

TECHNICAL DOCUMENTATION REPORT

**Intermountain Forest Tree
Nutrition Cooperative**

April 1993

Part II

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

College of Forestry, Wildlife and Range Sciences

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Plot Summary Report

Installation 103 GOLD CREEK
 Region: Central Idaho
 Legal Description: T16N R4E

Section 35

Ownership: Boise Cascade
 Meridian: Boise

Plot Number 1 2 3 4 5 6 7 8
 Treatment 200 F Cont N+S F 400 F N+S S 200 S Cont 400 S

MENSURATIONAL CHARACTERISTICS:

At Time of Treatment (1980) Stand Age = 61

Live Trees per Acre 140 200 140 150 200 150 170 160
 Live Basal Area (sq.ft/a) 67.1 110.9 126.7 81.7 98.2 102.4 117.5 82.2
 Live Total Volume (cu.ft/a) 1400 2596 3592 1894 1842 2274 2400 1556
 Crown Competition Factor 76 127 122 98 111 110 119 93
 Relative Density Index 21.9 34.9 35.3 25.8 31.9 30.6 35.0 26.4
 Mean Diameter (in) 9.4 10.1 12.9 10.0 9.5 11.2 11.3 9.7
 Average Crown Ratio (%) 58.0 61.0 59.0 50.0 64.0 57.0 65.0 63.0
 Site Height (feet) 57.9 71.3 90.5
 Species Composition (% of BA)
 Douglas-fir 100.0 95.2 97.3 84.9 80.3 91.1 66.1 86.8
 Grand Fir 0.0 0.0 0.0 15.1 0.0 0.0 0.0 0.0
 Lodgepole Pine 0.0 4.8 0.0 0.0 0.0 0.0 0.0 0.0
 Ponderosa Pine 0.0 0.0 2.7 0.0 19.8 8.9 33.9 13.2

3 Years After Treatment (1983)

Live Trees per Acre 140 200 140 140 200 150 170 160
 Live Basal Area (sq.ft/a) 77.1 123.4 144.0 88.8 113.5 119.0 132.0 96.7
 Live Total Volume (cu.ft/a) 1728 3088 4323 2203 2378 2916 2979 2001
 Crown Competition Factor 89 142 139 106 128 127 134 111
 Relative Density Index 25.0 38.7 39.8 27.8 36.6 35.3 39.2 30.5
 Mean Diameter (in) 10.2 10.8 14.0 11.0 10.4 12.3 12.1 10.7
 Dead Trees per Acre 0 0 0 10 0 0 0 0
 Dead Basal Area (sq.ft/a) 0.0 0.0 0.0 3.1 0.0 0.0 0.0 0.0
 Dead Total Volume (cu.ft/a) 0.0 0.0 0.0 71 0.0 0.0 0.0 0.0

4 Years After Treatment (1984)

Live Trees per Acre 140 200 140 140 200 150 170 160
 Live Basal Area (sq.ft/a) 80.0 127.0 148.6 92.1 117.9 123.6 136.4 100.0
 Live Total Volume (cu.ft/a) 1728 3088 4323 2203 2378 2916 2979 2001
 Crown Competition Factor 89 142 139 106 128 127 134 111
 Relative Density Index 25.0 38.7 39.8 27.8 36.6 35.3 39.2 30.5
 Mean Diameter (in) 10.2 10.8 14.0 11.0 10.4 12.3 12.1 10.7
 Dead Trees per Acre 0 0 0 10 0 0 0 0
 Dead Basal Area (sq.ft/a) 0.0 0.0 0.0 3.1 0.0 0.0 0.0 0.0
 Dead Total Volume (cu.ft/a) 0.0 0.0 0.0 71 0.0 0.0 0.0 0.0

6 Years After Treatment (1986)

Live Trees per Acre 140 200 140 140 200 150 170 160
 Live Basal Area (sq.ft/a) 84.8 133.4 156.1 98.3 125.7 131.9 144.6 106.2
 Live Total Volume (cu.ft/a) 1863 3304 4604 2383 2636 3216 3265 2194
 Crown Competition Factor 93 147 144 111 134 134 141 117
 Relative Density Index 26.1 40.1 41.3 29.2 38.4 37.0 40.9 32.0
 Mean Diameter (in) 10.5 11.1 14.3 11.4 10.7 12.7 12.5 11.0
 Dead Trees per Acre 0 0 0 10 0 0 0 0
 Dead Basal Area (sq.ft/a) 0.0 0.0 0.0 3.1 0.0 0.0 0.0 0.0
 Dead Total Volume (cu.ft/a) 0.0 0.0 0.0 71 0.0 0.0 0.0 0.0

8 Years After Treatment (1988)

Live Trees per Acre 140 200 130 140 200 150 170 150
 Live Basal Area (sq.ft/a) 90.5 139.0 162.4 104.1 133.6 139.3 152.8 109.8
 Live Total Volume (cu.ft/a) 2034 3499 4866 2570 2887 3488 3563 2362
 Crown Competition Factor 98 151 148 115 142 140 146 118
 Relative Density Index 27.4 41.4 41.8 30.5 40.2 38.6 42.7 32.3
 Mean Diameter (in) 10.9 11.3 15.1 11.7 11.1 13.1 12.8 11.6
 Dead Trees per Acre 0 0 0 10 0 0 0 0
 Dead Basal Area (sq.ft/a) 0.0 0.0 0.9 3.1 0.0 0.0 0.0 2.5
 Dead Total Volume (cu.ft/a) 0 0 13 71 0 0 0 38

10 Years After Treatment (1990)

Live Trees per Acre 140 200 130 140 200 150 170 150
 Live Basal Area (sq.ft/a) 96.2 145.1 170.3 110.8 140.5 147.1 161.2 117.4
 Live Total Volume (cu.ft/a) 1103 156 153 121 147 146 153 125
 Crown Competition Factor 28.7 42.7 43.3 31.9 41.7 40.2 44.4 33.9
 Relative Density Index 11.2 11.5 15.5 12.1 11.4 13.4 13.2 12.0
 Mean Diameter (in) 11.0 11.5 10 10 0 0 0 10
 Dead Trees per Acre 0 0 0 3.1 0.0 0.0 0.0 2.5
 Dead Basal Area (sq.ft/a) 0.0 0.0 0.9 71 0 0 0 10
 Dead Total Volume (cu.ft/a) 0 0 13 71 0 0 0 38

Plot Summary Report

Installation 104 DAVIS CREEK
 Region: Northeast Oregon
 Legal Description: T1N R45E Section 4

Ownership: Boise Cascade
 Meridian: Willamette

Plot Number	1		2		3		4		5		6		7		8	
Treatment	N+S	S	400	S	200	S	Cont	400	F	N+S	F	200	F	Cont		

MENSURATIONAL CHARACTERISTICS:

At Time of Treatment (1980)																
Stand Age = 42																
Live Trees per Acre	220	210	160	153	190	190	190	140								
Live Basal Area (sq.ft/a)	85.4	81.9	74.9	77.6	91.3	77.1	73.1	83.8								
Live Total Volume (cu.ft/a)	1680	1655	1429	1501	1833	1411	1430	1640								
Crown Competition Factor	92	95	79	86	99	88	82	86								
Relative Density Index	29.4	28.2	24.6	25.0	29.8	26.3	25.2	25.9								
Mean Diameter (in)	8.4	8.5	9.3	9.6	9.4	8.6	8.4	10.5								
Average Crown Ratio (%)	68.0	75.0	116.0	76.0	74.0	78.0	122.0	76.0								
Site Height (feet)	55.4	54.9	54.0	50.9	55.7	54.9	53.9	52.3								
Species Composition (% of BA)																
Douglas-fir	56.4	77.0	58.2	69.8	66.7	77.6	69.8	66.5								
Western Larch	42.7	17.7	31.3	21.5	33.3	13.8	28.3	4.1								
Ponderosa Pine	0.9	5.4	10.5	8.6	0.0	8.6	1.8	29.4								
3 Years After Treatment (1983)																
Live Trees per Acre	220	210	160	153	190	190	190	140								
Live Basal Area (sq.ft/a)	98.2	97.6	86.7	89.0	106.1	90.7	86.6	98.5								
Crown Competition Factor	106	111	89	96	111	104	98	96								
Relative Density Index	32.7	32.1	27.5	27.7	33.4	29.7	28.6	29.2								
Mean Diameter (in)	9.1	9.2	10.0	10.3	10.1	9.4	9.1	11.4								
Dead Trees per Acre	0	0	0	0	0	0	0	0								
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0								
4 Years After Treatment (1984)																
Live Trees per Acre	220	210	160	153	190	190	190	140								
Live Basal Area (sq.ft/a)	102.8	103.0	90.9	92.9	110.7	94.9	90.9	102.5								
Live Total Volume (cu.ft/a)	2185	2238	1886	1935	2396	1889	1926	2203								
Crown Competition Factor	110	117	93	99	116	107	102	99								
Relative Density Index	33.8	33.4	28.5	28.6	34.4	30.7	29.7	30.1								
Mean Diameter (in)	9.3	9.5	10.2	10.5	10.3	9.6	9.4	11.6								
Dead Trees per Acre	0	0	0	0	0	0	0	0								
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0								
Dead Total Volume (cu.ft/a)	0	0	0	0	0	0	0	0								
6 Years After Treatment (1986)																
Live Trees per Acre	220	210	160	153	190	190	190	140								
Live Basal Area (sq.ft/a)	111.1	112.6	98.3	100.9	118.8	102.4	98.1	111.0								
Live Total Volume (cu.ft/a)	2429	2522	2114	2166	2650	2105	2134	2475								
Crown Competition Factor	119	126	98	105	123	114	109	106								
Relative Density Index	35.8	35.8	30.2	30.4	36.3	32.5	31.4	32.0								
Mean Diameter (in)	9.6	9.9	10.6	11.0	10.7	9.9	9.7	12.1								
Dead Trees per Acre	0	0	0	0	0	0	0	0								
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0								
Dead Total Volume (cu.ft/a)	0	0	0	0	0	0	0	0								
8 Years After Treatment (1988)																
Live Trees per Acre	220	210	160	153	190	190	190	140								
Live Basal Area (sq.ft/a)	116.6	118.9	104.2	106.7	124.7	107.9	103.9	117.8								
Live Total Volume (cu.ft/a)	2635	2752	2301	2366	2859	2297	2319	2711								
Crown Competition Factor	123	132	103	109	128	119	113	111								
Relative Density Index	37.1	37.2	31.5	31.8	37.7	33.8	32.8	33.4								
Mean Diameter (in)	9.9	10.2	10.9	11.3	11.0	10.2	10.0	12.4								
Dead Trees per Acre	0	0	0	0	0	0	0	0								
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0								
Dead Total Volume (cu.ft/a)	0	0	0	0	0	0	0	0								
10 Years After Treatment (1990)																
Live Trees per Acre	220	200	160	153	190	190	190	140								
Live Basal Area (sq.ft/a)	121.7	117.9	109.1	112.0	130.0	113.6	108.4	123.3								
Crown Competition Factor	128	133	107	113	132	124	117	115								
Relative Density Index	38.4	36.6	32.6	32.9	38.8	35.1	33.9	34.6								
Mean Diameter (in)	10.1	10.4	11.2	11.6	11.2	10.5	10.2	12.7								
Dead Trees per Acre	0	10	0	0	0	0	0	0								
Dead Basal Area (sq.ft/a)	0.0	6.8	0.0	0.0	0.0	0.0	0.0	0.0								
Dead Total Volume (cu.ft/a)	0	176	0	0	0	0	0	0								

Plot Summary Report

Installation 105 TEANAWAY RIVER
 Region: Central Washington
 Legal Description: T21N R15E Section 21

Ownership: Boise Cascade
 Meridian: Willamette

Plot Number	1	2	3	4	5	6	7	8
Treatment	200 F	Cont	N+S F	400 F	200 S	N+S S	400 S	Cont

MENSURATIONAL CHARACTERISTICS:

At Time of Treatment (1980) Stand Age = 83

Live Trees per Acre	140	140	160	170	210	170	220	210
Live Basal Area (sq.ft/a)	162.8	140.8	170.5	125.9	161.7	149.8	142.0	176.2
Live Total Volume (cu.ft/a)	5605	4621	5731	3942	4704	4659	4251	5264
Crown Competition Factor	155	140	165	133	172	150	154	180
Relative Density Index	42.6	38.2	45.6	36.9	46.9	42.0	43.0	50.0
Mean Diameter (in)	14.6	13.6	14.0	11.7	11.9	12.7	10.9	12.4
Average Crown Ratio (%)	50.0	44.0	41.0	82.0	40.0	44.0	47.0	40.0
Site Height (feet)	98.1	93.4	96.6	89.3	83.5	80.5	85.9	88.3
Species Composition (% of BA)								
Douglas-fir	86.4	90.7	84.3	89.2	85.7	72.8	67.7	71.0
Grand Fir	3.5	0.0	4.7	4.7	0.0	3.6	3.3	2.8
Western Larch	0.0	0.0	7.5	6.1	14.3	0.0	4.3	26.3
Lodgepole Pine	0.0	0.0	0.0	0.0	0.0	0.0	3.8	0.0
Ponderosa Pine	10.1	9.3	3.5	0.0	0.0	23.7	21.0	0.0

3 Years After Treatment (1983)

Live Trees per Acre	140	140	160	150	210	170	220	210
Live Basal Area (sq.ft/a)	177.9	150.6	185.1	130.9	173.8	162.9	155.5	186.7
Crown Competition Factor	166	147	176	133	182	160	166	189
Relative Density Index	45.5	40.2	48.5	36.8	49.5	44.7	46.1	52.3
Mean Diameter (in)	15.3	14.0	14.6	12.7	12.3	13.3	11.4	12.8
Dead Trees per Acre	0	0	0	20	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	11.2	0.0	0.0	0.0	0.0

4 Years After Treatment (1984)

Live Trees per Acre	140	140	160	150	210	170	220	210
Live Basal Area (sq.ft/a)	184.7	155.3	191.4	138.2	180.4	169.7	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)	15.6	14.3	14.8	13.0	12.6	13.5	11.7	13.0
Dead Trees per Acre	0	0	0	20	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	11.2	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	356	0	0	0	0

6 Years After Treatment (1986)

Live Trees per Acre	140	140	160	150	210	170	220	210
Live Basal Area (sq.ft/a)	193.8	162.4	199.5	149.4	189.0	179.0	174.4	200.9
Live Total Volume (cu.ft/a)	7025	5494	6980	4908	5711	5860	5598	6160
Crown Competition Factor	178	155	184	146	194	172	179	199
Relative Density Index	48.6	42.5	51.3	40.7	52.7	48.0	50.2	55.2
Mean Diameter (in)	15.9	14.6	15.1	13.5	12.9	13.9	12.1	13.2
Dead Trees per Acre	0	0	0	20	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	11.2	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	356	0	0	0	0

8 Years After Treatment (1988)

Live Trees per Acre	130	140	160	150	210	170	220	210
Live Basal Area (sq.ft/a)	195.5	171.1	209.1	161.7	199.5	189.6	185.5	210.9
Live Total Volume (cu.ft/a)	7203	5890	7404	5373	6104	6326	6088	6560
Crown Competition Factor	174	161	191	155	203	180	187	206
Relative Density Index	48.0	44.2	53.2	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
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

10 Years After Treatment (1990)

Live Trees per Acre	130	140	150	140	210	160	220	200
Live Basal Area (sq.ft/a)	203.2	178.8	213.5	164.3	207.3	191.4	192.5	215.5
Crown Competition Factor	179	166	193	153	209	178	193	207
Relative Density Index	49.4	45.7	53.1	42.9	56.5	49.7	54.1	57.5
Mean Diameter (in)	16.9	15.3	16.2	14.7	13.5	14.8	12.7	14.1
Dead Trees per Acre	10	0	10	30	0	10	0	10
Dead Basal Area (sq.ft/a)	8.1	0.0	5.2	18.7	0.0	6.7	0.0	2.9
Dead Total Volume (cu.ft/a)	298	0	160	610	0	236	0	58

Plot Summary Report

Installation 106 DEER CREEK
 Region: Northeast Washington
 Legal Description: T30N R39E Section 7

Ownership: Boise Cascade
 Meridian: Willamette

Plot Number	1	2	3	4	5	6	7	8
Treatment	200 F	Cont	400 F	N+S F	Cont	400 S	200 S	N+S S

MENSURATIONAL CHARACTERISTICS:

At Time of Treatment (1980) Stand Age = 41

Live Trees per Acre	200	240	200	210	330	230	240	270
Live Basal Area (sq.ft/a)	87.5	86.5	83.9	80.8	96.7	88.5	96.7	106.3
Live Total Volume (cu.ft/a)	2077	1979	1867	1780	2266	1928	2283	2376
Crown Competition Factor	105	104	104	100	125	104	108	126
Relative Density Index	29.3	30.3	28.3	27.9	35.7	30.5	33.0	36.5
Mean Diameter (in)	9.0	8.1	8.8	8.4	7.3	8.4	8.6	8.5
Average Crown Ratio (%)	58.0	55.0	57.0	58.0	51.0	67.0	60.0	59.0
Site Height (feet)	67.4	66.8	61.0	60.6	66.5	60.9	68.8	65.9
Species Composition (% of BA)								
Douglas-fir	96.2	95.8	100.0	100.0	99.1	90.8	79.3	67.3
Grand Fir	0.0	0.0	0.0	0.0	0.0	0.7	0.9	6.5
Western Redcedar	0.0	1.1	0.0	0.0	0.9	0.0	0.0	7.5
Western Larch	3.8	3.1	0.0	0.0	0.0	8.5	2.5	18.8
Ponderosa Pine	0.0	0.0	0.0	0.0	0.0	0.0	17.3	0.0

3 Years After Treatment (1983)

Live Trees per Acre	180	220	200	210	330	230	230	260
Live Basal Area (sq.ft/a)	97.8	98.7	102.6	97.0	110.9	106.2	112.1	124.1
Crown Competition Factor	114	115	122	119	140	121	124	145
Relative Density Index	31.0	32.8	33.0	32.0	39.6	35.0	36.5	40.6
Mean Diameter (in)	10.0	9.1	9.7	9.2	7.9	9.2	9.5	9.4
Dead Trees per Acre	20	20	0	0	0	0	10	10
Dead Basal Area (sq.ft/a)	7.5	2.6	0.0	0.0	0.0	0.0	1.3	1.6

4 Years After Treatment (1984)

Live Trees per Acre	180	220	200	210	330	230	230	260
Live Basal Area (sq.ft/a)	104.0	104.2	109.7	102.4	116.1	112.5	117.6	130.6
Live Total Volume (cu.ft/a)	2676	2587	2646	2461	2902	2655	2960	3234
Crown Competition Factor	118	123	128	124	145	127	130	152
Relative Density Index	32.4	34.1	34.6	33.3	41.0	36.6	37.8	42.2
Mean Diameter (in)	10.3	9.3	10.0	9.5	8.0	9.5	9.7	9.6
Dead Trees per Acre	20	20	0	0	0	0	10	10
Dead Basal Area (sq.ft/a)	7.5	2.6	0.0	0.0	0.0	0.0	1.3	1.6
Dead Total Volume (cu.ft/a)	169	42	0	0	0	0	14	23

6 Years After Treatment (1986)

Live Trees per Acre	160	200	200	210	330	230	230	260
Live Basal Area (sq.ft/a)	96.3	96.9	118.2	108.8	122.3	120.7	124.5	139.6
Live Total Volume (cu.ft/a)	2532	2483	2938	2691	3131	2919	3203	3576
Crown Competition Factor	108	113	137	129	152	135	137	162
Relative Density Index	29.7	31.6	36.6	34.9	42.6	38.5	39.5	44.3
Mean Diameter (in)	10.5	9.4	10.4	9.8	8.2	9.8	10.0	9.9
Dead Trees per Acre	40	40	0	0	0	0	10	10
Dead Basal Area (sq.ft/a)	22.5	16.0	0.0	0.0	0.0	0.0	1.3	1.6
Dead Total Volume (cu.ft/a)	585	368	0	0	0	0	14	23

8 Years After Treatment (1988)

Live Trees per Acre	150	200	200	210	330	230	220	250
Live Basal Area (sq.ft/a)	102.5	104.4	127.3	116.0	129.6	128.2	128.0	149.1
Live Total Volume (cu.ft/a)	2816	2776	3280	2960	3443	3230	3460	3959
Crown Competition Factor	112	119	145	140	159	142	140	171
Relative Density Index	30.6	33.4	38.7	36.6	44.5	40.3	39.8	46.1
Mean Diameter (in)	11.2	9.8	10.8	10.1	8.5	10.1	10.3	10.5
Dead Trees per Acre	50	40	0	0	0	0	20	20
Dead Basal Area (sq.ft/a)	23.5	16.0	0.0	0.0	0.0	0.0	6.3	2.5
Dead Total Volume (cu.ft/a)	599	368	0	0	0	0	83	39

10 Years After Treatment (1990)

Live Trees per Acre	130	200	200	210	330	230	220	250
Live Basal Area (sq.ft/a)	97.2	111.9	135.5	122.8	137.6	136.2	136.2	156.4
Crown Competition Factor	104	126	153	145	167	149	146	179
Relative Density Index	28.4	35.2	40.6	38.2	46.5	42.2	41.7	47.8
Mean Diameter (in)	11.7	10.1	11.2	10.4	8.7	10.4	10.7	10.7
Dead Trees per Acre	70	40	0	0	0	0	20	20
Dead Basal Area (sq.ft/a)	35.3	16.0	0.0	0.0	0.0	0.0	6.3	2.5
Dead Total Volume (cu.ft/a)	897	368	0	0	0	0	83	39

Plot Number	1	2	3	4	5	6
Initial Treatment (1981)	200#N	400#N	0#N	400#N	0#N	200#N
Second Treatment (1987)	N+K	N+K	N+K	None	None	200#N

MENSURATIONAL CHARACTERISTICS:

At Time of Treatment (1981) Stand Age = 59

Live Trees per Acre	160	160	180	300	260	310
Live Basal Area (sq.ft/a)	97.8	72.0	88.8	145.1	146.0	132.2
Live Total Volume (cu.ft/a)	2084	1304	1723	3753	3388	3014
Crown Competition Factor	113	81	103	171	164	140
Relative Density Index	30.1	23.9	28.8	47.3	45.8	44.5
Mean Diameter (in)	10.6	9.1	9.5	9.4	10.2	8.8
Average Crown Ratio (%)	47.0	61.0	48.0	40.0	45.0	44.0
Site Height (feet)	61.1	54.0	54.0	73.1	64.8	61.2
Species Composition (% of BA)						
Douglas-fir	96.4	76.0	91.2	84.0	89.2	55.6
Grand Fir	3.6	0.0	0.0	8.3	0.0	0.0
Western Larch	0.0	0.0	0.0	0.0	8.1	0.6
Lodgepole Pine	0.0	0.0	0.0	3.2	0.0	0.0
Ponderosa Pine	0.0	24.0	8.8	4.6	2.7	43.8

2 Years After Treatment (1983)

Live Trees per Acre	160	160	180	300	260	310
Live Basal Area (sq.ft/a)	105.1	80.4	94.7	157.8	155.2	140.3
Crown Competition Factor	120	89	111	183	173	148
Relative Density Index	31.7	26.0	30.2	50.4	48.0	46.5
Mean Diameter (in)	11.0	9.6	9.8	9.8	10.5	9.1
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0

4 Years After Treatment (1985)

Live Trees per Acre	160	160	180	300	260	310
Live Basal Area (sq.ft/a)	111.4	89.4	100.9	169.7	164.1	150.6
Live Total Volume (cu.ft/a)	2509	1746	2080	4611	3982	3736
Crown Competition Factor	127	97	116	193	180	157
Relative Density Index	33.2	28.1	31.7	53.2	50.0	49.0
Mean Diameter (in)	11.3	10.1	10.1	10.2	10.8	9.4
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	2	0	0

6 Years After Treatment (1987)

Live Trees per Acre	160	160	180	290	260	310
Live Basal Area (sq.ft/a)	116.3	96.1	107.1	176.2	171.2	156.6
Live Total Volume (cu.ft/a)	2686	1935	2262	4889	4226	3992
Crown Competition Factor	132	102	123	196	186	162
Relative Density Index	34.2	29.7	33.1	54.2	51.7	50.5
Mean Diameter (in)	11.6	10.5	10.4	10.6	11.0	9.6
Dead Trees per Acre	0	0	0	10	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	1.1	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	23	0	0

8 Years After Treatment (1989)

Live Trees per Acre	160	160	170	280	250	290
Live Basal Area (sq.ft/a)	122.9	102.7	110.2	180.1	174.2	158.4
Live Total Volume (cu.ft/a)	2908	2122	2384	5077	4377	4154
Crown Competition Factor	136	108	126	201	190	163
Relative Density Index	35.7	31.2	33.4	54.7	51.8	50.1
Mean Diameter (in)	11.9	10.9	10.9	10.9	11.3	10.0
Dead Trees per Acre	0	0	10	20	10	20
Dead Basal Area (sq.ft/a)	0.0	0.0	4.8	4.5	4.6	5.0
Dead Total Volume (cu.ft/a)	1	0	91	105	99	110

10 Years After Treatment (1991)

Live Trees per Acre	160	160	170	270	250	290
Live Basal Area (sq.ft/a)	128.3	107.8	115.7	184.3	178.5	163.1
Crown Competition Factor	139	112	131	203	193	168
Relative Density Index	36.8	32.3	34.6	55.1	52.8	51.2
Mean Diameter (in)	12.1	11.1	11.2	11.2	11.4	10.2
Dead Trees per Acre	0	0	10	30	10	20
Dead Basal Area (sq.ft/a)	0.0	0.0	4.8	5.9	4.6	5.0
Dead Total Volume (cu.ft/a)	1	0	91	127	99	110

Plot Summary Report

Installation 202 HORSETHIEF RESERVOIR
 Region: Central Idaho Ownership: Boise Cascade
 Legal Description: T13N R5E Section 18 Meridian: Boise

Plot Number	1	2	3	4	5	6
Initial Treatment (1981)	400#N	0#N	200#N	400#N	200#N	0#N
Second Treatment (1987)	N+K	None	None	None	N+K	N+K

MENSURATIONAL CHARACTERISTICS:

 At Time of Treatment (1981) Stand Age = 58

Live Trees per Acre	190	240	230	160	140	130
Live Basal Area (sq.ft/a)	78.0	70.9	77.0	69.7	44.0	61.9
Live Total Volume (cu.ft/a)	1529	1359	1439	1249	861	1270
Crown Competition Factor	87	91	95	80	56	74
Relative Density Index	26.5	26.1	27.5	23.3	16.0	20.3
Mean Diameter (in)	8.7	7.4	7.8	8.9	7.6	9.3
Average Crown Ratio (%)	53.0	43.0	56.0	62.0	59.0	57.0
Site Height (feet)	49.4	53.9	53.0	47.7	48.9	57.0
Species Composition (% of BA)						
Douglas-fir	58.4	97.7	88.4	77.9	94.5	92.9
Lodgepole Pine	21.6	0.0	0.0	0.0	5.5	0.0
Ponderosa Pine	19.9	2.3	11.6	22.1	0.0	7.1

2 Years After Treatment (1983)

Live Trees per Acre	190	240	230	160	140	130
Live Basal Area (sq.ft/a)	87.7	76.8	84.7	79.2	51.3	68.8
Crown Competition Factor	95	97	103	90	63	80
Relative Density Index	28.9	27.8	29.6	25.7	17.9	21.9
Mean Diameter (in)	9.2	7.7	8.2	9.5	8.2	9.9
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0

4 Years After Treatment (1985)

Live Trees per Acre	190	240	230	160	140	130
Live Basal Area (sq.ft/a)	96.9	83.1	93.0	89.3	58.6	76.8
Live Total Volume (cu.ft/a)	2050	1653	1820	1736	1191	1644
Crown Competition Factor	103	104	110	99	70	88
Relative Density Index	31.2	29.5	31.7	28.1	19.8	23.8
Mean Diameter (in)	9.7	8.0	8.6	10.1	8.8	10.4
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	0	0

6 Years After Treatment (1987)

Live Trees per Acre	190	240	230	160	140	130
Live Basal Area (sq.ft/a)	102.5	87.9	97.3	95.4	62.8	81.7
Live Total Volume (cu.ft/a)	2218	1770	1936	1895	1304	1788
Crown Competition Factor	107	109	114	104	75	94
Relative Density Index	32.5	30.7	32.8	29.5	20.9	24.9
Mean Diameter (in)	9.9	8.2	8.8	10.5	9.1	10.7
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	0	0

8 Years After Treatment (1989)

Live Trees per Acre	160	240	230	160	140	130
Live Basal Area (sq.ft/a)	96.9	92.5	102.3	102.7	69.1	88.7
Live Total Volume (cu.ft/a)	2183	1890	2066	2077	1472	1991
Crown Competition Factor	98	114	119	111	83	101
Relative Density Index	29.9	31.9	34.0	31.2	22.4	26.5
Mean Diameter (in)	10.5	8.4	9.0	10.9	9.5	11.2
Dead Trees per Acre	30	0	0	0	0	0
Dead Basal Area (sq.ft/a)	11.5	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	227	0	0	0	0	0

10 Years After Treatment (1991)

Live Trees per Acre	150	240	230	160	140	130
Live Basal Area (sq.ft/a)	94.4	96.6	103.9	106.9	73.0	93.0
Crown Competition Factor	95	119	120	114	88	104
Relative Density Index	28.8	33.0	34.4	32.1	23.3	27.5
Mean Diameter (in)	10.7	8.6	9.1	11.1	9.8	11.5
Dead Trees per Acre	40	0	0	0	0	0
Dead Basal Area (sq.ft/a)	17.6	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	414	0	0	0	0	0

Plot Summary Report

Installation 203 LAFFINWELL CREEK #2
 Region: Central Idaho Ownership: Boise Cascade
 Legal Description: T16N R4E Section 29 Meridian: Boise

Plot Number	1	2	3	4	5	6
Initial Treatment (1981)	200#N	400#N	0#N	0#N	400#N	200#N
Second Treatment (1987)	200#N	N+K	None	N+K	200#N	None

MENSURATIONAL CHARACTERISTICS:

 At Time of Treatment (1981) Stand Age = 69

Live Trees per Acre	170	130	180	120	190	200
Live Basal Area (sq.ft/a)	98.4	85.1	106.0	88.3	102.9	123.4
Live Total Volume (cu.ft/a)	2048	2316	2851	2126	2465	2969
Crown Competition Factor	106	96	119	88	122	127
Relative Density Index	30.7	25.7	32.9	25.9	32.6	37.8
Mean Diameter (in)	10.3	11.0	10.4	11.6	10.0	10.6
Average Crown Ratio (%)	46.0	34.0	44.0	58.0	51.0	52.0
Site Height (feet)	58.6	75.2	78.6	68.8	70.7	70.2
Species Composition (% of BA)						
Douglas-fir	73.7	92.9	77.0	68.6	85.8	74.1
Grand Fir	0.0	7.1	8.7	7.8	14.2	0.0
Western Larch	0.0	0.0	14.3	0.0	0.0	0.0
Ponderosa Pine	26.3	0.0	0.0	23.6	0.0	25.9

2 Years After Treatment (1983)

Live Trees per Acre	170	130	180	120	190	200
Live Basal Area (sq.ft/a)	105.1	91.7	111.6	93.8	111.2	134.1
Crown Competition Factor	111	102	124	93	129	135
Relative Density Index	32.2	27.2	34.2	27.1	34.6	40.3
Mean Diameter (in)	10.7	11.4	10.7	12.0	10.4	11.1
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0

4 Years After Treatment (1985)

Live Trees per Acre	170	130	180	113	190	200
Live Basal Area (sq.ft/a)	111.8	97.5	118.7	98.2	117.5	143.1
Live Total Volume (cu.ft/a)	2463	2729	3330	2549	2927	3677
Crown Competition Factor	117	107	130	95	135	142
Relative Density Index	33.7	28.5	35.8	27.6	36.0	42.3
Mean Diameter (in)	11.0	11.7	11.0	12.6	10.7	11.5
Dead Trees per Acre	0	0	0	7	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.9	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	8	2	0

6 Years After Treatment (1987)

Live Trees per Acre	170	130	180	113	190	200
Live Basal Area (sq.ft/a)	117.1	103.7	122.6	102.4	122.0	150.4
Live Total Volume (cu.ft/a)	2657	2947	3509	2728	3090	3961
Crown Competition Factor	121	111	133	99	139	148
Relative Density Index	34.9	29.8	36.7	28.5	37.0	43.9
Mean Diameter (in)	11.2	12.1	11.2	12.9	10.9	11.7
Dead Trees per Acre	0	0	0	7	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.9	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	8	2	0

8 Years After Treatment (1989)

Live Trees per Acre	170	130	180	107	160	190
Live Basal Area (sq.ft/a)	123.0	110.0	127.7	101.4	110.1	152.7
Live Total Volume (cu.ft/a)	2847	3177	3704	2766	2857	4092
Crown Competition Factor	126	116	137	96	120	147
Relative Density Index	36.3	31.2	37.8	27.9	32.9	43.8
Mean Diameter (in)	11.5	12.5	11.4	13.2	11.2	12.1
Dead Trees per Acre	0	0	0	13	30	10
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	6.7	16.1	3.9
Dead Total Volume (cu.ft/a)	0	0	0	155	384	100

10 Years After Treatment (1991)

Live Trees per Acre	170	130	180	93	160	190
Live Basal Area (sq.ft/a)	126.9	114.7	132.0	102.3	112.3	156.4
Crown Competition Factor	129	120	141	96	122	150
Relative Density Index	37.1	32.2	38.8	27.2	33.4	44.6
Mean Diameter (in)	11.7	12.7	11.6	14.2	11.3	12.3
Dead Trees per Acre	0	0	0	27	30	10
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	8.9	16.1	3.9
Dead Total Volume (cu.ft/a)	0	0	0	179	384	100

Plot Summary Report

Installation 204 JOHNSON'S MILL #1
 Region: Northern Idaho Ownership: IDL
 Legal Description: T37N R3E Section 4 Meridian: Boise

Plot Number	1	2	3	4	5	6
Initial Treatment (1981)	400#N	0#N	200#N	0#N	400#N	200#N
Second Treatment (1987)	None	None	None	N+K	200#N	200#N

MENSURATIONAL CHARACTERISTICS:

 At Time of Treatment (1981) Stand Age = 41

Live Trees per Acre	260	250	280	250	180	210
Live Basal Area (sq.ft/a)	121.2	118.4	121.3	101.7	80.4	83.0
Live Total Volume (cu.ft/a)	2943	2839	2965	2291	2012	1965
Crown Competition Factor	147	144	157	126	107	108
Relative Density Index	39.9	38.8	40.6	34.6	26.7	28.5
Mean Diameter (in)	9.2	9.3	8.9	8.6	9.1	8.5
Average Crown Ratio (%)	50.0	49.0	52.0	51.0	56.0	52.0
Site Height (feet)	70.6	67.5	69.6	64.7	67.5	63.7
Species Composition (% of BA)						
Douglas-fir	92.7	94.3	78.4	100.0	74.7	81.1
Grand Fir	7.4	5.7	21.6	0.0	25.3	18.9

2 Years After Treatment (1983)

Live Trees per Acre	260	250	270	250	180	210
Live Basal Area (sq.ft/a)	139.6	129.0	136.5	114.0	94.0	95.9
Crown Competition Factor	164	154	172	138	120	123
Relative Density Index	44.3	41.4	44.0	37.7	30.1	31.7
Mean Diameter (in)	9.9	9.7	9.6	9.1	9.8	9.2
Dead Trees per Acre	0	0	10	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	1.7	0.0	0.0	0.0

4 Years After Treatment (1985)

Live Trees per Acre	250	230	260	250	170	190
Live Basal Area (sq.ft/a)	153.3	124.7	147.9	125.9	104.7	99.5
Live Total Volume (cu.ft/a)	4043	3164	3998	3075	2925	2616
Crown Competition Factor	177	150	182	149	131	125
Relative Density Index	47.1	39.5	46.3	40.6	32.1	31.8
Mean Diameter (in)	10.6	10.0	10.2	9.6	10.6	9.8
Dead Trees per Acre	10	20	20	0	10	20
Dead Basal Area (sq.ft/a)	2.7	13.6	4.4	0.0	2.3	7.7
Dead Total Volume (cu.ft/a)	55	339	85	0	52	159

6 Years After Treatment (1987)

Live Trees per Acre	230	230	250	250	170	180
Live Basal Area (sq.ft/a)	157.0	133.5	155.0	136.9	117.3	106.3
Live Total Volume (cu.ft/a)	4341	3476	4374	3468	3416	2906
Crown Competition Factor	177	160	186	159	139	129
Relative Density Index	47.0	41.6	47.5	43.3	35.0	33.0
Mean Diameter (in)	11.2	10.3	10.7	10.0	11.3	10.4
Dead Trees per Acre	30	20	30	0	10	30
Dead Basal Area (sq.ft/a)	11.8	13.6	9.1	0.0	2.3	11.2
Dead Total Volume (cu.ft/a)	247	339	188	0	52	237

8 Years After Treatment (1989)

Live Trees per Acre	230	230	250	250	170	170
Live Basal Area (sq.ft/a)	169.0	141.7	165.7	150.5	131.5	112.3
Live Total Volume (cu.ft/a)	4817	3770	4819	3952	4008	3227
Crown Competition Factor	187	167	195	172	150	135
Relative Density Index	49.6	43.5	49.9	46.4	38.1	33.9
Mean Diameter (in)	11.6	10.6	11.0	10.5	11.9	11.0
Dead Trees per Acre	30	20	30	0	10	40
Dead Basal Area (sq.ft/a)	11.8	13.6	9.1	0.0	2.3	15.7
Dead Total Volume (cu.ft/a)	247	339	188	0	52	332

10 Years After Treatment (1991)

Live Trees per Acre	230	220	250	250	170	170
Live Basal Area (sq.ft/a)	182.2	147.8	178.6	166.0	144.9	124.2
Crown Competition Factor	198	172	208	187	162	145
Relative Density Index	52.5	44.4	52.8	50.0	41.0	36.5
Mean Diameter (in)	12.1	11.1	11.4	11.0	12.5	11.6
Dead Trees per Acre	30	30	30	0	10	40
Dead Basal Area (sq.ft/a)	11.8	16.6	9.1	0.0	2.3	15.7
Dead Total Volume (cu.ft/a)	247	407	188	0	52	332

Plot Summary Report

Installation 205 JOHNSON'S MILL #2
 Region: Northern Idaho Ownership: IDL
 Legal Description: T37N R3E Section 4 Meridian: Boise

Plot Number	1	2	3	4	5	6
Initial Treatment (1981)	400#N	200#N	0#N	400#N	200#N	0#N
Second Treatment (1987)	200#N	N+K	None	None	200#N	N+K

MENSURATIONAL CHARACTERISTICS:

At Time of Treatment (1981) Stand Age = 41

Live Trees per Acre	240	220	190	210	270	250
Live Basal Area (sq.ft/a)	143.4	120.6	106.5	80.4	121.1	98.0
Live Total Volume (cu.ft/a)	3949	3283	2640	1771	3102	2380
Crown Competition Factor	172	146	129	105	150	113
Relative Density Index	44.3	38.1	33.5	27.8	40.2	33.7
Mean Diameter (in)	10.5	10.0	10.1	8.4	9.1	8.5
Average Crown Ratio (%)	47.0	46.0	55.0	49.0	45.0	45.0
Site Height (feet)	71.7	73.2	70.9	61.9	70.3	66.2
Species Composition (% of BA)						
Douglas-fir	65.2	86.5	87.3	84.7	74.3	65.2
Grand Fir	22.0	13.5	12.7	15.3	14.6	3.8
Western Redcedar	12.8	0.0	0.0	0.0	0.0	0.0
Western Larch	0.0	0.0	0.0	0.0	8.2	13.2
Lodgepole Pine	0.0	0.0	0.0	0.0	0.0	15.3
Western White Pine	0.0	0.0	0.0	0.0	3.0	2.5

2 Years After Treatment (1983)

Live Trees per Acre	240	220	190	200	270	250
Live Basal Area (sq.ft/a)	161.0	135.3	118.2	89.3	136.9	106.2
Crown Competition Factor	191	160	141	110	165	122
Relative Density Index	48.4	41.5	36.2	29.7	44.1	35.8
Mean Diameter (in)	11.1	10.6	10.7	9.1	9.6	8.8
Dead Trees per Acre	0	0	0	10	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	4.4	0.0	0.0

4 Years After Treatment (1985)

Live Trees per Acre	240	220	190	200	270	240
Live Basal Area (sq.ft/a)	176.9	148.0	129.6	101.6	150.0	110.4
Live Total Volume (cu.ft/a)	5356	4474	3513	2461	4210	2905
Crown Competition Factor	204	174	151	123	177	126
Relative Density Index	51.9	44.4	38.7	32.7	47.2	36.4
Mean Diameter (in)	11.6	11.1	11.2	9.7	10.1	9.2
Dead Trees per Acre	0	0	0	10	0	10
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	4.4	0.0	2.5
Dead Total Volume (cu.ft/a)	0	0	0	113	0	63

6 Years After Treatment (1987)

Live Trees per Acre	240	220	190	190	250	210
Live Basal Area (sq.ft/a)	191.0	159.2	140.7	108.2	154.4	110.5
Live Total Volume (cu.ft/a)	6015	4982	3954	2738	4525	3070
Crown Competition Factor	217	183	161	129	180	123
Relative Density Index	55.0	46.9	41.2	33.9	47.3	35.3
Mean Diameter (in)	12.1	11.5	11.7	10.2	10.6	9.8
Dead Trees per Acre	0	0	0	20	20	40
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	7.1	7.1	11.2
Dead Total Volume (cu.ft/a)	0	0	0	172	179	236

8 Years After Treatment (1989)

Live Trees per Acre	230	220	190	190	250	210
Live Basal Area (sq.ft/a)	200.6	171.5	150.1	118.6	168.5	120.2
Live Total Volume (cu.ft/a)	6623	5586	4378	3132	5092	3457
Crown Competition Factor	225	192	168	139	191	131
Relative Density Index	56.4	49.6	43.3	36.3	50.5	37.6
Mean Diameter (in)	12.7	12.0	12.0	10.7	11.1	10.2
Dead Trees per Acre	10	0	0	20	20	40
Dead Basal Area (sq.ft/a)	6.1	0.0	0.0	7.1	7.1	11.2
Dead Total Volume (cu.ft/a)	184	0	0	172	179	236

10 Years After Treatment (1991)

Live Trees per Acre	230	210	190	190	240	210
Live Basal Area (sq.ft/a)	215.7	178.6	161.6	129.2	173.7	129.1
Crown Competition Factor	237	194	177	148	193	139
Relative Density Index	59.6	50.6	45.7	38.7	51.2	39.6
Mean Diameter (in)	13.1	12.5	12.5	11.2	11.5	10.6
Dead Trees per Acre	10	10	0	20	30	40
Dead Basal Area (sq.ft/a)	6.1	5.6	0.0	7.1	14.5	11.2
Dead Total Volume (cu.ft/a)	184	206	0	172	421	236

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	None	N+K	200#N	None	N+K

MENSURATIONAL CHARACTERISTICS:

 At Time of Treatment (1981) Stand Age = 46

Live Trees per Acre	230	210	190	370	310	250
Live Basal Area (sq.ft/a)	148.1	119.3	124.2	207.1	157.9	157.7
Live Total Volume (cu.ft/a)	4048	3060	3150	5535	3941	4332
Crown Competition Factor	153	140	137	241	184	179
Relative Density Index	44.9	37.4	37.5	65.1	50.8	48.1
Mean Diameter (in)	10.9	10.2	11.0	10.1	9.7	10.8
Average Crown Ratio (%)	53.0	55.0	46.0	50.0	49.0	49.0
Site Height (feet)	82.8	72.5	72.0	75.9	72.1	80.5
Species Composition (% of BA)						
Douglas-fir	68.1	88.2	94.3	71.8	82.4	59.6
Grand Fir	1.1	11.2	0.0	17.2	5.6	14.6
Western Redcedar	8.5	0.6	0.0	6.7	8.2	2.8
Western Larch	19.3	0.0	5.8	4.4	3.8	17.2
Ponderosa Pine	3.1	0.0	0.0	0.0	0.0	5.8

2 Years After Treatment (1983)

Live Trees per Acre	230	210	190	370	310	250
Live Basal Area (sq.ft/a)	160.3	129.4	134.3	224.6	173.3	168.3
Crown Competition Factor	163	149	145	258	198	189
Relative Density Index	47.7	39.7	39.8	69.2	54.5	50.5
Mean Diameter (in)	11.3	10.6	11.4	10.6	10.1	11.1
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0

4 Years After Treatment (1985)

Live Trees per Acre	230	210	180	370	310	240
Live Basal Area (sq.ft/a)	170.3	137.9	140.6	239.4	186.0	173.6
Live Total Volume (cu.ft/a)	5035	3832	3904	6978	5063	5201
Crown Competition Factor	173	156	149	267	209	191
Relative Density Index	49.9	41.6	40.6	72.6	57.4	51.2
Mean Diameter (in)	11.7	11.0	12.0	10.9	10.5	11.5
Dead Trees per Acre	0	0	10	0	0	10
Dead Basal Area (sq.ft/a)	0.0	0.0	1.7	0.0	0.0	3.4
Dead Total Volume (cu.ft/a)	0	0	42	0	0	95

6 Years After Treatment (1987)

Live Trees per Acre	230	210	180	370	310	240
Live Basal Area (sq.ft/a)	181.0	147.6	149.1	255.4	198.0	186.8
Live Total Volume (cu.ft/a)	5519	4239	4277	7692	5557	5791
Crown Competition Factor	181	165	157	281	219	205
Relative Density Index	52.2	43.8	42.5	76.1	60.2	54.1
Mean Diameter (in)	12.0	11.4	12.3	11.3	10.8	12.0
Dead Trees per Acre	0	0	10	0	0	10
Dead Basal Area (sq.ft/a)	0.0	0.0	1.7	0.0	0.0	3.4
Dead Total Volume (cu.ft/a)	0	0	42	0	0	95

8 Years After Treatment (1989)

Live Trees per Acre	230	210	180	360	310	240
Live Basal Area (sq.ft/a)	191.6	156.7	157.5	266.3	208.2	198.3
Live Total Volume (cu.ft/a)	6038	4675	4688	8330	6052	6381
Crown Competition Factor	189	172	163	289	227	212
Relative Density Index	54.5	45.8	44.3	78.0	62.5	56.5
Mean Diameter (in)	12.4	11.7	12.7	11.7	11.1	12.3
Dead Trees per Acre	0	0	10	10	0	10
Dead Basal Area (sq.ft/a)	0.0	0.0	1.7	1.7	0.0	3.4
Dead Total Volume (cu.ft/a)	0	0	43	36	2	95

10 Years After Treatment (1991)

Live Trees per Acre	230	210	180	340	310	240
Live Basal Area (sq.ft/a)	201.6	166.0	165.7	264.0	218.9	211.5
Crown Competition Factor	199	180	169	279	236	222
Relative Density Index	56.6	47.8	46.0	76.4	64.9	59.3
Mean Diameter (in)	12.7	12.0	13.0	11.9	11.4	12.7
Dead Trees per Acre	0	0	10	30	0	10
Dead Basal Area (sq.ft/a)	0.0	0.0	1.7	16.9	0.0	3.4
Dead Total Volume (cu.ft/a)	0	0	43	586	2	95

Plot Summary Report

Installation 207 WAHA
 Region: Northeast Oregon
 Legal Description: T33N R4W Section 10 Ownership: Potlatch Meridian: Boise

Plot Number	1	2	3	4	5	6
Initial Treatment (1981)	400#N	200#N	0#N	400#N	0#N	200#N
Second Treatment (1987)	N+K	None	None	None	N+K	N+K

MENSURATIONAL CHARACTERISTICS:

At Time of Treatment (1981) Stand Age = 55

Live Trees per Acre	350	260	220	260	290	280
Live Basal Area (sq.ft/a)	197.7	167.7	121.9	136.4	172.0	145.0
Live Total Volume (cu.ft/a)	4928	4472	2925	3242	4702	3657
Crown Competition Factor	200	173	132	153	177	171
Relative Density Index	62.0	50.9	38.4	43.6	53.3	46.5
Mean Diameter (in)	10.2	10.9	10.1	9.8	10.4	9.8
Average Crown Ratio (%)	34.0	42.0	44.0	46.0	34.0	37.0
Site Height (feet)	67.0	78.6	65.2	66.7	75.6	68.9
Species Composition (% of BA)						
Douglas-fir	52.0	59.4	70.7	82.5	48.5	94.9
Grand Fir	0.0	5.5	0.0	0.0	7.0	0.0
Western Larch	11.3	11.0	0.0	0.0	0.0	0.0
Ponderosa Pine	36.7	24.1	29.3	17.5	44.5	5.1

2 Years After Treatment (1983)

Live Trees per Acre	310	260	220	260	260	260
Live Basal Area (sq.ft/a)	184.4	179.2	128.8	146.4	165.9	144.8
Crown Competition Factor	189	182	139	162	170	168
Relative Density Index	57.1	53.5	40.0	45.9	50.4	45.6
Mean Diameter (in)	10.4	11.2	10.4	10.2	10.8	10.1
Dead Trees per Acre	40	0	0	0	30	20
Dead Basal Area (sq.ft/a)	21.7	0.0	0.0	0.0	13.0	9.7

4 Years After Treatment (1985)

Live Trees per Acre	290	260	210	260	260	250
Live Basal Area (sq.ft/a)	183.9	191.2	132.1	155.3	173.5	147.0
Live Total Volume (cu.ft/a)	4899	5572	3471	3988	5105	3883
Crown Competition Factor	187	192	141	169	176	167
Relative Density Index	56.0	56.1	40.3	48.0	52.2	45.6
Mean Diameter (in)	10.8	11.6	10.7	10.5	11.1	10.4
Dead Trees per Acre	60	0	10	0	30	30
Dead Basal Area (sq.ft/a)	31.9	0.0	3.3	0.0	13.0	16.0
Dead Total Volume (cu.ft/a)	887	0	57	0	339	423

