

**TECHNICAL DOCUMENTATION REPORT**

**Intermountain Forest Tree  
Nutrition Cooperative**

**April 1990**

**College of Forestry, Wildlife  
and Range Sciences  
University of Idaho  
Moscow, Idaho 83843**

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Table 1. Eight Year Net Basal Area Growth for One-half of the Douglas-fir Installations

DEPENDENT VARIABLE: NBA18		8 YEAR NET BASAL AREA GROWTH		
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	
MODEL	66	20481.27133823	310.32229300	
ERROR	73	4151.02818266	56.86339976	
CORRECTED TOTAL	139	24632.29952094		
MODEL F =	5.46		PR > F = 0.0001	
R-SQUARE	C.V.	RCCT MSE	NBA18 MEAN	
0.831480	28.1578	7.54078244	26.78047857	
SOURCE	DF	TYPE I SS	F VALUE	PR > F
REGION	5	7276.59192262	25.59	0.0001
INSTALLATION(REGION)	43	10992.08578598	4.45	0.0001
TREATMENT	2	551.86122694	4.85	0.0105
REGION X TREATMENT	10	766.64902327	1.35	0.2219
INITIAL BA	1	12.29525407	0.22	0.6433
BA X BA	1	564.85670682	9.93	0.0024
BA X TREATMENT	2	299.18097134	2.63	0.0788
BA X BA X TREATMENT	2	117.75044724	1.04	0.3602
SOURCE	DF	TYPE III SS	F VALUE	PR > F
REGION	5	2901.04072436	9.85	0.0001
INSTALLATION(REGION)	43	10278.86469661	4.20	0.0001
TREATMENT	2	152.13678516	1.69	0.1918
REGION X TREATMENT	10	659.50838209	1.16	0.3317
INITIAL BA	1	515.84253393	9.07	0.0036
BA X BA	1	545.76130002	9.60	0.0028
BA X TREATMENT	2	97.22669000	0.85	0.4295
BA X BA X TREATMENT	2	117.75044724	1.04	0.3602

Table 2. Eight Year Net Volume Growth for One-half of the Douglas-fir Installations

DEPENDENT VARIABLE: NVI8		8 YEAR NET VOLUME GROWTH		
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	
MODEL	66	26656490.63460170	403886.22173639	
ERROR	73	4341821.09857357	59477.00135032	
CORRECTED TOTAL	139	30998311.73317520		
MODEL F =	6.79		PR > F = 0.0001	
R-SQUARE	C.V.	ROOT MSE	NVI8 MEAN	
0.859934	23.5493	243.67907116	1035.61042857	
SOURCE	DF	TYPE I SS	F VALUE	PR > F
REGION	5	10811860.67682440	36.36	0.0001
INSTALLATION(REGION)	43	12419277.23790000	4.86	0.0001
TREATMENT	2	647549.55766258	5.44	0.0063
REGION X TREATMENT	10	1299502.86079593	2.19	0.0231
INITIAL BA	1	181806.08086103	3.06	0.0846
BA X BA	1	904278.02329835	15.20	0.0002
BA X TREATMENT	2	272638.60103783	2.29	0.1083
BA X BA X TREATMENT	2	119577.39617149	1.01	0.3710
SOURCE	DF	TYPE III SS	F VALUE	PR > F
REGION	5	4911004.15259437	16.51	0.0001
INSTALLATION(REGION)	43	12440958.11485780	4.86	0.0001
TREATMENT	2	138686.64175013	1.17	0.3174
REGION X TREATMENT	10	908775.27372713	1.53	0.1469
INITIAL BA	1	1148274.75509598	19.31	0.0001
BA X BA	1	968566.72828558	16.28	0.0001
BA X TREATMENT	2	72019.97749254	0.61	0.5485
BA X BA X TREATMENT	2	119577.39617149	1.01	0.3710

Table 3. Eight Year Gross Basal Area Growth for One-half of the Douglas-fir Installations

DEPENDENT VARIABLE: GBA18		8 YEAR GROSS BASAL AREA GROWTH		
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	
MODEL	66	12617.90800042	191.19042425	
ERROR	73	1009.37352098	13.82703453	
CORRECTED TOTAL	139	13627.28152140		
MODEL F =	13.83		PR > F = 0.0001	
R-SQUARE	C.V.	RCCT MSE	GBA18 MEAN	
0.925930	11.7937	3.71847207	31.52930000	
SOURCE	DF	TYPE I SS	F VALUE	PR > F
REGION	5	5115.98901688	74.00	0.0001
INSTALLATION(REGION)	43	5665.38902385	9.53	0.0001
TREATMENT	2	1110.95167934	40.17	0.0001
REGION X TREATMENT	10	359.00743347	2.60	0.0094
INITIAL BA	1	248.90475639	18.00	0.0001
BA X BA	1	83.12876254	6.01	0.0166
BA X TREATMENT	2	29.67719782	1.07	0.3473
BA X BA X TREATMENT	2	4.86013013	0.18	0.8392
SOURCE	DF	TYPE III SS	F VALUE	PR > F
REGION	5	3208.36887887	46.41	0.0001
INSTALLATION(REGION)	43	5332.68469167	8.97	0.0001
TREATMENT	2	14.77691528	0.53	0.5883
REGION X TREATMENT	10	294.68971505	2.13	0.0323
INITIAL BA	1	106.57698201	7.71	0.0070
BA X BA	1	45.88166244	3.32	0.0726
BA X TREATMENT	2	2.10574641	0.08	0.9268
BA X BA X TREATMENT	2	4.86013013	0.18	0.8392

Table 4. Eight Year Gross Volume Growth for One-half of the Douglas-fir Installations

DEPENDENT VARIABLE: GV18		8 YEAR GROSS VOLUME GROWTH		
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	
MODEL	66	22538911.97435090	341498.66627004	
ERROR	73	1423762.61609240	19503.59748072	
CORRECTED TOTAL	139	23962674.59044330		
MODEL F =	17.51		PR > F = 0.0001	
R-SQUARE	C.V.	RCOT MSE	GV18 MEAN	
0.940564	12.0239	139.65528089	1161.47864286	
SOURCE	DF	TYPE I SS	F VALUE	PR > F
REGION	5	9320604.09753374	95.58	0.0001
INSTALLATION(REGION)	43	5982205.71380847	11.90	0.0001
TREATMENT	2	1294815.33672903	33.19	0.0001
REGION X TREATMENT	10	524444.59793902	2.69	0.0073
INITIAL BA	1	1245754.81762816	63.87	0.0001
BA X BA	1	136926.13399466	7.02	0.0099
BA X TREATMENT	2	8655.82370415	0.22	0.8007
BA X BA X TREATMENT	2	25465.45301368	0.65	0.5236
SOURCE	DF	TYPE III SS	F VALUE	PR > F
REGION	5	5197037.36798012	53.29	0.0001
INSTALLATION(REGION)	43	7460135.25899998	8.90	0.0001
TREATMENT	2	5124.18145246	0.13	0.8771
REGION X TREATMENT	10	257923.15621775	1.32	0.2349
INITIAL BA	1	274731.34636111	14.09	0.0003
BA X BA	1	78845.76013163	4.04	0.0481
BA X TREATMENT	2	25952.38442728	0.67	0.5167
BA X BA X TREATMENT	2	25465.45301368	0.65	0.5236



Table 5. Eight Year Average Height Growth for One-half of the Douglas-fir Installations

DEPENDENT VARIABLE: HTINC8		8 YEAR AVERAGE HEIGHT GROWTH		
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	
MODEL	66	725.56679241	10.99343625	
ERROR	73	63.08354759	0.86415819	
CORRECTED TOTAL	139	788.65034000		
MODEL F =	12.72		PR > F = 0.0001	
R-SQUARE	C.V.	RCOT MSE	HTINC8 MEAN	
0.920011	12.4662	0.92960109	7.45700000	
SOURCE	DF	TYPE I SS	F VALUE	PR > F
REGION	5	313.99049872	72.67	0.0001
INSTALLATION(REGION)	43	383.45265795	10.32	0.0001
TREATMENT	2	18.16575879	10.51	0.0001
REGION X TREATMENT	10	6.17960955	0.72	0.7076
INITIAL BA	1	1.29743013	1.50	0.2244
BA X BA	1	0.11653512	0.13	0.7145
BA X TREATMENT	2	1.91105128	1.11	0.3364
BA X BA X TREATMENT	2	0.45325137	0.26	0.7700
SOURCE	DF	TYPE III SS	F VALUE	PR > F
REGION	5	243.22958458	56.29	0.0001
INSTALLATION(REGION)	43	322.15845814	8.67	0.0001
TREATMENT	2	1.75028243	1.01	0.3683
REGION X TREATMENT	10	4.19695240	0.49	0.8942
INITIAL BA	1	0.24201752	0.28	0.5983
BA X BA	1	0.62109253	0.72	0.3993
BA X TREATMENT	2	0.83526928	0.48	0.6187
BA X BA X TREATMENT	2	0.45325187	0.26	0.7700

Table 6. Change in Mean Diameter after Eight Years for One-half of the Douglas-fir Installations

DEPENDENT VARIABLE: DELTAD8 3 YEAR CHANGE IN MEAN DIAMETER (IN)			
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE
MODEL	66	22.32175377	0.33820937
ERROR	73	5.75372052	0.07881809
CORRECTED TOTAL	139	28.07547429	

MODEL F = 4.29 PR > F = 0.0001

R-SQUARE	C.V.	RCCT MSE	DELTAD8 MEAN
0.795062	19.7074	0.28074560	1.42457143

SOURCE	DF	TYPE I SS	F VALUE	PR > F
REGION	5	4.62489300	11.74	0.0001
INSTALLATION(REGION)	43	13.59399795	4.13	0.0001
TREATMENT	2	2.19548234	13.93	0.0001
REGION X TREATMENT	10	0.67975069	0.86	0.5716
INITIAL BA	1	0.74998670	9.52	0.0029
BA X BA	1	0.00355911	0.05	0.8323
BA X TREATMENT	2	0.02445469	0.16	0.8566
BA X BA X TREATMENT	2	0.04972428	0.32	0.7305

SOURCE	DF	TYPE III SS	F VALUE	PR > F
REGION	5	5.01121945	12.72	0.0001
INSTALLATION(REGION)	43	11.39442480	3.36	0.0001
TREATMENT	2	0.16423910	1.04	0.3580
REGION X TREATMENT	10	0.48974272	0.62	0.7909
INITIAL BA	1	0.04652776	0.59	0.4448
BA X BA	1	0.00064066	0.01	0.9284
BA X TREATMENT	2	0.06333692	0.40	0.6706
BA X BA X TREATMENT	2	0.04972428	0.32	0.7305

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

DEPENDENT VARIABLE: NBPAIL NET BASAL AREA PAI--PERIOD 1				
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	
MODEL	66	275.73059024	4.17773622	
ERROR	77	53.34923757	0.69284724	
CORRECTED TOTAL	143	329.07982781		
MODEL F =	6.03		PR > F = 0.0001	
R-SQUARE	C.V.	ROOT MSE	NBPAIL MEAN	
0.837684	18.8069	0.83237446	4.42590394	
SOURCE	DF	TYPE I SS	F VALUE	PR > F
REGION	5	62.41581133	18.02	0.0001
INSTALLATION(REGION)	43	142.76382267	4.79	0.0001
TREATMENT	2	41.81246633	30.17	0.0001
REGION X TREATMENT	10	9.39428906	1.36	0.2170
INITIAL BA	1	16.96842315	24.49	0.0001
BA X BA	1	1.24269532	1.79	0.1844
BA X TREATMENT	2	0.38266403	0.28	0.7594
BA X BA X TREATMENT	2	0.75041725	0.54	0.5840
SOURCE	DF	TYPE III SS	F VALUE	PR > F
REGION	5	39.04106322	11.27	0.0001
INSTALLATION(REGION)	43	142.85757447	4.80	0.0001
TREATMENT	2	0.08072109	0.06	0.9435
REGION X TREATMENT	10	5.66260504	0.82	0.6129
INITIAL BA	1	2.11570703	3.05	0.0845
BA X BA	1	0.30064726	0.43	0.5120
BA X TREATMENT	2	0.52211178	0.38	0.6873
BA X BA X TREATMENT	2	0.75041725	0.54	0.5840

Table 8. Gross Basal Area Increment in the First Two Years for One-half of the Douglas-fir Installations

DEPENDENT VARIABLE: GBPA11		GROSS BASAL AREA PAI--PERIOD 1		
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	
MODEL	66	302.14507743	4.57795572	
ERROR	77	32.94373509	0.42784077	
CORRECTED TOTAL	143	335.08881652		
MODEL F =	10.70		PR > F = 0.0001	
R-SQUARE	C.V.	ROOT MSE	GBPA11 MEAN	
0.901687	14.2821	0.65409538	4.57982523	
SOURCE	DF	TYPE I SS	F VALUE	PR > F
REGION	5	81.65732607	38.17	0.0001
INSTALLATION(REGION)	43	149.48002981	9.13	0.0001
TREATMENT	2	47.12139835	55.07	0.0001
REGION X TREATMENT	10	10.99907522	2.57	0.0097
INITIAL BA	1	9.94030698	23.23	0.0001
BA X BA	1	2.37038563	5.54	0.0211
BA X TREATMENT	2	0.28452291	0.33	0.7181
BA X BA X TREATMENT	2	0.29203245	0.34	0.7119
SOURCE	DF	TYPE III SS	F VALUE	PR > F
REGION	5	54.85389395	25.64	0.0001
INSTALLATION(REGION)	43	139.16369878	7.56	0.0001
TREATMENT	2	0.34050190	0.40	0.6731
REGION X TREATMENT	10	9.30817925	2.18	0.0231
INITIAL BA	1	3.16075733	7.39	0.0091
BA X BA	1	1.18080014	2.76	0.1007
BA X TREATMENT	2	0.17424368	0.20	0.8162
BA X BA X TREATMENT	2	0.29203245	0.34	0.7119

Table 9. Net Basal Area Increment in the Second Two Years for One-half of the Douglas-fir Installations

DEPENDENT VARIABLE: NBPAI2		NET BASAL AREA PAI--PERIOD 2		
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	
MODEL	66	890.02137531	13.48517235	
ERROR	77	229.46044130	2.93000573	
CORRECTED TOTAL	143	1119.48181661		
MODEL F =	4.53		PR > F = 0.0001	
R-SQUARE	C.V.	RCCT MSE	NBPAI2 MEAN	
0.795030	47.1405	1.72626931	3.66196875	
SOURCE	DF	TYPE I SS	F VALUE	PR > F
REGION	5	233.47705106	15.67	0.0001
INSTALLATION(REGION)	43	526.02385685	4.11	0.0001
TREATMENT	2	5.31637046	0.89	0.4140
REGION X TREATMENT	10	45.51787023	1.54	0.1412
INITIAL BA	1	4.88363519	1.64	0.2043
BA X BA	1	27.03249767	9.07	0.0035
BA X TREATMENT	2	35.90182402	6.02	0.0037
BA X BA X TREATMENT	2	11.46826584	1.92	0.1529
SOURCE	DF	TYPE III SS	F VALUE	PR > F
REGION	5	54.18900061	6.32	0.0001
INSTALLATION(REGION)	43	540.71251966	4.22	0.0001
TREATMENT	2	24.33405004	4.08	0.0206
REGION X TREATMENT	10	52.12329067	1.75	0.0548
INITIAL BA	1	25.00733074	8.39	0.0049
BA X BA	1	29.60638044	9.94	0.0023
BA X TREATMENT	2	14.98964307	2.52	0.0875
BA X BA X TREATMENT	2	11.46826584	1.92	0.1529

Table 10. Gross Basal Area Increment in the Second Two Years for One-half of the Douglas-fir Installations

DEPENDENT VARIABLE: GBPAI2		GROSS BASAL AREA PAI--PERIOD 2	
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE
MODEL	66	320.42735556	4.85495993
ERROR	77	25.42695242	0.33022016
CORRECTED TOTAL	143	345.85430798	

MODEL F = 14.70 PR > F = 0.0001

R-SQUARE	C.V.	RECT MSE	GBPAI2 MEAN
0.926431	13.2900	0.57464736	4.32392708

SOURCE	DF	TYPE I SS	F VALUE	PR > F
REGION	5	154.55716341	93.61	0.0001
INSTALLATION(REGION)	43	118.65034232	8.36	0.0001
TREATMENT	2	23.29555460	35.27	0.0001
REGION X TREATMENT	10	13.32931980	4.04	0.0002
INITIAL BA	1	6.65754735	20.16	0.0001
BA X BA	1	2.29606123	6.95	0.0101
BA X TREATMENT	2	1.61718669	2.45	0.0931
BA X BA X TREATMENT	2	0.02413015	0.04	0.9641

SOURCE	DF	TYPE III SS	F VALUE	PR > F
REGION	5	101.68650495	61.59	0.0001
INSTALLATION(REGION)	43	114.53662879	8.07	0.0001
TREATMENT	2	1.15144112	1.74	0.1818
REGION X TREATMENT	10	10.98684129	3.33	0.0012
INITIAL BA	1	2.93019338	8.87	0.0039
BA X BA	1	1.27953956	3.87	0.0526
BA X TREATMENT	2	0.06737076	0.10	0.9031
BA X BA X TREATMENT	2	0.02416015	0.04	0.9641

Table 11. Net Basal Area Increment in the Third Two Years for One-half of the Douglas-fir Installations

DEPENDENT VARIABLE: NBPAI3		NET BASAL AREA PAI--PERIOD 3		
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	
MODEL	66	729.21724663	11.04874616	
ERROR	77	211.44320758	2.74601672	
CORRECTED TOTAL	143	940.66053421		
MODEL F =	4.02		PR > F = 0.0001	
R-SQUARE	C.V.	RCCT MSE	NBPAI3 MEAN	
0.775218	57.2401	1.65711696	2.89501736	
SOURCE	DF	TYPE I SS	F VALUE	PR > F
REGION	5	164.25386325	11.96	0.0001
INSTALLATION(REGION)	43	446.17597766	3.78	0.0001
TREATMENT	2	2.65517175	0.48	0.6185
REGION X TREATMENT	10	63.96712971	2.33	0.0136
INITIAL BA	1	0.25445865	0.09	0.7616
BA X BA	1	29.43030179	10.72	0.0016
BA X TREATMENT	2	19.01354625	3.46	0.0363
BA X BA X TREATMENT	2	3.46679757	0.63	0.5347
SOURCE	DF	TYPE III SS	F VALUE	PR > F
REGION	5	49.46698634	3.60	0.0056
INSTALLATION(REGION)	43	473.86679287	4.01	0.0001
TREATMENT	2	4.59267417	0.84	0.4372
REGION X TREATMENT	10	38.59017151	1.41	0.1940
INITIAL BA	1	40.45736610	14.73	0.0003
BA X BA	1	43.75486798	15.93	0.0001
BA X TREATMENT	2	2.94172785	0.54	0.5875
BA X BA X TREATMENT	2	3.46679757	0.63	0.5347

Table 12. Gross Basal Area Increment in the Third Two Years for  
One-half of the Douglas-fir Installations

DEPENDENT VARIABLE: GBPA13 GROSS BASAL AREA PAI--PERIOD 3				
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	
MODEL	66	200.28866007	3.04376758	
ERROR	77	16.82112363	0.21858602	
CORRECTED TOTAL	143	217.71978371		
MODEL F =	13.92		PR > F = 0.0001	
R-SQUARE	C.V.	RCGT MSE	GBPA13 MEAN	
0.922694	12.9259	0.46753184	3.61701736	
SOURCE	DF	TYPE I SS	F VALUE	PR > F
REGION	5	79.08962262	72.36	0.0001
INSTALLATION(REGION)	43	103.62427117	11.02	0.0001
TREATMENT	2	6.38900291	14.61	0.0001
REGION X TREATMENT	10	5.46061477	2.50	0.0118
INITIAL BA	1	4.27126770	19.54	0.0001
BA X BA	1	1.42818676	6.53	0.0126
BA X TREATMENT	2	0.50615749	1.16	0.3196
BA X BA X TREATMENT	2	0.11953665	0.27	0.7615
SOURCE	DF	TYPE III SS	F VALUE	PR > F
REGION	5	54.83443538	50.17	0.0001
INSTALLATION(REGION)	43	99.49871371	10.59	0.0001
TREATMENT	2	0.13336765	0.31	0.7390
REGION X TREATMENT	10	4.75743640	2.18	0.0280
INITIAL BA	1	1.93443124	8.85	0.0037
BA X BA	1	0.89257017	4.08	0.0468
BA X TREATMENT	2	0.11791874	0.27	0.7643
BA X BA X TREATMENT	2	0.11953665	0.27	0.7615



Table 13. Net Basal Area Increment in the Fourth Two Years for One-half of the Douglas-fir Installations

DEPENDENT VARIABLE: NBPAI4		NET BASAL AREA PAI--PERIOD 4		
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	
MODEL	06	586.62187917	9.98221028	
ERROR	73	305.97893907	4.19149232	
CORRECTED TOTAL	139	892.60081723		
MODEL F =	2.12		PR > F = 0.0009	
R-SQUARE	C.V.	RCCT MSE	NBPAI4 MEAN	
0.657205	83.0971	2.04731344	2.46376071	
SOURCE	DF	TYPE I SS	F VALUE	PR > F
REGION	5	124.06402009	5.92	0.0001
INSTALLATION(REGION)	43	390.22988515	2.17	0.0018
TREATMENT	2	1.47602071	0.18	0.8389
REGION X TREATMENT	10	46.47632413	1.11	0.3674
INITIAL BA	1	4.20483067	1.00	0.3198
BA X BA	1	0.21333032	0.05	0.8221
BA X TREATMENT	2	9.63033975	1.03	0.3623
BA X BA X TREATMENT	2	11.32707136	1.35	0.2653
SOURCE	DF	TYPE III SS	F VALUE	PR > F
REGION	5	74.25696982	3.55	0.0063
INSTALLATION(REGION)	43	329.12470296	1.83	0.0116
TREATMENT	2	14.64727611	1.75	0.1315
REGION X TREATMENT	10	57.90996317	1.38	0.2059
INITIAL BA	1	0.95860152	0.23	0.6339
BA X BA	1	0.47224513	0.11	0.7381
BA X TREATMENT	2	14.61470895	1.74	0.1821
BA X BA X TREATMENT	2	11.32707136	1.35	0.2653

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

DEPENDENT VARIABLE: GBPA14 GROSS BASAL AREA PAI--PERIOD 4				
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	
MODEL	66	170.83465927	2.58640393	
ERROR	73	11.98256644	0.16414477	
CORRECTED TOTAL	139	182.81722771		
MODEL F =	15.77		PR > F = 0.0001	
R-SQUARE	C.V.	RCCT MSE	GBPA14 MEAN	
0.934456	12.4814	0.14784	3.24601786	
SOURCE	DF	TYPE I SS	F VALUE	PR > F
REGION	5	71.47135224	87.08	0.0001
INSTALLATION(REGION)	43	92.53882613	13.11	0.0001
TREATMENT	2	3.70536914	11.29	0.0001
REGION X TREATMENT	10	2.03330638	1.24	0.2816
INITIAL BA	1	0.81075277	4.94	0.0294
BA X BA	1	0.19166381	1.17	0.2834
BA X TREATMENT	2	0.05570421	0.17	0.9443
BA X BA X TREATMENT	2	0.02768409	0.08	0.9192
SOURCE	DF	TYPE III SS	F VALUE	PR > F
REGION	5	43.73377720	53.29	0.0001
INSTALLATION(REGION)	43	88.32955091	12.51	0.0001
TREATMENT	2	0.05416995	0.17	0.8482
REGION X TREATMENT	10	1.66919084	1.02	0.4379
INITIAL BA	1	0.23236418	1.42	0.2380
BA X BA	1	0.07732335	0.47	0.4947
BA X TREATMENT	2	0.01920210	0.06	0.9432
BA X BA X TREATMENT	2	0.02768409	0.08	0.9192

Table 15. Eight Year Net Basal Area Growth for 1980 Douglas-fir Installations

DEPENDENT VARIABLE: NBA18		8 YEAR NET BASAL AREA GROWTH (SQ.FT/A)		
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	
MODEL	11	735.84957678	66.89541607	
ERROR	20	653.68239269	32.68411963	
CORRECTED TOTAL	31	1389.53196947		
MODEL F =	2.05		PR > F = 0.0790	
R-SQUARE	C.V.	RCCT MSE	NBA18 MEAN	
0.529566	17.3842	5.71700263	32.88621875	
SOURCE	DF	TYPE I SS	F VALUE	PR > F
INSTALLATION	3	165.29136284	1.69	0.2019
TREATMENT	6	444.54684809	2.27	0.0785
INITIAL BA	1	116.89402809	3.58	0.0732
BA X BA	1	9.01733776	0.28	0.6052
SOURCE	DF	TYPE III SS	F VALUE	PR > F
INSTALLATION	3	71.98735006	0.73	0.5438
TREATMENT	6	364.15564622	1.86	0.1386
INITIAL BA	1	30.51348896	0.93	0.3455
BA X BA	1	9.01733776	0.28	0.6052

Table 16. Eight Year Net Volume Growth Response for 1980 Douglas-fir Installations

DEPENDENT VARIABLE: NV18		8 YEAR NET VOLUME GROWTH (CU.FT/A)		
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	
MODEL	11	2448393.09741545	222581.19067413	
ERROR	20	578509.51453142	28925.47572657	
CORRECTED TOTAL	31	3026902.61194637		
MODEL F =	7.69		PR > F = 0.0001	
R-SQUARE	C.V.	RCCT MSE	NV18 MEAN	
0.808677	14.7424	170.07491210	1153.64218750	
SOURCE	DF	TYPE I SS	F VALUE	PR > F
INSTALLATION	3	1678504.22580937	19.34	0.0001
TREATMENT	6	389952.41977187	2.25	0.0806
INITIAL BA	1	268436.86765241	9.28	0.0054
BA X BA	1	111459.58418179	3.85	0.0637
SOURCE	DF	TYPE III SS	F VALUE	PR > F
INSTALLATION	3	310566.12387581	3.58	0.0321
TREATMENT	6	296641.38528734	1.71	0.1706
INITIAL BA	1	201643.85049364	6.97	0.0157
BA X BA	1	111459.58418179	3.85	0.0637

Table 17. Eight Year Gross Basal Area Growth Response for 1980  
Douglas-fir Installations

DEPENDENT VARIABLE: GBA18		8 YEAR GROSS BASAL AREA GROWTH (SQ.FT/A)		
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	
MODEL	11	734.56908853	66.78082623	
ERROR	20	229.10155969	11.45507798	
CORRECTED TOTAL	31	963.69064822		
MODEL F =	5.83		PR > F = 0.0003	
R-SQUARE	C.V.	RCCT MSE	GBA18 MEAN	
0.762266	9.6141	3.38453512	35.20384375	
SOURCE	DF	TYPE I SS	F VALUE	PR > F
INSTALLATION	3	395.30305584	11.50	0.0001
TREATMENT	6	152.72916684	2.22	0.0835
INITIAL BA	1	93.18200866	8.13	0.0099
BA X BA	1	93.37485718	8.15	0.0098
SOURCE	DF	TYPE III SS	F VALUE	PR > F
INSTALLATION	3	248.08555963	7.22	0.0018
TREATMENT	6	172.67741767	2.51	0.0502
INITIAL BA	1	137.06425996	11.97	0.0025
BA X BA	1	93.37485718	8.15	0.0098

Table 18. Eight Year Gross Volume Growth Response for 1980 Douglas-fir Installations

DEPENDENT VARIABLE: GVI8		9 YEAR GROSS VOLUME GROWTH (CU.FT/A)		
SOURCE	DF	SLM CF SQUARES	MEAN SQUARE	
MODEL	11	2928516.59989000	266223.78171727	
ERROR	20	365310.67670999	18265.53333550	
CORRECTED TOTAL	31	3293827.27559999		
MODEL F = 14.58		PR > F = 0.0001		
R-SQUARE	C.V.	RCOT MSE	GVI8 MEAN	
0.869032	11.1518	135.15004194	1211.91500000	
SOURCE	DF	TYPE I SS	F VALUE	PR > F
INSTALLATION	3	2246683.27460000	41.00	0.0001
TREATMENT	6	156234.53968750	1.43	0.2539
INITIAL BA	1	243531.38446343	13.35	0.0016
BA X BA	1	281667.00013907	15.42	0.0006
SOURCE	DF	TYPE III SS	F VALUE	PR > F
INSTALLATION	3	658723.38949612	12.02	0.0001
TREATMENT	6	278338.31879775	2.54	0.0541
INITIAL BA	1	402271.13802474	22.02	0.0001
BA X BA	1	281667.00013907	15.42	0.0008

Table 19. Eight Year Average Height Growth Response for 1980  
Douglas-fir Installations

DEPENDENT VARIABLE: HTINCH 8 YEAR AVERAGE HEIGHT GROWTH (FT)				
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	
MODEL	11	121.01586313	11.00144210	
ERROR	20	23.91352437	1.19567622	
CORRECTED TOTAL	31	144.92938750		
MODEL F =	9.20		PR > F = 0.0001	
R-SQUARE	C.V.	RCCT MSE	HTINCH MEAN	
0.834999	13.6417	1.09346581	9.01562500	
SOURCE	DF	TYPE I SS	F VALUE	PR > F
INSTALLATION	3	108.96106250	30.38	0.0001
TREATMENT	6	5.39162500	0.75	0.6155
INITIAL BA	1	0.02491448	0.02	0.8867
BA X BA	1	6.63826116	5.55	0.0238
SOURCE	DF	TYPE III SS	F VALUE	PR > F
INSTALLATION	3	72.13784402	20.11	0.0001
TREATMENT	6	7.34759916	1.02	0.4383
INITIAL BA	1	6.44344677	5.39	0.0309
BA X BA	1	6.63826116	5.55	0.0288

Table 20. Eight Year Change in Mean Diameter for 1980 Douglas-fir Installations

DEPENDENT VARIABLE: DELTAD8 8 YEAR CHANGE IN MEAN DIAMETER (IN)			
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE
MODEL	11	1.22604568	0.11145870
ERROR	20	1.58027620	0.07901331
CORRECTED TOTAL	31	2.80632188	

MODEL F = 1.41 PR > F = 0.2425

R-SQUARE	C.V.	ROOT MSE	DELTAD8 MEAN
0.436887	16.6976	0.28109395	1.68343750

SOURCE	DF	TYPE I SS	F VALUE	PR > F
INSTALLATION	3	0.10118437	0.43	0.7359
TREATMENT	6	0.74179688	1.56	0.2090
INITIAL BA	1	0.00303122	0.04	0.8467
BA X BA	1	0.38003321	4.81	0.0403

SOURCE	DF	TYPE III SS	F VALUE	PR > F
INSTALLATION	3	0.02785435	0.12	0.9483
TREATMENT	6	0.84866301	1.79	0.1523
INITIAL BA	1	0.37396732	4.73	0.0418
BA X BA	1	0.38003321	4.81	0.0403



**SECTION II****Experimental Design Statistical Models  
for Two Year Douglas-fir Retreatment  
Response for One-half of the Installations**

- Table 21. Two Year Net Basal Area Growth for Douglas-fir Retreatment Installations**
- Table 22. Two Year Net Volume Growth for Douglas-fir Retreatment Installations**
- Table 23. Two Year Gross Basal Area Growth for Douglas-fir Retreatment Installations**
- Table 24. Two Year Gross Volume Growth for Douglas-fir Retreatment Installations**
- Table 25. Two Year Change in Mean Diameter for Douglas-fir Retreatment Installations**

Table 21. Two Year Net Basal Area Growth for Douglas-fir  
Retreatment Installations

DEPENDENT VARIABLE: NBAI		2 YEAR NET BASAL AREA GROWTH		
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	
MODEL	102	7436.52291926	72.90708744	
ERROR	163	4129.46675637	25.33416415	
CORRECTED TOTAL	265	11565.99167562		
MODEL F =	2.88		PR > F = 0.0001	
R-SQUARE	C.V.	RCCT MSE	NBAI MEAN	
0.642965	106.4405	5.03330549	4.72875188	
SOURCE	DF	TYPE I SS	F VALUE	PR > F
REGION	5	1882.57975542	14.86	0.0001
INSTALLATION(REGION)	39	4259.15543620	4.31	0.0001
TREATMENTS	7	61.03143940	0.34	0.9324
REGION X TREATMENTS	35	393.26504946	1.01	0.4662
BA	1	60.80295089	2.40	0.1233
BA X BA	1	15.27563236	0.60	0.4286
BA X TREATMENTS	7	63.18467836	0.36	0.9261
BA X BA X TREATMENTS	7	201.22797716	1.13	0.3439
SOURCE	DF	TYPE III SS	F VALUE	PR > F
REGION	5	1150.90583156	9.09	0.0001
INSTALLATION(REGION)	39	3882.13118588	3.93	0.0001
TREATMENTS	7	156.19934369	1.11	0.3615
REGION X TREATMENTS	35	1032.66868675	1.16	0.2602
BA	1	0.73646361	0.03	0.8648
BA X BA	1	5.57954002	0.22	0.6395
BA X TREATMENTS	7	209.24443519	1.18	0.3170
BA X BA X TREATMENTS	7	201.22797716	1.13	0.3439

Table 22. Two Year Net Volume Growth for Douglas-fir Retreatment Installations

DEPENDENT VARIABLE: NVI		2 YEAR NET VOLUME GROWTH		
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	
MODEL	102	8137927.26772359	79783.60066370	
ERROR	163	3706122.14934582	22736.94570151	
CORRECTED TOTAL	265	11844049.41706940		
MODEL F =	3.51		PR > F = 0.0001	
R-SQUARE	C.V.	ROOT MSE	NVI MEAN	
0.687090	67.9070	150.78775050	222.05033835	
SOURCE	DF	TYPE I SS	F VALUE	PR > F
REGION	5	2501181.65619726	22.00	0.0001
INSTALLATION(REGION)	39	4414552.27862230	4.98	0.0001
TREATMENTS	7	97848.45585296	0.61	0.7432
REGION X TREATMENTS	35	858092.61568351	1.08	0.3653
BA	1	537.22733758	0.02	0.8780
BA X BA	1	20868.76527602	0.92	0.3395
BA X TREATMENTS	7	65470.99475903	0.41	0.8943
BA X BA X TREATMENTS	7	179375.27399495	1.13	0.3486
SOURCE	DF	TYPE III SS	F VALUE	PR > F
REGION	5	1592652.71318345	14.01	0.0001
INSTALLATION(REGION)	39	4098270.08078328	4.62	0.0001
TREATMENTS	7	168328.16484174	1.06	0.3933
REGION X TREATMENTS	35	941246.05226730	1.18	0.2409
BA	1	11066.50767337	0.49	0.4864
BA X BA	1	9280.80154906	0.41	0.5238
BA X TREATMENTS	7	182255.81222180	1.15	0.3376
BA X BA X TREATMENTS	7	179375.27399495	1.13	0.3486

Table 23. Two Year Gross Basal Area Growth for Douglas-fir  
Retreatment Installations

DEPENDENT VARIABLE: GBAI		2 YEAR GROSS BASAL AREA GROWTH		
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	
MODEL	102	1777.00226384	17.42159082	
ERROR	163	151.43871771	0.92907189	
CORRECTED TOTAL	265	1928.44098155		
MODEL F =	18.75		PR > F = 0.0001	
R-SQUARE	C.V.	ROOT MSE	GBAI MEAN	
0.921471	13.9476	0.96383375	6.91076692	
SOURCE	DF	TYPE I SS	F VALUE	PR > F
REGION	5	755.27964535	171.20	0.0001
INSTALLATION(REGION)	39	804.59180086	22.21	0.0001
TREATMENTS	7	75.38435261	11.59	0.0001
REGION X TREATMENTS	35	55.31327919	1.70	0.0146
BA	1	32.96242162	35.48	0.0001
BA X BA	1	5.95314249	6.41	0.0123
BA X TREATMENTS	7	3.00519926	0.46	0.3678
BA X BA X TREATMENTS	7	4.51242246	0.69	0.6772
SOURCE	DF	TYPE III SS	F VALUE	PR > F
REGION	5	480.31273480	103.40	0.0001
INSTALLATION(REGION)	39	731.93588409	20.20	0.0001
TREATMENTS	7	7.36392506	1.13	0.3454
REGION X TREATMENTS	35	43.64249423	1.34	0.1141
BA	1	9.56298105	10.29	0.0016
BA X BA	1	3.53420831	3.80	0.0529
BA X TREATMENTS	7	4.77839972	0.73	0.6428
BA X BA X TREATMENTS	7	4.51242246	0.69	0.6772

Table 24. Two Year Gross Volume Growth for Douglas-fir Retreatment Installations

DEPENDENT VARIABLE: GVI		2 YEAR GROSS VOLUME GROWTH		
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	
MODEL	102	3725285.05738405	36522.40252342	
ERROR	163	202058.21439630	1239.62094722	
CORRECTED TOTAL	265	3927343.27178535		
MODEL F =	29.46		PR > F = 0.0001	
R-SQUARE	C.V.	RCCT MSE	GVI MEAN	
0.948551	12.6822	35.20825112	277.61860902	
SOURCE	DF	TYPE I SS	F VALUE	PR > F
REGION	5	1824543.45327763	294.37	0.0001
INSTALLATION(REGION)	39	1418559.12142441	29.34	0.0001
TREATMENTS	7	144870.19388343	16.70	0.0001
REGION X TREATMENTS	35	149884.02448684	3.45	0.0001
BA	1	166677.05634180	134.46	0.0001
BA X JA	1	10507.56486048	8.48	0.0041
BA X TREATMENTS	7	4031.62954557	0.46	0.8590
BA X BA X TREATMENTS	7	6212.01356889	0.72	0.6536
SOURCE	DF	TYPE III SS	F VALUE	PR > F
REGION	5	949301.68288737	153.16	0.0001
INSTALLATION(REGION)	39	1048319.64087169	21.68	0.0001
TREATMENTS	7	7704.12966078	0.89	0.5175
REGION X TREATMENTS	35	92754.04683166	2.14	0.0008
BA	1	25124.48860240	20.27	0.0001
BA X BA	1	5434.08660450	4.38	0.0378
BA X TREATMENTS	7	5312.50063806	0.61	0.7453
BA X BA X TREATMENTS	7	6212.01356889	0.72	0.6586

Table 25. Two Year Change in Mean Diameter for Douglas-fir  
Retreatment Installations

DEPENDENT VARIABLE: DELTAD 2 YEAR CHANGE IN MEAN DIAMETER				
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	
MODEL	102	3.61947196	0.03546502	
ERROR	163	2.86473293	0.01757505	
CORRECTED TOTAL	265	6.48420489		
MODEL F =	2.02		PR > F = 0.0001	
R-SQUARE	C.V.	RCCT MSE	DELTAD MEAN	
0.558198	40.5006	0.13257092	0.32733083	
SOURCE	DF	TYPE I SS	F VALUE	PR > F
REGION	5	0.45313368	5.16	0.0002
INSTALLATION(REGION)	39	1.94612121	2.84	0.0001
TREATMENTS	7	0.21271042	1.73	0.1055
REGION X TREATMENTS	35	0.74368775	1.22	0.2073
BA	1	0.00872689	0.50	0.4820
BA X BA	1	0.01781272	1.01	0.3156
BA X TREATMENTS	7	0.06395450	0.52	0.8187
BA X BA X TREATMENTS	7	0.16832478	1.37	0.2221
SOURCE	DF	TYPE III SS	F VALUE	PR > F
REGION	5	0.30267502	3.44	0.0055
INSTALLATION(REGION)	39	1.60594576	2.34	0.0001
TREATMENTS	7	0.16818924	1.37	0.2225
REGION X TREATMENTS	35	0.80252040	1.30	0.1375
BA	1	0.01720208	0.98	0.3240
BA X BA	1	0.01547578	0.98	0.3494
BA X TREATMENTS	7	0.17570166	1.43	0.1972
BA X BA X TREATMENTS	7	0.16832478	1.37	0.2221

**SECTION III****Experimental Design Statistical Models  
for Two and Four Year Ponderosa Pine Response**

- Table 26. Four Year Net Basal Area Growth for the 1985 Ponderosa Pine Installations
- Table 27. Four Year Net Volume Growth for the 1985 Ponderosa Pine Installations
- Table 28. Four Year Gross Basal Area Growth for the 1985 Ponderosa Pine Installations
- Table 29. Four Year Gross Volume Growth for the 1985 Ponderosa Pine Installations
- Table 30. Four Year Change in Average Height Growth for the 1985 Ponderosa Pine Installations
- Table 31. Four Year Change in Mean Diameter for the 1985 Ponderosa Pine Installations
- Table 32. Net Basal Area Increment in the First Two Years for the 1985 Ponderosa Pine Installations
- Table 33. Gross Basal Area Increment in the First Two Years for the 1985 Ponderosa Pine Installations
- Table 34. Net Basal Area Increment in the Second Two Years for the 1985 Ponderosa Pine Installations
- Table 35. Gross Basal Area Increment in the Second Two Years for the 1985 Ponderosa Pine Installations
- Table 36. Second Year Net Basal Area Growth for the 1987 Ponderosa Pine Installations
- Table 37. Second Year Net Volume Growth for the 1987 Ponderosa Pine Installations
- Table 38. Second Year Gross Basal Area Growth for the 1987 Ponderosa Pine Installations
- Table 39. Second Year Gross Volume Growth for the 1987 Ponderosa Pine Installations
- Table 40. Second Year Average Height Growth for the 1987 Ponderosa Pine Installations
- Table 41. Second Year Change in Mean Diameter for the 1987 Ponderosa Pine Installations

**Table 26. Four Year Net Basal Area Growth for the 1985 Ponderosa Pine Installations**

DEPENDENT VARIABLE: NBA14		4 YEAR NET BASAL AREA GROWTH		
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	
MODEL	26	5611.52607058	223.52023348	
ERROR	33	3730.85559099	113.05623003	
CORRECTED TOTAL	59	9542.38166157		
MODEL F =	1.98		PR > F = 0.0326	
R-SQUARE	C.V.	RCCT MSE	NBA14 MEAN	
0.609023	75.5600	10.63279032	14.07198434	
SOURCE	DF	TYPE I SS	F VALUE	PR > F
REGION	1	223.72155662	1.98	0.1689
INSTALLATION(REGION)	8	3695.18391527	4.09	0.0018
BLOCK(REGION*INSTALL)	10	1013.52732667	0.90	0.5467
TREATMENT	2	113.99996982	0.50	0.6036
REGION X TREATMENT	2	37.29802289	0.16	0.8437
INITIAL BA	1	550.13844322	4.87	0.0345
BA X TREATMENT	2	177.66683610	0.79	0.4641
SOURCE	DF	TYPE III SS	F VALUE	PR > F
REGION	1	47.12369761	0.42	0.5230
INSTALLATION(REGION)	8	3210.61591406	3.55	0.0045
BLOCK(REGION*INSTALL)	10	1317.75406181	1.17	0.3476
TREATMENT	2	251.87830295	1.11	0.3403
REGION X TREATMENT	2	212.92594711	0.94	0.4002
INITIAL BA	1	522.24031087	4.62	0.0390
BA X TREATMENT	2	177.66683610	0.79	0.4641



Table 27. Four Year Net Volume Growth for the 1985 Ponderosa Pine Installations

DEPENDENT VARIABLE: NV14		4 YEAR NET VOLUME GROWTH	
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE
MODEL	26	9175304.50460061	352896.32710002
ERROR	33	3628166.71833470	109944.44601014
CORRECTED TOTAL	59	12803471.22293530	

MODEL F = 3.21 PR > F = 0.0003

R-SQUARE	C.V.	RCGT MSE	NV14 MEAN
0.716626	52.7220	331.57871767	628.91946844

SOURCE	DF	TYPE I SS	F VALUE	PR > F
REGION	1	696467.59696624	6.33	0.0169
INSTALLATION(REGION)	8	6467353.51969465	7.35	0.0001
BLOCK(REGION*INSTALL)	10	698239.41987890	0.64	0.7732
TREATMENT	2	68157.48896361	0.31	0.7356
REGION X TREATMENT	2	141567.12653935	0.64	0.5318
INITIAL BA	1	1020016.06571439	9.28	0.0045
BA X TREATMENT	2	83503.28684349	0.38	0.6870

SOURCE	DF	TYPE III SS	F VALUE	PR > F
REGION	1	25824.75328788	0.23	0.6311
INSTALLATION(REGION)	8	2424487.66300824	2.76	0.0189
BLOCK(REGION*INSTALL)	10	1065211.90979697	0.97	0.4877
TREATMENT	2	110043.53854943	0.50	0.6108
REGION X TREATMENT	2	138504.00744602	0.63	0.5389
INITIAL BA	1	1002581.01227811	9.12	0.0049
BA X TREATMENT	2	83503.28684348	0.38	0.6870

Table 28. Four Year Gross Basal Area Growth for the 1985 Ponderosa Pine Installations

DEPENDENT VARIABLE: GBAI4 4 YEAR GROSS BASAL AREA GROWTH				
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	
MODEL	26	2141.42328038	82.36262617	
ERRGR	33	216.05421912	6.54709752	
CORRECTED TOTAL	59	2357.48249949		
MODEL F =	12.58		PR > F = 0.0001	
R-SQUARE	C.V.	RCCT MSE	GBAI4 MEAN	
0.908354	15.3193	2.55872967	16.70261489	
SOURCE	DF	TYPE I SS	F VALUE	PR > F
REGION	1	173.64611101	26.52	0.0001
INSTALLATION(REGION)	8	1656.58863447	32.39	0.0001
BLOCK(REGION*INSTALL)	10	86.46386563	1.32	0.2604
TREATMENT	2	79.62949988	6.08	0.0056
REGION X TREATMENT	2	14.15365934	1.08	0.3510
INITIAL BA	1	76.13883122	11.63	0.0017
BA X TREATMENT	2	14.80767883	1.13	0.3349
SOURCE	DF	TYPE III SS	F VALUE	PR > F
REGION	1	7.19753065	1.10	0.3020
INSTALLATION(REGION)	8	1236.36064175	23.61	0.0001
BLOCK(REGION*INSTALL)	10	116.39997469	1.78	0.1044
TREATMENT	2	0.10874120	0.01	0.9917
REGION X TREATMENT	2	0.23846335	0.02	0.9820
INITIAL BA	1	75.06369437	11.47	0.0018
BA X TREATMENT	2	14.80767883	1.13	0.3349

