62	0.05
N+K ON TREAT		-21.3	-3.6	-777	-132	-0.19
NEW 200#K		-3.4	-1.9	26	-47	-0.51

EFFECT		TWO YEAR PERCENT RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		128.4	70.5	147.2	61.8	130.8
OLD 400#N		.	.	.	.	.
400#N-200#N		.	.	.	.	.
NEW 200#N		.	.	.	.	.
N+K ON CONT		124.0	22.7	135.9	28.6	38.5
N+K ON TREAT		-327.7	-48.0	-215.8	-37.6	-63.3
NEW 200#K		-850.0	-27.5	28.6	-15.3	-54.3

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 259

RAILROAD CANYON

REGION: CENTRAL WASHINGTON

OWNERSHIP: LONGVIEW FIBER

LEGAL DESCRIPTION: T25N R18E SECTION 2 MERIDIAN: WILLAMETTE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	77 YEARS
TREES PER ACRE	343 TREES/ACRE
BASAL AREA	210.6 SQ. FEET/ACRE
TOTAL VOLUME	6056 CU. FEET/ACRE
CCF	236.3
RELATIVE DENSITY INDEX	64.4
MEAN DIAMETER	10.6 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 210.6 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	6.6	5.5	211	225	0.13
200#N	NONE	5.7	6.2	222	217	0.15
400#N	NCNE	.	.	.	.	.
200#N	200#N	.	.	.	.	.
400#N	200#N	-0.5	6.8	218	256	0.33
0#N	N+K	6.3	6.2	217	245	0.15
200#N	N+K	5.8	5.9	206	215	0.12
400#N	N+K	-1.4	3.6	62	80	0.10

TWO YEAR ABSOLUTE RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	-0.9	0.7	11	-8	0.02
OLD 400#N	.	.	.	.	.
400#N-200#N	.	.	.	.	.
NEW 200#N	.	.	.	.	.
N+K ON CONT	-0.3	0.7	6	20	0.02
N+K ON TREAT	0.1	-0.3	-16	-2	-0.03
NEW 200#K	-0.9	-3.2	-156	-176	-0.23

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	-13.6	12.7	5.2	-3.6	15.4
OLD 400#N	.	.	.	.	.
400#N-200#N	.	.	.	.	.
NEW 200#N	.	.	.	.	.
N+K ON CONT	-4.5	12.7	2.3	8.9	15.4
N+K ON TREAT	1.8	-4.3	-7.2	-0.9	-20.0
NEW 200#K	-180.0	-47.1	-71.6	-68.8	-69.7

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 260

TUMWATER MTN

REGION: CENTRAL WASHINGTON

OWNERSHIP: LONGVIEW PAPER

LEGAL DESCRIPTION: T24N R17E SECTION 3 MERIDIAN: WILLAMETTE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	80 YEARS
TREES PER ACRE	213 TREES/ACRE
BASAL AREA	227.4 SQ. FEET/ACRE
TOTAL VOLUME	8016 CU. FEET/ACRE
CCF	218.0
RELATIVE DENSITY INDEX	61.0
MEAN DIAMETER	13.9 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 227.4 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	-10.8	6.4	-194	308	0.15
200#N	NONE	8.3	8.1	421	423	0.23
400#N	NONE	15.1	6.4	312	362	0.21
200#N	200#N	.	.	.	.	.
400#N	200#N	.	.	.	.	.
0#N	N+K	1.3	7.6	296	459	0.60
200#N	N+K	-10.0	8.4	-246	489	0.21
400#N	N+K	5.1	6.6	354	360	0.17

EFFECT		TWO YEAR ABSOLUTE RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		19.1	1.7	615	115	0.08
OLD 400#N		25.9	0.0	506	54	0.06
400#N-200#N		6.8	-1.7	-109	-61	-0.02
NEW 200#N		.	.	.	.	.
N+K ON CONT		12.1	1.2	490	151	0.45
N+K ON TREAT		-14.1	0.3	-313	32	-0.03
NEW 200#K		.	.	.	.	.

EFFECT		TWO YEAR PERCENT RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		176.9	26.6	317.0	37.3	53.3
OLD 400#N		239.8	0.0	260.8	17.5	40.0
400#N-200#N		81.9	-21.0	-25.9	-14.4	-8.7
NEW 200#N		.	.	.	.	.
N+K ON CONT		112.0	18.7	252.6	49.0	300.0
N+K ON TREAT		-120.9	3.4	-85.3	8.2	-13.6
NEW 200#K		.	.	.	.	.

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 261

SECOND CREEK

REGION: CENTRAL WASHINGTON

OWNERSHIP: LONGVIEW PIPE

LEGAL DESCRIPTION: T26N R18E SECTION 22

MERIDIAN: WILLAMETTE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	81 YEARS
TREES PER ACRE	253 TREES/ACRE
BASAL AREA	164.0 SQ. FEET/ACRE
TOTAL VOLUME	5180 CU. FEET/ACRE
CCF	185.6
RELATIVE DENSITY INDEX	49.6
MEAN DIAMETER	10.8 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 164.0 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	1.1	5.7	293	242	0.22
200#N	NONE	12.9	2.1	243	306	0.35
400#N	NONE	2.7	9.6	108	363	0.29
200#N	200#N	.	.	.	.	.
400#N	200#N	.	.	.	.	.
0#N	N+K	-8.0	8.6	-171	323	0.30
200#N	N+K	9.2	9.1	382	381	0.32
400#N	N+K	11.6	9.5	422	409	0.30

TWO YEAR ABSOLUTE RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	11.8	2.4	-55	64	0.13
OLD 400#N	1.6	3.9	-190	121	0.07
400#N-200#N	-10.2	1.5	-135	57	-0.06
NEW 200#N	.	.	.	.	.
N+K ON CONT	-9.1	2.9	-469	36	0.08
N+K ON TREAT	2.6	0.4	230	61	-0.01
NEW 200#K	.	.	.	.	.

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	1072.7	42.1	-18.5	26.4	59.1
OLD 400#N	145.5	63.4	-63.8	50.0	31.8
400#N-200#N	-79.1	18.5	-55.6	18.6	-17.1
NEW 200#N	.	.	.	.	.
N+K ON CONT	-827.3	50.9	-157.4	35.5	36.4
N+K ON TREAT	33.3	5.1	131.1	18.1	-3.1
NEW 200#K	.	.	.	.	.

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 262

STEVENS PASS

REGION: CENTRAL WASHINGTON

OWNERSHIP: LONGVIEW PAPER

LEGAL DESCRIPTION: T26N R15E SECTION 3

MERIDIAN: WILLAMETTE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	81 YEARS
TREES PER ACRE	365 TREES/ACRE
BASAL AREA	244.2 SQ. FEET/ACRE
TOTAL VOLUME	8308 CU. FEET/ACRE
CCF	276.6
RELATIVE DENSITY INDEX	73.2
MEAN DIAMETER	11.1 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 244.2 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	0.8	8.2	-49	383	0.30
200#N	NONE	-59.0	3.1	-1538	425	-0.16
400#N	NONE					
200#N	200#N	14.4	11.3	444	491	0.35
400#N	200#N	9.6	11.3	520	518	0.26
0#N	N+K	-11.4	12.3	-272	528	0.54
200#N	N+K					
400#N	N+K	12.5	13.7	580	555	0.28

EFFECT		TWO YEAR ABSOLUTE RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		-59.8	-0.1	-1489	42	-0.46
OLD 400#N		.	.	.	.	.
400#N-200#N		.	.	.	.	.
NEW 200#N		73.4	3.2	1982	66	0.51
N+K ON CONT		-12.2	4.1	-223	145	0.24
N+K ON TREAT						
NEW 200#K		2.9	2.4	60	67	0.02