6 Years After Treatment (1987)

Live Trees per Acre	240	240	180	240	240	240
Live Basal Area (sq.ft/a)	168.3	180.2	118.8	150.0	171.7	149.1
Live Total Volume (cu.ft/a)	4375	5259	3184	3927	5144	4010
Crown Competition Factor	174	183	130	164	174	167
Relative Density Index	50.0	52.6	35.8	45.8	50.7	45.6
Mean Diameter (in)	11.3	11.7	11.0	10.7	11.5	10.7
Dead Trees per Acre	110	20	40	20	50	40
Dead Basal Area (sq.ft/a)	54.3	19.1	21.4	12.1	19.7	19.5
Dead Total Volume (cu.ft/a)	1496	639	547	333	531	511

8 Years After Treatment (1989)

Live Trees per Acre	190	180	160	240	190	180
Live Basal Area (sq.ft/a)	154.0	150.0	110.4	156.6	132.5	131.7
Live Total Volume (cu.ft/a)	4299	4426	3027	4198	4011	3645
Crown Competition Factor	161	153	121	170	138	148
Relative Density Index	44.1	42.7	32.9	47.4	39.4	38.7
Mean Diameter (in)	12.2	12.4	11.3	10.9	11.3	11.6
Dead Trees per Acre	160	80	60	20	100	100
Dead Basal Area (sq.ft/a)	75.4	55.0	34.5	12.1	63.4	41.1
Dead Total Volume (cu.ft/a)	2047	1717	892	333	1881	1063

10 Years After Treatment (1991)

Live Trees per Acre	190	190	160	230	190	160
Live Basal Area (sq.ft/a)	161.0	158.9	114.6	159.0	147.3	116.7
Crown Competition Factor	166	161	124	171	149	131
Relative Density Index	45.6	45.2	33.9	47.4	42.7	34.3
Mean Diameter (in)	12.5	12.4	11.5	11.3	11.9	11.6
Dead Trees per Acre	160	70	60	30	100	120
Dead Basal Area (sq.ft/a)	75.4	52.4	34.5	16.2	55.9	60.1
Dead Total Volume (cu.ft/a)	2047	1649	892	431	1650	1566

Plot Summary Report

Installation 208 LOVELL VALLEY ROAD
 Region: Northern Idaho Ownership: Potlatch
 Legal Description: T46N R5W Section 25 Meridian: Boise

Plot Number	1	2	3	4	5	6
Initial Treatment (1981)	0#N	400#N	200#N	400#N	200#N	0#N
Second Treatment (1987)	N+K	None	N+K	200#N	200#N	None

MENSURATIONAL CHARACTERISTICS:

 At Time of Treatment (1981) Stand Age = 88

Live Trees per Acre	100	120	150	130	210	190
Live Basal Area (sq.ft/a)	155.9	207.3	216.4	167.8	209.1	175.5
Live Total Volume (cu.ft/a)	5708	7884	7666	5675	7005	5357
Crown Competition Factor	139	180	191	157	206	179
Relative Density Index	37.9	49.1	53.7	42.8	56.9	48.6
Mean Diameter (in)	16.9	17.8	16.3	15.4	13.5	13.0
Average Crown Ratio (%)	40.0	37.0	35.0	32.0	32.0	34.0
Site Height (feet)	106.2	114.4	103.3	100.2	100.9	90.6
Species Composition (% of BA)						
Douglas-fir	100.0	100.0	89.9	100.0	94.6	94.4
Grand Fir	0.0	0.0	0.0	0.0	0.0	5.6
Ponderosa Pine	0.0	0.0	10.1	0.0	5.4	0.0

2 Years After Treatment (1983)

Live Trees per Acre	100	120	150	130	210	190
Live Basal Area (sq.ft/a)	162.1	215.1	225.0	173.4	217.1	182.5
Crown Competition Factor	143	186	196	161	211	184
Relative Density Index	39.0	50.5	55.2	43.9	58.5	50.1
Mean Diameter (in)	17.2	18.1	16.6	15.6	13.8	13.3
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0

4 Years After Treatment (1985)

Live Trees per Acre	100	120	150	120	210	190
Live Basal Area (sq.ft/a)	167.2	221.3	232.8	174.7	224.2	188.9
Live Total Volume (cu.ft/a)	6255	8627	8508	6003	7721	5918
Crown Competition Factor	147	190	201	159	216	188
Relative Density Index	40.0	51.6	56.7	43.2	60.0	51.4
Mean Diameter (in)	17.5	18.4	16.9	16.3	14.0	13.5
Dead Trees per Acre	0	0	0	10	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	4.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	111	0	0

6 Years After Treatment (1987)

Live Trees per Acre	90	120	150	120	210	180
Live Basal Area (sq.ft/a)	170.5	229.2	240.9	181.1	231.9	195.0
Live Total Volume (cu.ft/a)	6539	9068	8957	6283	8090	6202
Crown Competition Factor	146	195	207	164	222	191
Relative Density Index	39.5	53.0	58.2	44.4	61.5	51.9
Mean Diameter (in)	18.6	18.7	17.2	16.6	14.2	14.1
Dead Trees per Acre	10	0	0	10	0	10
Dead Basal Area (sq.ft/a)	4.0	0.0	0.0	4.0	0.0	2.0
Dead Total Volume (cu.ft/a)	114	0	0	111	0	50

8 Years After Treatment (1989)

Live Trees per Acre	90	120	150	120	210	160
Live Basal Area (sq.ft/a)	178.6	236.9	250.4	189.1	241.1	188.7
Live Total Volume (cu.ft/a)	6918	9441	9457	6633	8518	6018
Crown Competition Factor	152	200	213	169	228	181
Relative Density Index	40.9	54.3	59.9	45.9	63.3	49.2
Mean Diameter (in)	19.1	19.0	17.5	17.0	14.5	14.7
Dead Trees per Acre	10	0	0	10	0	30
Dead Basal Area (sq.ft/a)	4.0	0.0	0.0	4.0	0.0	15.8
Dead Total Volume (cu.ft/a)	114	0	0	111	0	536

10 Years After Treatment (1991)

Live Trees per Acre	90	120	150	120	210	160
Live Basal Area (sq.ft/a)	185.0	244.0	258.0	194.7	248.6	196.9
Crown Competition Factor	156	205	218	173	233	187
Relative Density Index	42.0	55.5	61.2	46.9	64.8	50.8
Mean Diameter (in)	19.4	19.3	17.8	17.3	14.7	15.0
Dead Trees per Acre	10	0	0	10	0	30
Dead Basal Area (sq.ft/a)	4.0	0.0	0.0	4.0	0.0	15.8
Dead Total Volume (cu.ft/a)	114	0	0	111	0	536

Plot Summary Report

Installation 209 ADDEY
 Region: Northeast Washington Ownership: Boise Cascade
 Legal Description: T34N R38E Section 27 Meridian: Willamette

Plot Number	1	2	3	4	5	6
Initial Treatment (1981)	200#N	0#N	400#N	0#N	400#N	200#N
Second Treatment (1987)	200#N	N+K	None	None	N+K	N+K

MENSURATIONAL CHARACTERISTICS:

At Time of Treatment (1981)	Stand Age = 68					
Live Trees per Acre	170	150	190	230	210	140
Live Basal Area (sq.ft/a)	182.6	121.7	124.3	150.5	158.7	120.9
Live Total Volume (cu.ft/a)	6233	3840	3466	4442	4743	3769
Crown Competition Factor	182	130	143	172	174	124
Relative Density Index	48.7	34.9	37.6	45.5	46.3	34.1
Mean Diameter (in)	14.0	12.2	11.0	11.0	11.8	12.6
Average Crown Ratio (%)	34.0	33.0	37.0	33.0	34.0	37.0
Site Height (feet)	102.3	92.4	78.8	82.7	86.0	91.7
Species Composition (% of BA)						
Douglas-fir	100.0	100.0	100.0	100.0	100.0	94.1
Western Larch	0.0	0.0	0.0	0.0	0.0	5.9

2 Years After Treatment (1983)						
Live Trees per Acre	170	150	190	230	210	140
Live Basal Area (sq.ft/a)	192.4	127.3	132.0	157.1	167.1	129.0
Crown Competition Factor	189	135	150	180	183	131
Relative Density Index	50.7	36.0	39.3	47.0	48.1	35.8
Mean Diameter (in)	14.4	12.5	11.3	11.2	12.1	13.0
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0

4 Years After Treatment (1985)						
Live Trees per Acre	170	140	190	230	210	140
Live Basal Area (sq.ft/a)	201.7	126.7	140.5	165.3	178.0	137.5
Live Total Volume (cu.ft/a)	7221	4171	4150	5113	5652	4511
Crown Competition Factor	195	132	157	187	192	136
Relative Density Index	52.5	35.3	41.2	48.8	50.4	37.5
Mean Diameter (in)	14.8	12.9	11.7	11.5	12.5	13.4
Dead Trees per Acre	0	10	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	6.5	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	193	0	0	0	0

6 Years After Treatment (1987)						
Live Trees per Acre	170	140	190	220	210	140
Live Basal Area (sq.ft/a)	208.9	131.6	147.1	165.7	185.8	144.4
Live Total Volume (cu.ft/a)	7644	4415	4432	5238	6018	4836
Crown Competition Factor	200	136	163	184	199	141
Relative Density Index	53.9	36.3	42.6	48.3	52.1	38.9
Mean Diameter (in)	15.0	13.1	11.9	11.8	12.7	13.8
Dead Trees per Acre	0	10	0	10	0	0
Dead Basal Area (sq.ft/a)	0.0	6.5	0.0	6.3	0.0	0.0
Dead Total Volume (cu.ft/a)	0	193	0	181	0	0

8 Years After Treatment (1989)						
Live Trees per Acre	170	140	190	220	210	140
Live Basal Area (sq.ft/a)	214.0	136.1	151.6	170.5	191.5	150.4
Live Total Volume (cu.ft/a)	7963	4673	4650	5502	6320	5130
Crown Competition Factor	204	139	166	188	203	145
Relative Density Index	54.9	37.3	43.6	49.4	53.3	40.1
Mean Diameter (in)	15.2	13.4	12.1	11.9	12.9	14.0
Dead Trees per Acre	0	10	0	10	0	0
Dead Basal Area (sq.ft/a)	0.0	6.5	0.0	6.3	0.0	0.0
Dead Total Volume (cu.ft/a)	0	193	0	181	0	0

10 Years After Treatment (1991)						
Live Trees per Acre	170	140	190	220	210	140
Live Basal Area (sq.ft/a)	223.0	143.5	158.3	177.7	201.4	158.9
Crown Competition Factor	210	144	171	194	210	151
Relative Density Index	56.6	38.8	45.0	50.9	55.3	41.8
Mean Diameter (in)	15.5	13.7	12.4	12.2	13.3	14.4
Dead Trees per Acre	0	10	0	10	0	0
Dead Basal Area (sq.ft/a)	0.0	6.5	0.0	6.3	0.0	0.0
Dead Total Volume (cu.ft/a)	0	193	0	181	0	0

Plot Summary Report

Installation 210 BUCK CREEK
 Region: Northeast Washington Ownership: Inland Empire
 Legal Description: T31N R43E Section 26 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	None	N+K	N+K	N+K	200#N

MENSURATIONAL CHARACTERISTICS:

 At Time of Treatment (1981) Stand Age = 54

Live Trees per Acre	270	340	260	220	290	250
Live Basal Area (sq.ft/a)	132.8	168.8	146.4	133.0	139.0	139.7
Live Total Volume (cu.ft/a)	2830	3635	3543	3442	3689	3671
Crown Competition Factor	148	182	154	150	157	159
Relative Density Index	43.1	54.7	45.9	41.0	45.4	43.9
Mean Diameter (in)	9.5	9.5	10.2	10.5	9.4	10.1
Average Crown Ratio (%)	47.0	46.0	42.0	40.0	36.0	38.0
Site Height (feet)	60.5	62.5	70.6	72.0	77.0	77.6
Species Composition (% of BA)						
Douglas-fir	80.2	74.9	75.2	97.8	82.1	94.2
Western Larch	0.0	0.0	0.0	2.2	2.5	3.1
Lodgepole Pine	0.0	0.0	3.9	0.0	12.1	2.7
Ponderosa Pine	19.8	25.1	20.9	0.0	3.3	0.0

2 Years After Treatment (1983)

Live Trees per Acre	250	340	250	220	290	250
Live Basal Area (sq.ft/a)	136.7	178.5	150.7	139.4	146.7	149.0
Crown Competition Factor	150	191	157	156	164	168
Relative Density Index	43.2	57.0	46.5	42.5	47.3	46.1
Mean Diameter (in)	10.0	9.8	10.5	10.8	9.6	10.5
Dead Trees per Acre	20	0	10	0	0	0
Dead Basal Area (sq.ft/a)	1.2	0.0	3.0	0.0	0.0	0.0

4 Years After Treatment (1985)

Live Trees per Acre	250	310	230	220	270	210
Live Basal Area (sq.ft/a)	143.5	179.5	148.5	145.4	147.4	140.5
Live Total Volume (cu.ft/a)	3317	4214	3856	4000	4179	3950
Crown Competition Factor	155	191	154	160	163	156
Relative Density Index	44.8	55.9	45.0	43.8	46.6	42.2
Mean Diameter (in)	10.3	10.3	10.9	11.0	10.0	11.1
Dead Trees per Acre	20	30	30	0	20	40
Dead Basal Area (sq.ft/a)	1.2	9.5	11.8	0.0	5.9	15.9
Dead Total Volume (cu.ft/a)	11	183	293	3	142	396

6 Years After Treatment (1987)

Live Trees per Acre	250	310	210	220	270	190
Live Basal Area (sq.ft/a)	148.7	188.2	142.4	151.3	154.2	142.6
Live Total Volume (cu.ft/a)	3525	4532	3746	4260	4491	4105
Crown Competition Factor	159	198	148	165	168	156
Relative Density Index	46.0	57.9	42.7	45.2	48.2	41.6
Mean Diameter (in)	10.4	10.6	11.2	11.2	10.2	11.7
Dead Trees per Acre	20	30	50	0	20	60
Dead Basal Area (sq.ft/a)	1.2	9.5	23.3	0.0	5.9	21.3
Dead Total Volume (cu.ft/a)	11	183	629	3	142	540

8 Years After Treatment (1989)

Live Trees per Acre	240	310	210	220	260	190
Live Basal Area (sq.ft/a)	152.1	194.6	147.9	158.4	160.8	150.7
Live Total Volume (cu.ft/a)	3726	4804	3985	4585	4813	4454
Crown Competition Factor	162	204	152	170	173	163
Relative Density Index	46.3	59.4	43.9	46.7	49.3	43.4
Mean Diameter (in)	10.8	10.7	11.4	11.5	10.7	12.1
Dead Trees per Acre	30	30	50	0	30	60
Dead Basal Area (sq.ft/a)	2.2	9.5	23.3	0.0	6.5	21.3
Dead Total Volume (cu.ft/a)	26	183	629	3	150	540

10 Years After Treatment (1991)

Live Trees per Acre	140	290	130	220	250	190
Live Basal Area (sq.ft/a)	79.9	186.6	84.1	168.6	164.1	160.8
Crown Competition Factor	86	195	88	177	174	170
Relative Density Index	25.0	56.6	25.5	49.0	49.6	45.6
Mean Diameter (in)	10.2	10.9	10.9	11.9	11.0	12.5
Dead Trees per Acre	130	50	130	0	40	60
Dead Basal Area (sq.ft/a)	79.1	27.5	91.9	0.0	13.1	21.3
Dead Total Volume (cu.ft/a)	1965	671	2512	3	327	540

Plot Summary Report

Installation 211 HEEL CREEK
 Region: Northeast Washington Ownership: Inland Empire
 Legal Description: T31N R43E Section 20 Meridian: Willamette

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)	None	200#N	200#N	None	N+K	N+K

MENSURATIONAL CHARACTERISTICS:

 At Time of Treatment (1981) Stand Age = 34

Live Trees per Acre	460	490	470	410	480	520
Live Basal Area (sq.ft/a)	166.0	171.9	152.7	182.9	176.8	181.9
Live Total Volume (cu.ft/a)	3574	3813	3367	4266	3810	3884
Crown Competition Factor	205	212	187	212	210	223
Relative Density Index	58.2	60.7	55.0	60.8	61.7	64.3
Mean Diameter (in)	8.1	8.0	7.7	9.0	8.2	8.0
Average Crown Ratio (%)	46.0	44.0	49.0	48.0	54.0	47.0
Site Height (feet)	65.7	64.4	64.5	67.5	66.7	60.8
Species Composition (% of BA)						
Douglas-fir	99.2	98.3	90.9	95.0	86.1	97.2
Grand Fir	0.0	0.0	0.0	0.0	2.5	0.0
Western Larch	0.0	1.7	0.0	0.0	0.0	0.0
Lodgepole Pine	0.0	0.0	0.0	1.5	0.0	0.0
Western White Pine	0.0	0.0	0.0	2.5	0.0	0.6
Ponderosa Pine	0.8	0.0	9.1	1.1	11.5	2.2

2 Years After Treatment (1983)

Live Trees per Acre	460	490	460	390	480	520
Live Basal Area (sq.ft/a)	178.3	190.4	166.5	199.2	194.1	199.5
Crown Competition Factor	217	229	203	227	227	239
Relative Density Index	61.4	65.5	58.3	64.0	66.2	68.9
Mean Diameter (in)	8.4	8.4	8.2	9.7	8.6	8.4
Dead Trees per Acre	0	0	10	20	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	3.4	4.5	0.0	0.0

4 Years After Treatment (1985)

Live Trees per Acre	460	470	390	270	460	510
Live Basal Area (sq.ft/a)	190.8	202.4	166.3	182.5	208.0	214.2
Live Total Volume (cu.ft/a)	4435	4855	3971	4664	4972	4948
Crown Competition Factor	229	241	196	201	236	253
Relative Density Index	64.6	67.9	55.9	54.7	68.9	72.3
Mean Diameter (in)	8.7	8.9	8.8	11.1	9.1	8.8
Dead Trees per Acre	0	20	80	140	20	10
Dead Basal Area (sq.ft/a)	0.0	4.7	20.0	36.3	2.8	1.1
Dead Total Volume (cu.ft/a)	1	93	432	812	44	20

6 Years After Treatment (1987)

Live Trees per Acre	450	430	380	260	450	500
Live Basal Area (sq.ft/a)	200.9	206.8	176.8	191.3	220.9	227.3
Live Total Volume (cu.ft/a)	4826	5076	4340	5061	5451	5424
Crown Competition Factor	238	241	205	206	246	265
Relative Density Index	66.8	67.5	58.2	56.1	71.7	75.2
Mean Diameter (in)	9.1	9.4	9.2	11.6	9.5	9.1
Dead Trees per Acre	10	60	90	150	30	20
Dead Basal Area (sq.ft/a)	1.3	13.1	22.6	40.7	3.7	2.3
Dead Total Volume (cu.ft/a)	25	316	483	914	56	40

8 Years After Treatment (1989)

Live Trees per Acre	430	400	350	220	420	490
Live Basal Area (sq.ft/a)	207.7	208.9	182.9	185.9	227.7	232.1
Live Total Volume (cu.ft/a)	5167	5277	4616	5120	5849	5706
Crown Competition Factor	244	238	209	194	248	267
Relative Density Index	67.7	66.8	58.5	52.7	72.1	76.0
Mean Diameter (in)	9.4	9.8	9.8	12.5	10.0	9.3
Dead Trees per Acre	30	90	120	190	60	30
Dead Basal Area (sq.ft/a)	4.8	25.0	29.9	57.3	11.3	12.8
Dead Total Volume (cu.ft/a)	87	600	660	1292	215	310

10 Years After Treatment (1991)

Live Trees per Acre	430	390	330	210	410	460
Live Basal Area (sq.ft/a)	222.0	226.6	192.8	196.2	244.6	234.1
Crown Competition Factor	256	252	216	200	261	265
Relative Density Index	71.2	70.5	59.9	54.2	75.6	75.3
Mean Diameter (in)	9.7	10.3	10.4	13.1	10.5	9.7
Dead Trees per Acre	30	100	140	200	70	60
Dead Basal Area (sq.ft/a)	4.8	26.8	35.3	60.9	13.6	28.4
Dead Total Volume (cu.ft/a)	87	632	800	1350	257	716

Plot Summary Report

Installation 212 SWAMP CREEK
 Region: Northeast Oregon Ownership: Boise Cascade
 Legal Description: T1N R45E Section 5 Meridian: Willamette

Plot Number	1	2	3	4	5	6
Initial Treatment (1981)	400#N	200#N	0#N	400#N	200#N	0#N
Second Treatment (1987)	200#N	200#N	None	None	None	N+K

MENSURATIONAL CHARACTERISTICS:

At Time of Treatment (1981) Stand Age = 71

Live Trees per Acre	190	210	180	190	220	190
Live Basal Area (sq.ft/a)	71.0	88.6	97.5	86.0	71.6	71.9
Live Total Volume (cu.ft/a)	1618	2090	2349	1956	1532	1658
Crown Competition Factor	89	109	111	102	91	87
Relative Density Index	24.7	29.9	30.9	28.5	25.8	24.9
Mean Diameter (in)	8.3	8.8	10.0	9.1	7.7	8.3
Average Crown Ratio (%)	45.0	44.0	52.0	51.0	49.0	47.0
Site Height (feet)	62.0	64.9	70.2	63.6	61.2	64.6
Species Composition (% of BA)						
Douglas-fir	100.0	100.0	92.7	95.6	100.0	89.6
Western Larch	0.0	0.0	0.0	4.4	0.0	10.4
Ponderosa Pine	0.0	0.0	7.3	0.0	0.0	0.0

2 Years After Treatment (1983)

Live Trees per Acre	190	210	180	190	220	190
Live Basal Area (sq.ft/a)	78.2	95.6	102.5	93.7	81.0	78.6
Crown Competition Factor	95	115	116	109	101	95
Relative Density Index	26.5	31.6	32.1	30.4	28.3	26.6
Mean Diameter (in)	8.7	9.1	10.2	9.5	8.2	8.7
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0

4 Years After Treatment (1985)

Live Trees per Acre	190	210	180	190	220	190
Live Basal Area (sq.ft/a)	83.3	101.7	107.6	99.5	87.9	84.5
Live Total Volume (cu.ft/a)	2011	2530	2739	2414	2005	2063
Crown Competition Factor	101	122	123	114	108	102
Relative Density Index	27.8	33.1	33.3	31.8	30.0	28.1
Mean Diameter (in)	9.0	9.4	10.5	9.8	8.6	9.0
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	0	0

6 Years After Treatment (1987)

Live Trees per Acre	190	210	180	190	220	190
Live Basal Area (sq.ft/a)	88.0	107.3	112.8	105.0	94.3	90.4
Live Total Volume (cu.ft/a)	2163	2721	2926	2599	2201	2244
Crown Competition Factor	107	128	127	118	114	107
Relative Density Index	29.0	34.5	34.5	33.1	31.7	29.6
Mean Diameter (in)	9.2	9.7	10.7	10.1	8.9	9.3
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	0	0

8 Years After Treatment (1989)

Live Trees per Acre	190	210	180	190	220	190
Live Basal Area (sq.ft/a)	92.2	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
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	1	0	0	0	0

10 Years After Treatment (1991)

Live Trees per Acre	190	190	180	190	220	190
Live Basal Area (sq.ft/a)	94.0	112.7	121.6	113.5	103.7	101.6
Crown Competition Factor	113	132	134	126	125	118
Relative Density Index	30.5	34.9	36.5	35.1	34.0	32.3
Mean Diameter (in)	9.5	10.4	11.1	10.5	9.3	9.9
Dead Trees per Acre	0	20	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	3.8	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	88	0	0	0	0

Plot Summary Report

Installation 213 KAMELA
 Region: Northeast Oregon Ownership: Boise Cascade
 Legal Description: T2S R35E Section 3 Meridian: Willamette

Plot Number	1	2	3	4	5	6
Initial Treatment (1981)	0#N	400#N	200#N	0#N	200#N	400#N
Second Treatment (1987)	None	N+K	N+K	N+K	None	None

MENSURATIONAL CHARACTERISTICS:

At Time of Treatment (1981) Stand Age = 80

Live Trees per Acre	140	160	110	100	130	90
Live Basal Area (sq.ft/a)	106.4	106.6	92.5	107.3	93.4	66.7
Live Total Volume (cu.ft/a)	3515	3147	2897	3470	2734	1988
Crown Competition Factor	117	109	94	100	94	69
Relative Density Index	31.0	32.1	26.3	28.6	27.6	19.5
Mean Diameter (in)	11.8	11.1	12.4	14.0	11.5	11.7
Average Crown Ratio (%)	33.0	37.0	38.0	38.0	34.0	40.0
Site Height (feet)	96.1	92.2	95.0	94.1	86.8	91.4
Species Composition (% of BA)						
Douglas-fir	17.8	13.8	41.1	20.9	42.3	30.0
Grand Fir	44.8	22.8	15.0	21.1	9.8	16.0
Western Larch	33.6	59.6	43.9	48.5	45.3	54.0
Engelmann Spruce	3.8	3.7	0.0	9.5	2.6	0.0

2 Years After Treatment (1983)

Live Trees per Acre	140	160	110	100	130	90
Live Basal Area (sq.ft/a)	111.2	114.8	98.6	111.5	98.1	71.2
Crown Competition Factor	120	115	97	103	98	72
Relative Density Index	32.0	33.9	27.5	29.5	28.6	20.5
Mean Diameter (in)	12.1	11.5	12.8	14.3	11.8	12.0
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0

4 Years After Treatment (1985)

Live Trees per Acre	120	150	110	100	100	80
Live Basal Area (sq.ft/a)	102.6	116.3	105.1	115.6	76.2	66.6
Live Total Volume (cu.ft/a)	3530	3566	3391	3837	2207	2021
Crown Competition Factor	110	114	102	107	80	67
Relative Density Index	29.0	33.7	28.9	30.3	22.2	19.0
Mean Diameter (in)	12.5	11.9	13.2	14.6	11.8	12.4
Dead Trees per Acre	20	10	0	0	30	10
Dead Basal Area (sq.ft/a)	13.8	5.6	0.0	0.0	26.6	8.5
Dead Total Volume (cu.ft/a)	408	166	0	0	839	265

6 Years After Treatment (1987)

Live Trees per Acre	120	150	110	100	100	60
Live Basal Area (sq.ft/a)	105.7	122.7	110.2	119.7	80.2	59.0
Live Total Volume (cu.ft/a)	2842	3807	3611	4030	2349	1875
Crown Competition Factor	112	120	106	109	83	55
Relative Density Index	29.7	35.1	29.9	31.1	23.0	16.1
Mean Diameter (in)	12.7	12.3	13.6	14.8	12.1	13.4
Dead Trees per Acre	20	10	0	0	30	30
Dead Basal Area (sq.ft/a)	13.8	5.6	0.0	0.0	26.6	18.2
Dead Total Volume (cu.ft/a)	408	166	0	0	837	502

8 Years After Treatment (1989)

Live Trees per Acre	120	150	110	100	110	60
Live Basal Area (sq.ft/a)	108.4	129.1	115.6	125.1	94.2	61.0
Live Total Volume (cu.ft/a)	3787	4066	3847	4266	2839	1957
Crown Competition Factor	114	125	110	112	95	58
Relative Density Index	30.2	36.4	31.0	32.1	26.6	16.5
Mean Diameter (in)	12.9	12.6	13.9	15.1	12.5	13.7
Dead Trees per Acre	20	10	0	0	20	30
Dead Basal Area (sq.ft/a)	13.8	5.6	0.0	0.0	15.6	18.2
Dead Total Volume (cu.ft/a)	408	166	0	0	456	502

10 Years After Treatment (1991)

Live Trees per Acre	120	150	110	100	100	60
Live Basal Area (sq.ft/a)	111.5	135.4	121.6	130.6	86.2	62.4
Crown Competition Factor	116	130	115	117	88	59
Relative Density Index	30.8	37.8	32.2	33.2	24.3	16.8
Mean Diameter (in)	13.1	12.9	14.2	15.5	12.6	13.8
Dead Trees per Acre	20	10	0	0	30	30
Dead Basal Area (sq.ft/a)	13.8	5.6	0.0	0.0	26.6	18.2
Dead Total Volume (cu.ft/a)	408	166	0	0	840	502

Plot Summary Report

Installation 214 FIFTEENMILE CREEK #1
 Region: Northeast Washington Ownership: Boise Cascade
 Legal Description: T39N R37E Section 25 Meridian: Willamette

Plot Number	1	2	3	4	5	6
Initial Treatment (1981)	200#N	0#N	400#N	0#N	200#N	400#N
Second Treatment (1987)	200#N	None	None	N+K	None	200#N

MENSURATIONAL CHARACTERISTICS:

 At Time of Treatment (1981) Stand Age = 50

Live Trees per Acre	220	170	260	160	190	210
Live Basal Area (sq.ft/a)	65.5	89.6	112.0	93.5	97.2	92.3
Live Total Volume (cu.ft/a)	1331	1960	2517	2056	2283	1983
Crown Competition Factor	84	108	137	108	117	113
Relative Density Index	24.1	28.6	37.6	29.1	31.2	30.8
Mean Diameter (in)	7.4	9.8	8.9	10.4	9.7	9.0
Average Crown Ratio (%)	43.0	53.0	46.0	59.0	47.0	45.0
Site Height (feet)	54.0	62.6	65.6	64.4	65.2	60.9
Species Composition (% of BA)						
Douglas-fir	94.9	97.5	100.0	91.4	100.0	100.0
Grand Fir	0.0	2.5	0.0	5.0	0.0	0.0
Western Redcedar	0.0	0.0	0.0	3.7	0.0	0.0
Western Larch	5.1	0.0	0.0	0.0	0.0	0.0

2 Years After Treatment (1983)

Live Trees per Acre	220	170	260	160	190	210
Live Basal Area (sq.ft/a)	77.3	100.0	127.2	105.2	108.1	104.3
Crown Competition Factor	96	117	152	119	129	125
Relative Density Index	27.3	31.0	41.3	31.8	33.8	33.8
Mean Diameter (in)	8.0	10.4	9.5	11.0	10.2	9.5
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0

4 Years After Treatment (1985)

Live Trees per Acre	220	170	260	160	190	210
Live Basal Area (sq.ft/a)	88.0	110.8	143.0	116.2	119.8	117.4
Live Total Volume (cu.ft/a)	1954	2649	3473	2811	3039	2750
Crown Competition Factor	108	125	167	128	139	138
Relative Density Index	30.1	33.5	45.1	34.2	36.5	36.9
Mean Diameter (in)	8.6	10.9	10.0	11.5	10.8	10.1
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	0	0

6 Years After Treatment (1987)

Live Trees per Acre	220	170	260	160	190	210
Live Basal Area (sq.ft/a)	96.0	119.8	155.2	125.9	128.0	126.9
Live Total Volume (cu.ft/a)	2199	2957	3870	3135	3326	3006
Crown Competition Factor	115	134	177	137	147	147
Relative Density Index	32.1	35.5	48.0	36.3	38.4	39.1
Mean Diameter (in)	9.0	11.4	10.5	12.0	11.1	10.5
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	0	0

8 Years After Treatment (1989)

Live Trees per Acre	220	170	250	160	190	210
Live Basal Area (sq.ft/a)	105.7	127.6	162.9	135.9	134.9	135.9
Live Total Volume (cu.ft/a)	2507	3233	4182	3472	3594	3349
Crown Competition Factor	124	140	185	146	154	155
Relative Density Index	34.5	37.3	49.3	38.5	39.9	41.2
Mean Diameter (in)	9.4	11.7	10.9	12.5	11.4	10.9
Dead Trees per Acre	0	0	10	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	1.7	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	28	0	0	0

10 Years After Treatment (1991)

Live Trees per Acre	220	170	250	160	190	210
Live Basal Area (sq.ft/a)	117.7	138.1	174.8	148.1	142.6	147.1
Crown Competition Factor	137	150	194	156	160	166
Relative Density Index	37.4	39.5	52.0	41.0	41.6	43.7
Mean Diameter (in)	9.9	12.2	11.3	13.0	11.7	11.3
Dead Trees per Acre	0	0	10	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	1.7	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	28	0	0	0

Plot Summary Report

Installation 215 FIFTEENMILE CREEK #2
 Region: Northeast Washington Ownership: Boise Cascade
 Legal Description: T39N R37E Section 25 Meridian: Willamette

Plot Number	1	2	3	4	5	6
Initial Treatment (1981)	0#N	200#N	400#N	200#N	400#N	0#N
Second Treatment (1987)	N+K	200#N	N+K	None	200#N	None

MENSURATIONAL CHARACTERISTICS:

 At Time of Treatment (1981) Stand Age = 51

Live Trees per Acre	180	220	140	240	260	240
Live Basal Area (sq.ft/a)	64.5	69.9	57.7	89.4	90.3	66.7
Live Total Volume (cu.ft/a)	1305	1427	1208	1959	1970	1266
Crown Competition Factor	81	89	71	112	115	88
Relative Density Index	22.7	25.3	19.6	31.1	32.0	25.0
Mean Diameter (in)	8.1	7.6	8.7	8.3	8.0	7.1
Average Crown Ratio (%)	51.0	51.0	54.0	48.0	46.0	50.0
Site Height (feet)	56.6	55.2	54.3	64.9	63.3	50.4
Species Composition (% of BA)						
Douglas-fir	100.0	100.0	100.0	100.0	100.0	100.0

2 Years After Treatment (1983)

Live Trees per Acre	180	220	140	240	260	240
Live Basal Area (sq.ft/a)	73.0	84.2	69.0	104.0	103.2	78.4
Crown Competition Factor	92	104	83	127	128	100
Relative Density Index	24.8	29.1	22.4	34.8	35.3	28.2
Mean Diameter (in)	8.6	8.4	9.5	8.9	8.5	7.7
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0

4 Years After Treatment (1985)

Live Trees per Acre	180	220	140	240	260	240
Live Basal Area (sq.ft/a)	82.3	97.2	80.4	118.3	116.5	89.6
Live Total Volume (cu.ft/a)	1796	2147	1844	2795	2778	1876
Crown Competition Factor	100	119	97	143	141	112
Relative Density Index	27.2	32.4	25.1	38.4	38.7	31.1
Mean Diameter (in)	9.2	9.0	10.3	9.5	9.1	8.3
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	0	0

6 Years After Treatment (1987)

Live Trees per Acre	180	220	140	240	260	240
Live Basal Area (sq.ft/a)	89.8	105.7	88.7	129.5	126.2	98.5
Live Total Volume (cu.ft/a)	2018	2394	2098	3135	3092	2116
Crown Competition Factor	108	131	104	155	152	122
Relative Density Index	29.0	34.5	27.0	41.1	41.1	33.4
Mean Diameter (in)	9.6	9.4	10.8	10.0	9.4	8.7
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	0	0

8 Years After Treatment (1989)

Live Trees per Acre	180	210	140	240	260	240
Live Basal Area (sq.ft/a)	98.0	109.8	96.4	138.1	134.7	106.6
Live Total Volume (cu.ft/a)	2261	2564	2353	3436	3410	2389
Crown Competition Factor	115	134	112	163	160	131
Relative Density Index	31.0	35.1	28.8	43.1	43.1	35.5
Mean Diameter (in)	10.0	9.8	11.2	10.3	9.8	9.0
Dead Trees per Acre	0	10	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	4.6	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	111	0	0	0	0

10 Years After Treatment (1991)

Live Trees per Acre	180	210	140	240	260	240
Live Basal Area (sq.ft/a)	108.2	121.0	105.3	149.1	146.9	115.5
Crown Competition Factor	124	144	119	173	170	140
Relative Density Index	33.4	37.7	30.7	45.6	46.0	37.7
Mean Diameter (in)	10.5	10.3	11.8	10.7	10.2	9.4
Dead Trees per Acre	0	10	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	4.6	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	111	0	0	0	0

Plot Summary Report

Installation 216 SCHMIDT MEADOWS
 Region: Northeast Washington Ownership: Boise Cascade
 Legal Description: T32N R38E Section 28 Meridian: Willamette

Plot Number	1	2	3	4	5	6
Initial Treatment (1981)	0#N	200#N	400#N	400#N	200#N	0#N
Second Treatment (1987)	N+K	None	N+K	None	N+K	None

MENSURATIONAL CHARACTERISTICS:

At Time of Treatment (1981) Stand Age = 66

Live Trees per Acre	320	230	250	320	270	290
Live Basal Area (sq.ft/a)	154.5	138.7	153.7	135.1	117.8	157.4
Live Total Volume (cu.ft/a)	4138	3610	4218	3494	3295	4097
Crown Competition Factor	182	153	170	162	144	179
Relative Density Index	50.4	42.8	47.2	45.6	39.4	49.8
Mean Diameter (in)	9.4	10.5	10.6	8.8	9.0	10.0
Average Crown Ratio (%)	40.0	44.0	43.0	35.0	34.0	40.0
Site Height (feet)	75.1	68.2	72.3	71.8	78.4	75.1
Species Composition (% of BA)						
Douglas-fir	90.1	74.0	78.9	88.6	98.0	84.8
Western Larch	0.0	13.6	0.0	2.4	2.0	5.8
Ponderosa Pine	9.9	12.4	21.1	9.0	0.0	9.4

2 Years After Treatment (1983)

Live Trees per Acre	320	230	250	320	270	290
Live Basal Area (sq.ft/a)	161.9	146.7	162.1	143.5	124.6	163.0
Crown Competition Factor	189	162	177	169	149	184
Relative Density Index	52.2	44.6	49.1	47.7	41.1	51.2
Mean Diameter (in)	9.6	10.8	10.9	9.1	9.2	10.2
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0

4 Years After Treatment (1985)

Live Trees per Acre	300	220	230	310	240	270
Live Basal Area (sq.ft/a)	164.0	148.6	160.4	148.1	123.8	162.9
Live Total Volume (cu.ft/a)	4683	4221	4735	4068	3707	4505
Crown Competition Factor	190	160	173	174	145	182
Relative Density Index	51.8	44.6	47.7	48.4	39.7	50.2
Mean Diameter (in)	10.0	11.1	11.3	9.4	9.7	10.5
Dead Trees per Acre	20	10	20	10	30	20
Dead Basal Area (sq.ft/a)	6.4	6.2	10.3	5.1	7.9	7.7
Dead Total Volume (cu.ft/a)	200	162	284	142	202	213

6 Years After Treatment (1987)

Live Trees per Acre	300	220	230	310	230	260
Live Basal Area (sq.ft/a)	171.9	155.6	167.8	156.3	127.8	165.5
Live Total Volume (cu.ft/a)	5009	4524	5056	4387	3928	4691
Crown Competition Factor	197	167	180	182	148	182
Relative Density Index	53.7	46.1	49.3	50.4	40.2	50.3
Mean Diameter (in)	10.3	11.4	11.6	9.6	10.1	10.8
Dead Trees per Acre	20	10	20	10	40	30
Dead Basal Area (sq.ft/a)	6.4	6.2	10.3	5.1	10.6	12.1
Dead Total Volume (cu.ft/a)	200	162	284	142	267	323

8 Years After Treatment (1989)

Live Trees per Acre	300	220	220	290	230	260
Live Basal Area (sq.ft/a)	178.4	159.7	168.8	154.1	134.0	170.3
Live Total Volume (cu.ft/a)	5318	4751	5207	4393	4214	4924
Crown Competition Factor	205	170	181	180	153	186
Relative Density Index	55.2	47.0	49.0	49.1	41.7	51.5
Mean Diameter (in)	10.4	11.5	11.9	9.9	10.3	11.0
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

10 Years After Treatment (1991)

Live Trees per Acre	300	220	220	290	220	260
Live Basal Area (sq.ft/a)	190.0	167.6	177.9	162.5	139.8	177.8
Crown Competition Factor	215	176	188	187	157	192
Relative Density Index	57.9	48.7	51.0	51.0	42.6	53.1
Mean Diameter (in)	10.8	11.8	12.2	10.1	10.8	11.2
Dead Trees per Acre	20	10	30	30	50	30
Dead Basal Area (sq.ft/a)	6.4	6.2	15.1	12.8	13.1	12.1
Dead Total Volume (cu.ft/a)	200	162	407	363	328	323

Plot Summary Report

Installation 217 EMANUEL CREEK
 Region: Northeast Washington Ownership: Boise Cascade
 Legal Description: T39N R33E Section 29 Meridian: Willamette

Plot Number	1	2	3	4	5	6
Initial Treatment (1981)	200#N	0#N	400#N	400#N	0#N	200#N
Second Treatment (1987)	None	None	N+K	None	N+K	N+K

MENSURATIONAL CHARACTERISTICS:

At Time of Treatment (1981)	Stand Age = 75					
Live Trees per Acre	270	260	120	230	250	180
Live Basal Area (sq.ft/a)	115.8	121.8	102.5	121.2	142.9	77.6
Live Total Volume (cu.ft/a)	2650	2989	2884	2935	3456	1739
Crown Competition Factor	140	144	109	143	162	94
Relative Density Index	38.9	40.0	29.0	38.7	44.7	26.0
Mean Diameter (in)	8.9	9.3	12.5	9.8	10.2	8.9
Average Crown Ratio (%)	44.0	42.0	44.0	48.0	47.0	51.0
Site Height (feet)	67.2	72.9	81.1	67.2	72.8	62.6
Species Composition (% of BA)						
Douglas-fir	96.1	92.5	100.0	100.0	100.0	93.6
Western Larch	3.9	7.6	0.0	0.0	0.0	6.4

2 Years After Treatment (1983)						
Live Trees per Acre	270	260	120	230	250	180
Live Basal Area (sq.ft/a)	127.2	130.3	111.2	135.1	151.1	86.3
Crown Competition Factor	151	151	116	156	170	102
Relative Density Index	41.7	42.1	30.8	41.9	46.6	28.2
Mean Diameter (in)	9.3	9.6	13.0	10.4	10.5	9.4
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0

4 Years After Treatment (1985)						
Live Trees per Acre	270	260	120	230	250	170
Live Basal Area (sq.ft/a)	136.0	137.2	117.4	145.4	158.1	91.4
Live Total Volume (cu.ft/a)	3327	3564	3524	3738	4049	2198
Crown Competition Factor	161	159	120	165	176	108
Relative Density Index	43.9	43.7	32.1	44.3	48.2	29.0
Mean Diameter (in)	9.6	9.8	13.4	10.8	10.8	9.9
Dead Trees per Acre	0	0	0	0	0	10
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	1.4
Dead Total Volume (cu.ft/a)	0	0	0	0	0	28

6 Years After Treatment (1987)						
Live Trees per Acre	260	260	120	230	250	170
Live Basal Area (sq.ft/a)	142.1	144.0	123.8	154.5	165.5	99.1
Live Total Volume (cu.ft/a)	3508	3827	3812	4084	4352	2452
Crown Competition Factor	165	164	125	173	182	115
Relative Density Index	44.9	45.4	33.4	46.4	49.9	30.8
Mean Diameter (in)	10.0	10.1	13.8	11.1	11.0	10.3
Dead Trees per Acre	10	0	0	0	0	10
Dead Basal Area (sq.ft/a)	1.4	0.0	0.0	0.0	0.0	1.4
Dead Total Volume (cu.ft/a)	21	0	0	0	0	28

8 Years After Treatment (1989)						
Live Trees per Acre	260	260	120	230	250	170
Live Basal Area (sq.ft/a)	147.1	147.5	127.8	160.9	172.2	105.8
Live Total Volume (cu.ft/a)	3791	4022	4030	4345	4642	2688
Crown Competition Factor	170	167	128	178	189	121
Relative Density Index	46.1	46.2	34.2	47.8	51.4	32.4
Mean Diameter (in)	10.2	10.2	14.0	11.3	11.2	10.7
Dead Trees per Acre	10	0	0	0	0	10
Dead Basal Area (sq.ft/a)	1.4	0.0	0.0	0.0	0.0	1.4
Dead Total Volume (cu.ft/a)	21	0	0	0	0	28

10 Years After Treatment (1991)						
Live Trees per Acre	260	260	120	230	250	170
Live Basal Area (sq.ft/a)	156.0	155.0	134.8	171.9	183.2	116.5
Crown Competition Factor	177	173	132	191	197	130
Relative Density Index	48.2	47.9	35.6	50.2	53.8	34.8
Mean Diameter (in)	10.5	10.5	14.4	11.7	11.6	11.2
Dead Trees per Acre	10	0	0	0	0	10
Dead Basal Area (sq.ft/a)	1.4	0.0	0.0	0.0	0.0	1.4
Dead Total Volume (cu.ft/a)	21	0	0	0	0	28

Plot Summary Report

Installation 218 SECOND CREEK
 Region: Northeast Washington Ownership: Boise Cascade
 Legal Description: T39N R34E Section 13 Meridian: Willamette

Plot Number	1	2	3	4	5	6
Initial Treatment (1981)	400#N	200#N	0#N	200#N	400#N	0#N
Second Treatment (1987)	None	200#N	None	None	200#N	N+K

MENSURATIONAL CHARACTERISTICS:

At Time of Treatment (1981)	Stand Age = 100					
Live Trees per Acre	150	170	170	130	120	170
Live Basal Area (sq.ft/a)	92.2	102.7	92.0	90.5	79.8	111.0
Live Total Volume (cu.ft/a)	2215	2426	1924	2276	1893	2747
Crown Competition Factor	102	120	109	101	90	124
Relative Density Index	28.3	31.7	29.1	26.9	24.0	33.6
Mean Diameter (in)	10.6	10.5	10.0	11.3	11.0	10.9
Average Crown Ratio (%)	39.0	44.0	49.0	39.0	46.0	42.0
Site Height (feet)	69.2	64.0	57.6	72.4	66.8	70.7
Species Composition (% of BA)						
Douglas-fir	95.6	100.0	100.0	100.0	100.0	95.2
Western Larch	4.4	0.0	0.0	0.0	0.0	4.8

2 Years After Treatment (1983)						
Live Trees per Acre	150	170	170	130	120	170
Live Basal Area (sq.ft/a)	103.0	113.4	100.6	98.3	89.0	122.2
Crown Competition Factor	112	132	118	109	100	134
Relative Density Index	30.8	34.1	31.2	28.6	26.1	36.1
Mean Diameter (in)	11.2	11.1	10.4	11.8	11.7	11.5
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0

4 Years After Treatment (1985)						
Live Trees per Acre	150	170	170	130	120	170
Live Basal Area (sq.ft/a)	112.3	123.0	109.2	105.1	97.3	131.5
Live Total Volume (cu.ft/a)	2851	3036	2394	2729	2407	3407
Crown Competition Factor	122	140	124	114	106	142
Relative Density Index	32.8	36.2	33.1	30.1	27.9	38.1
Mean Diameter (in)	11.7	11.5	10.9	12.2	12.2	11.9
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	0	0

6 Years After Treatment (1987)						
Live Trees per Acre	150	170	170	130	120	170
Live Basal Area (sq.ft/a)	120.6	129.9	115.7	111.0	103.6	140.2
Live Total Volume (cu.ft/a)	3116	3268	2577	2935	2605	3693
Crown Competition Factor	129	146	129	120	111	149
Relative Density Index	34.6	37.8	34.6	31.4	29.2	40.0
Mean Diameter (in)	12.1	11.8	11.2	12.5	12.6	12.3
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	0	0

8 Years After Treatment (1989)						
Live Trees per Acre	150	170	140	130	120	170
Live Basal Area (sq.ft/a)	125.7	134.1	107.9	114.3	107.4	146.6
Live Total Volume (cu.ft/a)	3294	3420	2448	3051	2736	3940
Crown Competition Factor	133	149	119	122	115	154
Relative Density Index	35.7	38.7	31.3	32.1	30.0	41.4
Mean Diameter (in)	12.4	12.0	11.9	12.7	12.8	12.6
Dead Trees per Acre	0	0	30	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	11.9	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	245	0	0	0

10 Years After Treatment (1991)						
Live Trees per Acre	140	170	140	130	120	170
Live Basal Area (sq.ft/a)	132.1	144.4	116.1	121.1	116.6	157.7
Crown Competition Factor	136	156	125	128	121	162
Relative Density Index	36.4	40.9	33.1	33.5	31.9	43.7
Mean Diameter (in)	13.2	12.5	12.3	13.1	13.4	13.0
Dead Trees per Acre	10	0	30	0	0	0
Dead Basal Area (sq.ft/a)	2.6	0.0	11.9	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	60	0	245	0	0	0

Plot Summary Report

Installation 219 LITTLE SALMON
 Region: Central Idaho Ownership: Boise Cascade
 Legal Description: T18N R1E Section 13 Meridian: Boise

Plot Number	1	2	3	4	5	6
Initial Treatment (1981)	400#N	200#N	0#N	400#N	0#N	200#N
Second Treatment (1987)	None	200#N	N+K	200#N	None	N+K

MENSURATIONAL CHARACTERISTICS:

At Time of Treatment (1981) Stand Age = 67

Live Trees per Acre	240	170	290	270	220	270
Live Basal Area (sq.ft/a)	143.0	109.6	142.7	137.1	96.8	140.0
Live Total Volume (cu.ft/a)	3699	2648	3456	3015	1987	2717
Crown Competition Factor	150	118	168	138	112	142
Relative Density Index	44.2	33.3	46.3	44.1	32.3	44.8
Mean Diameter (in)	10.5	10.9	9.5	9.7	9.0	9.8
Average Crown Ratio (%)	44.0	47.0	43.0	49.0	46.0	55.0
Site Height (feet)	73.3	68.4	71.3	60.4	55.3	57.1
Species Composition (% of BA)						
Douglas-fir	77.1	82.8	94.4	43.6	83.3	60.2
Ponderosa Pine	22.9	17.2	5.6	56.4	16.7	39.8

2 Years After Treatment (1983)

Live Trees per Acre	240	170	290	270	220	270
Live Basal Area (sq.ft/a)	155.4	121.6	151.5	150.1	102.7	149.4
Crown Competition Factor	161	127	177	150	119	149
Relative Density Index	47.1	35.9	48.4	47.2	33.8	47.1
Mean Diameter (in)	10.9	11.5	9.8	10.1	9.3	10.1
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0