Table 29. Four Year Gross Volume Growth for the 1985 Ponderosa Pine Installations

DEPENDENT VARIABLE: GVI4		4 YEAR GROSS VOLUME GROWTH		
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	
MODEL	26	6023360.95041898	231667.72886227	
ERROR	33	288478.96030698	8741.78667597	
CORRECTED TOTAL	59	6311839.91072596		
MODEL F =	26.50		PR > F = 0.0001	
R-SQUARE	C.V.	RCCT MSE	GVI4 MEAN	
0.954296	13.2444	93.49752230	705.93812737	
SOURCE	DF	TYPE I SS	F VALUE	PR > F
REGION	1	398722.70202563	45.61	0.0001
INSTALLATION(REGION)	8	5104539.86633457	72.99	0.0001
BLOCK(REGION*INSTALL)	10	130843.84421467	1.50	0.1846
TREATMENT	2	44596.96210233	2.55	0.0933
REGION X TREATMENT	2	75028.46677288	4.29	0.0221
INITIAL BA	1	211941.78422517	24.24	0.0001
BA X TREATMENT	2	57687.32474372	3.30	0.0494
SOURCE	DF	TYPE III SS	F VALUE	PR > F
REGION	1	9202.67150765	1.05	0.3123
INSTALLATION(REGION)	8	889043.65858112	12.72	0.0001
BLOCK(REGION*INSTALL)	10	70578.02244735	0.91	0.6232
TREATMENT	2	19038.55665942	1.09	0.3484
REGION X TREATMENT	2	10186.55260337	0.58	0.5641
INITIAL BA	1	210978.62195873	24.13	0.0001
BA X TREATMENT	2	57687.32474372	3.30	0.0494

Table 30. Four Year Change in Average Height Growth for the 1985 Ponderosa Pine Installations

DEPENDENT VARIABLE: HTI4		4 YEAR AVERAGE HEIGHT GROWTH (FT)		
SOURCE	DF	SLM CF SQUARES	MEAN SQUARE	
MODEL	26	59.34207781	2.28238761	
ERROR	33	3.12364424	0.09465589	
CORRECTED TOTAL	59	62.46572204		
MODEL F =	24.11		PR > F = 0.0001	
R-SQUARE	C.V.	RCCT MSE	HTI4 MEAN	
0.949994	7.2424	0.30766197	4.24806878	
SOURCE	DF	TYPE I SS	F VALUE	PR > F
REGION	1	10.05210228	106.20	0.0001
INSTALLATION(REGION)	8	46.77637503	61.77	0.0001
BLCK(REGION*INSTALL)	10	1.63307302	1.73	0.1163
TREATMENT	2	0.01613054	0.09	0.9135
REGION X TREATMENT	2	0.43204465	2.28	0.1179
INITIAL BA	1	0.04307443	0.46	0.5046
BA X TREATMENT	2	0.38927785	2.06	0.1440
SOURCE	DF	TYPE III SS	F VALUE	PR > F
REGION	1	5.38192954	56.86	0.0001
INSTALLATION(REGION)	8	45.80462305	60.49	0.0001
BLCK(REGION*INSTALL)	10	1.63614910	1.73	0.1155
TREATMENT	2	0.33599855	1.77	0.1853
REGION X TREATMENT	2	0.33915433	1.79	0.1825
INITIAL BA	1	0.04316616	0.46	0.5042
BA X TREATMENT	2	0.38927785	2.06	0.1440

Table 31. Four Year Change in Mean Diameter for the 1985 Ponderosa Pine Installations

DEPENDENT VARIABLE: DELTAD4 4 YEAR CHANGE IN MEAN DIAMETER				
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	
MODEL	26	3.72033250	0.14308571	
ERROR	33	0.74330635	0.02252443	
CORRECTED TOTAL	59	4.46363886		
MODEL F =	6.35		PR > F = 0.0001	
R-SQUARE	C.V.	ROOT MSE	DELTAD4 MEAN	
0.833475	17.8466	0.15008143	0.84095476	
SOURCE	DF	TYPE I SS	F VALUE	PR > F
REGION	1	0.22248299	9.88	0.0035
INSTALLATION(REGION)	8	2.90884078	16.14	0.0001
BLOCK(REGION*INSTALL)	10	0.33678909	1.50	0.1852
TREATMENT	2	0.13226984	2.94	0.0671
REGION X TREATMENT	2	0.06351742	1.41	0.2585
INITIAL BA	1	0.05571435	2.47	0.1253
BA X TREATMENT	2	0.00071802	0.02	0.9842
SOURCE	DF	TYPE III SS	F VALUE	PR > F
REGION	1	0.24740448	10.98	0.0022
INSTALLATION(REGION)	8	2.67432262	15.95	0.0001
BLOCK(REGION*INSTALL)	10	0.39007772	1.73	0.1147
TREATMENT	2	0.01098964	0.24	0.7849
REGION X TREATMENT	2	0.07651410	1.70	0.1986
INITIAL BA	1	0.05521554	2.45	0.1270
BA X TREATMENT	2	0.00071802	0.02	0.9842

Table 32. Net Basal Area Increment in the First Two Years for the 1985 Ponderosa Pine Installations

DEPENDENT VARIABLE: NBPAIL NET BASAL AREA PAI--PERIOD 1				
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	
MODEL	26	102.02722959	3.92412422	
ERROR	33	19.10346055	0.57889274	
CORRECTED TOTAL	59	121.13069015		
MODEL F =	6.78		PR > F = 0.0001	
R-SQUARE	C.V.	RCCT MSE	NBPAIL MEAN	
0.842291	17.1731	0.76085001	4.43048852	
SOURCE	DF	TYPE I SS	F VALUE	PR > F
REGION	1	3.82315668	6.60	0.0149
INSTALLATION(REGION)	8	79.18377483	17.10	0.0001
BLOCK(REGION*INSTALL)	10	9.21332193	1.59	0.1527
TREATMENT	2	3.86231021	3.34	0.0479
REGION X TREATMENT	2	0.03006297	0.03	0.9744
INITIAL BA	1	5.06961603	8.76	0.0057
BA X TREATMENT	2	0.84498695	0.73	0.4896
SOURCE	DF	TYPE III SS	F VALUE	PR > F
REGION	1	0.09106819	0.16	0.6942
INSTALLATION(REGION)	8	63.08155848	13.62	0.0001
BLOCK(REGION*INSTALL)	10	10.50663805	1.81	0.0967
TREATMENT	2	0.15091045	0.13	0.8782
REGION X TREATMENT	2	0.70464515	0.61	0.5501
INITIAL BA	1	4.94937352	8.55	0.0062
BA X TREATMENT	2	0.84498695	0.73	0.4896

Table 33. Gross Basal Area Increment in the First Two Years for the 1985 Ponderosa Pine Installations

DEPENDENT VARIABLE: GBPA11		GROSS BASAL AREA PAI--PERIOD 1		
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	
MODEL	26	89.73785207	3.45145585	
ERROR	33	13.64731834	0.41355510	
CORRECTED TOTAL	59	103.38517041		
MODEL F =	8.35		PR > F = 0.0001	
R-SQUARE	C.V.	ROOT MSE	GBPA11 MEAN	
0.867995	14.3648	0.64308250	4.47679809	
SOURCE	DF	TYPE I SS	F VALUE	PR > F
REGION	1	4.86449637	11.76	0.0016
INSTALLATION(REGION)	8	69.33926863	20.96	0.0001
BLCK(REGION*INSTALL)	10	5.80736593	1.40	0.2216
TREATMENT	2	4.64260661	5.61	0.0080
REGION X TREATMENT	2	0.37941814	0.46	0.6361
INITIAL BA	1	4.48143804	10.84	0.0024
BA X TREATMENT	2	0.22325434	0.27	0.7651
SOURCE	DF	TYPE III SS	F VALUE	PR > F
REGION	1	0.00031166	0.00	0.9783
INSTALLATION(REGION)	8	56.23321240	17.00	0.0001
BLCK(REGION*INSTALL)	10	7.26974117	1.76	0.1088
TREATMENT	2	0.19646122	0.24	0.7899
REGION X TREATMENT	2	0.05067583	0.06	0.9407
INITIAL BA	1	4.48891878	10.85	0.0024
BA X TREATMENT	2	0.22325434	0.27	0.7651

Table 34. Net Basal Area Increment in the Second Two Years for the 1985 Ponderosa Pine Installations

DEPENDENT VARIABLE: NBPAI2		NET BASAL AREA PAI--PERIOD 2		
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	
MODEL	26	863.12552587	33.19713561	
ERROR	33	729.12621321	22.09473373	
CORRECTED TOTAL	59	1552.25173909		
MODEL F =	1.50		PR > F = 0.1339	
R-SQUARE	C.V.	RCCT MSE	NBPAI2 MEAN	
0.542079	180.4067	4.70050356	2.60550365	
SOURCE	DF	TYPE I SS	F VALUE	PR > F
REGION	1	30.50764760	1.38	0.2484
INSTALLATION(REGION)	8	475.51293440	2.69	0.0214
BLOCK(REGION*INSTALL)	10	183.31075338	0.83	0.6038
TREATMENT	2	40.48247874	0.92	0.4100
REGION X TREATMENT	2	9.15338607	0.21	0.3140
INITIAL BA	1	89.79333146	4.06	0.0520
BA X TREATMENT	2	34.36499424	0.78	0.4677
SOURCE	DF	TYPE III SS	F VALUE	PR > F
REGION	1	9.80040624	0.44	0.5100
INSTALLATION(REGION)	8	432.48317812	2.45	0.0336
BLOCK(REGION*INSTALL)	10	238.35062832	1.08	0.4055
TREATMENT	2	57.60946790	1.30	0.2851
REGION X TREATMENT	2	42.51395964	0.96	0.3926
INITIAL BA	1	84.66889295	3.83	0.0588
BA X TREATMENT	2	34.36499424	0.78	0.4677



Table 35. Gross Basal Area Increment in the Second Two Years for the 1985 Ponderosa Pine Installations

DEPENDENT VARIABLE: GBPAI2		GROSS BASAL AREA PAI--PERIOD 2		
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	
MODEL	26	191.93662797	7.38217800	
ERROR	33	15.63633162	0.47382823	
CORRECTED TOTAL	59	207.57295959		
MODEL F =	15.58		PR > F = 0.0001	
R-SQUARE	C.V.	RCOT MSE	GBPAI2 MEAN	
0.924671	17.7662	0.68835182	3.87450935	
SOURCE	DF	TYPE I SS	F VALUE	PR > F
REGION	1	19.21228594	40.55	0.0001
INSTALLATION(REGION)	8	153.20263488	40.44	0.0001
BLCK(REGION*INSTALL)	10	5.13666764	1.08	0.4017
TREATMENT	2	5.33269462	5.63	0.0079
REGION X TREATMENT	2	1.61810448	1.71	0.1970
INITIAL BA	1	5.04423597	10.65	0.0026
BA X TREATMENT	2	2.29000445	2.42	0.1049
SOURCE	DF	TYPE III SS	F VALUE	PR > F
REGION	1	1.84705685	3.90	0.0568
INSTALLATION(REGION)	8	103.87540998	27.40	0.0001
BLCK(REGION*INSTALL)	10	7.46055356	1.57	0.1580
TREATMENT	2	0.36703743	0.39	0.6819
REGION X TREATMENT	2	0.05527940	0.06	0.9434
INITIAL BA	1	4.89851302	10.34	0.0029
BA X TREATMENT	2	2.29000445	2.42	0.1049

Table 36. Second Year Net Basal Area Growth for the 1987 Ponderosa Pine Installations

DEPENDENT VARIABLE: NBA12		2 YEAR NET BASAL AREA GROWTH (SQ.FT/A)		
SOURCE	DF	SUM CF SQUARES	MEAN SQUARE	
MODEL	15	281.50903873	18.76726925	
ERROR	20	408.65535476	20.43276774	
CORRECTED TOTAL	35	690.16439349		
MODEL F =	0.92		PR > F = 0.5596	
R-SQUARE	C.V.	RCCT MSE	NBA12 MEAN	
0.407887	77.8860	4.52026191	5.80369139	
SOURCE	DF	TYPE I SS	F VALUE	PR > F
INSTALLATION	5	50.56304913	0.49	0.7763
BLOCK(INSTALLATION)	6	155.25358882	1.27	0.3165
TREATMENT	2	52.63341450	1.29	0.2977
INITIAL BA	1	14.78829640	0.72	0.4050
BA X BA	1	8.27068988	0.40	0.5318
SOURCE	DF	TYPE III SS	F VALUE	PR > F
INSTALLATION	5	12.02812431	0.12	0.9870
BLOCK(INSTALLATION)	6	168.39012729	1.37	0.2729
TREATMENT	2	26.57773188	0.65	0.5325
INITIAL BA	1	4.90696422	0.24	0.6294
BA X BA	1	8.27068988	0.40	0.5318

Table 37. Second Year Net Volume Growth for the 1987 Ponderosa Pine Installations

DEPENDENT VARIABLE: NV12		2 YEAR NET VOLUME GROWTH (CU.FT/A)		
SOURCE	DF	SUM CF SQUARES	MEAN SQUARE	
MODEL	15	280224.64690320	18681.64312688	
ERROR	20	424092.70898958	21204.63544543	
CORRECTED TCTAL	35	704317.35589178		
MODEL F =	0.68		PR > F = 0.5927	
R-SQUARE	C.V.	RCCT MSE	NV12 MEAN	
0.397867	55.3360	145.61811511	263.15243716	
SOURCE	DF	TYPE I SS	F VALUE	PR > F
INSTALLATION	5	71872.99829626	0.68	0.6452
BLOCK(INSTALLATION)	6	172150.83025116	1.35	0.2807
TREATMENT	2	33960.50815203	0.80	0.4629
INITIAL BA	1	63.35381342	0.00	0.9570
BA X BA	1	2136.95639032	0.10	0.7542
SOURCE	DF	TYPE III SS	F VALUE	PR > F
INSTALLATION	5	63054.52738934	0.59	0.7043
BLOCK(INSTALLATION)	6	162225.14478227	1.28	0.3127
TREATMENT	2	26831.67944301	0.63	0.5415
INITIAL BA	1	2200.17451379	0.10	0.7507
BA X BA	1	2136.95639032	0.10	0.7542

Table 38. Second Year Gross Basal Area Growth for the 1987 Ponderosa Pine Installations

DEPENDENT VARIABLE: GBAI2		2 YEAR GROSS BASAL AREA GROWTH (SQ.FT/A)		
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	
MODEL	15	63.05966407	4.20397760	
ERROR	20	12.97536343	0.64876817	
CORRECTED TOTAL	35	76.03502750		
MODEL F =	6.48		PR > F = 0.0001	
R-SQUARE	C.V.	RCCT MSE	GBAI2 MEAN	
0.829350	11.7996	0.80546146	6.82619549	
SOURCE	DF	TYPE I SS	F VALUE	PR > F
INSTALLATION	5	52.73287930	16.26	0.0001
BLOCK(INSTALLATION)	6	4.49737701	1.16	0.3681
TREATMENT	2	2.38940679	1.84	0.1845
INITIAL BA	1	1.47652143	2.28	0.1470
BA X BA	1	1.56347953	3.03	0.0973
SOURCE	DF	TYPE III SS	F VALUE	PR > F
INSTALLATION	5	51.55131792	15.89	0.0001
BLOCK(INSTALLATION)	6	7.04361364	1.81	0.1482
TREATMENT	2	2.60537859	2.01	0.1604
INITIAL BA	1	2.49489772	3.85	0.0640
BA X BA	1	1.96347953	3.03	0.0973

**Table 39. Second Year Gross Volume Growth for the 1987 Ponderosa Pine Installations**

DEPENDENT VARIABLE: GV12		2 YEAR GROSS VOLUME GROWTH (CU.FT/A)		
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	
MODEL	15	225927.24691479	15061.81646099	
ERROR	20	20416.24269585	1020.81213479	
CORRECTED TOTAL	35	246343.48961064		
MODEL F =	14.75		PR > F = 0.0001	
R-SQUARE	C.V.	ROOT MSE	GV12 MEAN	
0.917123	10.9399	31.95015078	292.05369908	
SOURCE	DF	TYPE I SS	F VALUE	PR > F
INSTALLATION	5	170758.55120555	33.46	0.0001
BLOCK(INSTALLATION)	6	17659.80397512	2.88	0.0343
TREATMENT	2	5230.03466686	2.56	0.1022
INITIAL BA	1	32050.93705998	31.40	0.0001
BA X BA	1	227.92000728	0.22	0.6417
SOURCE	DF	TYPE III SS	F VALUE	PR > F
INSTALLATION	5	128861.24009688	25.25	0.0001
BLOCK(INSTALLATION)	6	6103.55039419	1.00	0.4544
TREATMENT	2	3543.35860893	1.74	0.2018
INITIAL BA	1	1926.30544394	1.89	0.1847
BA X BA	1	227.92000728	0.22	0.6417

Table 40. Second Year Average Height Growth for the 1987 Ponderosa Pine Installations

DEPENDENT VARIABLE: HTI2		2 YEAR AVERAGE HEIGHT GROWTH (FT)		
SOURCE	DF	SUM OF SQUARES		MEAN SQUARE
MODEL	15	6.92801850		0.46186790
ERROR	20	0.25917645		0.01295882
CORRECTED TOTAL	35	7.18719496		
MODEL F =	35.64			PR > F = 0.0001
R-SQUARE	C.V.	RCCT MSE		HTI2 MEAN
0.963939	5.3698	0.11383683		2.11994003
SOURCE	DF	TYPE I SS	F VALUE	PR > F
INSTALLATION	5	6.34629131	97.95	0.0001
BLOCK(INSTALLATION)	6	0.52039613	6.69	0.0005
TREATMENT	2	0.05612784	2.17	0.1408
INITIAL BA	1	0.00199433	0.15	0.6990
BA X BA	1	0.00320889	0.25	0.6242
SOURCE	DF	TYPE III SS	F VALUE	PR > F
INSTALLATION	5	6.13137710	94.63	0.0001
BLOCK(INSTALLATION)	6	0.47704131	6.14	0.0009
TREATMENT	2	0.03651711	1.41	0.2676
INITIAL BA	1	0.00236851	0.18	0.6736
BA X BA	1	0.00320889	0.25	0.6242

Table 41. Second Year Change in Mean Diameter for the 1987 Ponderosa Pine Installations

DEPENDENT VARIABLE: DELTAD2 2 YEAR CHANGE IN MEAN DIAMETER

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE
MODEL	15	0.14513386	0.00967559
ERROR	20	0.09839574	0.00491979
CORRECTED TOTAL	35	0.24352960	

MODEL F = 1.97 PR > F = 0.0789

R-SQUARE	C.V.	RCCT MSE	DELTAD2 MEAN
0.595960	23.1724	0.07014119	0.30269265

SOURCE	DF	TYPE I SS	F VALUE	PR > F
INSTALLATION	5	0.13248618	5.39	0.0027
BLOCK(INSTALLATION)	6	0.00942374	0.32	0.9192
TREATMENT	2	0.00195243	0.20	0.8216
INITIAL BA	1	0.00090159	0.18	0.6732
BA X BA	1	0.00036591	0.08	0.7867

SOURCE	DF	TYPE III SS	F VALUE	PR > F
INSTALLATION	5	0.08712192	3.54	0.0187
BLOCK(INSTALLATION)	6	0.00830943	0.28	0.9390
TREATMENT	2	0.00184601	0.19	0.8304
INITIAL BA	1	0.00056843	0.12	0.7375
BA X BA	1	0.00036591	0.08	0.7867

**SECTION IV**

**Summary Characteristics for One-half  
of the Douglas-fir Installations**



## PLOT SUMMARY REPORT

INSTALLATION 103 GOLD CREEK  
 REGION: CENTRAL IDAHO  
 LEGAL DESCRIPTION: T16N R4E

SECTION 35

OWNERSHIP: FOISE CASCADE  
 MERIDIAN: FOISE

TREATMENT	1	2	3	4	5	6	7	8
RESURGENTIAL CHARACTERISTICS:								
AT TIME OF TREATMENT (1980)								
LIVE TREES PER ACRE	140	200	140	150	200	150	170	160
LIVE BASAL AREA (SQ. FT./A)	67.1	110.9	126.7	81.9	98.7	102.4	117.5	142.2
LIVE TOTAL VOLUME (SCU. FT./A)	1400	2596	3592	1894	1842	2274	2400	1550
CROWN COVER PERCENTAGE	21.9	34.9	35.3	25.8	31.9	30.6	31.3	29.3
MEAN DIAMETER (IN)	3.4	4.9	4.5	3.8	4.5	4.6	4.3	4.4
SITE HEIGHT (FEET)	58.4	71.3	90.5	63.9	54.1	65.4	53.7	52.7
SPECIES COMPOSITION (% CP BA)								
GRAND ASPEN	100.0	95.2	97.3	84.9	80.3	91.1	66.1	56.3
LODGE POLE PINE	0.0	0.0	0.0	15.1	0.0	0.0	0.0	0.0
PCYDELOSA PINE	0.0	4.8	2.7	0.0	19.8	8.9	33.3	13.2

STAND AGE = 61

3 YEARS AFTER TREATMENT (1983)  
 LIVE TREES PER ACRE  
 LIVE BASAL AREA (SQ. FT./A)  
 CROWN COVER PERCENTAGE  
 MEAN DIAMETER (IN)  
 DEAD TREES PER ACRE  
 DEAD BASAL AREA (SQ. FT./A)

4 YEARS AFTER TREATMENT (1984)  
 LIVE TREES PER ACRE  
 LIVE BASAL AREA (SQ. FT./A)  
 CROWN COVER PERCENTAGE  
 MEAN DIAMETER (IN)  
 DEAD TREES PER ACRE  
 DEAD BASAL AREA (SQ. FT./A)

6 YEARS AFTER TREATMENT (1986)  
 LIVE TREES PER ACRE  
 LIVE BASAL AREA (SQ. FT./A)  
 CROWN COVER PERCENTAGE  
 MEAN DIAMETER (IN)  
 DEAD TREES PER ACRE  
 DEAD BASAL AREA (SQ. FT./A)

8 YEARS AFTER TREATMENT (1988)  
 LIVE TREES PER ACRE  
 LIVE BASAL AREA (SQ. FT./A)  
 CROWN COVER PERCENTAGE  
 MEAN DIAMETER (IN)  
 DEAD TREES PER ACRE  
 DEAD BASAL AREA (SQ. FT./A)

9 YEARS AFTER TREATMENT (1988)  
 LIVE TREES PER ACRE  
 LIVE BASAL AREA (SQ. FT./A)  
 CROWN COVER PERCENTAGE  
 MEAN DIAMETER (IN)  
 DEAD TREES PER ACRE  
 DEAD BASAL AREA (SQ. FT./A)

TREATMENT	1	2	3	4	5	6	7	8
RESURGENTIAL CHARACTERISTICS:								
AT TIME OF TREATMENT (1980)								
LIVE TREES PER ACRE	140	200	140	150	200	150	170	160
LIVE BASAL AREA (SQ. FT./A)	90.5	139.6	104.4	133.7	200.6	139.8	152.6	193.8
LIVE TOTAL VOLUME (SCU. FT./A)	2034	3499	2570	2887	1342	3488	3563	1032
CROWN COVER PERCENTAGE	27.4	41.1	30.5	40.1	38.0	42.6	37.6	43.2
MEAN DIAMETER (IN)	6.4	7.7	6.8	7.1	7.6	7.5	7.5	7.6
SITE HEIGHT (FEET)	0.0	0.0	3.7	0.0	0.0	0.0	0.0	0.0
SPECIES COMPOSITION (% CP BA)								
GRAND ASPEN	100.0	95.2	97.3	84.9	80.3	91.1	66.1	56.3
LODGE POLE PINE	0.0	0.0	0.0	15.1	0.0	0.0	0.0	0.0
PCYDELOSA PINE	0.0	4.8	2.7	0.0	19.8	8.9	33.3	13.2



## PLCT SUMMARY REPORT

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

OWNERSHIP: BOISE CASCADE  
 MERIDIAN: WILLAMETTE

TREATMENT	PLCT NUMBER							
	1 200 F	2 CCNT	3 N+S F	4 400 F	5 200 S	6 N+S S	7 400 S	8 CONT
<b>MENSURATIONAL CHARACTERISTICS:</b>								
<b>AT TIME OF TREATMENT (1980)</b>								
	STAND AGE = 83							
LIVE TREES PER ACRE	140	140	160	170	210	170	220	210
LIVE BASAL AREA (SQ. FT/A)	162.8	140.2	170.4	125.9	161.7	149.8	142.0	170.2
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	10.3	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	3.8	3.3	2.8
WESTERN LARCH	0.0	0.0	7.5	6.1	14.3	0.0	4.3	46.3
LODGEPOLE PINE	0.0	0.0	0.0	0.0	0.0	0.0	3.8	0.0
PCNDEBOSA PINE	10.1	9.3	3.5	0.0	0.0	23.7	21.0	0.0
<b>3 YEARS AFTER TREATMENT (1983)</b>								
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	C	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
<b>4 YEARS AFTER TREATMENT (1984)</b>								
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	C	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	C	0	356	0	0	0	0
<b>6 YEARS AFTER TREATMENT (1986)</b>								
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	5593	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	95.8
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
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	356	0	0	0	0
<b>8 YEARS AFTER TREATMENT (1988)</b>								
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	200
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	93.4	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 REFCRT

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

MEMBERSHIP: BOISE CASCADE  
 MERIDIAN: WILLAHETTE

## PLCT NUMBER

1	2	3	4	5	6	7	8
200 F	CCNI	400 F	N+S F	CONT	400 S	200 S	N+S S

## TREATMENT

## MENSURATIONAL CHARACTERISTICS:

## AT TIME OF TREATMENT (1980)

LIVE TREES PER ACRE	200	240	200	210	330	230	240
LIVE BASAL AREA (SQ. FT./A)	87.5	86.5	83.9	80.8	96.7	88.5	96.6
LIVE TOTAL VOLUME (CU. FT./A)	2077	1979	1867	1780	2256	1928	2233
CROWN COMPETITION FACTOR	105	104	104	100	125	104	108
RELATIVE DENSITY INDEX	29.3	30.3	28.3	27.9	35.7	30.0	33.0
MEAN DIAMETER (IN)	9.0	8.1	8.8	8.4	7.3	8.4	8.5
SITE HEIGHT (FEET)	67.4	66.8	61.0	60.6	66.5	62.5	63.8
SPECIES COMPOSITION (% OF BA)							
DOUGLAS-FIR	96.2	95.8	100.0	100.0	99.1	90.8	79.3
GRAND FIR	0.0	0.0	0.0	0.0	0.0	0.7	0.9
WESTERN LARCH	0.0	1.1	0.0	0.0	0.0	0.0	0.0
WESTERN PINE	3.8	3.1	0.0	0.0	0.0	0.0	0.0
PCNDE ROSA PINE	0.0	0.0	0.0	0.0	0.0	8.5	16.8

## 3 YEARS AFTER TREATMENT (1983)

LIVE TREES PER ACRE	180	220	200	210	330	230	260
LIVE BASAL AREA (SQ. FT./A)	97.8	98.7	102.6	97.0	110.9	106.2	112.1
LIVE TOTAL VOLUME (CU. FT./A)	114	115	122	119	140	121	124
CROWN COMPETITION FACTOR	31.0	32.8	32.9	32.0	39.6	35.0	36.5
RELATIVE DENSITY INDEX	10.0	9.1	9.7	9.2	7.8	9.2	9.4
MEAN DIAMETER (IN)	20	20	0.0	0.0	0.0	0.0	10
SITE HEIGHT (FEET)	7.5	2.6	0.0	0.0	0.0	0.0	1.3
DEAD TREES PER ACRE							
DEAD BASAL AREA (SQ. FT./A)							
DEAD TOTAL VOLUME (CU. FT./A)							

## 4 YEARS AFTER TREATMENT (1984)

LIVE TREES PER ACRE	180	220	200	210	330	230	260
LIVE BASAL AREA (SQ. FT./A)	104.7	104.2	109.7	102.4	116.1	112.4	117.6
LIVE TOTAL VOLUME (CU. FT./A)	2676	2587	2646	2461	2902	2655	2960
CROWN COMPETITION FACTOR	118	123	128	124	145	127	130
RELATIVE DENSITY INDEX	32.4	31.3	34.6	33.3	41.0	39.5	37.8
MEAN DIAMETER (IN)	10.3	9.4	10.0	9.4	8.0	9.5	9.7
SITE HEIGHT (FEET)	73.8	72.9	67.2	67.1	71.3	69.0	71.2
DEAD TREES PER ACRE							
DEAD BASAL AREA (SQ. FT./A)							
DEAD TOTAL VOLUME (CU. FT./A)							

## 6 YEARS AFTER TREATMENT (1986)

LIVE TREES PER ACRE	160	200	200	210	330	230	260
LIVE BASAL AREA (SQ. FT./A)	96.3	96.8	118.2	108.8	122.3	120.7	124.5
LIVE TOTAL VOLUME (CU. FT./A)	2532	2483	2938	2691	3131	2919	3203
CROWN COMPETITION FACTOR	108	113	137	129	152	137	137
RELATIVE DENSITY INDEX	29.7	31.6	36.6	34.8	42.6	39.5	39.4
MEAN DIAMETER (IN)	10.5	9.4	10.4	9.8	8.2	8.8	10.0
SITE HEIGHT (FEET)	76.4	74.7	69.6	69.2	73.4	71.3	73.1
DEAD TREES PER ACRE							
DEAD BASAL AREA (SQ. FT./A)							
DEAD TOTAL VOLUME (CU. FT./A)							

## 8 YEARS AFTER TREATMENT (1988)

LIVE TREES PER ACRE	150	200	200	210	330	230	260
LIVE BASAL AREA (SQ. FT./A)	102.5	104.7	127.3	116.0	129.6	128.2	128.0
LIVE TOTAL VOLUME (CU. FT./A)	2816	2776	3280	2960	3443	3230	3460
CROWN COMPETITION FACTOR	112	115	145	140	159	143	140
RELATIVE DENSITY INDEX	30.2	33.4	38.7	36.6	44.5	40.3	39.8
MEAN DIAMETER (IN)	11.2	9.8	10.8	10.1	8.5	10.1	10.5
SITE HEIGHT (FEET)	80.5	78.3	72.7	71.6	76.5	74.3	77.2
DEAD TREES PER ACRE							
DEAD BASAL AREA (SQ. FT./A)							
DEAD TOTAL VOLUME (CU. FT./A)							

PLCT SUMMARY REPORT

INSTALLATION 201 LAPPINBELL CREEK #1  
 REGION: CENTRAL IDAHO CWPBSHP: BCISE CASCADE  
 LEGAL DESCRIPTION: T16N R4E SBCION 21 MERIDIAN: POISR

PLOT NUMBER

INITIAL TREATMENT (1981)	200#N	400#N	0#N	400#E	0#E	200#E
SECOND TREATMENT (1987)	N+K	N+K	N+K	BCNE	NOBE	200#E
1		2	3	4	5	6

NEURATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1981)

STANT AGE = 59

LIVE TREES PER AREA (SQ. FT/A)	16C	160	180	300	260	310
LIVE TOTAL VOLUME (CU. FT/A)	97.4	720.4	180.8	145.1	146.0	132.2
CHRON COMPOSITION FACTOR	208.4	130.4	172.3	375.3	332.8	301.4
RELATIVE DENSITY INDEX	11.3	8.1	10	47.3	11.4	14.0
MEAN DIAMETER (IN)	30.1	23.9	28.8	9.4	45.8	44.5
SITE HEIGHT (FT)	10.6	50.7	54.0	73.1	10.1	8.8
SPECIES COMPOSITION (% OF BA)	61.0	50.7	54.0	73.1	64.8	61.2
DOUGLAS-FIR	96.4	76.0	91.2	84.0	89.2	55.6
WESTERN LARCH	3.6	0.0	0.0	8.3	0.0	0.0
GRAND PINE	0.0	0.0	0.0	0.0	8.1	0.0
LODGEPOLE PINE	0.0	0.0	0.0	7.2	0.0	0.0
PCNDEBOSA PINE	0.0	24.0	8.8	4.6	2.7	43.8

2 YEARS AFTER TREATMENT (1983)

LIVE TREES PER AREA (SQ. FT/A)	16C	160	180	300	260	310
LIVE BASAL VOLUME (CU. FT/A)	105.1	80.4	111.1	157.8	152.2	140.3
CHRON COMPOSITION FACTOR	112.7	89	117	183	173	148
RELATIVE DENSITY INDEX	11.7	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
SITE HEIGHT (FT)	0.0	0.0	0.0	0.0	0.0	0.0
DOUGLAS-FIR	0.0	0.0	0.0	0.0	0.0	0.0
WESTERN LARCH	0.0	0.0	0.0	0.0	0.0	0.0
GRAND PINE	0.0	0.0	0.0	0.0	0.0	0.0
LODGEPOLE PINE	0.0	0.0	0.0	0.0	0.0	0.0
PCNDEBOSA PINE	0.0	0.0	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1985)

LIVE TREES PER AREA (SQ. FT/A)	16C	160	180	300	260	310
LIVE BASAL VOLUME (CU. FT/A)	111.4	89.4	100.9	169.7	164.2	150.6
CHRON COMPOSITION FACTOR	125.0	174.6	208.0	461.1	432.2	373.6
RELATIVE DENSITY INDEX	12.7	28.1	31.7	53.2	50.0	49.0
MEAN DIAMETER (IN)	11.3	10.1	10.1	10.1	10.8	9.4
SITE HEIGHT (FT)	65.4	54.5	58.4	78.4	69.5	65.4
AVERAGE CHRON LENGTH (FT)	26.7	29.4	25.4	26.6	28.4	26.7
DEAD TREES PER AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD BASAL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

6 YEARS AFTER TREATMENT (1987)

LIVE TREES PER AREA (SQ. FT/A)	16C	160	180	290	260	310
LIVE BASAL VOLUME (CU. FT/A)	116.3	96.5	107.2	176.2	171.2	156.6
CHRON COMPOSITION FACTOR	132.2	193.5	226.2	488.9	422.6	399.2
RELATIVE DENSITY INDEX	34.2	29.7	33.7	54.2	51.6	50.5
MEAN DIAMETER (IN)	11.5	10.5	10.4	10.5	11.0	9.5
SITE HEIGHT (FT)	67.1	55.2	60.4	79.5	71.3	67.5
DEAD TREES PER AREA (SQ. FT/A)	0.0	0.0	0.0	1.2	0.0	0.0
DEAD BASAL VOLUME (CU. FT/A)	0.0	0.0	0.0	1.2	0.0	0.0

8 YEARS AFTER TREATMENT (1989)

LIVE TREES PER AREA (SQ. FT/A)	16C	160	170	280	250	290
LIVE BASAL VOLUME (CU. FT/A)	122.0	102.2	110.2	180.7	174.7	158.4
CHRON COMPOSITION FACTOR	136	212.2	238.4	507.7	437.7	415.4
RELATIVE DENSITY INDEX	35.7	31.2	33.4	54.6	51.8	50.1
MEAN DIAMETER (IN)	11.9	10.2	10.9	10.9	11.3	10.1
SITE HEIGHT (FT)	69.5	57.4	61.5	81.4	72.4	69.3
AVERAGE CHRON LENGTH (FT)	34.2	32.0	30.5	32.2	33.1	27.1
DEAD TREES PER AREA (SQ. FT/A)	0.0	0.0	0.0	4.9	4.9	5.0
DEAD BASAL VOLUME (CU. FT/A)	0.0	0.0	0.0	4.9	4.9	5.0

## PLCT SUMMARY REPORT

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

PLCT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1981)	400#H	0#N	200#H	400#H	200#H	0#H
SECOND TREATMENT (1987)	H+K	NCNE	NCNE	NCNE	H+K	H+K
<b>MENSURATIONAL CHARACTERISTICS:</b>						
<b>AT TIME OF TREATMENT (1981)</b>						
	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
LADGEPOLE 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
<b>2 YEARS AFTER TREATMENT (1983)</b>						
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	0.0	0.0	0.0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
<b>4 YEARS AFTER TREATMENT (1985)</b>						
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	31.1	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)	54.7	56.8	56.3	53.5	52.8	60.2
AVERAGE CROWN RATIO (%)	53	43	56	62	59	57
AVERAGE CROWN LENGTH (FT)	26.6	20.1	26.5	30.2	29.2	31.4
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
<b>6 YEARS AFTER TREATMENT (1987)</b>						
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	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
<b>8 YEARS AFTER TREATMENT (1989)</b>						
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	0.0	0.0	0.0	0.0	0.0	0.0
DEAD BASAL AREA (SQ. FT/A)	11.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	227	0	0	0	0	0



PLCT SUMMARY RPPCRT

INSTALLATION 204 JOHNSON'S HILL #1  
REGION: NORTHERN IDAHO  
LEGAL DESCRIPTION: T37M R3E SECTION 4  
CAMPUS: TCT  
HERBICID: BOISR

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

MEMORANDUM CHARACTERISTICS:

AT TIME CP TREATMENT (1981)	STANL AGE =	41
LIVE TREES PER ACRE	266	280
LIVE BASAL VOLUME (SO-PT/A)	121.4	101.7
LIVE TOTAL VOLUME (CU-PT/A)	294.3	229.1
LIVE CON DENSITY FACTOR	14.7	12.6
RELATIVE DENSITY (IN)	39.2	34.6
MEAN DIAMETER (IN)	70.6	64.7
SITE HEIGHT POSITION (X OF BA)	92.6	67.5
SPECIES COMPIR	7.3	78.4
DOUGLAS-PIR		21.6
GRAND PIR		100.0
2 YEARS AFTER TREATMENT (1983)		100.0
LIVE TREES PER ACRE	266	250
LIVE BASAL VOLUME (SO-PT/A)	139.6	114.0
LIVE TOTAL VOLUME (CU-PT/A)	164.3	139.7
LIVE CON DENSITY FACTOR	44.3	37.7
RELATIVE DENSITY (IN)	9.9	9.1
MEAN DIAMETER (IN)	0.0	0.0
DEAD TREES PER ACRE	0.0	1.7
DEAD BASAL VOLUME (SO-PT/A)	0.0	1.7
4 YEARS AFTER TREATMENT (1985)		100.0
LIVE TREES PER ACRE	256	270
LIVE BASAL VOLUME (SO-PT/A)	139.6	172.2
LIVE TOTAL VOLUME (CU-PT/A)	177.1	210.7
LIVE CON DENSITY FACTOR	47.1	49.7
RELATIVE DENSITY (IN)	10.6	11.0
MEAN DIAMETER (IN)	78.5	75.3
SITE HEIGHT POSITION (X OF BA)	32.1	31.5
DEAD TREES PER ACRE	2.5	4.8
DEAD BASAL VOLUME (SO-PT/A)	2.5	4.8
6 YEARS AFTER TREATMENT (1987)		100.0
LIVE TREES PER ACRE	230	250
LIVE BASAL VOLUME (SO-PT/A)	157.4	155.0
LIVE TOTAL VOLUME (CU-PT/A)	177.7	186.6
LIVE CON DENSITY FACTOR	43.4	47.8
RELATIVE DENSITY (IN)	11.9	10.7
MEAN DIAMETER (IN)	81.3	78.3
SITE HEIGHT POSITION (X OF BA)	11.3	9.3
DEAD TREES PER ACRE	1.2	1.8
DEAD BASAL VOLUME (SO-PT/A)	1.2	1.8
2 YEARS AFTER TREATMENT (1989)		100.0
LIVE TREES PER ACRE	230	250
LIVE BASAL VOLUME (SO-PT/A)	169.7	165.7
LIVE TOTAL VOLUME (CU-PT/A)	181.7	193.9
LIVE CON DENSITY FACTOR	49.6	49.0
RELATIVE DENSITY (IN)	11.6	11.0
MEAN DIAMETER (IN)	83.5	80.4
SITE HEIGHT POSITION (X OF BA)	37.5	35.9
DEAD TREES PER ACRE	11.3	9.1
DEAD BASAL VOLUME (SO-PT/A)	11.3	9.1



ELECT SUMMARY REPORT

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

INITIAL TREATMENT (1981) 400#N 200#N 0#N 400#N 200#N 0#N  
 SECOND TREATMENT (1987) 200#N N+K MCNE NONE NONE 200#N N+K

MEASUREMENT CHARACTERISTICS:  
 AT TIME OF TREATMENT (1981)

STAND AGE = 41

	1	2	3	4	5	6
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	3383	2640	1771	3152	2380
LIVE CROWN COMPOSITION FACTOR	44.7	38.1	33.4	27.8	40.2	33.7
RELATIVE DIAMETER (IN)	10.3	10.0	10.1	8.4	9.1	66.5
MEAN HEIGHT (FEET)	73.7	73.2	70.9	61.9	70.3	
SPECIES COMPOSITION (X CP BA)						
DOUGLAS-FIR	65.2	86.5	87.3	84.7	74.3	65.2
WESTERN REDCEDAR	22.0	13.5	12.7	15.3	14.3	3.2
WESTERN LARCH	12.8	0.0	0.0	0.0	0.0	0.0
WESTERN PINE	0.0	0.0	0.0	0.0	0.0	0.0
LCDGEROLE PINE	0.0	0.0	0.0	0.0	0.0	0.0
WESTERN WHITE PINE	0.0	0.0	0.0	0.0	0.0	0.0

2 YEARS AFTER TREATMENT (1983)

LIVE TREES PER ACRE	240	220	190	200	270	250
LIVE BASAL AREA (SQ. FT./A)	161.9	135.3	118.2	89.3	136.9	106.2
LIVE TOTAL VOLUME (CU. FT./A)	4811	4165	3647	2910	4961	3522
RELATIVE DIAMETER (IN)	11.1	10.5	10.2	9.7	10.6	8.8
MEAN HEIGHT (FEET)	71.0	70.0	66.7	59.0	65.0	58.0
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	148.7	129.6	101.6	150.0	110.4
LIVE TOTAL VOLUME (CU. FT./A)	5356	4474	3513	2461	4210	2905
LIVE CROWN COMPOSITION FACTOR	52.4	44.4	35.1	32.7	47.7	36.4
RELATIVE DIAMETER (IN)	51.9	44.4	41.0	39.6	49.2	36.2
MEAN HEIGHT (FEET)	79.4	81.0	76.5	70.4	79.7	72.4
SITE HEIGHT (FEET)	79.4	81.0	76.5	70.4	79.7	72.4
AVERAGE CROWN LENGTH (FT)	36.0	36.1	37.5	29.6	32.1	27.6
AVERAGE TREES PER ACRE	0.0	0.0	0.0	4.4	0.0	2.5
DEAD BASAL AREA (SQ. FT./A)	0.0	0.0	0.0	1.4	0.0	1.0
DEAD TOTAL VOLUME (CU. FT./A)	0.0	0.0	0.0	4.4	0.0	2.5

6 YEARS AFTER TREATMENT (1987)

LIVE TREES PER ACRE	240	220	190	190	250	210
LIVE BASAL AREA (SQ. FT./A)	191.1	159.2	140.7	108.2	154.4	110.5
LIVE TOTAL VOLUME (CU. FT./A)	6017	4983	3954	2738	4535	3070
LIVE CROWN COMPOSITION FACTOR	55.1	46.9	41.2	33.8	47.3	35.3
RELATIVE DIAMETER (IN)	12.1	11.5	11.6	10.2	10.6	9.8
MEAN HEIGHT (FEET)	82.4	85.6	79.1	73.3	82.7	74.8
SITE HEIGHT (FEET)	82.4	85.6	79.1	73.3	82.7	74.8
DEAD TREES PER ACRE	0.0	0.0	0.0	2.0	1.0	1.2
DEAD BASAL AREA (SQ. FT./A)	0.0	0.0	0.0	7.2	7.9	4.0
DEAD TOTAL VOLUME (CU. FT./A)	0.0	0.0	0.0	17.2	17.9	11.3

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	150.7	118.6	158.1	120.7
LIVE TOTAL VOLUME (CU. FT./A)	6623	5586	4378	3132	5052	3457
LIVE CROWN COMPOSITION FACTOR	56.2	49.6	43.1	36.3	50.5	37.1
RELATIVE DIAMETER (IN)	12.4	12.0	12.4	10.7	11.1	10.6
MEAN HEIGHT (FEET)	85.4	89.4	82.5	77.5	85.8	77.4
SITE HEIGHT (FEET)	85.4	89.4	82.5	77.5	85.8	77.4
AVERAGE CROWN LENGTH (FT)	38.7	37.9	38.4	36.5	38.4	31.6
AVERAGE TREES PER ACRE	6.1	0.0	0.0	7.2	7.9	4.0
DEAD BASAL AREA (SQ. FT./A)	18.4	0.0	0.0	17.2	17.9	11.3
DEAD TOTAL VOLUME (CU. FT./A)	18.4	0.0	0.0	17.2	17.9	11.3

## FLCT SUMMARY REPORT

INSTALLATION 206 CABIBEL  
 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	NCBE	N+K
<b>MENSURATIONAL CHARACTERISTICS:</b>						
<b>AT TIME OF TREATMENT (1981)</b>						
	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
<b>SPECIES COMPOSITION (% OF BA)</b>						
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
<b>2 YEARS AFTER TREATMENT (1983)</b>						
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
<b>4 YEARS AFTER TREATMENT (1985)</b>						
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
<b>6 YEARS AFTER TREATMENT (1987)</b>						
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
<b>8 YEARS AFTER TREATMENT (1989)</b>						
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	0	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