EFFECT		TWO YEAR PERCENT RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		-74.75	-1.2	-3033.8	11.0	-153.3
OLD 400#N		.	.	.	.	.
400#N-200#N		.	.	.	.	.
NEW 200#N		124.4	39.5	128.9	15.5	318.7
N+K ON CONT		-1525	50.0	-455.1	37.9	80.0
N+K ON TREAT						
NEW 200#K		30.2	21.2	11.5	12.9	7.7

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 263

N.F. TEANAWAY FIVES

REGION: CENTRAL WASHINGTON

OWNERSHIP: WASHINGTON DNR

LEGAL DESCRIPTION: T21N R16E SECTION 20 MERIDIAN: WILLAMETTE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	93 YEARS
TREES PER ACRE	205 TREES/ACRE
BASAL AREA	181.2 SQ. FEET/ACRE
TOTAL VOLUME	5481 CU. FEET/ACRE
CCF	186.1
RELATIVE DENSITY INDEX	50.7
MEAN DIAMETER	12.7 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 181.2 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	9.2	7.2	282	301	0.23
200#N	NONE	12.9	7.9	303	334	0.27
400#N	NONE	4.0	9.8	220	470	0.47
200#N	200#N	3.3	7.6	322	304	0.27
400#N	200#N	9.4	7.1	286	298	0.28
0#N	N+K	9.2	9.3	409	391	0.30
200#N	N+K	:	:	:	:	:
400#N	N+K	:	:	:	:	:

TWO YEAR ABSOLUTE RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	3.7	0.7	21	33	0.04
OLD 400#N	-5.2	2.6	-62	169	0.24
400#N-200#N	-8.9	1.9	-83	136	0.20
NEW 200#N	-2.1	-1.5	43	-101	-0.09
N+K ON CONT	0.0	2.1	127	90	0.07
N+K CN TREAT	:	:	:	:	:
NEW 200#K	:	:	:	:	:

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	40.2	9.7	7.4	11.0	17.4
OLD 400#N	-56.5	36.1	-22.0	56.1	104.3
400#N-200#N	-69.0	24.1	-27.4	40.7	74.1
NEW 200#N	-24.9	-16.9	16.3	-25.1	-25.7
N+K ON CONT	0.0	29.2	45.0	29.9	30.4
N+K CN TREAT	:	:	:	:	:
NEW 200#K	:	:	:	:	:

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 264

RENFRO PEAK

REGION: NORTHEAST IDAHO

OWNERSHIP: POTLATCH

LEGAL DESCRIPTION: T44N R1E SECTION 11 MERIDIAN: BOISE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	56 YEARS
TREES PER ACRE	425 TREES/ACRE
BASAL AREA	268.7 SQ. FEET/ACRE
TOTAL VOLUME	2217 CU. FEET/ACRE
CCF	295.8
RELATIVE DENSITY INDEX	81.4
MEAN DIAMETER	10.9 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON BASAL AREA OF 268.7 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	9.8	10.1	373	517	0.19
200#N	NONE	21.0	11.9	488	600	0.23
400#N	NONE	8.3	13.3	756	707	0.25
200#N	200#N	15.0	16.4	795	786	0.36
400#N	200#N	2.1	12.8	336	646	0.30
0#N	N+K	12.7	13.2	741	726	0.23
200#N	N+K	:	:	:	:	:
400#N	N+K	:	:	:	:	:

EFFECT		TWO YEAR ABSOLUTE RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		11.2	1.8	115	33	0.04
OLD 400#N		-1.5	3.3	383	190	0.06
400#N-200#N		-12.7	2.0	268	107	0.02
NEW 200#N		-6.1	1.7	-27	63	0.09
N+K ON CONT		2.9	3.1	368	209	0.04
N+K CN TREAT		:	:	:	:	:
NEW 200#K		:	:	:	:	:

EFFECT		TWO YEAR PERCENT RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		114.3	17.6	30.3	16.1	21.1
OLD 400#N		-15.3	37.6	102.7	36.9	31.6
400#N-200#N		-60.5	16.8	54.9	17.8	8.7
NEW 200#N		-41.6	13.2	-4.3	9.6	37.5
N+K ON CONT		29.6	30.7	98.7	40.4	21.1
N+K CN TREAT		:	:	:	:	:
NEW 200#K		:	:	:	:	:

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 265

MALLORY CREEK

REGION: NORTHERN IDAHO

OWNERSHIP: BOTTLACU

LEGAL DESCRIPTION: T41N R2E SECTION 18 MERIDIAN: BOISE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	38 YEARS
TREES PER ACRE	310 TREES/ACRE
BASAL AREA	174.5 SQ. FEET/ACRE
TOTAL VOLUME	4367 CU. FEET/ACRE
CCF	203.0
RELATIVE DENSITY INDEX	54.6
MEAN DIAMETER	10.2 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 174.5 SQ. FEET/ACRE

		TWO YEAR GROWTH/ACRE				
TREATMENTS		NET	GROSS	NET	GROSS	MEAN
OLD	NEW	BA	BA	VOLUME	VOLUME	DIAMETER
0#N	NONE	17.1	14.7	500	521	0.43
200#N	NONE	15.3	15.2	592	592	0.44
400#N	NONE	13.5	14.0	472	519	0.46
200#N	200#N	18.7	19.3	745	743	0.55
400#N	200#N	17.0	17.5	693	691	0.55
0#N	N+K	16.1	16.2	707	690	0.42
200#N	N+K	.	.	.	.	.
400#N	N+K	.	.	.	.	.

TWO YEAR ABSOLUTE RESPONSE/ACRE					
EFFECT	NET	GROSS	NET	GROSS	MEAN
	BA	BA	VOLUME	VOLUME	DIAMETER
OLD 200#N	-1.8	0.5	92	71	0.01
OLD 400#N	-3.6	-0.7	-23	-2	0.03
400#N-200#N	-1.8	-1.2	-120	-73	0.02
NEW 200#N	3.4	3.8	187	162	0.10
N+K ON CONT	-1.0	1.5	207	169	-0.01
N+K ON TREAT	.	.	.	.	.
NEW 200#K	.	.	.	.	.

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT	NET	GROSS	NET	GROSS	MEAN
	BA	BA	VOLUME	VOLUME	DIAMETER
OLD 200#N	-10.5	3.4	18.4	13.6	2.3
OLD 400#N	-21.1	-4.8	-5.6	-0.4	7.0
400#N-200#N	-11.8	-7.9	-20.3	-12.3	4.5
NEW 200#N	24.0	26.0	35.2	29.1	22.2
N+K ON CONT	-5.8	10.2	41.4	32.4	-2.3
N+K ON TREAT	.	.	.	.	.
NEW 200#K	.	.	.	.	.

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 266

DOUGLAS FALLS #1

REGION: NORTHEAST WASHINGTON OWNERSHIP: WASHINGTON DNP

LEGAL DESCRIPTION: T36N R33E SECTION 16 MERIDIAN: WILLAMETTE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	89 YEARS
TREES PER ACRE	243 TREES/ACRE
BASAL AREA	142.0 SQ. FEET/ACRE
TOTAL VOLUME	3742 CU. FEET/ACRE
CCF	160.7
RELATIVE DENSITY INDEX	44.1
MEAN DIAMETER	10.3 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 142.0 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	6.6	5.3	199	205	0.19
200#N	NONE	6.5	6.1	222	223	0.23
400#N	NONE	4.0	8.8	317	309	0.31
200#N	200#N	2.4	8.8	197	318	0.31
400#N	200#N	7.1	8.0	225	288	0.28
0#N	N+K	8.8	9.0	325	337	0.30
200#N	N+K	.	.	.	.	.
400#N	N+K	.	.	.	.	.