4 Years After Treatment (1985)

Live Trees per Acre	240	170	290	270	220	270
Live Basal Area (sq.ft/a)	165.8	130.2	160.0	161.6	109.0	159.4
Live Total Volume (cu.ft/a)	4501	3360	4064	3766	2391	3354
Crown Competition Factor	169	135	186	159	125	156
Relative Density Index	49.4	37.8	50.5	49.9	35.3	49.4
Mean Diameter (in)	11.3	11.9	10.1	10.5	9.5	10.4
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	0	0

6 Years After Treatment (1987)

Live Trees per Acre	240	170	290	270	220	260
Live Basal Area (sq.ft/a)	174.2	137.8	167.2	172.7	114.3	164.9
Live Total Volume (cu.ft/a)	4840	3643	4334	4131	2571	3573
Crown Competition Factor	176	140	192	168	130	159
Relative Density Index	51.3	39.5	52.2	52.5	36.6	50.2
Mean Diameter (in)	11.5	12.2	10.3	10.8	9.8	10.8
Dead Trees per Acre	0	0	0	0	0	10
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	3.4
Dead Total Volume (cu.ft/a)	1	0	0	0	0	62

8 Years After Treatment (1989)

Live Trees per Acre	240	170	290	250	220	260
Live Basal Area (sq.ft/a)	181.7	144.9	175.0	174.5	119.9	173.9
Live Total Volume (cu.ft/a)	5135	3908	4609	4316	2740	3860
Crown Competition Factor	182	145	199	169	135	166
Relative Density Index	52.9	41.0	54.0	51.9	37.9	52.3
Mean Diameter (in)	11.8	12.5	10.5	11.3	10.0	11.1
Dead Trees per Acre	0	0	0	20	0	10
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	7.0	0.0	3.4
Dead Total Volume (cu.ft/a)	1	0	0	132	0	62

10 Years After Treatment (1991)

Live Trees per Acre	240	170	280	250	220	260
Live Basal Area (sq.ft/a)	188.1	151.0	179.6	181.4	125.1	182.3
Crown Competition Factor	186	150	201	174	139	173
Relative Density Index	54.3	42.3	54.5	53.4	39.2	54.1
Mean Diameter (in)	12.0	12.8	10.9	11.5	10.2	11.3
Dead Trees per Acre	0	0	10	20	0	10
Dead Basal Area (sq.ft/a)	0.0	0.0	2.0	7.0	0.0	3.4
Dead Total Volume (cu.ft/a)	1	0	48	132	0	62

Plot Number	1	2	3	4	5	6
Initial Treatment (1981)	400#N	0#N	400#N	200#N	0#N	200#N
Second Treatment (1987)	None	None	200#N	200#N	N+K	None

MENSURATIONAL CHARACTERISTICS:

At Time of Treatment (1981) Stand Age = 89

	1	2	3	4	5	6
Live Trees per Acre	340	240	300	190	310	230
Live Basal Area (sq.ft/a)	110.6	104.1	85.7	84.9	125.7	117.7
Live Total Volume (cu.ft/a)	2441	2509	1663	1936	3161	3334
Crown Competition Factor	139	128	109	101	162	142
Relative Density Index	39.8	34.9	31.8	28.2	42.8	37.8
Mean Diameter (in)	7.7	8.9	7.2	9.1	8.6	9.7
Average Crown Ratio (%)	44.0	43.0	44.0	48.0	38.0	39.0
Site Height (feet)	59.8	69.2	53.4	61.7	64.2	79.1
Species Composition (% of BA)						
Douglas-fir	95.6	97.3	96.5	90.9	63.2	85.9
Grand Fir	0.0	2.7	0.0	3.2	29.9	14.1
Western Larch	0.0	0.0	0.0	0.0	6.9	0.0
Lodgepole Pine	3.1	0.0	0.0	0.0	0.0	0.0
Ponderosa Pine	1.3	0.0	3.5	5.9	0.0	0.0

2 Years After Treatment (1983)

Live Trees per Acre	340	240	300	190	300	220
Live Basal Area (sq.ft/a)	119.2	109.8	91.8	92.6	126.9	120.3
Crown Competition Factor	148	134	115	110	161	143
Relative Density Index	42.1	36.3	33.6	30.1	42.8	38.0
Mean Diameter (in)	8.0	9.2	7.5	9.5	8.8	10.0
Dead Trees per Acre	0	0	0	0	10	10
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	3.1	2.7

4 Years After Treatment (1985)

Live Trees per Acre	330	240	300	190	300	220
Live Basal Area (sq.ft/a)	125.9	116.6	97.1	99.5	131.5	126.7
Live Total Volume (cu.ft/a)	2872	2853	1950	2370	3333	3638
Crown Competition Factor	155	141	120	116	165	148
Relative Density Index	43.5	38.0	35.0	31.8	43.9	39.5
Mean Diameter (in)	8.4	9.4	7.7	9.8	9.0	10.3
Dead Trees per Acre	10	0	0	0	10	10
Dead Basal Area (sq.ft/a)	1.5	0.0	0.0	0.0	3.1	2.7
Dead Total Volume (cu.ft/a)	33	0	0	0	76	59

6 Years After Treatment (1987)

Live Trees per Acre	330	240	300	190	290	220
Live Basal Area (sq.ft/a)	132.2	123.3	101.4	105.5	135.1	132.5
Live Total Volume (cu.ft/a)	3051	3029	2069	2571	3472	3823
Crown Competition Factor	161	146	124	120	168	153
Relative Density Index	45.2	39.6	36.1	33.2	44.5	40.9
Mean Diameter (in)	8.6	9.7	7.9	10.1	9.2	10.5
Dead Trees per Acre	10	0	0	0	20	10
Dead Basal Area (sq.ft/a)	1.5	0.0	0.0	0.0	5.7	2.7
Dead Total Volume (cu.ft/a)	33	0	0	0	114	59

8 Years After Treatment (1989)

Live Trees per Acre	330	240	290	190	280	220
Live Basal Area (sq.ft/a)	138.1	129.2	105.5	113.3	133.6	137.1
Live Total Volume (cu.ft/a)	3210	3189	2197	2824	3416	3977
Crown Competition Factor	167	151	128	128	165	158
Relative Density Index	46.7	41.0	36.9	35.0	43.7	41.9
Mean Diameter (in)	8.8	9.9	8.2	10.5	9.4	10.7
Dead Trees per Acre	10	0	10	0	30	10
Dead Basal Area (sq.ft/a)	1.5	0.0	0.6	0.0	14.2	2.7
Dead Total Volume (cu.ft/a)	33	0	4	0	368	61

10 Years After Treatment (1991)

Live Trees per Acre	330	240	290	190	250	220
Live Basal Area (sq.ft/a)	141.7	133.6	108.9	120.3	128.8	140.9
Crown Competition Factor	171	155	131	133	152	160
Relative Density Index	47.6	42.0	37.8	36.7	41.3	42.8
Mean Diameter (in)	8.9	10.1	8.3	10.8	9.7	10.8
Dead Trees per Acre	10	0	10	0	60	10
Dead Basal Area (sq.ft/a)	1.5	0.0	0.6	0.0	25.6	2.7
Dead Total Volume (cu.ft/a)	33	0	4	0	621	61

Plot Summary Report

Installation 221 LITTLE MUD CREEK #1
 Region: Central Idaho Ownership: Boise Cascade
 Legal Description: T20N R1E Section 33 Meridian: Boise

Plot Number	1	2	3	4	5	6
Initial Treatment (1981)	0#N	200#N	400#N	200#N	0#N	400#N
Second Treatment (1987)	None	None	None	200#N	N+K	200#N

MENSURATIONAL CHARACTERISTICS:

 At Time of Treatment (1981) Stand Age = 82

Live Trees per Acre	230	170	210	170	160	140
Live Basal Area (sq.ft/a)	149.8	95.0	104.7	116.6	149.4	93.1
Live Total Volume (cu.ft/a)	3969	2259	2232	2597	4245	2214
Crown Competition Factor	156	107	117	125	149	101
Relative Density Index	45.3	29.8	33.9	34.8	41.3	28.0
Mean Diameter (in)	10.9	10.1	9.6	11.2	13.1	11.0
Average Crown Ratio (%)	45.0	60.0	54.0	52.0	41.0	49.0
Site Height (feet)	79.2	76.2	64.0	65.7	83.1	70.5
Species Composition (% of BA)						
Douglas-fir	65.2	95.7	84.2	95.8	95.3	90.4
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	9.7
Engelmann Spruce	2.8	0.0	0.0	0.0	0.0	0.0

2 Years After Treatment (1983)

Live Trees per Acre	220	170	210	170	160	140
Live Basal Area (sq.ft/a)	150.8	103.0	111.6	125.4	157.2	98.7
Crown Competition Factor	157	115	124	133	156	106
Relative Density Index	45.1	31.7	35.5	36.8	42.9	29.3
Mean Diameter (in)	11.2	10.5	9.9	11.6	13.4	11.4
Dead Trees per Acre	10	0	0	0	0	0
Dead Basal Area (sq.ft/a)	4.2	0.0	0.0	0.0	0.0	0.0

4 Years After Treatment (1985)

Live Trees per Acre	220	170	210	170	160	140
Live Basal Area (sq.ft/a)	157.2	110.2	119.1	133.7	165.0	103.9
Live Total Volume (cu.ft/a)	4317	2745	2680	3105	4834	2563
Crown Competition Factor	162	121	132	139	161	110
Relative Density Index	46.5	33.4	37.3	38.6	44.5	30.4
Mean Diameter (in)	11.5	10.9	10.2	12.0	13.8	11.7
Dead Trees per Acre	10	0	0	0	0	0
Dead Basal Area (sq.ft/a)	4.2	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	88	0	0	0	0	0

6 Years After Treatment (1987)

Live Trees per Acre	220	170	210	170	160	140
Live Basal Area (sq.ft/a)	162.8	118.0	127.5	142.9	171.6	109.7
Live Total Volume (cu.ft/a)	4557	2997	2950	3379	5122	2752
Crown Competition Factor	167	128	140	147	166	115
Relative Density Index	47.7	35.1	39.3	40.6	45.8	31.7
Mean Diameter (in)	11.7	11.3	10.6	12.4	14.0	12.0
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

8 Years After Treatment (1989)

Live Trees per Acre	220	170	210	170	160	130
Live Basal Area (sq.ft/a)	170.6	127.3	136.8	152.2	179.7	105.7
Live Total Volume (cu.ft/a)	4853	3293	3236	3669	5446	2617
Crown Competition Factor	173	136	148	156	173	113
Relative Density Index	49.4	37.2	41.4	42.5	47.4	30.3
Mean Diameter (in)	11.9	11.7	10.9	12.8	14.4	12.2
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

10 Years After Treatment (1991)

Live Trees per Acre	220	170	210	170	160	130
Live Basal Area (sq.ft/a)	177.1	136.1	145.5	160.8	186.4	111.5
Crown Competition Factor	178	143	155	163	178	117
Relative Density Index	50.8	39.1	43.3	44.3	48.8	31.5
Mean Diameter (in)	12.2	12.1	11.3	13.2	14.6	12.5
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

Plot Summary Report

Installation 222 WEST MILL CREEK #1
 Region: Central Idaho Ownership: IDL
 Legal Description: T18N R3W Section 36 Meridian: Boise

Plot Number	1	2	3	4	5	6
Initial Treatment (1981)	400#N	0#N	200#N	400#N	0#N	200#N
Second Treatment (1987)	200#N	None	N+K	N+K	N+K	None

MENSURATIONAL CHARACTERISTICS:

 At Time of Treatment (1981) Stand Age = 71

Live Trees per Acre	580	380	250	280	400	240
Live Basal Area (sq.ft/a)	161.5	118.4	119.7	138.8	168.1	125.3
Live Total Volume (cu.ft/a)	3590	2607	2575	3770	3744	2622
Crown Competition Factor	208	149	146	157	198	137
Relative Density Index	60.4	43.1	39.1	45.0	56.7	40.1
Mean Diameter (in)	7.2	7.6	9.4	9.5	8.8	9.8
Average Crown Ratio (%)	28.0	43.0	43.0	44.0	41.0	48.0
Site Height (feet)	58.9	60.8	58.4	77.8	63.0	65.1
Species Composition (% of BA)						
Douglas-fir	94.2	90.6	100.0	82.2	85.9	87.1
Grand Fir	0.0	0.0	0.0	4.6	0.0	0.0
Ponderosa Pine	5.8	9.4	0.0	13.2	14.1	12.9

2 Years After Treatment (1983)

Live Trees per Acre	580	380	250	280	400	240
Live Basal Area (sq.ft/a)	172.5	127.8	130.0	150.5	177.1	132.7
Crown Competition Factor	218	159	155	170	206	144
Relative Density Index	63.5	45.6	41.6	47.8	59.0	41.8
Mean Diameter (in)	7.4	7.9	9.8	9.9	9.0	10.1
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0

4 Years After Treatment (1985)

Live Trees per Acre	580	380	250	280	400	240
Live Basal Area (sq.ft/a)	182.0	137.5	138.5	161.1	187.0	139.1
Live Total Volume (cu.ft/a)	4178	3215	3160	4544	4354	3023
Crown Competition Factor	229	168	162	180	216	150
Relative Density Index	66.1	48.2	43.6	50.3	61.5	43.3
Mean Diameter (in)	7.6	8.2	10.1	10.3	9.3	10.3
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	0	0

6 Years After Treatment (1987)

Live Trees per Acre	570	380	250	280	400	240
Live Basal Area (sq.ft/a)	186.9	143.5	144.5	170.1	192.5	142.8
Live Total Volume (cu.ft/a)	4347	3410	3357	4880	4569	3158
Crown Competition Factor	233	174	169	187	221	153
Relative Density Index	67.1	49.7	45.0	52.4	62.8	44.2
Mean Diameter (in)	7.8	8.3	10.3	10.6	9.4	10.4
Dead Trees per Acre	10	0	0	0	0	0
Dead Basal Area (sq.ft/a)	1.3	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	27	0	0	0	0	0

8 Years After Treatment (1989)

Live Trees per Acre	550	380	250	280	400	240
Live Basal Area (sq.ft/a)	189.8	148.0	149.1	175.8	199.0	146.6
Live Total Volume (cu.ft/a)	4456	3568	3506	5122	4796	3279
Crown Competition Factor	235	179	174	191	226	156
Relative Density Index	67.3	50.9	46.1	53.7	64.4	45.1
Mean Diameter (in)	8.0	8.5	10.5	10.7	9.6	10.6
Dead Trees per Acre	30	0	0	0	0	0
Dead Basal Area (sq.ft/a)	3.4	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	75	0	0	0	0	0

10 Years After Treatment (1991)

Live Trees per Acre	510	380	250	270	400	240
Live Basal Area (sq.ft/a)	182.4	151.8	152.6	173.8	204.2	149.5
Crown Competition Factor	225	183	176	186	231	158
Relative Density Index	64.1	51.9	46.9	52.7	65.7	45.7
Mean Diameter (in)	8.1	8.6	10.6	10.9	9.7	10.7
Dead Trees per Acre	70	0	0	10	0	0
Dead Basal Area (sq.ft/a)	13.5	0.0	0.0	7.1	0.0	0.0
Dead Total Volume (cu.ft/a)	318	0	0	223	0	0

Plot Summary Report

Installation 223 WEST MILL CREEK #2
 Region: Central Idaho Ownership: IDL
 Legal Description: T18N R3W Section 36 Meridian: Boise

Plot Number	1	2	3	4	5	6
Initial Treatment (1981)	0#N	200#N	400#N	200#N	0#N	400#N
Second Treatment (1987)	None	None	None	N+K	N+K	N+K

MENSURATIONAL CHARACTERISTICS:

 At Time of Treatment (1981) Stand Age = 75

Live Trees per Acre	260	250	250	250	180	160
Live Basal Area (sq.ft/a)	107.9	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
Average Crown Ratio (%)	46.0	44.0	47.0	52.0	45.0	65.0
Site Height (feet)	64.1	60.7	70.5	66.9	77.6	66.0
Species Composition (% of BA)						
Douglas-fir	85.5	94.8	58.3	67.5	94.3	94.4
Grand Fir	0.0	0.0	4.7	0.0	0.0	0.0
Ponderosa Pine	14.5	5.2	37.0	32.5	5.8	5.6

2 Years After Treatment (1983)

Live Trees per Acre	260	250	250	250	180	160
Live Basal Area (sq.ft/a)	116.5	102.0	127.8	131.2	142.8	106.7
Crown Competition Factor	130	124	135	139	151	115
Relative Density Index	38.7	34.7	41.1	41.9	41.1	32.1
Mean Diameter (in)	9.1	8.7	9.7	9.8	12.1	11.1
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0

4 Years After Treatment (1985)

Live Trees per Acre	260	250	250	250	180	160
Live Basal Area (sq.ft/a)	125.3	110.8	138.8	144.0	149.5	112.7
Live Total Volume (cu.ft/a)	2991	2624	3783	3716	4344	2634
Crown Competition Factor	137	134	145	152	157	119
Relative Density Index	40.9	36.9	43.7	44.9	42.6	33.4
Mean Diameter (in)	9.4	9.0	10.1	10.3	12.3	11.4
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	0	0

6 Years After Treatment (1987)

Live Trees per Acre	260	250	250	250	180	150
Live Basal Area (sq.ft/a)	133.0	117.5	147.3	153.0	154.2	113.4
Live Total Volume (cu.ft/a)	3253	2839	4128	4047	4531	2699
Crown Competition Factor	144	140	152	159	160	118
Relative Density Index	42.7	38.6	45.7	47.0	43.6	33.1
Mean Diameter (in)	9.7	9.3	10.4	10.6	12.5	11.8
Dead Trees per Acre	0	0	0	0	0	10
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	3.6
Dead Total Volume (cu.ft/a)	0	0	0	0	0	89

8 Years After Treatment (1989)

Live Trees per Acre	260	250	240	250	180	150
Live Basal Area (sq.ft/a)	139.1	122.3	144.9	161.1	159.6	117.4
Live Total Volume (cu.ft/a)	3458	2995	4100	4356	4727	2825
Crown Competition Factor	149	145	147	165	164	121
Relative Density Index	44.2	39.7	44.7	48.9	44.7	33.9
Mean Diameter (in)	9.9	9.5	10.5	10.9	12.8	12.0
Dead Trees per Acre	0	0	10	0	0	10
Dead Basal Area (sq.ft/a)	0.0	0.0	7.9	0.0	0.0	3.6
Dead Total Volume (cu.ft/a)	0	0	257	0	0	89

10 Years After Treatment (1991)

Live Trees per Acre	260	250	240	250	180	150
Live Basal Area (sq.ft/a)	144.2	125.3	149.5	167.2	164.5	121.0
Crown Competition Factor	154	147	151	170	168	124
Relative Density Index	45.4	40.5	45.7	50.2	45.7	34.7
Mean Diameter (in)	10.1	9.6	10.7	11.1	12.9	12.2
Dead Trees per Acre	0	0	10	0	0	10
Dead Basal Area (sq.ft/a)	0.0	0.0	7.9	0.0	0.0	3.6
Dead Total Volume (cu.ft/a)	0	0	246	0	0	89

Plot Summary Report

Installation 224 KAISER BUTTE #1
 Region: Central Washington Ownership: Boise Cascade
 Legal Description: T6N R15E Section 20 Meridian: Willamette

Plot Number	1	2	3	4	5	6
Initial Treatment (1981)	0#N	200#N	400#N	0#N	200#N	400#N
Second Treatment (1987)	None	200#N	200#N	N+K	None	None

MENSURATIONAL CHARACTERISTICS:

At Time of Treatment (1981) Stand Age = 74

Live Trees per Acre	90	130	90	100	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	5890	7051	6788
Crown Competition Factor	115	145	119	136	163	135
Relative Density Index	31.2	40.7	33.6	38.0	45.7	38.6
Mean Diameter (in)	15.9	14.9	16.8	16.9	17.0	19.0
Average Crown Ratio (%)	40.0	50.0	45.0	44.0	47.0	50.0
Site Height (feet)	105.0	113.9	117.4	117.5	114.6	120.8
Species Composition (% of BA)						
Douglas-fir	85.9	86.4	98.8	97.8	94.9	96.5
Grand Fir	14.2	13.6	1.2	2.2	5.1	3.5

2 Years After Treatment (1983)

Live Trees per Acre	85	130	90	100	120	85
Live Basal Area (sq.ft/a)	129.6	169.3	149.2	164.2	201.3	179.6
Crown Competition Factor	117	155	127	141	173	143
Relative Density Index	31.7	43.1	35.7	39.4	48.1	40.5
Mean Diameter (in)	16.7	15.5	17.4	17.3	17.5	19.7
Dead Trees per Acre	5	0	0	0	0	0
Dead Basal Area (sq.ft/a)	3.1	0.0	0.0	0.0	0.0	0.0

4 Years After Treatment (1985)

Live Trees per Acre	85	125	90	100	120	85
Live Basal Area (sq.ft/a)	138.1	180.2	160.9	173.1	215.1	190.9
Live Total Volume (cu.ft/a)	4993	6711	6371	6677	8271	7823
Crown Competition Factor	122	161	134	147	182	151
Relative Density Index	33.2	44.7	37.8	41.0	50.5	42.4
Mean Diameter (in)	17.3	16.3	18.1	17.8	18.1	20.3
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

6 Years After Treatment (1987)

Live Trees per Acre	85	125	90	100	120	85
Live Basal Area (sq.ft/a)	147.2	192.5	171.9	181.6	227.9	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
Dead Trees per Acre	5	5	0	0	0	0
Dead Basal Area (sq.ft/a)	3.1	1.7	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	81	51	1	0	1	0

8 Years After Treatment (1989)

Live Trees per Acre	85	125	90	100	120	85
Live Basal Area (sq.ft/a)	154.5	202.7	179.7	190.5	238.0	209.2
Live Total Volume (cu.ft/a)	5666	7668	7214	7488	9319	8701
Crown Competition Factor	133	177	148	159	196	162
Relative Density Index	36.2	48.8	41.1	44.1	54.5	45.4
Mean Diameter (in)	18.3	17.2	19.1	18.7	19.1	21.2
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

10 Years After Treatment (1991)

Live Trees per Acre	85	120	90	100	120	80
Live Basal Area (sq.ft/a)	160.4	209.3	185.8	197.2	246.4	194.6
Crown Competition Factor	137	180	152	163	202	151
Relative Density Index	37.2	49.5	42.1	45.2	55.9	42.4
Mean Diameter (in)	18.6	17.9	19.5	19.0	19.4	21.1
Dead Trees per Acre	5	10	0	0	0	5
Dead Basal Area (sq.ft/a)	3.1	2.8	0.0	0.0	0.0	20.3
Dead Total Volume (cu.ft/a)	81	73	1	0	1	938

Plot Summary Report

Installation 225 BOWMAN CREEK
 Region: Central Washington Ownership: Boise Cascade
 Legal Description: T5N R15E Section 18 Meridian: Willamette

Plot Number	1	2	3	4	5	6
Initial Treatment (1981)	400#N	0#N	200#N	400#N	200#N	0#N
Second Treatment (1987)	N+K	None	N+K	None	200#N	N+K

MENSURATIONAL CHARACTERISTICS:

 At Time of Treatment (1981) Stand Age = 85

Live Trees per Acre	150	160	150	160	180	160
Live Basal Area (sq.ft/a)	87.7	90.8	98.0	111.3	156.7	114.2
Live Total Volume (cu.ft/a)	2132	2292	2409	2969	4102	2995
Crown Competition Factor	99	107	110	121	165	126
Relative Density Index	27.2	28.4	29.6	33.1	44.1	33.8
Mean Diameter (in)	10.4	10.2	11.0	11.3	12.6	11.4
Average Crown Ratio (%)	49.0	41.0	46.0	50.0	48.0	40.0
Site Height (feet)	70.7	70.3	68.7	81.3	74.5	76.1
Species Composition (% of BA)						
Douglas-fir	100.0	100.0	100.0	96.7	100.0	100.0
Ponderosa Pine	0.0	0.0	0.0	3.3	0.0	0.0

2 Years After Treatment (1983)

Live Trees per Acre	150	160	150	160	180	160
Live Basal Area (sq.ft/a)	102.5	99.6	110.3	124.7	166.8	121.7
Crown Competition Factor	112	115	123	132	173	133
Relative Density Index	30.6	30.5	32.4	36.1	46.2	35.4
Mean Diameter (in)	11.2	10.7	11.6	12.0	13.0	11.8
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0

4 Years After Treatment (1985)

Live Trees per Acre	150	160	150	160	180	160
Live Basal Area (sq.ft/a)	117.7	109.5	123.5	138.0	178.9	130.2
Live Total Volume (cu.ft/a)	3104	2890	3265	3968	4908	3583
Crown Competition Factor	125	123	133	143	182	140
Relative Density Index	34.0	32.7	35.2	38.9	48.7	37.3
Mean Diameter (in)	12.0	11.2	12.3	12.6	13.5	12.2
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	0	0

6 Years After Treatment (1987)

Live Trees per Acre	150	160	150	160	180	160
Live Basal Area (sq.ft/a)	130.1	117.8	133.6	148.1	187.1	137.8
Live Total Volume (cu.ft/a)	3502	3158	3601	4353	5206	3867
Crown Competition Factor	134	130	141	150	189	146
Relative Density Index	36.6	34.6	37.4	41.0	50.4	38.9
Mean Diameter (in)	12.6	11.6	12.8	13.0	13.8	12.6
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	0	0

8 Years After Treatment (1989)

Live Trees per Acre	150	160	150	160	180	160
Live Basal Area (sq.ft/a)	139.2	124.5	142.1	155.6	195.6	146.5
Live Total Volume (cu.ft/a)	3833	3403	3931	4651	5549	4232
Crown Competition Factor	141	136	147	156	195	153
Relative Density Index	38.5	36.0	39.1	42.6	52.1	40.7
Mean Diameter (in)	13.0	11.9	13.2	13.4	14.1	13.0
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	0	0

10 Years After Treatment (1991)

Live Trees per Acre	150	160	150	160	180	160
Live Basal Area (sq.ft/a)	146.7	130.4	149.6	161.7	201.8	154.2
Crown Competition Factor	147	140	153	160	200	160
Relative Density Index	40.1	37.3	40.7	43.8	53.3	42.3
Mean Diameter (in)	13.4	12.2	13.5	13.6	14.3	13.3
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	0	0

Plot Summary Report

Installation 226 CLEMAN MTN
 Region: Central Washington Ownership: Boise Cascade
 Legal Description: T16N R15E Section 16 Meridian: Willamette

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)	None	N+K	None	N+K	None	N+K

MENSURATIONAL CHARACTERISTICS:

At Time of Treatment (1981) Stand Age = 79

Live Trees per Acre	130	120	130	150	130	130
Live Basal Area (sq.ft/a)	101.8	87.8	71.3	81.5	95.1	91.1
Live Total Volume (cu.ft/a)	2571	2051	1595	1825	2247	1979
Crown Competition Factor	111	101	85	93	103	103
Relative Density Index	29.4	25.8	22.5	25.8	28.0	27.1
Mean Diameter (in)	12.0	11.6	10.0	10.0	11.6	11.3
Average Crown Ratio (%)	50.0	54.0	59.0	72.0	65.0	70.0
Site Height (feet)	73.3	66.2	61.1	67.7	69.5	61.8
Species Composition (% of BA)						
Douglas-fir	100.0	100.0	100.0	96.9	100.0	97.6
Ponderosa Pine	0.0	0.0	0.0	3.1	0.0	2.4

2 Years After Treatment (1983)

Live Trees per Acre	130	120	130	150	130	130
Live Basal Area (sq.ft/a)	108.1	97.6	80.9	91.4	103.7	97.7
Crown Competition Factor	117	108	93	104	110	108
Relative Density Index	30.8	27.9	24.8	28.1	29.8	28.5
Mean Diameter (in)	12.4	12.2	10.7	10.6	12.1	11.7
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0

4 Years After Treatment (1985)

Live Trees per Acre	130	120	130	150	130	130
Live Basal Area (sq.ft/a)	114.3	106.4	90.0	100.5	111.3	104.3
Live Total Volume (cu.ft/a)	3034	2628	2171	2420	2802	2406
Crown Competition Factor	122	115	100	111	116	112
Relative Density Index	32.1	29.8	26.8	30.2	31.4	30.0
Mean Diameter (in)	12.7	12.8	11.3	11.1	12.5	12.1
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	0	0

6 Years After Treatment (1987)

Live Trees per Acre	130	120	130	150	130	130
Live Basal Area (sq.ft/a)	119.1	113.0	96.3	108.5	116.7	110.1
Live Total Volume (cu.ft/a)	3225	2850	2371	2679	3002	2599
Crown Competition Factor	125	119	106	116	120	117
Relative Density Index	33.1	31.2	28.2	32.0	32.6	31.2
Mean Diameter (in)	13.0	13.1	11.7	11.5	12.8	12.5
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	0	0

8 Years After Treatment (1989)

Live Trees per Acre	130	120	130	150	130	130
Live Basal Area (sq.ft/a)	124.1	118.7	101.7	115.2	122.1	116.4
Live Total Volume (cu.ft/a)	3413	3040	2537	2899	3185	2805
Crown Competition Factor	129	123	111	122	125	121
Relative Density Index	34.1	32.4	29.4	33.5	33.7	32.5
Mean Diameter (in)	13.2	13.5	12.0	11.9	13.1	12.8
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	0	0

10 Years After Treatment (1991)

Live Trees per Acre	130	120	130	150	130	130
Live Basal Area (sq.ft/a)	126.9	123.2	106.1	121.7	125.4	121.6
Crown Competition Factor	132	126	114	127	128	125
Relative Density Index	34.7	33.3	30.3	34.9	34.4	33.6
Mean Diameter (in)	13.4	13.7	12.2	12.2	13.3	13.1
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	0	0

Plot Summary Report

Installation 227 JOHNSON CANYON
 Region: Central Washington Ownership: Boise Cascade
 Legal Description: T16N R15E Section 20 Meridian: Willamette

Plot Number	1	2	3	4	5	6
Initial Treatment (1981)	200#N	400#N	0#N	200#N	0#N	400#N
Second Treatment (1987)	None	200#N	N+K	N+K	None	N+K

MENSURATIONAL CHARACTERISTICS:

At Time of Treatment (1981) Stand Age = 80

Live Trees per Acre	120	110	120	160	110	120
Live Basal Area (sq.ft/a)	103.2	112.0	88.2	134.8	72.8	98.6
Live Total Volume (cu.ft/a)	2785	3084	2066	3761	1818	2508
Crown Competition Factor	112	115	98	143	85	109
Relative Density Index	29.1	30.3	25.9	38.2	21.9	28.1
Mean Diameter (in)	12.6	13.7	11.6	12.4	11.0	12.3
Average Crown Ratio (%)	57.0	61.0	55.0	54.0	45.0	52.0
Site Height (feet)	77.0	82.1	64.7	81.3	68.4	67.9
Species Composition (% of BA)						
Douglas-fir	100.0	100.0	93.4	94.9	100.0	100.0
Ponderosa Pine	0.0	0.0	6.6	5.1	0.0	0.0

2 Years After Treatment (1983)

Live Trees per Acre	120	110	120	160	110	120
Live Basal Area (sq.ft/a)	112.1	121.5	92.7	145.2	76.8	105.0
Crown Competition Factor	118	121	101	151	88	114
Relative Density Index	31.0	32.2	26.9	40.4	22.8	29.5
Mean Diameter (in)	13.1	14.2	11.9	12.9	11.3	12.7
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0

4 Years After Treatment (1985)

Live Trees per Acre	120	110	120	160	110	120
Live Basal Area (sq.ft/a)	120.3	130.4	97.9	154.7	82.2	111.8
Live Total Volume (cu.ft/a)	3463	3823	2448	4612	2162	3028
Crown Competition Factor	124	127	105	158	93	118
Relative Density Index	32.7	34.0	28.0	42.4	24.0	30.9
Mean Diameter (in)	13.6	14.7	12.2	13.3	11.7	13.1
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	0	0

6 Years After Treatment (1987)

Live Trees per Acre	120	110	120	160	110	120
Live Basal Area (sq.ft/a)	125.9	137.1	102.1	162.4	86.3	116.7
Live Total Volume (cu.ft/a)	3689	4100	2606	4947	2312	3218
Crown Competition Factor	128	132	108	163	96	122
Relative Density Index	33.8	35.3	28.9	44.0	24.9	31.9
Mean Diameter (in)	13.9	15.1	12.5	13.6	12.0	13.4
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	0	0

8 Years After Treatment (1989)

Live Trees per Acre	120	110	120	160	110	120
Live Basal Area (sq.ft/a)	130.4	142.2	107.0	169.2	89.6	121.3
Live Total Volume (cu.ft/a)	3855	4318	2784	5232	2437	3386
Crown Competition Factor	131	135	112	168	99	125
Relative Density Index	34.7	36.2	29.9	45.3	25.6	32.9
Mean Diameter (in)	14.1	15.4	12.8	13.9	12.2	13.6
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

10 Years After Treatment (1991)

Live Trees per Acre	120	110	120	160	110	120
Live Basal Area (sq.ft/a)	133.1	145.3	110.1	173.0	91.9	123.5
Crown Competition Factor	133	138	114	171	101	127
Relative Density Index	35.2	36.8	30.6	46.1	26.1	33.3
Mean Diameter (in)	14.3	15.6	13.0	14.1	12.4	13.7
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	0	0

Plot Summary Report

Installation 228 LOOKOUT MTN WEST
 Region: Central Washington Ownership: Washington DNR
 Legal Description: T20N R16E Section 36 Meridian: Willamette

Plot Number	1	2	3	4	5	6
Initial Treatment (1981)	400#N	200#N	0#N	200#N	0#N	400#N
Second Treatment (1987)	None	N+K	N+K	200#N	None	N+K

MENSURATIONAL CHARACTERISTICS:

At Time of Treatment (1981)	Stand Age = 64					
Live Trees per Acre	140	160	210	260	220	280
Live Basal Area (sq.ft/a)	124.1	136.2	164.6	128.9	131.2	157.6
Live Total Volume (cu.ft/a)	3488	4103	4638	3456	3573	4274
Crown Competition Factor	132	142	165	148	148	179
Relative Density Index	34.8	38.5	47.5	41.7	40.6	49.5
Mean Diameter (in)	12.8	12.5	12.0	9.5	10.5	10.2
Average Crown Ratio (%)	54.0	43.0	44.0	37.0	39.0	43.0
Site Height (feet)	76.1	88.9	80.3	76.7	71.8	83.0
Species Composition (% of BA)						
Douglas-fir	100.0	91.4	69.4	89.6	83.9	100.0
Ponderosa Pine	0.0	8.6	30.6	10.4	16.1	0.0

2 Years After Treatment (1983)						
Live Trees per Acre	140	160	210	250	220	280
Live Basal Area (sq.ft/a)	131.4	143.9	172.2	132.9	137.7	168.4
Crown Competition Factor	138	147	171	152	153	189
Relative Density Index	36.3	40.2	49.2	42.3	42.1	52.0
Mean Diameter (in)	13.1	12.8	12.3	9.9	10.7	10.5
Dead Trees per Acre	0	0	0	10	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	2.8	0.0	0.0

4 Years After Treatment (1985)						
Live Trees per Acre	140	150	210	250	220	280
Live Basal Area (sq.ft/a)	140.1	147.2	181.5	142.9	146.1	181.8
Live Total Volume (cu.ft/a)	4158	4717	5462	4073	4255	5265
Crown Competition Factor	144	149	177	164	160	200
Relative Density Index	38.1	40.2	51.2	44.7	44.0	55.0
Mean Diameter (in)	13.5	13.4	12.6	10.2	11.0	10.9
Dead Trees per Acre	0	10	0	10	0	0
Dead Basal Area (sq.ft/a)	0.0	3.9	0.0	2.8	0.0	0.0
Dead Total Volume (cu.ft/a)	0	75	0	64	0	0

6 Years After Treatment (1987)						
Live Trees per Acre	140	150	200	250	200	280
Live Basal Area (sq.ft/a)	145.7	151.1	181.0	148.9	138.8	190.5
Live Total Volume (cu.ft/a)	4399	4905	5520	4312	4159	5624
Crown Competition Factor	148	151	176	169	155	206
Relative Density Index	39.2	41.0	50.4	46.1	41.3	57.0
Mean Diameter (in)	13.8	13.6	12.9	10.5	11.3	11.2
Dead Trees per Acre	0	10	10	10	20	0
Dead Basal Area (sq.ft/a)	0.0	3.9	5.8	2.8	12.3	0.0
Dead Total Volume (cu.ft/a)	0	75	165	64	358	0

8 Years After Treatment (1989)						
Live Trees per Acre	140	140	130	230	200	280
Live Basal Area (sq.ft/a)	150.9	148.2	138.3	144.4	144.2	197.8
Live Total Volume (cu.ft/a)	4617	4922	4309	4279	4333	5915
Crown Competition Factor	152	148	140	166	159	213
Relative Density Index	40.3	39.7	37.0	44.1	42.5	58.6
Mean Diameter (in)	14.1	13.9	14.0	10.7	11.5	11.4
Dead Trees per Acre	0	20	80	30	20	0
Dead Basal Area (sq.ft/a)	0.0	12.0	54.7	13.9	12.3	0.0
Dead Total Volume (cu.ft/a)	0	310	1637	359	358	0

10 Years After Treatment (1991)						
Live Trees per Acre	140	140	130	230	200	280
Live Basal Area (sq.ft/a)	155.4	153.6	145.7	150.8	149.8	206.0
Crown Competition Factor	155	152	145	171	163	219
Relative Density Index	41.2	40.8	38.5	45.5	43.8	60.5
Mean Diameter (in)	14.3	14.2	14.3	11.0	11.7	11.6
Dead Trees per Acre	0	20	80	30	20	0
Dead Basal Area (sq.ft/a)	0.0	12.0	54.7	13.9	12.3	0.0
Dead Total Volume (cu.ft/a)	0	310	1637	359	358	0

Plot Summary Report

Installation 229 LOOKOUT MTN EAST
 Region: Central Washington Ownership: Boise Cascade
 Legal Description: T20N R17E Section 31 Meridian: Willamette

Plot Number	1	2	3	4	5	6
Initial Treatment (1981)	400#N	0#N	200#N	0#N	400#N	200#N
Second Treatment (1987)	None	None	N+K	N+K	200#N	200#N

MENSURATIONAL CHARACTERISTICS:

At Time of Treatment (1981) Stand Age = 69

Live Trees per Acre	130	100	110	120	120	100
Live Basal Area (sq.ft/a)	131.7	129.4	158.9	129.8	122.1	109.1
Live Total Volume (cu.ft/a)	3773	4209	5585	3958	3863	3376
Crown Competition Factor	133	123	147	130	125	109
Relative Density Index	35.7	33.0	39.4	34.6	33.0	29.0
Mean Diameter (in)	13.6	15.4	16.3	14.1	13.7	14.1
Average Crown Ratio (%)	47.0	50.0	40.0	51.0	50.0	54.0
Site Height (feet)	79.2	92.9	101.1	90.3	88.5	90.8
Species Composition (% of BA)						
Douglas-fir	96.3	100.0	100.0	100.0	100.0	100.0
Ponderosa Pine	3.7	0.0	0.0	0.0	0.0	0.0

2 Years After Treatment (1983)

Live Trees per Acre	130	100	110	120	120	100
Live Basal Area (sq.ft/a)	140.8	138.2	169.2	137.2	133.0	116.9
Crown Competition Factor	139	129	154	135	133	115
Relative Density Index	37.5	34.6	41.3	36.1	35.2	30.6
Mean Diameter (in)	14.1	15.9	16.8	14.5	14.3	14.6
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0

4 Years After Treatment (1985)

Live Trees per Acre	130	100	110	120	120	100
Live Basal Area (sq.ft/a)	152.0	146.9	180.3	146.0	145.5	125.8
Live Total Volume (cu.ft/a)	4542	4980	6585	4622	4874	4108
Crown Competition Factor	147	135	161	141	142	121
Relative Density Index	39.7	36.3	43.3	37.8	37.7	32.3
Mean Diameter (in)	14.6	16.4	17.3	14.9	14.9	15.2
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	0	0

6 Years After Treatment (1987)

Live Trees per Acre	130	100	110	120	120	100
Live Basal Area (sq.ft/a)	158.4	153.4	187.2	152.3	153.9	130.1
Live Total Volume (cu.ft/a)	4798	5282	6423	4920	5250	4328
Crown Competition Factor	151	139	165	146	147	124
Relative Density Index	41.0	37.5	44.5	39.0	39.3	33.1
Mean Diameter (in)	15.0	16.8	17.7	15.3	15.3	15.5
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	0	0

8 Years After Treatment (1989)

Live Trees per Acre	130	100	110	120	120	100
Live Basal Area (sq.ft/a)	167.2	160.0	193.8	159.5	161.4	136.3
Live Total Volume (cu.ft/a)	5128	5596	7259	5236	5594	4593
Crown Competition Factor	157	144	170	151	152	128
Relative Density Index	42.7	38.7	45.7	40.4	40.7	34.3
Mean Diameter (in)	15.4	17.1	18.0	15.6	15.7	15.8
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	0	0

10 Years After Treatment (1991)

Live Trees per Acre	130	100	110	120	120	100
Live Basal Area (sq.ft/a)	176.1	168.1	203.6	168.5	170.4	143.9
Crown Competition Factor	163	149	176	156	158	133
Relative Density Index	44.4	40.1	47.4	42.1	42.4	35.7
Mean Diameter (in)	15.8	17.6	18.4	16.0	16.1	16.3
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	0	0

Plot Summary Report

Installation 230 M.F. TEANAWAY RIVER
 Region: Central Washington Ownership: Boise Cascade
 Legal Description: T21N R15E Section 20 Meridian: Willamette

Plot Number	1	2	3	4	5	6
Initial Treatment (1981)	400#N	200#N	0#N	0#N	200#N	400#N
Second Treatment (1987)	200#N	200#N	None	N+K	None	N+K

MENSURATIONAL CHARACTERISTICS:

 At Time of Treatment (1981) Stand Age = 81

Live Trees per Acre	140	160	150	115	115	90
Live Basal Area (sq.ft/a)	125.4	116.7	118.9	141.1	128.7	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)	12.8	11.6	12.1	15.0	14.3	15.3
Average Crown Ratio (%)	53.0	50.0	49.0	42.0	48.0	50.0
Site Height (feet)	87.5	85.7	88.8	103.9	97.8	95.5
Species Composition (% of BA)						
Douglas-fir	80.1	89.7	93.2	83.0	76.7	93.2
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
Ponderosa Pine	14.4	4.5	6.8	17.0	22.4	0.0

2 Years After Treatment (1983)

Live Trees per Acre	140	160	150	115	115	90
Live Basal Area (sq.ft/a)	136.3	125.3	124.5	145.0	135.8	122.7
Crown Competition Factor	134	132	127	124	119	115
Relative Density Index	37.3	36.2	35.5	37.2	35.4	30.8
Mean Diameter (in)	13.4	12.0	12.3	15.2	14.7	15.8
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0

4 Years After Treatment (1985)

Live Trees per Acre	140	160	150	115	115	90
Live Basal Area (sq.ft/a)	152.6	137.2	132.9	151.3	145.8	134.3
Live Total Volume (cu.ft/a)	4990	4324	4107	5457	5208	4481
Crown Competition Factor	146	140	133	128	125	122
Relative Density Index	40.6	38.7	37.2	38.4	37.4	33.0
Mean Diameter (in)	14.1	12.5	12.7	15.5	15.3	16.5
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	0	0

6 Years After Treatment (1987)

Live Trees per Acre	140	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	5605	5614	4907
Crown Competition Factor	156	148	139	132	130	129
Relative Density Index	43.3	40.9	38.9	38.9	38.4	34.8
Mean Diameter (in)	14.8	13.0	13.1	16.1	16.0	17.1
Dead Trees per Acre	0	0	0	5	5	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.9	0.8	0.0
Dead Total Volume (cu.ft/a)	0	0	0	20	14	0

8 Years After Treatment (1989)

Live Trees per Acre	140	160	150	110	110	90
Live Basal Area (sq.ft/a)	179.7	159.8	149.8	165.4	162.6	154.0
Live Total Volume (cu.ft/a)	6185	5314	4857	6190	6061	5338
Crown Competition Factor	166	156	147	138	136	136
Relative Density Index	45.9	43.4	40.7	40.6	40.1	36.6
Mean Diameter (in)	15.3	13.5	13.5	16.6	16.5	17.7
Dead Trees per Acre	0	0	0	5	5	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.9	0.8	0.0
Dead Total Volume (cu.ft/a)	0	0	0	20	14	0

10 Years After Treatment (1991)

Live Trees per Acre	140	150	150	105	110	90
Live Basal Area (sq.ft/a)	194.4	164.9	160.5	162.4	173.8	166.0
Crown Competition Factor	176	160	155	135	143	144
Relative Density Index	48.7	43.8	42.9	39.6	42.1	38.7
Mean Diameter (in)	16.0	14.2	14.0	16.8	17.0	18.4
Dead Trees per Acre	0	10	0	10	5	0
Dead Basal Area (sq.ft/a)	0.0	7.6	0.0	13.2	0.8	0.0
Dead Total Volume (cu.ft/a)	0	241	0	462	14	0

Plot Summary Report

Installation 231 ELMO
 Region: Montana Ownership: Flathead (BIA)
 Legal Description: T24N R21W Section 30 Meridian: Principal

Plot Number	1	2	3	4	5	6
Initial Treatment (1981)	0#N	200#N	400#N	200#N	0#N	400#N
Second Treatment (1987)	None	None	None	None	None	None

MENSURATIONAL CHARACTERISTICS:

At Time of Treatment (1981) Stand Age = 61

Live Trees per Acre	190	180	200	130	160	150
Live Basal Area (sq.ft/a)	117.8	91.6	116.6	71.8	90.3	94.1
Live Total Volume (cu.ft/a)	2818	1970	2765	1649	2001	2280
Crown Competition Factor	130	108	132	83	102	107
Relative Density Index	36.1	29.5	36.3	22.6	28.3	28.7
Mean Diameter (in)	10.7	9.7	10.3	10.1	10.2	10.7
Average Crown Ratio (%)	44.0	45.0	43.0	48.0	49.0	55.0
Site Height (feet)	68.5	61.4	65.4	61.5	62.8	66.6
Species Composition (% of BA)						
Douglas-fir	89.5	100.0	94.0	94.9	92.3	99.3
Western Larch	0.0	0.0	0.0	0.0	0.0	0.7
Ponderosa Pine	10.5	0.0	6.0	5.2	7.7	0.0

2 Years After Treatment (1983)

Live Trees per Acre	190	180	200	130	160	150
Live Basal Area (sq.ft/a)	125.9	100.8	126.4	78.7	97.0	102.9
Crown Competition Factor	138	116	140	88	110	113
Relative Density Index	37.9	31.7	38.5	24.2	29.9	30.7
Mean Diameter (in)	11.0	10.1	10.8	10.5	10.5	11.2
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0

4 Years After Treatment (1985)

Live Trees per Acre	190	180	200	130	160	150
Live Basal Area (sq.ft/a)	130.6	105.4	131.0	82.9	101.4	108.2
Live Total Volume (cu.ft/a)	3247	2337	3232	1979	2336	2734
Crown Competition Factor	141	120	144	92	114	118
Relative Density Index	39.0	32.7	39.6	25.2	30.9	31.9
Mean Diameter (in)	11.2	10.4	11.0	10.8	10.8	11.5
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	0	0

6 Years After Treatment (1987)

Live Trees per Acre	190	180	200	130	160	150
Live Basal Area (sq.ft/a)	137.6	111.3	137.0	87.5	105.9	114.2
Live Total Volume (cu.ft/a)	3481	2510	3442	2130	2492	2947
Crown Competition Factor	148	125	150	95	118	123
Relative Density Index	40.5	34.1	40.9	26.3	31.9	33.2
Mean Diameter (in)	11.5	10.7	11.2	11.1	11.0	11.8
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	0	0

8 Years After Treatment (1989)

Live Trees per Acre	180	180	190	130	160	140
Live Basal Area (sq.ft/a)	134.0	115.9	131.9	91.5	109.3	117.9
Live Total Volume (cu.ft/a)	3450	2656	3362	2262	2628	3104
Crown Competition Factor	142	130	143	98	121	125
Relative Density Index	39.2	35.2	39.3	27.1	32.7	33.4
Mean Diameter (in)	11.7	10.9	11.3	11.4	11.2	12.4
Dead Trees per Acre	10	0	10	0	0	10
Dead Basal Area (sq.ft/a)	8.2	0.0	9.2	0.0	0.0	0.8
Dead Total Volume (cu.ft/a)	197	0	238	0	0	11

10 Years After Treatment (1991)

Live Trees per Acre	180	180	190	130	160	140
Live Basal Area (sq.ft/a)	141.0	122.4	137.1	96.4	113.8	123.5
Crown Competition Factor	148	135	147	103	125	130
Relative Density Index	40.7	36.6	40.4	28.2	33.7	34.6
Mean Diameter (in)	12.0	11.2	11.5	11.7	11.4	12.7
Dead Trees per Acre	10	0	10	0	0	10
Dead Basal Area (sq.ft/a)	8.2	0.0	9.2	0.0	0.0	0.8
Dead Total Volume (cu.ft/a)	197	0	238	0	0	11

Plot Summary Report

Installation 232 SUNNY SLOPE
 Region: Montana Ownership: Flathead (BIA)
 Legal Description: T23N R21W Section 12 Meridian: Principal

Plot Number	1	2	3	4	5	6
Initial Treatment (1981)	0#N	400#N	200#N	400#N	200#N	0#N
Second Treatment (1987)	N+K	200#N	200#N	None	None	None

MENSURATIONAL CHARACTERISTICS:

 At Time of Treatment (1981) Stand Age = 54

Live Trees per Acre	180	180	230	180	200	210
Live Basal Area (sq.ft/a)	113.5	148.6	152.0	136.1	135.1	140.9
Live Total Volume (cu.ft/a)	2779	4257	4094	3649	3541	3746
Crown Competition Factor	123	156	163	137	151	153
Relative Density Index	34.6	42.4	45.8	39.7	40.5	42.3
Mean Diameter (in)	10.8	12.3	11.0	11.8	11.1	11.1
Average Crown Ratio (%)	46.0	55.0	51.0	47.0	49.0	46.0
Site Height (feet)	68.4	81.6	74.2	80.0	73.0	76.1
Species Composition (% of BA)						
Douglas-fir	89.5	86.3	83.3	71.5	95.9	88.3
Western Larch	0.0	13.7	0.0	16.6	0.0	11.7
Ponderosa Pine	10.5	0.0	16.7	11.9	4.2	0.0

2 Years After Treatment (1983)

Live Trees per Acre	180	180	230	180	200	210
Live Basal Area (sq.ft/a)	122.0	164.2	166.6	148.9	147.8	152.4
Crown Competition Factor	133	168	177	148	163	165
Relative Density Index	36.5	45.7	49.1	42.4	43.3	44.9
Mean Diameter (in)	11.2	12.9	11.5	12.3	11.6	11.5
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0

4 Years After Treatment (1985)

Live Trees per Acre	180	180	230	170	200	210
Live Basal Area (sq.ft/a)	126.6	172.1	174.0	150.0	155.2	158.6
Live Total Volume (cu.ft/a)	3261	5187	4979	4256	4309	4397
Crown Competition Factor	136	174	183	150	169	169
Relative Density Index	37.6	47.3	50.7	42.1	44.9	46.2
Mean Diameter (in)	11.4	13.2	11.8	12.7	11.9	11.8
Dead Trees per Acre	0	0	0	10	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	4.6	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	132	0	0

6 Years After Treatment (1987)

Live Trees per Acre	180	180	230	170	200	210
Live Basal Area (sq.ft/a)	133.5	182.2	182.7	157.8	163.4	167.5
Live Total Volume (cu.ft/a)	3520	5614	5359	4598	4646	4751
Crown Competition Factor	142	182	190	157	176	176
Relative Density Index	39.1	49.4	52.6	43.7	46.7	48.2
Mean Diameter (in)	11.7	13.6	12.1	13.1	12.2	12.1
Dead Trees per Acre	0	0	0	10	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	4.6	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	132	0	0

8 Years After Treatment (1989)

Live Trees per Acre	180	180	230	170	200	210
Live Basal Area (sq.ft/a)	140.5	191.8	192.1	165.0	170.9	174.8
Live Total Volume (cu.ft/a)	3792	6041	5773	4894	4977	5065
Crown Competition Factor	148	189	197	162	182	183
Relative Density Index	40.6	51.3	54.6	45.2	48.3	49.7
Mean Diameter (in)	12.0	14.0	12.4	13.3	12.5	12.4
Dead Trees per Acre	0	0	0	10	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	4.6	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	132	0	0

10 Years After Treatment (1991)

Live Trees per Acre	180	180	230	170	200	210
Live Basal Area (sq.ft/a)	145.8	199.7	198.5	170.6	176.8	181.1
Crown Competition Factor	152	194	202	166	187	188
Relative Density Index	41.8	52.9	56.0	46.3	49.6	51.1
Mean Diameter (in)	12.2	14.3	12.6	13.6	12.7	12.6
Dead Trees per Acre	0	0	0	10	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	4.6	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	132	0	0

Plot Summary Report

Installation 233 HELLROARING CREEK
 Region: Montana Ownership: Flathead (BIA)
 Legal Description: T23N R19W Section 33 Meridian: Principal

Plot Number	1	2	3	4	5	6
Initial Treatment (1981)	400#N	200#N	0#N	0#N	200#N	400#N
Second Treatment (1987)	N+K	N+K	N+K	None	None	None

MENSURATIONAL CHARACTERISTICS:

At Time of Treatment (1981)	Stand Age = 54					
Live Trees per Acre	160	180	230	150	160	160
Live Basal Area (sq.ft/a)	136.7	125.4	176.5	136.7	149.9	140.6
Live Total Volume (cu.ft/a)	3724	3197	4931	3829	4429	3584
Crown Competition Factor	148	135	189	145	157	148
Relative Density Index	38.6	37.3	51.2	38.0	41.4	39.5
Mean Diameter (in)	12.5	11.3	11.9	12.9	13.1	12.7
Average Crown Ratio (%)	46.0	52.0	42.0	50.0	44.0	56.0
Site Height (feet)	77.1	72.1	80.3	79.3	83.1	70.6
Species Composition (% of BA)						
Douglas-fir	100.0	82.6	85.7	100.0	100.0	91.0
Western Larch	0.0	0.0	14.3	0.0	0.0	0.0
Ponderosa Pine	0.0	17.4	0.0	0.0	0.0	9.0

2 Years After Treatment (1983)						
Live Trees per Acre	160	180	230	150	160	160
Live Basal Area (sq.ft/a)	147.2	136.3	188.7	143.8	160.3	152.4
Crown Competition Factor	156	146	199	150	164	157
Relative Density Index	40.9	39.7	53.9	39.5	43.6	41.9
Mean Diameter (in)	13.0	11.8	12.3	13.3	13.6	13.2
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0

4 Years After Treatment (1985)						
Live Trees per Acre	160	180	230	150	160	160
Live Basal Area (sq.ft/a)	154.2	143.4	196.1	148.8	166.7	159.8
Live Total Volume (cu.ft/a)	4409	3864	5743	4312	5156	4313
Crown Competition Factor	161	152	205	154	169	162
Relative Density Index	42.3	41.3	55.5	40.5	44.8	43.4
Mean Diameter (in)	13.3	12.1	12.5	13.5	13.8	13.5
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	0	0

6 Years After Treatment (1987)						
Live Trees per Acre	160	180	230	150	160	160
Live Basal Area (sq.ft/a)	162.5	151.3	205.6	155.4	173.8	168.2
Live Total Volume (cu.ft/a)	4740	4184	6155	4570	5500	4642
Crown Competition Factor	167	157	212	158	174	168
Relative Density Index	44.0	42.9	57.5	41.9	46.3	45.1
Mean Diameter (in)	13.6	12.4	12.8	13.8	14.1	13.9
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	0	0

8 Years After Treatment (1989)						
Live Trees per Acre	160	180	230	150	160	160
Live Basal Area (sq.ft/a)	169.8	158.8	214.4	160.5	179.5	174.5
Live Total Volume (cu.ft/a)	5045	4511	6588	4809	5793	4898
Crown Competition Factor	172	163	218	162	178	172
Relative Density Index	45.5	44.5	59.3	42.9	47.4	46.4
Mean Diameter (in)	14.0	12.7	13.1	14.0	14.3	14.1
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	0	0

10 Years After Treatment (1991)						
Live Trees per Acre	160	180	230	150	160	160
Live Basal Area (sq.ft/a)	176.6	165.8	222.0	165.3	183.7	179.6
Crown Competition Factor	177	168	224	165	181	176
Relative Density Index	46.8	46.0	60.9	43.8	48.2	47.4
Mean Diameter (in)	14.2	13.0	13.3	14.2	14.5	14.4
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	0	0

Plot Summary Report

Installation 234 RONAN
 Region: Montana Ownership: Flathead (BIA)
 Legal Description: T20N R19W Section 5 Meridian: Principal

Plot Number	1	2	3	4	5	6
Initial Treatment (1981)	0#N	200#N	400#N	400#N	0#N	200#N
Second Treatment (1987)	None	None	None	None	None	None

MENSURATIONAL CHARACTERISTICS:

At Time of Treatment (1981) Stand Age = 59

Live Trees per Acre	210	200	160	160	160	170
Live Basal Area (sq.ft/a)	140.0	137.2	99.7	120.4	150.4	141.3
Live Total Volume (cu.ft/a)	3655	3661	2529	3165	4181	3754
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	12.4
Average Crown Ratio (%)	51.0	53.0	47.0	55.0	57.0	55.0
Site Height (feet)	73.4	74.4	70.2	71.7	79.4	73.4
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
Ponderosa Pine	32.4	14.8	12.7	11.5	12.0	20.2

2 Years After Treatment (1983)

Live Trees per Acre	210	200	160	160	160	170
Live Basal Area (sq.ft/a)	150.3	147.4	107.4	129.8	160.8	152.2
Crown Competition Factor	155	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
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0

4 Years After Treatment (1985)

Live Trees per Acre	210	200	160	160	160	170
Live Basal Area (sq.ft/a)	157.6	152.8	111.7	135.5	167.9	158.6
Live Total Volume (cu.ft/a)	4424	4368	3027	3801	4992	4556
Crown Competition Factor	162	157	117	141	166	156
Relative Density Index	46.0	44.4	33.2	38.4	45.1	43.9
Mean Diameter (in)	11.7	11.8	11.3	12.5	13.9	13.1
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	0	0

6 Years After Treatment (1987)

Live Trees per Acre	210	200	150	160	160	170
Live Basal Area (sq.ft/a)	166.1	160.4	111.2	142.2	175.4	167.0
Live Total Volume (cu.ft/a)	4788	4699	3103	4083	5335	4935
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
Dead Trees per Acre	0	0	10	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	5.7	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	146	0	0	0

8 Years After Treatment (1989)

Live Trees per Acre	210	200	0	0	0	0
Live Basal Area (sq.ft/a)	171.6	165.0	.	.	.	.
Live Total Volume (cu.ft/a)	5060	4949	.	.	.	.
Crown Competition Factor	172	166	.	.	.	.
Relative Density Index	49.0	47.1	.	.	.	.
Mean Diameter (in)	12.2	12.3	.	.	.	.
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	0	0

10 Years After Treatment (1991)

Live Trees per Acre	210	200	0	0	0	0
Live Basal Area (sq.ft/a)	178.3	170.3	.	.	.	.
Crown Competition Factor	177	170	.	.	.	.
Relative Density Index	50.5	48.2	.	.	.	.
Mean Diameter (in)	12.5	12.5	.	.	.	.
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

Plot Summary Report

Installation 235 FISH CREEK
 Region: Montana Ownership: Champion
 Legal Description: T14N R24W Section 5 Meridian: Principal

Plot Number	1	2	3	4	5	6
Initial Treatment (1981)	0#N	200#N	400#N	0#N	200#N	400#N
Second Treatment (1987)	None	200#N	None	N+K	None	200#N

MENSURATIONAL CHARACTERISTICS:

 At Time of Treatment (1981) Stand Age = 74

Live Trees per Acre	220	270	280	390	390	410
Live Basal Area (sq.ft/a)	86.7	114.1	106.8	112.2	115.7	126.3
Live Total Volume (cu.ft/a)	2026	2662	2314	2504	2591	2828
Crown Competition Factor	107	123	127	131	140	158
Relative Density Index	29.8	38.5	36.9	41.6	42.6	46.1
Mean Diameter (in)	8.5	8.8	8.4	7.3	7.4	7.5
Average Crown Ratio (%)	40.0	43.0	44.0	35.0	33.0	32.0
Site Height (feet)	65.2	67.1	61.9	63.8	59.6	60.1
Species Composition (% of BA)						
Douglas-fir	97.7	62.8	86.5	68.6	83.3	87.9
Western Larch	0.0	0.0	0.0	1.7	0.0	0.0
Lodgepole Pine	0.0	0.0	0.0	0.0	0.0	4.9
Ponderosa Pine	2.3	37.2	13.5	29.8	16.7	7.2

2 Years After Treatment (1983)

Live Trees per Acre	220	270	280	390	390	410
Live Basal Area (sq.ft/a)	90.0	119.8	112.4	116.3	122.1	132.2
Crown Competition Factor	110	129	132	135	146	164
Relative Density Index	30.6	39.9	38.4	42.8	44.4	47.7
Mean Diameter (in)	8.7	9.0	8.6	7.4	7.6	7.7
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0

4 Years After Treatment (1985)

Live Trees per Acre	220	260	280	360	370	360
Live Basal Area (sq.ft/a)	93.4	121.9	119.1	116.8	125.3	128.8
Live Total Volume (cu.ft/a)	2236	2998	2703	2714	2951	3012
Crown Competition Factor	113	131	138	134	148	155
Relative Density Index	31.5	40.0	40.1	42.1	44.6	45.3
Mean Diameter (in)	8.8	9.3	8.8	7.7	7.9	8.1
Dead Trees per Acre	0	10	0	30	20	50
Dead Basal Area (sq.ft/a)	0.0	3.7	0.0	4.0	3.1	9.8
Dead Total Volume (cu.ft/a)	0	80	0	82	58	203

6 Years After Treatment (1987)

Live Trees per Acre	220	260	280	360	360	350
Live Basal Area (sq.ft/a)	96.9	127.1	124.8	121.8	129.8	132.8
Live Total Volume (cu.ft/a)	2350	3194	2875	2895	3130	3177
Crown Competition Factor	116	136	144	138	153	159
Relative Density Index	32.3	41.3	41.5	43.4	45.5	46.0
Mean Diameter (in)	9.0	9.5	9.0	7.9	8.1	8.3
Dead Trees per Acre	0	10	0	30	30	60
Dead Basal Area (sq.ft/a)	0.0	3.7	0.0	4.0	3.9	11.6
Dead Total Volume (cu.ft/a)	0	80	0	82	69	238

8 Years After Treatment (1989)

Live Trees per Acre	210	260	250	360	360	340
Live Basal Area (sq.ft/a)	100.2	133.1	123.6	128.4	135.6	135.3
Live Total Volume (cu.ft/a)	2473	3412	2912	3112	3322	3290
Crown Competition Factor	119	141	140	145	158	163
Relative Density Index	32.8	42.8	40.1	45.1	47.0	46.3
Mean Diameter (in)	9.4	9.7	9.5	8.1	8.3	8.5
Dead Trees per Acre	10	10	30	30	30	70
Dead Basal Area (sq.ft/a)	1.1	3.7	7.8	4.0	3.9	16.2
Dead Total Volume (cu.ft/a)	19	80	168	82	69	348

10 Years After Treatment (1991)

Live Trees per Acre	210	250	240	350	360	340
Live Basal Area (sq.ft/a)	103.3	132.5	123.1	130.3	138.4	139.0
Crown Competition Factor	123	140	139	148	161	167
Relative Density Index	33.5	42.2	39.5	45.3	47.8	47.3
Mean Diameter (in)	9.5	9.9	9.7	8.3	8.4	8.7
Dead Trees per Acre	10	20	40	40	30	70
Dead Basal Area (sq.ft/a)	1.1	8.2	12.8	6.2	3.9	16.2
Dead Total Volume (cu.ft/a)	18	186	282	125	69	348

Plot Summary Report

Installation 236 DEER CREEK
 Region: Montana Ownership: Champion
 Legal Description: T13N R18W Section 20 Meridian: Principal

Plot Number	1	2	3	4	5	6
Initial Treatment (1981)	400#N	200#N	0#N	400#N	0#N	200#N
Second Treatment (1987)	N+K	N+K	N+K	None	None	None

MENSURATIONAL CHARACTERISTICS:

At Time of Treatment (1981)	Stand Age = 80					
Live Trees per Acre	240	270	240	380	310	350
Live Basal Area (sq.ft/a)	134.9	172.2	173.2	189.4	146.4	190.3
Live Total Volume (cu.ft/a)	3367	4555	4555	4797	3704	4795
Crown Competition Factor	153	194	180	218	178	216
Relative Density Index	42.3	52.4	51.1	61.3	48.0	60.2
Mean Diameter (in)	10.2	10.8	11.5	9.6	9.3	10.0
Average Crown Ratio (%)	34.0	28.0	36.0	26.0	28.0	29.0
Site Height (feet)	75.4	77.1	76.2	76.8	72.7	75.0
Species Composition (% of BA)						
Douglas-fir	96.6	96.9	85.5	97.9	100.0	94.1
Ponderosa Pine	3.4	3.1	14.5	2.1	0.0	5.9

2 Years After Treatment (1983)						
Live Trees per Acre	240	270	240	380	310	350
Live Basal Area (sq.ft/a)	139.9	177.5	178.3	195.0	151.8	196.2
Crown Competition Factor	158	198	183	223	183	222
Relative Density Index	43.5	53.6	52.2	62.6	49.3	61.6
Mean Diameter (in)	10.3	11.0	11.7	9.7	9.5	10.1
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0

4 Years After Treatment (1985)						
Live Trees per Acre	240	270	240	380	310	350
Live Basal Area (sq.ft/a)	144.1	181.7	182.2	199.0	155.3	200.4
Live Total Volume (cu.ft/a)	3742	4949	4944	5206	4046	5228
Crown Competition Factor	161	201	186	227	187	226
Relative Density Index	44.5	54.5	53.1	63.6	50.2	62.6
Mean Diameter (in)	10.5	11.1	11.8	9.8	9.6	10.3
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	0	0

6 Years After Treatment (1987)						
Live Trees per Acre	240	270	240	350	310	350
Live Basal Area (sq.ft/a)	148.5	185.2	186.3	197.1	159.1	203.9
Live Total Volume (cu.ft/a)	3929	5118	5132	5255	4195	5400
Crown Competition Factor	164	204	189	222	190	228
Relative Density Index	45.5	55.3	53.9	61.8	51.1	63.4
Mean Diameter (in)	10.7	11.2	11.9	10.2	9.7	10.3
Dead Trees per Acre	0	0	0	30	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	6.0	0.0	0.0
Dead Total Volume (cu.ft/a)	1	2	0	123	0	1

8 Years After Treatment (1989)						
Live Trees per Acre	240	240	230	300	300	340
Live Basal Area (sq.ft/a)	153.4	179.8	190.1	188.8	161.9	206.0
Live Total Volume (cu.ft/a)	4117	5063	5335	5105	4323	5537
Crown Competition Factor	169	195	192	208	191	228
Relative Density Index	46.6	52.5	54.2	57.6	51.3	63.5
Mean Diameter (in)	10.8	11.7	12.3	10.7	10.0	10.5
Dead Trees per Acre	0	30	10	80	10	10
Dead Basal Area (sq.ft/a)	0.0	9.0	0.9	18.5	1.5	2.3
Dead Total Volume (cu.ft/a)	1	221	17	430	26	46

10 Years After Treatment (1991)						
Live Trees per Acre	230	240	230	290	300	330
Live Basal Area (sq.ft/a)	154.6	182.4	192.7	188.7	163.9	206.6
Crown Competition Factor	169	197	194	206	193	228
Relative Density Index	46.4	53.1	54.7	57.1	51.8	63.1
Mean Diameter (in)	11.1	11.8	12.4	10.9	10.0	10.7
Dead Trees per Acre	10	30	10	90	10	20
Dead Basal Area (sq.ft/a)	1.7	9.0	0.9	21.0	1.5	4.1
Dead Total Volume (cu.ft/a)	39	221	17	488	26	91

Plot Summary Report

Installation 237 MOLLET 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	None	None	N+K	N+K	200#N

MENSURATIONAL CHARACTERISTICS:

At Time of Treatment (1981) Stand Age = 90

Live Trees per Acre	230	180	250	220	240	270
Live Basal Area (sq.ft/a)	169.0	142.4	174.1	156.1	123.3	125.8
Live Total Volume (cu.ft/a)	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
Average Crown Ratio (%)	40.0	36.0	27.0	41.0	36.0	43.0
Site Height (feet)	85.4	80.9	80.7	83.6	72.7	67.5
Species Composition (% of BA)						
Douglas-fir	86.1	98.0	100.0	100.0	100.0	100.0
Ponderosa Pine	13.9	2.1	0.0	0.0	0.0	0.0

2 Years After Treatment (1983)

Live Trees per Acre	220	180	250	220	240	270
Live Basal Area (sq.ft/a)	170.6	149.1	182.5	163.4	129.0	133.5
Crown Competition Factor	172	150	199	173	146	157
Relative Density Index	49.4	42.5	53.7	47.8	41.0	43.3
Mean Diameter (in)	11.9	12.3	11.6	11.7	9.9	9.5
Dead Trees per Acre	10	0	0	0	0	0
Dead Basal Area (sq.ft/a)	5.5	0.0	0.0	0.0	0.0	0.0

4 Years After Treatment (1985)

Live Trees per Acre	220	180	250	220	240	270
Live Basal Area (sq.ft/a)	174.1	153.1	188.3	168.8	133.7	139.1
Live Total Volume (cu.ft/a)	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	42.1	44.6
Mean Diameter (in)	12.1	12.5	11.8	11.9	10.1	9.7
Dead Trees per Acre	10	0	0	0	0	0
Dead Basal Area (sq.ft/a)	5.5	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	182	0	0	0	0	0

6 Years After Treatment (1987)

Live Trees per Acre	220	180	250	220	240	260
Live Basal Area (sq.ft/a)	178.9	158.1	195.3	175.9	138.8	138.7
Live Total Volume (cu.ft/a)	5465	4644	5833	5058	3539	3321
Crown Competition Factor	178	157	209	183	155	160
Relative Density Index	51.2	44.4	56.5	50.6	43.3	44.1
Mean Diameter (in)	12.2	12.7	12.0	12.1	10.3	9.9
Dead Trees per Acre	10	0	0	0	0	10
Dead Basal Area (sq.ft/a)	5.5	0.0	0.0	0.0	0.0	6.6
Dead Total Volume (cu.ft/a)	182	0	0	0	0	131

8 Years After Treatment (1989)

Live Trees per Acre	220	180	250	220	220	260
Live Basal Area (sq.ft/a)	183.0	162.8	201.0	181.9	140.1	143.2
Live Total Volume (cu.ft/a)	5647	4834	6059	5289	3610	3477
Crown Competition Factor	180	160	213	188	153	164
Relative Density Index	52.1	45.4	57.7	51.9	42.6	45.2
Mean Diameter (in)	12.4	12.9	12.1	12.3	10.8	10.1
Dead Trees per Acre	10	0	0	0	20	10
Dead Basal Area (sq.ft/a)	5.5	0.0	0.0	0.0	3.3	6.6
Dead Total Volume (cu.ft/a)	182	0	0	0	79	131

10 Years After Treatment (1991)

Live Trees per Acre	220	170	250	220	210	260
Live Basal Area (sq.ft/a)	185.9	164.6	205.5	187.7	141.6	148.4
Crown Competition Factor	182	160	216	193	153	169
Relative Density Index	52.7	45.1	58.7	53.1	42.5	46.4
Mean Diameter (in)	12.5	13.3	12.3	12.5	11.1	10.2
Dead Trees per Acre	10	10	0	0	30	10
Dead Basal Area (sq.ft/a)	5.5	2.0	0.0	0.0	5.1	6.6
Dead Total Volume (cu.ft/a)	182	54	0	0	105	131

Plot Summary Report

Installation 238 BULLALO BILL CREEK
 Region: Montana Ownership: Champion
 Legal Description: T22N R26W Section 34 Meridian: Principal

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)	None	N+K	N+K	None	200#N	N+K

MENSURATIONAL CHARACTERISTICS:

 At Time of Treatment (1981) Stand Age = 32

Live Trees per Acre	260	230	160	210	180	240
Live Basal Area (sq.ft/a)	56.0	55.4	44.5	39.3	31.6	60.8
Live Total Volume (cu.ft/a)	940	860	760	579	403	885
Crown Competition Factor	70	70	57	52	45	78
Relative Density Index	22.3	21.5	16.6	16.2	13.3	23.3
Mean Diameter (in)	6.3	6.6	7.1	5.9	5.7	6.8
Average Crown Ratio (%)	67.0	74.0	78.0	72.0	79.0	77.0
Site Height (feet)	43.7	46.1	44.9	38.9	32.5	40.4
Species Composition (% of BA)						
Douglas-fir	68.5	78.5	94.8	82.2	93.6	86.0
Western Larch	8.5	19.3	5.2	3.4	3.8	11.6
Lodgepole Pine	23.0	2.2	0.0	11.0	2.7	2.4
Ponderosa Pine	0.0	0.0	0.0	3.4	0.0	0.0

2 Years After Treatment (1983)

Live Trees per Acre	260	230	160	210	180	240
Live Basal Area (sq.ft/a)	63.2	66.7	53.1	47.6	39.0	69.4
Crown Competition Factor	78	82	67	61	53	87
Relative Density Index	24.5	24.7	19.0	18.8	15.5	25.7
Mean Diameter (in)	6.7	7.3	7.8	6.5	6.3	7.3
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0

4 Years After Treatment (1985)

Live Trees per Acre	260	230	160	210	180	240
Live Basal Area (sq.ft/a)	68.4	74.4	60.1	53.8	43.9	75.1
Live Total Volume (cu.ft/a)	1234	1266	1114	862	603	1171
Crown Competition Factor	83	91	74	67	58	94
Relative Density Index	26.0	26.8	20.9	20.6	17.0	27.3
Mean Diameter (in)	7.0	7.7	8.3	6.9	6.7	7.6
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	0	0

6 Years After Treatment (1987)

Live Trees per Acre	260	230	160	210	180	240
Live Basal Area (sq.ft/a)	75.2	82.8	67.4	60.7	49.1	82.5
Live Total Volume (cu.ft/a)	1407	1471	1297	1017	705	1341
Crown Competition Factor	91	99	81	74	64	101
Relative Density Index	27.8	29.0	22.7	22.5	18.5	29.3
Mean Diameter (in)	7.3	8.1	8.8	7.3	7.1	7.9
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	0	0

8 Years After Treatment (1989)

Live Trees per Acre	260	230	160	210	180	240
Live Basal Area (sq.ft/a)	82.5	91.9	75.1	67.5	55.4	92.1
Live Total Volume (cu.ft/a)	1610	1699	1510	1181	830	1573
Crown Competition Factor	97	108	88	81	70	111
Relative Density Index	29.9	31.4	24.6	24.4	20.2	31.8
Mean Diameter (in)	7.6	8.6	9.3	7.7	7.5	8.4
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

10 Years After Treatment (1991)

Live Trees per Acre	260	230	160	210	180	240
Live Basal Area (sq.ft/a)	88.2	99.7	81.4	74.7	61.5	100.5
Crown Competition Factor	103	117	95	90	76	119
Relative Density Index	31.4	33.4	26.2	26.3	21.9	34.0
Mean Diameter (in)	7.9	8.9	9.7	8.1	7.9	8.8
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	0	0

Plot Summary Report

Installation 239 WAHA #2
 Region: Northeast Oregon Ownership: Potlatch
 Legal Description: T33N R4W Section 10 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	None	None	N+K	200#N	N+K

MENSURATIONAL CHARACTERISTICS:

At Time of Treatment (1981) Stand Age = 87

Live Trees per Acre	120	127	170	140	190	190
Live Basal Area (sq.ft/a)	139.3	151.4	228.0	208.4	219.8	183.9
Live Total Volume (cu.ft/a)	4645	4484	8098	7270	7097	5652
Crown Competition Factor	123	135	200	179	201	175
Relative Density Index	36.5	39.4	57.6	51.3	57.6	50.4
Mean Diameter (in)	14.6	14.8	15.7	16.5	14.6	13.3
Average Crown Ratio (%)	51.0	48.0	35.0	39.0	30.0	36.0
Site Height (feet)	98.2	88.9	97.5	102.9	96.7	84.9
Species Composition (% of BA)						
Douglas-fir	93.8	98.8	74.6	87.1	88.2	88.2
Ponderosa Pine	6.2	1.2	25.5	12.9	11.8	11.8

2 Years After Treatment (1983)

Live Trees per Acre	120	120	170	140	190	170
Live Basal Area (sq.ft/a)	149.1	156.2	238.0	216.9	226.3	187.0
Crown Competition Factor	130	137	206	185	205	173
Relative Density Index	38.4	39.7	59.5	52.8	58.9	49.6
Mean Diameter (in)	15.1	15.5	16.0	16.8	14.8	14.2
Dead Trees per Acre	0	7	0	0	0	20
Dead Basal Area (sq.ft/a)	0.0	1.8	0.0	0.0	0.0	6.3

4 Years After Treatment (1985)

Live Trees per Acre	120	120	150	140	180	170
Live Basal Area (sq.ft/a)	158.0	163.4	220.3	225.1	230.4	195.8
Live Total Volume (cu.ft/a)	5509	5051	7969	8161	7683	6198
Crown Competition Factor	136	143	192	190	207	179
Relative Density Index	40.1	41.1	54.4	54.3	58.9	51.4
Mean Diameter (in)	15.5	15.8	16.4	17.2	15.3	14.5
Dead Trees per Acre	0	7	20	0	10	20
Dead Basal Area (sq.ft/a)	0.0	1.8	25.7	0.0	3.3	6.3
Dead Total Volume (cu.ft/a)	0	40	1036	0	99	203

6 Years After Treatment (1987)

Live Trees per Acre	120	120	130	140	180	170
Live Basal Area (sq.ft/a)	164.9	167.9	195.0	230.1	234.1	202.8
Live Total Volume (cu.ft/a)	5855	5255	6873	8440	7927	6508
Crown Competition Factor	141	146	173	193	210	184
Relative Density Index	41.4	42.0	47.9	55.2	59.6	52.7
Mean Diameter (in)	15.9	16.0	16.6	17.4	15.4	14.8
Dead Trees per Acre	0	7	40	0	10	20
Dead Basal Area (sq.ft/a)	0.0	1.8	56.1	0.0	3.3	6.3
Dead Total Volume (cu.ft/a)	1	40	2401	0	99	203

8 Years After Treatment (1989)

Live Trees per Acre	113	113	130	140	160	170
Live Basal Area (sq.ft/a)	168.3	171.5	201.5	234.8	228.3	208.8
Live Total Volume (cu.ft/a)	6120	5512	7251	8812	7900	6833
Crown Competition Factor	142	147	177	196	204	188
Relative Density Index	41.4	42.0	49.1	56.1	56.8	53.9
Mean Diameter (in)	16.5	16.7	16.9	17.5	16.2	15.0
Dead Trees per Acre	7	13	40	0	30	20
Dead Basal Area (sq.ft/a)	2.2	3.4	56.1	0.0	13.8	6.3
Dead Total Volume (cu.ft/a)	51	72	2401	0	406	203

10 Years After Treatment (1991)

Live Trees per Acre	113	120	130	140	150	170
Live Basal Area (sq.ft/a)	173.7	177.6	205.2	240.1	228.0	215.2
Crown Competition Factor	146	152	180	200	200	192
Relative Density Index	42.4	43.8	49.8	57.0	55.8	55.1
Mean Diameter (in)	16.8	16.5	17.0	17.7	16.7	15.2
Dead Trees per Acre	7	7	40	0	40	20
Dead Basal Area (sq.ft/a)	2.2	1.8	56.1	0.0	19.5	6.3
Dead Total Volume (cu.ft/a)	51	40	2401	0	574	203

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	None	None	N+K	None

MENSURATIONAL CHARACTERISTICS:

At Time of Treatment (1981) Stand Age = 41

	1	2	3	4	5	6
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	180	214
Relative Density Index	43.6	59.9	36.6	47.7	52.1	59.5
Mean Diameter (in)	7.9	9.0	7.2	9.9	9.8	9.7
Average Crown Ratio (%)	54.0	45.0	59.0	49.0	49.0	46.0
Site Height (feet)	69.4	70.0	55.9	74.5	73.3	78.3
Species Composition (% of BA)						
Douglas-fir	65.1	92.2	91.9	83.8	61.5	79.6
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

2 Years After Treatment (1983)

	1	2	3	4	5	6
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	63.6
Mean Diameter (in)	8.4	9.3	7.8	10.3	10.3	10.2
Dead Trees per Acre	0	0	10	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	3.5	0.0	0.0	0.0

4 Years After Treatment (1985)

	1	2	3	4	5	6
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
Dead Trees per Acre	10	0	10	0	0	0
Dead Basal Area (sq.ft/a)	2.7	0.0	3.5	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	53	0	75	0	0	0

6 Years After Treatment (1987)

	1	2	3	4	5	6
Live Trees per Acre	350	410	340	280	310	360
Live Basal Area (sq.ft/a)	164.3	222.7	144.3	188.6	207.0	234.9
Live Total Volume (cu.ft/a)	4098	6057	3360	5444	6224	7176
Crown Competition Factor	182	254	178	204	218	260
Relative Density Index	53.9	70.5	48.6	56.6	62.2	71.0
Mean Diameter (in)	9.3	10.0	8.8	11.1	11.1	10.9
Dead Trees per Acre	10	0	10	0	0	0
Dead Basal Area (sq.ft/a)	2.7	0.0	3.5	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	53	0	75	0	0	0

8 Years After Treatment (1989)

	1	2	3	4	5	6
Live Trees per Acre	340	410	320	280	310	360
Live Basal Area (sq.ft/a)	178.5	239.1	151.7	201.0	222.0	248.0
Live Total Volume (cu.ft/a)	4658	6710	3692	5997	6920	7766
Crown Competition Factor	200	268	187	215	230	270
Relative Density Index	57.0	74.4	49.7	59.4	65.6	74.0
Mean Diameter (in)	9.8	10.3	9.3	11.5	11.5	11.2
Dead Trees per Acre	20	0	30	0	0	0
Dead Basal Area (sq.ft/a)	3.7	0.0	10.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	71	0	206	0	0	0

10 Years After Treatment (1991)

	1	2	3	4	5	6
Live Trees per Acre	340	410	320	280	310	360
Live Basal Area (sq.ft/a)	193.2	256.8	166.8	212.7	237.0	259.9
Crown Competition Factor	216	283	200	224	242	280
Relative Density Index	60.5	78.5	53.3	61.9	68.9	76.6
Mean Diameter (in)	10.2	10.7	9.8	11.8	11.8	11.5
Dead Trees per Acre	20	0	30	0	0	0
Dead Basal Area (sq.ft/a)	3.7	0.0	10.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	71	0	204	0	0	0

Plot Summary Report

Installation 241 WOODY MTN
 Region: Central Washington Ownership: Washington DNR
 Legal Description: T33N R24E Section 9 Meridian: Willamette

Plot Number	1	2	3	4	5	6
Initial Treatment (1981)	200#N	400#N	0#N	0#N	200#N	400#N
Second Treatment (1987)	200#N	None	None	N+K	None	200#N

MENSURATIONAL CHARACTERISTICS:

At Time of Treatment (1981) Stand Age = 72

Live Trees per Acre	360	340	230	270	280	340
Live Basal Area (sq.ft/a)	130.6	123.4	73.6	96.9	132.7	125.2
Live Total Volume (cu.ft/a)	2907	2792	1582	2193	3372	2886
Crown Competition Factor	152	145	93	122	159	150
Relative Density Index	45.7	43.2	26.6	34.0	43.5	43.7
Mean Diameter (in)	8.2	8.2	7.7	8.1	9.3	8.2
Average Crown Ratio (%)	42.0	50.0	51.0	52.0	42.0	47.0
Site Height (feet)	62.3	62.7	56.7	62.9	73.1	64.0
Species Composition (% of BA)						
Douglas-fir	76.6	78.8	94.5	100.0	98.7	84.8
Western Larch	0.0	0.0	0.0	0.0	0.0	2.4
Lodgepole Pine	0.0	0.0	5.5	0.0	0.0	0.0
Ponderosa Pine	23.4	21.2	0.0	0.0	1.3	12.8

2 Years After Treatment (1983)

Live Trees per Acre	350	340	230	270	280	340
Live Basal Area (sq.ft/a)	138.4	138.5	80.9	105.9	144.6	142.7
Crown Competition Factor	162	159	100	131	170	168
Relative Density Index	47.4	47.1	28.5	36.4	46.4	48.2
Mean Diameter (in)	8.5	8.6	8.0	8.5	9.7	8.8
Dead Trees per Acre	10	0	0	0	0	0
Dead Basal Area (sq.ft/a)	4.1	0.0	0.0	0.0	0.0	0.0

4 Years After Treatment (1985)

Live Trees per Acre	340	340	230	270	280	340
Live Basal Area (sq.ft/a)	146.5	155.8	89.4	115.3	157.3	161.7
Live Total Volume (cu.ft/a)	3468	3758	2021	2758	4187	3991
Crown Competition Factor	169	175	109	141	182	188
Relative Density Index	49.1	51.5	30.8	38.8	49.4	52.9
Mean Diameter (in)	8.9	9.2	8.4	8.9	10.2	9.3
Dead Trees per Acre	20	0	0	0	0	0
Dead Basal Area (sq.ft/a)	9.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	218	0	0	0	0	0

6 Years After Treatment (1987)

Live Trees per Acre	320	340	230	270	270	340
Live Basal Area (sq.ft/a)	148.4	165.2	95.6	121.7	154.5	172.1
Live Total Volume (cu.ft/a)	3591	4084	2204	2981	4188	4375
Crown Competition Factor	171	188	116	149	178	196
Relative Density Index	48.9	53.8	32.4	40.4	48.3	55.4
Mean Diameter (in)	9.2	9.4	8.7	9.1	10.2	9.6
Dead Trees per Acre	40	0	0	0	10	0
Dead Basal Area (sq.ft/a)	14.2	0.0	0.0	0.0	9.7	0.0
Dead Total Volume (cu.ft/a)	339	1	0	0	270	0

8 Years After Treatment (1989)

Live Trees per Acre	300	330	230	270	260	330
Live Basal Area (sq.ft/a)	144.6	167.8	100.8	129.7	158.5	177.2
Live Total Volume (cu.ft/a)	3562	4235	2363	3253	4371	4611
Crown Competition Factor	168	190	121	158	181	200
Relative Density Index	47.2	54.0	33.7	42.3	48.8	56.3
Mean Diameter (in)	9.4	9.7	9.0	9.4	10.6	9.9
Dead Trees per Acre	60	10	0	0	20	10
Dead Basal Area (sq.ft/a)	25.7	5.3	0.0	0.0	11.6	5.7
Dead Total Volume (cu.ft/a)	624	125	0	0	313	144

10 Years After Treatment (1991)

Live Trees per Acre	300	330	230	270	260	330
Live Basal Area (sq.ft/a)	151.8	174.7	105.2	136.1	164.4	185.1
Crown Competition Factor	174	197	126	163	187	207
Relative Density Index	48.9	55.7	34.8	43.9	50.1	58.1
Mean Diameter (in)	9.6	9.9	9.2	9.6	10.8	10.1
Dead Trees per Acre	60	10	0	0	20	10
Dead Basal Area (sq.ft/a)	25.7	5.3	0.0	0.0	11.6	5.7
Dead Total Volume (cu.ft/a)	624	125	0	0	313	144

Plot Summary Report

Installation 242 N.F. NINEMILE CREEK
 Region: Central Washington Ownership: Washington DNR
 Legal Description: T39N R24E Section 13 Meridian: Willamette

Plot Number	1	2	3	4	5	6
Initial Treatment (1981)	400#N	0#N	200#N	400#N	200#N	0#N
Second Treatment (1987)	200#N	N+K	200#N	None	None	None

MENSURATIONAL CHARACTERISTICS:

 At Time of Treatment (1981) Stand Age = 87

Live Trees per Acre	470	400	500	300	530	390
Live Basal Area (sq.ft/a)	125.3	117.9	130.6	122.2	176.0	156.7
Live Total Volume (cu.ft/a)	2949	2920	3322	2942	4148	4065
Crown Competition Factor	164	147	163	149	217	186
Relative Density Index	47.4	43.5	49.7	41.6	63.0	53.5
Mean Diameter (in)	7.0	7.4	6.9	8.6	7.8	8.6
Average Crown Ratio (%)	34.0	36.0	37.0	41.0	40.0	37.0
Site Height (feet)	68.2	67.6	71.9	70.0	69.1	78.1
Species Composition (% of BA)						
Douglas-fir	95.9	83.8	87.3	100.0	100.0	98.5
Lodgepole Pine	4.1	16.2	12.7	0.0	0.0	1.5

2 Years After Treatment (1983)

Live Trees per Acre	460	400	500	300	530	390
Live Basal Area (sq.ft/a)	132.3	124.2	138.0	131.5	184.8	162.1
Crown Competition Factor	172	155	171	158	225	192
Relative Density Index	49.1	45.2	51.7	43.9	65.4	54.9
Mean Diameter (in)	7.3	7.5	7.1	9.0	8.0	8.7
Dead Trees per Acre	10	0	0	0	0	0
Dead Basal Area (sq.ft/a)	4.1	0.0	0.0	0.0	0.0	0.0

4 Years After Treatment (1985)

Live Trees per Acre	460	400	500	300	530	390
Live Basal Area (sq.ft/a)	142.4	130.5	145.6	140.3	193.2	167.9
Live Total Volume (cu.ft/a)	3459	3313	3791	3512	4678	4439
Crown Competition Factor	183	161	179	167	233	196
Relative Density Index	51.9	46.9	53.9	46.1	67.6	56.3
Mean Diameter (in)	7.5	7.7	7.3	9.3	8.2	8.9
Dead Trees per Acre	10	0	0	0	0	0
Dead Basal Area (sq.ft/a)	4.1	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	81	0	0	0	0	0

6 Years After Treatment (1987)

Live Trees per Acre	450	400	500	300	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)	3537	3444	3962	3718	4859	4579
Crown Competition Factor	184	164	182	173	238	197
Relative Density Index	52.2	47.7	55.0	47.4	68.7	56.4
Mean Diameter (in)	7.7	7.8	7.4	9.4	8.3	9.1
Dead Trees per Acre	20	0	0	0	0	10
Dead Basal Area (sq.ft/a)	7.2	0.0	0.0	0.0	0.0	1.5
Dead Total Volume (cu.ft/a)	154	0	0	0	0	23

8 Years After Treatment (1989)

Live Trees per Acre	440	400	480	300	530	370
Live Basal Area (sq.ft/a)	149.1	139.3	151.3	151.3	203.7	172.9
Live Total Volume (cu.ft/a)	3685	3629	4069	3912	5085	4742
Crown Competition Factor	188	169	182	177	245	199
Relative Density Index	53.1	49.3	54.9	48.8	70.3	56.8
Mean Diameter (in)	7.9	8.0	7.6	9.6	8.4	9.3
Dead Trees per Acre	30	0	20	0	0	20
Dead Basal Area (sq.ft/a)	9.1	0.0	4.1	0.0	0.0	3.3
Dead Total Volume (cu.ft/a)	216	0	90	0	0	57

10 Years After Treatment (1991)

Live Trees per Acre	440	370	470	300	530	370
Live Basal Area (sq.ft/a)	156.3	136.1	157.9	158.1	209.3	177.3
Crown Competition Factor	194	165	187	183	249	202
Relative Density Index	55.0	47.5	56.4	50.4	71.8	57.9
Mean Diameter (in)	8.1	8.2	7.9	9.8	8.5	9.4
Dead Trees per Acre	30	30	30	0	0	20
Dead Basal Area (sq.ft/a)	9.1	9.8	5.0	0.0	0.0	3.3
Dead Total Volume (cu.ft/a)	216	320	112	0	0	57

Plot Summary Report

Installation 243 STARVATION LAKE
 Region: Northeast Washington Ownership: Washington DNR
 Legal Description: T35N R40E Section 13 Meridian: Willamette

Plot Number	1	2	3	4	5	6
Initial Treatment (1981)	0#N	200#N	400#N	400#N	200#N	0#N
Second Treatment (1987)	N+K	None	200#N	N+K	N+K	None

MENSURATIONAL CHARACTERISTICS:

 At Time of Treatment (1981) Stand Age = 73

Live Trees per Acre	220	210	300	220	260	230
Live Basal Area (sq.ft/a)	101.3	106.7	129.9	154.8	146.0	143.4
Live Total Volume (cu.ft/a)	2412	2478	2978	4414	3726	4090
Crown Competition Factor	122	122	152	169	172	163
Relative Density Index	33.4	34.4	43.5	45.9	45.8	43.9
Mean Diameter (in)	9.2	9.7	8.9	11.4	10.2	10.7
Average Crown Ratio (%)	36.0	41.0	37.0	33.0	37.0	34.0
Site Height (feet)	68.8	61.9	68.4	81.2	72.8	84.0
Species Composition (% of BA)						
Douglas-fir	94.6	80.5	89.5	98.1	100.0	93.8
Western Larch	5.4	13.8	9.4	1.9	0.0	6.2
Ponderosa Pine	0.0	5.7	1.1	0.0	0.0	0.0

2 Years After Treatment (1983)

Live Trees per Acre	220	210	300	220	250	230
Live Basal Area (sq.ft/a)	108.5	115.6	139.4	163.5	151.9	152.0
Crown Competition Factor	128	131	163	178	175	171
Relative Density Index	35.2	36.5	45.9	47.9	46.8	45.8
Mean Diameter (in)	9.5	10.1	9.2	11.7	10.6	11.0
Dead Trees per Acre	0	0	0	0	10	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	2.4	0.0

4 Years After Treatment (1985)

Live Trees per Acre	200	210	290	200	250	220
Live Basal Area (sq.ft/a)	107.0	124.0	147.7	164.7	161.5	155.3
Live Total Volume (cu.ft/a)	2708	3082	3600	4920	4379	4631
Crown Competition Factor	124	138	172	176	184	171
Relative Density Index	34.0	38.4	47.5	47.0	49.0	46.1
Mean Diameter (in)	9.9	10.4	9.7	12.3	10.9	11.4
Dead Trees per Acre	20	0	10	20	10	10
Dead Basal Area (sq.ft/a)	7.6	0.0	1.5	6.8	2.4	4.6
Dead Total Volume (cu.ft/a)	175	0	19	170	58	123

6 Years After Treatment (1987)

Live Trees per Acre	200	210	290	200	250	210
Live Basal Area (sq.ft/a)	112.1	130.8	154.5	170.8	168.4	153.3
Live Total Volume (cu.ft/a)	2896	3325	3840	5192	4659	4669
Crown Competition Factor	129	144	178	181	190	168
Relative Density Index	35.2	40.0	49.1	48.3	50.5	45.1
Mean Diameter (in)	10.1	10.7	9.9	12.5	11.1	11.6
Dead Trees per Acre	20	0	10	20	10	20
Dead Basal Area (sq.ft/a)	7.6	0.0	1.5	6.8	2.4	13.2
Dead Total Volume (cu.ft/a)	175	0	19	170	58	371

8 Years After Treatment (1989)

Live Trees per Acre	200	200	290	180	250	210
Live Basal Area (sq.ft/a)	116.2	131.3	159.5	162.9	174.0	157.8
Live Total Volume (cu.ft/a)	3072	3406	4071	5060	4928	4890
Crown Competition Factor	133	142	182	169	194	171
Relative Density Index	36.2	39.6	50.3	45.4	51.8	46.1
Mean Diameter (in)	10.3	11.0	10.0	12.9	11.3	11.7
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

10 Years After Treatment (1991)

Live Trees per Acre	190	200	290	170	250	200
Live Basal Area (sq.ft/a)	117.8	138.6	169.3	161.0	185.7	164.4
Crown Competition Factor	132	149	190	165	203	175
Relative Density Index	36.1	41.3	52.6	44.4	54.4	46.9
Mean Diameter (in)	10.7	11.3	10.4	13.2	11.7	12.3
Dead Trees per Acre	30	10	10	50	10	30
Dead Basal Area (sq.ft/a)	14.4	3.6	1.5	28.7	2.4	14.9
Dead Total Volume (cu.ft/a)	353	86	19	853	58	404

Plot Summary Report

Installation 244 BIG LOOKOUT MTN #1
 Region: Northeast Oregon Ownership: BLM (Oregon)
 Legal Description: T11S R45E Section 19 Meridian: Willamette

Plot Number	1	2	3	4	5	6
Initial Treatment (1981)	200#N	400#N	0#N	400#N	200#N	0#N
Second Treatment (1987)	200#N	200#N	None	None	None	N+K

MENSURATIONAL CHARACTERISTICS:

 At Time of Treatment (1981) Stand Age = 90

Live Trees per Acre	140	130	180	280	290	220
Live Basal Area (sq.ft/a)	264.7	263.9	265.2	286.7	300.8	251.9
Live Total Volume (cu.ft/a)	7697	8474	9416	8305	9232	6796
Crown Competition Factor	223	219	234	275	299	240
Relative Density Index	61.4	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
Average Crown Ratio (%)	52.0	49.0	38.0	32.0	31.0	38.0
Site Height (feet)	86.4	98.0	108.8	89.5	94.2	84.6
Species Composition (% of BA)						
Douglas-fir	100.0	100.0	100.0	100.0	100.0	100.0

2 Years After Treatment (1983)

Live Trees per Acre	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	62.5	61.2	66.4	78.4	82.1	67.3
Mean Diameter (in)	18.8	19.5	16.6	13.8	13.9	14.7
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0

4 Years After Treatment (1985)

Live Trees per Acre	140	130	180	280	290	220
Live Basal Area (sq.ft/a)	278.8	278.2	278.2	297.6	313.7	263.4
Live Total Volume (cu.ft/a)	8506	9282	10217	9002	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
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	0	0

6 Years After Treatment (1987)

Live Trees per Acre	140	130	180	280	290	220
Live Basal Area (sq.ft/a)	285.6	285.7	284.0	301.9	319.0	269.2
Live Total Volume (cu.ft/a)	8888	9668	10562	9283	10275	7733
Crown Competition Factor	236	232	246	285	311	251
Relative Density Index	64.9	63.8	68.9	80.5	84.7	69.6
Mean Diameter (in)	19.3	20.1	17.0	14.1	14.2	15.0
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	0	0

8 Years After Treatment (1989)

Live Trees per Acre	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	249	287	310	254
Relative Density Index	65.9	64.5	69.7	80.5	84.0	70.5
Mean Diameter (in)	19.5	20.2	17.1	14.4	14.5	15.1
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	93	0

10 Years After Treatment (1991)

Live Trees per Acre	140	130	180	250	260	220
Live Basal Area (sq.ft/a)	296.5	297.1	294.0	306.6	315.7	278.2
Live Total Volume (cu.ft/a)	243	239	252	285	302	257
Crown Competition Factor	66.8	65.7	70.7	79.2	81.7	71.3
Relative Density Index	19.7	20.5	17.3	15.0	14.9	15.2
Mean Diameter (in)	0	0	0	30	30	0
Dead Trees per Acre	0.0	0.0	0.0	4.2	12.1	0.0
Dead Basal Area (sq.ft/a)	0	0	0	72	254	0
Dead Total Volume (cu.ft/a)						

Plot Summary Report

Installation 245 BIG LOOKOUT MTN #2
 Region: Northeast Oregon Ownership: BLM (Oregon)
 Legal Description: T12S R44E Section 12 Meridian: Willamette