PLCT SUMMARY REPORT

INSTALLATION 207 MAHA  
 REGION: NORTHEAST OREGON  
 LEGAL DESCRIPTION: T33N R4W SECTION 13 OWNERSHIP: PCLIAN: BOISE

PLOT NUMBER

INITIAL TREATMENT (1981)  
 SECOND TREATMENT (1987)

	1	2	3	4	5	6
400#N						
N#K						
200#N						
N#N						
400#N						
N#N						
0#N						
N#K						

MENSURATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1991)

STAND AGE = 35

LIVE TREES PER ACRE	PER ACRE	(SQ. FT/A)	(CU. FT/A)	(SQ. FT/A)	(CU. FT/A)	(SQ. FT/A)	(CU. FT/A)	
LIVE BASAL AREA	350	197.7	107.7	260	121.5	136.4	172.0	260
LIVE TOTAL VOLUME	4526	447.4	1173	2923	132	153	4177	4507
CROWN COMPETITION INDEX	20.0	50.0	10.0	38.4	43.0	33.0	53.3	30.7
RELATIVE DENSITY	10.0	10.0	73.0	10.1	66.6	66.6	10.4	7.3
MEAN HEIGHT (FEET)	67.0	73.0	65.0	65.1	66.6	73.0	68.3	68.3
SPECIES COMPOSITION (% OF BA)								
DOUGLAS-FIR	52.0	53.4	70.7	82.5	43.3	43.3	71.0	71.0
GRAND FIR	0.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0
WESTERN LARCH	11.0	11.0	0.0	0.0	0.0	0.0	0.0	0.0
PONDEROSA PINE	36.7	24.1	29.3	17.0	44.0	44.0	21.1	21.1

2 YEARS AFTER TREATMENT (1993)

LIVE TREES PER ACRE	PER ACRE	(SQ. FT/A)	(CU. FT/A)	(SQ. FT/A)	(CU. FT/A)	(SQ. FT/A)	(CU. FT/A)
LIVE BASAL AREA	310	184.4	179.0	220	128.8	146.4	260
LIVE TOTAL VOLUME	4185	571.1	53.4	40.0	10.0	162	144.8
CROWN COMPETITION INDEX	10.4	11.2	0.0	0.0	0.0	10.2	10.8
RELATIVE DENSITY	21.0	6.0	0.0	0.0	0.0	0.0	10.0
MEAN HEIGHT (FEET)	74.0	79.0	71.0	71.0	71.0	71.0	71.0
SITE HEIGHT (FEET)	74.0	86.1	71.0	71.0	71.0	71.0	71.0
AVERAGE CROWN LENGTH (FT)	23.5	30.1	24.4	24.4	29.3	24.0	24.0
DEAD TREES PER ACRE	31.0	31.0	0.0	0.0	0.0	0.0	0.0
DEAD BASAL AREA (SQ. FT/A)	21.7	0.0	0.0	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1985)

LIVE TREES PER ACRE	PER ACRE	(SQ. FT/A)	(CU. FT/A)	(SQ. FT/A)	(CU. FT/A)	(SQ. FT/A)	(CU. FT/A)
LIVE BASAL AREA	290	183.5	191.2	210	142.1	155.3	173.0
LIVE TOTAL VOLUME	4495	557.2	347.1	40.3	39.8	165	170
CROWN COMPETITION INDEX	56.0	50.1	10.0	48.0	10.0	10.0	10.0
RELATIVE DENSITY	40.0	11.0	71.0	73.0	73.0	73.0	73.0
MEAN HEIGHT (FEET)	74.0	86.1	71.0	71.0	71.0	71.0	71.0
AVERAGE CROWN LENGTH (FT)	23.5	30.1	24.4	24.4	29.3	24.0	24.0
DEAD TREES PER ACRE	31.0	31.0	0.0	0.0	0.0	0.0	0.0
DEAD BASAL AREA (SQ. FT/A)	31.0	0.0	0.0	0.0	0.0	0.0	0.0

6 YEARS AFTER TREATMENT (1987)

LIVE TREES PER ACRE	PER ACRE	(SQ. FT/A)	(CU. FT/A)	(SQ. FT/A)	(CU. FT/A)	(SQ. FT/A)	(CU. FT/A)
LIVE BASAL AREA	240	168.0	180.2	180	118.0	150.2	240
LIVE TOTAL VOLUME	4564	525.9	313.4	35.0	35.0	164	171.7
CROWN COMPETITION INDEX	50.0	52.0	11.0	10.0	10.0	10.0	10.0
RELATIVE DENSITY	11.0	84.9	11.0	74.0	74.0	74.0	74.0
MEAN HEIGHT (FEET)	77.0	84.9	74.0	74.0	74.0	74.0	74.0
SITE HEIGHT (FEET)	77.0	84.9	74.0	74.0	74.0	74.0	74.0
AVERAGE CROWN LENGTH (FT)	23.5	30.1	24.4	24.4	29.3	24.0	24.0
DEAD TREES PER ACRE	54.0	54.0	0.0	0.0	0.0	0.0	0.0
DEAD BASAL AREA (SQ. FT/A)	149.0	149.0	0.0	0.0	0.0	0.0	0.0

8 YEARS AFTER TREATMENT (1989)

LIVE TREES PER ACRE	PER ACRE	(SQ. FT/A)	(CU. FT/A)	(SQ. FT/A)	(CU. FT/A)	(SQ. FT/A)	(CU. FT/A)
LIVE BASAL AREA	190	154.0	150.0	110	102.7	156.8	132.0
LIVE TOTAL VOLUME	4255	442.5	153	302.1	417.0	417.0	404.1
CROWN COMPETITION INDEX	16.1	16.1	12.0	11.0	10.0	10.0	10.0
RELATIVE DENSITY	44.0	42.0	11.0	11.0	10.0	10.0	10.0
MEAN HEIGHT (FEET)	75.0	85.0	76.0	76.0	76.0	76.0	76.0
AVERAGE CROWN LENGTH (FT)	30.0	33.0	32.0	32.0	30.0	30.0	30.0
DEAD TREES PER ACRE	75.0	75.0	0.0	0.0	0.0	0.0	0.0
DEAD BASAL AREA (SQ. FT/A)	264.0	264.0	0.0	0.0	0.0	0.0	0.0

FLCT SUMMARY REPORT

INSTALLATION 208 LOVELL VALLEY ROAD  
 REGION: NCRTHERN IDAHO MEMBERSHIP: FCLTATCH  
 LEGAL DESCRIPTION: T46N R5W SECTION 25 ARRIDIAN: BOISE  
 PLOT NUMBER

INITIAL TREATMENT (1981)  
 SECND TREATMENT (1987)

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

MEMORANDUM CHARACTERISTICS:  
 AT TIME OF TREATMENT (1981)

STAND AGE = 88

LIVE TREES PER AC	PER AC	PER AC	PER AC	PER AC	PER AC	PER AC	PER AC	PER AC	PER AC
LIVE TREES	100	120	150	130	210	210	190		
BASAL AREA (SQ-FT/A)	155.0	207.3	216.4	167.8	209.1	209.1	175.5		
TOTAL VOLUME (CU-FT/A)	570.0	788.4	766.6	567.5	706.5	706.5	535.7		
CHRON COMPOSITION (%)	13.9	7.8	19.1	15.7	20.6	20.6	17.9		
RELATIVE DENSITY INDEX	37.9	49.1	53.7	42.8	56.9	56.9	48.6		
MEAN HEIGHT (FT)	16.9	17.8	16.3	15.4	13.3	13.3	13.9		
SITE HEIGHT (FT)	106.2	114.4	103.3	100.2	99.7	99.7	90.6		
SPECIES COMPOSITION (%)									
DOUGLAS-FIR	100.0	100.0	89.9	100.0	94.6	94.6	94.4		
GRAND FIR	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
PCNDEBROSA PINE	0.0	0.0	10.1	0.0	5.4	5.4	5.6		

2 YEARS AFTER TREATMENT (1983)

LIVE TREES PER AC	PER AC	PER AC	PER AC	PER AC	PER AC	PER AC	PER AC	PER AC	PER AC
LIVE TREES	100	120	150	130	210	210	190		
BASAL AREA (SQ-FT/A)	162.1	215.1	225.0	173.0	217.1	217.1	182.5		
TOTAL VOLUME (CU-FT/A)	143.3	186.5	196.6	116.1	217.1	217.1	184		
CHRON COMPOSITION (%)	39.0	50.5	55.2	43.6	58.5	58.5	50.1		
RELATIVE DENSITY INDEX	17.2	18.1	16.6	15.6	13.8	13.8	13.3		
MEAN HEIGHT (FT)	17.2	18.1	16.6	15.6	13.8	13.8	13.3		
SITE HEIGHT (FT)	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
DOUGLAS-FIR	100.0	100.0	89.9	100.0	94.6	94.6	94.4		
GRAND FIR	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
PCNDEBROSA PINE	0.0	0.0	10.1	0.0	5.4	5.4	5.6		

4 YEARS AFTER TREATMENT (1985)

LIVE TREES PER AC	PER AC	PER AC	PER AC	PER AC	PER AC	PER AC	PER AC	PER AC	PER AC
LIVE TREES	100	120	150	130	210	210	190		
BASAL AREA (SQ-FT/A)	167.4	221.3	232.8	174.7	224.2	224.2	188.9		
TOTAL VOLUME (CU-FT/A)	124.7	190.0	207.7	60.3	277.4	277.4	188		
CHRON COMPOSITION (%)	40.0	51.6	56.7	43.3	59.9	59.9	51.4		
RELATIVE DENSITY INDEX	109.4	117.8	107.3	102.4	114.0	114.0	94.5		
MEAN HEIGHT (FT)	41.3	39.5	34.2	29.7	29.3	29.3	28.3		
SITE HEIGHT (FT)	0.0	0.0	0.0	3.9	0.0	0.0	0.0		
DOUGLAS-FIR	100.0	100.0	89.9	100.0	94.6	94.6	94.4		
GRAND FIR	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
PCNDEBROSA PINE	0.0	0.0	10.1	0.0	5.4	5.4	5.6		

6 YEARS AFTER TREATMENT (1987)

LIVE TREES PER AC	PER AC	PER AC	PER AC	PER AC	PER AC	PER AC	PER AC	PER AC	PER AC
LIVE TREES	90	120	150	120	210	210	180		
BASAL AREA (SQ-FT/A)	170.5	229.2	240.5	181.1	231.0	231.0	195.0		
TOTAL VOLUME (CU-FT/A)	65.3	206.8	220.7	62.8	280.9	280.9	162.0		
CHRON COMPOSITION (%)	39.0	51.6	56.7	44.4	61.4	61.4	51.9		
RELATIVE DENSITY INDEX	111.1	119.9	109.3	103.9	104.4	104.4	95.5		
MEAN HEIGHT (FT)	11.1	11.9	10.7	10.3	10.4	10.4	9.5		
SITE HEIGHT (FT)	4.1	4.0	4.0	3.1	4.0	4.0	2.5		
DOUGLAS-FIR	100.0	100.0	89.9	100.0	94.6	94.6	94.4		
GRAND FIR	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
PCNDEBROSA PINE	0.0	0.0	10.1	0.0	5.4	5.4	5.6		

8 YEARS AFTER TREATMENT (1989)

LIVE TREES PER AC	PER AC	PER AC	PER AC	PER AC	PER AC	PER AC	PER AC	PER AC	PER AC
LIVE TREES	90	120	150	120	210	210	180		
BASAL AREA (SQ-FT/A)	178.6	236.9	250.4	189.3	241.0	241.0	160.7		
TOTAL VOLUME (CU-FT/A)	69.1	244.1	257.7	66.3	281.8	281.8	188.7		
CHRON COMPOSITION (%)	40.0	51.6	56.7	45.0	63.3	63.3	51.9		
RELATIVE DENSITY INDEX	113.1	120.3	110.8	105.1	106.3	106.3	97.0		
MEAN HEIGHT (FT)	11.3	11.9	10.7	10.3	10.4	10.4	9.5		
SITE HEIGHT (FT)	4.1	4.0	4.0	3.1	4.0	4.0	2.5		
DOUGLAS-FIR	100.0	100.0	89.9	100.0	94.6	94.6	94.4		
GRAND FIR	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
PCNDEBROSA PINE	0.0	0.0	10.1	0.0	5.4	5.4	5.6		

PLCT SUMMARY REPORT

INSTALLATION 209 ADLEY WASHINGTON  
REGION: NORTHEAST WASHINGTON SECTION 27  
LEGAL DESCRIPTION: T34W R38E SECTION 27  
MEMBERSHIP: BCISE, CASCADE, WILLABETTS

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

MEMORATIONAL CHARACTERISTICS:

AT TIME CP TREATMENT (1981)	STANC	AGE	=	68
LIVE TREES PER ACRE	177C	150	190	230
LIVE BASAL AREA (SQ-FT/A)	182.33	121.17	124.33	150.55
LIVE TOTAL VOLUME (CU-FT/A)	62233	38440	34666	44422
CROWN COMPENSITY FACTOR	182.77	130	1433	1725
RELATIVE DENSITY INDEX	48.77	34.92	37.96	45.59
MEAN DIAMETER (IN)	48.77	34.92	37.96	45.59
SITE HEIGHT (FT)	102.3	92.24	78.9	82.7
SPECIES COMPOSITION (% CP BA)	100.0	100.0	100.0	100.0
DOUGLAS-FIR	100.0	100.0	100.0	100.0
WESTERN LARCH	0.0	0.0	0.0	0.0

2 YEARS AFTER TREATMENT (1983)

LIVE TREES PER ACRE	177C	150	190	230	210	140
LIVE BASAL AREA (SQ-FT/A)	192.4	127.13	132.50	157.80	167.11	129.01
LIVE TOTAL VOLUME (CU-FT/A)	719.89	413.0	450.0	570.0	613.0	413.0
CROWN COMPENSITY INDEX	50.77	36.0	39.33	47.0	48.11	35.80
RELATIVE DENSITY INDEX	14.47	12.50	11.33	11.20	12.11	13.00
MEAN DIAMETER (IN)	14.47	12.50	11.33	11.20	12.11	13.00
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	177C	140	190	230	210	140
LIVE BASAL AREA (SQ-FT/A)	201.22	126.77	140.50	165.17	178.00	137.51
LIVE TOTAL VOLUME (CU-FT/A)	722.11	417.11	415.07	518.73	562.22	451.51
CROWN COMPENSITY FACTOR	52.33	35.99	41.26	48.88	50.54	37.55
RELATIVE DENSITY INDEX	14.8	9.73	11.67	11.55	12.55	13.41
MEAN DIAMETER (IN)	14.8	9.73	11.67	11.55	12.55	13.41
SITE HEIGHT (FT)	108.34	97.33	84.37	87.33	92.34	98.37
AVERAGE CROWN LENGTH (FT)	32.0	29.10	28.66	26.40	28.34	33.20
AVERAGE CROWN LBRGTH (FT)	32.0	29.10	28.66	26.40	28.34	33.20
DEAD TREES PER ACRE	0.0	6.53	0.0	0.0	0.0	0.0
DEAD BASAL AREA (SQ-FT/A)	0.0	6.53	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU-FT/A)	0.0	6.53	0.0	0.0	0.0	0.0

6 YEARS AFTER TREATMENT (1987)

LIVE TREES PER ACRE	177C	140	190	230	210	140
LIVE BASAL AREA (SQ-FT/A)	208.99	131.66	147.11	165.17	185.18	144.44
LIVE TOTAL VOLUME (CU-FT/A)	764.44	441.56	443.23	523.88	601.89	483.66
CROWN COMPENSITY FACTOR	20.0	36.33	42.66	48.33	52.11	38.99
RELATIVE DENSITY INDEX	53.99	33.11	41.99	48.33	52.11	38.99
MEAN DIAMETER (IN)	53.99	33.11	41.99	48.33	52.11	38.99
SITE HEIGHT (FT)	110.0	99.10	86.11	89.10	94.11	100.11
AVERAGE CROWN LENGTH (FT)	0.0	6.53	0.0	6.18	0.0	0.0
AVERAGE CROWN LBRGTH (FT)	0.0	6.53	0.0	6.18	0.0	0.0
DEAD TREES PER ACRE	0.0	19.3	0.0	0.0	0.0	0.0
DEAD BASAL AREA (SQ-FT/A)	0.0	19.3	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU-FT/A)	0.0	19.3	0.0	0.0	0.0	0.0

8 YEARS AFTER TREATMENT (1989)

LIVE TREES PER ACRE	170	140	190	220	210	140
LIVE BASAL AREA (SQ-FT/A)	179.63	136.73	151.66	170.55	191.55	150.44
LIVE TOTAL VOLUME (CU-FT/A)	720.4	467.3	465.0	550.2	630.3	513.0
CROWN COMPENSITY FACTOR	54.9	37.33	43.66	49.44	53.99	40.51
RELATIVE DENSITY INDEX	15.33	13.33	12.71	11.99	12.99	14.00
MEAN DIAMETER (IN)	15.33	13.33	12.71	11.99	12.99	14.00
SITE HEIGHT (FT)	112.38	102.33	87.41	91.34	96.39	102.40
AVERAGE CROWN LENGTH (FT)	38.4	32.10	33.33	29.10	34.00	37.00
AVERAGE CROWN LBRGTH (FT)	38.4	32.10	33.33	29.10	34.00	37.00
DEAD TREES PER ACRE	0.0	6.53	0.0	0.0	0.0	0.0
DEAD BASAL AREA (SQ-FT/A)	0.0	6.53	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU-FT/A)	0.0	6.53	0.0	0.0	0.0	0.0

## PLCT SUMMARY REPORT

INSTALLATION 210 RUCK CREEK  
 REGION: NORTH EAST WASHINGTON  
 LEGAL DESCRIPTION: T31N R43E SECTION 26

MEMBERSHIP: INLAND EMPIRE  
 BRIDIAN: WILLABETTE

PLCT NUMBER	1		2		3		4		5		6	
	OWN NCH	200#N NCH	200#N NCH	400#N NCH	0#N NCH	0#N NCH	200#N NCH	200#N NCH	400#N NCH	200#N NCH	400#N NCH	
INITIAL TREATMENT (1981)	270	340	260	54	220	290	250	250	250	250	250	
SECOND TREATMENT (1987)	132830	16835	14643		13342	13969	1497	1497	1497	1497	1497	
	4315	5495	4592		4105	4544	4733	4733	4733	4733	4733	
	6055	6255	7026		7250	7750	7750	7750	7750	7750	7750	
	8020	7499	7520		9708	8251	8251	8251	8251	8251	8251	
	0000	0000	0000		0000	1253	1253	1253	1253	1253	1253	
	1900	2501	2009		0000	1300	1300	1300	1300	1300	1300	

## MENSURATIONAL CHARACTERISTICS:

AI TIME OF TREATMENT (1981)

LIVE TREES PER ACRE  
 LIVE BASAL AREA (SQ. FT./A)  
 LIVE TOTAL VOLUME (CU. FT./A)  
 CROWN COVER (%)  
 RELATIVE DENSITY INDEX  
 MEAN HEIGHT (FT.)  
 SPREAD (FT.)  
 SPECIES COMPOSITION (% OF BA)  
 DOUGLAS-FIR  
 WESTERN LARCH  
 LODGEPOLE PINE  
 PONDEROSA PINE

## 2 YEARS AFTER TREATMENT (1983)

LIVE TREES PER ACRE  
 LIVE BASAL AREA (SQ. FT./A)  
 LIVE TOTAL VOLUME (CU. FT./A)  
 CROWN COVER (%)  
 RELATIVE DENSITY INDEX  
 MEAN HEIGHT (FT.)  
 SPREAD (FT.)  
 SPECIES COMPOSITION (% OF BA)  
 DOUGLAS-FIR  
 WESTERN LARCH  
 LODGEPOLE PINE  
 PONDEROSA PINE

## 4 YEARS AFTER TREATMENT (1985)

LIVE TREES PER ACRE  
 LIVE BASAL AREA (SQ. FT./A)  
 LIVE TOTAL VOLUME (CU. FT./A)  
 CROWN COVER (%)  
 RELATIVE DENSITY INDEX  
 MEAN HEIGHT (FT.)  
 SPREAD (FT.)  
 SPECIES COMPOSITION (% OF BA)  
 DOUGLAS-FIR  
 WESTERN LARCH  
 LODGEPOLE PINE  
 PONDEROSA PINE

## 6 YEARS AFTER TREATMENT (1987)

LIVE TREES PER ACRE  
 LIVE BASAL AREA (SQ. FT./A)  
 LIVE TOTAL VOLUME (CU. FT./A)  
 CROWN COVER (%)  
 RELATIVE DENSITY INDEX  
 MEAN HEIGHT (FT.)  
 SPREAD (FT.)  
 SPECIES COMPOSITION (% OF BA)  
 DOUGLAS-FIR  
 WESTERN LARCH  
 LODGEPOLE PINE  
 PONDEROSA PINE

## 8 YEARS AFTER TREATMENT (1989)

LIVE TREES PER ACRE  
 LIVE BASAL AREA (SQ. FT./A)  
 LIVE TOTAL VOLUME (CU. FT./A)  
 CROWN COVER (%)  
 RELATIVE DENSITY INDEX  
 MEAN HEIGHT (FT.)  
 SPREAD (FT.)  
 SPECIES COMPOSITION (% OF BA)  
 DOUGLAS-FIR  
 WESTERN LARCH  
 LODGEPOLE PINE  
 PONDEROSA PINE

PLCT SUMMARY REPORT

INSTALLATION 211  
REGION: NORTHEAST  
LEGAL DESCRIPTION: WASHINGTON R43R

CWERSHIF: INLAND  
HERIDIAN: WILLAETTE

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	NCNE	R#B	0#N
					K#K

SENSUBATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1981)

STANT AGE = 34

LIVE TREES PER ACRE	PER ACRE	(SQ. FT/A)	(SQ. FT/A)	(SQ. FT/A)	(SQ. FT/A)	(SQ. FT/A)	(SQ. FT/A)	(SQ. FT/A)	(SQ. FT/A)	(SQ. FT/A)
LIVE BASAL VOLUME	466	490	470	410	460	520				
LIVE TOTAL VOLUME	3574	3813	3167	4266	3310	1819				
RELATIVE DENSITY INDEX	58.2	60.0	57.0	60.8	61.7	64.3				
MEAN HEIGHT (FT)	65.7	64.4	64.5	69.7	68.6	68.0				
SITE HEIGHT POSITION (K OR BA)	99.3	58.3	90.9	94.9	86.1	97.2				
DOUGLAS-FIR	0.0	0.0	0.0	0.0	0.0	0.0				
WESTERN LARCH	0.0	1.0	0.0	0.0	0.0	0.0				
LCGDGEPOLE WHITE PINE	0.0	0.0	0.0	1.4	0.0	0.0				
WESTERN WHITE PINE	0.0	0.0	0.0	1.5	0.0	0.0				
PCNDEBOSA PINE	0.0	0.0	9.1	1.1	11.5	2.2				

2 YEARS AFTER TREATMENT (1983)

LIVE TREES PER ACRE	466	490	460	390	480	520
LIVE BASAL VOLUME (SQ. FT/A)	178.17	190.29	166.33	199.22	194.71	199.55
RELATIVE DENSITY INDEX	61.4	65.5	58.3	64.0	66.2	68.4
MEAN HEIGHT (IN)	8.4	8.4	8.1	9.7	8.6	8.4
DEAD BASAL VOLUME (SQ. FT/A)	0.0	0.0	3.4	4.2	0.0	0.0

4 YEARS AFTER TREATMENT (1985)

LIVE TREES PER ACRE	466	470	390	270	460	510
LIVE BASAL VOLUME (SQ. FT/A)	190.38	206.55	166.33	182.54	208.72	214.48
RELATIVE DENSITY INDEX	44.3	48.5	39.7	46.6	49.7	49.4
MEAN HEIGHT (IN)	64.3	67.9	55.9	54.7	68.9	72.3
DEAD BASAL VOLUME (SQ. FT/A)	0.0	25.2	27.8	28.4	28.4	26.1

6 YEARS AFTER TREATMENT (1987)

LIVE TREES PER ACRE	456	430	380	260	450	500
LIVE BASAL VOLUME (SQ. FT/A)	482.6	507.6	434.0	191.3	504.1	542.4
RELATIVE DENSITY INDEX	66.3	74.1	58.2	56.1	71.7	75.2
MEAN HEIGHT (IN)	73.6	72.8	74.8	71.9	79.5	79.5
DEAD BASAL VOLUME (SQ. FT/A)	1.2	13.1	22.6	40.1	33.7	2.3

8 YEARS AFTER TREATMENT (1989)

LIVE TREES PER ACRE	436	400	350	220	420	490
LIVE BASAL VOLUME (SQ. FT/A)	207.7	208.9	182.9	185.2	227.7	232.1
RELATIVE DENSITY INDEX	31.6	32.3	46.1	51.2	58.4	57.0
MEAN HEIGHT (IN)	24.4	26.8	20.9	19.4	24.8	26.7
DEAD BASAL VOLUME (SQ. FT/A)	4.8	27.9	30.3	33.4	31.6	27.4

## FLCT SUMMARY REPORT

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

PLOT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1981)	400#N	200#N	0#N	400#B	200#N	0#N
SECOND TREATMENT (1987)	200#N	200#N	NCNE	NCNE	NCNE	N+R
<b>MEASUREMENTAL CHARACTERISTICS:</b>						
<b>AT TIME OF TREATMENT (1981)</b>						
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
<b>SPECIES COMPOSITION (% OF BA)</b>						
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
<b>2 YEARS AFTER TREATMENT (1983)</b>						
LIVE TREES PER ACRE	190	210	180	190	220	190
LIVE BASAL AREA (SQ. FT/A)	78.0	95.6	102.5	93.7	81.0	78.6
CROWN COMPETITION FACTOR	94	115	116	109	101	95
RELATIVE DENSITY INDEX	26.7	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	0.0	0.0	0.0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
<b>4 YEARS AFTER TREATMENT (1985)</b>						
LIVE TREES PER ACRE	190	210	180	190	220	190
LIVE BASAL AREA (SQ. FT/A)	83.3	101.7	107.6	99.5	87.0	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)	66.0	69.5	74.5	68.7	64.9	68.9
AVERAGE CROWN RATIO (%)	4.5	4.4	5.2	5.1	4.9	4.7
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	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
<b>6 YEARS AFTER TREATMENT (1987)</b>						
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	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
<b>8 YEARS AFTER TREATMENT (1989)</b>						
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 (%)	5.1	5.0	5.7	5.8	5.4	5.2
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	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

INSTALLATION 213 KAWELA  
 LEGAL: NORTHEAST CRECON  
 DESCRIPTION: T25 R35E SECTION 6  
 MEMBERSHIP: BCISE, CALLADE  
 MERICIAN, HILLAPETTE

PLOT NUMBER	MEMBERSHIP				
	1	2	3	4	5
INITIAL TREATMENT (1987)	1	2	3	4	5
SECOND TREATMENT (1987)	1	2	3	4	5
STANC AVE =					

MENSURATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1981)	1	2	3	4	5	6
LIVE TREES PER ACRE	14.4	16.0	11.5	10.7	13.0	9.0
LIVE BASAL AREA (SQ. FT/A)	1081.5	1314.7	289.7	347.0	93.4	56.7
LIVE TOTAL VOLUME (CU. FT/A)	111.1	310.5	28.9	100.3	27.4	190.1
CROWN COMPETITION INDEX	31.0	32.1	26.3	28.0	27.6	19.5
MEAN DIAMETER (IN)	96.0	91.0	53.7	54.1	80.0	51.7
SPECIES HEIGHT COMPOSITION (% CF BA)						
DOUGLAS-FIR	17.8	13.8	41.1	20.9	42.3	30.0
GRAND FIR	44.6	22.8	15.0	41.1	3.3	16.0
WESTERN LARCH	33.6	55.6	43.0	48.3	45.3	54.0
ENGELMANN SPRUCE	3.3	3.7	0.0	9.5	2.2	0.0

2 YEARS AFTER TREATMENT (1983)

LIVE TREES PER ACRE	14.0	16.0	11.0	10.0	13.0	9.0
LIVE BASAL AREA (SQ. FT/A)	111.2	114.8	98.6	111.3	36.1	11.7
LIVE TOTAL VOLUME (CU. FT/A)	32.0	11.5	27.5	10.3	5.8	20.5
RELATIVE DENSITY INDEX	12.0	11.5	12.8	14.0	11.0	12.0
MEAN DIAMETER (IN)	0.0	0.0	0.0	0.0	0.0	0.0
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

4 YEARS AFTER TREATMENT (1985)

LIVE TREES PER ACRE	12.0	15.0	11.0	10.0	10.0	9.0
LIVE BASAL AREA (SQ. FT/A)	102.4	116.3	105.1	115.6	76.7	60.6
LIVE TOTAL VOLUME (CU. FT/A)	33.3	35.6	33.9	38.7	22.7	20.2
CROWN COMPETITION INDEX	11.0	11.4	10.9	10.7	11.0	13.0
RELATIVE DENSITY INDEX	29.0	31.7	28.0	30.3	42.0	13.0
MEAN DIAMETER (IN)	14.0	11.0	13.0	14.0	11.0	12.0
SITE HEIGHT (FEET)	5.0	5.5	5.4	5.6	5.4	5.5
AVERAGE CROWN LENGTH (FT)	20.5	25.3	32.0	33.5	27.0	30.1
DEAD TREES PER ACRE	13.0	5.0	0.0	0.0	2.0	1.0
DEAD BASAL AREA (SQ. FT/A)	13.0	1.6	0.0	0.0	2.0	1.0
DEAD TOTAL VOLUME (CU. FT/A)	4.0	1.6	0.0	0.0	0.9	0.5

6 YEARS AFTER TREATMENT (1987)

LIVE TREES PER ACRE	12.0	15.0	11.0	10.0	10.0	9.0
LIVE BASAL AREA (SQ. FT/A)	105.6	122.7	110.2	119.7	80.4	59.0
LIVE TOTAL VOLUME (CU. FT/A)	36.6	38.0	36.1	40.3	23.4	18.7
CROWN COMPETITION INDEX	11.4	12.1	10.5	11.1	12.0	13.0
RELATIVE DENSITY INDEX	27.0	35.0	25.6	31.0	43.0	16.0
MEAN DIAMETER (IN)	16.0	12.3	13.6	14.8	12.1	13.0
SITE HEIGHT (FEET)	5.0	5.0	0.0	0.0	0.0	0.0
AVERAGE CROWN LENGTH (FT)	13.0	11.0	0.0	0.0	0.0	0.0
DEAD TREES PER ACRE	13.0	5.0	0.0	0.0	2.0	1.0
DEAD BASAL AREA (SQ. FT/A)	13.0	1.6	0.0	0.0	2.0	1.0
DEAD TOTAL VOLUME (CU. FT/A)	4.0	1.6	0.0	0.0	0.9	0.5

8 YEARS AFTER TREATMENT (1989)

LIVE TREES PER ACRE	12.0	15.0	11.0	10.0	11.0	9.0
LIVE BASAL AREA (SQ. FT/A)	108.7	125.1	115.6	125.1	74.4	61.7
LIVE TOTAL VOLUME (CU. FT/A)	37.8	40.6	38.4	42.6	26.5	19.5
CROWN COMPETITION INDEX	11.4	12.5	11.0	11.2	12.0	13.0
RELATIVE DENSITY INDEX	30.0	36.4	31.0	32.1	44.0	16.0
MEAN DIAMETER (IN)	12.0	12.0	13.0	13.1	12.0	13.0
SITE HEIGHT (FEET)	9.7	9.7	10.0	9.9	12.0	11.0
AVERAGE CROWN LENGTH (FT)	37.4	38.8	43.0	43.4	44.5	44.0
DEAD TREES PER ACRE	13.0	5.0	0.0	0.0	2.0	1.0
DEAD BASAL AREA (SQ. FT/A)	13.0	1.6	0.0	0.0	2.0	1.0
DEAD TOTAL VOLUME (CU. FT/A)	4.0	1.6	0.0	0.0	0.9	0.5

PLCT SUMMARY REPORT

INSTALLATION 214 FIFTEENMILE CREEK CMN # SHIP: PCLISE, CAGCAGE  
REGION: NORTHEAST WASHINGTON SECTION 2 MERIDIAN: MILLAPETTE  
LEGAL DESCRIPTION: T39N R37E  
PLOT NUMBER

INITIAL TREATMENT (1981)  
SECOND TREATMENT (1987)

	1	2	3	4	5	6
200#N						
400#N						
200#N						

MENSURATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1981)

STAND AGE = 50

LIVE TREES PER ACRE	220	170	260	100	150	210
LIVE BASAL AREA (SQ. FT./A)	65.5	39.6	122.0	203.5	97.2	120.3
LIVE TOTAL VOLUME (CU. FT./A)	13314	1560	2517	1001	2243	1397
LRCMWN COMPENSATION INDEX	1384	108	137	100	117	113
RELATIVE DENSITY FACTOR	27.1	28.6	37.9	45.1	37.7	30.8
MEAN DIAMETER (IN)	56.6	62.6	65.5	63.8	65.2	59.3
SITE HEIGHT (FEET)	94.5	57.5	100.0	71.4	100.0	70.0
SPECIES COMPOSITION (% CF GA)	0.0	0.0	0.0	0.0	0.0	0.0
DOUGLASS-FIR	5.1	0.0	0.0	0.0	0.0	0.0
GRAND FIR	0.0	0.0	0.0	3.0	0.0	0.0
RED CEDAR	0.0	0.0	0.0	0.0	0.0	0.0
WESTERN LARCH	0.0	0.0	0.0	0.0	0.0	0.0

2 YEARS AFTER TREATMENT (1983)

LIVE TREES PER ACRE	220	170	260	100	150	210
LIVE BASAL AREA (SQ. FT./A)	77.9	100.0	127.2	105.2	108.1	104.3
LIVE TOTAL VOLUME (CU. FT./A)	1554	1125	1673	1281	1393	1275
LRCMWN COMPENSATION INDEX	108	117	152	115	125	133
RELATIVE DENSITY FACTOR	27.9	31.0	41.3	31.8	33.3	33.8
MEAN DIAMETER (IN)	33.0	33.4	5.3	11.0	10.2	9.0
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

4 YEARS AFTER TREATMENT (1985)

LIVE TREES PER ACRE	220	170	260	100	150	210
LIVE BASAL AREA (SQ. FT./A)	83.0	110.8	143.0	116.1	119.8	117.4
LIVE TOTAL VOLUME (CU. FT./A)	1554	1225	1673	1281	1393	1275
LRCMWN COMPENSATION INDEX	108	117	152	115	125	133
RELATIVE DENSITY FACTOR	30.4	33.5	43.4	34.4	36.5	36.9
MEAN DIAMETER (IN)	63.4	65.3	71.7	71.5	71.4	65.1
SITE HEIGHT (FEET)	23.4	32.4	27.9	36.2	31.0	27.1
AVERAGE CROWN LENGTH (FT)	0.0	0.0	0.0	0.0	0.0	0.0
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

6 YEARS AFTER TREATMENT (1987)

LIVE TREES PER ACRE	220	170	260	100	150	210
LIVE BASAL AREA (SQ. FT./A)	96.0	119.8	155.2	125.9	129.0	126.7
LIVE TOTAL VOLUME (CU. FT./A)	2155	1537	2077	1337	1476	1304
LRCMWN COMPENSATION INDEX	115	134	177	113	147	144
RELATIVE DENSITY FACTOR	32.1	35.5	48.0	36.0	38.4	39.1
MEAN DIAMETER (IN)	65.7	71.4	74.5	73.5	73.1	70.2
SITE HEIGHT (FEET)	0.0	0.0	0.0	0.0	0.0	0.0
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

8 YEARS AFTER TREATMENT (1989)

LIVE TREES PER ACRE	220	170	250	160	150	210
LIVE BASAL AREA (SQ. FT./A)	103.7	127.6	182.9	135.7	134.5	135.7
LIVE TOTAL VOLUME (CU. FT./A)	2507	1440	1883	1472	1564	1334
LRCMWN COMPENSATION INDEX	124	140	185	144	154	152
RELATIVE DENSITY FACTOR	34.5	37.3	49.3	38.5	35.3	41.2
MEAN DIAMETER (IN)	68.4	73.7	76.9	75.3	75.3	70.5
SITE HEIGHT (FEET)	28.4	33.0	31.4	30.3	36.0	34.3
AVERAGE CROWN LENGTH (FT)	0.0	0.0	1.2	0.0	0.0	0.0
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

PLCT SUMMARY REPORT

INSTALLATION 215 FIFTEENMILE CREEK #2  
 REGION: NORTHEAST WASHINGTON CMAA RSHIP: BCISE CASSETTE  
 LEGAL DESCRIPTION: T39N R37E SECTION 25 MERICIAN: WILLEPETTE

PLOT NUMBER

INITIAL TREATMENT (1981)  
 SECOND TREATMENT (1987)

	1	2	3	4	5	6
0#N		200#N	400#N	200#N	400#N	0#N
N+K		200#N	N+K	ACNE	200#N	0#N

MEASUREMENTAL CHARACTERISTICS:

AT TIME OF TREATMENT (1981)

STANU AGE = 51

LIVE TREES PER ACRE	18C	220	140	240	26C	240
BASAL AREA (SQ.FT/A)	64.0	69.9	57.0	83.4	10.3	66.7
TOTAL VOLUME (CU.FT/A)	130.5	142.7	120.1	175.5	197.0	125.8
COMPETITION FACTOR	22.7	25.3	15.6	31.1	32.0	33
RELATIVE DENSITY INDEX	56.1	55.2	54.3	64.3	8.0	25.0
MEAN DIAMETER (IN)						7.1
SITE HEIGHT (FEET)						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	18C	220	140	240	26C	240
BASAL AREA (SQ.FT/A)	73.9	84.2	65.8	104.0	103.2	78.4
TOTAL VOLUME (CU.FT/A)	179.4	214.7	184.4	279.5	144.3	187.0
COMPETITION FACTOR	27.0	32.0	25.1	38.5	16.7	11.1
RELATIVE DENSITY INDEX	61.5	61.3	61.3	71.0	9.1	57.5
MEAN DIAMETER (IN)						5.0
SITE HEIGHT (FEET)						27.4
AVERAGE CROWN LENGTH (FT)	26.6	27.0	32.2	28.7	27.3	26.0
AVERAGE TREES PER ACRE	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TREES PER ACRE						
DEAD BASAL AREA (SQ.FT/A)						

4 YEARS AFTER TREATMENT (1985)

LIVE TREES PER ACRE	18C	220	140	240	26C	240
BASAL AREA (SQ.FT/A)	82.3	97.2	80.4	118.3	116.5	87.0
TOTAL VOLUME (CU.FT/A)	179.4	214.7	184.4	279.5	277.6	187.0
COMPETITION FACTOR	27.0	32.0	25.1	38.5	16.7	11.1
RELATIVE DENSITY INDEX	61.5	61.3	61.3	71.0	9.1	57.5
MEAN DIAMETER (IN)						5.0
SITE HEIGHT (FEET)						27.4
AVERAGE CROWN LENGTH (FT)	26.6	27.0	32.2	28.7	27.3	26.0
AVERAGE TREES PER ACRE	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TREES PER ACRE						
DEAD BASAL AREA (SQ.FT/A)						
DEAD TOTAL VOLUME (CU.FT/A)						

6 YEARS AFTER TREATMENT (1987)

LIVE TREES PER ACRE	180	220	140	240	26C	240
BASAL AREA (SQ.FT/A)	85.0	105.7	88.9	129.3	126.2	98.5
TOTAL VOLUME (CU.FT/A)	210.6	239.4	209.8	313.5	305.2	213.4
COMPETITION FACTOR	29.0	34.5	27.0	41.1	15.2	13.4
RELATIVE DENSITY INDEX	64.0	63.4	63.8	70.1	12.4	33.7
MEAN DIAMETER (IN)						6.0
SITE HEIGHT (FEET)						20.0
AVERAGE CROWN LENGTH (FT)	0.0	0.0	0.0	0.0	0.0	0.0
AVERAGE TREES PER ACRE						
DEAD TREES PER ACRE						
DEAD BASAL AREA (SQ.FT/A)						
DEAD TOTAL VOLUME (CU.FT/A)						

8 YEARS AFTER TREATMENT (1989)

LIVE TREES PER ACRE	100	210	140	240	26C	240
BASAL AREA (SQ.FT/A)	98.0	105.0	96.4	138.1	134.0	100.0
TOTAL VOLUME (CU.FT/A)	224.1	256.4	235.3	343.0	341.0	230.0
COMPETITION FACTOR	11.5	13.4	11.2	16.3	14.0	13.1
RELATIVE DENSITY INDEX	30.0	35.8	28.2	43.1	43.0	35.5
MEAN DIAMETER (IN)						6.2
SITE HEIGHT (FEET)						3.4
AVERAGE CROWN LENGTH (FT)	30.3	30.6	36.5	28.5	30.0	23.5
AVERAGE TREES PER ACRE	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TREES PER ACRE						
DEAD BASAL AREA (SQ.FT/A)						
DEAD TOTAL VOLUME (CU.FT/A)						

## PLOT SUMMARY REPORT

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

FLOT 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	NCME	N+K	HCME	N+K	NONE
<b>MENSURATIONAL CHARACTERISTICS:</b>						
<b>AT TIME OF TREATMENT (1981)</b>						
	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
<b>2 YEARS AFTER TREATMENT (1983)</b>						
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	153.0
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	0.0	0.0	0.0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
<b>4 YEARS AFTER TREATMENT (1985)</b>						
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	3767	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 (%)	4.0	4.4	4.3	3.5	3.4	4.0
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
<b>6 YEARS AFTER TREATMENT (1987)</b>						
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)	10.2	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
<b>8 YEARS AFTER TREATMENT (1989)</b>						
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	200	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 (%)	4.2	4.3	4.6	3.5	3.7	3.8
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

INSTALLATION 217 EMANUEL CREEK  
 REGION: NORTHEAST WASHINGTON SECTION 29 MEMBERSHIP: ACISE CASCADE  
 LEGAL DESCRIPTION: T39N R33E SECTION 29 MERICIAN: ALLAPETIC

PLOT NUMBER

INITIAL TREATMENT (1981)  
 SECND TREATMENT (1987)

1	2	3	4	5	6
200#N	0#N	400#N	400#N	0#N	200#N
ACNE	ACNE	N+K	ACNE	N+K	ACNE

MEASURATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1981)

STANC AGE = 75

LIVE TREES PER ACRE	270	260	120	230	250	130
LIVE JASAL AREA (SQ.FT/A)	115.0	121.8	102.5	121.0	142.5	77.6
LIVE TOTAL VOLUME (CU.FT/A)	2630	2569	1034	2523	3456	1732
CROWN COMPETITION INDEX	140	144	100	143	162	94
RELATIVE DENSITY	38.5	45.0	27.0	39.7	49.7	20.0
MEAN DIAMETER (IN)	7.0	7.2	8.1	8.4	10.2	3.0
SITE HEIGHT (FEET)	67.2	72.9	81.1	87.1	102.0	42.5
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	96.1	92.9	100.0	100.0	100.0	93.0
WESTERN LARCH	3.9	7.0	0.0	0.0	0.0	6.9

2 YEARS AFTER TREATMENT (1983)

LIVE TREES PER ACRE	270	260	120	230	250	130
LIVE JASAL AREA (SQ.FT/A)	127.2	130.3	111.8	135.1	151.1	86.3
LIVE TOTAL VOLUME (CU.FT/A)	4151	4251	1118	1508	1700	1002
CROWN COMPETITION INDEX	41.7	42.1	30.8	41.7	46.6	29.4
RELATIVE DENSITY	9.3	9.6	0.0	10.4	10.5	0.0
MEAN DIAMETER (IN)	7.2	7.4	8.2	8.7	10.4	3.0
SITE HEIGHT (FEET)	72.5	76.4	87.4	92.2	107.7	51.0
AVERAGE CROWN LENGTH (FT)	27.0	27.8	35.0	31.7	30.2	10.3
DEAD TREES PER ACRE	0.0	0.0	0.0	0.0	0.0	1.0
DEAD JASAL AREA (SQ.FT/A)	0.0	0.0	0.0	0.0	0.0	1.2

4 YEARS AFTER TREATMENT (1985)

LIVE TREES PER ACRE	270	260	120	230	250	130
LIVE JASAL AREA (SQ.FT/A)	136.2	137.0	117.4	145.4	158.4	91.4
LIVE TOTAL VOLUME (CU.FT/A)	3327	3564	1204	3736	4044	2198
CROWN COMPETITION INDEX	46.1	43.9	32.0	46.5	48.8	29.0
RELATIVE DENSITY	5.5	5.8	0.0	7.2	7.7	3.7
MEAN DIAMETER (IN)	7.2	7.6	8.7	9.3	10.8	5.2
SITE HEIGHT (FEET)	72.5	76.4	87.4	92.2	107.7	51.0
AVERAGE CROWN LENGTH (FT)	27.0	27.8	35.0	31.7	30.2	10.3
DEAD TREES PER ACRE	0.0	0.0	0.0	0.0	0.0	1.0
DEAD JASAL AREA (SQ.FT/A)	0.0	0.0	0.0	0.0	0.0	1.2

6 YEARS AFTER TREATMENT (1987)

LIVE TREES PER ACRE	260	260	120	230	250	130
LIVE JASAL AREA (SQ.FT/A)	144.1	144.0	123.8	154.4	163.5	95.1
LIVE TOTAL VOLUME (CU.FT/A)	3535	3827	1225	4084	4352	2453
CROWN COMPETITION INDEX	16.5	16.4	12.5	17.3	18.2	11.5
RELATIVE DENSITY	4.5	4.3	0.0	4.6	4.3	2.3
MEAN DIAMETER (IN)	10.0	10.1	13.8	11.1	11.0	4.0
SITE HEIGHT (FEET)	75.0	78.0	85.7	91.9	99.7	44.3
AVERAGE CROWN LENGTH (FT)	1.0	0.0	0.0	0.0	0.0	1.4
DEAD TREES PER ACRE	1.2	0.0	0.0	0.0	0.0	1.3
DEAD JASAL AREA (SQ.FT/A)	1.2	0.0	0.0	0.0	0.0	1.3