TWO YEAR ABSOLUTE RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	-0.1	0.3	23	18	0.04
OLD 400#N	-2.6	3.0	118	104	0.12
400#N-200#N	-2.5	2.7	95	86	0.08
NEW 200#N	-0.5	0.9	-24	37	0.03
N+K ON CONT	2.2	3.2	126	132	0.11
N+K ON TREAT	.	.	.	.	.
NEW 200#K	.	.	.	.	.

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	-1.5	5.2	11.6	8.8	21.1
OLD 400#N	-39.4	51.7	59.3	50.7	63.2
400#N-200#N	-38.5	44.3	42.8	38.6	34.8
NEW 200#N	-9.5	12.8	-3.7	13.9	9.3
N+K ON CONT	33.3	55.2	63.3	64.4	57.9
N+K ON TREAT	.	.	.	.	.
NEW 200#K	.	.	.	.	.

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 267

DOUGLAS FALLS #2

REGION: NORTHEAST WASHINGTON

OWNERSHIP: WASHINGTON DNR

LEGAL DESCRIPTION: T36N R39E SECTION 16

MERIDIAN: WILLAMETTE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	37 YEARS
TREES PER ACRE	205 TREES/ACRE
BASAL AREA	136.3 SQ. FEET/ACRE
TOTAL VOLUME	3763 CU. FEET/ACRE
CCF	149.7
RELATIVE DENSITY INDEX	41.0
MEAN DIAMETER	11.0 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 136.3 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	5.9	6.3	217	214	0.25
200#N	NONE	7.7	5.7	221	224	0.23
400#N	NONE	-2.7	7.0	249	228	0.26
200#N	200#N	.	.	.	.	.
400#N	200#N	.	.	.	.	.
0#N	N+K	6.6	6.7	243	257	0.24
200#N	N+K	10.0	10.0	344	346	0.40
400#N	N+K	9.5	9.5	365	365	0.38

TWO YEAR ABSOLUTE RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	1.8	-0.6	4	10	-0.02
OLD 400#N	-8.6	0.7	32	14	0.01
400#N-200#N	-10.4	1.3	28	4	0.03
NEW 200#N	.	.	.	.	.
N+K ON CONT	0.7	0.4	31	43	-0.01
N+K ON TREAT	7.3	3.4	120	130	0.14
NEW 200#K	.	.	.	.	.

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	30.5	-9.5	1.8	4.7	-8.0
OLD 400#N	-145.8	11.1	14.7	6.5	4.0
400#N-200#N	-135.1	22.8	12.7	1.8	13.0
NEW 200#N	.	.	.	.	.
N+K ON CONT	11.9	6.3	14.3	20.1	-4.0
N+K ON TREAT	290.0	53.5	50.9	57.3	59.2
NEW 200#K	.	.	.	.	.

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 268

SHEEP CREEK

REGION: NORTHEAST WASHINGTON OWNERSHIP: INLAND EMPIRE

LEGAL DESCRIPTION: T40N R39E SECTION 3 MERIDIAN: WILLAMETTE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	61 YEARS
TREES PER ACRE	335 TREES/ACRE
BASAL AREA	210.9 SQ. FEET/ACRE
TOTAL VOLUME	6341 CU. FEET/ACRE
CCF	228.3
RELATIVE DENSITY INDEX	64.2
MEAN DIAMETER	10.3 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 210.9 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	7.8	8.6	380	370	0.21
200#N	NONE	8.5	8.4	399	399	0.20
400#N	NONE	6.7	10.5	485	482	0.45
200#N	200#N	9.6	12.8	557	542	0.31
400#N	200#N	10.3	11.0	481	529	0.54
0#N	N+K	11.0	10.9	460	482	0.30
200#N	N+K	.	.	.	.	.
400#N	N+K	.	.	.	.	.

TWO YEAR ABSOLUTE RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	0.7	-0.2	19	29	-0.01
OLD 400#N	-1.1	1.9	105	112	0.24
400#N-200#N	-1.8	2.1	86	33	0.25
NEW 200#N	2.3	2.4	77	95	0.10
N+K ON CONT	3.2	2.3	80	112	0.09
N+K ON TREAT	.	.	.	.	.
NEW 200#K	.	.	.	.	.

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	9.0	-2.3	5.0	7.8	-4.8
OLD 400#N	-14.1	22.1	27.6	30.3	114.3
400#N-200#N	-21.2	25.0	21.6	20.8	125.0
NEW 200#N	30.9	25.9	17.4	21.6	30.3
N+K ON CONT	41.0	26.7	21.1	30.3	42.9
N+K ON TREAT	.	.	.	.	.
NEW 200#K	.	.	.	.	.

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 269

UPPER BURNT FORK CR

REGION: MONTANA

OWNERSHIP: CHAMPION

LEGAL DESCRIPTION: T15N R16W SECTION 27 MERIDIAN: PRINCIPAL

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	63 YEARS
TREES PER ACRE	313 TREES/ACRE
BASAL AREA	160.5 SQ. FEET/ACRE
TOTAL VOLUME	3342 CU. FEET/ACRE
CCF	183.8
RELATIVE DENSITY INDEX	51.5
MEAN DIAMETER	9.7 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 160.5 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	5.7	6.6	199	190	0.22
200#N	NONE	10.7	7.5	200	214	0.23
400#N	NONE	2.1	7.1	150	210	0.35
200#N	200#N	8.6	7.5	231	232	0.22
400#N	200#N	4.3	7.8	175	206	0.30
0#N	N+K	-0.1	6.2	41	191	0.15
200#N	N+K	:	:	:	:	:
400#N	N+K	:	:	:	:	:

EFFECT		TWO YEAR ABSOLUTE RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		5.0	0.9	1	24	0.01
OLD 400#N		-3.6	0.5	-49	20	0.13
400#N-200#N		-8.6	-0.4	-50	-4	0.12
NEW 200#N		0.0	0.3	28	7	-0.03
N+K ON CONT		-5.8	-0.4	-158	1	-0.07
N+K ON TREAT		:	:	:	:	:
NEW 200#K		:	:	:	:	:

EFFECT		TWO YEAR PERCENT RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		37.7	13.6	0.5	12.6	4.5
OLD 400#N		-63.2	7.6	-24.6	10.5	59.1
400#N-200#N		-80.4	-5.3	-25.0	-1.9	52.2
NEW 200#N		0.8	4.8	16.0	3.3	-10.3
N+K ON CONT		-101.8	-6.1	-79.4	0.5	-31.8
N+K ON TREAT		:	:	:	:	:
NEW 200#K		:	:	:	:	:

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 270

HOWARD CREEK

REGION: MONTANA

OWNERSHIP: CHAMPION

LEGAL DESCRIPTION: T12N R23W SECTION 19 MERIDIAN: PRINCIPAL

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	55 YEARS
TREES PER ACRE	243 TREES/ACRE
BASAL AREA	140.9 SQ. FEET/ACRE
TOTAL VOLUME	3022 CU. FEET/ACRE
CCF	153.2
RELATIVE DENSITY INDEX	43.3
MEAN DIAMETER	10.4 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 140.9 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	7.6	6.6	196	203	0.24
200#N	NONE	4.5	6.4	207	200	0.24
400#N	NONE	6.1	7.2	185	184	0.30
200#N	200#N	.	.	.	.	.
400#N	200#N	.	.	.	.	.
0#N	N+K	5.7	5.8	214	222	0.18
200#N	N+K	8.7	8.7	312	310	0.29
400#N	N+K	4.0	4.8	155	161	0.18

TWO YEAR ABSOLUTE RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	-3.1	-0.2	11	-3	0.00
OLD 400#N	-1.5	0.6	-11	-19	0.06
400#N-200#N	1.6	0.8	-22	-16	0.06
NEW 200#N	.	.	.	.	.
N+K ON CONT	-1.9	-0.2	18	19	-0.06
N+K ON TREAT	1.1	-0.1	38	44	-0.03
NEW 200#K	.	.	.	.	.