Plot Number	1	2	3	4	5	6
Initial Treatment (1981)	400#N	200#N	0#N	200#N	0#N	400#N
Second Treatment (1987)	200#N	200#N	N+K	None	None	N+K

MENSURATIONAL CHARACTERISTICS:

 At Time of Treatment (1981) Stand Age = 52

Live Trees per Acre	150	170	220	340	330	300
Live Basal Area (sq.ft/a)	216.1	178.2	168.3	202.4	142.0	243.2
Live Total Volume (cu.ft/a)	4619	3681	3252	3751	2533	4891
Crown Competition Factor	196	177	178	227	167	253
Relative Density Index	53.6	47.9	48.9	62.6	47.7	69.7
Mean Diameter (in)	16.3	13.9	11.8	10.5	8.9	12.2
Average Crown Ratio (%)	52.0	58.0	43.0	40.0	39.0	41.0
Site Height (feet)	63.7	60.6	53.5	58.3	50.5	62.6
Species Composition (% of BA)						
Douglas-fir	100.0	100.0	100.0	100.0	100.0	100.0

2 Years After Treatment (1983)

Live Trees per Acre	150	170	220	340	330	300
Live Basal Area (sq.ft/a)	224.1	185.8	174.1	211.4	147.4	253.2
Crown Competition Factor	202	182	182	234	172	260
Relative Density Index	55.1	49.4	50.2	64.7	49.0	71.8
Mean Diameter (in)	16.5	14.2	12.1	10.7	9.1	12.4
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0

4 Years After Treatment (1985)

Live Trees per Acre	150	170	200	300	310	300
Live Basal Area (sq.ft/a)	231.6	194.5	174.3	205.9	147.2	264.5
Live Total Volume (cu.ft/a)	5282	4299	3566	4017	2813	5675
Crown Competition Factor	207	188	179	224	169	268
Relative Density Index	56.5	51.1	49.0	61.5	48.2	74.2
Mean Diameter (in)	16.8	14.5	12.6	11.2	9.3	12.7
Dead Trees per Acre	0	0	20	40	20	0
Dead Basal Area (sq.ft/a)	0.0	0.0	6.2	13.5	6.3	0.0
Dead Total Volume (cu.ft/a)	2	0	103	244	108	8

6 Years After Treatment (1987)

Live Trees per Acre	150	170	190	290	290	290
Live Basal Area (sq.ft/a)	238.4	200.9	177.8	207.5	146.4	269.1
Live Total Volume (cu.ft/a)	5583	4558	3717	4133	2865	5926
Crown Competition Factor	212	192	180	224	166	269
Relative Density Index	57.7	52.4	49.1	61.3	47.2	74.5
Mean Diameter (in)	17.1	14.7	13.1	11.5	9.6	13.0
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

8 Years After Treatment (1989)

Live Trees per Acre	130	170	190	260	240	250
Live Basal Area (sq.ft/a)	228.2	204.9	181.6	199.4	141.7	261.7
Live Total Volume (cu.ft/a)	5498	4722	3881	4062	2846	5938
Crown Competition Factor	199	195	183	213	157	257
Relative Density Index	53.9	53.2	49.9	57.9	43.9	70.3
Mean Diameter (in)	17.9	14.9	13.2	11.9	10.4	13.9
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	299	281

10 Years After Treatment (1991)

Live Trees per Acre	130	170	190	260	220	240
Live Basal Area (sq.ft/a)	234.2	210.0	186.8	204.4	143.7	265.3
Crown Competition Factor	202	198	186	217	157	258
Relative Density Index	54.9	54.1	51.0	59.0	43.4	70.3
Mean Diameter (in)	18.2	15.1	13.4	12.0	10.9	14.2
Dead Trees per Acre	20	0	30	80	110	60
Dead Basal Area (sq.ft/a)	13.4	0.0	7.4	29.1	19.9	20.4
Dead Total Volume (cu.ft/a)	283	6	118	524	317	346

Plot Summary Report

Installation 246 KETTLE FALLS
 Region: Northeast Washington Ownership: Washington DNR
 Legal Description: T36N R37E Section 36 Meridian: Willamette

Plot Number	1	2	3	4	5	6
Initial Treatment (1982)	0#N	200#N	400#N	200#N	400#N	0#N
Second Treatment (1988)	N+K	N+K	N+K	200#N	None	None

MENSURATIONAL CHARACTERISTICS:

At Time of Treatment (1982)	Stand Age = 34					
Live Trees per Acre	390	320	490	260	370	250
Live Basal Area (sq.ft/a)	100.7	86.0	113.8	99.1	104.7	94.2
Live Total Volume (cu.ft/a)	1968	1750	2067	2280	2250	2349
Crown Competition Factor	126	109	152	121	138	115
Relative Density Index	38.4	32.5	44.5	34.3	39.0	32.7
Mean Diameter (in)	6.9	7.0	6.5	8.4	7.2	8.3
Average Crown Ratio (%)	44.0	49.0	48.0	47.0	47.0	45.0
Site Height (feet)	51.3	52.2	48.6	64.1	60.7	72.1
Species Composition (% of BA)						
Douglas-fir	88.9	89.1	95.7	100.0	100.0	100.0
Ponderosa Pine	11.1	10.9	4.3	0.0	0.0	0.0
2 Years After Treatment (1984)						
Live Trees per Acre	390	320	490	260	370	250
Live Basal Area (sq.ft/a)	111.8	97.3	129.1	112.1	117.0	102.0
Crown Competition Factor	139	121	169	134	149	122
Relative Density Index	41.5	35.6	49.0	37.6	42.4	34.7
Mean Diameter (in)	7.3	7.5	7.0	8.9	7.6	8.7
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
4 Years After Treatment (1986)						
Live Trees per Acre	390	320	490	260	350	250
Live Basal Area (sq.ft/a)	118.9	104.2	139.1	121.0	124.3	107.8
Live Total Volume (cu.ft/a)	2587	2322	2795	3062	2921	2927
Crown Competition Factor	146	127	180	141	156	127
Relative Density Index	43.5	37.5	51.8	39.8	43.8	36.1
Mean Diameter (in)	7.5	7.7	7.2	9.2	8.1	8.9
Dead Trees per Acre	0	0	0	0	20	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	1.3	0.0
Dead Total Volume (cu.ft/a)	0	1	1	0	25	0
6 Years After Treatment (1988)						
Live Trees per Acre	360	300	450	240	290	250
Live Basal Area (sq.ft/a)	122.2	104.8	136.8	124.1	113.2	111.0
Live Total Volume (cu.ft/a)	2745	2398	2823	3252	2700	3104
Crown Competition Factor	149	126	176	142	140	130
Relative Density Index	43.5	37.0	50.1	39.8	38.9	36.9
Mean Diameter (in)	7.9	8.0	7.5	9.7	8.5	9.0
Dead Trees per Acre	30	20	40	20	80	0
Dead Basal Area (sq.ft/a)	2.0	3.6	7.5	2.0	15.7	0.0
Dead Total Volume (cu.ft/a)	32	76	150	34	373	0
8 Years After Treatment (1990)						
Live Trees per Acre	330	260	440	210	290	240
Live Basal Area (sq.ft/a)	126.1	102.9	142.3	128.1	118.9	114.7
Live Total Volume (cu.ft/a)	2928	2444	3042	3468	2888	3272
Crown Competition Factor	155	125	181	142	146	133
Relative Density Index	43.6	35.3	51.3	39.4	40.4	37.5
Mean Diameter (in)	8.4	8.5	7.7	10.6	8.7	9.4
Dead Trees per Acre	60	60	50	50	80	10
Dead Basal Area (sq.ft/a)	5.8	11.8	11.0	5.1	15.7	0.6
Dead Total Volume (cu.ft/a)	103	258	219	105	379	12
10 Years After Treatment (1992)						
Live Trees per Acre	320	260	440	210	290	230
Live Basal Area (sq.ft/a)	131.5	109.5	150.3	136.7	125.3	117.8
Crown Competition Factor	162	135	190	149	152	134
Relative Density Index	44.6	36.9	53.4	41.4	42.0	37.8
Mean Diameter (in)	8.7	8.8	7.9	10.9	8.9	9.7
Dead Trees per Acre	70	60	50	50	80	20
Dead Basal Area (sq.ft/a)	8.4	11.8	11.0	5.1	15.7	1.5
Dead Total Volume (cu.ft/a)	150	258	219	105	379	33

Plot Summary Report

Installation 247 PARK RAPIDS
 Region: Northeast Washington Ownership: Washington DNR
 Legal Description: T35N R40E Section 24 Meridian: Willamette

Plot Number	1	2	3	4	5	6
Initial Treatment (1982)	200#N	0#N	400#N	200#N	400#N	0#N
Second Treatment (1988)	N+K	None	N+K	None	None	N+K

MENSURATIONAL CHARACTERISTICS:

 At Time of Treatment (1982) Stand Age = 76

Live Trees per Acre	190	200	300	190	210	190
Live Basal Area (sq.ft/a)	143.1	120.7	178.4	124.5	137.0	120.9
Live Total Volume (cu.ft/a)	3985	3464	5072	3258	3804	3184
Crown Competition Factor	154	135	190	141	143	133
Relative Density Index	41.7	37.2	55.2	37.6	41.4	36.8
Mean Diameter (in)	11.8	10.5	10.4	11.0	10.9	10.8
Average Crown Ratio (%)	50.0	40.0	33.0	49.0	41.0	44.0
Site Height (feet)	85.2	81.4	81.5	74.8	79.3	75.1
Species Composition (% of BA)						
Douglas-fir	82.9	89.8	73.4	96.8	78.4	96.0
Western Larch	17.1	4.5	22.6	3.2	0.0	4.1
Lodgepole Pine	0.0	5.8	4.0	0.0	0.0	0.0
Ponderosa Pine	0.0	0.0	0.0	0.0	21.6	0.0

2 Years After Treatment (1984)

Live Trees per Acre	190	200	300	190	210	190
Live Basal Area (sq.ft/a)	154.3	128.4	189.3	137.0	148.7	130.5
Crown Competition Factor	164	142	199	152	153	141
Relative Density Index	44.2	39.0	57.7	40.4	44.1	39.0
Mean Diameter (in)	12.2	10.9	10.8	11.5	11.4	11.2
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0

4 Years After Treatment (1986)

Live Trees per Acre	190	190	270	170	190	190
Live Basal Area (sq.ft/a)	162.7	131.9	181.8	132.9	151.4	136.6
Live Total Volume (cu.ft/a)	4720	3926	5393	3644	4442	3707
Crown Competition Factor	170	143	188	144	152	147
Relative Density Index	46.0	39.3	54.5	38.4	43.6	40.3
Mean Diameter (in)	12.5	11.3	11.1	12.0	12.1	11.5
Dead Trees per Acre	0	10	30	20	20	0
Dead Basal Area (sq.ft/a)	0.0	2.2	15.5	11.9	4.4	0.0
Dead Total Volume (cu.ft/a)	0	43	395	306	106	0

6 Years After Treatment (1988)

Live Trees per Acre	190	190	260	170	190	190
Live Basal Area (sq.ft/a)	167.0	136.1	181.0	138.8	156.7	140.4
Live Total Volume (cu.ft/a)	4937	4123	5490	3896	4712	3900
Crown Competition Factor	173	147	188	148	157	151
Relative Density Index	46.9	40.2	53.9	39.7	44.7	41.1
Mean Diameter (in)	12.7	11.5	11.3	12.2	12.3	11.6
Dead Trees per Acre	0	10	40	20	20	0
Dead Basal Area (sq.ft/a)	0.0	2.2	20.4	11.9	4.4	0.0
Dead Total Volume (cu.ft/a)	0	43	533	306	106	0

8 Years After Treatment (1990)

Live Trees per Acre	190	190	260	170	190	180
Live Basal Area (sq.ft/a)	173.5	141.3	187.4	145.3	163.2	143.2
Live Total Volume (cu.ft/a)	5228	4372	5798	4136	4992	4072
Crown Competition Factor	178	151	193	153	162	153
Relative Density Index	48.2	41.4	55.3	41.1	46.1	41.2
Mean Diameter (in)	12.9	11.7	11.5	12.5	12.6	12.1
Dead Trees per Acre	0	10	40	20	20	10
Dead Basal Area (sq.ft/a)	0.0	2.2	20.4	11.9	4.4	3.7
Dead Total Volume (cu.ft/a)	0	43	533	306	106	92

10 Years After Treatment (1992)

Live Trees per Acre	190	190	250	170	190	180
Live Basal Area (sq.ft/a)	180.4	146.6	191.3	152.7	168.8	151.0
Crown Competition Factor	184	156	196	158	166	159
Relative Density Index	49.7	42.5	55.6	42.6	47.3	42.9
Mean Diameter (in)	13.2	11.9	11.8	12.8	12.8	12.4
Dead Trees per Acre	0	10	50	20	20	10
Dead Basal Area (sq.ft/a)	0.0	2.2	24.0	11.9	4.4	3.7
Dead Total Volume (cu.ft/a)	0	43	627	306	106	92

Plot Summary Report

Installation 248 QUINEY FLAT
 Region: Central Washington Ownership: Boise Cascade
 Legal Description: T5N R14E Section 1 Meridian: Willamette

Plot Number	1	2	3	4	5	6
Initial Treatment (1982)	400#N	0#N	200#N	400#N	0#N	200#N
Second Treatment (1988)	None	None	200#N	200#N	N+K	None

MENSURATIONAL CHARACTERISTICS:

 At Time of Treatment (1982) Stand Age = 64

Live Trees per Acre	220	190	210	180	170	170
Live Basal Area (sq.ft/a)	129.6	117.3	125.7	106.2	118.5	90.9
Live Total Volume (cu.ft/a)	3312	2890	3065	2592	3027	2101
Crown Competition Factor	148	137	141	119	131	101
Relative Density Index	40.2	36.0	38.8	32.9	35.2	28.9
Mean Diameter (in)	10.4	10.6	10.5	10.4	11.3	9.9
Average Crown Ratio (%)	56.0	58.0	50.0	53.0	53.0	51.0
Site Height (feet)	76.3	72.0	69.4	74.4	74.3	65.1
Species Composition (% of BA)						
Douglas-fir	98.7	100.0	92.8	92.9	97.8	81.8
Ponderosa Pine	1.3	0.0	7.2	7.1	2.2	18.2

2 Years After Treatment (1984)

Live Trees per Acre	220	190	210	180	170	170
Live Basal Area (sq.ft/a)	146.1	131.8	142.6	119.9	131.9	106.2
Crown Competition Factor	162	151	157	132	141	116
Relative Density Index	44.0	39.2	42.7	36.1	38.2	32.5
Mean Diameter (in)	11.0	11.3	11.2	11.1	11.9	10.7
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0

4 Years After Treatment (1986)

Live Trees per Acre	220	190	210	180	170	170
Live Basal Area (sq.ft/a)	157.9	143.2	155.8	128.8	142.8	118.1
Live Total Volume (cu.ft/a)	4309	3746	4050	3335	3818	2958
Crown Competition Factor	173	160	168	141	149	127
Relative Density Index	46.6	41.8	45.6	38.1	40.5	35.2
Mean Diameter (in)	11.5	11.8	11.7	11.5	12.4	11.3
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	0	0

6 Years After Treatment (1988)

Live Trees per Acre	220	190	210	180	170	170
Live Basal Area (sq.ft/a)	168.6	154.8	168.3	137.2	154.1	129.1
Live Total Volume (cu.ft/a)	4686	4140	4485	3628	4216	3343
Crown Competition Factor	182	169	177	149	157	135
Relative Density Index	49.0	44.3	48.3	39.9	42.9	37.6
Mean Diameter (in)	11.9	12.2	12.1	11.8	12.9	11.8
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	0	0

8 Years After Treatment (1990)

Live Trees per Acre	220	190	210	180	170	170
Live Basal Area (sq.ft/a)	176.5	163.2	177.1	145.7	165.4	137.1
Live Total Volume (cu.ft/a)	5010	4465	4802	3915	4648	3646
Crown Competition Factor	188	175	183	155	165	142
Relative Density Index	50.7	46.1	50.2	41.8	45.3	39.3
Mean Diameter (in)	12.1	12.6	12.4	12.2	13.4	12.2
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	1	3	0	0

10 Years After Treatment (1992)

Live Trees per Acre	220	190	210	180	170	170
Live Basal Area (sq.ft/a)	184.4	171.8	186.2	151.3	177.0	145.5
Crown Competition Factor	194	181	189	160	173	148
Relative Density Index	52.4	47.9	52.2	43.0	47.6	41.1
Mean Diameter (in)	12.4	12.9	12.8	12.4	13.8	12.5
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	1	3	0	0

Plot Summary Report

Installation 249 KAISER BUTTE #2
 Region: Central Washington Ownership: Boise Cascade
 Legal Description: T6N R15E Section 20 Meridian: Willamette

Plot Number	1	2	3	4	5	6
Initial Treatment (1982)	400#N	0#N	200#N	200#N	0#N	400#N
Second Treatment (1988)	N+K	N+K	N+K	None	None	None

MENSURATIONAL CHARACTERISTICS:

At Time of Treatment (1982) Stand Age = 77

Live Trees per Acre	140	150	200	220	250	250
Live Basal Area (sq.ft/a)	150.5	171.2	201.1	163.2	171.6	176.2
Live Total Volume (cu.ft/a)	4923	5721	6514	5213	5752	5318
Crown Competition Factor	144	167	196	177	174	188
Relative Density Index	40.2	45.0	54.6	47.8	51.2	52.3
Mean Diameter (in)	14.0	14.5	13.6	11.7	11.2	11.4
Average Crown Ratio (%)	47.0	44.0	47.0	44.0	43.0	39.0
Site Height (feet)	98.2	100.4	104.2	91.0	105.3	94.0
Species Composition (% of BA)						
Douglas-fir	100.0	100.0	93.4	100.0	97.1	100.0
Ponderosa Pine	0.0	0.0	6.6	0.0	2.9	0.0

2 Years After Treatment (1984)

Live Trees per Acre	140	150	200	220	250	250
Live Basal Area (sq.ft/a)	162.2	183.2	218.3	175.3	181.9	191.7
Crown Competition Factor	153	175	209	187	183	199
Relative Density Index	42.5	47.4	58.0	50.4	53.5	55.7
Mean Diameter (in)	14.6	15.0	14.2	12.1	11.6	11.9
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0

4 Years After Treatment (1986)

Live Trees per Acre	140	150	200	220	240	250
Live Basal Area (sq.ft/a)	171.6	191.9	231.2	184.9	190.6	204.1
Live Total Volume (cu.ft/a)	5790	6505	7732	6163	6625	6499
Crown Competition Factor	159	181	218	194	188	208
Relative Density Index	44.3	49.0	60.6	52.5	54.9	58.3
Mean Diameter (in)	15.0	15.3	14.6	12.4	12.1	12.2
Dead Trees per Acre	0	0	0	0	10	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.7	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	13	0

6 Years After Treatment (1988)

Live Trees per Acre	140	150	200	220	240	240
Live Basal Area (sq.ft/a)	180.0	201.5	242.8	194.4	200.8	215.8
Live Total Volume (cu.ft/a)	6139	6910	8207	6573	7073	6990
Crown Competition Factor	165	188	227	202	196	215
Relative Density Index	45.9	50.9	62.9	54.5	57.1	60.2
Mean Diameter (in)	15.4	15.7	14.9	12.7	12.4	12.8
Dead Trees per Acre	0	0	0	0	10	10
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.7	1.1
Dead Total Volume (cu.ft/a)	0	0	0	0	13	21

8 Years After Treatment (1990)

Live Trees per Acre	140	150	190	220	230	230
Live Basal Area (sq.ft/a)	186.0	211.1	249.7	199.8	205.8	222.6
Live Total Volume (cu.ft/a)	6402	7313	8631	6861	7384	7343
Crown Competition Factor	169	194	229	206	200	220
Relative Density Index	47.1	52.7	63.4	55.6	57.5	61.0
Mean Diameter (in)	15.6	16.1	15.5	12.9	12.8	13.3
Dead Trees per Acre	0	0	10	0	20	20
Dead Basal Area (sq.ft/a)	0.0	0.0	3.4	0.0	2.4	1.8
Dead Total Volume (cu.ft/a)	0	0	80	0	54	39

10 Years After Treatment (1992)

Live Trees per Acre	140	150	190	220	220	230
Live Basal Area (sq.ft/a)	192.3	220.8	258.7	206.0	209.1	231.1
Crown Competition Factor	173	201	237	210	201	226
Relative Density Index	48.3	54.5	65.1	56.9	57.6	62.7
Mean Diameter (in)	15.9	16.4	15.8	13.1	13.2	13.6
Dead Trees per Acre	0	0	10	0	30	20
Dead Basal Area (sq.ft/a)	0.0	0.0	3.4	0.0	5.9	1.8
Dead Total Volume (cu.ft/a)	0	0	80	0	164	39

Plot Summary Report

Installation 250 QUARTZ CREEK #2
 Region: Northern Idaho Ownership: Potlatch
 Legal Description: T37N R5E Section 5 Meridian: Boise

Plot Number	1	2	3	4	5	6
Initial Treatment (1982)	200#N	400#N	400#N	200#N	0#N	0#N
Second Treatment (1988)	200#N	None	N+K	N+K	N+K	None

MENSURATIONAL CHARACTERISTICS:

 At Time of Treatment (1982) Stand Age = 38

Live Trees per Acre	340	230	490	280	350	350
Live Basal Area (sq.ft/a)	102.6	113.1	138.3	84.3	129.2	118.6
Live Total Volume (cu.ft/a)	1926	2156	2640	1599	2773	2427
Crown Competition Factor	131	131	183	110	161	152
Relative Density Index	37.6	36.7	51.6	30.9	45.0	42.2
Mean Diameter (in)	7.4	9.5	7.2	7.4	8.2	7.9
Average Crown Ratio (%)	67.0	74.0	57.0	69.0	60.0	68.0
Site Height (feet)	54.9	55.2	55.2	55.2	64.2	61.8
Species Composition (% of BA)						
Douglas-fir	96.7	98.9	95.9	83.8	95.3	90.3
Grand Fir	0.4	0.0	3.0	3.0	2.8	9.7
Western Redcedar	2.9	0.0	1.2	10.1	0.0	0.0
Western White Pine	0.0	1.1	0.0	3.1	2.0	0.0

2 Years After Treatment (1984)

Live Trees per Acre	340	230	490	270	350	350
Live Basal Area (sq.ft/a)	126.4	140.2	167.0	100.1	146.8	135.5
Crown Competition Factor	157	157	213	125	179	171
Relative Density Index	44.0	43.1	59.4	34.9	49.6	46.7
Mean Diameter (in)	8.3	10.6	7.9	8.3	8.8	8.4
Dead Trees per Acre	0	0	0	10	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.5	0.0	0.0

4 Years After Treatment (1986)

Live Trees per Acre	340	210	490	270	330	350
Live Basal Area (sq.ft/a)	146.0	160.7	191.0	115.2	161.6	149.8
Live Total Volume (cu.ft/a)	3016	3473	4059	2446	3812	3360
Crown Competition Factor	179	173	237	142	193	187
Relative Density Index	49.0	46.7	65.7	38.7	52.5	50.3
Mean Diameter (in)	8.9	11.9	8.5	8.9	9.5	8.9
Dead Trees per Acre	0	20	0	10	20	0
Dead Basal Area (sq.ft/a)	0.0	3.4	0.0	0.5	2.1	0.0
Dead Total Volume (cu.ft/a)	0	44	0	4	26	0

6 Years After Treatment (1988)

Live Trees per Acre	340	210	490	270	310	350
Live Basal Area (sq.ft/a)	164.3	182.4	211.5	129.0	170.8	165.7
Live Total Volume (cu.ft/a)	3510	4105	4703	2856	4175	3829
Crown Competition Factor	196	191	257	155	199	204
Relative Density Index	53.6	51.4	70.9	42.2	53.9	54.3
Mean Diameter (in)	9.4	12.6	8.9	9.4	10.1	9.3
Dead Trees per Acre	0	20	0	10	40	0
Dead Basal Area (sq.ft/a)	0.0	3.4	0.0	0.5	9.0	0.0
Dead Total Volume (cu.ft/a)	0	44	0	4	177	0

8 Years After Treatment (1990)

Live Trees per Acre	340	210	480	260	300	350
Live Basal Area (sq.ft/a)	187.6	202.7	232.2	143.4	187.2	179.7
Live Total Volume (cu.ft/a)	4136	4734	5415	3331	4749	4287
Crown Competition Factor	219	206	274	168	217	217
Relative Density Index	59.2	55.6	75.7	45.2	57.2	57.7
Mean Diameter (in)	10.1	13.3	9.4	10.1	10.7	9.7
Dead Trees per Acre	0	20	10	20	50	0
Dead Basal Area (sq.ft/a)	0.0	3.4	0.7	3.6	11.6	0.0
Dead Total Volume (cu.ft/a)	0	44	13	51	241	0

10 Years After Treatment (1992)

Live Trees per Acre	340	210	450	260	300	350
Live Basal Area (sq.ft/a)	209.3	224.7	251.5	162.0	207.5	194.6
Crown Competition Factor	240	223	290	185	233	233
Relative Density Index	64.2	60.0	79.1	49.6	61.8	61.3
Mean Diameter (in)	10.6	14.0	10.1	10.7	11.3	10.1
Dead Trees per Acre	0	20	40	20	50	0
Dead Basal Area (sq.ft/a)	0.0	3.4	2.9	3.6	11.6	0.0
Dead Total Volume (cu.ft/a)	0	44	41	51	241	0

Plot Summary Report

Installation 251 GAME CREEK
 Region: Montana Ownership: Champion
 Legal Description: T13N R16W Section 30 Meridian: Principal

Plot Number	1	2	3	4	5	6
Initial Treatment (1982)	200#N	0#N	400#N	200#N	0#N	400#N
Second Treatment (1988)	200#N	N+K	None	N+K	None	200#N

MENSURATIONAL CHARACTERISTICS:

 At Time of Treatment (1982) Stand Age = 60

Live Trees per Acre	320	300	260	470	400	610
Live Basal Area (sq.ft/a)	116.1	132.7	138.9	174.2	165.3	178.7
Live Total Volume (cu.ft/a)	2263	2804	3150	3947	3712	3849
Crown Competition Factor	143	153	157	210	194	229
Relative Density Index	40.7	44.2	44.2	60.7	56.0	66.0
Mean Diameter (in)	8.2	9.0	9.9	8.2	8.7	7.3
Average Crown Ratio (%)	48.0	51.0	48.0	39.0	41.0	35.0
Site Height (feet)	56.5	62.8	63.9	71.4	66.2	61.1
Species Composition (% of BA)						
Douglas-fir	99.4	92.9	92.5	87.2	87.3	95.6
Western Larch	0.6	0.0	3.9	11.2	4.4	4.4
Lodgepole Pine	0.0	0.0	0.0	1.6	6.5	0.0
Ponderosa Pine	0.0	7.1	3.6	0.0	1.8	0.0

2 Years After Treatment (1984)

Live Trees per Acre	320	300	260	470	400	610
Live Basal Area (sq.ft/a)	119.8	137.0	145.0	182.0	169.9	184.7
Crown Competition Factor	148	157	162	217	198	236
Relative Density Index	41.6	45.3	45.6	62.7	57.2	67.7
Mean Diameter (in)	8.3	9.2	10.1	8.4	8.8	7.5
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0

4 Years After Treatment (1986)

Live Trees per Acre	320	300	260	470	400	610
Live Basal Area (sq.ft/a)	122.8	140.9	149.6	188.2	174.5	190.1
Live Total Volume (cu.ft/a)	2482	3099	3517	4446	4010	4215
Crown Competition Factor	151	161	165	222	203	241
Relative Density Index	42.4	46.2	46.7	64.3	58.4	69.2
Mean Diameter (in)	8.4	9.3	10.3	8.6	8.9	7.6
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	0	0

6 Years After Treatment (1988)

Live Trees per Acre	320	300	260	460	400	610
Live Basal Area (sq.ft/a)	125.2	143.9	153.1	190.4	177.3	193.3
Live Total Volume (cu.ft/a)	2578	3234	3669	4619	4143	4363
Crown Competition Factor	153	163	168	223	205	244
Relative Density Index	43.0	47.0	47.5	64.5	59.1	70.0
Mean Diameter (in)	8.5	9.4	10.4	8.7	9.0	7.6
Dead Trees per Acre	0	0	0	10	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	2.3	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	30	0	0

8 Years After Treatment (1990)

Live Trees per Acre	320	300	260	460	400	600
Live Basal Area (sq.ft/a)	130.1	150.9	158.9	198.5	183.1	198.3
Live Total Volume (cu.ft/a)	2722	3469	3891	4924	4345	4545
Crown Competition Factor	158	170	173	230	211	248
Relative Density Index	44.3	48.7	48.8	66.6	60.5	71.1
Mean Diameter (in)	8.6	9.6	10.6	8.9	9.2	7.8
Dead Trees per Acre	0	0	0	10	0	10
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	2.3	0.0	1.0
Dead Total Volume (cu.ft/a)	0	0	0	30	0	19

10 Years After Treatment (1992)

Live Trees per Acre	320	300	260	460	400	600
Live Basal Area (sq.ft/a)	134.5	156.5	163.2	205.1	187.9	203.9
Crown Competition Factor	162	175	176	236	216	253
Relative Density Index	45.4	50.1	49.8	68.2	61.7	72.6
Mean Diameter (in)	8.8	9.8	10.7	9.0	9.3	7.9
Dead Trees per Acre	0	0	0	10	0	10
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	2.3	0.0	1.0
Dead Total Volume (cu.ft/a)	0	0	0	30	0	19

Plot Summary Report

Installation 252 BLACK CANYON RANCH
 Region: Montana Ownership: Champion
 Legal Description: T15N R13W Section 6 Meridian: Principal

Plot Number	1	2	3	4	5	6
Initial Treatment (1982)	0#N	200#N	400#N	0#N	200#N	400#N
Second Treatment (1988)	None	N+K	None	N+K	200#N	200#N

MENSURATIONAL CHARACTERISTICS:

 At Time of Treatment (1982) Stand Age = 89

Live Trees per Acre	420	440	290	430	410	450
Live Basal Area (sq.ft/a)	150.8	123.9	121.4	154.2	131.5	182.3
Live Total Volume (cu.ft/a)	3539	2291	2254	3264	2410	4810
Crown Competition Factor	174	160	149	188	158	203
Relative Density Index	53.0	46.2	41.0	54.2	47.5	62.1
Mean Diameter (in)	8.1	7.2	8.8	8.1	7.7	8.6
Average Crown Ratio (%)	49.0	44.0	55.0	46.0	49.0	43.0
Site Height (feet)	63.4	51.6	52.1	66.5	58.0	71.7
Species Composition (% of BA)						
Douglas-fir	69.0	91.3	100.0	88.8	80.7	59.0
Western Larch	6.7	0.0	0.0	0.0	0.0	9.2
Lodgepole Pine	24.2	6.2	0.0	2.9	0.0	30.4
Ponderosa Pine	0.0	2.5	0.0	8.3	19.3	1.5

2 Years After Treatment (1984)

Live Trees per Acre	420	440	290	430	410	450
Live Basal Area (sq.ft/a)	155.9	131.6	128.8	160.9	139.3	189.7
Crown Competition Factor	178	167	156	195	167	211
Relative Density Index	54.3	48.4	42.9	55.9	49.6	64.0
Mean Diameter (in)	8.3	7.4	9.0	8.3	7.9	8.8
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0

4 Years After Treatment (1986)

Live Trees per Acre	420	440	290	430	410	450
Live Basal Area (sq.ft/a)	160.5	137.5	134.8	166.2	145.6	196.6
Live Total Volume (cu.ft/a)	3901	2639	2607	3624	2795	5388
Crown Competition Factor	182	173	162	200	174	217
Relative Density Index	55.5	50.0	44.4	57.3	51.3	65.7
Mean Diameter (in)	8.4	7.6	9.2	8.4	8.1	9.0
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	0	7

6 Years After Treatment (1988)

Live Trees per Acre	420	440	290	430	410	450
Live Basal Area (sq.ft/a)	162.7	141.1	138.8	170.3	149.4	201.5
Live Total Volume (cu.ft/a)	4017	2762	2744	3788	2930	5634
Crown Competition Factor	184	177	165	203	178	221
Relative Density Index	56.0	51.0	45.3	58.3	52.3	66.9
Mean Diameter (in)	8.4	7.7	9.4	8.5	8.2	9.1
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	0	8

8 Years After Treatment (1990)

Live Trees per Acre	410	430	290	430	390	420
Live Basal Area (sq.ft/a)	164.8	137.2	143.0	177.9	152.5	199.3
Live Total Volume (cu.ft/a)	4103	2642	2900	4067	3074	5671
Crown Competition Factor	185	174	169	211	179	218
Relative Density Index	56.3	49.6	46.4	60.3	52.4	65.3
Mean Diameter (in)	8.6	7.7	9.5	8.7	8.5	9.3
Dead Trees per Acre	10	10	0	0	20	30
Dead Basal Area (sq.ft/a)	2.2	8.4	0.0	0.0	2.0	8.1
Dead Total Volume (cu.ft/a)	71	258	0	1	36	271

10 Years After Treatment (1992)

Live Trees per Acre	390	420	280	420	330	420
Live Basal Area (sq.ft/a)	164.8	138.7	145.1	180.2	120.8	203.8
Crown Competition Factor	185	176	171	214	142	222
Relative Density Index	55.6	49.7	46.5	60.5	42.2	66.4
Mean Diameter (in)	8.8	7.8	9.8	8.9	8.2	9.4
Dead Trees per Acre	30	20	10	10	80	30
Dead Basal Area (sq.ft/a)	4.7	10.5	2.3	3.5	36.9	8.1
Dead Total Volume (cu.ft/a)	129	298	38	81	818	271

Plot Summary Report

Installation 253 ELK CREEK RESERVOIR
 Region: Northern Idaho Ownership: IDL
 Legal Description: T40N R2E Section 36 Meridian: Boise

Plot Number	1	2	3	4	5	6
Initial Treatment (1982)	0#N	200#N	400#N	200#N	400#N	0#N
Second Treatment (1988)	N+K	N+K	200#N	None	N+K	None

MENSURATIONAL CHARACTERISTICS:

 At Time of Treatment (1982) Stand Age = 53

Live Trees per Acre	240	230	260	250	320	180
Live Basal Area (sq.ft/a)	216.7	201.4	179.6	199.4	218.7	203.2
Live Total Volume (cu.ft/a)	8080	7253	5631	6592	7229	7765
Crown Competition Factor	229	213	206	216	241	201
Relative Density Index	60.4	56.6	53.5	57.3	65.4	53.6
Mean Diameter (in)	12.9	12.7	11.3	12.1	11.2	14.4
Average Crown Ratio (%)	38.0	45.0	52.0	49.0	53.0	46.0
Site Height (feet)	107.5	103.2	88.3	92.5	98.4	118.1
Species Composition (% of BA)						
Douglas-fir	79.4	77.9	47.3	70.6	62.8	85.6
Grand Fir	20.6	19.7	42.6	26.7	30.1	0.0
Western Redcedar	0.0	2.4	10.1	2.7	7.2	12.5
Western White Pine	0.0	0.0	0.0	0.0	0.0	1.9

2 Years After Treatment (1984)

Live Trees per Acre	240	230	260	250	320	180
Live Basal Area (sq.ft/a)	228.6	214.1	194.1	211.5	234.7	213.4
Crown Competition Factor	237	224	219	226	257	208
Relative Density Index	62.9	59.2	56.7	59.9	68.9	55.6
Mean Diameter (in)	13.2	13.1	11.7	12.5	11.6	14.7
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0

4 Years After Treatment (1986)

Live Trees per Acre	240	230	260	250	300	180
Live Basal Area (sq.ft/a)	237.8	224.4	207.5	223.2	240.6	223.7
Live Total Volume (cu.ft/a)	9351	8600	7027	7803	8534	8821
Crown Competition Factor	244	234	231	236	256	216
Relative Density Index	64.8	61.4	59.7	62.4	69.1	57.6
Mean Diameter (in)	13.5	13.4	12.1	12.8	12.1	15.1
Dead Trees per Acre	0	0	0	0	20	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	9.9	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	285	0

6 Years After Treatment (1988)

Live Trees per Acre	230	230	260	250	300	170
Live Basal Area (sq.ft/a)	247.7	235.4	221.5	232.8	255.2	225.7
Live Total Volume (cu.ft/a)	10067	9288	7735	8344	9308	9101
Crown Competition Factor	249	243	241	244	271	215
Relative Density Index	66.1	63.6	62.7	64.4	72.2	57.1
Mean Diameter (in)	14.1	13.7	12.5	13.1	12.5	15.6
Dead Trees per Acre	10	0	0	0	20	10
Dead Basal Area (sq.ft/a)	1.4	0.0	0.0	0.0	9.9	5.3
Dead Total Volume (cu.ft/a)	33	0	0	0	285	178

8 Years After Treatment (1990)

Live Trees per Acre	230	230	253	250	300	170
Live Basal Area (sq.ft/a)	258.5	245.3	229.2	241.6	270.6	233.4
Live Total Volume (cu.ft/a)	10800	9903	8226	8878	10210	9648
Crown Competition Factor	257	251	247	251	287	221
Relative Density Index	68.2	65.6	63.9	66.2	75.5	58.6
Mean Diameter (in)	14.4	14.0	12.9	13.3	12.9	15.9
Dead Trees per Acre	10	0	7	0	20	10
Dead Basal Area (sq.ft/a)	1.4	0.0	5.6	0.0	9.9	5.3
Dead Total Volume (cu.ft/a)	33	0	207	0	286	178

10 Years After Treatment (1992)

Live Trees per Acre	220	220	253	250	300	170
Live Basal Area (sq.ft/a)	259.7	252.5	241.4	250.6	285.0	241.9
Crown Competition Factor	255	254	257	259	299	227
Relative Density Index	67.7	66.3	66.4	68.1	78.5	60.2
Mean Diameter (in)	14.7	14.5	13.2	13.6	13.2	16.1
Dead Trees per Acre	20	10	7	0	20	10
Dead Basal Area (sq.ft/a)	11.6	3.8	5.6	0.0	9.9	5.3
Dead Total Volume (cu.ft/a)	412	138	207	0	286	178

Plot Summary Report

Installation 254 CRANBERRY CREEK
 Region: Northern Idaho Ownership: IDL
 Legal Description: T38N R2E Section 12 Meridian: Boise

Plot Number	1	2	3	4	5	6
Initial Treatment (1982)	200#N	400#N	0#N	0#N	200#N	400#N
Second Treatment (1988)	200#N	N+K	None	N+K	None	200#N

MENSURATIONAL CHARACTERISTICS:

At Time of Treatment (1982) Stand Age = 27

Live Trees per Acre	610	380	600	360	360	450
Live Basal Area (sq.ft/a)	109.6	82.3	89.3	75.5	102.3	94.4
Live Total Volume (cu.ft/a)	2044	1450	1521	1285	1891	1559
Crown Competition Factor	165	110	135	104	132	131
Relative Density Index	45.7	32.8	39.1	30.3	38.1	37.9
Mean Diameter (in)	5.7	6.3	5.2	6.2	7.2	6.2
Average Crown Ratio (%)	62.0	71.0	57.0	65.0	77.0	71.0
Site Height (feet)	52.4	49.8	45.0	46.1	53.1	46.2
Species Composition (% of BA)						
Douglas-fir	71.9	59.0	75.0	93.3	73.5	59.6
Grand Fir	28.1	17.3	18.5	4.0	11.2	15.8
Western Redcedar	0.0	16.5	4.3	1.1	12.1	22.5
Western Larch	0.0	7.3	2.2	1.5	3.2	2.1

2 Years After Treatment (1984)

Live Trees per Acre	610	380	600	360	360	440
Live Basal Area (sq.ft/a)	135.6	103.8	107.2	91.5	124.4	115.2
Crown Competition Factor	196	134	157	121	156	155
Relative Density Index	53.7	39.0	44.8	35.0	44.1	43.8
Mean Diameter (in)	6.4	7.1	5.7	6.8	8.0	6.9
Dead Trees per Acre	0	0	0	0	0	10
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	3.0

4 Years After Treatment (1986)

Live Trees per Acre	610	380	600	360	360	440
Live Basal Area (sq.ft/a)	155.4	123.3	121.3	105.0	143.2	138.4
Live Total Volume (cu.ft/a)	3344	2482	2344	2002	3010	2591
Crown Competition Factor	220	161	173	136	179	184
Relative Density Index	59.5	44.4	49.2	38.8	49.0	50.2
Mean Diameter (in)	6.8	7.7	6.1	7.3	8.5	7.6
Dead Trees per Acre	0	0	0	0	0	10
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	3.0
Dead Total Volume (cu.ft/a)	0	0	0	0	0	46

6 Years After Treatment (1988)

Live Trees per Acre	600	380	600	360	350	430
Live Basal Area (sq.ft/a)	167.7	141.6	135.8	118.5	158.2	158.0
Live Total Volume (cu.ft/a)	3780	3011	2747	2368	3489	3126
Crown Competition Factor	235	181	191	150	196	205
Relative Density Index	62.7	49.3	53.5	42.5	52.4	55.2
Mean Diameter (in)	7.2	8.3	6.4	7.8	9.1	8.2
Dead Trees per Acre	10	0	0	0	10	20
Dead Basal Area (sq.ft/a)	3.4	0.0	0.0	0.0	0.4	4.2
Dead Total Volume (cu.ft/a)	73	0	0	0	6	65

8 Years After Treatment (1990)

Live Trees per Acre	600	380	600	360	350	420
Live Basal Area (sq.ft/a)	186.9	161.9	149.6	134.1	173.5	178.6
Live Total Volume (cu.ft/a)	4496	3646	3193	2824	4009	3774
Crown Competition Factor	256	204	207	167	209	228
Relative Density Index	68.0	54.5	57.5	46.7	56.2	60.1
Mean Diameter (in)	7.6	8.8	6.8	8.3	9.5	8.8
Dead Trees per Acre	10	0	0	0	10	30
Dead Basal Area (sq.ft/a)	3.4	0.0	0.0	0.0	0.4	4.8
Dead Total Volume (cu.ft/a)	73	0	0	0	6	72

10 Years After Treatment (1992)

Live Trees per Acre	600	380	600	360	350	420
Live Basal Area (sq.ft/a)	205.3	180.5	162.9	150.1	189.1	200.6
Crown Competition Factor	275	222	222	184	228	251
Relative Density Index	72.9	59.1	61.3	50.8	59.9	65.6
Mean Diameter (in)	7.9	9.3	7.1	8.7	10.0	9.4
Dead Trees per Acre	10	0	0	0	10	30
Dead Basal Area (sq.ft/a)	3.4	0.0	0.0	0.0	0.4	4.8
Dead Total Volume (cu.ft/a)	73	0	0	0	6	72

Plot Number	1	2	3	4	5	6
Initial Treatment (1982)	0#N	200#N	400#N	0#N	200#N	400#N
Second Treatment (1988)	N+K	200#N	200#N	None	None	None

MENSURATIONAL CHARACTERISTICS:

At Time of Treatment (1982) Stand Age = 34

Live Trees per Acre	790	810	670	660	680	600
Live Basal Area (sq.ft/a)	179.5	192.9	175.0	189.8	156.0	168.4
Live Total Volume (cu.ft/a)	3490	3809	3713	4061	3198	3470
Crown Competition Factor	234	258	227	245	202	207
Relative Density Index	70.7	75.1	66.5	70.4	61.3	62.9
Mean Diameter (in)	6.5	6.6	6.9	7.3	6.5	7.2
Average Crown Ratio (%)	43.0	42.0	40.0	39.0	39.0	43.0
Site Height (feet)	53.0	54.0	56.7	58.7	56.1	66.0
Species Composition (% of BA)						
Douglas-fir	87.2	95.0	90.0	92.2	88.8	78.9
Grand Fir	0.0	3.0	3.8	3.5	0.7	5.0
Western Larch	0.0	2.0	6.2	0.4	8.9	13.2
Lodgepole Pine	0.0	0.0	0.0	0.0	1.6	3.0
Ponderosa Pine	12.8	0.0	0.0	3.8	0.0	0.0

2 Years After Treatment (1984)

Live Trees per Acre	790	810	660	660	670	600
Live Basal Area (sq.ft/a)	197.8	213.2	194.6	207.7	173.1	186.8
Crown Competition Factor	252	282	246	261	222	225
Relative Density Index	76.0	80.9	71.8	75.4	66.0	68.0
Mean Diameter (in)	6.8	7.0	7.4	7.6	6.9	7.6
Dead Trees per Acre	0	0	10	0	10	0
Dead Basal Area (sq.ft/a)	0.0	0.0	1.0	0.0	2.6	0.0

4 Years After Treatment (1986)

Live Trees per Acre	760	750	620	590	560	570
Live Basal Area (sq.ft/a)	209.6	222.0	207.2	213.0	168.3	202.4
Live Total Volume (cu.ft/a)	4459	4769	4812	4987	3780	4583
Crown Competition Factor	263	287	258	261	210	240
Relative Density Index	78.6	81.8	74.1	74.7	61.8	71.3
Mean Diameter (in)	7.1	7.4	7.8	8.1	7.4	8.1
Dead Trees per Acre	30	60	50	70	120	30
Dead Basal Area (sq.ft/a)	5.6	9.9	6.6	12.9	24.0	2.5
Dead Total Volume (cu.ft/a)	112	198	131	255	470	44

6 Years After Treatment (1988)

Live Trees per Acre	730	700	590	550	500	560
Live Basal Area (sq.ft/a)	222.3	224.8	220.1	220.3	170.8	213.4
Live Total Volume (cu.ft/a)	4884	5009	5317	5381	4000	5025
Crown Competition Factor	274	287	274	264	209	251
Relative Density Index	81.3	81.2	76.5	75.3	60.7	73.8
Mean Diameter (in)	7.5	7.7	8.3	8.6	7.9	8.4
Dead Trees per Acre	60	110	80	110	180	40
Dead Basal Area (sq.ft/a)	7.5	19.9	9.6	21.7	35.2	3.9
Dead Total Volume (cu.ft/a)	145	407	186	454	698	59

8 Years After Treatment (1990)

Live Trees per Acre	710	700	560	530	470	550
Live Basal Area (sq.ft/a)	240.0	244.6	235.0	236.9	184.4	228.2
Live Total Volume (cu.ft/a)	5449	5607	5920	5972	4497	5556
Crown Competition Factor	288	308	290	280	219	263
Relative Density Index	85.5	86.5	79.4	78.8	63.3	77.3
Mean Diameter (in)	7.9	8.0	8.8	9.1	8.5	8.7
Dead Trees per Acre	80	110	110	130	210	50
Dead Basal Area (sq.ft/a)	9.0	19.9	15.5	22.9	37.7	4.4
Dead Total Volume (cu.ft/a)	168	407	304	473	737	69

10 Years After Treatment (1992)

Live Trees per Acre	680	590	520	500	450	530
Live Basal Area (sq.ft/a)	251.6	246.1	247.9	236.7	189.8	229.3
Crown Competition Factor	300	301	298	278	221	265
Relative Density Index	87.7	83.2	81.1	77.5	64.0	76.8
Mean Diameter (in)	8.2	8.7	9.4	9.3	8.8	8.9
Dead Trees per Acre	110	220	150	160	230	70
Dead Basal Area (sq.ft/a)	11.1	32.2	18.8	36.0	44.4	13.7
Dead Total Volume (cu.ft/a)	212	644	370	793	887	270

Plot Number	1	2	3	4	5	6
Initial Treatment (1982)	0#N	200#N	400#N	0#N	400#N	200#N
Second Treatment (1988)	N+K	N+K	N+K	None	None	200#N
MENSURATIONAL CHARACTERISTICS:						

At Time of Treatment (1982)	Stand Age = 36					

Live Trees per Acre	600	540	600	520	700	450
Live Basal Area (sq.ft/a)	184.0	161.6	180.7	188.2	186.9	139.5
Live Total Volume (cu.ft/a)	4271	3989	4372	4936	4573	3554
Crown Competition Factor	229	209	241	224	231	173
Relative Density Index	67.2	59.4	66.3	65.9	70.7	50.8
Mean Diameter (in)	7.5	7.4	7.4	8.2	7.0	7.5
Average Crown Ratio (%)	41.0	43.0	40.0	39.0	41.0	55.0
Site Height (feet)	70.4	70.5	71.4	82.1	76.2	68.6
Species Composition (% of BA)						
Douglas-fir	64.2	54.4	58.3	70.3	68.8	44.8
Grand Fir	18.5	29.3	24.9	21.9	8.9	24.0
Western Redcedar	0.0	0.0	12.6	0.0	0.0	0.0
Western Larch	6.4	12.6	4.2	7.2	2.4	0.0
Lodgepole Pine	10.9	3.7	0.0	0.5	20.0	31.1

2 Years After Treatment (1984)						
Live Trees per Acre	600	530	580	520	700	440
Live Basal Area (sq.ft/a)	199.2	175.0	200.7	200.7	199.2	152.1
Crown Competition Factor	245	223	260	235	244	187
Relative Density Index	71.3	62.7	71.1	69.2	74.1	53.9
Mean Diameter (in)	7.8	7.8	8.0	8.4	7.2	8.0
Dead Trees per Acre	0	10	20	0	0	10
Dead Basal Area (sq.ft/a)	0.0	0.4	1.1	0.0	0.0	3.2

4 Years After Treatment (1986)						
Live Trees per Acre	540	440	490	510	490	380
Live Basal Area (sq.ft/a)	208.2	171.7	210.2	212.5	173.0	160.4
Live Total Volume (cu.ft/a)	5353	4807	5712	6014	4710	4520
Crown Competition Factor	250	212	263	245	204	192
Relative Density Index	71.8	59.0	70.6	71.9	61.0	54.1
Mean Diameter (in)	8.4	8.5	8.9	8.7	8.1	8.8
Dead Trees per Acre	60	100	110	10	210	70
Dead Basal Area (sq.ft/a)	4.3	14.6	10.0	0.5	35.9	8.3
Dead Total Volume (cu.ft/a)	69	284	175	6	716	150

6 Years After Treatment (1988)						
Live Trees per Acre	520	440	460	500	470	360
Live Basal Area (sq.ft/a)	223.1	184.6	226.3	225.6	181.6	173.2
Live Total Volume (cu.ft/a)	5990	5390	6447	6599	5102	5104
Crown Competition Factor	262	223	276	256	208	202
Relative Density Index	74.9	62.3	73.4	74.8	62.6	56.5
Mean Diameter (in)	8.9	8.8	9.5	9.1	8.4	9.4
Dead Trees per Acre	80	100	140	20	230	90
Dead Basal Area (sq.ft/a)	5.6	14.6	13.0	1.5	39.6	10.0
Dead Total Volume (cu.ft/a)	91	284	222	35	799	180

8 Years After Treatment (1990)						
Live Trees per Acre	510	400	450	470	450	360
Live Basal Area (sq.ft/a)	237.5	193.3	244.0	233.6	190.7	188.0
Live Total Volume (cu.ft/a)	6664	5923	7312	7082	5568	5793
Crown Competition Factor	274	228	292	260	215	218
Relative Density Index	78.1	63.0	77.3	75.6	64.2	60.1
Mean Diameter (in)	9.2	9.4	10.0	9.6	8.8	9.8
Dead Trees per Acre	90	140	150	50	250	90
Dead Basal Area (sq.ft/a)	7.5	17.6	13.7	5.2	40.8	10.0
Dead Total Volume (cu.ft/a)	126	342	227	111	814	177

10 Years After Treatment (1992)						
Live Trees per Acre	450	390	450	460	440	360
Live Basal Area (sq.ft/a)	245.6	201.6	259.9	244.3	197.5	201.6
Crown Competition Factor	277	235	308	268	220	230
Relative Density Index	77.7	64.6	81.0	77.8	65.6	63.3
Mean Diameter (in)	10.0	9.7	10.3	9.9	9.1	10.1
Dead Trees per Acre	150	150	150	60	260	90
Dead Basal Area (sq.ft/a)	13.6	19.4	13.7	5.8	41.2	10.0
Dead Total Volume (cu.ft/a)	220	393	227	118	821	177

Plot Summary Report

Installation 257 LITTLE CATHERINE CR
 Region: Northeast Oregon Ownership: Boise Cascade
 Legal Description: T4S R41E Section 28 Meridian: Willamette

Plot Number	1	2	3	4	5	6
Initial Treatment (1982)	200#N	0#N	400#N	200#N	400#N	0#N
Second Treatment (1988)	200#N	N+K	None	N+K	200#N	None

MENSURATIONAL CHARACTERISTICS:

At Time of Treatment (1982) Stand Age = 87

Live Trees per Acre	190	170	150	110	210	93
Live Basal Area (sq.ft/a)	197.4	196.4	164.9	203.8	187.8	108.6
Live Total Volume (cu.ft/a)	5183	5730	4580	5975	5140	2753
Crown Competition Factor	189	185	162	172	171	99
Relative Density Index	53.1	51.5	43.8	47.5	52.5	28.4
Mean Diameter (in)	13.8	14.6	14.2	18.4	12.8	14.6
Average Crown Ratio (%)	54.0	66.0	61.0	72.0	56.0	74.0
Site Height (feet)	72.8	86.5	81.1	88.7	83.8	74.0
Species Composition (% of BA)						
Douglas-fir	89.2	100.0	100.0	89.5	85.1	93.4
Grand Fir	8.7	0.0	0.0	0.0	0.0	0.0
Ponderosa Pine	2.2	0.0	0.0	10.5	14.9	6.6

2 Years After Treatment (1984)

Live Trees per Acre	190	170	150	110	210	93
Live Basal Area (sq.ft/a)	210.6	207.1	177.3	215.7	200.5	115.9
Crown Competition Factor	199	192	171	180	181	104
Relative Density Index	55.8	53.6	46.2	49.5	55.1	29.8
Mean Diameter (in)	14.3	15.0	14.7	19.0	13.2	15.1
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0

4 Years After Treatment (1986)

Live Trees per Acre	190	170	150	110	210	93
Live Basal Area (sq.ft/a)	217.4	214.1	183.8	222.3	207.2	120.8
Live Total Volume (cu.ft/a)	5855	6369	5100	6584	5650	3070
Crown Competition Factor	204	197	175	184	185	108
Relative Density Index	57.1	54.9	47.5	50.7	56.5	30.8
Mean Diameter (in)	14.5	15.2	15.0	19.3	13.5	15.4
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	4	1	5	0	3	0

6 Years After Treatment (1988)

Live Trees per Acre	180	170	150	100	210	93
Live Basal Area (sq.ft/a)	214.5	218.0	186.0	194.4	210.8	123.0
Live Total Volume (cu.ft/a)	5800	6485	5158	5708	5745	3138
Crown Competition Factor	199	200	177	162	188	109
Relative Density Index	55.8	55.7	47.9	44.7	57.2	31.2
Mean Diameter (in)	14.8	15.3	15.1	18.9	13.6	15.5
Dead Trees per Acre	10	0	0	10	0	0
Dead Basal Area (sq.ft/a)	7.9	0.0	0.0	31.2	0.0	0.0
Dead Total Volume (cu.ft/a)	208	1	5	1006	3	0

8 Years After Treatment (1990)

Live Trees per Acre	150	170	150	100	210	87
Live Basal Area (sq.ft/a)	213.7	221.8	190.0	200.1	216.0	124.2
Live Total Volume (cu.ft/a)	5917	6691	5304	5921	5941	3219
Crown Competition Factor	194	202	179	166	192	109
Relative Density Index	53.2	56.4	48.7	45.7	58.3	30.8
Mean Diameter (in)	16.2	15.5	15.2	19.2	13.7	16.2
Dead Trees per Acre	40	0	0	10	0	7
Dead Basal Area (sq.ft/a)	15.3	0.0	0.0	31.2	0.0	1.8
Dead Total Volume (cu.ft/a)	330	1	4	1006	1	31

10 Years After Treatment (1992)

Live Trees per Acre	120	120	150	100	200	80
Live Basal Area (sq.ft/a)	200.8	191.0	193.8	205.1	204.6	124.8
Crown Competition Factor	175	169	182	169	181	108
Relative Density Index	48.0	46.2	49.4	46.6	55.3	30.3
Mean Diameter (in)	17.5	17.1	15.4	19.4	13.7	16.9
Dead Trees per Acre	70	50	0	10	10	13
Dead Basal Area (sq.ft/a)	33.4	34.6	0.0	31.2	16.9	4.9
Dead Total Volume (cu.ft/a)	724	920	4	1006	537	85

Plot Summary Report

Installation 258 RONDOWA
 Region: Northeast Oregon Ownership: Boise Cascade
 Legal Description: T3N R40E Section 23 Meridian: Willamette

Plot Number	1	2	3	4	5	6
Initial Treatment (1982)	400#N	0#N	200#N	400#N	0#N	200#N
Second Treatment (1988)	200#N	None	None	N+K	N+K	N+K

MENSURATIONAL CHARACTERISTICS:

 At Time of Treatment (1982) Stand Age = 72

Live Trees per Acre	170	120	140	210	240	250
Live Basal Area (sq.ft/a)	174.0	149.0	172.0	230.1	177.6	188.5
Live Total Volume (cu.ft/a)	5644	4791	5964	8350	5548	5987
Crown Competition Factor	168	142	163	221	181	191
Relative Density Index	47.0	38.4	44.4	61.1	52.0	55.0
Mean Diameter (in)	13.7	15.1	15.0	14.2	11.7	11.8
Average Crown Ratio (%)	45.0	39.0	47.0	37.0	43.0	35.0
Site Height (feet)	98.9	92.3	103.8	104.9	88.3	95.8
Species Composition (% of BA)						
Douglas-fir	97.6	96.3	97.7	83.2	79.0	84.3
Grand Fir	0.0	0.0	2.3	2.0	3.7	7.0
Western Larch	0.0	3.7	0.0	14.8	6.9	6.1
Ponderosa Pine	2.4	0.0	0.0	0.0	10.4	2.6

2 Years After Treatment (1984)

Live Trees per Acre	160	120	140	210	230	240
Live Basal Area (sq.ft/a)	171.4	155.4	182.1	241.3	184.2	184.7
Crown Competition Factor	163	146	170	229	188	184
Relative Density Index	45.8	39.6	46.3	63.3	52.9	53.6
Mean Diameter (in)	14.0	15.4	15.4	14.5	12.1	11.9
Dead Trees per Acre	10	0	0	0	10	10
Dead Basal Area (sq.ft/a)	12.0	0.0	0.0	0.0	2.6	11.9

4 Years After Treatment (1986)

Live Trees per Acre	160	120	140	210	220	240
Live Basal Area (sq.ft/a)	180.4	162.2	192.0	251.3	188.0	193.3
Live Total Volume (cu.ft/a)	6078	5295	6842	9308	6083	6243
Crown Competition Factor	169	151	177	235	189	190
Relative Density Index	47.6	40.9	48.2	65.3	53.1	55.5
Mean Diameter (in)	14.4	15.7	15.9	14.8	12.5	12.2
Dead Trees per Acre	10	0	0	0	20	10
Dead Basal Area (sq.ft/a)	12.0	0.0	0.0	0.0	8.3	11.9
Dead Total Volume (cu.ft/a)	363	0	0	0	234	475

6 Years After Treatment (1988)

Live Trees per Acre	160	120	140	210	210	200
Live Basal Area (sq.ft/a)	187.1	167.7	200.5	258.3	185.6	180.5
Live Total Volume (cu.ft/a)	6386	5531	7249	9671	6105	5983
Crown Competition Factor	174	154	183	239	184	174
Relative Density Index	48.9	41.9	49.8	66.7	52.0	50.3
Mean Diameter (in)	14.6	16.0	16.2	15.0	12.7	12.9
Dead Trees per Acre	10	0	0	0	30	50
Dead Basal Area (sq.ft/a)	12.0	0.0	0.0	0.0	15.9	30.0
Dead Total Volume (cu.ft/a)	363	0	0	0	491	974

8 Years After Treatment (1990)

Live Trees per Acre	140	100	140	200	210	180
Live Basal Area (sq.ft/a)	185.6	142.4	208.1	260.1	190.8	165.3
Live Total Volume (cu.ft/a)	6470	4753	7604	9905	6366	5542
Crown Competition Factor	170	130	187	239	188	160
Relative Density Index	47.0	35.4	51.2	66.2	53.1	45.9
Mean Diameter (in)	15.6	16.2	16.5	15.4	12.9	13.0
Dead Trees per Acre	30	20	0	10	30	70
Dead Basal Area (sq.ft/a)	20.3	29.2	0.0	4.0	15.9	48.7
Dead Total Volume (cu.ft/a)	576	958	0	126	491	1606

10 Years After Treatment (1992)

Live Trees per Acre	140	80	140	200	210	180
Live Basal Area (sq.ft/a)	192.0	125.0	215.3	266.4	196.2	168.9
Crown Competition Factor	174	111	192	243	191	162
Relative Density Index	48.2	30.4	52.5	67.4	54.2	46.6
Mean Diameter (in)	15.9	16.9	16.8	15.6	13.1	13.1
Dead Trees per Acre	30	40	0	10	30	70
Dead Basal Area (sq.ft/a)	20.3	51.0	0.0	4.0	15.9	48.7
Dead Total Volume (cu.ft/a)	576	1626	0	126	491	1606

Plot Summary Report

Installation 259 RAILROAD CANYON
 Region: Central Washington Ownership: Longview Fiber
 Legal Description: T25N R18E Section 2 Meridian: Willamette

Plot Number	1	2	3	4	5	6
Initial Treatment (1982)	400#N	200#N	0#N	200#N	400#N	0#N
Second Treatment (1988)	N+K	N+K	N+K	None	200#N	None

MENSURATIONAL CHARACTERISTICS:

At Time of Treatment (1982)	Stand Age = 71					
Live Trees per Acre	300	350	300	390	390	330
Live Basal Area (sq.ft/a)	246.6	160.8	139.2	191.1	223.3	177.7
Live Total Volume (cu.ft/a)	7356	4101	3290	5052	6886	4773
Crown Competition Factor	259	194	165	223	258	208
Relative Density Index	70.4	53.1	45.8	62.1	69.8	56.4
Mean Diameter (in)	12.3	9.2	9.2	9.5	10.3	9.9
Average Crown Ratio (%)	41.0	37.0	42.0	33.0	30.0	39.0
Site Height (feet)	86.4	73.0	70.1	78.9	93.2	81.7
Species Composition (% of BA)						
Douglas-fir	100.0	100.0	99.1	98.7	100.0	100.0
Ponderosa Pine	0.0	0.0	0.9	1.3	0.0	0.0

2 Years After Treatment (1984)						
Live Trees per Acre	300	350	300	390	390	330
Live Basal Area (sq.ft/a)	260.3	171.7	143.9	200.5	237.0	186.6
Crown Competition Factor	269	205	169	231	269	217
Relative Density Index	73.3	55.7	47.0	64.3	73.0	58.5
Mean Diameter (in)	12.6	9.5	9.4	9.7	10.6	10.2
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0

4 Years After Treatment (1986)						
Live Trees per Acre	300	350	300	390	390	330
Live Basal Area (sq.ft/a)	266.1	177.3	147.5	206.3	243.7	190.5
Live Total Volume (cu.ft/a)	8162	4658	3530	5602	7744	5245
Crown Competition Factor	274	210	175	236	274	220
Relative Density Index	74.5	57.1	47.9	65.8	74.5	59.4
Mean Diameter (in)	12.8	9.6	9.5	9.9	10.7	10.3
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	0	0

6 Years After Treatment (1988)						
Live Trees per Acre	300	350	300	390	390	330
Live Basal Area (sq.ft/a)	272.2	182.7	150.9	212.4	250.1	195.2
Live Total Volume (cu.ft/a)	8437	4860	3657	5842	8072	5467
Crown Competition Factor	279	216	177	241	279	226
Relative Density Index	75.8	58.4	48.7	67.2	75.9	60.5
Mean Diameter (in)	12.9	9.8	9.6	10.0	10.8	10.4
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	1	0	0

8 Years After Treatment (1990)						
Live Trees per Acre	300	350	300	390	380	330
Live Basal Area (sq.ft/a)	276.6	187.9	155.8	218.6	254.7	200.5
Live Total Volume (cu.ft/a)	8617	5025	3804	6061	8308	5673
Crown Competition Factor	282	222	182	249	281	231
Relative Density Index	76.7	59.7	49.9	68.7	76.5	61.7
Mean Diameter (in)	13.0	9.9	9.8	10.1	11.1	10.6
Dead Trees per Acre	0	0	0	0	10	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	1.7	0.0
Dead Total Volume (cu.ft/a)	1	1	0	1	48	0

10 Years After Treatment (1992)						
Live Trees per Acre	300	350	300	390	380	330
Live Basal Area (sq.ft/a)	284.1	194.0	161.5	224.8	262.4	206.5
Crown Competition Factor	288	227	189	254	287	238
Relative Density Index	78.3	61.1	51.3	70.1	78.2	63.1
Mean Diameter (in)	13.2	10.1	9.9	10.3	11.3	10.7
Dead Trees per Acre	0	0	0	0	10	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	1.7	0.0
Dead Total Volume (cu.ft/a)	1	1	0	1	48	0

Plot Summary Report

Installation 260 TUMWATER MTN
 Region: Central Washington Ownership: Longview Fiber
 Legal Description: T24N R17E Section 3 Meridian: Willamette

Plot Number	1	2	3	4	5	6
Initial Treatment (1982)	200#N	0#N	400#N	0#N	200#N	400#N
Second Treatment (1988)	N+K	None	N+K	N+K	None	None

MENSURATIONAL CHARACTERISTICS:

 At Time of Treatment (1982) Stand Age = 74

Live Trees per Acre	260	240	270	170	230	240
Live Basal Area (sq.ft/a)	191.8	239.1	220.8	235.0	201.5	211.8
Live Total Volume (cu.ft/a)	6632	8491	7469	7655	5962	7242
Crown Competition Factor	195	237	218	213	208	215
Relative Density Index	56.2	65.0	63.1	58.9	56.6	59.4
Mean Diameter (in)	11.6	13.5	12.2	15.9	12.7	12.7
Average Crown Ratio (%)	33.0	36.0	32.0	43.0	36.0	35.0
Site Height (feet)	107.9	103.7	105.2	94.3	86.0	101.1
Species Composition (% of BA)						
Douglas-fir	90.7	96.2	84.5	98.8	100.0	92.1
Grand Fir	0.7	3.8	3.4	1.2	0.0	4.6
Ponderosa Pine	8.6	0.0	12.1	0.0	0.0	3.3

2 Years After Treatment (1984)

Live Trees per Acre	250	240	270	170	230	230
Live Basal Area (sq.ft/a)	198.2	249.6	231.4	241.7	210.9	216.9
Crown Competition Factor	196	245	226	218	215	217
Relative Density Index	57.1	67.2	65.4	60.2	58.6	59.8
Mean Diameter (in)	12.1	13.8	12.5	16.1	13.0	13.2
Dead Trees per Acre	10	0	0	0	0	10
Dead Basal Area (sq.ft/a)	6.1	0.0	0.0	0.0	0.0	4.4

4 Years After Treatment (1986)

Live Trees per Acre	250	240	270	170	230	230
Live Basal Area (sq.ft/a)	206.7	256.9	239.8	249.6	219.7	225.8
Live Total Volume (cu.ft/a)	7591	9395	8419	8388	6813	8017
Crown Competition Factor	202	250	232	224	221	224
Relative Density Index	58.9	68.6	67.1	61.6	60.4	61.7
Mean Diameter (in)	12.3	14.0	12.8	16.4	13.2	13.4
Dead Trees per Acre	10	0	0	0	0	10
Dead Basal Area (sq.ft/a)	6.1	0.0	0.0	0.0	0.0	4.4
Dead Total Volume (cu.ft/a)	117	0	0	0	0	138

6 Years After Treatment (1988)

Live Trees per Acre	210	240	270	160	230	200
Live Basal Area (sq.ft/a)	183.5	263.3	246.0	250.4	226.8	194.3
Live Total Volume (cu.ft/a)	6879	9774	8769	8571	7182	6921
Crown Competition Factor	178	254	236	222	226	192
Relative Density Index	51.6	69.9	68.4	60.8	61.9	53.2
Mean Diameter (in)	12.7	14.2	12.9	16.9	13.5	13.4
Dead Trees per Acre	50	0	0	10	0	40
Dead Basal Area (sq.ft/a)	36.3	0.0	0.0	5.0	0.0	42.0
Dead Total Volume (cu.ft/a)	1170	0	0	174	0	1543

8 Years After Treatment (1990)

Live Trees per Acre	190	230	270	150	230	200
Live Basal Area (sq.ft/a)	172.5	256.1	252.9	252.3	234.9	200.4
Live Total Volume (cu.ft/a)	6566	9573	9160	8888	7604	7244
Crown Competition Factor	166	246	241	219	233	196
Relative Density Index	48.0	67.8	69.9	60.2	63.5	54.4
Mean Diameter (in)	12.9	14.3	13.1	17.6	13.7	13.6
Dead Trees per Acre	70	10	0	20	0	40
Dead Basal Area (sq.ft/a)	54.6	13.9	0.0	11.1	0.0	42.0
Dead Total Volume (cu.ft/a)	1894	548	0	349	0	1543

10 Years After Treatment (1992)

Live Trees per Acre	190	230	270	150	230	200
Live Basal Area (sq.ft/a)	182.8	264.0	262.8	264.1	244.1	208.3
Crown Competition Factor	173	251	248	227	239	202
Relative Density Index	50.2	69.3	71.9	62.3	65.4	56.0
Mean Diameter (in)	13.3	14.5	13.4	18.0	14.0	13.8
Dead Trees per Acre	70	10	0	20	0	40
Dead Basal Area (sq.ft/a)	54.6	13.9	0.0	11.1	0.0	42.0
Dead Total Volume (cu.ft/a)	1894	548	0	349	0	1543

Plot Summary Report

Installation 261 SECOND CREEK
 Region: Central Washington Ownership: Longview Fiber
 Legal Description: T26N R18E Section 22 Meridian: Willamette

Plot Number	1	2	3	4	5	6
Initial Treatment (1982)	200#N	0#N	400#N	0#N	400#N	200#N
Second Treatment (1988)	None	None	None	N+K	N+K	N+K

MENSURATIONAL CHARACTERISTICS:

At Time of Treatment (1982) Stand Age = 75

Live Trees per Acre	280	290	250	270	270	270
Live Basal Area (sq.ft/a)	107.4	211.2	126.7	126.2	127.6	181.0
Live Total Volume (cu.ft/a)	2747	7519	3642	3264	3629	5536
Crown Competition Factor	137	232	148	161	162	204
Relative Density Index	37.1	62.1	40.8	41.5	41.8	54.4
Mean Diameter (in)	8.4	11.6	9.6	9.3	9.3	11.1
Average Crown Ratio (%)	41.0	31.0	47.0	40.0	47.0	37.0
Site Height (feet)	73.4	105.2	86.2	75.3	86.2	84.5
Species Composition (% of BA)						
Douglas-fir	89.8	100.0	94.6	73.8	70.4	89.5
Grand Fir	10.2	0.0	5.4	26.2	29.6	10.5

2 Years After Treatment (1984)

Live Trees per Acre	280	290	250	270	270	270
Live Basal Area (sq.ft/a)	121.6	217.7	141.3	134.1	141.3	193.0
Crown Competition Factor	151	236	163	168	175	213
Relative Density Index	40.7	63.6	44.3	43.4	45.1	57.0
Mean Diameter (in)	8.9	11.7	10.2	9.5	9.8	11.5
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0

4 Years After Treatment (1986)

Live Trees per Acre	280	290	250	270	270	270
Live Basal Area (sq.ft/a)	131.4	222.1	151.9	139.8	150.5	201.1
Live Total Volume (cu.ft/a)	3529	8037	4607	3765	4541	6401
Crown Competition Factor	160	240	174	173	185	221
Relative Density Index	43.2	64.5	46.8	44.8	47.3	58.8
Mean Diameter (in)	9.3	11.9	10.6	9.7	10.1	11.7
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	1	0	0	0	0

6 Years After Treatment (1988)

Live Trees per Acre	270	290	250	240	210	260
Live Basal Area (sq.ft/a)	133.2	226.8	161.1	132.4	129.4	201.2
Live Total Volume (cu.ft/a)	3639	8294	4986	3651	4000	6507
Crown Competition Factor	160	243	184	158	151	217
Relative Density Index	43.2	65.6	48.9	41.8	39.7	58.3
Mean Diameter (in)	9.5	12.0	10.9	10.1	10.6	11.9
Dead Trees per Acre	10	0	0	30	60	10
Dead Basal Area (sq.ft/a)	6.3	0.0	0.0	12.8	27.8	6.9
Dead Total Volume (cu.ft/a)	189	1	0	332	802	239

8 Years After Treatment (1990)

Live Trees per Acre	260	290	240	210	210	260
Live Basal Area (sq.ft/a)	138.7	233.4	163.1	123.7	138.2	211.2
Live Total Volume (cu.ft/a)	3858	8618	5092	3438	4360	6951
Crown Competition Factor	165	250	182	142	159	226
Relative Density Index	44.1	67.0	48.8	38.4	41.7	60.5
Mean Diameter (in)	9.9	12.2	11.2	10.4	11.0	12.2
Dead Trees per Acre	20	0	10	60	60	10
Dead Basal Area (sq.ft/a)	8.1	0.0	7.6	29.3	27.8	6.9
Dead Total Volume (cu.ft/a)	226	0	253	817	802	239

10 Years After Treatment (1992)

Live Trees per Acre	250	290	240	210	210	260
Live Basal Area (sq.ft/a)	144.6	238.6	173.1	132.8	148.1	220.5
Crown Competition Factor	168	253	192	153	168	234
Relative Density Index	45.1	68.1	51.1	40.5	43.9	62.4
Mean Diameter (in)	10.3	12.3	11.5	10.8	11.4	12.5
Dead Trees per Acre	30	0	10	60	60	10
Dead Basal Area (sq.ft/a)	11.6	0.0	7.6	29.3	27.8	6.9
Dead Total Volume (cu.ft/a)	302	0	253	817	802	239

Plot Summary Report

Installation 262 STEVENS PASS
 Region: Central Washington Ownership: Longview Fiber
 Legal Description: T26N R15E Section 3 Meridian: Willamette

Plot Number	1	2	3	4	5	6
Initial Treatment (1982)	200#N	400#N	0#N	200#N	400#N	0#N
Second Treatment (1988)	200#N	200#N	None	None	N+K	N+K

MENSURATIONAL CHARACTERISTICS:

 At Time of Treatment (1982) Stand Age = 75

Live Trees per Acre	350	420	350	360	410	360
Live Basal Area (sq.ft/a)	168.9	224.7	173.1	247.2	217.3	282.5
Live Total Volume (cu.ft/a)	4855	7167	5370	8615	6548	9430
Crown Competition Factor	204	263	212	288	261	312
Relative Density Index	55.1	71.4	56.1	73.8	69.2	81.6
Mean Diameter (in)	9.4	9.9	9.5	11.2	9.9	12.0
Average Crown Ratio (%)	38.0	35.0	37.0	32.0	41.0	34.0
Site Height (feet)	86.8	96.7	87.9	95.0	79.8	102.5
Species Composition (% of BA)						
Douglas-fir	76.7	70.9	78.3	47.9	52.7	61.9
Grand Fir	19.2	24.3	20.5	52.1	40.7	15.3
Western Redcedar	0.0	0.0	0.0	0.0	0.9	17.7
Western Hemlock	4.2	4.8	1.1	0.0	5.7	5.2

2 Years After Treatment (1984)

Live Trees per Acre	350	410	350	360	410	340
Live Basal Area (sq.ft/a)	177.8	233.9	180.1	259.8	230.5	272.9
Crown Competition Factor	214	269	219	299	274	301
Relative Density Index	57.2	73.1	57.8	76.6	72.3	78.4
Mean Diameter (in)	9.7	10.2	9.7	11.5	10.2	12.1
Dead Trees per Acre	0	10	0	0	0	20
Dead Basal Area (sq.ft/a)	0.0	1.4	0.0	0.0	0.0	21.6

4 Years After Treatment (1986)

Live Trees per Acre	350	410	340	360	410	330
Live Basal Area (sq.ft/a)	187.5	244.6	180.2	270.0	244.6	276.8
Live Total Volume (cu.ft/a)	5656	8238	5796	9846	7791	9476
Crown Competition Factor	222	278	216	308	286	301
Relative Density Index	59.6	75.6	57.4	78.9	75.6	78.6
Mean Diameter (in)	9.9	10.5	9.9	11.7	10.5	12.4
Dead Trees per Acre	0	10	10	0	0	30
Dead Basal Area (sq.ft/a)	0.0	1.4	6.5	0.0	0.0	26.8
Dead Total Volume (cu.ft/a)	0	22	195	0	0	982

6 Years After Treatment (1988)

Live Trees per Acre	340	410	340	360	410	330
Live Basal Area (sq.ft/a)	194.7	255.4	187.4	280.8	258.4	288.4
Live Total Volume (cu.ft/a)	6013	8796	6137	10434	8441	10028
Crown Competition Factor	227	287	222	314	298	310
Relative Density Index	60.8	78.1	59.1	81.2	78.8	81.1
Mean Diameter (in)	10.3	10.7	10.1	12.0	10.8	12.7
Dead Trees per Acre	10	10	10	0	0	30
Dead Basal Area (sq.ft/a)	2.3	1.4	6.5	0.0	0.0	26.8
Dead Total Volume (cu.ft/a)	58	22	195	4	0	982

8 Years After Treatment (1990)

Live Trees per Acre	330	410	310	310	410	290
Live Basal Area (sq.ft/a)	203.9	266.5	182.9	234.0	272.3	278.1
Live Total Volume (cu.ft/a)	6412	9318	6079	8761	9049	9789
Crown Competition Factor	232	295	212	260	309	292
Relative Density Index	62.5	80.7	56.7	68.2	82.0	76.4
Mean Diameter (in)	10.6	10.9	10.4	11.8	11.0	13.3
Dead Trees per Acre	20	10	40	50	0	70
Dead Basal Area (sq.ft/a)	3.8	1.4	18.6	54.8	0.0	49.9
Dead Total Volume (cu.ft/a)	83	22	567	2123	1	1806

10 Years After Treatment (1992)

Live Trees per Acre	330	410	300	310	410	280
Live Basal Area (sq.ft/a)	215.1	277.0	178.2	242.4	286.4	277.5
Crown Competition Factor	244	303	207	266	321	289
Relative Density Index	65.1	83.0	55.2	70.1	85.1	75.6
Mean Diameter (in)	10.9	11.1	10.4	12.0	11.3	13.5
Dead Trees per Acre	20	10	50	50	0	80
Dead Basal Area (sq.ft/a)	3.8	1.4	31.3	54.8	0.0	62.0
Dead Total Volume (cu.ft/a)	83	22	977	2123	1	2268

Plot Summary Report

Installation 263 N.F. TEANAWAY RIVER
 Region: Central Washington Ownership: Washington DNR
 Legal Description: T21N R16E Section 20 Meridian: Willamette

Plot Number	1	2	3	4	5	6
Initial Treatment (1982)	0#N	200#N	400#N	200#N	0#N	400#N
Second Treatment (1988)	None	None	None	200#N	N+K	200#N

MENSURATIONAL CHARACTERISTICS:

At Time of Treatment (1982) Stand Age = 87

Live Trees per Acre	210	200	180	260	220	170
Live Basal Area (sq.ft/a)	128.2	129.6	138.7	209.5	193.2	129.7
Live Total Volume (cu.ft/a)	3513	3572	4439	5867	5462	3496
Crown Competition Factor	139	141	145	222	207	139
Relative Density Index	39.4	39.3	40.2	60.1	54.2	37.7
Mean Diameter (in)	10.6	10.9	11.9	12.2	12.7	11.8
Average Crown Ratio (%)	50.0	49.0	48.0	42.0	44.0	47.0
Site Height (feet)	84.5	82.5	93.3	81.3	84.6	77.5
Species Composition (% of BA)						
Douglas-fir	69.1	85.3	85.5	85.6	100.0	89.5
Grand Fir	14.3	0.0	0.0	3.8	0.0	0.0
Ponderosa Pine	16.6	14.8	14.5	10.6	0.0	10.5

2 Years After Treatment (1984)

Live Trees per Acre	210	200	180	260	220	170
Live Basal Area (sq.ft/a)	135.3	141.7	151.9	220.2	201.7	139.9
Crown Competition Factor	146	152	156	230	214	150
Relative Density Index	41.0	42.0	43.1	62.4	56.0	39.9
Mean Diameter (in)	10.9	11.4	12.4	12.5	13.0	12.3
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0

4 Years After Treatment (1986)

Live Trees per Acre	210	200	180	260	220	170
Live Basal Area (sq.ft/a)	141.7	151.4	162.6	228.7	209.2	147.3
Live Total Volume (cu.ft/a)	4018	4353	5457	6686	6154	4182
Crown Competition Factor	151	161	163	237	219	156
Relative Density Index	42.5	44.1	45.3	64.2	57.6	41.5
Mean Diameter (in)	11.1	11.8	12.9	12.7	13.2	12.6
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	0	0

6 Years After Treatment (1988)

Live Trees per Acre	210	200	180	250	220	170
Live Basal Area (sq.ft/a)	149.1	160.6	173.7	230.5	217.9	155.7
Live Total Volume (cu.ft/a)	4308	4727	5939	6835	6556	4522
Crown Competition Factor	157	167	171	234	225	162
Relative Density Index	44.1	46.1	47.6	63.9	59.4	43.2
Mean Diameter (in)	11.4	12.1	13.3	13.0	13.5	13.0
Dead Trees per Acre	0	0	0	10	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	9.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	313	0	0

8 Years After Treatment (1990)

Live Trees per Acre	210	200	170	250	220	170
Live Basal Area (sq.ft/a)	155.6	168.1	175.8	238.8	227.9	162.2
Live Total Volume (cu.ft/a)	4565	5032	6155	7207	7005	4782
Crown Competition Factor	163	173	172	240	232	167
Relative Density Index	45.6	47.7	47.4	65.7	61.4	44.6
Mean Diameter (in)	11.7	12.4	13.8	13.2	13.8	13.2
Dead Trees per Acre	0	0	10	10	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	7.5	9.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	243	313	0	0

10 Years After Treatment (1992)

Live Trees per Acre	200	200	170	250	220	170
Live Basal Area (sq.ft/a)	160.0	176.6	185.8	248.6	238.9	168.9
Crown Competition Factor	166	179	178	246	240	172
Relative Density Index	46.0	49.5	49.4	67.7	63.6	46.0
Mean Diameter (in)	12.1	12.7	14.2	13.5	14.1	13.5
Dead Trees per Acre	10	0	10	10	0	0
Dead Basal Area (sq.ft/a)	2.9	0.0	7.5	9.0	0.0	0.0
Dead Total Volume (cu.ft/a)	78	0	243	313	0	0

Plot Number	1	2	3	4	5	6
Initial Treatment (1982)	200#N	0#N	400#N	200#N	0#N	400#N
Second Treatment (1988)	None	None	200#N	200#N	N+K	None

MENSURATIONAL CHARACTERISTICS:

At Time of Treatment (1982) Stand Age = 50

Live Trees per Acre	370	500	680	350	360	380
Live Basal Area (sq.ft/a)	205.8	218.5	256.7	237.6	263.5	242.7
Live Total Volume (cu.ft/a)	5467	5970	6941	6723	7811	6870
Crown Competition Factor	238	261	312	261	288	263
Relative Density Index	64.8	73.0	89.0	71.1	77.4	73.8
Mean Diameter (in)	10.1	9.0	8.3	11.2	11.6	10.8
Average Crown Ratio (%)	50.0	37.0	35.0	51.0	41.0	46.0
Site Height (feet)	76.6	81.3	84.6	81.1	81.7	85.4
Species Composition (% of BA)						
Douglas-fir	64.3	75.1	55.7	65.8	68.8	64.1
Grand Fir	27.8	12.7	23.2	28.7	23.2	23.4
Western Redcedar	0.0	0.3	0.0	0.0	0.0	0.0
Western Larch	7.1	10.1	20.0	5.5	8.1	12.5
Engelmann Spruce	0.8	1.8	1.2	0.0	0.0	0.0

2 Years After Treatment (1984)

Live Trees per Acre	370	500	660	350	360	380
Live Basal Area (sq.ft/a)	218.3	226.1	262.0	253.8	274.0	259.0
Crown Competition Factor	248	268	317	276	296	277
Relative Density Index	67.7	74.9	89.7	74.8	79.7	77.5
Mean Diameter (in)	10.4	9.1	8.5	11.5	11.8	11.2
Dead Trees per Acre	0	0	20	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	3.7	0.0	0.0	0.0

4 Years After Treatment (1986)

Live Trees per Acre	370	490	650	350	360	380
Live Basal Area (sq.ft/a)	229.2	225.7	269.7	267.0	283.1	273.0
Live Total Volume (cu.ft/a)	6501	6392	7710	8114	8874	8272
Crown Competition Factor	259	267	323	286	302	289
Relative Density Index	70.2	74.5	91.3	77.6	81.7	80.6
Mean Diameter (in)	10.7	9.2	8.7	11.8	12.0	11.5
Dead Trees per Acre	0	10	30	0	0	0
Dead Basal Area (sq.ft/a)	0.0	6.8	6.3	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	199	148	3	0	0

6 Years After Treatment (1988)

Live Trees per Acre	370	490	610	350	360	370
Live Basal Area (sq.ft/a)	240.9	234.7	274.4	281.4	295.0	286.1
Live Total Volume (cu.ft/a)	7051	6828	8133	8839	9499	8953
Crown Competition Factor	270	275	319	299	312	300
Relative Density Index	72.9	76.7	91.1	80.8	84.3	82.9
Mean Diameter (in)	10.9	9.4	9.1	12.1	12.3	11.9
Dead Trees per Acre	0	10	70	0	0	10
Dead Basal Area (sq.ft/a)	0.0	6.8	14.5	0.0	0.0	1.1
Dead Total Volume (cu.ft/a)	0	199	336	4	1	20

8 Years After Treatment (1990)

Live Trees per Acre	370	480	580	350	360	370
Live Basal Area (sq.ft/a)	252.8	241.1	277.2	297.9	308.5	299.9
Live Total Volume (cu.ft/a)	7632	7209	8529	9641	10257	9675
Crown Competition Factor	280	277	317	313	322	311
Relative Density Index	75.6	77.8	90.6	84.3	87.1	85.9
Mean Diameter (in)	11.2	9.6	9.4	12.5	12.5	12.2
Dead Trees per Acre	0	20	100	0	0	10
Dead Basal Area (sq.ft/a)	0.0	10.3	24.3	0.0	0.0	1.1
Dead Total Volume (cu.ft/a)	0	296	588	5	1	20

10 Years After Treatment (1992)

Live Trees per Acre	370	470	580	350	360	370
Live Basal Area (sq.ft/a)	263.7	248.1	288.6	312.6	321.4	311.8
Crown Competition Factor	289	282	328	324	332	321
Relative Density Index	78.0	79.1	93.4	87.4	89.9	88.5
Mean Diameter (in)	11.4	9.8	9.6	12.8	12.8	12.4
Dead Trees per Acre	0	30	100	0	0	10
Dead Basal Area (sq.ft/a)	0.0	11.7	24.3	0.0	0.0	1.1
Dead Total Volume (cu.ft/a)	0	327	588	5	1	20

Plot Number	1	2	3	4	5	6
Initial Treatment (1982)	400#N	200#N	0#N	0#N	200#N	400#N
Second Treatment (1988)	200#N	200#N	N+K	None	None	None

MENSURATIONAL CHARACTERISTICS:

At Time of Treatment (1982) Stand Age = 32

Live Trees per Acre	260	330	340	320	320	350
Live Basal Area (sq.ft/a)	131.0	129.8	166.9	94.9	130.5	121.6
Live Total Volume (cu.ft/a)	2970	2881	3952	1827	2704	2551
Crown Competition Factor	159	160	197	126	159	153
Relative Density Index	42.3	44.5	54.2	35.0	44.4	43.0
Mean Diameter (in)	9.6	8.5	9.5	7.4	8.7	8.0
Average Crown Ratio (%)	58.0	60.0	49.0	68.0	68.0	56.0
Site Height (feet)	62.3	60.9	67.5	53.5	57.9	63.9
Species Composition (% of BA)						
Douglas-fir	90.0	78.4	89.1	83.0	75.8	94.9
Grand Fir	1.6	12.9	7.0	16.0	14.3	5.1
Western Redcedar	8.4	1.6	0.0	0.0	0.0	0.0
Western Larch	0.0	4.8	2.3	0.0	0.0	0.0
Western White Pine	0.0	2.3	1.6	1.0	9.9	0.0

2 Years After Treatment (1984)

Live Trees per Acre	260	320	340	320	320	350
Live Basal Area (sq.ft/a)	151.4	148.9	182.4	108.3	149.2	139.0
Crown Competition Factor	179	180	212	143	178	171
Relative Density Index	47.1	49.0	57.9	38.6	49.1	47.6
Mean Diameter (in)	10.3	9.2	9.9	7.9	9.3	8.5
Dead Trees per Acre	0	10	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	3.0	0.0	0.0	0.0	0.0

4 Years After Treatment (1986)

Live Trees per Acre	250	320	340	320	300	350
Live Basal Area (sq.ft/a)	164.8	166.8	196.1	120.7	159.0	153.8
Live Total Volume (cu.ft/a)	4099	4107	5108	2572	3704	3540
Crown Competition Factor	189	197	224	156	188	186
Relative Density Index	49.7	53.4	61.2	41.9	50.7	51.3
Mean Diameter (in)	11.0	9.8	10.3	8.3	9.9	9.0
Dead Trees per Acre	10	10	0	0	20	0
Dead Basal Area (sq.ft/a)	4.5	3.0	0.0	0.0	6.3	0.0
Dead Total Volume (cu.ft/a)	105	70	0	0	113	0

6 Years After Treatment (1988)

Live Trees per Acre	250	310	340	310	300	350
Live Basal Area (sq.ft/a)	180.1	181.9	210.2	133.4	174.1	167.2
Live Total Volume (cu.ft/a)	4668	4682	5677	2976	4221	3979
Crown Competition Factor	205	208	236	170	201	198
Relative Density Index	53.1	56.5	64.4	44.8	54.2	54.7
Mean Diameter (in)	11.5	10.4	10.7	8.9	10.3	9.4
Dead Trees per Acre	10	20	0	10	20	0
Dead Basal Area (sq.ft/a)	4.5	3.7	0.0	1.0	6.3	0.0
Dead Total Volume (cu.ft/a)	105	80	0	12	113	0

8 Years After Treatment (1990)

Live Trees per Acre	250	310	340	310	300	340
Live Basal Area (sq.ft/a)	197.7	201.3	227.2	147.3	189.3	178.9
Live Total Volume (cu.ft/a)	5367	5435	6424	3439	4813	4446
Crown Competition Factor	219	224	250	184	215	208
Relative Density Index	57.0	60.9	68.3	48.2	57.7	57.1
Mean Diameter (in)	12.0	10.9	11.1	9.3	10.8	9.8
Dead Trees per Acre	10	20	0	10	20	10
Dead Basal Area (sq.ft/a)	4.5	3.7	0.0	1.0	6.3	2.2
Dead Total Volume (cu.ft/a)	105	80	0	12	113	42

10 Years After Treatment (1992)

Live Trees per Acre	250	310	340	310	300	340
Live Basal Area (sq.ft/a)	214.8	221.0	245.3	162.0	204.8	193.2
Crown Competition Factor	233	241	265	200	228	223
Relative Density Index	60.6	65.4	72.3	51.8	61.2	60.5
Mean Diameter (in)	12.6	11.4	11.5	9.8	11.2	10.2
Dead Trees per Acre	10	20	0	10	20	10
Dead Basal Area (sq.ft/a)	4.5	3.7	0.0	1.0	6.3	2.2
Dead Total Volume (cu.ft/a)	105	80	0	12	113	40

Plot Summary Report

Installation 266 DOUGLAS FALLS #1
 Region: Northeast Washington Ownership: Washington DNR
 Legal Description: T36N R39E Section 16 Meridian: Willamette

Plot Number	1	2	3	4	5	6
Initial Treatment (1982)	400#N	0#N	200#N	0#N	400#N	200#N
Second Treatment (1988)	200#N	None	200#N	N+K	None	None

MENSURATIONAL CHARACTERISTICS:

At Time of Treatment (1982) Stand Age = 83

Live Trees per Acre	230	260	290	220	250	220
Live Basal Area (sq.ft/a)	132.7	110.7	133.8	97.5	136.8	120.6
Live Total Volume (cu.ft/a)	3197	2515	3346	2351	3554	3100
Crown Competition Factor	151	134	157	116	158	138
Relative Density Index	41.4	37.2	44.1	32.5	43.2	38.1
Mean Diameter (in)	10.3	8.8	9.2	9.0	10.0	10.0
Average Crown Ratio (%)	46.0	42.0	42.0	47.0	49.0	45.0
Site Height (feet)	71.8	62.5	73.0	71.9	78.0	74.7
Species Composition (% of BA)						
Douglas-fir	100.0	100.0	91.1	96.6	100.0	97.4
Western Larch	0.0	0.0	3.9	3.5	0.0	0.0
Lodgepole Pine	0.0	0.0	5.1	0.0	0.0	0.0
Ponderosa Pine	0.0	0.0	0.0	0.0	0.0	2.6

2 Years After Treatment (1984)

Live Trees per Acre	230	260	290	220	250	220
Live Basal Area (sq.ft/a)	140.7	116.2	143.0	103.4	147.7	128.3
Crown Competition Factor	159	140	165	121	167	147
Relative Density Index	43.2	38.6	46.4	34.0	45.8	39.9
Mean Diameter (in)	10.6	9.1	9.5	9.3	10.4	10.3
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0

4 Years After Treatment (1986)

Live Trees per Acre	230	260	280	220	250	220
Live Basal Area (sq.ft/a)	147.4	119.9	148.3	107.7	156.1	133.7
Live Total Volume (cu.ft/a)	3713	2824	3887	2712	4264	3582
Crown Competition Factor	165	143	168	125	175	151
Relative Density Index	44.8	39.6	47.2	35.0	47.7	41.1
Mean Diameter (in)	10.8	9.2	9.9	9.5	10.7	10.6
Dead Trees per Acre	0	0	10	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	2.3	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	47	0	0	0

6 Years After Treatment (1988)

Live Trees per Acre	230	260	280	220	250	220
Live Basal Area (sq.ft/a)	155.0	125.3	154.3	112.8	164.6	140.0
Live Total Volume (cu.ft/a)	3990	3011	4130	2897	4602	3819
Crown Competition Factor	172	148	174	131	184	156
Relative Density Index	46.5	40.9	48.7	36.2	49.7	42.6
Mean Diameter (in)	11.1	9.4	10.1	9.7	11.0	10.8
Dead Trees per Acre	0	0	10	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	2.3	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	47	0	0	0

8 Years After Treatment (1990)

Live Trees per Acre	230	260	270	220	250	220
Live Basal Area (sq.ft/a)	163.5	130.6	157.8	121.0	173.8	146.0
Live Total Volume (cu.ft/a)	4300	3191	4345	3179	4943	4038
Crown Competition Factor	179	154	176	139	191	163
Relative Density Index	48.4	42.2	49.0	38.2	51.7	44.0
Mean Diameter (in)	11.4	9.6	10.4	10.0	11.3	11.0
Dead Trees per Acre	0	0	20	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	7.8	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	168	0	0	0

10 Years After Treatment (1992)

Live Trees per Acre	230	260	270	220	250	220
Live Basal Area (sq.ft/a)	175.1	137.7	168.1	130.5	183.3	153.6
Crown Competition Factor	189	162	185	149	200	170
Relative Density Index	50.9	43.9	51.4	40.4	53.8	45.7
Mean Diameter (in)	11.8	9.9	10.7	10.4	11.6	11.3
Dead Trees per Acre	0	0	20	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	7.8	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	168	0	0	0

Plot Summary Report

Installation 267 DOUGLAS FALLS #2
 Region: Northeast Washington Ownership: Washington DNR
 Legal Description: T36N R39E Section 16 Meridian: Willamette

Plot Number	1	2	3	4	5	6
Initial Treatment (1982)	400#N	0#N	200#N	400#N	0#N	200#N
Second Treatment (1988)	None	None	None	N+K	N+K	N+K

MENSURATIONAL CHARACTERISTICS:

At Time of Treatment (1982) Stand Age = 81

Live Trees per Acre	250	200	200	220	210	190
Live Basal Area (sq.ft/a)	157.8	124.5	110.1	120.3	107.1	88.2
Live Total Volume (cu.ft/a)	4106	3371	2988	3295	2583	2106
Crown Competition Factor	180	135	122	138	126	106
Relative Density Index	48.1	38.1	34.7	38.0	34.4	29.0
Mean Diameter (in)	10.8	10.7	10.1	10.0	9.7	9.2
Average Crown Ratio (%)	46.0	48.0	41.0	43.0	43.0	44.0
Site Height (feet)	72.2	80.6	82.6	81.3	68.1	66.8
Species Composition (% of BA)						
Douglas-fir	100.0	100.0	98.5	100.0	100.0	100.0
Lodgepole Pine	0.0	0.0	1.5	0.0	0.0	0.0

2 Years After Treatment (1984)

Live Trees per Acre	250	200	200	220	210	190
Live Basal Area (sq.ft/a)	166.7	132.2	116.7	129.3	112.1	98.9
Crown Competition Factor	188	141	128	145	131	118
Relative Density Index	50.1	39.8	36.3	40.1	35.6	31.6
Mean Diameter (in)	11.1	11.0	10.4	10.4	9.9	9.8
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0

4 Years After Treatment (1986)

Live Trees per Acre	250	200	200	200	210	190
Live Basal Area (sq.ft/a)	175.0	138.3	122.7	129.0	116.2	106.3
Live Total Volume (cu.ft/a)	4780	3904	3449	3666	2887	2639
Crown Competition Factor	194	146	132	142	135	125
Relative Density Index	52.0	41.2	37.7	39.1	36.6	33.4
Mean Diameter (in)	11.3	11.3	10.6	10.9	10.1	10.1
Dead Trees per Acre	0	0	0	20	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	6.7	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	173	0	0

6 Years After Treatment (1988)

Live Trees per Acre	250	200	190	200	200	190
Live Basal Area (sq.ft/a)	181.2	143.9	126.1	136.2	116.5	113.8
Live Total Volume (cu.ft/a)	5052	4134	3612	3953	2969	2889
Crown Competition Factor	199	150	134	149	133	133
Relative Density Index	53.4	42.5	38.0	40.7	36.2	35.2
Mean Diameter (in)	11.5	11.5	11.0	11.2	10.3	10.5
Dead Trees per Acre	0	0	10	20	10	0
Dead Basal Area (sq.ft/a)	0.0	0.0	1.6	6.7	3.8	0.0
Dead Total Volume (cu.ft/a)	0	0	43	173	86	0

8 Years After Treatment (1990)

Live Trees per Acre	250	200	190	200	200	190
Live Basal Area (sq.ft/a)	189.0	150.4	131.5	145.6	122.6	123.4
Live Total Volume (cu.ft/a)	5342	4359	3818	4317	3188	3205
Crown Competition Factor	206	156	139	160	140	143
Relative Density Index	55.1	43.9	39.2	42.9	37.7	37.4
Mean Diameter (in)	11.8	11.7	11.3	11.6	10.6	10.9
Dead Trees per Acre	0	0	10	20	10	0
Dead Basal Area (sq.ft/a)	0.0	0.0	1.6	6.7	3.8	0.0
Dead Total Volume (cu.ft/a)	0	0	43	173	86	0

10 Years After Treatment (1992)

Live Trees per Acre	250	200	190	200	200	190
Live Basal Area (sq.ft/a)	198.3	158.4	138.6	158.4	131.6	135.9
Crown Competition Factor	213	163	144	170	148	152
Relative Density Index	57.1	45.6	40.8	45.6	39.7	40.2
Mean Diameter (in)	12.1	12.1	11.6	12.1	11.0	11.5
Dead Trees per Acre	0	0	10	20	10	0
Dead Basal Area (sq.ft/a)	0.0	0.0	1.6	6.7	3.8	0.0
Dead Total Volume (cu.ft/a)	0	0	43	173	86	0

Plot Summary Report

Installation 268 SHEEP CREEK
 Region: Northeast Washington Ownership: Inland Empire
 Legal Description: T40N R39E Section 8 Meridian: Willamette

Plot Number	1	2	3	4	5	6
Initial Treatment (1982)	200#N	0#N	400#N	400#N	200#N	0#N
Second Treatment (1988)	None	N+K	None	200#N	200#N	None

MENSURATIONAL CHARACTERISTICS:

At Time of Treatment (1982) Stand Age = 55

Live Trees per Acre	370	310	340	280	440	410
Live Basal Area (sq.ft/a)	181.1	145.6	198.6	187.6	216.7	193.3
Live Total Volume (cu.ft/a)	4559	3747	5763	5571	6333	5321
Crown Competition Factor	216	172	219	202	243	217
Relative Density Index	58.9	47.8	61.7	56.4	70.3	63.4
Mean Diameter (in)	9.5	9.3	10.4	11.1	9.5	9.3
Average Crown Ratio (%)	38.0	38.0	37.0	45.0	36.0	39.0
Site Height (feet)	70.4	71.9	82.8	84.5	91.1	86.6
Species Composition (% of BA)						
Douglas-fir	100.0	100.0	97.7	92.7	86.6	90.1
Grand Fir	0.0	0.0	0.3	7.3	6.4	0.0
Western Redcedar	0.0	0.0	0.0	0.0	0.0	5.1
Western Larch	0.0	0.0	0.0	0.0	1.4	0.0
Ponderosa Pine	0.0	0.0	2.0	0.0	0.0	0.0
Engelmann Spruce	0.0	0.0	0.0	0.0	5.6	4.8

2 Years After Treatment (1984)

Live Trees per Acre	370	300	340	280	440	410
Live Basal Area (sq.ft/a)	193.4	150.1	210.9	199.0	232.4	203.3
Crown Competition Factor	228	175	228	211	257	225
Relative Density Index	61.8	48.5	64.6	58.9	74.1	65.8
Mean Diameter (in)	9.8	9.6	10.7	11.4	9.8	9.5
Dead Trees per Acre	0	10	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	4.0	0.0	0.0	0.0	0.0

4 Years After Treatment (1986)

Live Trees per Acre	370	300	330	280	440	410
Live Basal Area (sq.ft/a)	203.1	158.1	219.3	208.5	245.4	213.0
Live Total Volume (cu.ft/a)	5393	4279	6718	6512	7520	6148
Crown Competition Factor	237	183	232	219	267	234
Relative Density Index	64.1	50.4	66.0	61.0	77.2	68.2
Mean Diameter (in)	10.0	9.8	11.0	11.7	10.1	9.8
Dead Trees per Acre	0	10	10	0	0	0
Dead Basal Area (sq.ft/a)	0.0	4.0	2.1	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	106	60	1	1	0

6 Years After Treatment (1988)

Live Trees per Acre	370	300	300	240	390	410
Live Basal Area (sq.ft/a)	210.8	165.0	222.0	203.4	244.0	220.2
Live Total Volume (cu.ft/a)	5724	4584	6965	6535	7729	6508
Crown Competition Factor	245	190	230	205	259	241
Relative Density Index	65.9	52.1	65.1	57.6	74.6	69.9
Mean Diameter (in)	10.2	10.0	11.7	12.5	10.7	9.9
Dead Trees per Acre	0	10	40	40	50	0
Dead Basal Area (sq.ft/a)	0.0	4.0	8.5	12.0	10.0	0.0
Dead Total Volume (cu.ft/a)	0	106	237	373	265	0

8 Years After Treatment (1990)

Live Trees per Acre	370	300	290	230	390	410
Live Basal Area (sq.ft/a)	219.2	175.0	231.8	212.7	257.1	228.9
Live Total Volume (cu.ft/a)	6124	4992	7444	7011	8314	6890
Crown Competition Factor	252	198	236	210	270	248
Relative Density Index	67.9	54.4	66.6	59.0	77.5	72.0
Mean Diameter (in)	10.4	10.3	12.1	13.0	11.0	10.1
Dead Trees per Acre	0	10	50	50	50	0
Dead Basal Area (sq.ft/a)	0.0	4.0	9.3	13.6	10.0	0.0
Dead Total Volume (cu.ft/a)	0	106	252	419	266	0

10 Years After Treatment (1992)

Live Trees per Acre	370	300	290	230	390	410
Live Basal Area (sq.ft/a)	227.5	185.3	241.1	221.1	271.1	237.8
Crown Competition Factor	261	209	242	216	281	258
Relative Density Index	69.8	56.8	68.6	60.7	80.7	74.1
Mean Diameter (in)	10.6	10.6	12.4	13.3	11.3	10.3
Dead Trees per Acre	0	10	50	50	50	0
Dead Basal Area (sq.ft/a)	0.0	4.0	9.3	13.6	10.0	0.0
Dead Total Volume (cu.ft/a)	0	106	252	419	266	0

Plot Summary Report

Installation 269 UPPER BURNT FORK CR
 Region: Montana Ownership: Champion
 Legal Description: T15N R16W Section 27 Meridian: Principal

Plot Number	1	2	3	4	5	6
Initial Treatment (1982)	0#N	200#N	400#N	200#N	400#N	0#N
Second Treatment (1988)	N+K	None	None	200#N	200#N	None

MENSURATIONAL CHARACTERISTICS:

 At Time of Treatment (1982) Stand Age = 57

Live Trees per Acre	320	270	370	290	350	280
Live Basal Area (sq.ft/a)	147.2	130.6	147.7	130.1	157.4	160.4
Live Total Volume (cu.ft/a)	2967	2437	2810	2639	2890	3256
Crown Competition Factor	169	153	175	155	189	181
Relative Density Index	48.6	42.6	50.5	43.2	52.2	50.1
Mean Diameter (in)	9.2	9.4	8.6	9.1	9.1	10.3
Average Crown Ratio (%)	50.0	56.0	52.0	48.0	52.0	54.0
Site Height (feet)	57.9	54.6	55.8	58.9	49.1	60.4
Species Composition (% of BA)						
Douglas-fir	85.0	93.1	94.4	96.5	96.7	92.9
Western Larch	4.5	1.0	3.6	0.0	0.0	4.5
Lodgepole Pine	10.6	5.9	0.0	3.5	3.3	2.6
Engelmann Spruce	0.0	0.0	2.0	0.0	0.0	0.0

2 Years After Treatment (1984)

Live Trees per Acre	320	270	370	290	350	280
Live Basal Area (sq.ft/a)	150.8	137.1	154.6	135.1	165.8	167.0
Crown Competition Factor	174	159	181	159	198	186
Relative Density Index	49.5	44.1	52.3	44.4	54.3	51.6
Mean Diameter (in)	9.3	9.7	8.8	9.2	9.3	10.5
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0

4 Years After Treatment (1986)

Live Trees per Acre	320	270	370	290	350	280
Live Basal Area (sq.ft/a)	154.8	143.0	161.5	140.6	172.6	172.4
Live Total Volume (cu.ft/a)	3252	2814	3257	2978	3325	3651
Crown Competition Factor	177	164	187	164	204	190
Relative Density Index	50.4	45.6	54.0	45.8	56.0	52.9
Mean Diameter (in)	9.4	9.9	9.0	9.4	9.5	10.6
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	0	0

6 Years After Treatment (1988)

Live Trees per Acre	320	270	370	290	350	280
Live Basal Area (sq.ft/a)	156.9	145.8	165.6	144.0	175.6	174.9
Live Total Volume (cu.ft/a)	3351	2939	3415	3115	3459	3775
Crown Competition Factor	179	167	192	166	207	192
Relative Density Index	51.0	46.2	55.0	46.6	56.7	53.5
Mean Diameter (in)	9.5	10.0	9.1	9.5	9.6	10.7
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	1	0	0	0	0	0

8 Years After Treatment (1990)

Live Trees per Acre	310	270	350	290	340	280
Live Basal Area (sq.ft/a)	156.8	153.0	168.9	151.1	181.6	181.8
Live Total Volume (cu.ft/a)	3387	3130	3570	3323	3649	3985
Crown Competition Factor	180	173	194	172	212	198
Relative Density Index	50.5	47.9	55.1	48.3	57.7	55.0
Mean Diameter (in)	9.6	10.2	9.4	9.8	9.9	10.9
Dead Trees per Acre	10	0	20	0	10	0
Dead Basal Area (sq.ft/a)	6.3	0.0	3.9	0.0	2.2	0.0
Dead Total Volume (cu.ft/a)	149	0	62	0	38	0

10 Years After Treatment (1992)

Live Trees per Acre	310	270	350	290	340	270
Live Basal Area (sq.ft/a)	161.4	157.2	173.8	156.6	186.4	184.5
Crown Competition Factor	184	176	198	176	216	200
Relative Density Index	51.6	48.9	56.3	49.7	58.9	55.2
Mean Diameter (in)	9.8	10.3	9.5	10.0	10.0	11.2
Dead Trees per Acre	10	0	20	0	10	10
Dead Basal Area (sq.ft/a)	6.3	0.0	3.9	0.0	2.2	1.2
Dead Total Volume (cu.ft/a)	149	0	62	0	38	13

Plot Summary Report

Installation 270 HOWARD CREEK
 Region: Montana Ownership: Champion
 Legal Description: T12N R23W Section 19 Meridian: Principal

Plot Number	1	2	3	4	5	6
Initial Treatment (1982)	400#N	200#N	0#N	0#N	200#N	400#N
Second Treatment (1988)	None	N+K	N+K	None	None	N+K

MENSURATIONAL CHARACTERISTICS:

 At Time of Treatment (1982) Stand Age = 49

Live Trees per Acre	170	280	260	230	240	280
Live Basal Area (sq.ft/a)	124.6	129.9	111.0	104.3	132.4	139.4
Live Total Volume (cu.ft/a)	2245	2539	2322	1954	2528	3035
Crown Competition Factor	130	142	124	123	150	158
Relative Density Index	36.6	42.8	37.3	34.5	41.8	45.1
Mean Diameter (in)	11.6	9.2	8.9	9.1	10.1	9.6
Average Crown Ratio (%)	77.0	62.0	60.0	71.0	62.0	50.0
Site Height (feet)	52.4	56.3	58.8	54.1	50.5	64.1
Species Composition (% of BA)						
Douglas-fir	99.1	78.2	74.6	95.9	94.6	89.0
Western Larch	0.0	0.0	2.4	0.0	0.0	0.0
Lodgepole Pine	0.0	0.0	14.6	0.0	0.0	0.0
Ponderosa Pine	1.0	21.8	8.4	4.1	5.4	11.0

2 Years After Treatment (1984)

Live Trees per Acre	170	280	260	230	240	280
Live Basal Area (sq.ft/a)	134.2	137.8	115.4	110.1	140.0	145.7
Crown Competition Factor	137	149	127	129	157	163
Relative Density Index	38.7	44.7	38.4	36.0	43.5	46.6
Mean Diameter (in)	12.0	9.5	9.0	9.4	10.3	9.8
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0

4 Years After Treatment (1986)

Live Trees per Acre	170	280	260	230	240	280
Live Basal Area (sq.ft/a)	141.8	146.6	119.2	116.2	146.1	150.9
Live Total Volume (cu.ft/a)	2723	3119	2643	2312	2962	3453
Crown Competition Factor	143	157	130	134	162	169
Relative Density Index	40.3	46.8	39.4	37.5	45.0	47.9
Mean Diameter (in)	12.4	9.8	9.2	9.6	10.6	9.9
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	0	0

6 Years After Treatment (1988)

Live Trees per Acre	170	280	260	230	240	280
Live Basal Area (sq.ft/a)	146.4	152.3	122.4	120.0	149.8	154.5
Live Total Volume (cu.ft/a)	2873	3340	2772	2436	3110	3602
Crown Competition Factor	147	163	133	137	167	172
Relative Density Index	41.3	48.2	40.2	38.4	45.8	48.7
Mean Diameter (in)	12.6	10.0	9.3	9.8	10.7	10.1
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	0	0

8 Years After Treatment (1990)

Live Trees per Acre	170	280	260	230	240	280
Live Basal Area (sq.ft/a)	153.7	161.2	127.7	126.1	156.5	159.6
Live Total Volume (cu.ft/a)	3065	3666	2959	2608	3325	3782
Crown Competition Factor	153	171	138	144	172	176
Relative Density Index	42.8	50.3	41.5	39.8	47.3	49.9
Mean Diameter (in)	12.9	10.3	9.5	10.0	10.9	10.2
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

10 Years After Treatment (1992)

Live Trees per Acre	170	270	260	230	240	280
Live Basal Area (sq.ft/a)	160.0	167.6	132.8	131.6	162.2	162.8
Crown Competition Factor	158	176	142	148	178	178
Relative Density Index	44.2	51.3	42.7	41.1	48.6	50.7
Mean Diameter (in)	13.1	10.7	9.7	10.2	11.1	10.3
Dead Trees per Acre	0	10	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.7	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	12	0	0	0	0

Plot Summary Report

Installation 271 WHITNEY CREEK
 Region: Montana Ownership: Champion
 Legal Description: T25N R27W Section 7 Meridian: Principal

Plot Number	1	2	3	4	5	6
Initial Treatment (1982)	400#N	200#N	0#N	400#N	200#N	0#N
Second Treatment (1988)	N+K	None	None	200#N	N+K	N+K

MENSURATIONAL CHARACTERISTICS:

 At Time of Treatment (1982) Stand Age = 57

Live Trees per Acre	350	340	530	300	540	440
Live Basal Area (sq.ft/a)	158.5	148.9	173.7	130.0	174.0	149.1
Live Total Volume (cu.ft/a)	3598	3705	4157	2974	3764	3224
Crown Competition Factor	168	166	190	141	191	169
Relative Density Index	52.5	49.7	62.4	43.6	62.8	53.1
Mean Diameter (in)	9.1	9.0	7.8	8.9	7.7	7.9
Average Crown Ratio (%)	43.0	40.0	36.0	47.0	42.0	41.0
Site Height (feet)	63.8	65.1	65.5	62.6	57.7	58.0
Species Composition (% of BA)						
Douglas-fir	55.1	70.4	44.9	63.9	48.3	60.6
Western Larch	26.8	10.9	29.5	7.5	9.6	5.9
Lodgepole Pine	0.7	8.4	14.4	8.5	21.2	11.2
Ponderosa Pine	17.5	10.3	11.1	20.1	20.9	22.3

2 Years After Treatment (1984)

Live Trees per Acre	350	340	500	300	450	420
Live Basal Area (sq.ft/a)	167.6	156.3	165.5	138.6	153.6	149.1
Crown Competition Factor	175	173	182	149	169	168
Relative Density Index	54.8	51.6	59.3	45.7	54.6	52.5
Mean Diameter (in)	9.4	9.2	7.8	9.2	7.9	8.1
Dead Trees per Acre	0	0	30	0	90	20
Dead Basal Area (sq.ft/a)	0.0	0.0	13.3	0.0	28.0	3.1

4 Years After Treatment (1986)

Live Trees per Acre	310	310	470	250	370	420
Live Basal Area (sq.ft/a)	156.3	152.2	165.9	130.7	143.5	154.7
Live Total Volume (cu.ft/a)	3683	3946	4053	3065	3044	3437
Crown Competition Factor	166	169	184	141	159	175
Relative Density Index	50.4	49.4	58.5	41.8	49.4	54.0
Mean Diameter (in)	9.6	9.5	8.1	9.8	8.4	8.2
Dead Trees per Acre	40	30	60	50	170	20
Dead Basal Area (sq.ft/a)	21.7	12.5	20.6	17.1	47.7	3.1
Dead Total Volume (cu.ft/a)	558	368	573	484	1239	94

6 Years After Treatment (1988)

Live Trees per Acre	300	300	430	240	370	420
Live Basal Area (sq.ft/a)	162.7	155.6	158.1	131.6	149.9	158.1
Live Total Volume (cu.ft/a)	3932	4132	3862	3152	3262	3582
Crown Competition Factor	172	173	176	141	165	177
Relative Density Index	51.5	49.8	55.2	41.6	51.1	54.8
Mean Diameter (in)	10.0	9.8	8.2	10.0	8.6	8.3
Dead Trees per Acre	50	40	100	60	170	20
Dead Basal Area (sq.ft/a)	22.2	13.6	33.4	22.4	47.7	3.1
Dead Total Volume (cu.ft/a)	565	388	962	611	1239	94

8 Years After Treatment (1990)

Live Trees per Acre	300	290	430	230	370	390
Live Basal Area (sq.ft/a)	172.7	162.3	165.3	136.2	159.1	157.0
Live Total Volume (cu.ft/a)	4287	4403	4124	3350	3555	3614
Crown Competition Factor	181	180	182	147	173	175
Relative Density Index	53.9	51.0	57.1	42.2	53.4	53.6
Mean Diameter (in)	10.3	10.1	8.4	10.4	8.9	8.6
Dead Trees per Acre	50	50	100	70	170	50
Dead Basal Area (sq.ft/a)	22.2	14.2	33.4	26.8	47.7	10.5
Dead Total Volume (cu.ft/a)	565	401	962	712	1239	281

10 Years After Treatment (1992)

Live Trees per Acre	300	290	400	230	350	380
Live Basal Area (sq.ft/a)	179.6	167.6	167.9	142.5	163.4	158.8
Crown Competition Factor	187	184	185	152	176	177
Relative Density Index	55.5	52.2	56.7	43.7	53.7	53.7
Mean Diameter (in)	10.5	10.3	8.8	10.7	9.3	8.8
Dead Trees per Acre	50	50	130	70	190	60
Dead Basal Area (sq.ft/a)	22.2	14.2	36.0	26.8	50.4	13.9
Dead Total Volume (cu.ft/a)	565	401	1013	712	1290	378

Plot Summary Report

Installation 272 INDIAN CREEK Ownership: Champion
 Region: Montana Legal Description: T25N R27W Section 5 Meridian: Principal

Plot Number	1	2	3	4	5	6
Initial Treatment (1982)	0#N	200#N	400#N	400#N	200#N	0#N
Second Treatment (1988)	N+K	None	N+K	200#N	N+K	None

MENSURATIONAL CHARACTERISTICS:

At Time of Treatment (1982)						
Stand Age = 57						
Live Trees per Acre	690	640	560	530	640	620
Live Basal Area (sq.ft/a)	143.2	138.3	122.3	129.7	129.3	144.8
Live Total Volume (cu.ft/a)	3126	3257	2610	2930	3013	3420
Crown Competition Factor	189	176	156	164	168	182
Relative Density Index	57.7	55.1	48.6	50.1	52.4	56.6
Mean Diameter (in)	6.2	6.3	6.3	6.7	6.1	6.5
Average Crown Ratio (%)	31.0	34.0	41.0	33.0	32.0	33.0
Site Height (feet)	64.9	66.0	62.0	62.7	61.7	65.2
Species Composition (% of BA)						
Douglas-fir	83.6	73.6	77.2	83.8	71.5	71.4
Grand Fir	1.6	0.0	0.8	0.0	0.7	1.6
Western Larch	9.5	15.4	11.9	7.0	1.8	4.0
Lodgepole Pine	5.0	11.1	5.5	7.0	26.0	22.2
Ponderosa Pine	0.0	0.0	3.2	1.3	0.0	0.0
Engelmann Spruce	0.4	0.0	1.4	1.0	0.0	0.8
2 Years After Treatment (1984)						
Live Trees per Acre	690	610	560	530	630	620
Live Basal Area (sq.ft/a)	147.8	138.1	129.8	137.8	135.8	151.3
Crown Competition Factor	194	177	164	173	175	189
Relative Density Index	59.0	54.4	50.8	52.5	54.2	58.5
Mean Diameter (in)	6.3	6.4	6.5	6.9	6.3	6.7
Dead Trees per Acre	0	30	0	0	10	0
Dead Basal Area (sq.ft/a)	0.0	9.9	0.0	0.0	1.1	0.0
4 Years After Treatment (1986)						
Live Trees per Acre	680	550	470	420	490	540
Live Basal Area (sq.ft/a)	151.9	139.2	118.8	127.0	111.3	133.1
Live Total Volume (cu.ft/a)	3442	3393	2663	3046	2570	3118
Crown Competition Factor	197	174	148	157	147	169
Relative Density Index	60.1	53.3	45.5	46.5	43.8	51.3
Mean Diameter (in)	6.4	6.8	6.8	7.5	6.5	6.7
Dead Trees per Acre	10	90	90	110	150	80
Dead Basal Area (sq.ft/a)	1.2	18.5	19.3	19.1	33.4	24.0
Dead Total Volume (cu.ft/a)	24	474	425	430	920	719
6 Years After Treatment (1988)						
Live Trees per Acre	660	540	440	390	480	530
Live Basal Area (sq.ft/a)	151.2	145.5	121.8	127.6	118.1	137.6
Live Total Volume (cu.ft/a)	3469	3606	2795	3102	2787	3288
Crown Competition Factor	197	181	148	157	154	173
Relative Density Index	59.4	54.9	45.6	45.9	45.6	52.4
Mean Diameter (in)	6.5	7.0	7.1	7.7	6.7	6.9
Dead Trees per Acre	30	100	120	140	160	90
Dead Basal Area (sq.ft/a)	6.2	19.4	24.1	25.8	34.1	25.2
Dead Total Volume (cu.ft/a)	168	500	530	621	932	751
8 Years After Treatment (1990)						
Live Trees per Acre	640	520	430	390	460	520
Live Basal Area (sq.ft/a)	158.8	151.2	129.2	137.0	124.7	142.9
Live Total Volume (cu.ft/a)	3730	3820	3045	3408	2974	3491
Crown Competition Factor	205	186	155	167	160	179
Relative Density Index	61.1	56.0	47.4	48.4	47.0	53.6
Mean Diameter (in)	6.7	7.3	7.4	8.0	7.1	7.1
Dead Trees per Acre	50	120	130	140	180	100
Dead Basal Area (sq.ft/a)	7.5	21.5	24.9	25.8	37.9	26.8
Dead Total Volume (cu.ft/a)	190	546	546	621	1047	785
10 Years After Treatment (1992)						
Live Trees per Acre	630	520	420	380	440	520
Live Basal Area (sq.ft/a)	166.5	157.5	133.4	141.1	132.3	149.2
Crown Competition Factor	215	193	160	169	167	185
Relative Density Index	63.1	57.7	48.3	49.1	48.6	55.4
Mean Diameter (in)	7.0	7.5	7.6	8.3	7.4	7.3
Dead Trees per Acre	60	120	140	150	200	100
Dead Basal Area (sq.ft/a)	8.2	21.5	27.2	29.1	39.8	26.8
Dead Total Volume (cu.ft/a)	201	546	609	698	1082	785

Plot Summary Report

Installation 273 LITTLE BEAVER CREEK
 Region: Northern Idaho Ownership: Potlatch
 Legal Description: T37N R5E Section 1 Meridian: Boise

Plot Number	1	2	3	4	5	6
Initial Treatment (1982)	200#N	0#N	400#N	200#N	0#N	400#N
Second Treatment (1988)	None	N+K	None	N+K	None	N+K

MENSURATIONAL CHARACTERISTICS:

At Time of Treatment (1982) Stand Age = 36

Live Trees per Acre	420	420	570	400	350	320
Live Basal Area (sq.ft/a)	127.8	144.1	159.6	178.7	143.1	121.0
Live Total Volume (cu.ft/a)	2642	3291	3416	4803	3139	2443
Crown Competition Factor	169	190	207	205	179	143
Relative Density Index	46.8	51.2	59.6	59.4	48.6	41.9
Mean Diameter (in)	7.5	7.9	7.2	9.1	8.7	8.3
Average Crown Ratio (%)	55.0	53.0	53.0	52.0	56.0	55.0
Site Height (feet)	52.8	62.7	65.0	85.4	59.3	55.1
Species Composition (% of BA)						
Douglas-fir	65.8	74.4	65.4	73.2	75.9	80.0
Grand Fir	21.3	19.3	14.2	2.7	10.1	2.6
Western Redcedar	13.0	6.3	10.9	3.3	10.2	7.2
Western Larch	0.0	0.0	9.5	20.9	3.8	10.1

2 Years After Treatment (1984)

Live Trees per Acre	400	420	570	400	350	320
Live Basal Area (sq.ft/a)	144.8	164.7	187.4	202.4	162.5	145.4
Crown Competition Factor	193	212	239	232	200	175
Relative Density Index	50.7	56.6	67.3	65.2	53.5	48.1
Mean Diameter (in)	8.2	8.5	7.8	9.6	9.2	9.1
Dead Trees per Acre	20	0	0	0	0	0
Dead Basal Area (sq.ft/a)	5.1	0.0	0.0	0.0	0.0	0.0

4 Years After Treatment (1986)

Live Trees per Acre	380	420	560	390	340	320
Live Basal Area (sq.ft/a)	156.4	179.7	205.9	215.3	175.3	166.1
Live Total Volume (cu.ft/a)	3578	4471	4801	6023	4191	3710
Crown Competition Factor	205	234	259	242	212	197
Relative Density Index	53.1	60.4	71.9	67.9	56.2	53.2
Mean Diameter (in)	8.7	8.9	8.2	10.1	9.7	9.8
Dead Trees per Acre	40	0	10	10	10	0
Dead Basal Area (sq.ft/a)	11.8	0.0	3.6	4.9	2.5	0.0
Dead Total Volume (cu.ft/a)	254	0	83	114	49	0

6 Years After Treatment (1988)

Live Trees per Acre	380	420	530	380	340	310
Live Basal Area (sq.ft/a)	172.3	195.6	214.8	214.4	191.5	181.7
Live Total Volume (cu.ft/a)	4120	5035	5188	5789	4745	4224
Crown Competition Factor	224	250	267	246	227	208
Relative Density Index	57.1	64.4	73.2	67.2	60.1	56.4
Mean Diameter (in)	9.1	9.2	8.6	10.2	10.2	10.4
Dead Trees per Acre	40	0	40	20	10	10
Dead Basal Area (sq.ft/a)	11.8	0.0	13.8	23.4	2.5	2.9
Dead Total Volume (cu.ft/a)	254	0	302	936	49	66

8 Years After Treatment (1990)

Live Trees per Acre	380	420	530	380	330	310
Live Basal Area (sq.ft/a)	192.4	215.6	233.3	231.6	202.8	201.8
Live Total Volume (cu.ft/a)	4807	5764	5820	6403	5215	4895
Crown Competition Factor	243	268	287	259	235	226
Relative Density Index	62.0	69.2	77.8	71.2	62.2	61.1
Mean Diameter (in)	9.6	9.7	9.0	10.6	10.6	10.9
Dead Trees per Acre	40	0	40	20	20	10
Dead Basal Area (sq.ft/a)	11.8	0.0	13.8	23.4	6.9	2.9
Dead Total Volume (cu.ft/a)	254	0	302	936	148	66

10 Years After Treatment (1992)

Live Trees per Acre	380	420	530	380	310	310
Live Basal Area (sq.ft/a)	212.5	232.5	250.1	249.6	208.3	219.3
Crown Competition Factor	262	283	308	277	236	241
Relative Density Index	66.8	73.3	82.0	75.3	62.5	65.0
Mean Diameter (in)	10.1	10.1	9.3	11.0	11.1	11.4
Dead Trees per Acre	40	0	40	20	40	10
Dead Basal Area (sq.ft/a)	11.8	0.0	13.8	23.4	16.3	2.9
Dead Total Volume (cu.ft/a)	254	0	302	936	366	66

Plot Summary Report

Installation 274 CAREYWOOD CREEK
 Region: Northern Idaho Ownership: IDL
 Legal Description: T54N R2W Section 16 Meridian: Boise

Plot Number	1	2	3	4	5	6
Initial Treatment (1982)	200#N	0#N	400#N	200#N	400#N	0#N
Second Treatment (1988)	None	N+K	N+K	N+K	None	None

MENSURATIONAL CHARACTERISTICS:

 At Time of Treatment (1982) Stand Age = 60

Live Trees per Acre	120	130	160	190	220	190
Live Basal Area (sq.ft/a)	141.3	121.2	142.6	127.6	131.8	137.4
Live Total Volume (cu.ft/a)	4196	3723	4182	3685	3620	3918
Crown Competition Factor	134	122	144	141	147	149
Relative Density Index	36.9	33.5	39.9	38.3	40.7	40.5
Mean Diameter (in)	14.7	13.1	12.8	11.1	10.5	11.5
Average Crown Ratio (%)	50.0	40.0	49.0	40.0	39.0	39.0
Site Height (feet)	85.1	93.5	86.6	83.6	78.7	79.7
Species Composition (% of BA)						
Douglas-fir	100.0	89.2	100.0	94.4	97.5	97.5
Grand Fir	0.0	0.0	0.0	2.4	0.0	0.0
Western Larch	0.0	10.8	0.0	3.2	0.0	2.5
Lodgepole Pine	0.0	0.0	0.0	0.0	2.6	0.0

2 Years After Treatment (1984)

Live Trees per Acre	120	130	150	190	220	190
Live Basal Area (sq.ft/a)	152.0	126.3	133.8	140.7	143.5	147.6
Crown Competition Factor	142	126	135	152	156	156
Relative Density Index	38.9	34.6	37.4	41.2	43.4	42.7
Mean Diameter (in)	15.2	13.4	12.8	11.7	10.9	11.9
Dead Trees per Acre	0	0	10	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	19.6	0.0	0.0	0.0

4 Years After Treatment (1986)

Live Trees per Acre	120	130	140	190	210	190
Live Basal Area (sq.ft/a)	161.0	130.8	139.9	151.1	151.7	156.1
Live Total Volume (cu.ft/a)	5003	4119	4258	4483	4368	4595
Crown Competition Factor	148	129	137	161	163	163
Relative Density Index	40.6	35.5	38.0	43.5	44.7	44.6
Mean Diameter (in)	15.7	13.6	13.5	12.1	11.5	12.3
Dead Trees per Acre	0	0	20	0	10	0
Dead Basal Area (sq.ft/a)	0.0	0.0	22.0	0.0	1.5	0.0
Dead Total Volume (cu.ft/a)	0	0	694	0	44	0

6 Years After Treatment (1988)

Live Trees per Acre	120	130	140	190	210	190
Live Basal Area (sq.ft/a)	167.8	134.8	147.5	158.4	160.4	162.9
Live Total Volume (cu.ft/a)	5320	4306	4585	4770	4605	4896
Crown Competition Factor	152	132	143	167	169	168
Relative Density Index	41.9	36.3	39.6	45.0	46.6	46.0
Mean Diameter (in)	16.0	13.8	13.9	12.4	11.8	12.5
Dead Trees per Acre	0	0	20	0	10	0
Dead Basal Area (sq.ft/a)	0.0	0.0	22.0	0.0	1.5	0.0
Dead Total Volume (cu.ft/a)	0	0	694	0	44	0

8 Years After Treatment (1990)

Live Trees per Acre	120	120	140	190	200	180
Live Basal Area (sq.ft/a)	175.6	129.8	155.6	166.7	166.8	166.7
Live Total Volume (cu.ft/a)	5691	4241	4945	5118	5005	5120
Crown Competition Factor	157	125	148	173	172	169
Relative Density Index	43.4	34.6	41.2	46.8	47.4	46.2
Mean Diameter (in)	16.4	14.1	14.3	12.7	12.4	13.0
Dead Trees per Acre	0	10	20	0	20	10
Dead Basal Area (sq.ft/a)	0.0	10.1	22.0	0.0	3.1	3.2
Dead Total Volume (cu.ft/a)	0	302	694	0	83	73

10 Years After Treatment (1992)

Live Trees per Acre	120	120	140	190	200	180
Live Basal Area (sq.ft/a)	183.9	135.8	164.8	177.9	176.3	174.7
Crown Competition Factor	163	129	154	181	179	175
Relative Density Index	44.9	35.8	43.0	49.2	49.4	47.8
Mean Diameter (in)	16.8	14.4	14.7	13.1	12.7	13.3
Dead Trees per Acre	0	10	20	0	20	10
Dead Basal Area (sq.ft/a)	0.0	10.1	22.0	0.0	3.1	3.2
Dead Total Volume (cu.ft/a)	0	302	694	0	83	73

Plot Summary Report

Installation 275 SMITH LAKE

Region: Northern Idaho

Ownership: IDL

Legal Description: T63N R1E Section 36 Meridian: Boise

Plot Number	1	2	3	4	5	6
Initial Treatment (1982)	400#N	200#N	0#N	200#N	400#N	0#N
Second Treatment (1988)	None	200#N	N+K	N+K	N+K	None

MENSURATIONAL CHARACTERISTICS:

At Time of Treatment (1982) Stand Age = 75

Live Trees per Acre	290	380	310	290	340	320
Live Basal Area (sq.ft/a)	161.3	203.9	198.1	170.8	146.2	158.1
Live Total Volume (cu.ft/a)	4197	5553	5620	4880	3536	3883
Crown Competition Factor	178	230	218	193	176	182
Relative Density Index	50.8	64.8	60.2	53.0	49.1	51.3
Mean Diameter (in)	10.1	9.9	10.8	10.4	8.9	9.5
Average Crown Ratio (%)	48.0	42.0	41.0	40.0	44.0	45.0
Site Height (feet)	80.4	80.7	85.7	81.1	71.6	67.0
Species Composition (% of BA)						
Douglas-fir	93.3	100.0	100.0	96.7	100.0	88.8
Western Larch	0.6	0.0	0.0	2.1	0.0	0.0
Ponderosa Pine	6.1	0.0	0.0	1.2	0.0	11.2

2 Years After Treatment (1984)

Live Trees per Acre	290	380	310	290	340	320
Live Basal Area (sq.ft/a)	174.0	214.7	208.1	181.5	157.4	166.8
Crown Competition Factor	190	240	227	201	188	189
Relative Density Index	53.7	67.3	62.5	55.5	51.9	53.4
Mean Diameter (in)	10.5	10.2	11.1	10.7	9.2	9.8
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0

4 Years After Treatment (1986)

Live Trees per Acre	290	380	310	290	340	320
Live Basal Area (sq.ft/a)	185.8	224.5	217.4	191.3	169.8	174.8
Live Total Volume (cu.ft/a)	5093	6348	6353	5686	4332	4463
Crown Competition Factor	199	249	234	211	199	197
Relative Density Index	56.4	69.6	64.6	57.7	54.9	55.3
Mean Diameter (in)	10.8	10.4	11.3	11.0	9.6	10.0
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	1	0	0	1	0

6 Years After Treatment (1988)

Live Trees per Acre	290	380	310	290	340	320
Live Basal Area (sq.ft/a)	194.2	229.9	223.3	196.8	178.1	179.6
Live Total Volume (cu.ft/a)	5444	6619	6646	5963	4635	4671
Crown Competition Factor	205	253	239	216	206	201
Relative Density Index	58.4	70.8	65.9	58.9	56.9	56.4
Mean Diameter (in)	11.1	10.5	11.5	11.2	9.8	10.1
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	1	0	0	1	0

8 Years After Treatment (1990)

Live Trees per Acre	290	380	300	290	340	320
Live Basal Area (sq.ft/a)	205.1	237.9	227.4	204.3	187.7	185.7
Live Total Volume (cu.ft/a)	5859	6977	6925	6307	4978	4902
Crown Competition Factor	213	259	239	223	214	206
Relative Density Index	60.8	72.7	66.2	60.6	59.2	57.8
Mean Diameter (in)	11.4	10.7	11.8	11.4	10.1	10.3
Dead Trees per Acre	0	0	10	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	5.6	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	2	154	0	0	0

10 Years After Treatment (1992)

Live Trees per Acre	290	380	290	290	310	320
Live Basal Area (sq.ft/a)	214.4	246.2	216.9	211.9	184.3	192.3
Crown Competition Factor	220	267	230	229	208	212
Relative Density Index	62.8	74.6	63.4	62.3	57.0	59.4
Mean Diameter (in)	11.6	10.9	11.7	11.6	10.4	10.5
Dead Trees per Acre	0	0	20	0	30	0
Dead Basal Area (sq.ft/a)	0.0	0.0	24.9	0.0	12.1	0.0
Dead Total Volume (cu.ft/a)	0	2	765	0	304	0

Plot Summary Report

Installation 276 MILL CREEK
 Region: Central Idaho Ownership: Boise Cascade
 Legal Description: T19N R1E Section 34 Meridian: Boise

Plot Number	1	2	3	4	5	6
Initial Treatment (1982)	400#N	200#N	0#N	0#N	200#N	400#N
Second Treatment (1988)	None	None	None	N+K	200#N	200#N

MENSURATIONAL CHARACTERISTICS:

At Time of Treatment (1982)	Stand Age = 61					
Live Trees per Acre	250	300	250	200	210	230
Live Basal Area (sq.ft/a)	151.7	164.9	145.0	152.8	139.0	135.4
Live Total Volume (cu.ft/a)	3431	3830	3268	3689	3526	3428
Crown Competition Factor	171	182	162	156	142	153
Relative Density Index	46.7	52.0	45.2	44.4	41.9	42.0
Mean Diameter (in)	10.6	10.0	10.3	11.8	11.0	10.4
Average Crown Ratio (%)	49.0	45.0	49.0	59.0	50.0	55.0
Site Height (feet)	62.2	67.5	63.4	70.9	71.1	74.5
Species Composition (% of BA)						
Douglas-fir	93.9	83.0	91.8	85.0	76.0	86.9
Ponderosa Pine	6.1	17.0	8.2	15.0	24.0	13.1

2 Years After Treatment (1984)						
Live Trees per Acre	250	300	250	200	210	230
Live Basal Area (sq.ft/a)	160.0	173.5	151.8	162.4	147.5	147.7
Crown Competition Factor	179	190	168	164	150	163
Relative Density Index	48.6	54.1	46.7	46.5	43.8	44.9
Mean Diameter (in)	10.8	10.3	10.6	12.2	11.4	10.9
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0

4 Years After Treatment (1986)						
Live Trees per Acre	250	300	250	200	210	230
Live Basal Area (sq.ft/a)	170.4	184.0	160.4	173.3	157.0	160.3
Live Total Volume (cu.ft/a)	4080	4580	3828	4419	4249	4293
Crown Competition Factor	189	198	175	173	157	174
Relative Density Index	51.0	56.5	48.7	48.8	45.9	47.7
Mean Diameter (in)	11.2	10.6	10.9	12.6	11.7	11.3
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	3	0	0	0	0	0

6 Years After Treatment (1988)						
Live Trees per Acre	250	250	250	200	200	230
Live Basal Area (sq.ft/a)	177.0	170.2	167.4	181.6	159.8	170.2
Live Total Volume (cu.ft/a)	4344	4358	4103	4782	4429	4692
Crown Competition Factor	193	186	183	179	159	182
Relative Density Index	52.4	50.9	50.3	50.6	45.9	49.9
Mean Diameter (in)	11.4	11.2	11.1	12.9	12.1	11.7
Dead Trees per Acre	0	50	0	0	10	0
Dead Basal Area (sq.ft/a)	0.0	18.0	0.0	0.0	4.0	0.0
Dead Total Volume (cu.ft/a)	3	435	0	0	80	0

8 Years After Treatment (1990)						
Live Trees per Acre	230	230	250	200	190	230
Live Basal Area (sq.ft/a)	174.3	163.8	175.2	192.6	156.4	180.9
Live Total Volume (cu.ft/a)	4427	4296	4425	5243	4429	5113
Crown Competition Factor	193	182	190	187	157	191
Relative Density Index	50.8	48.5	52.0	52.8	44.6	52.2
Mean Diameter (in)	11.8	11.4	11.3	13.3	12.3	12.0
Dead Trees per Acre	20	70	0	0	20	0
Dead Basal Area (sq.ft/a)	11.4	32.1	0.0	0.0	15.4	0.0
Dead Total Volume (cu.ft/a)	237	795	0	0	426	0

10 Years After Treatment (1992)						
Live Trees per Acre	230	230	250	200	170	230
Live Basal Area (sq.ft/a)	181.1	169.9	182.1	200.1	152.6	188.9
Crown Competition Factor	198	188	195	194	153	196
Relative Density Index	52.3	49.8	53.6	54.4	42.6	53.9
Mean Diameter (in)	12.0	11.6	11.6	13.5	12.8	12.3
Dead Trees per Acre	20	70	0	0	40	0
Dead Basal Area (sq.ft/a)	11.4	32.1	0.0	0.0	25.7	0.0
Dead Total Volume (cu.ft/a)	237	795	0	0	736	0

Plot Summary Report

Installation 277 LITTLE MUD CREEK #2
 Region: Central Idaho Ownership: Boise Cascade
 Legal Description: T20N R1E Section 34 Meridian: Boise

Plot Number	1	2	3	4	5	6
Initial Treatment (1982)	200#N	400#N	0#N	0#N	400#N	200#N
Second Treatment (1988)	None	N+K	None	N+K	None	N+K

MENSURATIONAL CHARACTERISTICS:

At Time of Treatment (1982) Stand Age = 63

Live Trees per Acre	290	260	300	200	210	160
Live Basal Area (sq.ft/a)	181.7	158.3	181.4	107.4	113.2	91.7
Live Total Volume (cu.ft/a)	4532	3868	4551	2137	2483	1830
Crown Competition Factor	194	171	201	115	127	101
Relative Density Index	55.5	48.7	55.9	34.1	35.9	28.6
Mean Diameter (in)	10.7	10.6	10.5	9.9	9.9	10.3
Average Crown Ratio (%)	50.0	57.0	48.0	59.0	61.0	71.0
Site Height (feet)	69.7	65.9	71.2	52.8	62.8	57.7
Species Composition (% of BA)						
Douglas-fir	70.3	76.1	83.1	65.9	80.3	90.0
Ponderosa Pine	29.7	23.9	16.9	34.1	19.7	10.0

2 Years After Treatment (1984)

Live Trees per Acre	290	260	300	200	210	160
Live Basal Area (sq.ft/a)	194.7	170.0	193.8	118.3	123.9	104.3
Crown Competition Factor	205	180	213	125	139	114
Relative Density Index	58.5	51.4	58.7	36.7	38.4	31.5
Mean Diameter (in)	11.1	11.0	10.9	10.4	10.4	10.9
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0

4 Years After Treatment (1986)

Live Trees per Acre	290	260	300	200	210	160
Live Basal Area (sq.ft/a)	210.4	182.1	207.7	129.7	135.2	116.1
Live Total Volume (cu.ft/a)	5598	4740	5543	2824	3154	2473
Crown Competition Factor	218	192	225	136	149	125
Relative Density Index	62.0	54.1	61.9	39.3	41.0	34.2
Mean Diameter (in)	11.5	11.3	11.3	10.9	10.9	11.5
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	0	0

6 Years After Treatment (1988)

Live Trees per Acre	290	260	300	200	200	160
Live Basal Area (sq.ft/a)	219.8	190.0	217.2	138.8	140.0	125.0
Live Total Volume (cu.ft/a)	6020	5095	5951	3114	3340	2750
Crown Competition Factor	225	199	232	144	153	134
Relative Density Index	64.0	55.9	64.0	41.3	41.6	36.1
Mean Diameter (in)	11.8	11.6	11.5	11.3	11.3	12.0
Dead Trees per Acre	0	0	0	0	10	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	2.7	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	67	0

8 Years After Treatment (1990)

Live Trees per Acre	290	260	300	180	180	160
Live Basal Area (sq.ft/a)	232.2	200.8	229.1	135.9	135.0	137.0
Live Total Volume (cu.ft/a)	6537	5514	6440	3106	3215	3105
Crown Competition Factor	235	208	241	143	148	143
Relative Density Index	66.7	58.2	66.6	39.6	39.4	38.7
Mean Diameter (in)	12.1	11.9	11.8	11.8	11.7	12.5
Dead Trees per Acre	0	0	0	20	30	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	14.8	17.4	0.0
Dead Total Volume (cu.ft/a)	0	0	0	353	475	0

10 Years After Treatment (1992)

Live Trees per Acre	290	260	300	180	180	160
Live Basal Area (sq.ft/a)	242.2	209.3	238.7	145.4	142.4	146.0
Crown Competition Factor	242	214	248	150	153	149
Relative Density Index	68.8	60.1	68.7	41.7	41.0	40.6
Mean Diameter (in)	12.4	12.2	12.1	12.2	12.0	12.9
Dead Trees per Acre	0	0	0	20	30	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	14.8	17.4	0.0
Dead Total Volume (cu.ft/a)	0	0	0	353	475	0

Plot Summary Report

Installation 278 WET GULCH
 Region: Central Idaho
 Legal Description: T7N R5E Section 19

Ownership: Boise Cascade
 Meridian: Boise

Plot Number	1	2	3	4	5	6
Initial Treatment (1982)	400#N	0#N	200#N	0#N	200#N	400#N
Second Treatment (1988)	None	N+K	N+K	None	200#N	N+K

MENSURATIONAL CHARACTERISTICS:

At Time of Treatment (1982)	Stand Age = 92					
Live Trees per Acre	180	170	140	190	200	210
Live Basal Area (sq.ft/a)	93.2	92.1	83.3	103.1	119.6	126.2
Live Total Volume (cu.ft/a)	2211	2308	2043	2939	3172	3499
Crown Competition Factor	106	97	91	117	133	143
Relative Density Index	29.8	29.2	25.8	32.7	37.0	38.9
Mean Diameter (in)	9.7	10.0	10.4	10.0	10.5	10.5
Average Crown Ratio (%)	50.0	42.0	50.0	38.0	46.0	40.0
Site Height (feet)	74.1	70.0	70.8	81.6	78.9	82.9
Species Composition (% of BA)						
Douglas-fir	96.3	74.5	81.9	90.0	100.0	96.3
Ponderosa Pine	3.7	25.5	18.1	10.0	0.0	3.7
2 Years After Treatment (1984)						
Live Trees per Acre	180	170	140	190	200	210
Live Basal Area (sq.ft/a)	103.3	99.0	91.2	111.0	130.3	137.3
Crown Competition Factor	115	103	97	124	142	152
Relative Density Index	32.3	30.8	27.6	34.5	39.4	41.5
Mean Diameter (in)	10.3	10.3	10.9	10.4	10.9	11.0
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
4 Years After Treatment (1986)						
Live Trees per Acre	180	170	140	190	200	200
Live Basal Area (sq.ft/a)	112.8	106.7	98.7	119.3	141.5	142.3
Live Total Volume (cu.ft/a)	2806	2761	2508	3476	3865	4075
Crown Competition Factor	124	110	104	130	152	154
Relative Density Index	34.5	32.6	29.3	36.4	41.9	42.1
Mean Diameter (in)	10.7	10.7	11.4	10.7	11.4	11.4
Dead Trees per Acre	0	0	0	0	0	10
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	4.9
Dead Total Volume (cu.ft/a)	0	0	0	2	0	143
6 Years After Treatment (1988)						
Live Trees per Acre	180	170	140	180	200	200
Live Basal Area (sq.ft/a)	119.2	111.2	102.6	119.9	148.5	149.3
Live Total Volume (cu.ft/a)	3029	2941	2673	3530	4120	4359
Crown Competition Factor	132	113	108	130	159	159
Relative Density Index	35.9	33.6	30.1	36.1	43.5	43.7
Mean Diameter (in)	11.0	11.0	11.6	11.1	11.7	11.7
Dead Trees per Acre	0	0	0	10	0	10
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	5.0	0.0	4.9
Dead Total Volume (cu.ft/a)	1	0	0	165	0	143
8 Years After Treatment (1990)						
Live Trees per Acre	180	170	130	180	200	200
Live Basal Area (sq.ft/a)	125.3	117.5	102.8	125.2	156.0	156.6
Live Total Volume (cu.ft/a)	3237	3166	2729	3738	4372	4650
Crown Competition Factor	136	119	106	134	167	166
Relative Density Index	37.3	35.0	29.6	37.3	45.1	45.2
Mean Diameter (in)	11.3	11.3	12.0	11.3	12.0	12.0
Dead Trees per Acre	0	0	10	10	0	10
Dead Basal Area (sq.ft/a)	0.0	0.0	4.0	5.0	0.0	4.9
Dead Total Volume (cu.ft/a)	1	0	85	165	3	143
10 Years After Treatment (1992)						
Live Trees per Acre	180	170	120	170	200	200
Live Basal Area (sq.ft/a)	130.7	123.1	94.4	129.5	161.8	162.1
Crown Competition Factor	141	123	98	136	172	170
Relative Density Index	38.5	36.3	27.2	37.7	46.4	46.4
Mean Diameter (in)	11.5	11.5	12.0	11.8	12.2	12.2
Dead Trees per Acre	0	0	20	20	0	10
Dead Basal Area (sq.ft/a)	0.0	0.0	15.8	6.3	0.0	4.9
Dead Total Volume (cu.ft/a)	1	0	387	189	3	143

Plot Summary Report

Installation 279 HENRY CREEK
 Region: Central Idaho Ownership: Boise Cascade
 Legal Description: T7N R5E Section 28 Meridian: Boise

Plot Number	1	2	3	4	5	6
Initial Treatment (1982)	0#N	200#N	400#N	400#N	0#N	200#N
Second Treatment (1988)	N+K	None	200#N	None	None	200#N

MENSURATIONAL CHARACTERISTICS:

At Time of Treatment (1982) Stand Age = 79

Live Trees per Acre	180	150	230	270	210	240
Live Basal Area (sq.ft/a)	129.4	122.6	118.6	181.8	156.4	154.6
Live Total Volume (cu.ft/a)	3470	3585	2836	5385	4458	4391
Crown Competition Factor	137	125	129	187	161	164
Relative Density Index	38.2	35.0	38.0	54.6	45.8	46.9
Mean Diameter (in)	11.5	12.2	9.7	11.1	11.7	10.9
Average Crown Ratio (%)	51.0	46.0	49.0	44.0	44.0	43.0
Site Height (feet)	75.5	82.4	66.1	86.5	80.2	80.0
Species Composition (% of BA)						
Douglas-fir	94.4	94.8	72.0	68.0	74.9	82.9
Ponderosa Pine	5.6	5.2	28.0	32.0	25.1	17.1

2 Years After Treatment (1984)

Live Trees per Acre	180	150	230	270	210	230
Live Basal Area (sq.ft/a)	140.1	133.1	131.1	191.4	165.0	161.3
Crown Competition Factor	145	135	140	194	168	167
Relative Density Index	40.5	37.3	41.0	56.7	47.6	47.9
Mean Diameter (in)	12.0	12.8	10.2	11.4	12.0	11.3
Dead Trees per Acre	0	0	0	0	0	10
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	4.1

4 Years After Treatment (1986)

Live Trees per Acre	180	150	230	270	210	230
Live Basal Area (sq.ft/a)	150.3	142.4	143.6	201.3	173.4	172.4
Live Total Volume (cu.ft/a)	4201	4287	3659	6208	5135	5149
Crown Competition Factor	153	142	150	203	174	176
Relative Density Index	42.7	39.2	43.9	58.9	49.4	50.4
Mean Diameter (in)	12.4	13.2	10.7	11.7	12.3	11.7
Dead Trees per Acre	0	0	0	0	0	10
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	4.1
Dead Total Volume (cu.ft/a)	0	0	0	0	0	103

6 Years After Treatment (1988)

Live Trees per Acre	180	150	220	260	210	220
Live Basal Area (sq.ft/a)	156.3	147.9	149.3	200.1	179.7	172.7
Live Total Volume (cu.ft/a)	4462	4532	3913	6294	5431	5301
Crown Competition Factor	157	146	154	198	178	176
Relative Density Index	44.0	40.3	44.7	58.1	50.8	49.9
Mean Diameter (in)	12.6	13.5	11.2	11.9	12.5	12.0
Dead Trees per Acre	0	0	10	10	0	20
Dead Basal Area (sq.ft/a)	0.0	0.0	3.0	7.9	0.0	9.5
Dead Total Volume (cu.ft/a)	0	0	73	238	0	239

8 Years After Treatment (1990)

Live Trees per Acre	170	150	190	260	210	200
Live Basal Area (sq.ft/a)	161.0	153.3	145.0	205.5	185.4	171.7
Live Total Volume (cu.ft/a)	4711	4760	3898	6566	5717	5423
Crown Competition Factor	159	149	150	202	183	173
Relative Density Index	44.4	41.4	42.2	59.2	52.0	48.5
Mean Diameter (in)	13.2	13.7	11.8	12.0	12.7	12.6
Dead Trees per Acre	10	0	40	10	0	40
Dead Basal Area (sq.ft/a)	3.4	0.0	15.7	7.9	0.0	17.4
Dead Total Volume (cu.ft/a)	86	0	410	238	0	447

10 Years After Treatment (1992)

Live Trees per Acre	170	150	190	250	210	200
Live Basal Area (sq.ft/a)	166.2	158.6	151.5	205.4	189.9	175.9
Crown Competition Factor	163	153	155	200	186	176
Relative Density Index	45.4	42.5	43.6	58.6	52.9	49.4
Mean Diameter (in)	13.4	13.9	12.1	12.3	12.9	12.7
Dead Trees per Acre	10	0	40	20	0	40
Dead Basal Area (sq.ft/a)	3.4	0.0	15.7	12.1	0.0	17.4
Dead Total Volume (cu.ft/a)	86	0	410	351	0	447

Plot Summary Report

Installation 280 SMITH CREEK
 Region: Central Idaho Ownership: IDL
 Legal Description: T7N R5E Section 2 Meridian: Boise

Plot Number	1	2	3	4	5	6
Initial Treatment (1982)	0#N	200#N	400#N	200#N	400#N	0#N
Second Treatment (1988)	N+K	None	None	N+K	N+K	None

MENSURATIONAL CHARACTERISTICS:

At Time of Treatment (1982) Stand Age = 65

Live Trees per Acre	190	170	240	240	320	230
Live Basal Area (sq.ft/a)	109.7	105.8	137.7	112.5	140.5	164.4
Live Total Volume (cu.ft/a)	2668	2435	3266	2662	3485	4558
Crown Competition Factor	122	114	150	124	149	170
Relative Density Index	34.2	32.4	43.0	37.0	46.9	48.6
Mean Diameter (in)	10.3	10.7	10.3	9.3	9.0	11.5
Average Crown Ratio (%)	48.0	54.0	50.0	49.0	47.0	49.0
Site Height (feet)	65.0	66.1	64.0	66.7	68.0	75.7
Species Composition (% of BA)						
Douglas-fir	76.3	83.4	77.6	72.2	59.1	70.6
Ponderosa Pine	23.7	16.6	22.4	27.8	40.9	29.4

2 Years After Treatment (1984)

Live Trees per Acre	190	170	240	240	320	230
Live Basal Area (sq.ft/a)	120.6	118.7	152.1	125.9	154.5	173.8
Crown Competition Factor	131	125	162	139	165	178
Relative Density Index	36.7	35.3	46.3	40.2	50.4	50.7
Mean Diameter (in)	10.8	11.3	10.8	9.8	9.4	11.8
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0

4 Years After Treatment (1986)

Live Trees per Acre	180	170	240	240	320	230
Live Basal Area (sq.ft/a)	117.4	130.7	164.1	137.6	168.0	184.4
Live Total Volume (cu.ft/a)	2837	3152	4093	3443	4447	5329
Crown Competition Factor	131	134	172	148	175	186
Relative Density Index	35.5	37.9	49.0	43.0	53.6	53.0
Mean Diameter (in)	10.9	11.9	11.2	10.3	9.8	12.1
Dead Trees per Acre	10	0	0	0	0	0
Dead Basal Area (sq.ft/a)	12.2	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	383	0	1	0	0	0

6 Years After Treatment (1988)

Live Trees per Acre	180	170	230	240	310	230
Live Basal Area (sq.ft/a)	122.6	137.0	165.5	144.8	174.6	189.8
Live Total Volume (cu.ft/a)	3028	3371	4210	3706	4745	5574
Crown Competition Factor	134	139	173	154	180	190
Relative Density Index	36.7	39.3	48.8	44.6	54.8	54.1
Mean Diameter (in)	11.2	12.2	11.5	10.5	10.2	12.3
Dead Trees per Acre	10	0	10	0	10	0
Dead Basal Area (sq.ft/a)	12.2	0.0	3.3	0.0	1.5	0.0
Dead Total Volume (cu.ft/a)	383	0	89	0	19	0

8 Years After Treatment (1990)

Live Trees per Acre	180	170	230	230	290	230
Live Basal Area (sq.ft/a)	130.2	144.9	171.8	149.6	172.6	194.8
Live Total Volume (cu.ft/a)	3280	3635	4460	3913	4768	5817
Crown Competition Factor	141	146	177	158	177	194
Relative Density Index	38.4	41.0	50.2	45.3	53.4	55.2
Mean Diameter (in)	11.5	12.5	11.7	10.9	10.5	12.5
Dead Trees per Acre	10	0	10	10	30	0
Dead Basal Area (sq.ft/a)	12.2	0.0	3.3	4.1	12.4	0.0
Dead Total Volume (cu.ft/a)	383	0	89	100	339	0

10 Years After Treatment (1992)

Live Trees per Acre	180	170	230	230	290	230
Live Basal Area (sq.ft/a)	135.2	149.7	175.5	155.2	179.6	199.9
Crown Competition Factor	144	150	180	162	182	197
Relative Density Index	39.5	42.0	51.0	46.5	55.0	56.3
Mean Diameter (in)	11.7	12.7	11.8	11.1	10.7	12.6
Dead Trees per Acre	10	0	10	10	30	0
Dead Basal Area (sq.ft/a)	12.2	0.0	3.3	4.1	12.4	0.0
Dead Total Volume (cu.ft/a)	383	0	89	100	339	0

Plot Summary Report

Installation 281 O'NEIL HILL
 Region: Northern Idaho Ownership: Potlatch
 Legal Description: T46N R1E Section 32 Meridian: Boise

Plot Number	1	2	3	4	5	6
Initial Treatment (1982)	0#N	200#N	400#N	200#N	400#N	0#N
Second Treatment (1988)	None	N+K	N+K	None	None	N+K

MENSURATIONAL CHARACTERISTICS:

 At Time of Treatment (1982) Stand Age = 44

Live Trees per Acre	470	400	320	560	510	610
Live Basal Area (sq.ft/a)	207.9	183.2	193.5	223.9	228.2	206.8
Live Total Volume (cu.ft/a)	5532	4467	4961	5857	5893	5133
Crown Competition Factor	246	212	208	276	273	252
Relative Density Index	69.3	60.5	59.6	76.5	75.8	73.7
Mean Diameter (in)	9.0	9.2	10.5	8.6	9.1	7.9
Average Crown Ratio (%)	40.0	40.0	43.0	32.0	33.0	32.0
Site Height (feet)	78.7	67.5	74.9	75.2	77.2	73.3
Species Composition (% of BA)						
Douglas-fir	82.8	91.2	97.0	100.0	89.6	85.8
Grand Fir	10.2	4.9	3.0	0.0	4.5	2.1
Western Redcedar	3.3	1.0	0.0	0.0	0.0	0.0
Western Hemlock	0.0	0.0	0.0	0.0	2.0	0.0
Western Larch	0.0	0.0	0.0	0.0	3.9	12.2
Lodgepole Pine	3.7	2.9	0.0	0.0	0.0	0.0

2 Years After Treatment (1984)

Live Trees per Acre	470	400	320	550	500	600
Live Basal Area (sq.ft/a)	218.5	195.2	205.7	234.8	238.7	216.2
Crown Competition Factor	256	221	217	284	283	259
Relative Density Index	71.9	63.5	62.4	78.9	78.0	75.8
Mean Diameter (in)	9.2	9.5	10.9	8.9	9.4	8.1
Dead Trees per Acre	0	0	0	10	10	10
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	1.0	1.0	1.1

4 Years After Treatment (1986)

Live Trees per Acre	470	400	310	500	420	580
Live Basal Area (sq.ft/a)	228.4	205.6	215.0	233.2	224.4	222.4
Live Total Volume (cu.ft/a)	6451	5357	5907	6471	6257	5889
Crown Competition Factor	267	230	224	279	260	264
Relative Density Index	74.4	66.0	64.0	76.7	71.3	76.8
Mean Diameter (in)	9.4	9.7	11.3	9.3	9.9	8.4
Dead Trees per Acre	0	0	10	60	90	30
Dead Basal Area (sq.ft/a)	0.0	0.0	2.2	12.8	26.7	4.1
Dead Total Volume (cu.ft/a)	3	0	51	307	594	82

6 Years After Treatment (1988)

Live Trees per Acre	470	390	310	500	400	580
Live Basal Area (sq.ft/a)	240.9	217.1	228.9	245.9	236.7	234.6
Live Total Volume (cu.ft/a)	6979	5848	6472	6999	6781	6396
Crown Competition Factor	281	238	234	291	270	277
Relative Density Index	77.4	68.3	67.1	79.8	73.3	80.0
Mean Diameter (in)	9.7	10.1	11.6	9.5	10.4	8.6
Dead Trees per Acre	0	10	10	60	110	30
Dead Basal Area (sq.ft/a)	0.0	1.2	2.2	12.8	29.4	4.1
Dead Total Volume (cu.ft/a)	3	19	51	307	642	82

8 Years After Treatment (1990)

Live Trees per Acre	470	370	300	470	400	530
Live Basal Area (sq.ft/a)	251.3	226.8	239.6	250.1	248.3	241.8
Live Total Volume (cu.ft/a)	7507	6326	7052	7373	7370	6897
Crown Competition Factor	290	243	240	292	280	280
Relative Density Index	79.9	69.7	68.9	79.6	76.0	79.9
Mean Diameter (in)	9.9	10.6	12.1	9.9	10.7	9.2
Dead Trees per Acre	0	30	20	90	110	80
Dead Basal Area (sq.ft/a)	0.0	3.4	4.3	19.4	29.4	9.3
Dead Total Volume (cu.ft/a)	0	63	86	457	642	175

10 Years After Treatment (1992)

Live Trees per Acre	440	370	300	460	380	470
Live Basal Area (sq.ft/a)	258.5	238.9	251.8	258.6	257.3	246.7
Crown Competition Factor	294	252	249	299	285	278
Relative Density Index	80.2	72.4	71.5	81.2	77.1	78.8
Mean Diameter (in)	10.4	10.9	12.4	10.2	11.1	9.8
Dead Trees per Acre	30	30	20	100	130	140
Dead Basal Area (sq.ft/a)	2.4	3.4	4.3	21.8	32.1	16.9
Dead Total Volume (cu.ft/a)	38	63	86	515	698	314

Plot Summary Report

Installation 282 COOK MTN
 Region: Central Washington Ownership: Washington DNR
 Legal Description: T33N R24E Section 15 Meridian: Willamette

Plot Number	1	2	3	4	5	6
Initial Treatment (1982)	400#N	200#N	0#N	200#N	0#N	400#N
Second Treatment (1988)	None	N+K	None	None	N+K	N+K

MENSURATIONAL CHARACTERISTICS:

 At Time of Treatment (1982) Stand Age = 69

Live Trees per Acre	250	310	310	270	320	420
Live Basal Area (sq.ft/a)	104.3	97.5	104.7	86.3	112.9	113.0
Live Total Volume (cu.ft/a)	2662	2297	2273	1879	2663	2280
Crown Competition Factor	125	120	129	108	136	142
Relative Density Index	35.3	35.4	37.3	31.2	39.8	42.7
Mean Diameter (in)	8.8	7.6	7.9	7.7	8.0	7.0
Average Crown Ratio (%)	51.0	46.0	50.0	58.0	43.0	44.0
Site Height (feet)	74.2	70.2	62.5	62.9	68.7	62.0
Species Composition (% of BA)						
Douglas-fir	91.8	86.7	93.5	90.8	86.1	81.3
Western Larch	2.5	6.6	0.0	5.4	7.7	18.8
Ponderosa Pine	5.7	6.8	6.5	3.8	6.3	0.0

2 Years After Treatment (1984)

Live Trees per Acre	250	310	310	270	320	420
Live Basal Area (sq.ft/a)	122.0	111.9	116.8	105.2	124.8	132.1
Crown Competition Factor	141	135	142	129	148	161
Relative Density Index	39.7	39.2	40.5	36.2	42.9	47.9
Mean Diameter (in)	9.5	8.1	8.3	8.5	8.5	7.6
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0

4 Years After Treatment (1986)

Live Trees per Acre	250	300	310	270	320	420
Live Basal Area (sq.ft/a)	131.9	118.1	123.6	116.0	132.3	142.0
Live Total Volume (cu.ft/a)	3553	2948	2799	2681	3234	3016
Crown Competition Factor	151	140	148	140	155	173
Relative Density Index	42.1	40.5	42.3	39.0	44.8	50.6
Mean Diameter (in)	9.8	8.5	8.6	8.9	8.7	7.9
Dead Trees per Acre	0	10	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	1.2	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	19	0	0	0	0

6 Years After Treatment (1988)

Live Trees per Acre	240	300	310	270	320	420
Live Basal Area (sq.ft/a)	136.4	124.2	130.8	125.2	139.2	150.2
Live Total Volume (cu.ft/a)	3755	3186	3022	2975	3486	3265
Crown Competition Factor	155	147	157	149	163	182
Relative Density Index	42.7	42.1	44.1	41.2	46.6	52.8
Mean Diameter (in)	10.2	8.7	8.8	9.2	8.9	8.1
Dead Trees per Acre	10	10	0	0	0	0
Dead Basal Area (sq.ft/a)	4.0	1.2	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	107	19	0	0	0	0

8 Years After Treatment (1990)

Live Trees per Acre	240	300	310	270	320	420
Live Basal Area (sq.ft/a)	143.6	130.6	136.6	132.9	148.1	156.9
Live Total Volume (cu.ft/a)	4017	3412	3210	3226	3788	3479
Crown Competition Factor	162	153	163	156	172	188
Relative Density Index	44.4	43.7	45.6	43.1	48.8	54.5
Mean Diameter (in)	10.5	8.9	9.0	9.5	9.2	8.3
Dead Trees per Acre	10	10	0	0	0	0
Dead Basal Area (sq.ft/a)	4.0	1.2	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	107	19	0	0	0	0

10 Years After Treatment (1992)

Live Trees per Acre	240	290	310	270	320	420
Live Basal Area (sq.ft/a)	151.1	136.1	144.2	141.0	156.7	162.7
Crown Competition Factor	169	158	171	164	180	195
Relative Density Index	46.1	44.7	47.5	45.1	50.9	56.0
Mean Diameter (in)	10.7	9.3	9.2	9.8	9.5	8.4
Dead Trees per Acre	10	20	0	0	0	0
Dead Basal Area (sq.ft/a)	4.0	2.4	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	107	39	0	0	0	0

Plot Summary Report

Installation 283 SUMMIT CREEK
 Region: Central Washington Ownership: Washington DNR
 Legal Description: T33N R24E Section 4 Meridian: Willamette

Plot Number	1	2	3	4	5	6
Initial Treatment (1982)	0#N	400#N	200#N	0#N	400#N	200#N
Second Treatment (1988)	N+K	None	200#N	None	N+K	N+K

MENSURATIONAL CHARACTERISTICS:

 At Time of Treatment (1982) Stand Age = 75

Live Trees per Acre	280	280	270	300	290	280
Live Basal Area (sq.ft/a)	98.2	90.3	100.5	105.8	94.5	95.9
Live Total Volume (cu.ft/a)	2151	1845	2304	2394	2014	2002
Crown Competition Factor	119	113	120	132	117	118
Relative Density Index	34.7	32.6	35.0	37.3	34.0	34.1
Mean Diameter (in)	8.0	7.7	8.3	8.0	7.7	7.9
Average Crown Ratio (%)	50.0	55.0	54.0	50.0	52.0	57.0
Site Height (feet)	61.0	60.7	61.1	60.2	61.0	60.7
Species Composition (% of BA)						
Douglas-fir	85.1	91.0	74.1	95.0	89.8	96.7
Western Larch	0.0	9.0	10.6	0.0	8.8	0.0
Lodgepole Pine	14.9	0.0	15.4	5.0	0.0	0.0
Ponderosa Pine	0.0	0.0	0.0	0.0	1.4	3.3

2 Years After Treatment (1984)

Live Trees per Acre	280	280	270	300	290	280
Live Basal Area (sq.ft/a)	109.0	112.3	116.8	117.4	114.5	113.2
Crown Competition Factor	130	135	137	145	139	136
Relative Density Index	37.5	38.3	39.1	40.3	39.3	38.6
Mean Diameter (in)	8.5	8.6	8.9	8.5	8.5	8.6
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0

4 Years After Treatment (1986)

Live Trees per Acre	280	280	270	300	290	280
Live Basal Area (sq.ft/a)	116.5	127.8	128.3	124.8	128.3	124.4
Live Total Volume (cu.ft/a)	2648	2808	3110	2936	2927	2712
Crown Competition Factor	137	152	147	152	152	148
Relative Density Index	39.4	42.3	42.0	42.2	42.7	41.4
Mean Diameter (in)	8.7	9.2	9.3	8.7	9.0	9.0
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	0	0

6 Years After Treatment (1988)

Live Trees per Acre	280	280	270	300	290	280
Live Basal Area (sq.ft/a)	123.2	139.8	136.9	131.7	137.7	133.2
Live Total Volume (cu.ft/a)	2852	3135	3402	3166	3209	2963
Crown Competition Factor	144	164	154	158	162	158
Relative Density Index	41.1	45.2	44.1	44.0	45.1	43.6
Mean Diameter (in)	9.0	9.6	9.6	9.0	9.3	9.3
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	0	0

8 Years After Treatment (1990)

Live Trees per Acre	280	280	270	300	280	280
Live Basal Area (sq.ft/a)	131.0	149.7	146.1	137.4	142.1	143.7
Live Total Volume (cu.ft/a)	3083	3412	3682	3339	3361	3245
Crown Competition Factor	151	174	161	166	164	169
Relative Density Index	43.1	47.6	46.3	45.4	45.8	46.1
Mean Diameter (in)	9.3	9.9	10.0	9.2	9.7	9.7
Dead Trees per Acre	0	0	0	0	10	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	4.8	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	108	0

10 Years After Treatment (1992)

Live Trees per Acre	280	280	270	300	270	280
Live Basal Area (sq.ft/a)	138.6	159.0	154.5	143.6	146.8	151.9
Crown Competition Factor	158	182	168	171	170	176
Relative Density Index	44.9	49.8	48.3	46.9	46.5	48.1
Mean Diameter (in)	9.5	10.2	10.2	9.4	10.0	10.0
Dead Trees per Acre	0	0	0	0	20	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	8.5	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	196	0

Plot Summary Report

Installation 284 N.F. VALLEY CREEK
 Region: Montana Ownership: Flathead (BIA)
 Legal Description: T17N R21W Section 22 Meridian: Principal

Plot Number	1	2	3	4	5	6
Initial Treatment (1982)	400#N	200#N	0#N	400#N	200#N	0#N
Second Treatment (1988)	200#N	200#N	N+K	N+K	None	None

MENSURATIONAL CHARACTERISTICS:

At Time of Treatment (1982) Stand Age = 75

Live Trees per Acre	140	150	150	170	140	180
Live Basal Area (sq.ft/a)	186.6	149.9	180.4	103.2	99.5	111.1
Live Total Volume (cu.ft/a)	5836	4448	5456	2360	2375	2379
Crown Competition Factor	175	147	168	119	107	127
Relative Density Index	47.2	40.7	46.8	31.8	29.4	34.1
Mean Diameter (in)	15.6	13.5	14.9	10.6	11.4	10.6
Average Crown Ratio (%)	39.0	39.0	44.0	42.0	42.0	48.0
Site Height (feet)	90.4	82.0	88.1	66.1	66.4	62.1
Species Composition (% of BA)						
Douglas-fir	100.0	93.5	97.7	100.0	96.0	100.0
Ponderosa Pine	0.0	6.5	2.3	0.0	4.0	0.0

2 Years After Treatment (1984)

Live Trees per Acre	140	150	150	170	140	180
Live Basal Area (sq.ft/a)	192.4	156.6	188.9	110.3	104.9	117.2
Crown Competition Factor	179	152	174	125	112	132
Relative Density Index	48.3	42.1	48.5	33.4	30.6	35.5
Mean Diameter (in)	15.9	13.8	15.2	10.9	11.7	10.9
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0

4 Years After Treatment (1986)

Live Trees per Acre	140	150	150	170	140	180
Live Basal Area (sq.ft/a)	198.3	162.1	194.7	115.7	109.4	122.2
Live Total Volume (cu.ft/a)	6316	4916	6011	2709	2688	2680
Crown Competition Factor	183	156	178	129	117	136
Relative Density Index	49.4	43.2	49.6	34.6	31.6	36.6
Mean Diameter (in)	16.1	14.1	15.4	11.2	12.0	11.2
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	0	0

6 Years After Treatment (1988)

Live Trees per Acre	140	150	150	170	140	180
Live Basal Area (sq.ft/a)	202.1	167.2	200.8	121.3	113.2	127.1
Live Total Volume (cu.ft/a)	6508	5123	6281	2884	2823	2830
Crown Competition Factor	185	159	183	134	119	140
Relative Density Index	50.1	44.2	50.7	35.9	32.4	37.7
Mean Diameter (in)	16.3	14.3	15.7	11.4	12.2	11.4
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	0	0

8 Years After Treatment (1990)

Live Trees per Acre	140	150	150	170	140	180
Live Basal Area (sq.ft/a)	207.2	172.6	208.2	127.1	117.7	132.5
Live Total Volume (cu.ft/a)	6756	5385	6635	3089	2998	3010
Crown Competition Factor	188	163	188	138	123	144
Relative Density Index	51.1	45.3	52.1	37.2	33.4	38.9
Mean Diameter (in)	16.5	14.5	16.0	11.7	12.4	11.6
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	0	0

10 Years After Treatment (1992)

Live Trees per Acre	140	150	150	150	140	180
Live Basal Area (sq.ft/a)	215.2	180.0	216.5	126.0	124.0	140.0
Crown Competition Factor	194	168	193	133	128	152
Relative Density Index	52.5	46.7	53.7	35.8	34.7	40.5
Mean Diameter (in)	16.8	14.8	16.3	12.4	12.7	11.9
Dead Trees per Acre	0	0	0	20	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	8.2	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	155	0	0

Plot Summary Report

Installation 285 S.F. VALLEY CREEK
 Region: Montana Ownership: Flathead (BIA)
 Legal Description: T16N R21W Section 2 Meridian: Principal

Plot Number	1	2	3	4	5	6
Initial Treatment (1982)	0#N	200#N	400#N	400#N	0#N	200#N
Second Treatment (1988)	None	None	None	200#N	N+K	200#N

MENSURATIONAL CHARACTERISTICS:

At Time of Treatment (1982) Stand Age = 72

Live Trees per Acre	180	180	150	120	140	160
Live Basal Area (sq.ft/a)	135.8	116.6	123.9	106.6	120.4	107.3
Live Total Volume (cu.ft/a)	3559	2725	3154	2666	2928	2546
Crown Competition Factor	147	126	130	113	130	124
Relative Density Index	39.6	35.3	35.3	29.8	34.0	32.2
Mean Diameter (in)	11.8	10.9	12.3	12.8	12.6	11.1
Average Crown Ratio (%)	40.0	44.0	43.0	54.0	43.0	47.0
Site Height (feet)	77.7	68.2	74.3	70.2	71.1	66.1
Species Composition (% of BA)						
Douglas-fir	100.0	90.5	100.0	100.0	100.0	100.0
Ponderosa Pine	0.0	9.5	0.0	0.0	0.0	0.0

2 Years After Treatment (1984)

Live Trees per Acre	180	180	150	120	140	160
Live Basal Area (sq.ft/a)	140.1	122.2	129.5	112.0	124.0	111.9
Crown Competition Factor	150	130	134	117	133	127
Relative Density Index	40.5	36.6	36.5	31.0	34.7	33.3
Mean Diameter (in)	12.0	11.2	12.6	13.1	12.7	11.3
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0

4 Years After Treatment (1986)

Live Trees per Acre	180	180	150	110	140	160
Live Basal Area (sq.ft/a)	145.2	128.5	136.0	109.6	128.7	116.9
Live Total Volume (cu.ft/a)	3898	3112	3550	2857	3208	2844
Crown Competition Factor	153	135	139	112	136	131
Relative Density Index	41.6	38.0	37.9	29.8	35.7	34.4
Mean Diameter (in)	12.2	11.4	12.9	13.5	13.0	11.6
Dead Trees per Acre	0	0	0	10	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	8.0	0.0	0.0
Dead Total Volume (cu.ft/a)	1	0	0	177	0	0

6 Years After Treatment (1988)

Live Trees per Acre	180	180	150	110	140	160
Live Basal Area (sq.ft/a)	149.8	132.7	140.5	114.9	132.1	120.2
Live Total Volume (cu.ft/a)	4083	3274	3737	3044	3342	2967
Crown Competition Factor	157	138	142	117	139	133
Relative Density Index	42.6	38.9	38.8	30.9	36.4	35.1
Mean Diameter (in)	12.4	11.6	13.1	13.8	13.2	11.7
Dead Trees per Acre	0	0	0	10	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	8.0	0.0	0.0
Dead Total Volume (cu.ft/a)	1	0	0	177	0	0

8 Years After Treatment (1990)

Live Trees per Acre	180	180	150	110	140	160
Live Basal Area (sq.ft/a)	155.0	137.6	146.4	119.8	136.5	124.3
Live Total Volume (cu.ft/a)	4283	3453	3956	3236	3519	3145
Crown Competition Factor	160	143	146	120	142	139
Relative Density Index	43.7	40.0	40.0	31.9	37.3	36.0
Mean Diameter (in)	12.6	11.8	13.4	14.1	13.4	11.9
Dead Trees per Acre	0	0	0	10	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	8.0	0.0	0.0
Dead Total Volume (cu.ft/a)	1	0	0	177	0	0

10 Years After Treatment (1992)

Live Trees per Acre	180	180	150	110	140	160
Live Basal Area (sq.ft/a)	161.5	143.2	152.3	125.6	141.4	129.4
Crown Competition Factor	165	147	151	124	145	143
Relative Density Index	45.1	41.2	41.2	33.0	38.3	37.1
Mean Diameter (in)	12.8	12.1	13.6	14.5	13.6	12.2
Dead Trees per Acre	0	0	0	10	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	8.0	0.0	0.0
Dead Total Volume (cu.ft/a)	1	0	0	177	0	0

Plot Summary Report

Installation 286 BLACK ROCK CREEK
 Region: Northern Idaho Ownership: BLM (Idaho)
 Legal Description: T48N R1W Section 8 Meridian: Boise

Plot Number	1	2	3	4	5	6
Initial Treatment (1982)	200#N	0#N	400#N	0#N	200#N	400#N
Second Treatment (1988)	200#N	None	N+K	N+K	None	200#N

MENSURATIONAL CHARACTERISTICS:

 At Time of Treatment (1982) Stand Age = 83

Live Trees per Acre	190	230	250	240	240	290
Live Basal Area (sq.ft/a)	191.6	216.2	249.7	201.5	189.8	223.1
Live Total Volume (cu.ft/a)	5652	7152	7922	6467	6329	6644
Crown Competition Factor	195	223	249	214	197	243
Relative Density Index	52.0	59.7	67.9	57.2	54.7	64.7
Mean Diameter (in)	13.6	13.1	13.5	12.4	12.0	11.9
Average Crown Ratio (%)	33.0	30.0	34.0	32.0	33.0	35.0
Site Height (feet)	91.5	96.3	93.8	91.0	99.6	89.9
Species Composition (% of BA)						
Douglas-fir	100.0	100.0	100.0	100.0	100.0	100.0

2 Years After Treatment (1984)

Live Trees per Acre	190	230	250	240	240	290
Live Basal Area (sq.ft/a)	202.8	224.4	263.6	208.9	198.9	234.5
Crown Competition Factor	203	229	258	219	204	253
Relative Density Index	54.2	61.4	70.7	58.8	56.6	67.2
Mean Diameter (in)	14.0	13.4	13.9	12.6	12.3	12.2
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0

4 Years After Treatment (1986)

Live Trees per Acre	190	230	250	240	240	290
Live Basal Area (sq.ft/a)	211.7	233.2	275.0	217.4	207.3	244.4
Live Total Volume (cu.ft/a)	6509	7940	9076	7175	7213	7588
Crown Competition Factor	209	235	266	225	210	261
Relative Density Index	56.0	63.2	73.0	60.6	58.4	69.3
Mean Diameter (in)	14.3	13.6	14.2	12.9	12.6	12.4
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	0	0

6 Years After Treatment (1988)

Live Trees per Acre	190	230	250	240	240	290
Live Basal Area (sq.ft/a)	219.8	241.2	286.6	226.1	215.6	251.8
Live Total Volume (cu.ft/a)	6874	8342	9653	7584	7631	7950
Crown Competition Factor	214	240	274	231	216	266
Relative Density Index	57.6	64.8	75.3	62.4	60.2	70.9
Mean Diameter (in)	14.6	13.9	14.5	13.1	12.8	12.6
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	0	0

8 Years After Treatment (1990)

Live Trees per Acre	190	220	250	240	240	290
Live Basal Area (sq.ft/a)	227.6	244.7	298.4	234.8	223.8	261.7
Live Total Volume (cu.ft/a)	7287	8678	10290	8031	8058	8415
Crown Competition Factor	220	240	282	237	221	273
Relative Density Index	59.1	64.7	77.6	64.2	61.9	73.0
Mean Diameter (in)	14.8	14.3	14.8	13.4	13.1	12.9
Dead Trees per Acre	0	10	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	4.7	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	123	0	0	1	0

10 Years After Treatment (1992)

Live Trees per Acre	190	220	250	240	240	290
Live Basal Area (sq.ft/a)	235.4	252.1	310.6	242.8	232.0	268.5
Crown Competition Factor	225	245	290	242	227	278
Relative Density Index	60.6	66.2	80.0	65.8	63.6	74.4
Mean Diameter (in)	15.1	14.5	15.1	13.6	13.3	13.0
Dead Trees per Acre	0	10	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	4.7	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	123	0	0	1	0

Plot Number	1	2	3	4	5	6
Initial Treatment (1982)	0#N	400#N	200#N	0#N	200#N	400#N
Second Treatment (1988)	N+K	200#N	200#N	None	None	None

MENSURATIONAL CHARACTERISTICS:

 At Time of Treatment (1982) Stand Age = 57

Live Trees per Acre	410	340	490	450	460	450
Live Basal Area (sq.ft/a)	180.6	156.8	210.8	174.1	163.1	158.7
Live Total Volume (cu.ft/a)	4773	4379	5674	4250	3930	3910
Crown Competition Factor	204	188	261	208	199	196
Relative Density Index	60.2	51.7	70.7	60.0	57.4	56.0
Mean Diameter (in)	9.0	9.2	8.9	8.4	8.1	8.0
Average Crown Ratio (%)	35.0	36.0	34.0	33.0	36.0	41.0
Site Height (feet)	83.4	81.1	77.5	69.5	71.0	73.4
Species Composition (% of BA)						
Douglas-fir	59.2	86.5	83.2	88.1	89.7	86.1
Grand Fir	8.4	8.4	11.1	0.0	0.0	5.4
Western Larch	29.2	5.1	5.6	10.3	10.3	8.5
Lodgepole Pine	0.0	0.0	0.0	1.6	0.0	0.0
Ponderosa Pine	3.2	0.0	0.0	0.0	0.0	0.0

2 Years After Treatment (1984)

Live Trees per Acre	410	340	490	450	460	450
Live Basal Area (sq.ft/a)	188.6	167.8	223.2	181.7	177.7	174.3
Crown Competition Factor	212	197	273	214	213	213
Relative Density Index	62.2	54.4	73.8	61.9	61.3	60.1
Mean Diameter (in)	9.2	9.5	9.1	8.6	8.4	8.4
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0

4 Years After Treatment (1986)

Live Trees per Acre	410	340	490	450	460	450
Live Basal Area (sq.ft/a)	196.4	177.8	235.0	189.5	189.1	186.3
Live Total Volume (cu.ft/a)	5498	5269	6712	4865	4854	4942
Crown Competition Factor	220	207	285	221	225	225
Relative Density Index	64.2	56.8	76.7	63.9	64.2	63.1
Mean Diameter (in)	9.4	9.8	9.4	8.8	8.7	8.7
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0
Dead Total Volume (cu.ft/a)	0	0	0	0	0	0

6 Years After Treatment (1988)

Live Trees per Acre	410	330	490	440	450	450
Live Basal Area (sq.ft/a)	205.4	186.3	246.3	197.2	197.0	197.9
Live Total Volume (cu.ft/a)	5875	5636	7198	5184	5176	5377
Crown Competition Factor	227	214	295	228	232	237
Relative Density Index	66.4	58.4	79.5	65.5	65.8	66.0
Mean Diameter (in)	9.6	10.2	9.6	9.1	9.0	9.0
Dead Trees per Acre	0	10	0	10	10	0
Dead Basal Area (sq.ft/a)	0.0	1.6	0.0	1.6	3.0	0.0
Dead Total Volume (cu.ft/a)	0	36	0	35	67	0

8 Years After Treatment (1990)

Live Trees per Acre	390	300	480	440	430	430
Live Basal Area (sq.ft/a)	207.7	180.4	251.2	205.0	198.1	203.0
Live Total Volume (cu.ft/a)	6138	5595	7539	5516	5380	5661
Crown Competition Factor	229	202	298	236	232	239
Relative Density Index	66.1	55.7	80.3	67.4	65.4	66.5
Mean Diameter (in)	9.9	10.5	9.8	9.2	9.2	9.3
Dead Trees per Acre	20	40	10	10	30	20
Dead Basal Area (sq.ft/a)	8.4	16.0	6.0	1.6	10.3	4.7
Dead Total Volume (cu.ft/a)	221	468	164	35	223	124

10 Years After Treatment (1992)

Live Trees per Acre	380	300	480	440	420	420
Live Basal Area (sq.ft/a)	216.6	191.0	264.5	214.7	206.1	211.6
Crown Competition Factor	237	211	307	245	238	247
Relative Density Index	67.8	58.1	83.4	69.8	66.9	68.3
Mean Diameter (in)	10.2	10.8	10.1	9.5	9.5	9.6
Dead Trees per Acre	30	40	10	10	40	30
Dead Basal Area (sq.ft/a)	11.5	16.0	6.0	1.6	12.5	7.0
Dead Total Volume (cu.ft/a)	306	465	164	35	259	177

Plot Number	1	2	3	4	5	6
Initial Treatment (1982)	0#N	200#N	400#N	0#N	400#N	200#N
Second Treatment (1988)	None	None	None	N+K	N+K	N+K

MENSURATIONAL CHARACTERISTICS:

At Time of Treatment (1982)	Stand Age = 54					
Live Trees per Acre	300	230	250	400	260	420
Live Basal Area (sq.ft/a)	265.0	222.3	216.2	255.4	243.1	335.3
Live Total Volume (cu.ft/a)	9139	5928	6739	7522	7828	10768
Crown Competition Factor	252	218	211	264	247	329
Relative Density Index	74.3	60.9	60.9	77.7	67.2	96.4
Mean Diameter (in)	12.7	13.3	12.6	10.8	13.1	12.1
Average Crown Ratio (%)	32.0	48.0	40.0	36.0	38.0	37.0
Site Height (feet)	94.0	81.1	93.5	94.3	93.1	95.1
Species Composition (% of BA)						
Douglas-fir	71.1	96.6	76.2	88.1	97.4	76.3
Grand Fir	0.0	0.0	10.0	1.1	0.0	0.0
Western Redcedar	0.0	0.0	0.0	2.8	0.0	0.0
Western Larch	1.5	0.0	13.8	8.1	0.0	0.0
Ponderosa Pine	27.4	3.4	0.0	0.0	2.6	23.7

2 Years After Treatment (1984)

Live Trees per Acre	300	230	250	400	260	420
Live Basal Area (sq.ft/a)	275.9	240.4	231.3	270.2	257.5	353.2
Crown Competition Factor	260	231	222	275	257	342
Relative Density Index	76.6	64.6	64.1	81.0	70.1	100.2
Mean Diameter (in)	13.0	13.8	13.0	11.1	13.5	12.4
Dead Trees per Acre	0	0	0	0	0	0
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	0.0

4 Years After Treatment (1986)

Live Trees per Acre	300	230	250	400	260	410
Live Basal Area (sq.ft/a)	283.8	252.8	244.9	281.6	267.9	364.4
Live Total Volume (cu.ft/a)	10214	7147	8187	8688	9123	12339
Crown Competition Factor	265	240	232	283	264	350
Relative Density Index	78.2	67.1	66.9	83.5	72.3	102.0
Mean Diameter (in)	13.2	14.2	13.4	11.4	13.7	12.8
Dead Trees per Acre	0	0	0	0	0	10
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	2.3
Dead Total Volume (cu.ft/a)	2	0	0	1	0	60

6 Years After Treatment (1988)

Live Trees per Acre	290	220	250	390	260	400
Live Basal Area (sq.ft/a)	287.1	261.4	254.1	288.7	275.6	367.9
Live Total Volume (cu.ft/a)	10581	7626	8723	9162	9625	12831
Crown Competition Factor	265	246	239	288	269	351
Relative Density Index	78.2	68.0	68.8	84.6	73.8	102.1
Mean Diameter (in)	13.5	14.8	13.7	11.7	13.9	13.0
Dead Trees per Acre	10	10	0	10	0	20
Dead Basal Area (sq.ft/a)	4.5	2.8	0.0	1.7	0.0	7.0
Dead Total Volume (cu.ft/a)	131	46	0	30	0	191

8 Years After Treatment (1990)

Live Trees per Acre	290	220	240	390	260	400
Live Basal Area (sq.ft/a)	297.0	275.4	259.8	301.0	287.8	384.6
Live Total Volume (cu.ft/a)	11161	8239	9232	9765	10313	13749
Crown Competition Factor	272	256	242	297	278	362
Relative Density Index	80.2	70.8	69.2	87.3	76.2	105.6
Mean Diameter (in)	13.7	15.2	14.1	11.9	14.2	13.3
Dead Trees per Acre	10	10	10	10	0	20
Dead Basal Area (sq.ft/a)	4.5	2.8	4.9	1.7	0.0	7.0
Dead Total Volume (cu.ft/a)	132	46	93	30	1	192

10 Years After Treatment (1992)

Live Trees per Acre	280	220	240	340	260	400
Live Basal Area (sq.ft/a)	300.6	287.0	269.4	284.9	298.0	395.6
Crown Competition Factor	273	264	249	278	285	370
Relative Density Index	80.3	73.0	71.1	80.9	78.3	107.8
Mean Diameter (in)	14.0	15.5	14.4	12.4	14.5	13.5
Dead Trees per Acre	20	10	10	60	0	20
Dead Basal Area (sq.ft/a)	8.6	2.8	4.9	29.5	0.0	7.0
Dead Total Volume (cu.ft/a)	233	46	93	880	1	192

Plot Number	1	2	3	4	5	6
Initial Treatment (1982)	0#N	200#N	400#N	400#N	200#N	0#N
Second Treatment (1988)	None	200#N	None	200#N	N+K	N+K

MENSURATIONAL CHARACTERISTICS:

 At Time of Treatment (1982) Stand Age = 51

Live Trees per Acre	450	550	370	360	450	400
Live Basal Area (sq.ft/a)	175.7	206.5	166.6	163.6	210.1	168.2
Live Total Volume (cu.ft/a)	4796	5491	3998	4265	5613	4303
Crown Competition Factor	216	258	200	192	246	199
Relative Density Index	60.4	71.7	55.3	54.2	69.1	56.8
Mean Diameter (in)	8.5	8.3	9.1	9.1	9.3	8.8
Average Crown Ratio (%)	41.0	35.0	53.0	41.0	41.0	41.0
Site Height (feet)	78.8	74.5	71.9	78.5	81.3	77.5
Species Composition (% of BA)						
Douglas-fir	100.0	99.0	100.0	100.0	97.0	100.0
Grand Fir	0.0	1.0	0.0	0.0	2.1	0.0
Western Larch	0.0	0.0	0.0	0.0	1.0	0.0

2 Years After Treatment (1984)

Live Trees per Acre	450	550	370	350	450	390
Live Basal Area (sq.ft/a)	187.3	221.5	183.2	178.4	227.1	178.1
Live Total Volume (cu.ft/a)	4796	5491	3998	4265	5613	4303
Crown Competition Factor	227	272	216	204	263	205
Relative Density Index	63.4	75.6	59.4	57.4	73.2	58.9
Mean Diameter (in)	8.7	8.6	9.5	9.7	9.6	9.2
Dead Trees per Acre	0	0	0	10	0	10
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	1.2	0.0	7.0

4 Years After Treatment (1986)

Live Trees per Acre	450	540	370	350	450	340
Live Basal Area (sq.ft/a)	196.2	229.4	193.3	190.1	238.5	181.7
Live Total Volume (cu.ft/a)	5652	6481	4881	5348	6764	5037
Crown Competition Factor	236	279	226	213	273	203
Relative Density Index	65.6	77.2	61.8	60.2	76.0	57.8
Mean Diameter (in)	8.9	8.8	9.8	10.0	9.9	9.9
Dead Trees per Acre	0	10	0	10	0	60
Dead Basal Area (sq.ft/a)	0.0	2.7	0.0	1.2	0.0	15.6
Dead Total Volume (cu.ft/a)	0	65	4	18	1	341

6 Years After Treatment (1988)

Live Trees per Acre	450	510	370	340	430	330
Live Basal Area (sq.ft/a)	203.5	232.9	201.5	193.0	241.4	191.6
Live Total Volume (cu.ft/a)	6023	6756	5219	5568	7104	5463
Crown Competition Factor	244	279	234	213	273	211
Relative Density Index	67.4	77.0	63.8	60.4	75.8	59.6
Mean Diameter (in)	9.1	9.2	10.0	10.2	10.2	10.3
Dead Trees per Acre	0	40	0	20	20	70
Dead Basal Area (sq.ft/a)	0.0	7.4	0.0	8.2	6.2	17.0
Dead Total Volume (cu.ft/a)	0	186	5	227	149	370

8 Years After Treatment (1990)

Live Trees per Acre	450	500	370	300	430	320
Live Basal Area (sq.ft/a)	211.0	240.0	210.5	186.6	252.9	202.5
Live Total Volume (cu.ft/a)	6373	7171	5595	5498	7582	5939
Crown Competition Factor	251	285	242	204	282	219
Relative Density Index	69.3	78.4	65.9	57.1	78.5	61.7
Mean Diameter (in)	9.3	9.4	10.2	10.7	10.4	10.8
Dead Trees per Acre	0	50	0	60	20	80
Dead Basal Area (sq.ft/a)	0.0	9.6	0.0	25.2	6.2	17.7
Dead Total Volume (cu.ft/a)	0	245	5	738	149	386

10 Years After Treatment (1992)

Live Trees per Acre	450	490	370	300	430	300
Live Basal Area (sq.ft/a)	219.9	247.3	220.9	199.7	265.5	209.3
Live Total Volume (cu.ft/a)	6373	7171	5595	5498	7582	5939
Crown Competition Factor	261	288	251	213	291	220
Relative Density Index	71.5	79.7	68.3	60.1	81.4	62.2
Mean Diameter (in)	9.5	9.6	10.5	11.1	10.6	11.3
Dead Trees per Acre	0	60	0	60	20	100
Dead Basal Area (sq.ft/a)	0.0	12.9	0.0	25.2	6.2	26.3
Dead Total Volume (cu.ft/a)	0	345	5	738	149	623

Plot Number	1	2	3	4	5	6
Initial Treatment (1982)	400#N	0#N	200#N	0#N	200#N	400#N
Second Treatment (1988)	None	None	None	N+K	200#N	None

MENSURATIONAL CHARACTERISTICS:

At Time of Treatment (1982) Stand Age = 75

Live Trees per Acre	420	420	520	510	440	610
Live Basal Area (sq.ft/a)	210.1	194.1	260.3	184.2	189.6	203.7
Live Total Volume (cu.ft/a)	5831	5573	7362	4967	4595	5215
Crown Competition Factor	235	235	304	226	227	254
Relative Density Index	67.9	64.0	84.1	64.6	63.6	72.8
Mean Diameter (in)	9.6	9.2	9.6	8.1	8.9	7.8
Average Crown Ratio (%)	35.0	26.0	29.0	31.0	35.0	31.0
Site Height (feet)	80.7	79.3	84.3	80.1	79.9	71.2
Species Composition (% of BA)						
Douglas-fir	89.6	100.0	100.0	96.3	100.0	91.8
Grand Fir	0.0	0.0	0.0	0.0	0.0	3.4
Western Larch	10.4	0.0	0.0	3.7	0.0	0.0
Lodgepole Pine	0.0	0.0	0.0	0.0	0.0	1.9
Ponderosa Pine	0.0	0.0	0.0	0.0	0.0	2.9

2 Years After Treatment (1984)

Live Trees per Acre	420	420	520	510	440	600
Live Basal Area (sq.ft/a)	223.6	204.0	273.3	192.2	197.6	212.9
Crown Competition Factor	247	245	316	234	238	263
Relative Density Index	71.2	66.4	87.2	66.7	65.6	75.0
Mean Diameter (in)	9.9	9.4	9.8	8.3	9.1	8.1
Dead Trees per Acre	0	0	0	0	0	10
Dead Basal Area (sq.ft/a)	0.0	0.0	0.0	0.0	0.0	1.5

4 Years After Treatment (1986)

Live Trees per Acre	390	340	510	460	380	440
Live Basal Area (sq.ft/a)	221.5	178.4	280.9	188.6	189.3	172.0
Live Total Volume (cu.ft/a)	6310	5257	8202	5318	4779	4610
Crown Competition Factor	240	212	320	226	222	208
Relative Density Index	69.3	57.0	88.6	64.1	61.2	59.1
Mean Diameter (in)	10.2	9.8	10.1	8.7	9.6	8.5
Dead Trees per Acre	30	80	10	50	60	170
Dead Basal Area (sq.ft/a)	12.1	34.0	4.2	11.4	17.1	50.7
Dead Total Volume (cu.ft/a)	335	962	109	271	371	1245

6 Years After Treatment (1988)

Live Trees per Acre	350	300	510	450	370	380
Live Basal Area (sq.ft/a)	197.1	173.9	288.9	193.3	192.1	161.9
Live Total Volume (cu.ft/a)	5693	5206	8577	5586	4979	4433
Crown Competition Factor	213	204	326	229	224	195
Relative Density Index	61.8	54.2	90.5	64.9	61.5	54.5
Mean Diameter (in)	10.2	10.3	10.2	8.9	9.8	8.8
Dead Trees per Acre	70	120	10	60	70	230
Dead Basal Area (sq.ft/a)	44.0	45.9	4.2	12.6	19.1	67.3
Dead Total Volume (cu.ft/a)	1245	1312	113	297	411	1689

8 Years After Treatment (1990)

Live Trees per Acre	330	290	500	440	370	380
Live Basal Area (sq.ft/a)	200.4	177.1	295.1	200.4	200.3	169.4
Live Total Volume (cu.ft/a)	5809	5371	8899	5913	5299	4721
Crown Competition Factor	212	205	329	235	231	201
Relative Density Index	61.7	54.4	91.5	66.3	63.5	56.3
Mean Diameter (in)	10.6	10.6	10.4	9.1	10.0	9.0
Dead Trees per Acre	90	130	20	70	70	230
Dead Basal Area (sq.ft/a)	48.3	51.1	6.4	13.8	19.1	67.3
Dead Total Volume (cu.ft/a)	1339	1460	168	320	411	1690

10 Years After Treatment (1992)

Live Trees per Acre	280	280	460	440	370	370
Live Basal Area (sq.ft/a)	172.1	182.8	273.7	209.5	208.2	175.8
Crown Competition Factor	182	208	305	244	238	205
Relative Density Index	52.8	55.3	84.7	68.6	65.3	57.5
Mean Diameter (in)	10.6	10.9	10.5	9.3	10.2	9.3
Dead Trees per Acre	140	140	60	70	70	240
Dead Basal Area (sq.ft/a)	83.3	53.8	35.1	13.8	19.1	68.4
Dead Total Volume (cu.ft/a)	2349	1533	1010	320	411	1709