8 YEARS AFTER TREATMENT (1989)

LIVE TREES PER ACRE	200	200	120	230	250	130
LIVE JASAL AREA (SQ.FT/A)	179.1	140.2	127.8	130.5	146.2	103.3
LIVE TOTAL VOLUME (CU.FT/A)	3791	4022	1233	4030	4345	2683
CROWN COMPETITION INDEX	17.0	10.7	10.0	11.7	11.6	6.1
RELATIVE DENSITY	10.1	6.2	0.0	7.8	7.7	3.4
MEAN DIAMETER (IN)	10.4	11.0	14.0	11.0	11.4	4.7
SITE HEIGHT (FEET)	76.4	81.4	91.4	96.6	103.4	51.0
AVERAGE CROWN LENGTH (FT)	30.3	25.2	38.4	32.5	31.0	12.7
DEAD TREES PER ACRE	1.0	0.0	0.0	0.0	0.0	1.0
DEAD JASAL AREA (SQ.FT/A)	1.2	0.0	0.0	0.0	0.0	1.3

PLOT SUMMARY REPORT

INSTALLATION 218 SSCND CRBK  
REGION: NORTHEAST WASHINGTON SECTION: CNR BRP: BOISE CASCADE  
LEGAL DESCRIPTION: T39N R34E SECTION: RRBIAN: VILLAGE

PLOT NUMBER	INITIAL TREATMENT (1981)					
	1	2	3	4	5	6
400#	200#	0#	200#	400#	0#	
NONI	200#	NONI	NONI	200#	200#	N#K

MEASUREMENTAL CHARACTERISTICS:

STAND AGE = 100

AT TIME OF TREATMENT (1981)	1981	1982	1983	1984	1985	1986
LIVE TREES PER AC	150	170	170	130	120	170
BASAL AREA (SQ. FT/A)	221.5	102.7	192.0	90.5	79.8	111.0
VOLUME (CU. FT/A)	221.5	242.6	192.0	227.6	189.3	274.7
CONCENTRATION (%)	28.3	31.7	29.1	26.9	24.0	33.5
DIAMETER (IN)	10.6	10.5	10.0	11.3	11.0	10.9
HIGHT (FT)	69.6	64.0	57.6	72.3	66.8	70.9
POSITION (R OF BA)	95.6	100.0	100.0	100.0	100.0	95.2
DOUGLAS-FIR	4.4	0.0	0.0	0.0	0.0	4.2
WESTERN LARCH	0.0	0.0	0.0	0.0	0.0	0.0

2 YEARS AFTER TREATMENT (1983)

LIVE TREES PER AC	150	170	170	130	120	170
BASAL AREA (SQ. FT/A)	103.1	113.4	100.6	98.9	89.0	123.2
VOLUME (CU. FT/A)	111.2	132.1	118.8	110.9	100.0	136.4
CONCENTRATION (%)	30.8	34.1	31.2	28.6	26.1	36.1
DIAMETER (IN)	11.0	11.1	10.4	11.8	11.7	11.5
HIGHT (FT)	0.0	0.0	0.0	0.0	0.0	0.0
POSITION (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1985)

LIVE TREES PER AC	150	170	170	130	120	170
BASAL AREA (SQ. FT/A)	114.5	130.6	123.9	105.1	97.7	131.5
VOLUME (CU. FT/A)	128.1	140.0	124.4	127.9	110.6	140.7
CONCENTRATION (%)	32.2	36.0	33.1	30.2	27.0	38.1
DIAMETER (IN)	11.7	11.5	10.7	12.2	12.5	11.9
HIGHT (FT)	75.3	67.4	61.2	74.8	70.4	75.0
POSITION (SQ. FT/A)	25.3	26.6	27.9	27.1	29.6	28.6
DOUGLAS-FIR	0.0	0.0	0.0	0.0	0.0	0.0
WESTERN LARCH	0.0	0.0	0.0	0.0	0.0	0.0

6 YEARS AFTER TREATMENT (1987)

LIVE TREES PER AC	150	170	170	130	120	170
BASAL AREA (SQ. FT/A)	120.6	129.9	115.7	111.3	103.6	140.2
VOLUME (CU. FT/A)	131.6	146.8	129.7	129.5	111.1	149.3
CONCENTRATION (%)	31.5	37.8	34.6	31.4	29.2	40.0
DIAMETER (IN)	12.1	11.8	11.4	12.4	12.6	12.3
HIGHT (FT)	77.0	68.0	62.4	76.5	72.1	76.0
POSITION (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

8 YEARS AFTER TREATMENT (1989)

LIVE TREES PER AC	150	170	170	130	120	170
BASAL AREA (SQ. FT/A)	125.7	134.1	107.9	114.3	107.4	146.6
VOLUME (CU. FT/A)	132.9	142.0	111.9	122.1	111.5	139.4
CONCENTRATION (%)	33.3	38.0	31.9	32.7	30.0	41.3
DIAMETER (IN)	12.4	12.5	11.2	12.4	13.3	12.5
HIGHT (FT)	78.4	72.5	63.5	77.4	73.3	78.4
POSITION (SQ. FT/A)	34.4	35.0	32.6	34.4	35.0	34.0
DOUGLAS-FIR	0.0	0.0	1.2	0.0	0.0	0.0
WESTERN LARCH	0.0	0.0	0.9	0.0	0.0	0.0

FLCT SUMMARY REPORT

INSTALLATION 219 LITTLE SALMON  
 REGION: CENTRAL IDAHO  
 LEGAL DESCRIPTION: T18N R1E SECTION 13  
 CWPRESERVE: BCISR CASCAD  
 REPRIDIAR: BOISR

INITIAL TREATMENT (1981) SECOND TREATMENT (1987)	START AGE = 67					
	1	2	3	4	5	6
	400#N	200#N	0#N	400#N	0#N	200#N
	NCNE	200#N	N+K	200#N	NCNE	N+K

MEMORANDUM CHARACTERISTICS:

AT TIME OF TREATMENT (1981)	START AGE = 67					
LIVE TREES PER ACRE	240	170	290	270	220	270
LIVE BASAL VOLUME (SQ-FT/A)	143.9	109.6	142.7	137.1	96.8	140.0
LIVER TOTAL VOLUME (CU-PT/A)	369.9	264.8	345.6	330.1	198.7	271.7
CHRONN COMP DENSITY INDEX	15.0	11.8	16.6	13.8	11.2	14.2
RELATIVE DENSITY INDEX	44.4	31.3	46.3	44.1	32.3	44.8
MEAN DIAMETER (IN)	10.4	6.9	9.5	9.6	5.3	9.8
SITE HEIGHT (FEET)	73.3	68.4	71.3	60.6	55.3	57.1
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-PINE	77.1	82.8	94.4	43.6	83.3	60.2
PCNDBROSA	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 VOLUME (SQ-PT/A)	153.4	121.6	151.5	150.1	102.7	149.4
CHRONN COMP DENSITY INDEX	16.1	12.7	17.7	15.0	11.9	17.4
RELATIVE DENSITY INDEX	47.1	35.9	48.4	47.2	33.8	47.9
MEAN DIAMETER (IN)	10.5	11.4	9.8	10.1	3.3	10.1
SITE HEIGHT (FEET)	0.0	0.0	0.0	0.0	0.0	0.0
PCNDBROSA	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 VOLUME (SQ-PT/A)	165.0	130.6	160.4	161.6	109.1	159.4
LIVER TOTAL VOLUME (CU-PT/A)	450.1	336.0	406.4	376.6	235.1	335.4
CHRONN COMP DENSITY INDEX	16.5	13.5	18.6	15.9	11.5	15.6
RELATIVE DENSITY INDEX	49.4	37.8	50.4	49.5	35.3	49.4
MEAN DIAMETER (IN)	11.3	11.8	10.4	10.7	5.7	10.4
SITE HEIGHT (FEET)	77.4	72.7	75.2	63.4	59.4	61.5
AVERAGE CHROWN LENGTH (FT)	29.4	31.9	27.0	27.5	24.8	27.5
DEAD TREES PER ACRE	0.0	0.0	0.0	0.0	0.0	0.0
DEAD BASAL VOLUME (SQ-PT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU-PT/A)	0.0	0.0	0.0	0.0	0.0	0.0

6 YEARS AFTER TREATMENT (1987)

LIVE TREES PER ACRE	240	170	290	270	220	260
LIVE BASAL VOLUME (SQ-PT/A)	174.2	137.8	167.4	172.7	114.3	164.9
LIVER TOTAL VOLUME (CU-PT/A)	484.6	364.3	433.4	413.1	257.1	357.3
CHRONN COMP DENSITY INDEX	17.7	14.0	19.2	16.8	13.0	15.9
RELATIVE DENSITY INDEX	51.1	39.5	52.1	52.5	36.6	50.2
MEAN DIAMETER (IN)	11.5	12.5	10.3	10.8	9.4	10.8
SITE HEIGHT (FEET)	79.1	74.0	76.9	65.5	61.4	63.1
DEAD TREES PER ACRE	0.0	0.0	0.0	0.0	0.0	0.0
DEAD BASAL VOLUME (SQ-PT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU-PT/A)	0.0	0.0	0.0	0.0	0.0	0.0

8 YEARS AFTER TREATMENT (1989)

LIVE TREES PER ACRE	240	170	290	250	220	260
LIVE BASAL VOLUME (SQ-PT/A)	181.7	144.9	175.0	173.5	119.9	173.9
LIVER TOTAL VOLUME (CU-PT/A)	513.4	390.8	460.9	431.6	274.0	386.0
CHRONN COMP DENSITY INDEX	18.2	14.5	19.9	16.9	13.5	16.6
RELATIVE DENSITY INDEX	52.8	41.5	54.0	51.3	37.0	52.3
MEAN DIAMETER (IN)	11.8	12.5	10.5	11.3	10.0	11.3
SITE HEIGHT (FEET)	80.4	76.5	78.4	67.5	62.5	65.6
AVERAGE CHROWN LENGTH (FT)	33.9	38.0	30.0	32.1	31.8	31.5
DEAD TREES PER ACRE	0.0	0.0	0.0	0.0	0.0	0.0
DEAD BASAL VOLUME (SQ-PT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU-PT/A)	0.0	0.0	0.0	0.0	0.0	0.0

## PLOT SUMMARY REPORT

INSTALLATION 220 GRCUSE CREEK  
 REGION: CENTRAL IDAHO  
 LEGAL DESCRIPTION: T16N R4E SECTION 36  
 CAMESSHIP: ILL  
 REPLICAN: POISZ

PLOT NUMBER  
 INITIAL TREATMENT (1981)  
 SECOND TREATMENT (1987)

1	2	3	4	5	6
400#N	C#N	400#N	200#N	0#N	200#N
NCNE	NCNE	200#N	200#N	N#N	NCNE

## MEMORATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1981)

START AGE = 89

LIVE TREES PER ACRES  
 LIVE BASAL AREA (SQ. FT./A)  
 LIVE TOTAL VOLUME (CU. FT./A)  
 CROWN DENSITY (%)  
 RELATIVE DENSITY (%)  
 REAR DIAMETER (IN)  
 SITE HEIGHT (FT)  
 SPECIES COMPOSITION (% OF BA)  
 DOUGLAS-FIR  
 GRAND FIR  
 WESTERN LARCH  
 LODGEPOLE PINE  
 PONDEROSA PINE

2 YEARS AFTER TREATMENT (1983)

LIVE TREES PER ACRES  
 LIVE BASAL AREA (SQ. FT./A)  
 CROWN DENSITY (%)  
 RELATIVE DENSITY (%)  
 REAR DIAMETER (IN)  
 DEAD TREES PER ACRES  
 DEAD BASAL AREA (SQ. FT./A)

4 YEARS AFTER TREATMENT (1985)

LIVE TREES PER ACRES  
 LIVE BASAL AREA (SQ. FT./A)  
 LIVE TOTAL VOLUME (CU. FT./A)  
 CROWN DENSITY (%)  
 RELATIVE DENSITY (%)  
 REAR DIAMETER (IN)  
 SITE HEIGHT (FT)  
 AVERAGE CROWN LENGTH (FT)  
 AVERAGE CROWN PERCENTAGE  
 DEAD TREES PER ACRES  
 DEAD BASAL AREA (SQ. FT./A)  
 DEAD TOTAL VOLUME (CU. FT./A)

6 YEARS AFTER TREATMENT (1987)

LIVE TREES PER ACRES  
 LIVE BASAL AREA (SQ. FT./A)  
 LIVE TOTAL VOLUME (CU. FT./A)  
 CROWN DENSITY (%)  
 RELATIVE DENSITY (%)  
 REAR DIAMETER (IN)  
 SITE HEIGHT (FT)  
 AVERAGE CROWN LENGTH (FT)  
 AVERAGE CROWN PERCENTAGE  
 DEAD TREES PER ACRES  
 DEAD BASAL AREA (SQ. FT./A)  
 DEAD TOTAL VOLUME (CU. FT./A)

8 YEARS AFTER TREATMENT (1989)

LIVE TREES PER ACRES  
 LIVE BASAL AREA (SQ. FT./A)  
 LIVE TOTAL VOLUME (CU. FT./A)  
 CROWN DENSITY (%)  
 RELATIVE DENSITY (%)  
 REAR DIAMETER (IN)  
 SITE HEIGHT (FT)  
 AVERAGE CROWN LENGTH (FT)  
 AVERAGE CROWN PERCENTAGE  
 DEAD TREES PER ACRES  
 DEAD BASAL AREA (SQ. FT./A)  
 DEAD TOTAL VOLUME (CU. FT./A)

330	330	300	190	310	230
1387	1292	290	190	310	177
321	318	219	282	161	333
167	151	128	128	161	142
46	41	36	35	48	37
8	9	8	5	8	9
64	76	58	71	42	10
53	48	47	53	33	15
29	29	22	31	24	10
1	0	0	0	1	4
33	0	4	0	28	7
				16	15
				57	77
				33	41
				22	10
				30	8
				11	2
				2	4
				3	6
				1	7
				3	8
				2	9
				1	0
				3	1
				2	2
				1	3
				3	4
				2	5
				1	6
				3	7
				2	8
				1	9
				3	0
				2	1
				1	2
				3	3
				2	4
				1	5
				3	6
				2	7
				1	8
				3	9
				2	0
				1	1
				3	2
				2	3
				1	4
				3	5
				2	6
				1	7
				3	8
				2	9
				1	0
				3	1
				2	2
				1	3
				3	4
				2	5
				1	6
				3	7
				2	8
				1	9
				3	0
				2	1
				1	2
				3	3
				2	4
				1	5
				3	6
				2	7
				1	8
				3	9
				2	0
				1	1
				3	2
				2	3
				1	4
				3	5
				2	6
				1	7
				3	8
				2	9
				1	0
				3	1
				2	2
				1	3
				3	4
				2	5
				1	6
				3	7
				2	8
				1	9
				3	0
				2	1
				1	2
				3	3
				2	4
				1	5
				3	6
				2	7
				1	8
				3	9
				2	0
				1	1
				3	2
				2	3
				1	4
				3	5
				2	6
				1	7
				3	8
				2	9
				1	0
				3	1
				2	2
				1	3
				3	4
				2	5
				1	6
				3	7
				2	8
				1	9
				3	0
				2	1
				1	2
				3	3
				2	4
				1	5
				3	6
				2	7
				1	8
				3	9
				2	0
				1	1
				3	2
				2	3
				1	4
				3	5
				2	6
				1	7
				3	8
				2	9
				1	0
				3	1
				2	2
				1	3
				3	4
				2	5
				1	6
				3	7
				2	8
				1	9
				3	0
				2	1
				1	2
				3	3
				2	4
				1	5
				3	6
				2	7
				1	8
				3	9
				2	0
				1	1
				3	2
				2	3
				1	4
				3	5
				2	6
				1	7
				3	8
				2	9
				1	0
				3	1
				2	2
				1	3
				3	4
				2	5
				1	6
				3	7
				2	8
				1	9
				3	0
				2	1
				1	2
				3	3
				2	4
				1	5
				3	6
				2	7
				1	8
				3	9
				2	0
				1	1
				3	2
				2	3
				1	4
				3	5
				2	6
				1	7
				3	8
				2	9
				1	0
				3	1
				2	2
				1	3
				3	4
				2	5
				1	6
				3	7
				2	8
				1	9
				3	0
				2	1
				1	2
				3	3
				2	4
				1	5
				3	6
				2	7
				1	8
				3	9
				2	0
				1	1
				3	2
				2	3
				1	4
				3	5
				2	6
				1	7
				3	8
				2	9
				1	0
				3	1
				2	2
				1	3
				3	4
				2	5
				1	6
				3	7
				2	8
				1	9
				3	0
				2	1
				1	2
				3	3
				2	4
				1	5
				3	6
				2	7
				1	8
				3	9
				2	0
				1	1
				3	2
				2	3
				1	4
				3	5
				2	6



## PLCT SUMMARY RPT

INSTALLATION 221 LITTLE MUD CREEK #1  
 REGION: CENTRAL ICAHO CWNESHIP: BOISE CASCADE  
 LEGAL DESCRIPTION: T20N R1E SECTION 33 EBBICIAN: BOISE

PLOT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1981)	0#N	200#N	400#N	200#N	0#N	400#N
SECND TREATMENT (1987)	NCNE	NCNE	NCNE	200#N	N+R	200#N
<b>MENSURATIONAL CHARACTERISTICS:</b>						
<b>AT TIME OF TREATMENT (1981)</b>						
	STAND AGE = 82					
LIVE TREES PER ACRE	230	170	210	170	160	140
LIVE BASAL AREA (SQ. FT/A)	149.6	94.9	104.7	116.6	149.8	93.1
LIVE TOTAL VOLUME (CU. FT/A)	3965	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)	10.3	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
<b>SPECIES COMPOSITION (% OF BA)</b>						
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
<b>2 YEARS AFTER TREATMENT (1983)</b>						
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
<b>4 YEARS AFTER TREATMENT (1985)</b>						
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
<b>6 YEARS AFTER TREATMENT (1987)</b>						
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
<b>8 YEARS AFTER TREATMENT (1989)</b>						
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

FLCT SUMMARY REPORT

INSTALLATION 222 WEST HILL CREEK #1  
 REGION: CERRITOS DAHO  
 LEGAL DESCRIPTION: T18N R3E S2CT1E36  
 CWRBSHIP: JDL  
 BRIDIAN: FOISE

PLOT NUMBER

INITIAL TREATMENT (1981)  
 SECCND TREATMENT (1987)

1	2	3	4	5	6
400#N	CAN	200#N	400#N	0#N	200#N
200#N	KCHE	N+K	N+K	N+K	MORE

--- MENSUBATICAL CHARACTERISTICS: ---

AT	TINR	OF	TREATMENT	(1981)	STANT	AGE =	71		
LIVE	TREES	PER	ACBR	580	380	250	280	400	240
LIVE	BASAL	AREA	(SQ-PT/A)	161.1	118.4	119.7	138.8	168.4	125.3
LIVE	TOTAL	VOLUME	(CU-PT/A)	359.6	260.7	257.5	377.0	374.4	262.2
LIVE	CROWN	COMPETITION	FACTOR	3.20E	4.149	3.9.1	4.5.0	5.6.7	4.0.1
REPLAT	DIAHMET	(IN)	INDEX	60.4	43.0	39.1	49.7	58.7	40.1
REPLAT	DIAHMET	(IN)		59.5	60.8	59.3	77.8	63.0	65.1
SITE	HEIGHT	(FT)		94.2	90.6	100.0	82.2	85.9	87.1
SPECIES	CORRECTION	(% OF BA)		0.8	9.0	0.0	13.2	14.1	12.9
DOUGLAS-	PIN			5.8	9.2	0.0	0.0	0.0	0.0
GRAND	YIP								
PONDEROSA	PINR								

--- 2 YEARS AFTER TREATMENT (1983) ---

LIVE	TREES	PER	ACBR	580	380	250	280	400	240
LIVE	BASAL	AREA	(SQ-PT/A)	172.1	127.8	130.5	150.1	177.1	132.7
LIVE	TOTAL	VOLUME	(CU-PT/A)	411.8	315.9	316.2	477.0	520.6	414.4
REPLAT	DIAHMET	(IN)	INDEX	63.7	45.6	41.6	49.9	59.0	41.8
REPLAT	DIAHMET	(IN)		7.4	7.8	9.8	9.9	9.0	10.1
DEAD	BASAL	AREA	(SQ-PT/A)	0.0	0.0	0.0	0.0	0.0	0.0

--- 4 YEARS AFTER TREATMENT (1985) ---

LIVE	TREES	PER	ACBR	580	380	250	280	400	240
LIVE	BASAL	AREA	(SQ-PT/A)	182.0	137.5	138.5	161.1	187.0	139.1
LIVE	TOTAL	VOLUME	(CU-PT/A)	422.9	321.6	316.0	454.4	518.4	330.2
REPLAT	DIAHMET	(IN)	INDEX	66.2	48.2	43.6	50.3	61.4	43.3
REPLAT	DIAHMET	(IN)		7.6	8.1	10.1	10.3	9.3	10.9
SITE	HEIGHT	(FT)		62.2	65.7	64.0	81.2	65.3	67.9
AVERAGE	CHRON	LIGHT	(%)	15.2	24.4	24.7	27.4	23.5	24.8
AVERAGE	TREES	ACBR		0.0	0.0	0.0	0.0	0.0	0.0
DEAD	BASAL	AREA	(SQ-PT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD	TOTAL	VOLUME	(CU-PT/A)	0.0	0.0	0.0	0.0	0.0	0.0

--- 6 YEARS AFTER TREATMENT (1987) ---

LIVE	TREES	PER	ACBR	570	380	250	280	400	240
LIVE	BASAL	AREA	(SQ-PT/A)	186.0	143.5	144.5	170.1	192.5	142.8
LIVE	TOTAL	VOLUME	(CU-PT/A)	434.7	341.0	335.7	488.0	456.9	315.8
REPLAT	DIAHMET	(IN)	INDEX	67.7	49.7	45.3	52.5	62.2	44.2
REPLAT	DIAHMET	(IN)		7.8	7.3	10.3	82.9	69.4	40.2
SITE	HEIGHT	(FT)		63.1	67.3	65.4	82.9	66.4	69.1
DEAD	BASAL	AREA	(SQ-PT/A)	1.2	0.0	0.0	0.0	0.0	0.0
DEAD	TOTAL	VOLUME	(CU-PT/A)	1.2	0.0	0.0	0.0	0.0	0.0

--- 8 YEARS AFTER TREATMENT (1989) ---

LIVE	TREES	PER	ACBR	550	380	250	280	400	240
LIVE	BASAL	AREA	(SQ-PT/A)	189.4	148.0	149.1	175.8	199.0	146.6
LIVE	TOTAL	VOLUME	(CU-PT/A)	445.6	356.8	350.6	512.2	475.6	327.9
REPLAT	DIAHMET	(IN)	INDEX	67.3	50.9	46.1	53.7	64.4	45.1
REPLAT	DIAHMET	(IN)		7.9	8.4	10.5	10.7	9.5	10.6
SITE	HEIGHT	(FT)		64.3	68.1	66.1	84.4	67.2	69.9
AVERAGE	CHRON	LIGHT	(%)	18.3	25.4	28.4	34.9	25.0	26.7
AVERAGE	TREES	ACBR		3.0	0.0	0.0	0.0	0.0	0.0
DEAD	BASAL	AREA	(SQ-PT/A)	3.7	0.0	0.0	0.0	0.0	0.0
DEAD	TOTAL	VOLUME	(CU-PT/A)	3.7	0.0	0.0	0.0	0.0	0.0

PLCT SUMMARY REPORT

INSTALLATION 223 WEST HILL CREEK #2  
 REGION: CENTRAL IDAHO CWNERSHIP: IDL  
 LEGAL DESCRIPTION: T12N R3W SECTION 36 MERIDIAN: POISE

FLOT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1981)	0#N	200#N	400#N	200#B	0#B	400#B
SECOND TREATMENT (1987)	NCNE	NCNE	NCNE	N+K	B+B	N+K
<b>MENSURATIONAL CHARACTERISTICS:</b>						
<b>AT TIME OF TREATMENT (1981)</b>						
	STAND AGE = 75					
LIVE TREES PER ACRE	260	250	250	250	180	160
LIVE BASAL AREA (SQ. FT/A)	107.9	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
<b>2 YEARS AFTER TREATMENT (1983)</b>						
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)	C.C	0.0	0.0	0.0	0.0	0.0
<b>4 YEARS AFTER TREATMENT (1985)</b>						
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)	C	0	0	0	0	0
<b>6 YEARS AFTER TREATMENT (1987)</b>						
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	C	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)	C	0	0	0	0	89
<b>8 YEARS AFTER TREATMENT (1989)</b>						
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	C	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

INSTALLATION 224 KAISER BUTTE #1  
REGION: CENTRAL WASHINGTON OWNERSHIP: BGISE 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
<b>MEASUREMENTAL CHARACTERISTICS:</b>						
<b>AT TIME OF TREATMENT (1981)</b>						
STAND AGE =	74					
LIVE TREES PER ACRE	90	130	90	100	120	85
LIVE BASAL AREA (SQ. FT/A)	124.5	156.7	137.7	156.6	188.4	168.3
LIVE TOTAL VOLUME (CU. FT/A)	4376	5692	5316	5390	7051	6786
CROWN COMPETITION FACTOR	115	145	119	136	163	135
RELATIVE DENSITY INDEX	31.2	40.6	33.6	38.0	45.7	38.5
MEAN DIAMETER (IN)	15.9	14.9	16.8	16.9	17.0	19.0
SITE HEIGHT (FEET)	105.0	113.9	118.0	117.6	114.4	120.8
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	85.8	86.4	98.8	97.8	94.9	96.5
GRAND FIR	14.1	13.6	1.2	2.2	5.1	3.5
<b>2 YEARS AFTER TREATMENT (1983)</b>						
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	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	3.1	0.0	0.0	0.0	0.0	0.0
<b>4 YEARS AFTER TREATMENT (1985)</b>						
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)	81	51	0	0	1	0
<b>6 YEARS AFTER TREATMENT (1987)</b>						
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
<b>8 YEARS AFTER TREATMENT (1989)</b>						
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	204.2
LIVE TOTAL VOLUME (CU. FT/A)	5666	7668	7214	7488	9313	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	49.3
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



## PLCT SUMMARY REPORT

INSTALLATION 226 CLEMAN MTN  
 REGION: CENTRAL WASHINGTON OWNERSHIP: 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	MOBB	N+K
<b>MENSURATIONAL CHARACTERISTICS:</b>						
<b>AT TIME OF TREATMENT (1981)</b>						
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)	257.1	205.1	159.5	182.5	224.7	197.9
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
PCNDREROSA FINE	0.0	0.0	0.0	3.1	0.0	2.4
<b>2 YEARS AFTER TREATMENT (1983)</b>						
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	0.0	0.0	0.0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
<b>4 YEARS AFTER TREATMENT (1985)</b>						
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)	303.4	262.8	217.1	242.0	280.2	240.6
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	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
<b>6 YEARS AFTER TREATMENT (1987)</b>						
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)	322.5	285.0	237.1	267.9	300.2	259.9
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	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
<b>8 YEARS AFTER TREATMENT (1989)</b>						
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)	341.3	304.0	253.7	289.9	318.5	280.5
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)	81.5	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	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



PICT SUMMARY REPORT

INSTALLATION 228 ICKOCOT HTN WEST  
REGION: CENTRAL WASHINGTON  
LEGAL DESCRIPTION: T20N R16E SECTION 36  
CWBRSHP: WASHINGTON  
MERICAN: BILLABETTE

PICT NUMBER

INITIAL TREATMENT (1981)	400#N RCNE	200#N R+K	0#N M+K	200#N	0#N M+K	400#N M+K
1	2	3	4	5	6	

GENSUBATICAL CHARACTERISTICS:

AT TIME OF TREATMENT (1981)	STANC AGE = 64	140	160	210	260	220	280
LIVE TREES PER ACRES		140	160	210	260	220	280
LIVE BASAL AREA (SQ-FT/A)		124.1	136.2	164.6	128.9	131.7	157.6
LIVE TOTAL VOLUME (CU-FT/A)		348E	410.3	463.8	345.6	357.3	427.4
LIVE TOTAL PERCENTAGE (%)		133.2	144.2	165.5	124.8	124.2	157.9
RELATIVE DENSITY INDEX		34.2	38.5	47.5	41.7	40.6	49.4
MEAN DIAMETER (IN)		12.2	12.5	12.0	9.5	10.5	10.4
SITE HEIGHT (FT)		76.1	88.9	80.3	76.6	71.8	83.0
SPECIES COMPOSITION (% CP BA)							
DOUGLAS-FIR		100.0	91.4	69.4	89.4	83.9	100.0
PCNDEHOSA PINE		0.0	8.6	30.6	10.4	16.1	0.0

2 YEARS AFTER TREATMENT (1983)

LIVE TREES PER ACRES	140	160	210	250	220	280
LIVE BASAL AREA (SQ-PT/A)	131.4	143.9	172.2	132.9	137.7	168.4
LIVE TOTAL VOLUME (CU-PT/A)	133E	147.7	177.1	152.2	153.3	189
RELATIVE DENSITY INDEX	36.3	40.8	49.2	42.3	42.1	52.5
MEAN DIAMETER (IN)	13.1	12.8	12.3	9.9	10.7	10.5
DEAD TREES PER ACRES	0.0	0.0	0.0	2.8	0.0	0.0
DEAD BASAL AREA (SQ-PT/A)	0.0	0.0	0.0	2.8	0.0	0.0

4 YEARS AFTER TREATMENT (1985)

LIVE TREES PER ACRES	140	150	210	250	220	280
LIVE BASAL AREA (SQ-PT/A)	140.5	147.7	181.5	142.9	146.1	181.8
LIVE TOTAL VOLUME (CU-PT/A)	415.6	471.7	546.2	407.3	423.0	526.5
RELATIVE DENSITY INDEX	38.4	40.2	51.2	44.7	44.0	55.0
MEAN DIAMETER (IN)	13.5	13.4	14.6	10.2	11.0	10.9
SITE HEIGHT (FT)	84.4	94.2	85.1	81.3	76.3	89.3
AVERAGE CROWN LENGTH (FT)	43.5	36.1	34.4	26.3	29.3	31.2
AVERAGE TREES PER ACRES	43.5	36.1	34.4	26.3	29.3	31.2
DEAD TREES PER ACRES	0.0	3.7	0.0	2.6	0.0	0.0
DEAD BASAL AREA (SQ-PT/A)	0.0	3.7	0.0	2.6	0.0	0.0

6 YEARS AFTER TREATMENT (1987)

LIVE TREES PER ACRES	140	150	200	250	200	280
LIVE BASAL AREA (SQ-PT/A)	145.7	151.1	181.0	148.2	138.0	190.5
LIVE TOTAL VOLUME (CU-PT/A)	439.9	490.5	552.0	431.9	413.9	562.4
RELATIVE DENSITY INDEX	39.2	41.0	50.4	46.4	41.3	57.2
MEAN DIAMETER (IN)	13.3	13.6	12.8	10.4	11.3	11.2
SITE HEIGHT (FT)	86.6	95.6	84.7	83.1	78.2	91.2
AVERAGE CROWN LENGTH (FT)	43.5	36.1	34.4	26.3	29.3	31.2
DEAD TREES PER ACRES	0.0	3.7	5.8	2.8	1.3	0.0
DEAD BASAL AREA (SQ-PT/A)	0.0	3.7	5.8	2.8	1.3	0.0

8 YEARS AFTER TREATMENT (1989)

LIVE TREES PER ACRES	140	140	130	230	200	280
LIVE BASAL AREA (SQ-PT/A)	150.5	148.2	138.0	144.7	144.3	197.8
LIVE TOTAL VOLUME (CU-PT/A)	461.7	492.8	430.9	427.9	433.9	591.3
RELATIVE DENSITY INDEX	40.3	39.7	37.0	44.7	42.5	58.4
MEAN DIAMETER (IN)	14.1	13.9	14.0	10.7	11.3	12.4
SITE HEIGHT (FT)	88.5	97.4	88.5	84.4	79.3	92.4
AVERAGE CROWN LENGTH (FT)	45.8	43.2	43.0	32.6	32.0	32.8
AVERAGE TREES PER ACRES	45.8	43.2	43.0	32.6	32.0	32.8
DEAD TREES PER ACRES	0.0	1.2	5.4	13.9	1.3	0.0
DEAD BASAL AREA (SQ-PT/A)	0.0	1.2	5.4	13.9	1.3	0.0
DEAD TOTAL VOLUME (CU-PT/A)	0.0	1.2	5.4	13.9	1.3	0.0



PLCT SUMMARY REPORT

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

1	2	3	4	5	6
PLOT NUMBER					
400#N	0#1	200#N	3#N	400#N	200#N
NCNE	NCNE	N+K	N+K	200#N	200#N
MENSURATIONAL CHARACTERISTICS:					
AT TIME OF TREATMENT (1981)					
STAND AGE = 39					
LIVE TREES PER ACRE	130	100	110	120	100
LIVE BASAL AREA (SQ.FT/A)	131.7	129.4	158.9	129.3	109.1
LIVE TOTAL VOLUME (CU.FT/A)	3773	4204	5585	3950	3376
CROWN COMPETITION FACTOR	133	123	147	130	109
RELATIVE DENSITY INDEX	35.7	33.0	39.4	34.0	29.0
MEAN DIAMETER (IN)	13.6	13.4	16.3	14.1	14.1
SITE HEIGHT (FEET)	79.2	92.9	101.1	90.3	90.0
SPECIES COMPOSITION (% CF BA)					
DOUGLAS-FIR	96.3	100.0	100.0	100.0	100.0
PONDEROSA PINE	3.7	0.0	0.0	0.0	0.0
2 YEARS AFTER TREATMENT (1983)					
LIVE TREES PER ACRE	130	100	110	120	100
LIVE BASAL AREA (SQ.FT/A)	140.8	138.2	169.2	137.2	116.9
CROWN COMPETITION FACTOR	139	129	134	135	115
RELATIVE DENSITY INDEX	37.5	34.6	41.1	36.0	30.6
MEAN DIAMETER (IN)	14.1	15.9	16.8	14.5	14.6
DEAD TREES PER ACRE	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
4 YEARS AFTER TREATMENT (1985)					
LIVE TREES PER ACRE	130	100	110	120	100
LIVE BASAL AREA (SQ.FT/A)	152.0	146.9	180.3	146.0	125.8
LIVE TOTAL VOLUME (CU.FT/A)	4542	4980	6585	4622	4108
CROWN COMPETITION FACTOR	147	133	161	141	121
RELATIVE DENSITY INDEX	39.7	36.3	43.3	37.8	32.3
MEAN DIAMETER (IN)	14.6	16.4	17.3	14.9	15.2
SITE HEIGHT (FEET)	34.3	58.0	106.4	54.4	50.2
AVERAGE CROWN RATIO (%)	47	50	40	51	34
AVERAGE CROWN LENGTH (FT)	38.3	46.5	40.3	41.5	47.0
DEAD TREES PER ACRE	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
DEAD TOTAL VOLUME (CU.FT/A)	0.0	0.0	0.0	0.0	0.0
6 YEARS AFTER TREATMENT (1987)					
LIVE TREES PER ACRE	130	100	110	120	100
LIVE BASAL AREA (SQ.FT/A)	158.4	153.4	187.2	152.3	130.1
LIVE TOTAL VOLUME (CU.FT/A)	4798	5282	6945	4920	4323
CROWN COMPETITION FACTOR	151	139	165	146	124
RELATIVE DENSITY INDEX	41.0	37.5	44.3	37.0	33.1
MEAN DIAMETER (IN)	14.9	16.8	17.7	15.3	15.4
SITE HEIGHT (FEET)	87.3	99.7	87.4	96.5	98.2
DEAD TREES PER ACRE	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
DEAD TOTAL VOLUME (CU.FT/A)	0.0	0.0	0.0	0.0	0.0
8 YEARS AFTER TREATMENT (1989)					
LIVE TREES PER ACRE	130	100	110	120	100
LIVE BASAL AREA (SQ.FT/A)	167.2	160.0	193.8	159.5	161.4
LIVE TOTAL VOLUME (CU.FT/A)	5128	5396	7259	5236	4593
CROWN COMPETITION FACTOR	157	144	170	151	128
RELATIVE DENSITY INDEX	42.7	38.7	45.7	40.4	34.3
MEAN DIAMETER (IN)	15.4	17.1	18.0	15.6	15.0
SITE HEIGHT (FEET)	88.4	101.5	110.1	98.5	99.7
AVERAGE CROWN RATIO (%)	47	50	43	51	33
AVERAGE CROWN LENGTH (FT)	39.9	48.2	48.0	45.5	48.3
DEAD TREES PER ACRE	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
DEAD TOTAL VOLUME (CU.FT/A)	0.0	0.0	0.0	0.0	0.0

## PLCT SUMMARY REPORT

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

PLGT 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
<b>MENSURATIONAL CHARACTERISTICS:</b>						
<b>AT TIME OF TREATMENT (1981)</b>						
	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	114.3
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)	12.2	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	33.0	76.7	33.2
GRAND FIR	5.5	0.0	0.0	0.0	0.9	6.8
LODGEPOLE PINE	0.0	5.8	0.0	0.0	0.0	0.0
PACIFIC PINE	14.4	4.5	6.8	17.0	22.4	0.0
<b>2 YEARS AFTER TREATMENT (1983)</b>						
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	0.0	0.0	0.0
DEAD BASAL AREA (SQ.FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
<b>4 YEARS AFTER TREATMENT (1985)</b>						
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	4421
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	15.1	16.5
SITE HEIGHT (FEET)	97.7	92.5	93.0	106.6	102.7	95.1
AVERAGE CROWN RATIO (%)	53	50	49	42	48	30
AVERAGE CROWN LENGTH (FT)	42.9	39.0	39.5	38.3	41.1	42.6
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
<b>6 YEARS AFTER TREATMENT (1987)</b>						
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	124
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	108.3	105.1	101.3
DEAD TREES PER ACRE	0.0	0.0	0.0	0.5	0.5	0.0
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	0.0	0.0	2.0	1.4	0.0
<b>8 YEARS AFTER TREATMENT (1989)</b>						
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	130
RELATIVE DENSITY INDEX	45.9	43.4	40.7	40.6	40.1	36.0
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	0.0	0.0	0.5	0.5	0.0
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	0.0	0.0	2.0	1.4	0.0

PLCT SUMMARY REPORT

INSTALLATION 231 ELHO  
REGION: HONTANA  
LEGAL DESCRIPTION: T24W R21W SECTION 30  
CNEBSHIP: PLATBAD (BIAA)  
MERIDIAN: PRINCIPAL

PLOT NUMBER  
INITIAL TREATMENT (1981)  
SECOND TREATMENT (1987)  
HENSUBATIONAL CHARACTERISTICS:  
AT TIME OF TREATMENT (1981)  
STANL AGE = 61

	1	2	3	4	5	6
0#N	NONE	2C0#N	40C#N	200#N	0#N	400#N
		NONE	HC#N	NONE	NONE	NONE
LIVE TREES PER ACRE	19C	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)	281E	1970	2765	1649	200C	2280
LIVE CROWN COMPETITION FACTOR	130	108	133	83	100	107
RELATIVE DENSITY INDEX	36.7	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
MEAN HEIGHT (FEET)	68.5	61.4	66.8	63.8	62.8	69.5
SPECIES COMPOSITION (% CP 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	0.0
PONDEROSA FINE	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-PT/A)	125.9	100.8	126.4	78.7	97.0	102.9
LIVE TOTAL VOLUME (CU-PT/A)	373.9	1116	1400	2488	2910	3113
RELATIVE DENSITY INDEX	11.0	10.1	10.8	10.5	10.5	11.2
MEAN DIAMETER (IN)	11.0	10.7	11.0	10.8	10.5	11.2
MEAN HEIGHT (FT)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TREES PER ACRE	0.0	0.0	0.0	0.0	0.0	0.0
DEAD BASAL AREA (SQ-PT/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-PT/A)	130.6	105.4	131.0	82.9	101.6	108.2
LIVE TOTAL VOLUME (CU-PT/A)	324.7	2337	3232	1999	2376	2734
RELATIVE DENSITY INDEX	14.1	12.0	14.4	9.9	11.4	11.8
MEAN DIAMETER (IN)	39.0	32.7	39.6	25.8	30.9	31.9
MEAN HEIGHT (FT)	71.0	63.4	69.8	66.3	65.8	73.5
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	0.0	0.0	0.0
DEAD BASAL AREA (SQ-PT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU-PT/A)	0.0	0.0	0.0	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-PT/A)	137.6	111.3	137.0	87.5	105.2	114.2
LIVE TOTAL VOLUME (CU-PT/A)	348.1	2510	3442	2735	2452	2947
RELATIVE DENSITY INDEX	14.8	12.5	15.0	10.3	11.8	12.3
MEAN DIAMETER (IN)	40.3	34.1	40.9	26.3	31.0	33.2
MEAN HEIGHT (FT)	72.4	64.7	71.3	67.8	67.4	75.0
AVERAGE CROWN LENGTH (FT)	22.4	20.6	22.3	21.8	21.0	23.2
DEAD TREES PER ACRE	0.0	0.0	0.0	0.0	0.0	0.0
DEAD BASAL AREA (SQ-PT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU-PT/A)	0.0	0.0	0.0	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-PT/A)	134.0	115.6	131.9	91.5	109.3	117.0
LIVE TOTAL VOLUME (CU-PT/A)	345.0	2656	3362	2262	2628	3120
RELATIVE DENSITY INDEX	11.4	13.0	14.3	9.8	11.7	12.5
MEAN DIAMETER (IN)	39.7	35.1	39.3	27.1	32.7	33.4
MEAN HEIGHT (FT)	73.9	66.9	72.4	69.4	69.0	76.4
AVERAGE CROWN LENGTH (FT)	24.7	26.4	29.1	32.3	31.3	36.8
DEAD TREES PER ACRE	1.0	0.0	1.0	0.0	0.0	0.0
DEAD BASAL AREA (SQ-PT/A)	1.0	0.0	1.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU-PT/A)	1.0	0.0	1.0	0.0	0.0	0.0

PLOT SUMMARY REPORT

INSTALLATION 232 SURELY SLOPE  
REGION: MONTANA  
LEGAL DESCRIPTION: T23N R21W SECTION 12  
MEMBERSHIP: PLATHEAD (BIA)  
PLOT NUMBER  
PRINCIPAL

INITIAL TREATMENT (1981)  
SECND TREATMENT (1987)

	1	2	3	4	5	6
#N	400	200	200	400	200	0
N+K	200	0	0	0	0	0
#N	200	200	200	400	200	0
#N	0	0	0	0	0	0

MEASUREMENT CHARACTERISTICS:

AT TIME OF TREATMENT (1981)	STANC	AGE =	54
LIVE TREES PER ACRE	180	180	230
LIVE BASAL AREA (SQ. FT/A)	1133.5	1485.6	1523.0
LIVE TOTAL VOLUME (CU. FT/A)	277.5	425.7	409.4
BROWN COH DENSITY	1.2	1.5	1.6
RELATIVE DIAMETER (IN)	34.2	42.3	45.8
MEAN HEIGHT (FT)	10.8	12.3	11.0
SITE HEIGHT (FT)	68.4	81.5	74.1
SPECIES COMPOSITION (% OF BA)			
DODGLAS-PIR	89.5	86.3	83.3
WESTERN LARCH	0.0	13.7	0.0
PONDEROSA PINE	10.5	0.0	16.7

2 YEARS AFTER TREATMENT (1983)

LIVE TREES PER ACRE	180	180	230	180	200	210
LIVE BASAL AREA (SQ. FT/A)	1223.3	1648.2	1666.6	1489.9	1477.8	1524.4
BROWN COH DENSITY	1.3	1.6	1.7	1.4	1.6	1.6
RELATIVE DIAMETER (IN)	36.2	45.6	49.7	42.4	43.3	44.9
MEAN HEIGHT (IN)	11.1	12.9	11.5	12.3	11.6	11.5
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)	1266.6	1728.1	1749.9	1505.6	1530.9	1589.6
LIVE TOTAL VOLUME (CU. FT/A)	326.1	517.4	497.9	425.6	430.9	433.7
BROWN COH DENSITY	1.3	1.7	1.8	1.5	1.6	1.6
RELATIVE DIAMETER (IN)	37.4	47.3	50.7	42.1	44.9	46.2
MEAN HEIGHT (IN)	11.4	13.2	11.8	12.7	11.9	11.8
SITE HEIGHT (IN)	71.4	83.5	79.5	84.4	78.1	79.4
AVERAGE CHROWN HEIGHT (%)	30.5	44.7	37.7	35.1	36.1	34.1
DEAD TREES PER ACRE	0.0	0.0	0.0	4.6	0.0	0.0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	13.2	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0.0	0.0	0.0	4.6	0.0	0.0

6 YEARS AFTER TREATMENT (1987)

LIVE TREES PER ACRE	180	180	230	170	200	210
LIVE BASAL AREA (SQ. FT/A)	1332.0	1822.4	1823.9	1578.8	1634.4	1675.0
LIVE TOTAL VOLUME (CU. FT/A)	352.0	561.4	535.9	459.8	464.6	475.1
BROWN COH DENSITY	1.4	1.8	1.9	1.5	1.7	1.7
RELATIVE DIAMETER (IN)	39.1	49.4	52.6	43.7	46.7	48.2
MEAN HEIGHT (IN)	11.7	13.6	12.1	13.0	12.7	12.1
SITE HEIGHT (IN)	73.0	90.5	81.3	87.1	80.3	81.6
DEAD TREES PER ACRE	0.0	0.0	0.0	4.6	0.0	0.0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	13.2	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0.0	0.0	0.0	4.6	0.0	0.0

8 YEARS AFTER TREATMENT (1989)

LIVE TREES PER ACRE	180	180	230	170	200	210
LIVE BASAL AREA (SQ. FT/A)	1402.5	1914.1	1923.1	1657.0	1709.9	1748.8
LIVE TOTAL VOLUME (CU. FT/A)	379.2	604.1	577.3	489.4	497.7	506.5
BROWN COH DENSITY	1.4	1.8	1.9	1.5	1.7	1.7
RELATIVE DIAMETER (IN)	40.6	51.3	54.6	45.2	48.3	49.3
MEAN HEIGHT (IN)	12.8	14.7	13.4	13.3	12.3	12.3
SITE HEIGHT (IN)	75.4	92.5	83.4	88.4	82.4	83.8
AVERAGE CHROWN HEIGHT (%)	31.4	43.2	37.3	38.1	35.1	33.4
DEAD TREES PER ACRE	0.0	0.0	0.0	4.6	0.0	0.0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	13.2	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0.0	0.0	0.0	4.6	0.0	0.0



## PLCT SUMMARY REPORT

INSTALLATION 234 ROMAN  
 REGION: MONTANA  
 LEGAL DESCRIPTION: T20N R19W SECTION 5  
 OWNERSHIP: PLATHEAD (BIA)  
 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	NCNE	NONE	NCNE	NCNE	NONE
<b>MENSURATIONAL CHARACTERISTICS:</b>						
<b>AT TIME OF TREATMENT (1981)</b>						
	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	148	145	107	131	153	144
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 (% OF 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
<b>2 YEARS AFTER TREATMENT (1983)</b>						
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	153	153	113	137	161	151
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	0.0	0.0	0.0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
<b>4 YEARS AFTER TREATMENT (1985)</b>						
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	162	157	117	141	166	156
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	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
<b>6 YEARS AFTER TREATMENT (1987)</b>						
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	168	163	114	146	172	162
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	0.0	10	0.0	0.0	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	0.0	14.6	0.0	0.0	0.0
<b>8 YEARS AFTER TREATMENT (1989)</b>						
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	172	166	.	.	.	.
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	0.0	.	.	.	.
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	.	.	.	.
DEAD TOTAL VOLUME (CU. FT/A)	0.0	0.0	.	.	.	.