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	-40.8	-3.0	5.6	-1.5	0.0
OLD 400#N	-19.7	9.1	-5.6	-9.4	25.0
400#N-200#N	35.6	12.5	-10.6	-8.0	25.0
NEW 200#N	.	.	.	.	.
N+K ON CONT	-25.0	-12.1	9.2	9.4	-25.0
N+K ON TREAT	19.3	-0.7	19.1	22.7	-13.0
NEW 200#K	.	.	.	.	.

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 271

WHITNEY CREEK

REGION: MONTANA

OWNERSHIP: CHAMPION

LEGAL DESCRIPTION: T25N R27W SECTION 7 MERIDIAN: PRINCIPAL

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	63 YEARS
TREES PER ACRE	343 TREES/ACRE
BASAL AREA	152.7 SQ. FEET/ACRE
TOTAL VOLUME	3654 CU. FEET/ACRE
CCF	167.5
RELATIVE DENSITY INDEX	50.7
MEAN DIAMETER	9.1 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 152.7 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	6.8	7.1	257	254	0.19
200#N	NONE	6.0	7.3	269	279	0.38
400#N	NONE	.	.	.	.	.
200#N	200#N	.	.	.	.	.
400#N	200#N	6.7	9.7	224	336	0.42
0#N	N+K	-1.2	6.1	25	209	0.28
200#N	N+K	9.2	9.3	297	297	0.26
400#N	N+K	9.1	9.8	337	341	0.31

EFFECT	TWO YEAR ABSOLUTE RESPONSE/ACRE				
	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	-0.8	0.2	12	25	0.19
OLD 400#N	.	.	.	.	.
400#N-200#N	.	.	.	.	.
NEW 200#N	.	.	.	.	.
N+K ON CONT	-8.0	-1.0	-232	-45	0.09
N+K ON TREAT	3.2	2.0	28	18	-0.12
NEW 200#K	2.4	0.1	113	5	-0.11

EFFECT	TWO YEAR PERCENT RESPONSE/ACRE				
	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	-11.8	2.8	4.7	9.8	100.0
OLD 400#N	.	.	.	.	.
400#N-200#N	.	.	.	.	.
NEW 200#N	.	.	.	.	.
N+K ON CONT	-117.6	-14.1	-90.3	-17.7	47.4
N+K ON TREAT	53.3	27.4	10.4	6.5	-31.6
NEW 200#K	35.8	1.0	50.4	1.5	-26.2

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 272

INDIAN CREEK

REGION: MONTANA

OWNERSHIP: CHAMPION

LEGAL DESCRIPTION: T25N R27W SECTION 5 MERIDIAN: PRINCIPAL

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	63 YEARS
TREES PER ACRE	507 TREES/ACRE
BASAL AREA	133.6 SQ. FEET/ACRE
TOTAL VOLUME	3175 CU. FEET/ACRE
CCF	163.2
RELATIVE DENSITY INDEX	50.6
MEAN DIAMETER	7.0 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 133.6 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	5.0	6.8	198	231	0.20
200#N	NONE	2.9	7.4	201	240	0.28
400#N	NONE	.	.	.	.	.
200#N	200#N	.	.	.	.	.
400#N	200#N	10.0	9.7	314	318	0.30
0#N	N+K	7.2	8.4	237	251	0.28
200#N	N+K	6.9	10.7	207	324	0.31
400#N	N+K	8.3	8.5	271	282	0.28

TWO YEAR ABSOLUTE RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	-2.1	0.6	3	9	0.08
OLD 400#N	.	.	.	.	.
400#N-200#N	.	.	.	.	.
NEW 200#N	2.2	1.6	39	20	0.08
N+K ON CONT	4.0	3.3	8	34	0.03
N+K ON TREAT	-1.7	-1.2	-43	-36	-0.02

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	-42.0	8.8	1.5	3.9	40.0
OLD 400#N	.	.	.	.	.
400#N-200#N	.	.	.	.	.
NEW 200#N	44.0	23.5	19.7	3.7	40.0
N+K ON CONT	137.9	44.6	3.0	35.0	10.7
N+K ON TREAT	-17.0	-12.4	-13.7	-11.3	-6.7

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT
 INSTALLATION 273 LITTLE BEAVER CREEK

REGION: NORTHERN IDAHO OWNERSHIP: POTLATCH
 LEGAL DESCRIPTION: T37N R5E SECTION 1 MERIDIAN: BOISE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	42 YEARS
TREES PER ACRE	393 TREES/ACRE
BASAL AREA	195.1 SQ. FEET/ACRE
TOTAL VOLUME	4850 CU. FEET/ACRE
CCF	237.1
RELATIVE DENSITY INDEX	63.1
MEAN DIAMETER	9.6 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
 BASAL AREA OF 195.1 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	11.6	15.7	472	574	0.45
200#N	NONE	26.2	20.5	673	717	0.50
400#N	NONE	13.2	18.3	636	608	0.35
200#N	200#N	.	.	.	.	.
400#N	200#N	.	.	.	.	.
0#N	N+K	19.9	19.9	728	728	0.45
200#N	N+K	16.7	16.7	585	579	0.41
400#N	N+K	21.2	20.3	636	691	0.54

TWO YEAR ABSOLUTE RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	14.6	4.3	201	143	0.05
OLD 400#N	1.6	2.6	164	34	-0.10
400#N-200#N	-13.0	-2.2	-37	-109	-0.15
NEW 200#N	.	.	.	.	.
N+K ON CONT	8.3	4.2	256	154	0.01
N+K ON TREAT	-0.8	-0.9	-14	-23	0.05
NEW 200#K	.	.	.	.	.

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	125.9	30.6	42.6	24.9	11.1
OLD 400#N	13.8	16.6	34.7	5.9	-22.2
400#N-200#N	-49.6	-10.7	-5.5	-15.2	-30.0
NEW 200#N	.	.	.	.	.
N+K ON CONT	71.6	26.8	54.2	26.8	2.2
N+K ON TREAT	-3.8	-4.6	-2.1	-4.2	11.3
NEW 200#K	.	.	.	.	.

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT
 INSTALLATION 274 CAKEYWOOD CREEK
 REGION: NORTHERN IDAHO OWNERSHIP: IDL
 LEGAL DESCRIPTION: T54N R2W SECTION 16 NEPIDIAN: D01SE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	66 YEARS
TREES PER ACRE	163 TREES/ACRE
BAJAL AREA	155.3 SQ. FEET/ACRE
TOTAL VOLUME	4747 CU. FEET/ACRE
CCF	155.1
RELATIVE DENSITY INDEX	42.6
MEAN DIAMETER	13.4 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
 BASAL AREA OF 155.3 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	3.2	6.8	218	287	0.49
200#N	NONE	4.7	7.6	363	352	0.38
400#N	NONE	5.2	7.9	395	431	0.53
200#N	200#N	.	.	.	.	.
400#N	200#N	.	.	.	.	.
0#N	N+K	-4.5	5.6	-37	274	0.27
200#N	N+K	8.3	3.3	344	344	0.32
400#N	N+K	8.8	8.3	374	371	0.37

TWO YEAR ABSOLUTE RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	1.5	0.8	150	65	-0.11
OLD 400#N	2.0	1.1	177	144	0.04
400#N-200#N	0.5	0.3	27	79	0.15
NEW 200#N	.	.	.	.	.
N+K ON CONT	-7.7	-1.2	-255	-13	-0.22
N+K ON TREAT	3.6	0.5	-23	-34	-0.11
NEW 200#K	.	.	.	.	.

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	46.9	11.8	63.8	22.6	-22.4
OLD 400#N	62.5	16.2	81.2	50.2	8.2
400#N-200#N	10.6	3.9	7.3	22.4	39.5
NEW 200#N	.	.	.	.	.
N+K ON CONT	-240.6	-17.6	-117.0	-4.5	-44.9
N+K ON TREAT	72.7	7.1	-5.9	-8.7	-24.2
NEW 200#K	.	.	.	.	.

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 275

SMITH LAKE

REGION: NORTHERN IDAHO

OWNERSHIP: IDL

LEGAL DESCRIPTION: T63N R1E SECTION 35 MERIDIAN: BOISE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	81 YEARS
TREES PER ACRE	322 TREES/ACRE
BASAL AREA	200.3 SQ. FEET/ACRE
TOTAL VOLUME	5663 CU. FEET/ACRE
CCF	219.9
RELATIVE DENSITY INDEX	61.2
MEAN DIAMETER	10.7 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 200.3 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	7.9	6.4	241	258	0.15
200#N	NONE					
400#N	NONE	12.4	10.9	415	422	0.31
200#N	200#N	5.0	7.6	331	319	0.20
400#N	200#N					
0#N	N+K	3.5	9.3	255	393	0.29
200#N	N+K	7.6	7.6	349	350	0.21
400#N	N+K	11.5	10.0	385	376	0.24

TWO YEAR ABSOLUTE RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N					
OLD 400#N	4.5	4.5	174	164	0.16
400#N-200#N	.	.	.	.	.
NEW 200#N					
N+K ON CONT	-4.4	2.9	14	140	0.14
N+K ON TREAT	-0.9	-0.9	-30	-46	-0.07
NEW 200#K	2.6	0.0	18	31	0.01

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N					
OLD 400#N	57.0	70.3	72.2	63.6	106.7
400#N-200#N	.	.	.	.	.
NEW 200#N					
N+K ON CONT	-55.7	45.3	5.8	54.3	93.3
N+K ON TREAT	-7.3	-3.3	-7.2	-10.9	-22.6
NEW 200#K	52.0	0.0	5.4	9.7	5.0

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT
 INSTALLATION 276 MILL CREEK

REGION: CENTRAL IDAHO OWNERSHIP: BOISE CASCADE
 LEGAL DESCRIPTION: T19N R1E SECTION 34 MERIDIAN: BOISE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	67 YEARS
TREES PER ACRE	230 TREES/ACRE
BASAL AREA	171.0 SQ. FEET/ACRE
TOTAL VOLUME	4451 CU. FEET/ACRE
CCF	180.4
RELATIVE DENSITY INDEX	50.0
MEAN DIAMETER	11.7 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
 BASAL AREA OF 171.0 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	8.1	7.8	325	327	0.25
200#N	NONE	-6.2	7.7	-62	300	0.26
400#N	NONE	-4.1	8.6	79	309	0.40
200#N	200#N	-2.4	8.1	14	362	0.16
400#N	200#N	10.7	10.7	422	423	0.36
0#N	N+K	10.8	10.8	448	443	0.39
200#N	N+K	.	.	.	.	.
400#N	N+K	.	.	.	.	.

TWO YEAR ABSOLUTE RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	-14.3	-0.1	-387	-27	0.01
OLD 400#N	-12.2	0.8	-246	-18	0.15
400#N-200#N	2.1	0.9	141	9	0.14
NEW 200#N	9.3	1.2	210	83	-0.07
N+K ON CONT	2.7	3.0	123	116	0.14
N+K ON TREAT	.	.	.	.	.
NEW 200#K	.	.	.	.	.

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	-176.5	-1.3	-119.1	-8.3	4.0
OLD 400#N	-150.6	10.3	-75.7	-5.5	60.0
400#N-200#N	33.9	11.7	227.4	3.0	53.8
NEW 200#N	180.6	15.3	2464.7	28.9	-21.2
N+K ON CONT	33.3	38.5	37.8	35.5	56.0
N+K ON TREAT	.	.	.	.	.
NEW 200#K	.	.	.	.	.

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 277

LITTLE MUD CREEK #2

REGION: CENTRAL IDAHO

OWNERSHIP: BOISE CASCADE

LEGAL DESCRIPTION: T20N R1E SECTION 34 MERIDIAN: BOISE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	69 YEARS
TREES PER ACRE	235 TREES/ACRE
BASAL AREA	171.8 SQ. FEET/ACRE
TOTAL VOLUME	4379 CU. FEET/ACRE
CCF	181.2
RELATIVE DENSITY INDEX	50.5
MEAN DIAMETER	11.6 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 171.8 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	8.0	11.3	470	430	0.35
200#N	NONE	-1.9	11.8	568	460	0.38
400#N	NONE	2.3	10.2	-93	328	0.37
200#N	200#N	.	.	.	.	.
400#N	200#N	.	.	.	.	.
0#N	N+K	-2.1	12.7	35	402	0.47
200#N	N+K	12.9	12.9	417	424	0.51
400#N	N+K	9.2	10.4	385	392	0.34

EFFECT		TWO YEAR ABSOLUTE RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		-9.0	0.5	98	30	0.33
OLD 400#N		-5.7	-1.1	-563	-102	0.02
400#N-200#N		3.3	-1.6	-661	-132	-0.01
NEW 200#N						
N+K ON CONT		-10.1	1.4	-435	-28	0.12
N+K ON TREAT		10.4	0.0	164	14	0.05
NEW 200#K		.	.	.	.	.

EFFECT		TWO YEAR PERCENT RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		-112.5	4.4	20.9	7.0	8.6
OLD 400#N		-71.3	-9.7	-119.8	-23.7	5.7
400#N-200#N		330.0	-13.6	-116.4	-28.7	-2.6
NEW 200#N						
N+K ON CONT		-126.2	12.4	-92.6	-6.5	34.3
N+K ON TREAT		1600.0	5.9	68.8	3.6	13.3
NEW 200#K		.	.	.	.	.

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 278

WET GULCH

REGION: CENTRAL IDAHO

OWNERSHIP: BOISE CASCADE

LEGAL DESCRIPTION: T7N R5E SECTION 19 MERIDIAN: BOISE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	98 YEARS
TREES PER ACRE	178 TREES/ACRE
BASAL AREA	125.1 SQ. FEET/ACRE
TOTAL VOLUME	3442 CU. FEET/ACRE
CCF	133.4
RELATIVE DENSITY INDEX	37.1
MEAN DIAMETER	11.3 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 125.1 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	5.7	5.4	215	216	0.24
200#N	NONE	7.3	6.3	218	217	0.27
400#N	NONE	5.5	7.0	216	220	0.31
200#N	200#N	6.6	6.7	245	251	0.23
400#N	200#N	0.6	4.5	83	170	0.42
0#N	N+K	5.4	6.8	247	257	0.32

EFFECT		TWO YEAR ABSOLUTE RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		1.6	0.9	3	1	0.03
OLD 400#N		.	.	.	.	.
400#N-200#N		.	.	.	.	.
NEW 200#N		0.9	1.3	30	35	0.05
N+K ON CONT		-1.9	0.5	29	40	0.05
N+K ON TREAT		-4.9	-2.5	-133	-50	0.11