PLCT SUMMARY REPORT

INSTALLATION 235 RISH CREEK  
REGION: WONTANA  
LEGAL DESCRIPTION: T14W R24W SECTICE 5  
MEMBERSHIP: CHAIRMAN: PRINCIPAL  
PLOT NUMBER

INITIAL TREATMENT (1981)  
SECOND TREATMENT (1987)

	1	2	3	4	5	6
O&N	200#N	200#N	400#N	O&N	200#N	400#N
NCRF	200#N	NONE	NONE	N+K	NONE	200#N

MEASUREMENT CHARACTERISTICS:

AT TIME OF TREATMENT (1981)

STAND AGE = 74

LIVE TREES PER ACRE	PER AREA (SQ. FT/A)	SO. FACTOR	RELATIVE DENSITY INDEX	MEAN DIAMETER (IN)	SITE HEIGHT POSITION (% CF BA)	DOUGLAS-FIR	WESTERN LARCH	LCODGERPOLE PINE	PCNDEBROSA PINE
220	270	280	390	390	390	390	390	390	410
90.0	119.8	128.0	116.3	122.1	122.1	122.1	122.1	122.1	132.2
11.0	129	132	131	131	131	131	131	131	164
30.6	39.9	38.4	42.8	44.4	44.4	44.4	44.4	44.4	47.7
8.7	9.0	8.6	7.4	7.4	7.4	7.4	7.4	7.4	7.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.3	37.2	13.5	29.8	16.7	16.7	16.7	16.7	16.7	7.2
97.7	62.8	86.5	68.6	83.3	83.3	83.3	83.3	83.3	87.9
0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.3	37.2	13.5	29.8	16.7	16.7	16.7	16.7	16.7	7.2

2 YEARS AFTER TREATMENT (1983)

LIVE TREES PER ACRE	220	270	280	390	390	390	410
LIVE BASAL AREA (SQ. FT/A)	90.0	119.8	128.0	116.3	122.1	122.1	132.2
CHOWN COMPETITION FACTOR	11.0	129	132	131	131	131	164
RELATIVE DENSITY INDEX	30.6	39.9	38.4	42.8	44.4	44.4	47.7
MEAN DIAMETER (IN)	8.7	9.0	8.6	7.4	7.4	7.4	7.7
DEAD TREES PER ACRE	0.0	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	0.0

4 YEARS AFTER TREATMENT (1985)

LIVE TREES PER ACRE	220	260	280	360	370	370	360
LIVE BASAL AREA (SQ. FT/A)	93.4	121.9	119.1	116.8	125.3	125.3	128.8
CHOWN COMPETITION FACTOR	22.6	299.8	270.3	271.4	295.1	295.1	301.2
RELATIVE DENSITY INDEX	31.5	40.0	40.1	42.7	44.8	44.8	45.5
MEAN DIAMETER (IN)	8.8	9.0	8.8	7.7	7.7	7.7	8.1
AVERAGE HEIGHT (FT)	67.4	70.3	65.4	66.4	62.3	62.3	64.9
DEAD TREES PER ACRE	24.0	25.8	24.4	19.3	18.2	18.2	17.5
DEAD BASAL AREA (SQ. FT/A)	0.0	3.8	0.0	4.3	3.8	3.8	9.5
DEAD TOTAL VOLUME (CU. FT/A)	0.0	80	0.0	82	3.8	3.8	203

6 YEARS AFTER TREATMENT (1987)

LIVE TREES PER ACRE	220	260	280	360	360	360	350
LIVE BASAL AREA (SQ. FT/A)	96.9	127.1	124.8	121.8	129.8	129.8	132.7
CHOWN COMPETITION FACTOR	23.5	319.4	287.5	289.5	315.3	315.3	317.9
RELATIVE DENSITY INDEX	32.0	41.3	41.4	43.4	45.7	45.7	46.0
MEAN DIAMETER (IN)	9.0	9.5	9.4	7.9	7.9	7.9	8.3
AVERAGE HEIGHT (FT)	68.5	71.6	66.4	67.9	64.4	64.4	66.0
DEAD TREES PER ACRE	0.0	1.0	0.0	4.3	3.0	3.0	1.1
DEAD BASAL AREA (SQ. FT/A)	0.0	3.8	0.0	8.2	3.0	3.0	23.8
DEAD TOTAL VOLUME (CU. FT/A)	0.0	80	0.0	82	3.0	3.0	11.6

8 YEARS AFTER TREATMENT (1989)

LIVE TREES PER ACRE	210	260	250	360	360	360	340
LIVE BASAL AREA (SQ. FT/A)	100.2	133.1	123.6	128.4	135.6	135.6	137.0
CHOWN COMPETITION FACTOR	24.7	341.2	291.2	311.2	335.8	335.8	329.0
RELATIVE DENSITY INDEX	32.3	42.8	40.1	45.1	48.0	48.0	46.3
MEAN DIAMETER (IN)	9.1	9.7	9.5	8.4	8.4	8.4	8.5
AVERAGE HEIGHT (FT)	70.4	73.2	67.9	69.4	65.3	65.3	68.0
DEAD TREES PER ACRE	29.1	27.1	30.0	22.0	22.0	22.0	22.7
DEAD BASAL AREA (SQ. FT/A)	1.1	3.8	7.8	4.8	3.9	3.9	16.8
DEAD TOTAL VOLUME (CU. FT/A)	1.9	80	168	82	3.9	3.9	134.8

## PLCT SUMMARY REPORT

INSTALLATION 236 DEER CREEK  
 REGION: MCNTANA CWNEESHIP: 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
<b>MENSURATIONAL CHARACTERISTICS:</b>						
<b>AT TIME OF TREATMENT (1981)</b>						
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
<b>2 YEARS AFTER TREATMENT (1983)</b>						
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
<b>4 YEARS AFTER TREATMENT (1985)</b>						
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	0.0	0.0	0.0
<b>6 YEARS AFTER TREATMENT (1987)</b>						
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	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)	0.0	0.0	0.0	123	0.0	0.0
<b>8 YEARS AFTER TREATMENT (1989)</b>						
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)	0.0	221	17	430	26	46



## PLCT SUMMARY REPORT

INSTALLATION 237 HOLLLET PARK  
 REGION: MONTANA OWNERSHIP: 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
<b>MENSURATIONAL CHARACTERISTICS:</b>						
<b>AT TIME OF TREATMENT (1981)</b>						
	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)	4954	4002	5049	4393	3055	2876
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
PACIFIC LARCH	13.9	2.0	0.0	0.0	0.0	0.0
<b>2 YEARS AFTER TREATMENT (1983)</b>						
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
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
<b>4 YEARS AFTER TREATMENT (1985)</b>						
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)	5244	4442	5560	4809	3376	3274
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
<b>6 YEARS AFTER TREATMENT (1987)</b>						
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)	5465	4644	5833	5058	3539	3321
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
<b>8 YEARS AFTER TREATMENT (1989)</b>						
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)	5647	4834	6059	5289	3610	3477
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	0	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

INSTALLATION 238 BULLAC BILL CREEK MEMBERSHIP: CHARIION  
REGION: MONTANA CENSUS: 34 BENEFICIAL: PRINCIPAL  
LEGAL DESCRIPTION: T22N R26W SECTION 34

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)	NCRE	N+K	B+K	BONE	200#N	N+K

MENSURATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1981) STANC AGE = 32

AT TIME OF TREATMENT (1981)	1	2	3	4	5	6
LIVE TREES PER ACRES	26	23	16	21	18	24
LIVE BASAL AREA (SQ-FT/A)	56	55	44	39	31	60
LIVE TOTAL VOLUME (CU-FT/A)	940	860	767	579	403	895
LIVE TOTAL COMPETITION FACTOR	2.7	2.1	1.6	1.5	1.3	2.3
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 (% CP BA)						
DOUGLAS-FIR	68.4	78.5	94.8	82.2	93.5	86.0
WESTERN LARCH	8.7	19.3	5.2	3.4	3.8	1.6
POSSIBLE PINE	23.0	2.0	0.0	11.0	2.0	12.0
PONDEROSA PINE	0.0	0.0	0.0	0.0	0.0	0.0

2 YEARS AFTER TREATMENT (1983)

LIVE TREES PER ACRES	26	23	16	21	18	24
LIVE BASAL AREA (SQ-FT/A)	63	66	53	47	39	69
LIVE TOTAL VOLUME (CU-FT/A)	1233	1266	1114	862	633	1171
LIVE TOTAL COMPETITION FACTOR	2.6	2.7	2.0	1.6	1.7	2.7
RELATIVE DENSITY INDEX	24.7	24.7	19.0	18.8	15.3	25.7
MEAN DIAMETER (IN)	6.7	7.3	7.8	6.4	6.0	7.3
SITE HEIGHT (FEET)	48.0	51.7	49.5	43.2	36.9	43.7
AVERAGE CROWN LENGTH (FT)	27.1	30.8	35.4	25.7	25.3	28.2
DEAD TREES PER ACRES	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 ACRES	26	23	16	21	18	24
LIVE BASAL AREA (SQ-FT/A)	68	74	60	53	43	75
LIVE TOTAL VOLUME (CU-FT/A)	1283	1266	1114	862	633	1171
LIVE TOTAL COMPETITION FACTOR	2.6	2.7	2.0	1.6	1.7	2.7
RELATIVE DENSITY INDEX	26.9	27.7	20.3	18.9	16.6	27.3
MEAN DIAMETER (IN)	4.8	5.1	4.9	4.3	3.6	4.3
SITE HEIGHT (FEET)	48.6	51.7	49.5	43.2	36.9	43.7
AVERAGE CROWN LENGTH (FT)	27.1	30.8	35.4	25.7	25.3	28.2
DEAD TREES PER ACRES	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

6 YEARS AFTER TREATMENT (1987)

LIVE TREES PER ACRES	26	23	16	21	18	24
LIVE BASAL AREA (SQ-FT/A)	75	82	67	60	49	82
LIVE TOTAL VOLUME (CU-FT/A)	1407	1471	1297	1074	705	1341
LIVE TOTAL COMPETITION FACTOR	2.7	2.9	2.2	1.7	1.6	2.9
RELATIVE DENSITY INDEX	50.3	48.1	38.8	35.6	31.5	45.7
MEAN DIAMETER (IN)	5.0	5.4	5.1	4.5	3.8	4.5
SITE HEIGHT (FEET)	50.3	54.3	51.8	45.0	38.5	45.7
AVERAGE CROWN LENGTH (FT)	27.1	30.8	35.4	25.7	25.3	28.2
DEAD TREES PER ACRES	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

8 YEARS AFTER TREATMENT (1989)

LIVE TREES PER ACRES	26	23	16	21	18	24
LIVE BASAL AREA (SQ-FT/A)	82	91	75	67	55	92
LIVE TOTAL VOLUME (CU-FT/A)	1611	1699	1510	1181	830	1573
LIVE TOTAL COMPETITION FACTOR	2.9	3.1	2.4	2.4	2.0	3.1
RELATIVE DENSITY INDEX	53.0	56.3	49.3	47.1	40.8	48.4
MEAN DIAMETER (IN)	5.3	5.6	5.4	4.8	4.0	4.8
SITE HEIGHT (FEET)	53.0	56.3	54.6	48.6	40.8	48.4
AVERAGE CROWN LENGTH (FT)	26.6	29.2	34.6	27.6	24.8	27.0
DEAD TREES PER ACRES	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

PLCT SUMMARY REPORT

INSTALLATION 219 HABA #2  
REGION: NORTH EAST OREGON  
LEGAL DESCRIPTION: T33N R4W  
PLOT NUMBER

MEMBERSHIP: PCTIATCH BOISE  
SECTION 10  
BRIDIAN: BOISE

INITIAL TREATMENT (1981)  
SECOND TREATMENT (1987)  
MENSURATIONAL CHARACTERISTICS:

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

AT TIME OF TREATMENT (1981)

STANC AGE = 87

LIVE TREES PER ACRE	PER ACRE	PER ACRE	PER ACRE	PER ACRE	PER ACRE	PER ACRE
LIVE BASAL AREA (SQ. FT./A)	120	127	170	140	150	190
LIVE TOTAL VOLUME (CU. FT./A)	139.23	151.44	228.00	208.4	219.88	183.92
CHROM COMPELTICH FACTOR	464.5	448.4	809.8	722.70	709.97	565.2
RELATIVE DENSITY INDEX	12.3	13.5	57.6	17.9	22.61	17.5
MEAN DIAMETER (IN)	36.5	39.3	57.5	51.3	57.6	50.4
MEAN HEIGHT (FT)	14.6	14.8	15.7	16.5	14.6	13.4
SITE HEIGHT (FT)	102.0	90.0	97.5	102.9	96.8	84.9
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	93.3	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
CHROM COMPELTICH 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
MEAN HEIGHT (FT)	0.0	1.8	0.0	0.0	0.0	2.0
DEAD TREES PER ACRE	0.0	0.0	0.0	0.0	0.0	0.0
DEAD BASAL AREA (SQ. FT./A)	0.0	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	163.5	220.0	225.1	230.3	195.8
CHROM COMPELTICH FACTOR	550.5	505.1	796.9	815.1	765.3	617.9
RELATIVE DENSITY INDEX	13.6	14.3	19.4	17.2	15.3	14.9
MEAN DIAMETER (IN)	40.2	41.1	54.4	54.3	58.3	51.7
MEAN HEIGHT (FT)	107.5	94.8	101.3	106.8	102.5	87.4
SITE HEIGHT (FT)	42.5	36.4	33.4	34.0	26.3	28.0
AVERAGE CHROM LENGTH (FT)	0.0	1.8	0.0	0.0	0.0	0.0
DEAD TREES PER ACRE	0.0	0.0	0.0	0.0	0.0	0.0
DEAD BASAL AREA (SQ. FT./A)	0.0	1.4	25.7	0.0	3.3	6.3
DEAD TOTAL VOLUME (CU. FT./A)	0.0	0.0	103.6	0.0	3.9	20.3

6 YEARS AFTER TREATMENT (1987)

LIVE TREES PER ACRE	120	120	130	140	180	170
LIVE BASAL AREA (SQ. FT./A)	164.5	167.5	195.0	230.4	234.1	202.8
CHROM COMPELTICH FACTOR	585.7	525.5	687.3	844.0	792.7	650.8
RELATIVE DENSITY INDEX	14.1	12.0	17.9	19.3	15.6	18.7
MEAN DIAMETER (IN)	41.4	42.0	47.9	55.2	59.2	52.8
MEAN HEIGHT (FT)	115.9	116.0	116.6	117.4	115.4	114.8
SITE HEIGHT (FT)	109.1	95.1	100.3	108.0	104.4	88.6
DEAD TREES PER ACRE	0.0	1.8	0.0	0.0	0.0	0.0
DEAD BASAL AREA (SQ. FT./A)	0.0	1.4	56.1	0.0	3.9	6.3
DEAD TOTAL VOLUME (CU. FT./A)	0.0	0.0	240.1	0.0	10.3	20.3

8 YEARS AFTER TREATMENT (1989)

LIVE TREES PER ACRE	113	113	130	140	180	170
LIVE BASAL AREA (SQ. FT./A)	168.3	171.5	201.5	234.2	238.0	208.8
CHROM COMPELTICH FACTOR	612.0	551.2	725.1	881.2	790.0	683.3
RELATIVE DENSITY INDEX	14.4	14.7	17.7	19.6	16.8	18.8
MEAN DIAMETER (IN)	41.4	42.0	49.1	56.1	56.2	53.9
MEAN HEIGHT (FT)	116.4	116.7	116.9	117.5	116.3	115.0
SITE HEIGHT (FT)	111.5	97.5	102.4	111.3	106.4	90.4
AVERAGE CHROM LENGTH (FT)	47.9	46.8	40.8	39.0	38.4	38.2
DEAD TREES PER ACRE	2.5	3.7	4.0	0.0	0.0	0.0
DEAD BASAL AREA (SQ. FT./A)	2.5	3.7	56.1	0.0	1.3	6.3
DEAD TOTAL VOLUME (CU. FT./A)	2.5	0.0	240.1	0.0	13.8	20.3

## PLCT SUMMARY REPORT

INSTALLATION 240 QUARTZ CREEK #1  
 REGION: NORTHERN IDAHO OWNERSHIP: PCTIATCH  
 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	NCNE	N+K	NCNE
<b>MENSURATIONAL CHARACTERISTICS:</b>						
<b>AT TIME OF TREATMENT (1981)</b>						
	STAND AGE = 41					
LIVE TREES PER ACRE	360	410	350	280	310	360
LIVE BASAL AREA (SQ. FT/A)	122.5	179.3	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	160	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 (% OF 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 REDCEDAR	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
<b>2 YEARS AFTER TREATMENT (1983)</b>						
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	0.0	1.0	0.0	0.0	0.0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	3.5	0.0	0.0	0.0
<b>4 YEARS AFTER TREATMENT (1985)</b>						
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	1.0	0.0	1.0	0.0	0.0	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
<b>6 YEARS AFTER TREATMENT (1987)</b>						
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)	4096	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	1.0	0.0	1.0	0.0	0.0	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
<b>8 YEARS AFTER TREATMENT (1989)</b>						
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	6900	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	2.0	0.0	3.0	0.0	0.0	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

LOT SUMMARY REPORT

INSTALLATION 241 WOODY HTN  
 REGION: CENTRAL WASHINGTON  
 LEGAL DESCRIPTION: T33N E24E SECTION 9  
 MEMBERSHIP: WASHINGTON DISTRICT  
 BRIDIAN: WILLABETTE

PLOT NUMBER	MEMBERSHIP: WASHINGTON DISTRICT BRIDIAN: WILLABETTE					
	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	400#N	0#N	0#N	200#N	400#N

MEMORANDUM CHARACTERISTICS:

AT TIME OF TREATMENT (1981)	STAND AGE = 72
LIVE TREES PER ACRE	360
LIVE BASAL AREA (SQ. FT./A)	1300.7
LIVE TOTAL VOLUME (CU. FT./A)	2907.1
CROWN COMPETITION INDEX	15.7
RELATIVE DENSITY INDEX	45.7
MEAN DIAMETER (IN)	8.1
SITE HEIGHT (FEET)	60.6
SPECIES COMPOSITION (% CP BA)	
DOUGLAS-SPRUE	76.6
WESTERN LARCH	0.0
LCDGEPOLE PINE	0.0
PCNDEBOSA PINE	23.4

2 YEARS AFTER TREATMENT (1983)

LIVE TREES PER ACRE	350
LIVE BASAL AREA (SQ. FT./A)	1380.4
LIVE TOTAL VOLUME (CU. FT./A)	1620.4
CROWN COMPETITION INDEX	47.6
RELATIVE DENSITY INDEX	8.1
MEAN DIAMETER (IN)	7.0
SITE HEIGHT (FEET)	4.1
SPECIES COMPOSITION (% CP BA)	
DOUGLAS-SPRUE	0.0
WESTERN LARCH	0.0
LCDGEPOLE PINE	0.0
PCNDEBOSA PINE	0.0

4 YEARS AFTER TREATMENT (1985)

LIVE TREES PER ACRE	340
LIVE BASAL AREA (SQ. FT./A)	1460.5
LIVE TOTAL VOLUME (CU. FT./A)	1650.5
CROWN COMPETITION INDEX	49.1
RELATIVE DENSITY INDEX	8.9
MEAN DIAMETER (IN)	6.9
SITE HEIGHT (FEET)	4.4
SPECIES COMPOSITION (% CP BA)	
DOUGLAS-SPRUE	24.4
WESTERN LARCH	0.0
LCDGEPOLE PINE	0.0
PCNDEBOSA PINE	2.1

6 YEARS AFTER TREATMENT (1987)

LIVE TREES PER ACRE	320
LIVE BASAL AREA (SQ. FT./A)	1480.4
LIVE TOTAL VOLUME (CU. FT./A)	1770.1
CROWN COMPETITION INDEX	48.1
RELATIVE DENSITY INDEX	9.5
MEAN DIAMETER (IN)	6.8
SITE HEIGHT (FEET)	4.0
SPECIES COMPOSITION (% CP BA)	
DOUGLAS-SPRUE	14.4
WESTERN LARCH	0.0
LCDGEPOLE PINE	0.0
PCNDEBOSA PINE	3.3

8 YEARS AFTER TREATMENT (1989)

LIVE TREES PER ACRE	300
LIVE BASAL AREA (SQ. FT./A)	1440.4
LIVE TOTAL VOLUME (CU. FT./A)	1560.4
CROWN COMPETITION INDEX	47.2
RELATIVE DENSITY INDEX	9.4
MEAN DIAMETER (IN)	7.1
SITE HEIGHT (FEET)	4.7
SPECIES COMPOSITION (% CP BA)	
DOUGLAS-SPRUE	29.7
WESTERN LARCH	0.0
LCDGEPOLE PINE	0.0
PCNDEBOSA PINE	2.5

PLCT SUMMARY REPORT

INSTALLATION 242 N.F. NINEMILE CREEK  
REGION: CENTRAL WASHINGTON MEMBERSHIP: WASHINGTON DNR  
LEGAL DESCRIPTION: T39N R24E S21CN 13 MERICANS WILLABETTE

PLOT NUMBER

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

MENSURATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1981) STANC AGE = 87

LIVE TREES PER ACRE	476	400	500	300	530	350
LIVE BASAL AREA (SQ.FT/A)	125.3	117.9	130.6	122.2	170.0	156.7
LIVE TOTAL VOLUME (CU.FT/A)	254.5	292.0	332.2	294.2	414.5	400.5
CROWN COMPETITION FACTOR	1.64	1.47	1.83	1.45	2.17	1.80
RELATIVE DENSITY INDEX	47.4	43.5	49.6	41.6	63.0	51.2
MEAN DIAMETER (IN)	7.0	7.3	6.9	8.6	7.8	8.9
SITE HEIGHT (FEET)	68.2	67.6	71.9	70.0	69.1	76.1
SPECIES COMPOSITION (% CF 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	466	400	500	300	530	350
LIVE BASAL AREA (SQ.FT/A)	132.3	124.2	138.0	131.5	164.8	162.1
LIVE TOTAL VOLUME (CU.FT/A)	177.1	155	177.1	158	225	172
CROWN COMPETITION FACTOR	49.1	45.2	51.7	43.9	65.4	54.9
RELATIVE DENSITY INDEX	7.3	7.5	7.1	9.0	8.0	8.7
MEAN DIAMETER (IN)	7.1	7.0	7.3	8.6	7.4	8.7
SITE HEIGHT (FEET)	70.3	70.2	75.2	73.4	71.4	79.3
AVERAGE CROWN LENGTH (FT)	18.5	20.0	19.6	24.8	21.5	22.2
DEAD TREES PER ACRE	4.1	0.0	0.0	0.0	0.0	0.0
DEAD BASAL AREA (SQ.FT/A)	1.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU.FT/A)	1.0	0.0	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1985)

LIVE TREES PER ACRE	466	400	500	300	530	390
LIVE BASAL AREA (SQ.FT/A)	142.4	130.3	145.6	140.3	193.2	167.5
LIVE TOTAL VOLUME (CU.FT/A)	345.5	331.3	379.1	351.2	467.8	443.9
CROWN COMPETITION FACTOR	18.3	16.1	17.9	16.7	23.3	19.6
RELATIVE DENSITY INDEX	51.5	46.5	53.5	46.1	67.6	56.3
MEAN DIAMETER (IN)	7.0	7.0	7.3	9.3	8.2	8.5
SITE HEIGHT (FEET)	70.3	70.2	75.2	73.6	71.4	79.3
AVERAGE CROWN LENGTH (FT)	18.5	20.0	19.6	24.8	21.5	22.2
DEAD TREES PER ACRE	4.1	0.0	0.0	0.0	0.0	0.0
DEAD BASAL AREA (SQ.FT/A)	1.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU.FT/A)	1.0	0.0	0.0	0.0	0.0	0.0

6 YEARS AFTER TREATMENT (1987)

LIVE TREES PER ACRE	456	400	500	300	530	380
LIVE BASAL AREA (SQ.FT/A)	144.6	133.5	149.7	145.6	197.4	169.8
LIVE TOTAL VOLUME (CU.FT/A)	355.5	344.4	396.2	371.8	485.5	457.9
CROWN COMPETITION FACTOR	16.4	16.4	18.2	17.3	23.8	19.7
RELATIVE DENSITY INDEX	52.4	47.7	55.0	47.4	68.3	56.4
MEAN DIAMETER (IN)	7.0	7.1	7.4	9.4	8.3	8.0
SITE HEIGHT (FEET)	72.1	71.3	76.6	75.6	72.8	81.0
AVERAGE CROWN LENGTH (FT)	18.5	20.0	19.6	24.8	21.5	22.2
DEAD TREES PER ACRE	7.2	0.0	0.0	0.0	0.0	1.0
DEAD BASAL AREA (SQ.FT/A)	15.4	0.0	0.0	0.0	0.0	1.0
DEAD TOTAL VOLUME (CU.FT/A)	15.4	0.0	0.0	0.0	0.0	1.0

8 YEARS AFTER TREATMENT (1989)

LIVE TREES PER ACRE	440	400	480	300	530	370
LIVE BASAL AREA (SQ.FT/A)	143.1	139.3	151.3	151.3	203.7	172.9
LIVE TOTAL VOLUME (CU.FT/A)	368.5	362.9	406.9	391.7	508.5	474.2
CROWN COMPETITION FACTOR	18.5	16.9	18.2	17.7	24.5	19.5
RELATIVE DENSITY INDEX	53.1	49.3	54.5	48.8	70.4	56.9
MEAN DIAMETER (IN)	7.0	7.2	7.7	9.6	8.4	8.0
SITE HEIGHT (FEET)	72.8	72.5	77.6	76.7	74.5	82.0
AVERAGE CROWN LENGTH (FT)	28.5	26.4	30.2	32.5	27.8	30.0
DEAD TREES PER ACRE	3.0	0.0	4.1	0.0	0.0	3.0
DEAD BASAL AREA (SQ.FT/A)	9.1	0.0	9.0	0.0	0.0	3.0
DEAD TOTAL VOLUME (CU.FT/A)	21.6	0.0	36.1	0.0	0.0	33.3

## PLCT SUMMARY REPORT

INSTALLATION 243 STARVATION LAKE  
 REGION: NORTHEAST WASHINGTON OWNERSHIP: 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
SECND TREATMENT (1987)	N+K	NCHP	200#N	N+K	N+K	NOHP
<b>MENSURATIONAL CHARACTERISTICS:</b>						
<b>AT TIME OF TREATMENT (1981)</b>						
	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
<b>2 YEARS AFTER TREATMENT (1983)</b>						
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	128	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	0.0	0.0	10	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	2.4	0.0
<b>4 YEARS AFTER TREATMENT (1985)</b>						
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	4633
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
<b>6 YEARS AFTER TREATMENT (1987)</b>						
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	3846	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
<b>8 YEARS AFTER TREATMENT (1989)</b>						
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

## PLOT SUMMARY REPORT

INSTALLATION 244 BIG LOCKOUT MTH #1  
 REGION: NORTHEAST OREGON OWNERSHIP: H (OREGON)  
 LEGAL DESCRIPTION: T11S R45E SECTION 19 NE T11N WILLAMETTE

PLOT NUMBER	1	2	3	4	5	6
INITIAL TREATMENT (1981)	200#N	400#N	0	400#N	200#N	0#N
SECOND TREATMENT (1987)	200#N	200#N	NONE	NONE	NONE	#+K
<b>MENSURATIONAL CHARACTERISTICS:</b>						
<b>AT TIME OF TREATMENT (1981)</b>						
	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 (% CF BA)						
DOUGLAS-FIR	100.0	100.0	100.0	100.0	100.0	100.0
<b>2 YEARS AFTER TREATMENT (1983)</b>						
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
<b>4 YEARS AFTER TREATMENT (1985)</b>						
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	9980	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
<b>6 YEARS AFTER TREATMENT (1987)</b>						
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
<b>8 YEARS AFTER TREATMENT (1989)</b>						
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)	19.3	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 HTN #2  
 REGION: NORTHEAST OREGON OWNERSHIP: BLM (OREGON)  
 LEGAL DESCRIPTION: T12S R44E SECTION 12 SURVEYOR: WILLABETTE

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	NO#E	NO#E	N+K
<b>MENSURATIONAL CHARACTERISTICS:</b>						
<b>AT TIME OF TREATMENT (1981)</b>						
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
<b>2 YEARS AFTER TREATMENT (1983)</b>						
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	C	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
<b>4 YEARS AFTER TREATMENT (1985)</b>						
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	C	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
<b>6 YEARS AFTER TREATMENT (1987)</b>						
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	180	71
<b>8 YEARS AFTER TREATMENT (1989)</b>						
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

**SECTION V**

**Summary Characteristics for All  
Ponderosa Pine Installations**

PLCT SUMMARY REPORT

INSTALLATION 291 SARDINE SPRINGS  
 REGION: NORTHEAST OREGON  
 LEGAL DESCRIPTION: 175 R42E SECTION 4  
 CNRPSHIP: FOREST SERVICE  
 MERIDIAN: WILLAMETTE

TREATMENT	PLCT NUMBER					
	1	2	3	4	5	6
200#N	0#N	400#N	400#N	0#A	200#N	

SITE AND SOIL CHARACTERISTICS:  
 SLOPE (X)  
 ASPECT

216	225	315	288	310	300
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MEMORATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1985)

STAND AGE =

LIVE TREES PER ACRE	LIVE BASAL AREA (SQ. FT./A)	GROWN COMPETITION FACTOR	RELATIVE DENSITY INDEX	SITE HEIGHT (FT)	MEAN DIAMETER (IN)	AVERAGE CROWN LENGTH (FT)	SPECIES COMPOSITION
80	79.7	75.3	21.7	73.7	13.5	34.6	PCNDEBOSA
100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

2 YEARS AFTER TREATMENT (1987)

LIVE TREES PER ACRE	LIVE BASAL AREA (SQ. FT./A)	GROWN COMPETITION FACTOR	RELATIVE DENSITY INDEX	SITE HEIGHT (FT)	MEAN DIAMETER (IN)	AVERAGE CROWN LENGTH (FT)	DEAD TREES PER ACRE	DEAD BASAL AREA (SQ. FT./A)	DEAD TOTAL VOLUME (CU. FT./A)	TOPKILL VOLUME (CU. FT./A)
80	87.6	75.0	23.6	75.4	14.1	100.0	0.0	0.0	0.0	0.0
100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1989)

LIVE TREES PER ACRE	LIVE BASAL AREA (SQ. FT./A)	GROWN COMPETITION FACTOR	RELATIVE DENSITY INDEX	SITE HEIGHT (FT)	MEAN DIAMETER (IN)	AVERAGE CROWN LENGTH (FT)	DEAD TREES PER ACRE	DEAD BASAL AREA (SQ. FT./A)	DEAD TOTAL VOLUME (CU. FT./A)	TOPKILL VOLUME (CU. FT./A)
80	92.5	75.6	24.7	76.4	14.5	100.0	0.0	0.0	0.0	0.0
100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0

PLOT SUMMARY REPORT

INSTALLATION 292 SPARTA BUTTE  
 REGION: NORTHEAST OREGON  
 LEGAL DESCRIPTION: T8S R44E SECTION 4  
 MEMBERSHIP: FOREST SERVICE  
 MERIDIAN: WILLAMETTE

TREATMENT	PLOT NUMBER					
	1	2	3	4	5	6
	200#N	C#N	400#N	400#N	J#A	200#N
<b>SITE AND SOIL CHARACTERISTICS:</b>						
SLOPE (%)	15	12	15	10	8	20
ASPECT	3C	8	358	14	1C	80
<b>MENSURATIONAL CHARACTERISTICS:</b>						
AT TIME OF TREATMENT (1985)						
LIVE TREES PER ACRE	70	70	95	90	130	90
LIVE BASAL AREA (SQ. FT/A)	108.1	141.0	136.0	90.1	140.4	101.5
CROWN COMPETITION FACTOR	81	100	100	71	109	81
RELATIVE DENSITY INDEX	26.4	32.2	33.8	24.5	37.4	26.2
SITE HEIGHT (FT)	98.7	104.1	92.8	77.0	88.9	83.4
MEAN DIAMETER (IN)	16.8	19.2	16.2	13.5	14.1	14.4
AVERAGE CROWN RATIO (%)	47	46	53	48	51	50
AVERAGE CROWN LENGTH (FT)	43.7	47.9	43.6	35.3	37.6	38.2
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	10.7	7.6	0.0	0.0	4.6	12.6
PACIFIC LARCH	89.3	92.4	100.0	100.0	95.4	87.4
2 YEARS AFTER TREATMENT (1987)						
LIVE TREES PER ACRE	70	70	95	90	130	90
LIVE BASAL AREA (SQ. FT/A)	113.4	149.4	142.8	97.4	147.2	106.3
LIVE TOTAL VOLUME (CU. FT/A)	479.0	633.4	555.3	324.6	531.6	370.7
CROWN COMPETITION FACTOR	85	105	104	75	114	84
RELATIVE DENSITY INDEX	27.3	33.6	35.1	26.0	38.8	27.7
SITE HEIGHT (FT)	99.7	105.7	94.4	79.0	90.5	84.9
MEAN DIAMETER (IN)	17.4	19.8	16.6	14.1	14.4	14.7
AVERAGE HEIGHT GROWTH (FT)	1.3	1.8	1.7	1.2	1.5	1.4
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
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
4 YEARS AFTER TREATMENT (1989)						
LIVE TREES PER ACRE	60	70	95	90	125	80
LIVE BASAL AREA (SQ. FT/A)	98.4	154.5	147.2	102.2	151.4	96.8
LIVE TOTAL VOLUME (CU. FT/A)	411.4	733.5	581.1	348.2	558.2	342.4
CROWN COMPETITION FACTOR	74	108	107	78	117	77
RELATIVE DENSITY INDEX	23.6	34.4	35.9	26.9	39.2	25.1
SITE HEIGHT (FT)	97.6	107.1	95.9	81.0	92.1	85.2
MEAN DIAMETER (IN)	17.3	20.1	16.9	14.4	14.1	14.9
AVERAGE CROWN RATIO (%)	48	53	56	52	53	53
AVERAGE CROWN LENGTH (FT)	45.6	56.6	47.6	40.2	40.7	42.1
AVERAGE HEIGHT GROWTH (FT)	3.1	3.3	2.9	3.9	3.0	3.2
DEAD TREES PER ACRE	1.0	0.0	0.0	0.0	0.0	1.0
DEAD BASAL AREA (SQ. FT/A)	18.4	0.0	0.0	0.0	1.0	12.4
DEAD TOTAL VOLUME (CU. FT/A)	86.4	0.0	0.0	0.0	16.0	44.3
TOPKILL VOLUME (CU. FT/A)	6.3	0.0	0.0	5.3	0.0	5.1

PLOT SUMMARY REPORT

INSTALLATION 293 SUMMIT SALVAGE CANESHIP: FOREST SERVICE  
 REGION: NORTHEAST OREGON PENNSHIP: WILLAMETTE  
 LEGAL DESCRIPTION: T55 R41E SECTION 27 MERIDIAN: WILLAMETTE

TREATMENT	1	2	3	4	5	6
	200#N	0#N	400#N	200#N	0#N	400#N

SITE AND SOIL CHARACTERISTICS:	PLOT NUMBER					
	1	2	3	4	5	6
SIGPE (%)	1C	15	10	24C	5	10
ASPECT	200	240	230	24C	11C	194

MENSURATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1985)	STAND AGE = .					
LIVE TREES PER ACRE	190	160	210	150	160	150
LIVE BASAL AREA (SQ. FT/A)	95.5	101.2	88.4	87.4	82.1	73.5
CHCWN COMPETITION INDEX	8.4	81	79	74	70	66
RELATIVE DENSITY	30.9	30.8	29.8	27.3	26.4	25.3
SITE HEIGHT (FT)	51.7	59.6	52.8	48.4	49.5	46.9
MEAN DIAMETER (IN)	9.6	10.8	8.8	10.4	9.7	8.5
AVERAGE CROWN LENGTH (FT)	5.7	5.8	5.9	6.5	6.4	5.8
SPECIES COMPOSITION (%)	26.1	25.6	23.7	26.8	27.2	22.9
DOUGLAS-FIR	4.7	0.0	18.8	0.0	0.0	0.0
P. CNDEBOSA PINE	95.3	100.0	81.2	100.0	100.0	100.0

2 YEARS AFTER TREATMENT (1987)

LIVE TREES PER ACRE	190	160	210	150	160	190
LIVE BASAL AREA (SQ. FT/A)	105.6	107.7	190.6	183.2	165.5	154.1
LIVE TOTAL VOLUME (CU. FT/A)	219.7	252.2	190.6	183.2	165.5	154.1
CHCWN COMPETITION INDEX	9.0	86	87	81	76	74
RELATIVE DENSITY	33.2	32.3	32.6	29.7	28.1	28.5
SITE HEIGHT (FT)	54.2	62.0	54.6	50.7	50.1	49.3
MEAN DIAMETER (IN)	10.1	11.5	9.6	10.9	10.4	9.1
AVERAGE CROWN LENGTH (FT)	2.1	1.5	1.6	2.1	2.4	2.1
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
DEAD TOTAL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
TCPKILL	0.0	0.0	0.0	0.0	0.0	0.0

4 YEARS AFTER TREATMENT (1989)

LIVE TREES PER ACRE	190	150	190	150	160	190
LIVE BASAL AREA (SQ. FT/A)	114.5	108.1	207.2	104.4	160.7	179.3
LIVE TOTAL VOLUME (CU. FT/A)	248.5	265.0	207.2	205.4	191.4	179.3
CHCWN COMPETITION INDEX	9.7	85	90	86	81	82
RELATIVE DENSITY	35.7	31.9	32.4	31.9	29.6	31.5
SITE HEIGHT (FT)	55.2	63.7	54.9	52.9	52.5	51.5
MEAN DIAMETER (IN)	10.5	11.5	9.9	11.2	10.6	9.3
AVERAGE CROWN LENGTH (FT)	2.9	2.7	2.5	2.9	2.5	2.3
AVERAGE DBH PER ACRE	4.0	3.1	3.2	3.9	4.0	4.0
DEAD TREES PER ACRE	0.0	4.6	5.6	0.0	0.0	0.0
DEAD BASAL AREA (SQ. FT/A)	0.0	8.2	9.6	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0.0	8.2	9.6	0.0	0.0	0.0
TCPKILL	0.0	0.0	0.0	0.0	0.0	0.0

PLCT SUMMARY REPORT

INSTALLATION 294 ROSES CREEK  
 REGION: NORTHEAST OREGON  
 LEGAL DESCRIPTION: T3N R40E SECTION 3C  
 OWNERSHIP: ECISE CASCADE  
 MERIDIAN: WILLAMETTE

TREATMENT	PLCT NUMBER					
	1	2	3	4	5	6
	0#N	200#N	400#N	400#N	0#N	200#N
<b>SITE AND SOIL CHARACTERISTICS:</b>						
SLOPE (%)						
ASPECT	102	0	107	250	215	10
<b>MENSURATIONAL CHARACTERISTICS:</b>						
<b>AT TIME OF TREATMENT (1985)</b>						
	STAND AGE = .					
LIVE TREES PER ACRE	120	140	105	90		140
LIVE BASAL AREA (SQ. FT/A)	129.4	135.2	126.3	130.2	150	140.0
CROWN COMPETITION FACTOR	97	106	96	95		111
RELATIVE DENSITY INDEX	34.5	37.1	32.8	32.3	39	39.7
SITE HEIGHT (FT)	89.9	87.6	93.4	88.4	80	85.3
MEAN DIAMETER (IN)	14.1	13.3	14.9	16.3	15	13.9
AVERAGE CROWN RATIO (%)	53	58	52	46		49
AVERAGE CROWN LENGTH (FT)	34.0	40.6	40.8	37.7	34.2	34.4
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	0.6	3.5	12.7	0.0	0.0	0.0
GRAND FIR	0.6	0.0	0.0	0.0	0.0	0.0
WESTERN LARCH	0.0	16.0	1.4	0.0	0.0	0.0
POUNDEROSA PINE	98.8	30.6	85.9	100.0	100.0	100.0
<b>2 YEARS AFTER TREATMENT (1987)</b>						
LIVE TREES PER ACRE	120	140	105	90		140
LIVE BASAL AREA (SQ. FT/A)	136.3	145.6	135.0	134.5	157	140
LIVE TOTAL VOLUME (CU. FT/A)	514.1	499.7	529.6	514.7	597.2	557.6
CROWN COMPETITION FACTOR	101	113	102	98		111
RELATIVE DENSITY INDEX	35.5	39.2	34.5	33.9	39.9	41.8
SITE HEIGHT (FT)	92.5	90.1	96.2	89.3	91.9	87.5
MEAN DIAMETER (IN)	14.4	13.8	15.4	16.3	15.1	14.5
AVERAGE HEIGHT GROWTH (FT)	1.9	2.0	2.2	1.5	2.1	2.0
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0	0	0	0	0	0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	0	0	0
TOPKILL VOLUME (CU. FT/A)	0	0	0	0	0	0
<b>4 YEARS AFTER TREATMENT (1989)</b>						
LIVE TREES PER ACRE	115	135	95	65		140
LIVE BASAL AREA (SQ. FT/A)	141.1	151.7	137.7	100.5	163	140
LIVE TOTAL VOLUME (CU. FT/A)	543.2	536.6	556.7	393.9	636.8	600.1
CROWN COMPETITION FACTOR	104	117	103	73		123
RELATIVE DENSITY INDEX	36.4	40.0	34.1	24.5	41	42.3
SITE HEIGHT (FT)	94.1	92.4	97.5	89.0	92.5	89.3
MEAN DIAMETER (IN)	15.0	14.4	16.5	16.0	15.0	14.8
AVERAGE CROWN RATIO (%)	55	60	53	52		54
AVERAGE CROWN LENGTH (FT)	37.5	44.5	45.0	44.5	42.5	40.5
AVERAGE HEIGHT GROWTH (FT)	3.6	4.1	4.2	4.0	4.0	3.7
DEAD TREES PER ACRE	1	2	4	2	0	0
DEAD BASAL AREA (SQ. FT/A)	2.1	6.1	11.3	14.7	6.1	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0.2	0.0	0.0	0.0	0.0	0.0
TOPKILL VOLUME (CU. FT/A)	0.2	0.0	0.0	0.0	0.0	0.4

## PLCT SUMMARY REPORT

INSTALLATION 295 PARKERS FLAT  
 REGION: NORTHEAST OREGON OWNERSHIP: BCISE CASCADE  
 LEGAL DESCRIPTION: T2N R39E SECTION 34 MERIDIAN: WILLAMETTE