EFFECT		TWO YEAR PERCENT RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		28.1	16.7	1.4	0.5	12.5
OLD 400#N		.	.	.	.	.
400#N-200#N		.	.	.	.	.
NEW 200#N		15.8	24.1	14.0	16.2	20.3
N+K ON CONT		-26.0	7.9	13.3	18.4	18.5
N+K ON TREAT		-89.1	-35.7	-61.6	-22.7	35.5

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT
 INSTALLATION 279 HENRY CREEK

REGION: CENTRAL IDAHO OWNERSHIP: BOISE CASCADE
 LEGAL DESCRIPTION: T7N R5E SECTION 28 MERIDIAN: BOISE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	85 YEARS
TREES PER ACRE	207 TREES/ACRE
BASAL AREA	167.7 SQ. FEET/ACRE
TOTAL VOLUME	4989 CU. FEET/ACRE
CCF	108.4
RELATIVE DENSITY INDEX	48.0
MEAN DIAMETER	12.3 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
 BASAL AREA OF 167.7 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	4.8	5.5	278	270	0.21
200#N	NONE	10.3	5.8	236	258	0.22
400#N	NONE	-2.3	5.0	261	229	0.16
200#N	200#N	-1.5	6.3	116	323	0.55
400#N	200#N	-2.3	3.8	5	351	0.69
0#N	N+K	5.0	3.4	264	355	0.55
200#N	N+K	.	.	.	.	.
400#N	N+K	.	.	.	.	.

TWO YEAR ABSOLUTE RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	5.5	0.3	-42	-12	0.01
OLD 400#N	-7.6	-0.5	-17	-41	-0.05
400#N-200#N	-13.1	-0.8	25	-29	-0.06
NEW 200#N	-5.6	2.4	-188	94	0.43
N+K ON CONT	0.2	2.9	-14	35	0.34
N+K CN TREAT	.	.	.	.	.
NEW 200#K	.	.	.	.	.

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	114.6	5.5	-15.1	-4.4	4.8
OLD 400#N	-158.3	-9.1	-6.1	-15.2	-23.8
400#N-200#N	-127.2	-13.3	10.6	-11.2	-27.3
NEW 200#N	-150.7	44.4	-75.7	38.4	226.5
N+K ON CONT	4.2	52.7	-5.0	31.5	161.9
N+K CN TREAT	.	.	.	.	.
NEW 200#K	.	.	.	.	.

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 230

SMITH CREEK

REGION: CENTRAL IDAHO

OWNERSHIP: TOL

LEGAL DESCRIPTION: T7N R5E SECTION 2 MERIDIAN: BOISE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	71 YEARS
TREES PER ACRE	227 TREES/ACRE
BASAL AREA	155.7 SQ. FEET/ACRE
TOTAL VOLUME	4106 CU. FEET/ACRE
CCF	161.8
RELATIVE DENSITY INDEX	46.4
MEAN DIAMETER	11.3 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 155.7 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	2.3	4.5	220	197	0.18
200#N	NONE	12.4	3.4	281	290	0.33
400#N	NONE	4.1	6.2	241	236	0.21
200#N	200#N	.	.	.	.	.
400#N	200#N	.	.	.	.	.
0#N	N+K	8.3	8.4	298	312	0.31
200#N	N+K	5.0	9.1	222	323	0.39
400#N	N+K	-3.6	8.5	-12	316	0.31

EFFECT		TWO YEAR ABSOLUTE RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		10.1	3.9	61	99	0.15
OLD 400#N		1.8	1.7	21	39	0.03
400#N-200#N		-8.3	-2.2	-40	-60	-0.12
NEW 200#N		.	.	.	.	.
N+K ON CONT		6.0	3.9	78	115	0.13
N+K ON TREAT		-7.5	1.5	-156	54	0.08
NEW 200#K		.	.	.	.	.

EFFECT		TWO YEAR PERCENT RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		439.1	86.7	27.7	50.3	83.3
OLD 400#N		78.3	37.8	9.5	19.8	16.7
400#N-200#N		-66.9	-26.2	-14.2	-20.3	-36.4
NEW 200#N		.	.	.	.	.
N+K ON CONT		260.9	86.7	35.5	58.4	72.2
N+K ON TREAT		-91.5	20.5	-59.3	20.1	29.6
NEW 200#K		.	.	.	.	.

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT
 INSTALLATION 281 C'NEIL HILL

REGION: NORTHERN IDAHO OWNERSHIP: POTLATCH
 LEGAL DESCRIPTION: T46N R1E SECTION 32 MERIDIAN: BOISE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	50 YEARS
TREES PER ACRE	442 TREES/ACRE
BASAL AREA	234.0 SQ. FEET/ACRE
TOTAL VOLUME	6579 CU. FEET/ACRE
CCF	265.0
RELATIVE DENSITY INDEX	74.3
MEAN DIAMETER	10.0 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
 BASAL AREA OF 234.0 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	9.7	10.4	529	518	0.22
200#N	NONE	0.5	10.2	408	515	0.39
400#N	NONE	10.9	11.6	592	586	0.25
200#N	200#N	.	.	.	.	.
400#N	200#N	.	.	.	.	.
0#N	N+K	7.1	12.4	500	593	0.54
200#N	N+K	10.1	12.4	505	554	0.49
400#N	N+K	11.2	12.9	539	623	0.46

TWO YEAR ABSOLUTE RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	-9.2	0.5	-121	-3	0.17
OLD 400#N	1.2	1.2	63	68	0.03
400#N-200#N	10.4	0.7	184	71	-0.14
NEW 200#N	.	.	.	.	.
N+K ON CONT	-2.6	2.0	-29	75	0.32
N+K ON TREAT	4.9	1.4	47	38	0.15
NEW 200#K	.	.	.	.	.

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	-94.8	4.8	-22.9	-0.6	77.3
OLD 400#N	12.4	11.5	11.9	13.1	13.6
400#N-200#N	2080.0	6.4	45.1	13.8	-35.9
NEW 200#N	.	.	.	.	.
N+K ON CONT	-26.8	19.2	-5.5	14.5	145.5
N+K ON TREAT	86.8	12.4	9.4	6.9	48.4
NEW 200#K	.	.	.	.	.

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT
 INSTALLATION 282 COOK MTN

REGION: CENTRAL WASHINGTON OWNERSHIP: WASHINGTON DNR
 LEGAL DESCRIPTION: T33N R24E SECTION 15 MERIDIAN: WILLAMETTE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	75 YEARS
TREES PER ACRE	310 TREES/ACRE
BASAL AREA	134.3 SQ. FEET/ACRE
TOTAL VOLUME	3292 CU. FEET/ACRE
CCF	159.6
RELATIVE DENSITY INDEX	44.3
MEAN DIAMETER	9.0 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
 BASAL AREA OF 134.3 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	6.1	6.0	192	194	0.20
200#N	NONE	9.7	7.9	264	267	0.27
400#N	NONE	6.7	7.1	259	259	0.26
200#N	200#N	.	.	.	.	.
400#N	200#N	.	.	.	.	.
0#N	N+K	8.8	8.3	294	292	0.29
200#N	N+K	6.6	6.6	239	240	0.21
400#N	N+K	5.5	6.4	185	192	0.21

TWO YEAR ABSOLUTE RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	3.6	1.9	72	73	0.07
OLD 400#N	0.6	1.1	67	65	0.06
400#N-200#N	-3.0	-0.8	-5	-8	-0.01
NEW 200#N	.	.	.	.	.
N+K ON CONT	2.7	2.8	102	98	0.09
N+K ON TREAT	-2.1	-1.0	-50	-47	-0.06
NEW 200#K	.	.	.	.	.