TREATMENT	PLCT NUMBERS					
	1 0#N	2 400#N	3 200#N	4 400#N	5 200#N	6 0#N
<b>SITE AND SOIL CHARACTERISTICS:</b>						
SLOPE (%)	12	7	7	10	13	14
ASPECT	216	230	193	180	208	190
<b>MENSURATIONAL CHARACTERISTICS:</b>						
AT TIME OF TREATMENT (1985)						
	STAND AGE = .					
LIVE TREES PER ACRE	260	250	280	220	220	240
LIVE BASAL AREA (SQ. FT/A)	103.7	108.5	118.1	127.5	138.5	124.6
CROWN COMPETITION FACTOR	9.1	9.5	10.3	10.8	11.7	10.6
RELATIVE DENSITY INDEX	35.5	36.3	39.8	39.7	42.3	39.9
SITE HEIGHT (FT)	47.5	48.1	52.8	50.5	54.5	49.0
MEAN DIAMETER (IN)	8.6	8.9	8.8	10.3	10.7	9.8
AVERAGE CROWN RATIO (%)	6.1	5.9	5.6	5.7	5.9	6.2
AVERAGE CROWN LENGTH (FT)	25.1	26.1	22.3	26.0	29.1	27.2
SPECIES COMPOSITION (% OF BA)						
PCNDEBOSA PINE	100.0	100.0	100.0	100.0	100.0	100.0
<b>2 YEARS AFTER TREATMENT (1987)</b>						
LIVE TREES PER ACRE	260	250	280	220	220	240
LIVE BASAL AREA (SQ. FT/A)	113.2	120.9	130.9	138.1	147.6	134.0
LIVE TOTAL VOLUME (CU. FT/A)	211.2	230.2	244.0	233.7	321.1	268.6
CROWN COMPETITION FACTOR	9.9	10.5	11.2	11.6	12.4	11.3
RELATIVE DENSITY INDEX	37.9	39.4	43.0	42.2	44.3	42.1
SITE HEIGHT (FT)	50.6	50.3	55.2	52.9	56.6	51.4
MEAN DIAMETER (IN)	8.9	9.3	9.3	10.7	11.1	10.1
AVERAGE HEIGHT GROWTH (FT)	2.3	2.3	2.1	2.3	2.1	2.3
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
DEAD TOTAL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
<b>4 YEARS AFTER TREATMENT (1989)</b>						
LIVE TREES PER ACRE	260	250	280	220	220	240
LIVE BASAL AREA (SQ. FT/A)	121.8	131.9	143.7	147.7	158.1	142.2
LIVE TOTAL VOLUME (CU. FT/A)	239.6	264.2	281.9	318.4	354.9	300.3
CROWN COMPETITION FACTOR	10.6	11.4	12.3	12.3	13.0	11.9
RELATIVE DENSITY INDEX	40.0	42.1	46.1	44.3	46.6	44.0
SITE HEIGHT (FT)	52.7	52.5	57.7	55.1	59.0	53.5
MEAN DIAMETER (IN)	9.3	9.8	9.7	11.1	11.4	10.4
AVERAGE CROWN RATIO (%)	5.8	5.6	5.4	5.6	5.7	5.9
AVERAGE CROWN LENGTH (FT)	26.8	27.3	23.9	27.3	30.8	28.5
AVERAGE HEIGHT GROWTH (FT)	4.6	4.6	4.1	4.3	4.6	4.5
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	0.0	0.0	0.0
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.4	0.0	0.0	0.0

## PLCT SUMMARY REPORT

INSTALLATION 296 NOSES CREEK  
 REGION: CENTRAL WASHINGTON OWNERSHIP: FOREST SERVICE  
 LEGAL DESCRIPTION: T21N R14E SECTION 24 MERIDIAN: WILLAMETTE

	PLCT NUMBERS					
	1	2	3	4	5	6
TREATMENT	400#N	0#N	200#N	0#N	400#N	200#N
<b>SITE AND SOIL CHARACTERISTICS:</b>						
SLOPE (%)	3	3	5	13	11	10
ASPECT	100	100	100	130	124	127
<b>MENSURATIONAL CHARACTERISTICS:</b>						
AT TIME OF TREATMENT (1985) STAND AGE = .						
LIVE TREES PER ACRE	150	170	180	200	160	190
LIVE BASAL AREA (SQ. FT/A)	82.5	76.3	93.5	88.8	106.4	106.2
CROWN COMPETITION FACTOR	70	67	81	78	68	71
RELATIVE DENSITY INDEX	26.0	25.8	29.9	29.6	32.0	33.4
SITE HEIGHT (FT)	46.0	46.1	45.5	46.4	51.0	46.8
MEAN DIAMETER (IN)	10.0	9.2	9.8	9.0	11.0	10.1
AVERAGE CROWN RATIO (%)	64	64	63	60	60	63
AVERAGE CROWN LENGTH (FT)	25.1	24.9	25.2	23.1	27.2	25.9
SPECIES COMPOSITION (% OF BA)						
PCNDEBOSA PINE	100.0	100.0	100.0	100.0	100.0	100.0
<b>2 YEARS AFTER TREATMENT (1987)</b>						
LIVE TREES PER ACRE	150	170	180	200	160	190
LIVE BASAL AREA (SQ. FT/A)	96.4	85.9	107.5	99.6	120.3	120.3
LIVE TOTAL VOLUME (CU. FT/A)	1772	1647	1972	1825	2600	2248
CROWN COMPETITION FACTOR	80	76	91	87	58	102
RELATIVE DENSITY INDEX	29.3	28.6	33.2	32.2	35.1	36.7
SITE HEIGHT (FT)	49.0	50.2	49.3	50.6	55.2	49.6
MEAN DIAMETER (IN)	10.9	9.8	10.5	9.6	11.7	10.8
AVERAGE HEIGHT GROWTH (FT)	3.1	3.6	3.5	3.7	3.7	3.2
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
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
<b>4 YEARS AFTER TREATMENT (1989)</b>						
LIVE TREES PER ACRE	150	170	180	200	160	190
LIVE BASAL AREA (SQ. FT/A)	111.6	100.8	121.3	110.2	134.9	134.8
LIVE TOTAL VOLUME (CU. FT/A)	2217	2015	2421	2202	3172	2732
CROWN COMPETITION FACTOR	91	85	102	94	108	113
RELATIVE DENSITY INDEX	32.6	31.2	36.4	34.7	38.3	39.9
SITE HEIGHT (FT)	51.9	54.4	52.9	54.6	59.8	52.8
MEAN DIAMETER (IN)	11.7	10.4	11.7	10.0	12.4	11.4
AVERAGE CROWN RATIO (%)	62	59	57	54	55	63
AVERAGE CROWN LENGTH (FT)	28.5	27.4	26.7	24.6	28.9	30.2
AVERAGE HEIGHT GROWTH (FT)	6.4	7.2	6.9	7.1	7.3	6.7
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
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0



## PLCT SUMMARY REPORT

INSTALLATION 297 UFFER MUD CREEK  
 REGION: CENTRAL WASHINGTON OWNERSHIP: FOREST SERVICE  
 LEGAL DESCRIPTION: T27N R20E SECTION 25 MERIDIAN: WILLAMETTE

TREATMENT	PLCT NUMBER					
	1	2	3	4	5	6
	0#N	400#N	200#N	200#N	0#N	400#N
<b>SITE AND SOIL CHARACTERISTICS:</b>						
SLOPE (%)						
ASPECT	33 <sup>E</sup>	0	130 <sup>S</sup>	130 <sup>S</sup>	160 <sup>S</sup>	0
<b>MENSURATIONAL CHARACTERISTICS:</b>						
AT TIME OF TREATMENT (1985) STAND AGE = .						
LIVE TREES PER ACRE	140	120	140	170	170	190
LIVE BASAL AREA (SQ. FT/A)	70.6	66.0	61.9	62.6	76.9	80.0
CROWN COMPETITION FACTOR	61	57	54	55	67	70
RELATIVE DENSITY INDEX	22.8	20.8	20.6	21.8	25.5	27.0
SITE HEIGHT (FT)	52.1	51.9	47.3	40.7	51.0	48.0
MEAN DIAMETER (IN)	9.6	10.0	9.0	8.2	9.1	8.8
AVERAGE CROWN RATIO (%)	64	58	64	62	64	64
AVERAGE CROWN LENGTH (FT)	29.2	27.8	26.8	23.1	29.4	27.5
SPECIES COMPOSITION (% OF EA)						
PCNDEBOSA PINE	100.0	100.0	100.0	100.0	100.0	100.0
<b>2 YEARS AFTER TREATMENT (1987)</b>						
LIVE TREES PER ACRE	140	110	140	170	170	190
LIVE BASAL AREA (SQ. FT/A)	75.8	65.4	67.0	68.4	83.4	87.8
LIVE TOTAL VOLUME (CU. FT/A)	1546	1507	1233	1135	1667	1620
CROWN COMPETITION FACTOR	65	56	58	59	72	77
RELATIVE DENSITY INDEX	24.0	20.2	21.9	23.3	27.1	28.9
SITE HEIGHT (FT)	54.9	52.5	49.7	42.9	53.5	50.0
MEAN DIAMETER (IN)	10.0	10.4	9.4	8.6	9.2	9.2
AVERAGE HEIGHT GROWTH (FT)	2.0	0.5	2.4	2.3	2.2	2.0
DEAD TREES PER ACRE	0.0	10	0.0	0.0	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)	0.0	92	0.0	0.0	0.0	0.0
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
<b>4 YEARS AFTER TREATMENT (1989)</b>						
LIVE TREES PER ACRE	140	30	140	170	170	190
LIVE BASAL AREA (SQ. FT/A)	80.2	17.2	70.4	72.4	88.7	93.4
LIVE TOTAL VOLUME (CU. FT/A)	1701	358	1337	1243	1857	1778
CROWN COMPETITION FACTOR	69	15	61	63	76	81
RELATIVE DENSITY INDEX	25.2	5.4	22.7	24.4	28.4	30.3
SITE HEIGHT (FT)	56.3	49.9	51.3	44.5	55.1	49.3
MEAN DIAMETER (IN)	10.3	10.3	9.6	8.8	9.8	9.5
AVERAGE CROWN RATIO (%)	62	63	65	63	62	62
AVERAGE CROWN LENGTH (FT)	30.7	31.7	29.8	25.8	30.7	28.8
AVERAGE HEIGHT GROWTH (FT)	4.0	3.5	3.9	3.6	3.8	3.4
DEAD TREES PER ACRE	0.0	90	0.0	0.0	0.0	0.0
DEAD BASAL AREA (SQ. FT/A)	0.0	53.8	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0.0	1071	0.0	0.0	0.0	0.0
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0



## PLCT SUMMARY REPORT

INSTALLATION 299 LICK CREEK

REGION: CENTRAL WASHINGTON

LEGAL DESCRIPTION: T21N R16E SECTION 30

CWNESHIP: BOISE CASCADE

MERIDIAN: WILLAMETTE

TREATMENT	PLCT NUMBER					
	1	2	3	4	5	6
	400#N	200#N	0#N	0#N	200#N	400#N
<b>SITE AND SOIL CHARACTERISTICS:</b>						
SLOPE (%)	13	7	0	0	0	0
ASPECT	15E	16S	C	C	C	0
<b>MENSURATIONAL CHARACTERISTICS:</b>						
AT TIME OF TREATMENT (1985)						
LIVE TREES PER ACRE	280	210	230	220	240	240
LIVE BASAL AREA (SQ. FT/A)	162.7	156.8	164.3	159.9	165.8	194.5
CROWN COMPETITION FACTOR	135	129	136	131	138	155
RELATIVE DENSITY INDEX	50.7	45.8	48.6	47.1	49.4	55.7
SITE HEIGHT (FT)	72.3	70.6	80.0	75.5	76.4	79.2
MEAN DIAMETER (IN)	10.3	11.7	11.4	11.5	11.3	12.2
AVERAGE CROWN RATIO (%)	46	47	41	41	41	43
AVERAGE CROWN LENGTH (FT)	27.3	29.1	26.7	27.0	29.1	29.4
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	5.1	0.0	5.9	0.0	0.0	0.0
PCNDEBOSA PINE	94.9	100.0	94.1	100.0	100.0	100.0
2 YEARS AFTER TREATMENT (1987)						
LIVE TREES PER ACRE	280	210	230	220	240	240
LIVE BASAL AREA (SQ. FT/A)	174.8	167.1	172.5	167.8	176.5	205.3
LIVE TOTAL VOLUME (CU. FT/A)	480.3	466.9	523.1	505.4	557.6	645.0
CROWN COMPETITION FACTOR	148	136	142	136	145	164
RELATIVE DENSITY INDEX	53.4	48.1	50.4	48.8	51.8	58.0
SITE HEIGHT (FT)	74.7	72.9	82.3	77.9	79.2	82.0
MEAN DIAMETER (IN)	10.7	12.1	11.7	11.8	11.6	12.5
AVERAGE HEIGHT GROWTH (FT)	2.0	2.3	2.0	2.1	2.4	2.5
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	0.0	0.0	0.0
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
4 YEARS AFTER TREATMENT (1989)						
LIVE TREES PER ACRE	280	210	230	220	230	240
LIVE BASAL AREA (SQ. FT/A)	186.2	177.5	180.1	174.6	181.1	216.1
LIVE TOTAL VOLUME (CU. FT/A)	530.1	516.8	562.6	544.5	597.0	702.9
CROWN COMPETITION FACTOR	156	143	147	141	146	171
RELATIVE DENSITY INDEX	56.0	50.3	52.0	50.3	52.2	60.3
SITE HEIGHT (FT)	77.0	75.3	84.4	80.3	81.8	84.8
MEAN DIAMETER (IN)	11.0	12.4	12.0	12.1	12.0	12.8
AVERAGE CROWN RATIO (%)	49	49	44	45	45	48
AVERAGE CROWN LENGTH (FT)	31.4	32.6	30.6	32.2	34.3	35.1
AVERAGE HEIGHT GROWTH (FT)	4.2	4.7	3.9	4.3	5.0	4.7
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	5.2	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	14.4	0.0
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

PLCT SUMMARY REPORT

INSTALLATION 300 SAGE PLAT  
REGION: CENTRAL WASHINGTON  
LEGAL DESCRIPTION: T6N R12E SECTION 17

CWNEBSHIP: WASHINGTON DNR  
MERIDIAN: BILLARLETTE

PLCT NUMBER

TREATMENT

PLCT NUMBER	1	2	3	4	5	6
0#N	200#N	400#N	400#N	200#N	0#N	

SITE AND SOIL CHARACTERISTICS:

SLOPE (°)  
ASPECT

10 220 100 134 0 180

MENSURATIONAL CHARACTERISTICS:

AT TIME OF TREATMENT (1985)

STANDARD AGE =

LIVE TREES PER ACRE  
LIVE BASAL AREA (SQ. FT./A)  
CROWN COMPETITION INDEX  
RELATIVE DENSITY (%)  
SITE HEIGHT (FT.)  
MEAN DIAMETER (IN.)  
AVERAGE CROWN LENGTH (FT.)  
SPECIES COMPOSITION  
PONDEROSA PINE

21C 260 200 250 220 210C  
169 175 147 187 161 167  
59.1 62.2 51.1 65.7 57.0 59.2  
83.9 98.6 88.0 89.0 98.0 87.2  
13.9 12.4 13.3 13.3 13.1 12.7  
4.5 3.0 3.6 3.9 3.8 4.0  
33.6 24.6 28.1 29.7 25.0 29.5  
100.0 100.0 100.0 100.0 100.0 100.0

2 YEARS AFTER TREATMENT (1987)

LIVE TREES PER ACRE  
LIVE BASAL AREA (SQ. FT./A)  
LIVE TOTAL VOLUME (CU. FT./A)  
CROWN COMPETITION INDEX  
RELATIVE DENSITY (%)  
SITE HEIGHT (FT.)  
MEAN DIAMETER (IN.)  
AVERAGE CROWN LENGTH (FT.)  
DEAD TREES PER ACRE  
DEAD BASAL AREA (SQ. FT./A)  
DEAD TOTAL VOLUME (CU. FT./A)  
TOPKILL

21C 260 200 250 220 210C  
154 182 154 196 163 161  
61.2 64.5 54.9 68.7 59.4 61.4  
86.2 101.7 90.9 91.6 103.3 89.4  
14.2 12.7 13.2 12.6 13.2 13.1  
2.0 0.0 0.0 0.0 0.0 0.0  
0.0 0.0 0.0 0.0 0.0 0.0  
0.0 0.0 0.0 0.0 0.0 0.0

4 YEARS AFTER TREATMENT (1989)

LIVE TREES PER ACRE  
LIVE BASAL AREA (SQ. FT./A)  
LIVE TOTAL VOLUME (CU. FT./A)  
CROWN COMPETITION INDEX  
RELATIVE DENSITY (%)  
SITE HEIGHT (FT.)  
MEAN DIAMETER (IN.)  
AVERAGE CROWN LENGTH (FT.)  
AVERAGE BRIGGS AREA (SQ. FT./A)  
DEAD BASAL AREA (SQ. FT./A)  
DEAD TOTAL VOLUME (CU. FT./A)  
TOPKILL

21C 260 200 250 220 210C  
180 191 163 203 174 182  
88.0 94.2 80.1 98.8 88.5 81.9  
63.7 67.2 57.7 72.0 62.0 63.4  
88.2 104.1 93.7 94.4 103.9 91.4  
14.5 13.3 14.4 14.4 13.4 13.4  
3.5 3.7 3.6 3.4 3.5 3.5  
4.5 0.0 4.7 4.1 4.4 4.1  
0.0 0.0 0.0 0.0 0.0 0.0  
0.0 0.0 0.0 0.0 0.0 0.0

PLCT SUMMARY REPORT

INSTALLATION 301 LUBRECHT EXP. FOREST  
 REGION: MONTANA OWNERSHIP: U of M - LUBRECHT  
 LEGAL DESCRIPTION: T13N R15W SECTION 16 MERIDIAN: PRINCIPAL

TREATMENT	PLCT NUMBER					
	1	2	3	4	5	6
	200#K	NCNE	N+K	N+K	200#N	NCNE
<b>SITE AND SOIL CHARACTERISTICS:</b>						
SLOPE (%)	7	8	12	7	10	15
ASPECT	155	135	110	174	180	198
<b>MENSURATIONAL CHARACTERISTICS:</b>						
<b>AT TIME OF TREATMENT (1985)</b>						
	STAND AGE = .					
LIVE TREES PER ACRE	270	260	230	250	180	200
LIVE BASAL AREA (SQ. FT/A)	90.2	83.2	67.5	95.7	73.4	80.6
CROWN COMPETITION FACTOR	80	74	64	97	63	72
RELATIVE DENSITY INDEX	32.3	30.0	24.9	33.1	25.0	27.5
SITE HEIGHT (FT)	54.4	55.3	50.4	58.4	61.3	52.5
MEAN DIAMETER (IN)	7.8	7.7	7.3	8.4	8.6	8.6
AVERAGE CROWN RATIO (%)	45	44	44	46	49	51
AVERAGE CROWN LENGTH (FT)	20.8	19.6	19.0	22.5	23.6	23.2
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	0.0	0.0	8.7	40.8	0.0	4.6
PONDEROSA PINE	100.0	100.0	91.3	59.2	100.0	95.4
<b>2 YEARS AFTER TREATMENT (1987)</b>						
LIVE TREES PER ACRE	270	260	230	250	180	200
LIVE BASAL AREA (SQ. FT/A)	98.7	90.2	74.9	102.6	80.7	86.9
LIVE TOTAL VOLUME (CU. FT/A)	2017	1844	1453	2176	1805	1730
CROWN COMPETITION FACTOR	87	79	70	103	70	77
RELATIVE DENSITY INDEX	34.5	31.9	26.9	34.8	26.8	29.1
SITE HEIGHT (FT)	56.7	57.7	52.8	60.6	61.8	55.2
MEAN DIAMETER (IN)	8.2	8.0	7.7	8.7	9.1	8.5
AVERAGE HEIGHT GROWTH (FT)	1.9	1.8	1.9	1.9	2.2	2.1
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
DEAD TOTAL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

## PLCT SUMMARY REPORT

INSTALLATION 302 BLUE Mtn.  
 REGION: MONTANA OWNERSHIP: FOREST SERVICE  
 LEGAL DESCRIPTION: T13N R20W SECTION 34 SURVEYOR: PRINCIPAL

TREATMENT	PLCT NUMBER					
	1	2	3	4	5	6
	200#N	NCNE	N+K	N+K	NONE	200#N
<b>SITE AND SOIL CHARACTERISTICS:</b>						
SLOPE (%)	20	15	13	10	10	12
ASPECT	30	15	90	78	76	75
<b>MENSURATIONAL CHARACTERISTICS:</b>						
<b>AT TIME OF TREATMENT (1985)</b>						
STAND AGE =	.					
LIVE TREES PER ACRE	190	240	280	350	330	350
LIVE BASAL AREA (SQ. FT/A)	157.9	159.3	126.7	129.2	115.3	122.0
CROWN COMPETITION FACTOR	129	135	117	124	106	127
RELATIVE DENSITY INDEX	44.9	47.7	42.0	45.0	40.8	43.2
SITE HEIGHT (FT)	78.0	74.2	65.8	60.1	55.5	56.1
MEAN DIAMETER (IN)	12.3	11.0	9.1	8.2	8.0	8.0
AVERAGE CROWN RATIO (%)	47	41	38	35	40	45
AVERAGE CROWN LENGTH (FT)	31.9	26.7	21.2	17.9	18.7	21.3
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	9.1	13.3	17.6	24.4	10.8	43.0
PONDEROSA PINE	90.9	86.7	82.4	71.6	89.2	57.0
<b>2 YEARS AFTER TREATMENT (1987)</b>						
LIVE TREES PER ACRE	190	230	280	340	330	350
LIVE BASAL AREA (SQ. FT/A)	162.4	161.1	131.8	133.2	119.8	127.4
LIVE TOTAL VOLUME (CU. FT/A)	5114	4660	3230	2896	2465	2660
CROWN COMPETITION FACTOR	132	137	121	127	110	132
RELATIVE DENSITY INDEX	45.9	47.8	41.2	45.8	41.9	44.6
SITE HEIGHT (FT)	80.0	75.8	67.6	61.5	56.5	59.3
MEAN DIAMETER (IN)	12.3	11.3	9.3	8.5	8.2	8.2
AVERAGE HEIGHT GROWTH (FT)	1.8	1.6	1.4	1.2	1.2	1.1
DEAD TREES PER ACRE	0.0	1.0	0.0	1.0	0.0	0.0
DEAD BASAL AREA (SQ. FT/A)	0.0	1.6	0.0	1.2	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0.0	31	0.0	19	0.0	0.0
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	1.4	2.4	0.0	1.2

PLOT SUMMARY REPORT

INSTALLATION 303 FOUR MILE CR. CWNBSHIP: PCREST SERVICE  
 REGION: HONTANA HERIDIAN: PRINCIPAL  
 LEGAL DESCRIPTION: T18N R27W SECTION 12

TREATMENT	PLOT NUMBER					
	1	2	3	4	5	6
200#A	NCNE	NCNE	N+K	N+K	NOAE	200#N

SITE AND SOIL CHARACTERISTICS:  
 SLOPE (%) 47 45 45 40 40 20  
 ASPECT 21E 220 200 196 208 19S

MENSURATIONAL CHARACTERISTICS:  
 AT TIME OF TREATMENT (1985) STANC AGE = .

AT TIME OF TREATMENT (1985)	STANC AGE = .	1985	1970	1960	1950	1940	1930	1920
LIVE TREES PER ACRE		170	170	200	140	170	170	170
LIVE BASAL AREA (SQ-FT/A)		138.2	124.9	145.3	138.0	127.4	112.9	170
CROWN COMPETITION INDEX		10.9	10.2	12.3	10.8	11.5	10.1	10.9
RELATIVE DENSITY		39.4	36.7	42.8	37.6	37.2	34.0	40.0
SITE HEIGHT (FT)		84.4	74.4	76.2	84.4	77.7	77.0	77.0
MEAN DIAMETER (IN)		12.2	11.6	11.5	13.5	11.7	11.0	11.0
AVERAGE CROWN LENGTH (FT)		36.5	34.5	33.5	43.4	37.5	32.6	45.6
AVERAGES CROWN LENGTH (% OF BA)		0.0	0.0	5.7	0.0	4.1	16.9	83.1
SPECIES COMPOSITION (% OF BA)		100.0	100.0	94.3	100.0	95.9		
DOUGLAS-FIR								
PCNDEBOSA PINE								

2 YEARS AFTER TREATMENT (1987)

2 YEARS AFTER TREATMENT (1987)	1987	1970	1960	1950	1940	1930	1920
LIVE TREES PER ACRE	170	170	200	140	170	170	170
LIVE BASAL AREA (SQ-PT/A)	142.1	130.8	152.2	145.1	132.6	118.6	170
LIVE TOTAL VOLUME (CU-PT/A)	4797	4083	4745	5153	4147	3761	106
CROWN COMPETITION INDEX	40.4	37.9	44.3	39.1	38.3	35.3	33
RELATIVE DENSITY	86.5	76.9	78.8	86.6	79.1	79.3	79.3
SITE HEIGHT (FT)	12.8	12.9	11.8	13.8	12.1	11.4	12.4
MEAN DIAMETER (IN)	1.8	1.9	1.8	2.3	2.1	2.3	2.4
AVERAGE TRUNK PER ACRE (PT)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TRUNKS PER ACRE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DEAD BASAL VOLUME (CU-PT/A)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU-PT/A)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOPKILL							

## PLOT SUMMARY REPORT

INSTALLATION 304 HINCHWOOD CR. OWNERSHIP: CHAMPION  
 REGION: MONTANA MEDICIAN: PRINCIPAL  
 LEGAL DESCRIPTION: T21N R25W SECTION 19

	PLOT NUMBER					
	1	2	3	4	5	6
TREATMENT	MCNE	R+K	200#N	N+K	NONE	200#N
<b>SITE AND SOIL CHARACTERISTICS:</b>						
SLOPE (%)	12	15	10	10	12	12
ASPECT	245	220	242	250	246	226
<b>MENSURATIONAL CHARACTERISTICS:</b>						
<b>AT TIME OF TREATMENT (1985)</b>						
	STAND AGE = .					
LIVE TREES PER ACRE	250	370	220	300	260	280
LIVE BASAL AREA (SQ. FT/A)	125.1	147.5	136.3	104.6	102.8	122.1
CROWN COMPETITION FACTOR	107	128	117	92	91	106
RELATIVE DENSITY INDEX	40.4	50.5	41.7	37.0	35.9	40.8
SITE HEIGHT (FT)	70.5	66.4	72.8	64.2	62.9	63.4
MEAN DIAMETER (IN)	9.6	8.6	10.7	8.0	8.2	8.9
AVERAGE CROWN RATIO (%)	5.4	4.6	5.0	4.9	4.6	5.0
AVERAGE CROWN LENGTH (FT)	31.1	25.7	32.3	25.7	23.8	26.7
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	0.4	0.0	9.8	0.0	0.0	4.3
PCNDEBOSA PINE	99.6	100.0	90.2	100.0	100.0	95.7
<b>2 YEARS AFTER TREATMENT (1987)</b>						
LIVE TREES PER ACRE	250	370	220	300	270	280
LIVE BASAL AREA (SQ. FT/A)	131.9	154.3	143.2	112.2	105.7	130.5
LIVE TOTAL VOLUME (CU. FT/A)	3502	3925	4073	2649	2433	3201
CROWN COMPETITION FACTOR	113	134	122	98	93	114
RELATIVE DENSITY INDEX	42.1	52.2	43.3	39.0	36.3	42.9
SITE HEIGHT (FT)	72.9	69.0	73.8	66.5	65.3	63.6
MEAN DIAMETER (IN)	9.8	8.7	10.9	8.3	8.5	9.2
AVERAGE HEIGHT GROWTH (FT)	2.1	2.1	2.3	2.0	2.0	2.1
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
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	0	45	0
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0



## PLCT SUMMARY REPORT

INSTALLATION 305 LIBBY PLANTATION OWNERSHIP: CHAMPION  
 REGION: MONTANA MERIDIAN: PRINCIPAL  
 LEGAL DESCRIPTION: T29N R31W SECTION 12

TREATMENT	PLCT NUMBER					
	1	2	3	4	5	6
	NCNE	N+K	200#N	200#N	N+K	WONE
<b>SITE AND SOIL CHARACTERISTICS:</b>						
SLOPE (%)	0	0	0	0	0	0
ASPECT	.	.	.	.	.	.
<b>MENSURATIONAL CHARACTERISTICS:</b>						
AT TIME OF TREATMENT (1985)	STAND AGE = .					
LIVE TREES PER ACRE	230	210	230	240	200	230
LIVE BASAL AREA (SQ. FT/A)	111.9	102.1	84.5	96.0	101.3	110.8
CROWN COMPETITION FACTOR	97	89	74	84	87	96
RELATIVE DENSITY INDEX	36.4	33.2	29.5	32.8	32.6	36.1
SITE HEIGHT (FT)	59.3	62.4	52.9	54.8	57.4	60.9
MEAN DIAMETER (IN)	9.4	9.4	8.2	8.6	9.6	9.4
AVERAGE CROWN RATIO (%)	55	54	57	53	57	56
AVERAGE CROWN LENGTH (FT)	30.1	29.9	26.9	27.6	30.9	31.2
SPECIES COMPOSITION (% OF BA)						
PCNDEBOSA PINE	100.0	100.0	100.0	100.0	100.0	100.0
<b>2 YEARS AFTER TREATMENT (1987)</b>						
LIVE TREES PER ACRE	230	210	220	230	200	230
LIVE BASAL AREA (SQ. FT/A)	120.4	109.7	89.1	99.7	109.4	119.0
LIVE TOTAL VOLUME (CU. FT/A)	2900	2687	1855	2258	2576	2909
CROWN COMPETITION FACTOR	103	95	78	86	55	103
RELATIVE DENSITY INDEX	38.5	35.1	30.4	33.4	34.6	38.1
SITE HEIGHT (FT)	62.3	65.2	55.8	57.7	60.5	63.6
MEAN DIAMETER (IN)	9.8	9.8	8.6	8.9	10.6	9.7
AVERAGE HEIGHT GROWTH (FT)	2.7	2.6	2.7	2.8	2.6	2.8
DEAD TREES PER ACRE	0	0	10	10	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	2.2	3.3	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	34	69	0	0
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

PLCT SUMMARY REPORT

INSTALLATION 306 SEDLAK CR.  
 REGION: MONTANA

OWNERSHIP: CHAMPION  
 MERIDIAN: PRINCIPAL

LEGAL DESCRIPTION: T26N R29W SECTION 9

TREATMENT	PLCT NUMBER					
	1	2	3	4	5	6
	200#N	NCNE	N+K	200#N	N+K	NONE
<b>SITE AND SOIL CHARACTERISTICS:</b>						
SLOPE (%)	35	30	30	30	35	20
ASPECT	140	170	250	160	125	140
<b>MENSURATIONAL CHARACTERISTICS:</b>						
<b>AT TIME OF TREATMENT (1985)</b>						
	STAND AGE = .					
LIVE TREES PER ACRE	240	210	170	220	230	230
LIVE BASAL AREA (SQ. FT/A)	199.4	128.5	108.0	166.4	132.0	125.4
CROWN COMPETITION FACTOR	16.2	11.3	9.1	13.6	11.2	11.0
RELATIVE DENSITY INDEX	56.6	39.5	32.9	48.5	41.2	39.7
SITE HEIGHT (FT)	82.3	64.4	72.6	78.5	75.1	68.3
MEAN DIAMETER (IN)	12.3	10.6	10.8	11.8	10.4	10.0
AVERAGE CROWN RATIO (%)	45	56	61	53	46	50
AVERAGE CROWN LENGTH (FT)	33.0	31.8	38.6	39.1	31.4	32.5
<b>SPECIES COMPOSITION (% OF BA)</b>						
DOUGLAS-FIR	3.7	6.3	0.0	0.0	0.0	4.0
WESTERN LARCH	13.1	27.8	13.0	12.8	12.5	35.8
PONDEROSA PINE	83.2	65.4	87.0	87.2	87.5	60.1
ENGELMANN SPRUCE	0.0	0.5	0.0	0.0	0.0	0.0
<b>2 YEARS AFTER TREATMENT (1987)</b>						
LIVE TREES PER ACRE	240	210	170	180	230	230
LIVE BASAL AREA (SQ. FT/A)	208.6	138.0	116.9	148.5	140.4	132.2
LIVE TOTAL VOLUME (CU. FT/A)	6748	3543	3300	4785	4233	3601
CROWN COMPETITION FACTOR	16.8	12.0	9.8	12.0	11.8	11.6
RELATIVE DENSITY INDEX	58.7	41.6	34.9	42.3	43.2	41.3
SITE HEIGHT (FT)	85.0	67.1	75.4	81.3	77.9	70.3
MEAN DIAMETER (IN)	12.6	11.0	11.2	12.3	10.6	10.3
AVERAGE HEIGHT GROWTH (FT)	2.4	2.4	2.4	2.5	2.3	2.4
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	26.2	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0.0	0.0	0.0	837	0.0	0.0
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

**SECTION VI**

**Two Year Growth Response Summaries  
for One-half of the Douglas-fir Installations**

INSTALLATION ADJUSTED GROWTH

INSTALLATION 201

LAFFINWELL CREEK #1

REGION: CENTRAL IDAHO

OWNERSHIP: BOISE CASCADE

LEGAL DESCRIPTION: T16N R4E

SECTION 21

MERIDIAN: BCISC

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	3.6	5.8	145	203	0.31
200#N	NONE	4.9	6.7	184	221	0.30
400#N	NONE	1.6	6.3	143	242	0.40
200#N	200#N	1.6	8.5	105	260	0.40
400#N	200#N	6.1	6.9	230	250	0.31
0#N	N+K	7.5	7.8	243	254	0.29
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	1.3	-0.1	59	18	-0.11
400#N-200#N	.	.	.	.	.
NEW 200#N					
N+K ON CONT	-2.0	1.7	-40	57	0.05
N+K ON TREAT	2.6	1.1	59	33	-0.01
NEW 200#K	4.5	0.6	87	8	-0.05

EFFECT	TWO YEAR PERCENT RESPONSE/ACRE				
	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N					
OLD 400#N	36.1	-1.5	26.9	8.9	-3.2
400#N-200#N	.	.	.	.	.
NEW 200#N					
N+K ON CONT	-55.6	25.0	-27.6	28.1	29.0
N+K ON TREAT	53.1	16.4	32.1	14.9	-3.3
NEW 200#K	281.3	9.5	60.8	3.3	-22.5

## INSTALLATION ADJUSTED GROWTH

INSTALLATION 202

HORSESHOE RESERVOIR

REGION: CENTRAL IDAHO

OWNERSHIP: BOISE CASCADE

LEGAL DESCRIPTION: T13N R5E SECTION 18

MERIDIAN: BCISE

## STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	64 YEARS
TREES PER ACRE	182 TREES/ACRE
BASAL AREA	87.9 SQ. FEET/ACRE
TOTAL VOLUME	1819 CU. FEET/ACRE
CCF	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 37.9 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	5.9	4.6	149	112	0.23
400#N	NONE	6.9	7.0	160	166	0.42
200#N	200#N	.	.	.	.	.
400#N	200#N	.	.	.	.	.
0#N	N+K	6.6	7.1	197	213	0.43
200#N	N+K	5.1	6.7	159	198	0.43
400#N	N+K	-6.1	5.4	-61	165	0.63

EFFECT		TWO YEAR ABSOLUTE RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		1.2	-0.1	30	-7	0.11
OLD 400#N		2.2	2.3	41	47	0.20
400#N-200#N		1.0	2.4	11	54	0.15
NEW 200#N		.	.	.	.	.
N+K ON CONT		1.9	5.4	78	94	0.21
N+K ON TREAT		-6.9	5.3	-106	43	0.20
NEW 200#K		.	.	.	.	.

EFFECT		TWO YEAR PERCENT RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		25.5	-2.1	25.2	-5.9	4.5
OLD 400#N		46.8	48.9	34.5	39.5	30.9
400#N-200#N		16.9	52.2	7.4	48.2	32.6
NEW 200#N		.	.	.	.	.
N+K ON CONT		40.4	51.1	65.5	79.0	25.5
N+K ON TREAT		-107.8	4.3	-68.3	30.6	63.1
NEW 200#K		.	.	.	.	.

INSTALLATION ADJUSTED GROWTH

INSTALLATION 203

LAFFINKWELL CREEK #2

REGION: CENTRAL IDAHO

OWNER: BLISE CASCADE

LEGAL DESCRIPTION: T16N R4E

SECTION 29

MERIDIAN: BLISE

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	125.5
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	5.2	5.0	193	190	0.23
200#N	NONE	4.7	5.4	175	183	0.41
400#N	NONE	6.0	6.0	193	194	0.28
200#N	200#N	-11.9	4.1	-235	142	0.37
400#N	200#N	-1.9	5.1	26	213	0.29
J#N	N+K	6.7	6.8	253	257	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	-0.4	0.4	-13	-7	0.12
OLD 400#N	.	.	.	.	.
400#N-200#N	.	.	.	.	.
NEW 200#N	1.3	0.6	18	11	-0.13
N+K CN CONT	-7.0	0.1	-167	23	0.06
N+K CN TREAT	18.6	2.7	488	112	-0.33
NEW 200#K					

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	-7.8	8.0	-9.3	-3.7	78.3
OLD 400#N	.	.	.	.	.
400#N-200#N	.	.	.	.	.
NEW 200#N	27.7	11.1	10.3	6.0	-31.7
N+K CN CONT	-137.3	2.0	-86.5	12.1	26.1
N+K CN TREAT	156.3	65.9	207.7	77.2	-8.1
NEW 200#K					

## INSTALLATION ADJUSTED GROWTH

INSTALLATION 204

JOHNSON'S MILL #1

REGION: NORTHERN IDAHO

OWNERSHIP: ICL

LEGAL DESCRIPTION: T37N R3E SECTION 4 MERIDIAN: BOISE

## STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	47 YEARS
TREES PER ACRE	216 TREES/ACRE
BASAL AREA	134.3 SQ. FEET/ACRE
TOTAL VOLUME	3663 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	3.2	3.2	294	295	0.31
200#N	NONE	12.2	10.2	472	415	0.37
400#N	NONE	12.3	11.5	463	444	0.43
200#N	200#N	6.8	11.3	363	461	0.56
400#N	200#N	14.0	14.9	500	625	0.71
0#N	N+K	13.7	13.5	485	460	0.49
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		4.0	2.0	178	120	0.06
OLD 400#N		4.1	3.4	169	149	0.12
400#N-200#N		0.1	1.4	-7	29	0.06
NEW 200#N		-1.9	2.2	17	114	0.23
N+K CN CONT		5.5	5.3	191	185	0.18
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		48.8	24.4	60.5	40.7	19.4
OLD 400#N		50.0	41.5	57.5	50.5	38.7
400#N-200#N		0.8	13.7	-1.9	7.0	16.2
NEW 200#N		-15.1	20.2	3.6	26.4	58.7
N+K CN CONT		67.1	64.6	65.0	62.7	58.1
N+K CN TREAT		.	.	.	.	.
NEW 200#K		.	.	.	.	.

INSTALLATION ADJUSTED GROWTH

INSTALLATION 205

JOHNSON'S MILL #2

REGION: NORTHERN IDAHO

OWNERSHIP: ICL

LEGAL DESCRIPTION: T37N R3E SECTION 4 MERIDIAN: BCISE

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	9.3	9.4	426	429	0.38
200#N	NONE	9.3	9.4	426	429	0.38
400#N	NONE	10.8	11.3	444	452	0.44
200#N	200#N	14.0	13.8	557	551	0.49
400#N	200#N	10.4	14.5	552	724	0.52
0#N	N+K	8.1	10.3	370	439	0.38
200#N	N+K	12.5	12.1	552	583	0.45
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	1.5	1.9	18	23	0.06
400#N-200#N	-0.4	3.2	148	272	0.06
NEW 200#N	-1.2	0.9	-56	10	-0.02
N+K CN CONT	-1.5	-1.7	35	32	-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	16.1	20.2	4.2	5.4	15.8
OLD 400#N					
400#N-200#N	-3.7	28.3	33.3	60.2	14.2
NEW 200#N	-12.9	9.6	-13.1	2.3	-5.3
N+K CN CONT	-10.7	-12.3	6.3	5.8	-8.2
N+K CN TREAT					
NEW 200#K					



## INSTALLATION ADJUSTED GROWTH

INSTALLATION 206

CARIBEL

REGION: NORTHERN IDAHO

OWNERSHIP: IOL

LEGAL DESCRIPTION: T34N R4E

SECTION 36

MERIDIAN: BCISE

## 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
J#N	NONE	8.2	9.9	432	486	0.35
200#N	NONE	10.7	10.0	504	465	0.28
400#N	NCNE	.	.	.	.	.
200#N	200#N	.	.	.	.	.
400#N	200#N	12.4	12.3	656	620	0.47
J#N	N+K	11.5	11.5	590	590	0.36
200#N	N+K	10.6	10.7	526	527	0.35
400#N	N+K	7.8	9.0	425	454	0.32

EFFECT		TWO YEAR ABSOLUTE RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		2.5	0.1	72	-1	-0.07
OLD 400#N		.	.	.	.	.
400#N-200#N		.	.	.	.	.
NEW 200#N		.	.	.	.	.
N+K ON CNT		3.3	1.6	158	104	0.01
N+K ON TREAT		-0.1	0.7	22	42	0.07
NEW 200#K		-4.6	-3.3	-230	-166	-0.15

EFFECT		TWO YEAR PERCENT RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		30.5	1.0	16.7	-0.2	-20.0
OLD 400#N		.	.	.	.	.
400#N-200#N		.	.	.	.	.
NEW 200#N		.	.	.	.	.
N+K ON CNT		40.2	16.2	36.6	21.4	2.9
N+K ON TREAT		-0.9	7.0	4.4	8.7	25.0
NEW 200#K		-37.1	-20.8	-35.1	-24.8	-31.9

## INSTALLATION ADJUSTED GROWTH

INSTALLATION 207

WAHA

REGION: NORTHEAST OREGON

OWNERSHIP: PGT LATCH

LEGAL DESCRIPTION: T33N R4W SECTION 10 MERIDIAN: 9LISE

## 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	46.8
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	-8.8	5.7	-137	246	0.25
200#N	NONE	-26.6	5.2	-809	215	0.63
400#N	NONE	6.5	6.7	272	279	0.24
200#N	200#N	.	.	.	.	.
400#N	200#N	.	.	.	.	.
0#N	N+K	-38.7	4.2	-1130	196	-0.13
200#N	N+K	-17.5	4.2	-360	196	0.91
400#N	N+K	-14.1	6.6	-275	268	0.86

EFFECT	TWO YEAR ABSOLUTE RESPONSE/ACRE				
	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	-20.0	-0.5	-672	-31	0.36
OLD 400#N	15.3	1.0	409	33	-0.01
400#N-200#N	35.3	1.5	1081	64	-0.35
NEW 200#N	.	.	.	.	.
N+K CN CNT	-29.9	-1.5	-953	-50	-0.36
N+K CN TREAT	-4.7	-0.6	-49	-15	0.45
NEW 200#K	.	.	.	.	.

EFFECT	TWO YEAR PERCENT RESPONSE/ACRE				
	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	-227.3	-8.8	-490.5	-12.6	152.0
OLD 400#N	173.9	17.5	258.5	13.4	-4.0
400#N-200#N	122.6	28.8	133.6	29.8	-61.9
NEW 200#N	.	.	.	.	.
N+K CN CNT	-339.8	-26.3	-724.3	-20.3	-152.0
N+K CN TREAT	-41.7	-9.2	-18.2	-6.1	103.4
NEW 200#K	.	.	.	.	.

## INSTALLATION ADJUSTED GROWTH

INSTALLATION 208

LOVELL VALLEY ROAD

REGION: NORTHERN IDAHO

OWNERSHIP: POTLATCH

LEGAL DESCRIPTION: T46N R5W

SECTION 25

MERIDIAN: BLISE

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	127.4
RELATIVE DENSITY INDEX	51.4
MEAN DIAMETER	15.0 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	-0.8	7.7	-194	315	0.61
200#N	NONE	0.9	7.7	425	362	0.27
400#N	NONE	10.4	8.9	440	401	0.24
200#N	200#N	7.5	8.4	351	380	0.37
400#N	200#N	7.2	8.8	382	428	0.46
0#N	N+K	8.8	9.0	440	451	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
CLD 200#N						
CLD 400#N		16.7	0.0	619	47	-0.34
400#N-200#N						
NEW 200#N		-2.4	0.7	-74	18	0.10
N+K CN CNT		14.0	1.1	576	113	-0.15
N+K CN TREAT						
NEW 200#K		-1.0	0.1	0	50	0.11

EFFECT		TWO YEAR PERCENT RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
CLD 200#N						
CLD 400#N		245.6	0.0	319.1	14.9	-55.7
400#N-200#N						
NEW 200#N		-24.2	9.1	-17.4	5.0	37.0
N+K CN CNT		205.9	14.3	296.9	35.9	-24.6
N+K CN TREAT						
NEW 200#K		-15.4	1.1	0.0	12.5	45.8

## INSTALLATION ADJUSTED GROWTH

INSTALLATION 209

ADUEY

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	4.9	4.8	264	262	0.17
200#N	NONE	.	.	.	.	.
400#N	NONE	4.1	4.8	221	239	0.18
200#N	200#N	6.1	4.3	312	260	0.16
400#N	200#N	.	.	.	.	.
0#N	N+K	3.2	5.1	247	305	0.19
200#N	N+K	5.8	6.3	309	320	0.27
400#N	N+K	6.2	5.4	296	279	0.21

EFFECT	TWO YEAR ABSOLUTE RESPONSE/ACRE				
	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	.	.	.	.	.
OLD 400#N	-0.3	0.0	-43	-23	0.01
400#N-200#N	.	.	.	.	.
NEW 200#N	.	.	.	.	.
N+K CN CONT	-1.7	0.3	-17	43	0.02
N+K CN TREAT	2.1	0.6	75	40	0.03
NEW 200#K	-0.3	2.0	-3	60	0.11

EFFECT	TWO YEAR PERCENT RESPONSE/ACRE				
	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	.	.	.	.	.
OLD 400#N	-16.3	0.0	-16.3	-8.8	5.9
400#N-200#N	.	.	.	.	.
NEW 200#N	.	.	.	.	.
N+K CN CONT	-34.7	6.3	-6.4	16.4	11.8
N+K CN TREAT	51.2	12.5	33.9	16.7	16.7
NEW 200#K	-4.9	46.5	-1.0	23.1	68.8

INSTALLATION ADJUSTED GROWTH

INSTALLATION 210

BUCK CREEK

REGION: NORTHEAST WASHINGTON

OWNERSHIP: INLAND EMPIRE

LEGAL DESCRIPTION: T31N R43E SECTION 20

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	165.0
RELATIVE DENSITY INDEX	46.9
MEAN DIAMETER	10.3 INCHES

GROWTH IN 2 YEARS FOLLOWING RETREATMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON BASAL AREA OF 154.6 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	4.3	202	224	0.34
200#N	NONE	8.4	5.9	305	231	0.18
400#N	NONE	.	.	.	.	.
200#N	200#N	.	.	.	.	.
400#N	200#N	7.9	8.5	356	370	0.35
0#N	N+K	7.0	7.2	324	330	0.26
200#N	N+K	6.6	7.2	322	330	0.42
400#N	N+K	5.4	5.7	248	255	0.23

EFFECT		TWO YEAR ABSOLUTE RESPONSE/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
CLD	200#N	5.2	1.5	105	7	-0.18
CLD	400#N	.	.	.	.	.
400#N	-200#N	.	.	.	.	.
NEW	200#N	.	.	.	.	.
N+K	ON CONT	3.8	2.8	122	106	-0.08
N+K	ON TREAT	-1.8	1.3	17	99	0.24
NEW	200#K	-2.5	-2.8	-168	-115	-0.15

EFFECT		TWO YEAR PERCENT RESPONSE/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
CLD	200#N	162.5	34.1	51.0	3.1	-47.1
CLD	400#N	.	.	.	.	.
400#N	-200#N	.	.	.	.	.
NEW	200#N	.	.	.	.	.
N+K	ON CONT	118.8	63.6	60.4	47.3	-23.5
N+K	ON TREAT	-21.4	22.0	5.6	42.9	133.3
NEW	200#K	-31.6	-32.9	-30.3	-31.1	-42.9

INSTALLATION ADJUSTED GROWTH

INSTALLATION 211

PEEL 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	6.7	10.3	338	406	0.36
200#N	NONE	-6.4	11.3	39	447	0.86
400#N	NONE	2.3	13.9	201	481	0.40
200#N	200#N	5.6	13.9	279	486	0.55
400#N	200#N	5.1	14.9	274	523	0.15
0#N	N+K	0.5	14.1	369	531	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	-13.1	1.0	-299	41	0.50
OLD 400#N	12.0	2.6	240	39	-0.31
400#N-200#N	-1.5	4.6	-64	117	-0.21
NEW 200#N	4.2	0.2	163	50	0.05
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	-105.5	9.7	-33.3	10.1	139.9
OLD 400#N	187.5	23.0	615.4	8.7	-30.0
400#N-200#N	-23.9	44.7	-19.9	29.0	-59.3
NEW 200#N	182.6	1.4	83.6	10.4	22.5
N+K ON CONT					
N+K ON TREAT					
NEW 200#K					

INSTALLATION ADJUSTED GROWTH

INSTALLATION 212

SWAMP CREEK

REGION: NORTHEAST OREGON

OWNERSHIP: BOISE CASCADE

LEGAL DESCRIPTION: T1N R45E SECTION 3

MERIDIAN: WILLAMETT

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	77 YEARS
TREES PER ACRE	137 TREES/ACRE
BASAL AREA	99.6 SQ. FEET/ACRE
TOTAL VOLUME	2475 CU. FEET/ACRE
CCF	110.9
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

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	5.0	4.6	167	179	9.24
200#N	NONE	5.1	5.8	164	184	9.20
400#N	NONE	4.7	4.7	161	164	9.25
200#N	200#N	5.5	5.5	172	173	9.28
400#N	200#N	4.0	4.7	151	165	9.26
0#N	N+K	5.9	6.6	203	226	9.33
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	1.2	-23	5	9.02
OLD 400#N	-0.3	0.1	-26	-15	9.01
400#N-200#N	-0.4	-1.1	-3	-20	9.01
NEW 200#N	-0.1	-0.1	-1	-5	9.01
N+K CN CONT	0.9	2.0	16	47	9.06
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	2.0	26.1	-12.3	2.8	8.3
OLD 400#N	-6.0	2.2	-13.9	-8.4	4.2
400#N-200#N	-7.8	-19.0	-1.3	-10.9	-3.8
NEW 200#N	-3.1	-2.9	-0.6	-2.9	5.9
N+K CN CONT	18.0	43.5	8.6	26.3	23.0
N+K CN TREAT	.	.	.	.	.
NEW 200#K	.	.	.	.	.

## INSTALLATION ADJUSTED GROWTH

INSTALLATION 213

KAMELA

REGION: NORTHEAST OREGON

OWNERSHIP: BOISE CASCADE

LEGAL DESCRIPTION: T2S R35E SECTION 3

MERIDIAN: WILLAMETTE

## STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	107 YEARS
TREES PER ACRE	107 TREES/ACRE
BASAL AREA	99.6 SQ. FEET/ACRE
TOTAL VOLUME	3222 CU. FEET/ACRE
CCF	57.4
RELATIVE DENSITY INDEX	27.5
MEAN DIAMETER	13.1 INCHES

## 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	2.6	2.5	119	110	0.16
200#N	NONE	11.9	3.6	451	147	0.38
400#N	NONE	4.9	3.6	219	172	0.13
200#N	200#N	.	.	.	.	.
400#N	200#N	.	.	.	.	.
0#N	N+K	6.5	5.0	249	203	0.38
200#N	N+K	5.7	5.2	236	223	0.32
400#N	N+K	5.3	5.7	225	220	0.35

EFFECT		TWO YEAR ABSOLUTE RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		9.3	1.1	332	31	0.22
OLD 400#N		2.3	1.1	100	56	-0.03
400#N-200#N		-7.0	0.0	-232	25	-0.25
NEW 200#N		.	.	.	.	.
N+K CN CONT		3.9	2.5	130	87	0.22
N+K CN TREAT		-2.6	1.9	-105	62	0.06
NEW 200#K		.	.	.	.	.

EFFECT		TWO YEAR PERCENT RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		357.7	44.0	279.0	26.7	137.5
OLD 400#N		88.5	44.0	84.0	48.3	-13.7
400#N-200#N		-58.8	0.0	-51.4	17.0	-65.8
NEW 200#N		.	.	.	.	.
N+K CN CONT		150.0	100.0	109.2	75.0	137.5
N+K CN TREAT		-31.5	51.4	-31.2	38.9	31.4
NEW 200#K		.	.	.	.	.



## INSTALLATION ADJUSTED GROWTH

INSTALLATION 214

FIFTEENMILE CREEK

REGION: NORTHEAST WASHINGTON OWNERSHIP: JSE CASCALE  
 LEGAL DESCRIPTION: T39N R37E SECTION 25 PERIODIAN: 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	3089 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	7.8	8.0	281	286	0.36
200#N	NGNE	7.1	6.8	272	264	0.29
400#N	NONE	7.9	8.8	298	296	0.49
200#N	200#N	10.7	10.5	356	357	0.38
400#N	200#N	9.0	9.0	301	299	0.37
0#N	N+K	10.1	10.0	338	336	0.47
200#N	N+K	.	.	.	.	.
400#N	N+K	.	.	.	.	.

EFFECT		TWO YEAR ABSOLUTE RESPONSE/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
CLD	200#N	-0.7	-1.2	-9	-22	-0.07
GLD	400#N	0.1	0.8	7	10	0.13
400#N	200#N	0.8	2.0	16	32	0.20
NEW	200#N	2.3	2.0	49	43	-0.01
N+K	ON CNT	2.3	2.0	57	50	0.11
N+K	CN TREAT	.	.	.	.	.
NEW	200#K	.	.	.	.	.

EFFECT		TWO YEAR PERCENT RESPONSE/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
CLD	200#N	-9.0	-15.0	-3.2	-7.7	-19.4
GLD	400#N	1.3	10.0	2.5	3.5	30.1
400#N	200#N	11.3	29.4	5.9	12.1	69.0
NEW	200#N	31.3	25.0	17.3	17.1	-3.8
N+K	ON CNT	29.5	25.0	20.3	17.5	30.6
N+K	CN TREAT	.	.	.	.	.
NEW	200#K	.	.	.	.	.

## INSTALLATION ADJUSTED GROWTH

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	126.7
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	8.2	8.4	265	270	0.35
200#N	NONE	10.6	7.9	339	261	0.33
400#N	NONE	.	.	.	.	.
200#N	200#N	4.2	8.8	171	282	0.41
400#N	200#N	8.8	7.8	300	277	0.26
0#N	N+K	7.2	8.5	229	270	0.38
200#N	N+K	.	.	.	.	.
400#N	N+K	8.3	8.3	285	287	0.43

EFFECT		TWO YEAR ABSOLUTE RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		2.4	-0.5	74	-9	-0.02
OLD 400#N		.	.	.	.	.
400#N-200#N		.	.	.	.	.
NEW 200#N		-6.4	0.9	-168	21	0.06
N+K CN CONT		-1.0	0.1	-36	0	0.03
N+K CN TREAT		-0.5	0.7	-15	10	0.17

EFFECT		TWO YEAR PERCENT RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		29.3	-6.0	27.9	-3.3	-5.7
OLD 400#N		.	.	.	.	.
400#N-200#N		.	.	.	.	.
NEW 200#N		-60.4	11.4	-49.6	8.0	24.2
N+K CN CONT		-12.2	1.2	-13.6	0.0	8.6
N+K CN TREAT		-5.7	9.2	-5.0	3.6	65.4

INSTALLATION ADJUSTED GROWTH

INSTALLATION 216

SCHMIDT MEADOWS

REGION: NORTHEAST WASHINGTON

OWNERSHIP: BOISE CASUALTY

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	1539 CU. FEET/ACRE
CCF	176.0
RELATIVE DENSITY INDEX	48.3
MEAN DIAMETER	10.0 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	5.0	4.7	233	222	0.16
200#N	NONE	4.0	4.2	224	229	0.15
400#N	NONE	-2.2	5.6	0	228	0.25
200#N	200#N	.	.	.	.	.
400#N	200#N	.	.	.	.	.
0#N	N+K	7.0	6.2	311	289	0.19
200#N	N+K	5.8	6.7	305	326	0.23
400#N	N+K	1.2	5.8	140	262	0.30

EFFECT		TWO YEAR ABSOLUTE RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		-1.0	-0.5	-9	7	-0.01
OLD 400#N		-7.2	0.9	-227	6	0.09
400#N-200#N		-6.2	1.4	-218	-1	0.10
NEW 200#N		.	.	.	.	.
N+K ON CONT		2.0	1.5	78	67	0.03
N+K ON TREAT		2.6	1.3	111	66	0.06
NEW 200#K		.	.	.	.	.

EFFECT		TWO YEAR PERCENT RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		-20.0	-10.6	-3.9	3.2	-6.2
OLD 400#N		-144.0	19.1	-97.4	2.7	56.3
400#N-200#N		-155.0	33.3	-97.3	-0.4	66.7
NEW 200#N		.	.	.	.	.
N+K ON CONT		40.0	31.9	33.5	30.2	18.7
N+K ON TREAT		288.9	27.6	56.1	29.7	32.5
NEW 200#K		.	.	.	.	.

## INSTALLATION ADJUSTED GROWTH

INSTALLATION 217

EMANUEL CREEK

REGION: NORTHEAST WASHINGTON      OWNERSHIP: HOUSE 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	3606 CU. FEET/ACRE
CCF	153.9
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	3.6	3.4	192	186	0.12
200#N	NONE	5.4	5.0	208	197	0.13
400#N	NONE	6.7	6.1	252	238	0.23
200#N	200#N	.	.	.	.	.
400#N	200#N	.	.	.	.	.
0#N	N+K	7.7	6.1	298	250	0.24
200#N	N+K	5.7	7.3	240	286	0.33
400#N	N+K	4.2	4.4	233	239	0.21

TWO YEAR ABSOLUTE RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	1.8	1.6	10	11	0.06
OLD 400#N	3.1	2.7	60	52	0.11
400#N-200#N	1.3	1.1	44	41	0.05
NEW 200#N	.	.	.	.	.
N+K ON CGNT	4.1	2.7	106	64	0.12
N+K ON TREAT	-1.1	0.3	10	45	0.06
NEW 200#K	.	.	.	.	.

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	50.0	47.1	8.3	5.9	50.0
OLD 400#N	86.1	79.4	31.3	28.0	91.7
400#N-200#N	24.1	22.0	21.2	20.8	27.8
NEW 200#N	.	.	.	.	.
N+K ON CGNT	113.9	73.4	55.2	34.4	100.0
N+K ON TREAT	-18.2	5.4	4.1	20.7	31.7
NEW 200#K	.	.	.	.	.

INSTALLATION ADJUSTED GROWTH  
 INSTALLATION 218 SECOND CREEK

REGION: NORTHEAST WASHINGTON MEMBERSHIP: ECLISE CASCADE  
 LEGAL DESCRIPTION: T39N R34E SECTION 13 MERIDIAN: WILLAMETTE

STAND CHARACTERISTICS AT TIME OF RETIREMENT:

AGE	106 YEARS
TREES PER ACRE	152 TREES/ACRE
BASAL AREA	120.2 SQ.FEET/ACRE
TOTAL VOLUME	13032 CU.FEET/ACRE
CCF	134.6
RELATIVE DENSITY INDEX	12.1 INCHES
MEAN DIAMETER	

GROWTH IN 2 YEARS FOLLOWING RETIREMENT:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON  
 BASAL AREA OF 120.2 SQ.FEET/ACRE

TREATMENTS		1 MU YEAR GROWTH/ACRE				
GLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	-7.8	4.2	-125	124	0.72
200#N	NONE	5.3	3.6	101	132	0.17
400#N	NONE	5.1	5.1	178	178	0.26
200#N	200#N	4.0	4.0	139	136	0.22
400#N	200#N	3.6	4.5	147	166	0.24
0#N	N+K	7.3	0.0	256	216	0.31
200#N	N+K	.	.	.	.	.
400#N	N+K	.	.	.	.	.

EFFECT		1 MU YEAR ABSOLUTE RESPONSE/ACRE				
GLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
GLD 200#N	400#N	10.9	-0.6	226	8	-0.55
GLD 400#N	-200#N	12.9	1.9	363	54	-0.44
400#N-200#N	200#N	2.0	-0.1	77	46	0.05
NEW 200#N	200#N	0.0	1.1	4	-4	0.03
N+K ON TREAT	ON TREAT	15.1	1.8	381	52	-0.41
N+K ON TREAT	NEW 200#K	.	.	.	.	.

EFFECT		1 MU YEAR PERCENT RESPONSE/ACRE				
GLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
GLD 200#N	400#N	132.1	-14.3	180.8	6.5	-16.4
GLD 400#N	-200#N	165.4	41.4	242.4	43.5	-63.9
400#N-200#N	200#N	104.0	41.7	76.2	31.8	-32.9
NEW 200#N	200#N	0.0	-2.3	2.5	-2.6	16.3
N+K ON TREAT	ON TREAT	193.6	42.9	304.8	74.2	-36.9
N+K ON TREAT	NEW 200#K	.	.	.	.	.

INSTALLATION ADJUSTED GROWTH

INSTALLATION 219

LITTLE SALMON

REGION: CENTRAL IDAHO

OWNERSHIP: BLISE CASLAGE

LEGAL DESCRIPTION: T18N R1E

SECTION 13

MERIDIAN: BLISE

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	5.3	6.7	192	233	0.24
200#N	NONE	.	.	.	.	.
400#N	NONE	8.2	7.2	300	273	0.23
200#N	200#N	7.2	7.5	292	291	0.29
400#N	200#N	2.1	3.4	179	251	0.40
0#N	N+K	8.2	7.6	277	259	0.25
200#N	N+K	9.1	6.9	278	274	0.30
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	2.9	0.5	100	40	-0.01
400#N-200#N	-6.1	1.2	-121	18	0.23
NEW 200#N	2.9	0.9	85	25	0.01
N+K CN CONT	.	.	.	.	.
N+K CN TREAT	1.9	1.4	-4	-17	0.01
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	54.7	7.5	50.3	17.2	-4.2
400#N-200#N	-74.4	16.7	-40.3	6.6	100.0
NEW 200#N	54.7	13.4	44.3	10.7	4.2
N+K CN CONT	.	.	.	.	.
N+K CN TREAT	26.4	18.7	-1.4	-5.3	3.4
NEW 200#K	.	.	.	.	.

INSTALLATION ADJUSTED GROWTH

INSTALLATION 220

GROOSE CREEK

REGION: CENTRAL IDAHO

OWNERSHIP: IDL

LEGAL DESCRIPTION: T16N R4E SECTION 30

MERIDIAN: BCISE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	35 YEARS
TREES PER ACRE	262 TREES/ACRE
BASAL AREA	121.7 SQ.FEET/ACRE
TOTAL VOLUME	3003 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
J#N	NJNE	5.9	5.8	159	158	0.23
200#N	NJNE	5.5	4.3	170	138	0.19
400#N	NONE	3.8	5.7	145	142	0.20
200#N	200#N	8.3	8.2	279	280	0.34
400#N	200#N	3.8	5.6	147	174	0.37
0#N	N+K	-0.8	0.8	-49	178	0.13
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		-0.4	-1.5	11	-20	-0.04
OLD 400#N		-0.1	-0.1	-14	-16	-0.03
400#N-200#N		0.3	1.4	-25	4	0.01
NEW 200#N		0.4	1.9	56	87	0.16
N+K CN CONT		-6.7	1.0	-208	20	-0.10
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		-6.8	-25.5	0.4	-12.7	-17.4
OLD 400#N		-1.7	-1.7	-8.8	-10.1	-13.0
400#N-200#N		5.5	32.6	-14.7	2.9	5.3
NEW 200#N		7.1	38.0	35.2	62.1	82.1
N+K CN CONT		-113.6	17.2	-130.8	12.7	-43.5
N+K CN TREAT		.	.	.	.	.
NEW 200#K		.	.	.	.	.

## INSTALLATION ADJUSTED GROWTH

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	176 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	8.2	7.2	250	262	0.27
200#N	NONE	7.5	9.8	264	329	0.43
400#N	NONE	9.3	9.5	298	303	0.37
200#N	200#N	9.3	9.2	285	283	0.40
400#N	200#N	-4.4	7.1	-112	239	0.30
0#N	N+K	9.3	7.5	333	277	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	-0.7	2.6	-20	67	0.16
OLD 400#N	1.1	2.3	8	41	0.10
400#N-200#N	1.8	-0.3	34	-26	-0.06
NEW 200#N	-5.9	-1.5	-155	-55	-0.05
N+K CN CONT	1.1	0.3	43	15	0.08
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	-8.5	36.1	-9.0	25.6	54.3
OLD 400#N	13.4	31.9	2.8	15.6	37.0
400#N-200#N	24.0	-3.1	12.9	-7.9	-14.0
NEW 200#N	-70.8	-15.5	-69.2	-17.4	-12.5
N+K CN CONT	13.4	4.2	14.0	5.7	29.6
N+K CN TREAT	.	.	.	.	.
NEW 200#K	.	.	.	.	.



INSTALLATION ADJUSTED GROWTH

INSTALLATION 222

WEST MILL CREEK #1

REGION: CENTRAL IDAHO

OWNERSHIP: ICL

LEGAL DESCRIPTION: T18N R3W

SECTION 35

MERIDIAN: BCISE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	17 YEARS
TREES PER ACRE	353 TREES/ACRE
BASAL AREA	103.4 SQ. FEET/ACRE
TOTAL VOLUME	395.3 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	4.2	5.0	162	186	0.13
200#N	NONE	2.4	4.3	56	150	0.13
400#N	NONE	.	.	.	.	.
200#N	200#N	.	.	.	.	.
400#N	200#N	3.3	4.5	103	125	0.18
0#N	N+K	7.3	5.9	227	167	0.15
200#N	N+K	4.4	4.9	164	175	0.15
400#N	N+K	5.8	5.6	239	234	0.19

EFFECT		TWO YEAR ABSOLUTE RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		-1.8	-0.7	-66	-36	0.00
OLD 400#N		.	.	.	.	.
400#N-200#N		.	.	.	.	.
NEW 200#N		.	.	.	.	.
N+K CN CONT		3.1	0.9	65	1	0.02
N+K CN TREAT		2.0	0.6	68	25	0.02
NEW 200#K		2.5	1.1	136	109	0.01

EFFECT		TWO YEAR PERCENT RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		-42.9	-14.0	-40.7	-19.4	0.0
OLD 400#N		.	.	.	.	.
400#N-200#N		.	.	.	.	.
NEW 200#N		.	.	.	.	.
N+K CN CONT		73.8	18.0	40.1	0.5	15.4
N+K CN TREAT		83.3	14.0	70.8	16.7	15.4
NEW 200#K		75.8	24.4	132.0	87.2	5.6

## INSTALLATION ADJUSTED GROWTH

INSTALLATION 223

WEST MILL CREEK #2

REGION: CENTRAL IDAHO

OWNERSHIP: IDL

LEGAL DESCRIPTION: T12N R3W SECTION 36

MERIDIAN: BCISC

## 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	41.8
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	NO#E	6.0	6.1	207	210	0.21
200#N	NO#E	3.2	5.3	127	187	0.13
400#N	NONE	-2.3	5.2	-36	213	0.13
200#N	200#N	.	.	.	.	.
400#N	200#N	.	.	.	.	.
0#N	N+K	5.1	5.0	203	170	0.24
200#N	N+K	8.3	7.8	299	287	0.29
400#N	N+K	4.3	4.0	154	162	0.16

TWO YEAR ABSOLUTE RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	-2.8	-0.8	-80	-23	-0.03
OLD 400#N	-8.3	-0.9	-243	3	-0.06
400#N-200#N	-5.5	-0.1	-163	26	-0.05
NEW 200#N	.	.	.	.	.
N+K ON CONT	0.1	-1.1	-4	-40	0.03
N+K ON TREAT	5.8	0.9	181	25	0.07
NEW 200#K	.	.	.	.	.

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	-46.7	-13.1	-34.6	-11.0	-14.3
OLD 400#N	-138.3	-14.8	-117.4	1.4	-38.1
400#N-200#N	-171.9	-1.9	-128.3	13.9	-27.8
NEW 200#N	.	.	.	.	.
N+K ON CONT	1.7	-18.0	-1.9	-19.0	14.3
N+K ON TREAT	1300.0	18.1	397.8	12.3	45.2
NEW 200#K	.	.	.	.	.

## INSTALLATION ADJUSTED GROWTH

INSTALLATION 224

KAISER BUTTE #1

REGION: CENTRAL WASHINGTON

OWNERSHIP: BOISE CASCADE

LEGAL DESCRIPTION: T6N R15E SECTION 20

MERIDIANS: WILLAMETTE

## STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	80 YEARS
TREES PER ACRE	101 TREES/ACRE
BASAL AREA	167.2 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 167.2 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	6.3	8.1	304	360	0.43
200#N	NONE	11.6	9.7	500	442	0.40
400#N	NONE	8.1	6.9	371	337	0.33
200#N	200#N	10.3	10.1	454	447	0.44
400#N	200#N	7.5	8.0	361	377	0.43
0#N	N+K	8.7	9.0	411	418	0.44
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	5.3	1.6	156	62	-0.03
OLD 400#N	1.8	-1.2	67	-23	-0.10
400#N-200#N	-3.5	-2.8	-129	-103	-0.07
NEW 200#N	-1.0	0.7	-28	23	0.07
N+K ON CONT	2.4	0.9	107	58	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	84.1	19.8	64.5	22.8	-7.0
OLD 400#N	28.6	-14.8	22.0	-6.4	-23.3
400#N-200#N	-30.2	-28.9	-25.8	-23.8	-17.5
NEW 200#N	-9.6	9.0	-6.4	5.8	19.2
N+K ON CONT	38.1	11.1	35.2	16.1	2.3
N+K ON TREAT	.	.	.	.	.
NEW 200#K	.	.	.	.	.

INSTALLATION ADJUSTED GROWTH

INSTALLATION 225

BOWMAN CREEK

REGION: CENTRAL WASHINGTON

OWNERSHIP: BOISE CASCADE

LEGAL DESCRIPTION: T5N R15E SECTION 13

MERIDIAN: WILLAMETTE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	91 YEARS
TREES PER ACRE	160 TREES/ACRE
BASAL AREA	142.4 SQ.FEET/ACRE
TOTAL VOLUME	3948 CU.FEET/ACRE
CCF	143.4
RELATIVE DENSITY INDEX	39.8
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
J#N	NONE	6.6	7.4	261	284	0.32
200#N	NONE	7.6	7.4	295	290	0.32
400#N	NONE	8.8	7.6	315	279	0.32
200#N	200#N	8.5	8.8	363	372	0.37
400#N	200#N	8.4	8.7	336	342	0.40
0#N	N+K	9.2	9.4	343	349	0.41
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	1.0	0.0	34	6	0.00
OLD 400#N	.	.	.	.	.
400#N-200#N	.	.	.	.	.
NEW 200#N	1.9	1.4	102	83	0.07
N+K ON CNT	1.6	2.0	48	59	0.05
N+K ON TREAT	-0.4	1.1	21	63	0.02
NEW 200#K					

EFFECT	TWO YEAR PERCENT RESPONSE/ACRE				
	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	15.2	0.0	13.0	2.1	0.0
OLD 400#N	.	.	.	.	.
400#N-200#N	.	.	.	.	.
NEW 200#N	28.8	18.9	39.1	31.0	21.9
N+K ON CNT	21.1	27.0	16.3	20.3	29.1
N+K ON TREAT	-4.5	14.5	6.7	22.6	25.0
NEW 200#K					

## INSTALLATION ADJUSTED GROWTH

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	25 YEARS
TREES PER ACRE	132 TREES/ACRE
BASAL AREA	110.6 SQ.FEET/ACRE
TOTAL VOLUME	2788 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	4.9	4.7	180	174	0.27
200#N	NONE	5.9	5.2	193	172	0.29
400#N	NONE	6.0	5.9	200	194	0.30
200#N	200#N	.	.	.	.	.
400#N	200#N	.	.	.	.	.
0#N	N+K	6.2	6.2	206	207	0.35
200#N	N+K	5.7	5.6	189	167	0.33
400#N	N+K	6.8	6.9	223	224	0.36

EFFECT		TWO YEAR ABSOLUTE RESPONSE/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		1.0	0.5	13	-2	0.02
OLD 400#N		1.1	1.2	20	20	0.03
400#N-200#N		0.1	0.7	7	22	0.01
NEW 200#N		.	.	.	.	.
N+K CN CONT		1.3	1.5	26	33	0.06
N+K CN TREAT		0.3	0.7	10	23	0.05
NEW 200#K		.	.	.	.	.

EFFECT		TWO YEAR PERCENT RESPONSE/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		20.4	10.6	7.2	-1.1	7.4
OLD 400#N		22.4	25.5	11.1	11.5	11.1
400#N-200#N		1.7	13.5	3.6	12.8	3.4
NEW 200#N		.	.	.	.	.
N+K CN CONT		26.5	31.9	14.4	19.0	29.6
N+K CN TREAT		5.0	12.6	4.3	12.3	16.9
NEW 200#K		.	.	.	.	.

## INSTALLATION ADJUSTED GROWTH

INSTALLATION 227

JOHNSON CANYON

REGION: CENTRAL WASHINGTON

OWNERSHIP: GLISE CASCALE

LEGAL DESCRIPTION: 116N RISE 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 121.8 SQ. FEET/ACRE

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	3.6	4.0	168	190	0.23
200#N	NONE	4.8	4.3	173	159	0.24
400#N	NONE	.	.	.	.	.
200#N	200#N	.	.	.	.	.
400#N	200#N	5.3	4.5	206	169	0.24
0#N	N+K	3.8	5.3	165	209	0.25
200#N	N+K	7.4	6.1	260	230	0.29
400#N	N+K	4.0	4.7	175	176	0.24

TWO YEAR ABSOLUTE RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	1.2	-0.3	5	-31	0.01
OLD 400#N	.	.	.	.	.
400#N-200#N	.	.	.	.	.
NEW 200#N	.	.	.	.	.
N+K ON CONT	0.2	0.7	-3	19	0.02
N+K ON TREAT	2.6	1.8	87	71	0.05
NEW 200#K	-0.7	0.2	-31	-13	0.00

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	33.3	-6.5	3.0	-16.3	4.3
OLD 400#N	.	.	.	.	.
400#N-200#N	.	.	.	.	.
NEW 200#N	.	.	.	.	.
N+K ON CONT	5.6	15.2	-1.8	10.0	8.7
N+K ON TREAT	54.2	41.9	50.3	44.7	20.3
NEW 200#K	-13.2	4.4	-15.0	-6.9	0.0

## INSTALLATION ADJUSTED GROWTH

INSTALLATION 228

LOCKOUT MTN WEST

REGION: CENTRAL WASHINGTON

OWNERSHIP: WASHINGTON DNR

LEGAL DESCRIPTION: T20N R16E SECTION 36

MERIDIANS: 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	45.3
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	5.1	5.9	180	204	0.22
200#N	NONE	5.0	5.5	222	236	0.25
400#N	NONE	-4.4	0.3	-24	279	0.27
200#N	200#N					
400#N	200#N					
0#N	N+K	-42.0	5.8	-1208	231	1.08
200#N	N+K	-2.9	5.4	63	263	0.34
400#N	N+K	8.1	6.9	283	259	0.23

EFFECT		TWO YEAR ABSOLUTE RESPONSE/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
CLD 200#N						
CLD 400#N		-0.1	-0.4	42	32	0.03
400#N-200#N		.	.	.	.	.
NEW 200#N						
N+K CN CNT		-47.1	-0.1	-1386	27	0.86
N+K CN TREAT		3.1	1.4	61	23	-0.02
NEW 200#K		1.5	-1.4	47	-15	0.07

EFFECT		TWO YEAR PERCENT RESPONSE/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
CLD 200#N						
CLD 400#N		-2.0	-6.8	23.3	15.7	13.6
400#N-200#N		.	.	.	.	.
NEW 200#N						
N+K CN CNT		-923.5	-1.7	-771.1	13.2	390.3
N+K CN TREAT		62.0	25.5	27.5	9.7	-8.0
NEW 200#K		34.1	-20.6	195.8	-5.4	25.9

INSTALLATION ADJUSTED GROWTH

INSTALLATION 229

LOOKCUT 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	115 TREES/ACRE
BASAL AREA	155.9 SQ. FEET/ACRE
TOTAL VOLUME	5254 CU. FEET/ACRE
CCF	143.4
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		1st YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	6.5	6.6	314	317	0.30
200#N	NONE	8.9	8.7	330	327	0.41
400#N	NONE	6.4	6.8	291	304	0.33
200#N	200#N	7.5	7.6	343	347	0.37
400#N	200#N	7.1	7.3	316	322	0.36
0#N	N+K	6.6	6.1	261	270	0.32
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	2.1	16	10	0.05
OLD 400#N					
400#N-200#N	-1.4	-1.1	15	20	-0.04
NEW 200#N	0.6	0.7	2	5	0.00
N+K ON CONT	0.2	-0.7	-10	-34	-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	36.9	31.8	5.1	3.2	13.9
OLD 400#N					
400#N-200#N	-15.7	-12.6	4.5	6.1	-9.8
NEW 200#N	9.2	10.6	0.6	1.6	0.0
N+K ON CONT	3.1	-10.3	-3.4	-11.2	-3.0
N+K ON TREAT					
NEW 200#K					



INSTALLATION ADJUSTED GROWTH

INSTALLATION 230

M.F. TEANAWAY RIVER

REGION: CENTRAL WASHINGTON

OWNERSHIP: BOISE CASCADE

LEGAL DESCRIPTION: T21N R15E SECTION 20

MERIDIAN: WILLAMETTE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	87 YEARS
TREES PER ACRE	127 TREES/ACRE
BASAL AREA	151.4 SQ. FEET/ACRE
TOTAL VOLUME	5182 CU. FEET/ACRE
CCF	138.9
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	8.9	9.3	408	420	0.41
200#N	NONE	9.3	9.2	449	443	0.47
400#N	NONE					
200#N	200#N	12.2	12.3	539	541	0.53
400#N	200#N	13.6	13.0	581	564	0.50
0#N	N+K	9.5	9.2	450	441	0.48
200#N	N+K					
400#N	N+K	9.7	9.9	436	440	0.50

EFFECT	TWO YEAR ABSOLUTE RESPONSE/ACRE				
	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	0.4	-0.1	41	23	0.06
OLD 400#N	.	.	.	.	.
400#N-200#N	.	.	.	.	.
NEW 200#N	2.9	3.1	90	98	0.06
N+K ON CONT	0.6	-0.1	42	21	0.07
N+K CN TREAT					
NEW 200#K	-3.9	-3.1	-145	-124	0.00

EFFECT	TWO YEAR PERCENT RESPONSE/ACRE				
	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	4.5	-1.1	10.0	5.5	14.6
OLD 400#N	.	.	.	.	.
400#N-200#N	.	.	.	.	.
NEW 200#N	31.2	33.7	20.0	22.1	12.8
N+K ON CONT	6.7	-1.1	10.3	5.0	17.1
N+K CN TREAT					
NEW 200#K	-28.7	-23.8	-25.0	-22.0	0.0

INSTALLATION ADJUSTED GROWTH

ELMC

REGION: MONTANA  
 LEGAL DESCRIPTION: T24N R21W SEC11A 30  
 OWNERSHIP: FLATHEAD (PIA)  
 AGRICULTURAL: (PIA) PRINCIPAL

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE TREES PER ACRE 07 YEARS  
 BASAL AREA 168 INCHES/ACRE  
 TOTAL VOLUME 115.6 CU. FEET/ACRE  
 RELATIVE DENSITY INDEX 2834  
 MEAN DIAMETER 126.3  
 GROWTH IN 2 YEARS FOLLOWING RETREATMENT:  
 NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON BASAL AREA OF 115.6 SQ. FEET/ACRE

TREATMENTS

NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0.1	3.8	20	142	0.17
-0.1	4.0	109	165	0.22
-0.3	4.0	25	146	0.35
0.0#N	0.0#N	0.0#N	0.0#N	0.0#N
200#N	200#N	200#N	200#N	200#N
400#N	400#N	400#N	400#N	400#N
N+K	N+K	N+K	N+K	N+K

TWO YEAR GROWTH/ACRE

NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
2.8	1.0	59	27	0.05
-0.7	0.2	-25	4	0.16
-3.5	-0.8	-84	-23	0.18
0.0#N	0.0#N	0.0#N	0.0#N	0.0#N
400#N-200#N	400#N-200#N	400#N-200#N	400#N-200#N	400#N-200#N
N+K ON CONT	N+K ON CONT	N+K ON CONT	N+K ON CONT	N+K ON CONT
N+K CN TREAT	N+K CN TREAT	N+K CN TREAT	N+K CN TREAT	N+K CN TREAT
NEW 200#K	NEW 200#K	NEW 200#K	NEW 200#K	NEW 200#K

TWO YEAR ABSOLUTE RESPONSE/ACRE

NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
2800.0	26.3	114.0	19.0	23.4
-1700.0	5.3	-50.0	2.8	105.5
-129.6	-16.7	-77.1	-13.0	59.1
0.0#N	0.0#N	0.0#N	0.0#N	0.0#N
400#N-200#N	400#N-200#N	400#N-200#N	400#N-200#N	400#N-200#N
N+K ON CONT	N+K ON CONT	N+K ON CONT	N+K ON CONT	N+K ON CONT
N+K CN TREAT	N+K CN TREAT	N+K CN TREAT	N+K CN TREAT	N+K CN TREAT
NEW 200#K	NEW 200#K	NEW 200#K	NEW 200#K	NEW 200#K

TWO YEAR PERCENT RESPONSE/ACRE

## INSTALLATION ADJUSTED GROWTH

INSTALLATION 232

SUNNY SLOPE

REGION: MONTANA

OWNERSHIP: FLATHEAD (BIA)

LEGAL DESCRIPTION: T23N R21W SECTION 12

MERIDIAN: PRINCIPAL

## STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	60 YEARS
TREES PER ACRE	195 TREES/ACRE
BASAL AREA	164.5 SQ.FEET/ACRE
TOTAL VOLUME	474.0 CU.FEET/ACRE
CCF	170.4
RELATIVE DENSITY INDEX	46.6
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	7.4	7.3	314	310	0.26
200#N	NONE	7.4	7.5	329	332	0.28
400#N	NONE	6.9	7.2	295	303	0.29
200#N	200#N	9.7	9.1	407	389	0.30
400#N	200#N	9.9	9.2	422	403	0.35
0#N	N+K	5.9	7.6	263	318	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	0.0	0.2	15	22	0.02
OLD 400#N	-0.5	-0.1	-17	-7	0.03
400#N-200#N	-0.5	-0.3	-34	-29	0.01
NEW 200#N	2.6	1.8	103	79	0.04
N+K ON CONT	-1.6	0.3	-51	3	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	0.0	2.7	4.8	7.1	7.7
OLD 400#N	-6.8	-1.4	-6.1	-2.3	11.5
400#N-200#N	-6.8	-4.0	-10.3	-8.7	3.6
NEW 200#N	37.1	24.5	32.9	24.7	14.0
N+K ON CONT	-21.6	4.1	-16.2	2.6	3.8
N+K ON TREAT	.	.	.	.	.
NEW 200#K	.	.	.	.	.

INSTALLATION ADJUSTED GROWTH

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	4.8	5.4	240	258	0.22
200#N	NONE	6.0	5.7	298	288	0.23
400#N	NONE	6.2	6.3	256	258	0.26
200#N	200#N	.	.	.	.	.
400#N	200#N	.	.	.	.	.
0#N	N+K	9.7	8.1	431	385	0.25
200#N	N+K	7.4	7.8	344	353	0.30
400#N	N+K	7.2	7.5	308	313	0.30

EFFECT		TWO YEAR ABSOLUTE RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		1.2	0.3	58	50	0.01
OLD 400#N		1.4	0.9	16	0	0.04
400#N-200#N		0.2	0.6	-42	-50	0.03
NEW 200#N		.	.	.	.	.
N+K ON CONT		4.9	2.7	191	127	0.03
N+K ON TREAT		1.2	1.6	49	60	0.05
NEW 200#K		.	.	.	.	.

EFFECT		TWO YEAR PERCENT RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		25.0	5.6	24.2	11.6	4.5
OLD 400#N		29.2	16.7	6.7	0.0	18.2
400#N-200#N		3.3	10.5	-14.1	-10.4	13.0
NEW 200#N		.	.	.	.	.
N+K ON CONT		102.1	50.0	79.6	49.2	13.6
N+K ON TREAT		19.7	27.5	17.7	22.0	22.4
NEW 200#K		.	.	.	.	.

INSTALLATION ADJUSTED GROWTH

INSTALLATION 234

RUNAN

REGION: MONTANA

OWNERSHIP: FLATHEAD (BIA)

LEGAL DESCRIPTION: T20N 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	134.1
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				
JLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	5.7	5.2	271	255	0.20
200#N	NONE	5.1	4.5	258	242	0.17
400#N	NONE	.	.	.	.	.
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	-0.6	-0.7	-13	-13	-0.03
OLD 400#N	.	.	.	.	.
400#N-200#N	.	.	.	.	.
NEW 200#N	.	.	.	.	.
N+K CN CONT	.	.	.	.	.
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	-10.5	-13.5	-4.8	-5.1	-15.0
OLD 400#N	.	.	.	.	.
400#N-200#N	.	.	.	.	.
NEW 200#N	.	.	.	.	.
N+K ON CONT	.	.	.	.	.
N+K CN TREAT	.	.	.	.	.
NEW 200#K	.	.	.	.	.

INSTALLATION ADJUSTED GROWTH

INSTALLATION 235

FISH CREEK

REGION: MONTANA

OWNERSHIP: CHAMPION

LEGAL DESCRIPTION: T14N R24W SECTION 5

MERIDIAN: PRINCIPAL

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	60 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	6.6 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
J#N	NONE	3.4	5.2	151	167	0.36
200#N	NONE	0.4	5.6	203	179	0.19
400#N	NONE	-1.2	0.6	33	201	0.43
200#N	200#N	5.9	5.9	211	210	0.21
400#N	200#N	2.6	6.6	104	202	0.17
0#N	N+K	6.5	6.6	216	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	3.0	0.4	52	-8	-0.18
OLD 400#N	-4.6	1.4	-118	14	0.12
400#N-200#N	-7.6	1.0	-170	22	0.30
NEW 200#N	1.6	0.2	40	16	-0.13
N+K ON CONT	3.1	1.4	65	30	-0.15
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	88.2	7.7	34.4	-4.3	-50.0
OLD 400#N	-135.3	26.9	-78.1	7.5	33.3
400#N-200#N	-118.7	17.9	-83.7	12.3	106.7
NEW 200#N	63.5	2.5	33.5	8.4	-39.4
N+K ON CONT	91.2	26.9	43.0	16.0	-41.7
N+K ON TREAT	.	.	.	.	.
NEW 200#K	.	.	.	.	.

## INSTALLATION ADJUSTED GROWTH

INSTALLATION 236

DEER CREEK

REGION: MONTANA

OWNERSHIP: CHAMPION

LEGAL DESCRIPTION: T13N R16W SECTION 20

MERIDIAN: PRINCIPAL

## STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	86 YEARS
TREES PER ACRE	293 TREES/ACRE
BAJAL AREA	180.0 SQ. FEET/ACRE
TOTAL VOLUME	4838 CU. FEET/ACRE
CCF	159.6
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	2.3	4.7	125	180	0.25
200#N	NONE	3.2	4.1	155	159	0.20
400#N	NONE	-7.2	4.0	-130	142	0.56
200#N	200#N	.	.	.	.	.
400#N	200#N	.	.	.	.	.
0#N	N+K	3.9	4.6	202	211	0.38
200#N	N+K	-5.4	3.6	-60	158	0.51
400#N	N+K	4.3	5.3	203	225	0.14

EFFECT		TWO YEAR ABSOLUTE RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		0.9	-0.6	30	-21	-0.05
OLD 400#N		-9.5	-0.7	-255	-38	0.31
400#N-200#N		-10.4	-0.1	-285	-17	0.36
NEW 200#N		.	.	.	.	.
N+K CN CONT		1.6	-0.1	77	31	0.13
N+K CN TREAT		1.4	0.4	59	41	-0.06
NEW 200#K		.	.	.	.	.

EFFECT		TWO YEAR PERCENT RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		39.1	-12.8	24.0	-11.7	-20.0
OLD 400#N		-413.0	-14.9	-204.0	-21.1	124.0
400#N-200#N		-325.0	-2.4	-183.9	-10.7	130.0
NEW 200#N		.	.	.	.	.
N+K CN CONT		69.6	-2.1	61.6	17.2	52.0
N+K CN TREAT		72.5	9.9	472.0	27.2	-14.5
NEW 200#K		.	.	.	.	.

## INSTALLATION ADJUSTED GROWTH

INSTALLATION 237

MULLET PARK

REGION: MONTANA

OWNERSHIP: CHAMPION

LEGAL DESCRIPTION: T15N R12W SECTION 9

MERIDIANS: PRINCIPAL

## STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	95 YEARS
TREES PER ACRE	228 TREES/ACRE
BASAL AREA	164.3 SQ. FEET/ACRE
TOTAL VOLUME	4043 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	0.6	5.2	237	189	0.17
200#N	NCNE	4.3	4.8	183	198	0.19
400#N	NONE	.	.	.	.	.
200#N	200#N	4.6	5.1	178	194	0.14
400#N	200#N	4.3	5.8	178	162	0.13
0#N	N+K	6.4	5.8	233	216	0.20
200#N	N+K	1.2	5.1	89	183	0.47
400#N	N+K					

EFFECT	TWO YEAR ABSOLUTE RESPONSE/ACRE				
	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	-2.3	-0.4	-54	9	0.02
OLD 400#N	.	.	.	.	.
400#N-200#N	.	.	.	.	.
NEW 200#N	0.3	0.3	-5	-4	-0.05
N+K ON CONT	-0.2	0.6	-4	27	0.03
N+K ON TREAT					
NEW 200#K	-3.1	1.3	-89	21	0.34

EFFECT	TWO YEAR PERCENT RESPONSE/ACRE				
	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	-34.8	-7.7	-22.8	4.8	11.8
OLD 400#N	.	.	.	.	.
400#N-200#N	.	.	.	.	.
NEW 200#N	7.0	6.3	-2.7	-2.0	-20.3
N+K ON CONT	-3.0	11.5	-1.7	14.3	17.0
N+K ON TREAT					
NEW 200#K	-72.1	34.2	-50.0	13.0	261.5



## INSTALLATION ADJUSTED GROWTH

INSTALLATION 238

BULLALO HILL 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	7.2	7.1	193	192	0.35
200#N	NONE	7.6	7.2	199	185	0.37
400#N	NONE	7.8	7.1	180	165	0.36
200#N	200#N	10.4	9.3	245	210	0.50
400#N	200#N	9.7	8.9	233	213	0.45
0#N	N+K	7.8	7.8	218	217	0.48

EFFECT		TWO YEAR ABSOLUTE RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		0.4	0.1	6	-7	0.02
OLD 400#N		.	.	.	.	.
400#N-200#N		.	.	.	.	.
NEW 200#N		3.2	2.2	52	18	0.15
N+K CN CONT		0.2	0.6	19	32	0.11
N+K CN TREAT		1.9	1.8	53	48	0.05

EFFECT		TWO YEAR PERCENT RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		5.6	1.4	3.1	-3.6	5.7
OLD 400#N		.	.	.	.	.
400#N-200#N		.	.	.	.	.
NEW 200#N		44.4	31.0	26.9	9.4	42.9
N+K ON CONT		2.6	8.3	9.5	17.3	29.7
N+K CN TREAT		24.4	25.4	29.4	29.1	25.0

INSTALLATION ADJUSTED GROWTH

INSTALLATION 239

WABA #2

REGION: NORTHEAST OREGON

OWNERSHIP: POTLATCH

LEGAL DESCRIPTION: T33N R4W

SECTION 10

MERIDIAN: BCISE

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 CC. 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	2.6	5.7	244	326	0.64
200#N	NONE	6.2	6.5	371	388	0.29
400#N	NONE	-4.2	4.2	-12	239	0.67
200#N	200#N	6.0	5.9	324	320	0.22
400#N	200#N	3.5	6.1	306	364	0.62
0#N	N+K	6.3	4.6	389	354	0.17

EFFECT	TWO YEAR ABSOLUTE RESPONSE/ACRE				
	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	3.6	0.8	127	54	-0.35
OLD 400#N	.	.	.	.	.
400#N-200#N	.	.	.	.	.
NEW 200#N	3.4	0.2	00	-6	-0.42
N+K ON CONT	0.1	-1.9	18	-26	-0.16
N+K ON TREAT	7.7	1.9	318	125	-0.05

EFFECT	TWO YEAR PERCENT RESPONSE/ACRE				
	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	138.5	14.0	52.0	16.6	-54.7
OLD 400#N	.	.	.	.	.
400#N-200#N	.	.	.	.	.
NEW 200#N	130.8	3.5	32.8	-1.8	-65.0
N+K ON CONT	1.6	-29.2	4.9	-6.6	-41.4
N+K ON TREAT	183.3	45.2	2650.0	52.3	-7.5

INSTALLATION ADJUSTED GROWTH

INSTALLATION 240

QUARTZ CREEK #1

REGION: NORTHERN IDAHO

CWNEKSHIP: POILATCH

LEGAL DESCRIPTION: T37N R5E SECTION 8 MERIDIAN: BCISE

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	213.9
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	12.3	12.5	549	553	0.36
200#N	NONE	4.5	14.8	281	524	0.49
400#N	NONE	17.1	13.1	885	507	0.22
200#N	200#N	.	.	.	.	.
400#N	200#N	.	.	.	.	.
0#N	N+K	16.9	15.8	545	617	0.32
200#N	N+K	14.8	14.8	670	876	0.39
400#N	N+K	13.5	13.0	565	607	0.51

EFFECT	TWO YEAR ABSOLUTE RESPONSE/ACRE				
	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	-7.8	2.3	-208	-34	0.13
OLD 400#N	4.8	0.6	136	9	-0.14
400#N-200#N	12.0	-1.7	404	43	-0.27
NEW 200#N	.	.	.	.	.
N+K CN CONT	4.6	3.3	96	59	-0.04
N+K ON TREAT	3.3	1.2	138	90	0.10
NEW 200#K	.	.	.	.	.

EFFECT	TWO YEAR PERCENT RESPONSE/ACRE				
	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	-63.4	18.4	-48.8	-6.1	36.1
OLD 400#N	39.0	4.8	24.8	1.6	-38.9
400#N-200#N	280.0	-11.5	141.8	8.2	-25.1
NEW 200#N	.	.	.	.	.
N+K CN CONT	37.4	26.4	17.5	10.6	-11.1
N+K ON TREAT	31.0	9.0	28.5	17.6	26.8
NEW 200#K	.	.	.	.	.

## INSTALLATION ADJUSTED GROWTH

INSTALLATION 241

WOODY MTR

REGION: CENTRAL WASHINGTON OWNERSHIP: WASHINGTON DNR  
 LEGAL DESCRIPTION: T33N R24E SECTION 9 MERIDIAN: WILLAMETTE

## STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	70 YEARS
TREES PER ACRE	275 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
J#N	NONE	5.2	6.7	201	239	U.24
200#N	NONE	4.8	5.6	198	210	U.33
400#N	NONE	3.2	7.0	147	247	U.22
200#N	200#N	-3.8	7.6	-34	248	U.18
400#N	200#N	5.7	10.1	223	334	U.25
0#N	N+K	7.0	8.4	262	304	U.25
200#N	N+K	.	.	.	.	.
400#N	N+K	.	.	.	.	.

EFFECT		TWO YEAR ABSOLUTE RESPONSE/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		-0.4	-1.1	-3	-29	U.09
OLD 400#N		-2.0	0.9	-54	8	-U.02
400#N-200#N		-1.6	2.0	-51	37	-U.11
NEW 200#N		-3.0	2.2	-78	63	-U.06
N+K CN CONT		1.9	1.7	61	65	U.01
N+K CN TREAT		.	.	.	.	.
NEW 200#K		.	.	.	.	.

EFFECT		TWO YEAR PERCENT RESPONSE/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		-7.7	-10.4	-1.5	-12.1	37.5
OLD 400#N		-38.5	13.4	-26.9	3.3	-8.1
400#N-200#N		-33.3	35.7	-25.8	17.6	-33.3
NEW 200#N		-76.2	34.1	-45.2	27.4	-21.8
N+K CN CONT		34.0	25.4	30.3	27.2	4.2
N+K CN TREAT		.	.	.	.	.
NEW 200#K		.	.	.	.	.

INSTALLATION ADJUSTED GROWTH

INSTALLATION 242

N.F. NINEMILE CREEK

REGION: CENTRAL WASHINGTON

OWNERSHIP: WASHINGTON CRR

LEGAL DESCRIPTION: T39N R24E SECTION 13

MERIDIAN: WILLAMETTE

STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	43 YEARS
TREES PER ACRE	427 TREES/ACRE
BASAL AREA	156.3 SQ.FEET/ACRE
TOTAL VOLUME	4019 CU.FEET/ACRE
CCF	199.7
RELATIVE DENSITY INDEX	54.0
MEAN 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
J#N	NONE	3.4	4.0	163	179	0.21
200#N	NONE	3.5	5.6	264	179	0.13
400#N	NONE	5.5	5.9	199	210	0.19
200#N	200#N	1.6	5.9	113	207	0.19
400#N	200#N	4.3	6.7	137	212	0.23
0#N	N+K	4.8	6.2	176	219	0.14
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	5.1	1.0	101	0	-0.08
OLD 400#N	2.1	1.3	36	31	-0.02
400#N-200#N	-3.0	0.3	-65	31	0.06
NEW 200#N	-4.1	0.6	-107	15	0.05
N+K CN CONT	1.4	1.6	13	40	-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	150.0	21.7	62.0	0.0	-38.1
OLD 400#N	61.8	28.3	22.1	17.3	-9.5
400#N-200#N	-35.3	5.4	-24.6	17.3	46.2
NEW 200#N	-57.9	9.6	-46.0	7.7	31.3
N+K CN CONT	41.2	34.8	8.0	22.3	-33.3
N+K CN TREAT	.	.	.	.	.
NEW 200#K	.	.	.	.	.

## INSTALLATION ADJUSTED GROWTH

INSTALLATION 243

STARVATION LAKE

REGION: NORTHEAST WASHINGTON

OWNERSHIP: WASHINGTON CNK

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
J#N	NONE	4.6	4.4	220	214	0.17
200#N	NONE	-0.9	4.5	56	193	0.27
400#N	NONE	.	.	.	.	.
200#N	200#N	.	.	.	.	.
400#N	200#N	5.1	4.9	228	221	0.15
0#N	N+K	2.4	4.7	158	231	0.12
200#N	N+K	5.7	5.3	252	242	0.20
400#N	N+K	-7.7	3.3	-143	184	0.39

TWO YEAR ABSOLUTE RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	-5.5	0.1	-164	-21	0.10
OLD 400#N	.	.	.	.	.
400#N-200#N	.	.	.	.	.
NEW 200#N	.	.	.	.	.
N+K CN CONT	-2.2	0.3	-62	17	-0.05
N+K CN TREAT	6.6	0.8	190	49	-0.07
NEW 200#K	-12.8	-1.6	-371	-37	0.24

TWO YEAR PERCENT RESPONSE/ACRE					
EFFECT	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N	-119.6	2.3	-74.5	-9.8	58.8
OLD 400#N	.	.	.	.	.
400#N-200#N	.	.	.	.	.
NEW 200#N	.	.	.	.	.
N+K CN CONT	-47.8	6.8	-28.2	7.5	-29.4
N+K CN TREAT	733.3	17.8	350.0	25.4	-25.9
NEW 200#K	-251.0	-32.7	-162.7	-16.7	160.0

## INSTALLATION ADJUSTED GROWTH

INSTALLATION 244

BIG LOCKCUT MTN #1

REGION: NORTHEAST OREGON

OWNERSHIP: SLM (OREGON)

LEGAL DESCRIPTION: T11S R45E SECTION 19

MERIDIAN: WILLAMETTE

## STAND CHARACTERISTICS AT TIME OF RETREATMENT:

AGE	56 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

TREATMENTS		TWO YEAR GROWTH/ACRE				
OLD	NEW	NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
0#N	NONE	3.8	4.3	285	305	0.13
200#N	NONE	-0.1	4.2	172	283	0.24
400#N	NONE	5.8	4.8	333	297	0.29
200#N	200#N	4.9	5.5	358	372	0.20
400#N	200#N	4.4	4.4	339	344	0.14
0#N	N+K	5.0	5.2	360	360	0.23
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	-3.9	-0.1	-113	-22	0.11
OLD 400#N	2.0	0.5	48	-8	0.16
400#N-200#N	5.9	0.6	161	14	0.05
NEW 200#N	1.8	0.5	96	68	-0.09
N+K ON CONT	1.2	0.9	75	55	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	-102.6	-2.3	-39.6	-7.2	84.6
OLD 400#N	52.6	11.6	16.8	-2.6	123.1
400#N-200#N	5900.0	14.3	93.6	4.9	20.2
NEW 200#N	63.2	10.0	38.0	23.4	-35.8
N+K ON CONT	31.6	20.9	26.3	18.0	76.9
N+K ON TREAT	.	.	.	.	.
NEW 200#K	.	.	.	.	.

INSTALLATION ADJUSTED GROWTH

INSTALLATION 245

BIG LOCKCUT 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	446.4 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	-6.4	4.1	-37	173	0.79
200#N	NONE	-8.0	4.4	-70	154	0.41
400#N	NONE	.	.	.	.	.
200#N	200#N	3.8	4.1	163	178	0.16
400#N	200#N	-9.4	3.2	-76	174	0.91
0#N	N+K	3.1	4.3	168	202	0.16
200#N	N+K	.	.	.	.	.
400#N	N+K	-3.1	5.6	74	201	0.79

EFFECT		TWO YEAR ABSOLUTE RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		-1.6	0.3	-33	-19	-0.38
OLD 400#N		.	.	.	.	.
400#N-200#N		.	.	.	.	.
NEW 200#N		11.3	-0.3	233	24	-0.25
N+K ON CONT		9.5	0.2	205	29	-0.63
N+K ON TREAT		6.3	2.4	150	27	-0.12

EFFECT		TWO YEAR PERCENT RESPONSE/ACRE				
		NET BA	GROSS BA	NET VOLUME	GROSS VOLUME	MEAN DIAMETER
OLD 200#N		-25.0	7.3	-89.2	-11.0	-48.1
OLD 400#N		.	.	.	.	.
400#N-200#N		.	.	.	.	.
NEW 200#N		147.5	-6.8	332.9	15.6	-01.0
N+K ON CONT		148.4	4.9	554.1	16.8	-79.7
N+K ON TREAT		67.0	75.0	197.4	15.5	-13.2



**SECTION VII**

**Four Year and Two Year Growth Response Summaries  
for all Ponderosa Pine Installations**

INSTALLATION 291 SARDINE SPRINGS  
 REGION: NORTH-EAST OREGON OWNERSHIP: FOREST SERVICE  
 LEGAL DESCRIPTION: T7S R42E SECTION 4 MERIDIAN: WILLAMETTE

SITE AND SOIL CHARACTERISTICS:

ELEVATION 4450 FEET  
 SLOPE 8 PERCENT  
 ASPECT 276 DEGREES  
 PONDEROSA PINE SITE INDEX 101 FEET AT 100 YEARS

STAND CHARACTERISTICS:

INITIAL AGE 85 YEARS  
 INITIAL TREES PER ACRE 71 TREES/ACRE  
 INITIAL BASAL AREA 76.8 SQ.FEET/ACRE  
 INITIAL TOTAL VOLUME 2478 CU.FEET/ACRE  
 INITIAL CCF 58.8  
 RELATIVE DENSITY INDEX 20.4  
 MEAN DIAMETER 14.1 INCHES  
 AVERAGE CROWN RATIO 45.8 %  
 SITE HEIGHT (40 TPA) 76.1 FEET  
 SPECIES COMPOSITION (% OF TOTAL BA)  
 PONDEROSA PINE 100.0 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON  
 INITIAL BASAL AREA OF 76.8 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTRL
FOUR-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTRCL 200 # N 400 # N	12.5 12.3 13.3	-0.2 0.8	-1.6 6.4
FOUR-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTRCL 200 # N 400 # N	13.0 12.0 13.1	-1.0 0.1	-7.7 0.8
FOUR-YEAR NET VOLUME (CU.FEET/ACRE)	CONTRCL 200 # N 400 # N	556 531 620	-25 64	-4.5 11.5
FOUR-YEAR GROSS VOLUME (CU.FEET/ACRE)	CONTRCL 200 # N 400 # N	575 521 610	-54 35	-9.4 6.1
FOUR-YEAR CHANGE IN MEAN DIAMETER (INCHES)	CONTRCL 200 # N 400 # N	1.13 1.03 1.20	-0.10 0.07	-8.8 6.2
FOUR-YEAR MEAN HEIGHT GROWTH (FEET)	CONTRCL 200 # N 400 # N	3.8 3.3 3.9	-0.5 0.1	-13.2 2.6

INSTALLATION 292 SPARTA BLTTE  
 REGION: NORTHEAST OREGON OWNERSHIP: FOREST SERVICE  
 LEGAL DESCRIPTION: T8S R44E SECTION 4 MERIDIAN: WILLAMETTE

SITE AND SOIL CHARACTERISTICS:

ELEVATION 4100 FEET  
 SLOPE 13 PERCENT  
 ASPECT 23 DEGREES  
 Ponderosa PINE SITE INDEX 112 FEET AT 100 YEARS

STAND CHARACTERISTICS:

INITIAL AGE 91 YEARS  
 INITIAL TREES PER ACRE 91 TREES/ACRE  
 INITIAL BASAL AREA 119.5 SQ.FEET/ACRE  
 INITIAL TOTAL VOLUME 4588 CU.FEET/ACRE  
 INITIAL CCF 90.5  
 RELATIVE DENSITY INDEX 30.2  
 MEAN DIAMETER 15.7 INCHES  
 AVERAGE CROWN RATIO 49.0 %  
 SITE HEIGHT (40 TPA) 90.8 FEET  
 SPECIES COMPOSITION (% OF TOTAL BA)  
 DOUGLAS-FIR 5.9 PERCENT  
 Ponderosa PINE 94.1 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON  
 INITIAL BASAL AREA OF 119.5 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
FOUR-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	5.0		
	200 # N	-2.6	-8.5	-144.1
	400 # N	14.2	8.3	140.7
FOUR-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	10.4		
	200 # N	10.2	-0.2	-1.9
	400 # N	12.6	2.2	21.2
FOUR-YEAR NET VOLUME (CU.FEET/ACRE)	CONTROL	443		
	200 # N	-1	-444	-100.2
	400 # N	699	256	57.8
FOUR-YEAR GROSS VOLUME (CU.FEET/ACRE)	CONTROL	618		
	200 # N	548	-70	-11.3
	400 # N	647	29	4.7
FOUR-YEAR CHANGE IN MEAN DIAMETER (INCHES)	CONTROL	0.79		
	200 # N	0.57	-0.22	-27.8
	400 # N	0.79	0.00	0.0
FOUR-YEAR MEAN HEIGHT GROWTH (FEET)	CONTROL	3.3		
	200 # N	3.1	-0.2	-6.1
	400 # N	3.4	0.1	3.0

INSTALLATION 293                      SUMMIT SALVAGE  
 REGION: NORTHEAST OREGON            OWNERSHIP: FOREST SERVICE  
 LEGAL DESCRIPTION: T5S R41E SECTION 27    MERIDIAN: WILLAMETTE

SITE AND SOIL CHARACTERISTICS:

ELEVATION                                      4000 FEET  
 SLOPE    9 PERCENT  
 ASPECT     202 DEGREES  
 PANDEROSA PINE SITE INDEX                109 FEET AT 100 YEARS

STAND CHARACTERISTICS:

INITIAL AGE                                    46 YEARS  
 INITIAL TREES PER ACRE                    177 TREES/ACRE  
 INITIAL BASAL AREA                        88.5 SQ.FEET/ACRE  
 INITIAL TOTAL VOLUME                    1689 CU.FEET/ACRE  
 INITIAL CCF                                    75.6  
 RELATIVE DENSITY INDEX                  26.5  
 MEAN DIAMETER                              5.6 INCHES  
 AVERAGE CROWN RATIO                    59.9 %  
 SITE HEIGHT (40 TPA)                    51.5 FEET  
 SPECIES COMPOSITION (% OF TOTAL BA)  
   DOUGLAS-FIR                              3.9 PERCENT  
   PANDEROSA PINE                          96.1 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON  
 INITIAL BASAL AREA OF 88.5 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTRL
FOUR-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CCNTRCL	9.3		
	200 # N	16.5	7.2	77.4
	400 # N	19.8	10.5	112.9
FOUR-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CCNTRCL	12.3		
	200 # N	17.1	4.8	39.0
	400 # N	20.1	7.8	63.4
FOUR-YEAR NET VOLUME (CU.FEET/ACRE)	CCNTRCL	369		
	200 # N	469	120	32.5
	400 # N	572	203	55.0
FOUR-YEAR GROSS VOLUME (CU.FEET/ACRE)	CCNTRCL	435		
	200 # N	515	80	18.4
	400 # N	544	109	25.1
FOUR-YEAR CHANGE IN MEAN DIAMETER (INCHES)	CCNTRCL	0.74		
	200 # N	0.90	0.16	21.6
	400 # N	1.15	0.41	55.4
FOUR-YEAR MEAN HEIGHT GROWTH (FEET)	CCNTRCL	3.9		
	200 # N	3.9	0.0	0.0
	400 # N	3.8	-0.1	-2.6

INSTALLATION 294 MCSSES CREEK  
 REGION: NORTHEAST OREGON OWNERSHIP: BOISE CASCADE  
 LEGAL DESCRIPTION: T3N R40E SECTION 30 MERIDIAN: WILLAMETTE

SITE AND SOIL CHARACTERISTICS:

ELEVATION 2950 FEET  
 SLOPE 7 PERCENT  
 ASPECT 242 DEGREES  
 Ponderosa PINE SITE INDEX 121 FEET AT 100 YEARS

STAND CHARACTERISTICS:

INITIAL AGE 80 YEARS  
 INITIAL TREES PER ACRE 120 TREES/ACRE  
 INITIAL BASAL AREA 136.6 SQ.FEET/ACRE  
 INITIAL TOTAL VOLUME 4921 CU.FEET/ACRE  
 INITIAL CCF 103.0  
 RELATIVE DENSITY INDEX 35.9  
 MEAN DIAMETER 14.5 INCHES  
 AVERAGE CROWN RATIO 50.2 %  
 SITE HEIGHT (40 TPA) 88.8 FEET  
 SPECIES COMPOSITION (% OF TOTAL BA)  
 DOUGLAS-FIR 2.8 PERCENT  
 GRAND FIR 0.1 PERCENT  
 WESTERN LARCH 2.9 PERCENT  
 Ponderosa PINE 94.2 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON  
 INITIAL BASAL AREA OF 136.6 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
FOUR-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL 200 # N 400 # N	11.4 16.0 -5.9		
			4.6 -17.3	40.4 -151.8
FOUR-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL 200 # N 400 # N	13.0 18.0 12.8		
			5.0 -0.2	38.5 -1.5
FOUR-YEAR NET VOLUME (CU.FEET/ACRE)	CONTROL 200 # N 400 # N	723 826 35		
			103 -688	14.2 -95.2
FOUR-YEAR GROSS VOLUME (CU.FEET/ACRE)	CONTROL 200 # N 400 # N	768 894 724		
			126 -44	16.4 -5.7
FOUR-YEAR CHANGE IN MEAN DIAMETER (INCHES)	CONTROL 200 # N 400 # N	0.93 0.93 1.03		
			0.00 0.10	0.0 10.8
FOUR-YEAR MEAN HEIGHT GROWTH (FEET)	CONTROL 200 # N 400 # N	4.0 3.9 4.1		
			-0.1 0.1	-2.5 2.5

INSTALLATION 295                      PARKERS FLAT  
 REGION: NORTHEAST OREGON              OWNERSHIP: BCISE CASCADE  
 LEGAL DESCRIPTION: T2N R39E SECTION 34      MERIDIAN: WILLAMETTE

SITE AND SOIL CHARACTERISTICS:

ELEVATION                                      2950 FEET  
 SLOPE    11 PERCENT  
 ASPECT                                         203 DEGREES  
 PONDEROSA PINE SITE INDEX                133 FEET AT 100 YEARS

STAND CHARACTERISTICS:

INITIAL AGE                                    33 YEARS  
 INITIAL TREES PER ACRE                    245 TREES/ACRE  
 INITIAL BASAL AREA                        120.1 SQ.FEET/ACRE  
 INITIAL TOTAL VOLUME                    2261 CU.FEET/ACRE  
 INITIAL CCF                                   103.4  
 RELATIVE DENSITY INDEX                   38.9  
 MEAN DIAMETER                             9.5 INCHES  
 AVERAGE CROWN RATIO                    59.2 %  
 SITE HEIGHT (40 TPA)                     50.5 FEET  
 SPECIES COMPOSITION (% OF TOTAL BA)  
   PONDEROSA PINE                           100.0 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON  
 INITIAL BASAL AREA OF 120.1 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTRL
FOUR-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CCNTRCL 200 # N 400 # N	19.7 19.1 22.6		
			-0.6 2.9	-3.0 14.7
FOUR-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CCNTRCL 200 # N 400 # N	18.5 20.5 22.1		
			2.0 3.6	10.8 19.5
FOUR-YEAR NET VOLUME (CU.FEET/ACRE)	CCNTRCL 200 # N 400 # N	684 593 730		
			-91 46	-13.3 6.7
FOUR-YEAR GROSS VOLUME (CU.FEET/ACRE)	CCNTRCL 200 # N 400 # N	637 654 711		
			17 74	2.7 11.6
FOUR-YEAR CHANGE IN MEAN DIAMETER (INCHES)	CCNTRCL 200 # N 400 # N	0.71 0.76 0.86		
			0.05 0.15	7.0 21.1
FOUR-YEAR MEAN HEIGHT GROWTH (FEET)	CCNTRCL 200 # N 400 # N	4.5 4.3 4.4		
			-0.2 -0.1	-4.4 -2.2

INSTALLATION 296 CERRAL CREEK  
 REGION: CENTRAL WASHINGTON OWNERSHIP: FOREST SERVICE  
 LEGAL DESCRIPTION: T21N R14E SECTION 24 MERIDIAN: WILLAMETTE

SITE AND SCIL CHARACTERISTICS:

ELEVATION 2900 FEET  
 SLOPE 8 PERCENT  
 ASPECT 114 DEGREES  
 PONDEROSA PINE SITE INDEX 119 FEET AT 100 YEARS

STAND CHARACTERISTICS:

INITIAL AGE 37 YEARS  
 INITIAL TREES PER ACRE 175 TREES/ACRE  
 INITIAL BASAL AREA 92.6 SQ.FEET/ACRE  
 INITIAL TOTAL VOLUME 1615 CU.FEET/ACRE  
 INITIAL CCF 79.2  
 RELATIVE DENSITY INDEX 29.5  
 MEAN DIAMETER 9.9 INCHES  
 AVERAGE CROWN RATIO 62.2 %  
 SITE HEIGHT (40 TPA) 47.0 FEET  
 SPECIES COMPOSITION (% OF TOTAL BA)  
 PONDEROSA PINE 100.0 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON  
 INITIAL BASAL AREA OF 92.6 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTRL
FOUR-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTRCL	24.7		
	200 # N	26.0	1.3	5.3
	400 # N	28.0	3.3	13.4
FOUR-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTRCL	23.0		
	200 # N	27.3	4.3	18.7
	400 # N	28.5	5.5	23.9
FOUR-YEAR NET VOLUME (CU.FEET/ACRE)	CONTRCL	839		
	200 # N	769	-70	-8.3
	400 # N	915	76	9.1
FOUR-YEAR GROSS VOLUME (CU.FEET/ACRE)	CONTRCL	768		
	200 # N	823	55	7.2
	400 # N	931	163	21.2
FOUR-YEAR CHANGE IN MEAN DIAMETER (INCHES)	CONTRCL	1.16		
	200 # N	1.29	0.13	11.2
	400 # N	1.50	0.34	29.3
FOUR-YEAR MEAN HEIGHT GROWTH (FEET)	CONTRCL	7.1		
	200 # N	6.8	-0.3	-4.2
	400 # N	6.9	-0.2	-2.8

INSTALLATION 297 UPPER MUD CREEK  
 REGION: CENTRAL WASHINGTON OWNERSHIP: FOREST SERVICE  
 LEGAL DESCRIPTION: T27N R20E SECTION 25 MERIDIAN: WILLAMETTE

SITE AND SOIL CHARACTERISTICS:

ELEVATION 2800 FEET  
 SLOPE 3 PERCENT  
 ASPECT 140 DEGREES  
 Ponderosa PINE SITE INDEX 75 FEET AT 100 YEARS

STAND CHARACTERISTICS:

INITIAL AGE 74 YEARS  
 INITIAL TREES PER ACRE 155 TREES/ACRE  
 INITIAL BASAL AREA 69.7 SQ.FEET/ACRE  
 INITIAL TOTAL VOLUME 1270 CU.FEET/ACRE  
 INITIAL CCF 60.6  
 RELATIVE DENSITY INDEX 23.1  
 MEAN DIAMETER 9.1 INCHES  
 AVERAGE CROWN RATIO 62.7 %  
 SITE HEIGHT (40 TPA) 48.5 FEET  
 SPECIES COMPOSITION (% OF TOTAL EA)  
 Ponderosa PINE 100.0 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON INITIAL BASAL AREA OF 69.7 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
FOUR-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	9.8		
	200 # N	11.5	1.7	17.3
	400 # N	-19	-28.8	-293.5
FOUR-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	10.6		
	200 # N	10.1	-0.5	-4.7
	400 # N	8.7	-1.9	-17.9
FOUR-YEAR NET VOLUME (CU.FEET/ACRE)	CONTROL	302		
	200 # N	367	65	21.5
	400 # N	-340	-642	-212.6
FOUR-YEAR GROSS VOLUME (CU.FEET/ACRE)	CONTROL	334		
	200 # N	312	-22	-6.6
	400 # N	224	-110	-32.9
FOUR-YEAR CHANGE IN MEAN DIAMETER (INCHES)	CONTROL	0.66		
	200 # N	0.63	-0.03	-4.5
	400 # N	0.45	-0.21	-31.6
FOUR-YEAR MEAN HEIGHT GROWTH (FEET)	CONTROL	3.9		
	200 # N	3.8	-0.1	-2.6
	400 # N	3.5	-0.4	-10.3



INSTALLATION 298 LILLY LAKE  
 REGION: CENTRAL WASHINGTON OWNERSHIP: WASHINGTON CNR  
 LEGAL DESCRIPTION: T21N R20E SECTION 22 MERIDIAN: WILLAMETTE

SITE AND SOIL CHARACTERISTICS:

ELEVATION 3300 FEET  
 SLOPE 12 PERCENT  
 ASPECT 161 DEGREES  
 PONDEROSA PINE SITE INDEX 84 FEET AT 100 YEARS

STAND CHARACTERISTICS:

INITIAL AGE 77 YEARS  
 INITIAL TREES PER ACRE 177 TREES/ACRE  
 INITIAL BASAL AREA 90.0 SQ.FEET/ACRE  
 INITIAL TOTAL VOLUME 2003 CU.FEET/ACRE  
 INITIAL CCF 77.1  
 RELATIVE DENSITY INDEX 28.9  
 MEAN DIAMETER 9.7 INCHES  
 AVERAGE CROWN RATIO 53.4 %  
 SITE HEIGHT (40 TPA) 57.6 FEET  
 SPECIES COMPOSITION (% OF TOTAL BA)  
 PONDEROSA PINE 100.0 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 CONTRL
FOUR-YEAR NET	CONTRL	11.5		
BASAL AREA	200 # N	13.0	1.5	13.0
(SQ.FEET/ACRE)	400 # N	3.0	-8.5	-73.9
FOUR-YEAR GROSS	CONTRL	11.2		
BASAL AREA	200 # N	12.4	1.2	10.7
(SQ.FEET/ACRE)	400 # N	10.8	-0.4	-3.6
FOUR-YEAR NET	CONTRL	421		
VOLUME	200 # N	510	89	21.1
(CU.FEET/ACRE)	400 # N	204	-217	-51.5
FOUR-YEAR GROSS	CONTRL	409		
VOLUME	200 # N	485	76	18.6
(CU.FEET/ACRE)	400 # N	359	-10	-2.4
FOUR-YEAR CHANGE	CONTRL	0.56		
IN MEAN DIAMETER	200 # N	0.65	0.09	16.1
(INCHES)	400 # N	0.58	0.02	3.6
FOUR-YEAR MEAN	CONTRL	3.7		
HEIGHT GROWTH	200 # N	3.8	0.1	2.7
(FEET)	400 # N	3.7	0.0	0.0

INSTALLATION 299 LICK CREEK  
 REGION: CENTRAL WASHINGTON OWNERSHIP: BCISE CASCADE  
 LEGAL DESCRIPTION: T21N R16E SECTION 30 MERIDIAN: WILLAMETTE

SITE AND SOIL CHARACTERISTICS:

ELEVATION 2500 FEET  
 SLOPE 3 PERCENT  
 ASPECT 160 DEGREES  
 PONDEROSA PINE SITE INDEX 104 FEET AT 100 YEARS

STAND CHARACTERISTICS:

INITIAL AGE 76 YEARS  
 INITIAL TREES PER ACRE 237 TREES/ACRE  
 INITIAL BASAL AREA 167.3 SQ.FEET/ACRE  
 INITIAL TOTAL VOLUME 4820 CU.FEET/ACRE  
 INITIAL CCF 138.0  
 RELATIVE DENSITY INDEX 45.5  
 MEAN DIAMETER 11.4 INCHES  
 AVERAGE CROWN RATIO 43.1 %  
 SITE HEIGHT (40 TPA) 75.7 FEET  
 SPECIES COMPOSITION (% OF TOTAL BA)  
 DOUGLAS-FIR 1.8 PERCENT  
 PONDEROSA PINE 98.2 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON  
 INITIAL BASAL AREA OF 167.3 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTRL
FOUR-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTRL	16.8		
	200 # N	19.9	3.1	18.5
	400 # N	18.1	1.3	7.7
FOUR-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTRL	15.8		
	200 # N	21.4	5.6	35.4
	400 # N	21.0	5.2	32.9
FOUR-YEAR NET VOLUME (CU.FEET/ACRE)	CONTRL	869		
	200 # N	1034	165	19.0
	400 # N	891	22	2.5
FOUR-YEAR GROSS VOLUME (CU.FEET/ACRE)	CONTRL	827		
	200 # N	1061	234	28.3
	400 # N	986	159	19.2
FOUR-YEAR CHANGE IN MEAN DIAMETER (INCHES)	CONTRL	0.55		
	200 # N	0.78	0.23	41.6
	400 # N	0.65	0.10	18.2
FOUR-YEAR MEAN HEIGHT GROWTH (FEET)	CONTRL	4.1		
	200 # N	4.9	0.8	19.5
	400 # N	4.5	0.4	9.8

INSTALLATION 300 SAGE FLAT  
 REGION: CENTRAL WASHINGTON OWNERSHIP: WASHINGTON DNR  
 LEGAL DESCRIPTION: T6N R12E SECTION 17 MERIDIAN: WILLAMETTE

SITE AND SOIL CHARACTERISTICS:

ELEVATION 1500 FEET  
 SLOPE 4 PERCENT  
 ASPECT 107 DEGREES  
 PONDEROSA PINE SITE INDEX 107 FEET AT 100 YEARS

STAND CHARACTERISTICS:

INITIAL AGE 28 YEARS  
 INITIAL TREES PER ACRE 230 TREES/ACRE  
 INITIAL BASAL AREA 214.1 SQ.FEET/ACRE  
 INITIAL TOTAL VOLUME 7450 CU.FEET/ACRE  
 INITIAL CCF 167.6  
 RELATIVE DENSITY INDEX 59.2  
 MEAN DIAMETER 13.1 INCHES  
 AVERAGE CROWN RATIO 38.0 %  
 SITE HEIGHT (40 TPA) 90.8 FEET  
 SPECIES COMPOSITION (% OF TOTAL EA)  
 PONDEROSA PINE 100.0 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON  
 INITIAL BASAL AREA OF 214.1 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTRL
FOUR-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTRL	21.5		
	200 # N	24.9	3.4	15.8
	400 # N	28.6	7.1	33.0
FOUR-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTRL	21.7		
	200 # N	24.6	2.9	13.4
	400 # N	28.6	6.9	31.8
FOUR-YEAR NET VOLUME (CU.FEET/ACRE)	CONTRL	1219		
	200 # N	1466	247	20.3
	400 # N	1552	333	27.3
FOUR-YEAR GROSS VOLUME (CU.FEET/ACRE)	CONTRL	1229		
	200 # N	1456	227	18.5
	400 # N	1552	323	26.3
FOUR-YEAR CHANGE IN MEAN DIAMETER (INCHES)	CONTRL	0.65		
	200 # N	0.72	0.07	10.8
	400 # N	0.85	0.20	30.8
FOUR-YEAR MEAN HEIGHT GROWTH (FEET)	CONTRL	4.3		
	200 # N	4.5	0.2	4.7
	400 # N	4.5	0.2	4.7

## INSTALLATION ADJUSTED GROWTH

INSTALLATION 301

LUBRECHT EXE. FOREST

REGION: MONTANA

CWNESHIP: UofM--LUBRECHT

LEGAL DESCRIPTION: T13N R15W SECIICN 16

MERIDIAN: PRINCIPAL

## SITE AND SOIL CHARACTERISTICS:

ELEVATION	4000 FEET
SLOPE	10 PERCENT
ASPECT	159 DEGREES
PCNDERCJA PINE SITE INDEX	70.3 FEET AT 100 YEARS
VEGETATION SERIES	MISSING

## STAND CHARACTERISTICS:

INITIAL AGE	93 YEARS
INITIAL TREES PER ACRE	232 TREES/ACRE
INITIAL BASAL AREA	81.8 SQ.FEET/ACRE
INITIAL TOTAL VOLUME	1617 CU.FEET/ACRE
INITIAL CCP	75.0
RELATIVE DENSITY INDEX	28.8
AVERAGE CROWN RATIO	46 %
AVERAGE CROWN LENGTH	21.4 FEET
MEAN DIAMETER	8.1 INCHES
SITE HEIGHT (40 IPA)	55.4 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	5.0 PERCENT
PCNDERCJA PINE	91.0 PERCENT

## GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON INITIAL BASAL AREA OF 81.8 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
TWO-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL 200 # N 200N+200K	6.6 7.9 7.3	1.3 0.7	19.7 10.6
TWO-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL 200 # N 200N+200K	6.6 7.9 7.2	1.3 0.6	19.7 9.1
TWO-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL 200 # N 200N+200K	208 242 214	34 6	16.3 2.9
TWO-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL 200 # N 200N+200K	208 241 212	33 4	15.9 1.9
TWO-YEAR MEAN HEIGHT GROWTH (FEET)	CONTROL 200 # N 200N+200K	1.9 2.1 1.9	0.2 0.0	10.5 0.0
TWO-YEAR MEAN DIAMETER GROWTH (INCHES)	CONTROL 200 # N 200N+200K	0.32 0.39 0.34	0.07 0.02	21.9 6.3

## INSTALLATION ADJUSTED G

INSTALLATION 302

BLUE MTN.

REGION: MONTANA

OWNERSHIP: U.S. ARMY SERVICE

LEGAL DESCRIPTION: T13N R20W SECTION 34

MERIDIAN: PRINCIPAL

## SITE AND SOIL CHARACTERISTICS:

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ELEVATION	3300 FEET
SLOPE	13 PERCENT
ASPECT	61 DEGREES
POUNDEROSA PINE SITE INDEX	76.8 FEET AT 100 YEARS
VEGETATION SERIES	MISSING

## STAND CHARACTERISTICS:

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INITIAL AGE	98 YEARS
INITIAL TREES PER ACRE	290 TREES/ACRE
INITIAL BASAL AREA	134.9 SQ.FEET/ACRE
INITIAL TOTAL VOLUME	3315 CU.FEET/ACRE
INITIAL CCP	123.1
RELATIVE DENSITY INDEX	43.9
AVERAGE CRCWN RATIO	41 %
AVERAGE CRCWN LENGTH	22.9 FEET
MEAN DIAMETER	5.4 INCHES
SITE HEIGHT (40 TPA)	65.3 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	20.4 PERCENT
PONDEROSA PINE	79.6 PERCENT

## GROWTH:

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NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON INITIAL BASAL AREA OF 134.9 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
TWO-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL 200 # N	4.0 5.4		
	200N+200K	4.3	1.4 0.3	35.0 7.5
TWO-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL 200 # N	4.6 5.0		
	200N+200K	5.3	0.4 0.7	8.7 15.2
TWO-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL 200 # N	183 218		
	200N+200K	179	35 -4	19.1 -2.2
TWO-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL 200 # N	192 207		
	200N+200K	203	15 11	7.8 5.7
TWO-YEAR MEAN HEIGHT GROWTH (FEET)	CONTROL 200 # N	1.4 1.4		
	200N+200K	1.3	0.0 -0.1	0.0 -7.1
TWO-YEAR MEAN DIAMETER GROWTH (INCHES)	CONTROL 200 # N	0.24 0.17		
	200N+200K	0.21	-0.07 -0.03	-29.2 -12.5

## INSTALLATION ADJUSTED GRCWTH

INSTALLATION 303

FOUR MILE CR.

REGION: MONTANA

OWNERSHIP: FOREST SERVICE

LEGAL DESCRIPTION: T18N R27W SECTION 12

MERIDIAN: PRINCIPAL

## SITE AND SOIL CHARACTERISTICS:

ELEVATION	3500 FEET
SLOPE	40 PERCENT
ASPECT	206 DEGREES
PONDEROSA PINE SITE INDEX	104.3 FEET AT 100 YEARS
VEGETATION SERIES	MISSING

## STAND CHARACTERISTICS:

INITIAL AGE	81 YEARS
INITIAL TREES PER ACRE	170 TREES/ACRE
INITIAL BASAL AREA	131.1 SQ. FEET/ACRE
INITIAL TOTAL VOLUME	4125 CU. FEET/ACRE
INITIAL CCF	108.2
RELATIVE DENSITY INDEX	38.0
AVERAGE CRCWN RATIO	51 %
AVERAGE CRCWN LENGTH	36.2 FEET
MEAN DIAMETER	11.9 INCHES
SITE HEIGHT (40 TPA)	79.0 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	4.4 PERCENT
PONDEROSA PINE	95.6 PERCENT

## GRCWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON  
INITIAL BASAL AREA OF 131.1 SQ. FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
TWO-YEAR NET BASAL AREA (SQ. FEET/ACRE)	CONTROL	5.4		
	200 # N	4.7	-0.7	-13.0
	200N+200K	7.4	2.0	37.0
TWO-YEAR GROSS BASAL AREA (SQ. FEET/ACRE)	CONTROL	5.7		
	200 # N	4.9	-0.8	-14.0
	200N+200K	6.8	1.1	19.3
TWO-YEAR NET TOTAL VOLUME (CU. FEET/ACRE)	CONTROL	303		
	200 # N	286	-17	-5.6
	200N+200K	382	79	26.1
TWO-YEAR GROSS TOTAL VOLUME (CU. FEET/ACRE)	CONTROL	312		
	200 # N	295	-17	-5.4
	200N+200K	362	50	16.0
TWO-YEAR MEAN HEIGHT GROWTH (FEET)	CONTROL	2.1		
	200 # N	2.1	0.0	0.0
	200N+200K	2.2	0.1	4.8
TWO-YEAR MEAN DIAMETER GROWTH (INCHES)	CONTROL	0.25		
	200 # N	0.22	-0.03	-12.0
	200N+200K	0.31	0.06	24.0

## INSTALLATION ADJUSTED GROWTH

INSTALLATION 304

HINCHWOOD CB.

REGION: MONTANA

CWNESHIP: CHAMPION

LEGAL DESCRIPTION: T21N R25W SECTION 19

MERIDIAN: PRINCIPAL

## SITE AND SOIL CHARACTERISTICS:

ELEVATION	3200 FEET
SLOPE	12 PERCENT
ASPECT	238 DEGREES
PONDEROSA FINE SITE INDEX	100.9 FEET AT 100 YEARS
VEGETATION SERIES	MISSING

## STAND CHARACTERISTICS:

INITIAL AGE	69 YEARS
INITIAL TREES PER ACRE	283 TREES/ACRE
INITIAL BASAL AREA	123.1 SQ.FEET/ACRE
INITIAL TOTAL VOLUME	3008 CU.FEET/ACRE
INITIAL CCF	106.9
RELATIVE DENSITY INDEX	41.1
AVERAGE CRCWN RATIO	49 %
AVERAGE CRCWN LENGTH	27.6 FEET
MEAN DIAMETER	9.0 INCHES
SITE HEIGHT (40 TPA)	66.7 FEET
SPECIES COMPOSITION (% OF TOTAL EA)	
DOUGLAS-FIR	2.4 PERCENT
PONDEROSA PINE	97.6 PERCENT

## GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON INITIAL BASAL AREA OF 123.1 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTRL
TWO-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL 200 # N 200N+200K	4.8 7.8 7.6		
			3.0 2.8	62.5 58.3
TWO-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL 200 # N 200N+200K	6.3 7.5 7.3		
			1.2 1.0	19.0 15.9
TWO-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL 200 # N 200N+200K	240 333 304		
			93 64	38.8 26.7
TWO-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL 200 # N 200N+200K	276 322 296		
			46 20	16.7 7.2
TWO-YEAR MEAN HEIGHT GROWTH (FEET)	CONTROL 200 # N 200N+200K	2.1 2.2 2.0		
			0.1 -0.1	4.8 -4.8
TWO-YEAR MEAN DIAMETER GROWTH (INCHES)	CONTROL 200 # N 200N+200K	0.26 0.29 0.24		
			0.03 -0.02	11.5 -7.7

## INSTALLATION ADJUSTED GROWTH

INSTALLATION 305

LIBBY PLANTATION

REGION: MONTANA

OWNERSHIP: CHAMPION

LEGAL DESCRIPTION: T29N R13W SECTION 12

MERIDIAN: PRINCIPAL

## SITE AND SOIL CHARACTERISTICS:

ELEVATION	3000 FEET
SLOPE	0 PERCENT
ASPECT	0 DEGREES
FONDEROSA PINE SITE INDEX	121.2 FEET AT 100 YEARS
VEGETATION SERIES	MISSING

## STAND CHARACTERISTICS:

INITIAL AGE	42 YEARS
INITIAL TREES PER ACRE	223 TREES/ACRE
INITIAL BASAL AREA	101.1 SQ.FEET/ACRE
INITIAL TOTAL VOLUME	2243 CU.FEET/ACRE
INITIAL CCF	27.8
RELATIVE DENSITY INDEX	33.5
AVERAGE CROWN RATIO	55 %
AVERAGE CROWN LENGTH	29.4 FEET
MEAN DIAMETER	9.1 INCHES
SITE HEIGHT (40 TPA)	58.0 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
FONDEROSA PINE	100.0 PERCENT

## GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON INITIAL BASAL AREA OF 101.1 SQ.FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
TWO-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL 200 # N 200N+200K	8.3 4.4 7.8	-3.9 -0.5	-47.0 -6.0
TWO-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL 200 # N 200N+200K	8.0 7.4 7.8	-0.6 -0.2	-7.5 -2.5
TWO-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL 200 # N 200N+200K	333 211 320	-122 -13	-36.6 -3.9
TWO-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL 200 # N 200N+200K	319 276 320	-43 1	-13.5 0.3
TWO-YEAR MEAN HEIGHT GROWTH (FEET)	CONTROL 200 # N 200N+200K	2.8 2.8 2.7	0.0 -0.1	0.0 -3.6
TWO-YEAR MEAN DIAMETER GROWTH (INCHES)	CONTROL 200 # N 200N+200K	0.35 0.37 0.36	0.02 0.01	5.7 2.9



## INSTALLATION ADJUSTED GROWTH

INSTALLATION 306

SEDLAR CR.

REGION: MONTANA

MEMBERSHIP: CHAMPION

LEGAL DESCRIPTION: T26N R29W SECTION 9

MERIDIAN: PRINCIPAL

## SITE AND SOIL CHARACTERISTICS:

ELEVATION	3000 FEET
SLOPE	30 PERCENT
ASPECT	164 DEGREES
PONDEROSA PINE SITE INDEX	105.5 FEET AT 100 YEARS
VEGETATION SERIES	MISSING

## STAND CHARACTERISTICS:

INITIAL AGE	71 YEARS
INITIAL TREES PER ACRE	217 TREES/ACRE
INITIAL BASAL AREA	143.3 SQ.FEET/ACRE
INITIAL TOTAL VOLUME	4099 CU.FEET/ACRE
INITIAL CCF	120.6
RELATIVE DENSITY INDEX	43.1
AVERAGE CROWN RATIO	53 %
AVERAGE CROWN LENGTH	34.4 FEET
MEAN DIAMETER	11.0 INCHES
SITE HEIGHT (40 TPA)	73.6 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-PIR	4.3 PERCENT
WESTERN LARCH	19.2 PERCENT
PONDEROSA PINE	76.4 PERCENT
ENGELMANN SPRUCE	0.1 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
TWO-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL 200 # N 200N+200K	7.5 -1.2 8.0	-8.7 0.5	-116.0 6.7
TWO-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL 200 # N 200N+200K	8.4 8.9 9.1	0.5 0.7	6.0 8.3
TWO-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL 200 # N 200N+200K	352 86 401	-266 49	-75.6 13.9
TWO-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL 200 # N 200N+200K	383 412 442	29 59	7.6 15.4
TWO-YEAR MEAN HEIGHT GROWTH (FEET)	CONTROL 200 # N 200N+200K	2.4 2.4 2.3	0.0 -0.1	0.0 -4.2
TWO-YEAR MEAN DIAMETER GROWTH (INCHES)	CONTROL 200 # N 200N+200K	0.32 0.41 0.37	0.09 0.05	28.1 15.6