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	59.0	31.7	37.5	37.6	35.0
OLD 400#N	9.8	18.3	34.9	33.5	30.0
400#N-200#N	-30.9	-10.1	-1.9	-3.0	-3.7
NEW 200#N	.	.	.	.	.
N+K ON CONT	44.3	46.7	53.1	50.5	45.0
N+K ON TREAT	-26.2	-13.3	-18.9	-17.9	-20.3
NEW 200#K	.	.	.	.	.

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 283

SUMMIT CREEK

REGION: CENTRAL WASHINGTON

OWNERSHIP: WASHINGTON DNR

LEGAL DESCRIPTION: T33N R24E SECTION 4 MERIDIAN: WILLAMETTE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	81 YEARS
TREES PER ACRE	293 TREES/ACRE
BASAL AREA	133.3 SQ. FEET/ACRE
TOTAL VOLUME	3121 CU. FEET/ACRE
CCF	156.5
RELATIVE DENSITY INDEX	43.8
MEAN DIAMETER	9.3 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 133.3 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	5.9	5.8	175	176	0.20
200#N	NONE					
400#N	NCNE	8.6	9.8	269	269	0.33
200#N	200#N	8.9	9.1	276	276	0.32
400#N	200#N					
0#N	N+K	8.0	9.1	246	251	0.27
200#N	N+K	10.5	10.5	283	283	0.36
400#N	N+K	4.1	9.1	145	254	0.33

EFFECT		TWO YEAR ABSOLUTE RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N						
OLD 400#N		2.7	4.0	94	93	0.13
+00#N-200#N		..	.	.	.	.
NEW 200#N						
N+K ON CONT		2.1	2.3	71	75	0.07
N+K ON TREAT		-4.5	-0.7	-124	-15	0.00
NEW 200#K		1.5	1.4	7	7	0.04

EFFECT		TWO YEAR PERCENT RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N						
OLD 400#N		45.8	69.0	53.7	52.3	65.0
400#N-200#N		.	.	.	.	.
NEW 200#N						
N+K ON CONT		35.6	39.7	40.6	42.6	35.0
N+K ON TREAT		-52.3	-7.1	-46.1	-5.6	0.0
NEW 200#K		18.0	15.4	2.5	2.5	12.5

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 294

N.F. VALLEY CREEK

REGION: MONTANA

OWNERSHIP: FLATHEAD (BIA)

LEGAL DESCRIPTION: T17N R21W SECTION 22 MERIDIAN: PRINCIPAL

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	81 YEARS
TREES PER ACRE	155 TREES/ACRE
BASAL AREA	155.3 SQ. FEET/ACRE
TOTAL VOLUME	4408 CU. FEET/ACRE
CCF	153.4
RELATIVE DENSITY INDEX	41.8
MEAN DIAMETER	13.5 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 155.3 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	7.5	6.0	209	221	0.23
200#N	NONE	14.0	5.6	231	243	0.19
400#N	NONE					
200#K	200#N	4.3	5.2	245	244	0.24
400#N	200#N	-0.3	4.3	206	186	0.20
0#K	N+K	6.4	6.5	300	273	0.30
200#N	N+K					
400#N	N+K	8.4	6.5	267	253	0.21

TWO YEAR ABSOLUTE RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	6.5	-0.4	22	27	-0.04
OLD 400#N	.	.	.	.	.
400#N-200#N	.	.	.	.	.
NEW 200#N	-9.7	-0.4	14	-4	0.05
N+K ON CONT	-1.1	0.5	91	57	0.07
N+K ON TREAT					
NEW 200#K	8.7	2.2	61	67	0.01

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	86.7	-6.7	10.5	12.2	-17.4
OLD 400#N	.	.	.	.	.
400#N-200#N	.	.	.	.	.
NEW 200#N	-69.3	-7.1	6.1	-1.6	26.3
N+K ON CONT	-14.7	8.3	43.5	25.8	30.4
N+K ON TREAT					
NEW 200#K	2900.0	51.2	29.6	36.0	5.0

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 285

S.F. VALLEY CREEK

REGION: MONTANA

OWNERSHIP: FLATHEAD (BIA)

LEGAL DESCRIPTION: T16N R21W SECTION 2 MERIDIAN: PRINCIPAL

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	78 YEARS
TREES PER ACRE	153 TREES/ACRE
BASAL AREA	131.7 SQ. FEET/ACRE
TOTAL VOLUME	3408 CU. FEET/ACRE
CCF	137.7
RELATIVE DENSITY INDEX	37.1
MEAN DIAMETER	12.6 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 131.7 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	3.8	4.8	181	174	0.23
200#N	NONE	4.7	4.9	178	178	0.21
400#N	NONE	4.0	5.7	206	206	0.28
200#N	200#N	5.1	4.4	197	196	0.19
400#N	200#N	6.5	5.6	216	226	0.33
0#N	N+K	4.4	4.4	177	177	0.22
200#N	N+K	.	.	.	.	.
400#N	N+K	.	.	.	.	.

EFFECT		TWO YEAR ABSOLUTE RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		0.9	0.1	-3	4	-0.02
OLD 400#N		0.2	0.9	25	32	0.05
400#N-200#N		-0.7	0.8	28	28	0.07
NEW 200#N		1.4	-0.3	15	19	0.01
N+K ON CONT		0.6	-0.4	-4	3	-0.01
N+K ON TREAT		.	.	.	.	.
NEW 200#K		.	.	.	.	.

EFFECT		TWO YEAR PERCENT RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		23.7	2.1	-1.7	2.3	-8.7
OLD 400#N		5.3	13.8	13.8	19.4	21.7
400#N-200#N		-14.9	16.3	15.7	15.7	33.3
NEW 200#N		33.3	-5.7	7.6	9.9	6.1
N+K ON CONT		15.8	-8.3	-2.2	1.7	-4.3
N+K ON TREAT		.	.	.	.	.
NEW 200#K		.	.	.	.	.

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 287

JIM FORD CREEK

REGION: NORTHERN IDAHO

OWNERSHIP: POTLATCH

LEGAL DESCRIPTION: T35N R4E SECTION 8 MERIDIAN: BOISE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	63 YEARS
TREES PER ACRE	428 TREES/ACRE
BASAL AREA	205.0 SQ. FEET/ACRE
TOTAL VOLUME	5741 CU. FEET/ACRE
CCF	238.9
RELATIVE DENSITY INDEX	66.0
MEAN DIAMETER	9.4 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 205.0 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	8.6	8.0	334	342	0.17
200#N	NCNE	3.4	8.5	104	369	0.22
400#N	NONE	7.0	9.9	283	417	0.32
200#N	200#N	0.6	10.4	306	451	0.23
400#N	200#N	-3.6	8.6	-29	412	0.32
0#N	N+K	2.3	10.6	262	483	0.30
200#N	N+K	.	.	.	.	.
400#N	N+K	.	.	.	.	.

TWO YEAR ABSOLUTE RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	-5.2	0.5	-140	27	0.05
OLD 400#N	-1.6	1.9	-51	75	0.15
400#N-200#N	3.6	1.4	89	48	0.10
NEW 200#N	-6.7	0.3	-100	39	0.01
N+K ON CONT	-6.3	2.6	-72	141	0.13
N+K ON TREAT	.	.	.	.	.
NEW 200#K	.	.	.	.	.

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	-60.5	6.3	-41.9	7.9	29.4
OLD 400#N	-18.6	23.7	-15.3	21.9	88.2
400#N-200#N	105.9	16.5	45.9	13.0	45.5
NEW 200#N	-128.8	3.3	-41.7	9.8	1.9
N+K ON CONT	-73.3	32.5	-21.6	41.2	76.5
N+K ON TREAT	.	.	.	.	.
NEW 200#K	.	.	.	.	.

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT
INSTALLATION 286 BLACK ROCK CREEK
REGION: NORTHERN IDAHO OWNERSHIP: BLM (IDAHO)
LEGAL DESCRIPTION: T48N R1W SECTION 8 MERIDIAN: BOISE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	89 YEARS
TREES PER ACRE	240 TREES/ACRE
BASAL AREA	240.2 SQ. FEET/ACRE
TOTAL VOLUME	8006 CU. FEET/ACRE
CCF	240.1
RELATIVE DENSITY INDEX	65.2
MEAN DIAMETER	13.6 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 240.2 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	3.3	8.2	337	459	0.41
200#N	NONE	15.7	8.2	370	450	0.22
400#N	NONE					
200#N	200#N	10.0	8.1	430	440	0.24
400#N	200#N	8.3	10.1	462	459	0.27
0#N	N+K	9.0	8.3	459	407	0.20
200#N	N+K					
400#N	N+K	7.3	11.3	546	558	0.27

EFFECT		TWO YEAR ABSOLUTE RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		12.4	0.2	33	-9	-0.19
OLD 400#N		-	-	-	-	-
400#N-200#N		-	-	-	-	-
NEW 200#N		-5.7	-0.3	60	-10	0.02
N+K ON CONT		5.7	0.6	122	8	-0.15
N+K ON TREAT		-	-	-	-	-
NEW 200#K		-1.0	1.2	84	99	0.00

EFFECT		TWO YEAR PERCENT RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		375.8	2.4	9.8	-2.0	-46.3
OLD 400#N		-	-	-	-	-
400#N-200#N		-	-	-	-	-
NEW 200#N		-36.3	-3.6	16.2	-2.2	9.1
N+K ON CONT		172.7	7.3	36.2	1.7	-35.6
N+K ON TREAT		-	-	-	-	-
NEW 200#K		-12.0	11.9	18.2	21.6	0.0

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 288

MICA MTN

REGION: NORTHERN IDAHO

OWNERSHIP: INLAND EMPIRE

LEGAL DESCRIPTION: T49N R5W SECTION 33

RIFIDIAN: BOISE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	60 YEARS
TREES PER ACRE	302 TREES/ACRE
BASAL AREA	289.1 SQ. FEET/ACRE
TOTAL VOLUME	9753 CU. FEET/ACRE
CCF	276.3
RELATIVE DENSITY INDEX	79.2
MEAN DIAMETER	13.4 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 289.1 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	10.2	10.0	578	584	0.23
200#N	NONE	23.6	13.9	496	625	0.35
400#N	NONE	16.8	10.6	444	633	0.49
200#N	200#N	.	.	.	.	.
400#N	200#N	.	.	.	.	.
0#N	N+K	12.3	12.3	603	604	0.24
200#N	N+K	14.3	13.7	766	727	0.29
400#N	N+K	13.5	12.3	714	712	0.31

TWO YEAR ABSOLUTE RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	13.4	3.9	-82	41	0.13
OLD 400#N	6.6	0.6	-134	49	0.26
400#N-200#N	-6.8	-3.3	-52	3	0.13
NEW 200#N	2.1	2.3	23	20	0.01
N+K ON CONT	-6.3	0.7	270	91	-0.12
N+K ON TREAT	.	.	.	.	.
NEW 200#K	.	.	.	.	.

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	131.4	39.0	-14.2	7.0	56.5
OLD 400#N	64.7	6.0	-23.2	3.4	113.0
400#N-200#N	-28.8	-23.7	-10.5	1.3	36.1
NEW 200#N	20.6	23.0	4.3	3.4	4.3
N+K ON CONT	-31.2	6.1	57.4	14.4	-29.4
N+K ON TREAT	.	.	.	.	.
NEW 200#K	.	.	.	.	.

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 289

GROUSE MTN

REGION: NORTHEAST WASHINGTON OWNERSHIP: INLAND EMPIRE

LEGAL DESCRIPTION: T40N R40E SECTION 8 MERIDIAN: WILLAMETTE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	57 YEARS
TREES PER ACRE	403 TREES/ACRE
BASAL AREA	210.2 SQ. FEET/ACRE
TOTAL VOLUME	6012 CU. FEET/ACRE
CCF	241.8
RELATIVE DENSITY INDEX	67.2
MEAN DIAMETER	9.3 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 210.2 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	8.1	7.5	352	359	0.15
200#N	NONE					
400#N	NONE	11.3	9.1	374	387	0.22
200#N	200#N	4.8	9.1	395	444	0.25
400#N	200#N	-4.3	10.6	-58	459	0.46
0#N	N+K	11.4	12.0	496	521	0.45
200#N	N+K	13.8	10.7	490	424	0.20
400#N	N+K	.	.	.	.	.

EFFECT		TWO YEAR ABSOLUTE RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N						
OLD 400#N		3.2	1.6	22	23	0.07
400#N-200#N						
NEW 200#N		-15.6	1.5	-432	72	0.24
N+K CN CONT		3.3	4.5	144	162	0.30
N+K CN TREAT						
NEW 200#K		9.0	1.6	95	-20	-0.05

EFFECT		TWO YEAR PERCENT RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N						
OLD 400#N		39.5	21.3	6.3	7.8	46.7
400#N-200#N						
NEW 200#N		-138.1	16.5	-115.5	18.6	109.1
N+K CN CONT		40.7	60.0	40.9	45.1	200.0
N+K CN TREAT						
NEW 200#K		187.5	17.6	24.1	-4.5	-20.0

INSTALLATION SUMMARY: ADJUSTED GROWTH FOLLOWING RETREATMENT

INSTALLATION 290

GRASS MTN

REGION: NORTHEAST WASHINGTON

OWNERSHIP: INLAND EMPIRE

LEGAL DESCRIPTION: T39N 240E SECTION 1

MERIDIAN: WILLAMETTE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	81 YEARS
TREES PER ACRE	303 TREES/ACRE
BASAL AREA	201.2 SQ. FEET/ACRE
TOTAL VOLUME	5746 CU. FEET/ACRE
CCF	231.3
RELATIVE DENSITY INDEX	64.6
MEAN DIAMETER	9.7 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON
BASAL AREA OF 201.2 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
C#N	NONE	5.5	8.8	178	348	0.25
200#N	NONE	-22.0	3.1	585	311	0.31
400#N	NONE	10.8	7.8	209	279	0.29
200#N	200#N	9.1	8.4	330	333	0.19
400#N	200#N	7.3	8.5	336	362	0.27
0#N	N+K	:	:	:	:	:
200#N	N+K	:	:	:	:	:
400#N	N+K	:	:	:	:	:

EFFECT		TWO YEAR ABSOLUTE RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		-27.5	-0.7	407	-37	0.06
OLD 400#N		5.3	-1.0	31	-70	0.04
400#N-200#N		32.8	-0.3	-376	-33	-0.02
NEW 200#N		31.1	0.3	-255	22	-0.12
N+K ON CONT		1.8	-0.3	158	14	0.02
N+K ON TREAT		:	:	:	:	:
NEW 200#K		:	:	:	:	:

EFFECT		TWO YEAR PERCENT RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		-500.0	-8.0	228.7	-10.6	24.0
OLD 400#N		96.4	-11.4	17.4	-20.1	16.0
400#N-200#N		149.1	-3.7	-64.3	-10.6	-6.5
NEW 200#N		141.4	3.7	-43.6	7.1	-33.7
N+K ON CONT		32.7	-3.4	88.8	4.0	8.0
N+K ON TREAT		:	:	:	:	:
NEW 200#K		:	:	:	:	: