

TECHNICAL DOCUMENTATION REPORT

Intermountain Forest Tree
Nutrition Cooperative

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College of Forestry, Wildlife
and Range Sciences
Univeristy of Idaho
Moscow, Idaho 83843

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SECTION I

Experimental Design Statistical Models for Four Year Response

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TABLE 1

FOUR YEAR GROSS BASAL AREA GROWTH FOR ALL DOUBLAS-FIR INSTALLATIONS

DEPENDENT VARIABLE:		4 YR GROSS BASAL AREA GROWTH (SQ.FT/A)	
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE
MODEL	205	28823.79024488	140.60385485
ERROR	358	2579.00074881	7.20391271
CORRECTED TOTAL	563	31402.79099369	

F VALUE	PR > F	R-SQUARE	C.V.	ROOT MSE	GBAI4 MEAN
19.52	0.0001	0.917874	13.6572	2.68401056	19.65278319

SOURCE	DF	TYPE I SS	F VALUE	PR > F
REGION	5	11402.73347802	316.57	0.0001
INSTALLATION (REGION)	88	12751.14856288	20.11	0.0001
BLOCK (REGION*INSTALL)	94	972.80867638	1.44	0.0103
TREATMENT	2	2715.30110139	188.46	0.0001
REGION*TREATMENT	10	477.70954446	6.63	0.0001
INITIAL BASAL AREA	1	325.77898563	45.22	0.0001
BASAL AREA*BASAL AREA	1	85.61293445	11.88	0.0006
BASAL AREA*TREATMENT	2	79.23280033	5.50	0.0044
BA*BA*TREATMENT	2	13.46416133	0.93	0.3937

SOURCE	DF	TYPE III SS	F VALUE	PR > F
REGION	5	7895.67858638	219.21	0.0001
INSTALLATION (REGION)	88	12926.53060164	20.39	0.0001
BLOCK (REGION*INSTALL)	94	804.33310337	1.19	0.1361
TREATMENT	2	73.83862761	5.12	0.0064
REGION*TREATMENT	10	519.54149813	7.21	0.0001
INITIAL BASAL AREA	1	202.78704887	28.15	0.0001
BASAL AREA*BASAL AREA	1	94.41560607	13.11	0.0003
BASAL AREA*TREATMENT	2	10.26541863	0.71	0.4911
BA*BA*TREATMENT	2	13.46416133	0.93	0.3937

TABLE 2

FOUR YEAR NET BASAL AREA GROWTH FOR ALL DOUGLAS-FIR INSTALLATIONS

DEPENDENT VARIABLE:	4 YR NET BASAL AREA GROWTH (SQ.FT/A)		
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE
MODEL	205	38237.48035537	186.52429442
ERROR	358	12320.04912162	34.41354503
CORRECTED TOTAL	563	50557.52947698	

F VALUE	PR > F	R-SQUARE	C.V.	ROOT MSE	NBAI4 MEAN
5.42	0.0001	0.756316	34.0325	5.86630591	17.23734702

SOURCE	DF	TYPE I SS	F VALUE	PR > F
REGION	5	12561.60798670	73.00	0.0001
INSTALLATION (REGION)	88	19627.57542638	6.48	0.0001
BLOCK (REGION*INSTALL)	94	2899.88630814	0.90	0.7348
TREATMENT	2	1620.34677871	23.54	0.0001
REGION*TREATMENT	10	815.67893638	2.37	0.0100
INITIAL BASAL AREA	1	83.69017846	2.43	0.1198
BASAL AREA*BASAL AREA	1	175.44853439	5.10	0.0246
BASAL AREA*TREATMENT	2	296.82862689	4.31	0.0141
BA*BA*TREATMENT	2	156.41757930	2.27	0.1045

SOURCE	DF	TYPE III SS	F VALUE	PR > F
REGION	5	10363.21769813	60.23	0.0001
INSTALLATION (REGION)	88	18950.90013728	6.26	0.0001
BLOCK (REGION*INSTALL)	94	2792.56659932	0.86	0.8027
TREATMENT	2	287.97292594	4.18	0.0160
REGION*TREATMENT	10	814.03857322	2.37	0.0102
INITIAL BASAL AREA	1	324.11439079	9.42	0.0023
BASAL AREA*BASAL AREA	1	261.86589542	7.61	0.0061
BASAL AREA*TREATMENT	2	153.26087062	2.23	0.1094
BA*BA*TREATMENT	2	156.41757930	2.27	0.1045

TABLE 3

FOUR YEAR MEAN HEIGHT INCREMENT FOR ALL DOUGLAS-FIR INSTALLATIONS

DEPENDENT VARIABLE:		4 YR MEAN HEIGHT INC (FT/TREE)		
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	
MODEL	205	1116.88277708	5.44820867	
ERROR	358	97.77770396	0.27312208	
CORRECTED TOTAL	563	1214.66048104		

F VALUE	PR > F	R-SQUARE	C.V.	ROOT MSE	HTINC4 MEAN
19.95	0.0001	0.919502	12.6522	0.52261083	4.13060284

SOURCE	DF	TYPE I SS	F VALUE	PR > F
REGION	5	312.25525582	228.66	0.0001
INSTALLATION (REGION)	88	687.43386488	28.60	0.0001
BLOCK (REGION*INSTALL)	94	39.92443767	1.56	0.0023
TREATMENT	2	58.91279000	107.85	0.0001
REGION*TREATMENT	10	13.24265246	4.85	0.0001
INITIAL BASAL AREA	1	1.31720779	4.82	0.0287
BASAL AREA*BASAL AREA	1	0.03310800	0.12	0.7279
BASAL AREA*TREATMENT	2	2.96178499	5.42	0.0048
BA*BA*TREATMENT	2	0.80167546	1.47	0.2319

SOURCE	DF	TYPE III SS	F VALUE	PR > F
REGION	5	265.05376027	194.09	0.0001
INSTALLATION (REGION)	88	526.54477607	21.91	0.0001
BLOCK (REGION*INSTALL)	94	40.74396698	1.59	0.0015
TREATMENT	2	3.69799726	6.77	0.0013
REGION*TREATMENT	10	14.08924664	5.16	0.0001
INITIAL BASAL AREA	1	0.10562723	0.39	0.5344
BASAL AREA*BASAL AREA	1	0.00321857	0.01	0.9136
BASAL AREA*TREATMENT	2	1.30057551	2.38	0.0939
BA*BA*TREATMENT	2	0.80167546	1.47	0.2319

TABLE 4

FOUR YEAR GROSS VOLUME GROWTH FOR ALL DOUGLAS-FIR INSTALLATIONS

DEPENDENT VARIABLE:	4 YR GROSS VOLUME GROWTH (CU.FT/A)		
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE
MODEL	205	39477179.24794276	192571.60608753
ERROR	358	2807223.49299382	7841.40640501
CORRECTED TOTAL	563	42284402.74093658	

F VALUE	PR > F	R-SQUARE	C.V.	ROOT MSE	GVI4 MEAN
24.56	0.0001	0.933611	12.3912	88.55171599	714.63310950

SOURCE	DF	TYPE I SS	F VALUE	PR > F
REGION	5	18821963.03839118	480.07	0.0001
INSTALLATION (REGION)	88	13190495.44827067	19.12	0.0001
BLOCK (REGION*INSTALL)	94	2341390.47556708	3.18	0.0001
TREATMENT	2	2896142.60508269	184.67	0.0001
REGION*TREATMENT	10	658055.99890799	8.39	0.0001
INITIAL BASAL AREA	1	1469211.69225905	187.37	0.0001
BASAL AREA*BASAL AREA	1	79727.60637730	10.17	0.0016
BASAL AREA*TREATMENT	2	13342.49507351	0.85	0.4279
BA*BA*TREATMENT	2	6849.88801332	0.44	0.6465

SOURCE	DF	TYPE III SS	F VALUE	PR > F
REGION	5	10363443.85074831	264.33	0.0001
INSTALLATION (REGION)	88	10919104.77684787	15.82	0.0001
BLOCK (REGION*INSTALL)	94	1305927.08630235	1.77	0.0001
TREATMENT	2	50210.80852629	3.20	0.0419
REGION*TREATMENT	10	648960.01296307	8.28	0.0001
INITIAL BASAL AREA	1	369509.12684709	47.12	0.0001
BASAL AREA*BASAL AREA	1	89209.89908711	11.38	0.0008
BASAL AREA*TREATMENT	2	4367.52251342	0.28	0.7571
BA*BA*TREATMENT	2	6849.88801332	0.44	0.6465

TABLE 5

FOUR YEAR NET VOLUME GROWTH FOR ALL DOUGLAS-FIR INSTALLATIONS

DEPENDENT VARIABLE:		4 YR NET VOLUME GROWTH (CU.FT/A)	
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE
MODEL	205	44840237.37742390	218732.86525573
ERROR	358	10802313.19674038	30174.05920877
CORRECTED TOTAL	563	55642550.57416427	

F VALUE	PR > F	R-SQUARE	C.V.	ROOT MSE	NVI4 MEAN
7.25	0.0001	0.805862	26.5789	173.70681970	653.55199247

SOURCE	DF	TYPE I SS	F VALUE	PR > F
REGION	5	20043388.46441023	132.85	0.0001
INSTALLATION (REGION)	88	16497836.21842420	6.21	0.0001
BLOCK (REGION*INSTALL)	94	3806310.89949404	1.34	0.0304
TREATMENT	2	2061027.62904898	34.15	0.0001
REGION*TREATMENT	10	1012768.61285915	3.36	0.0003
INITIAL BASAL AREA	1	825763.31200426	27.37	0.0001
BASAL AREA*BASAL AREA	1	202805.47182787	6.72	0.0099
BASAL AREA*TREATMENT	2	199372.19000117	3.30	0.0379
BA*BA*TREATMENT	2	190964.57935400	3.16	0.0434

SOURCE	DF	TYPE III SS	F VALUE	PR > F
REGION	5	13370638.16959931	88.62	0.0001
INSTALLATION (REGION)	88	16108473.33423864	6.07	0.0001
BLOCK (REGION*INSTALL)	94	2928362.88992656	1.03	0.4102
TREATMENT	2	246817.83247725	4.09	0.0175
REGION*TREATMENT	10	978135.43236802	3.24	0.0005
INITIAL BASAL AREA	1	586241.02195062	19.43	0.0001
BASAL AREA*BASAL AREA	1	302843.68847839	10.04	0.0017
BASAL AREA*TREATMENT	2	152207.43777542	2.52	0.0817
BA*BA*TREATMENT	2	190964.57935400	3.16	0.0434

TABLE 6

GROSS BASAL AREA INCREMENT IN FIRST TWO YEARS
FOR ALL DOUGLAS-FIR INSTALLATIONS

DEPENDENT VARIABLE:		GROSS BAI IN FIRST 2 YEARS		
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	
MODEL	197	9022.67681596	45.80038993	
ERROR	342	810.67955012	2.37040804	
CORRECTED TOTAL	539	9833.35636608		

F VALUE	PR > F	R-SQUARE	C.V.	ROOT MSE	PGBAI_1 MEAN
19.32	0.0001	0.917558	14.7372	1.53961295	10.44708519

SOURCE	DF	TYPE I SS	F VALUE	PR > F
REGION	5	3179.49713305	268.27	0.0001
INSTALLATION (REGION)	84	4369.80093903	21.95	0.0001
BLOCK (REGION*INSTALL)	90	328.19893733	1.54	0.0034
TREATMENT	2	897.51810721	189.32	0.0001
REGION*TREATMENT	10	121.34534286	5.12	0.0001
INITIAL BASAL AREA	1	83.72178145	35.32	0.0001
BASAL AREA*BASAL AREA	1	17.48260366	7.38	0.0069
BASAL AREA*TREATMENT	2	19.67344369	4.15	0.0166
BA*BA*TREATMENT	2	5.43852766	1.15	0.3188

SOURCE	DF	TYPE III SS	F VALUE	PR > F
REGION	5	2277.07306958	192.12	0.0001
INSTALLATION (REGION)	84	4405.25456177	22.12	0.0001
BLOCK (REGION*INSTALL)	90	276.74937001	1.30	0.0524
TREATMENT	2	19.80558338	4.18	0.0161
REGION*TREATMENT	10	132.05860927	5.57	0.0001
INITIAL BASAL AREA	1	44.38852242	18.73	0.0001
BASAL AREA*BASAL AREA	1	19.16523611	8.09	0.0047
BASAL AREA*TREATMENT	2	4.02880210	0.85	0.4284
BA*BA*TREATMENT	2	5.43852766	1.15	0.3188

TABLE 7

GROSS BASAL AREA INCREMENT IN SECOND TWO YEARS
FOR ALL DOUGLAS-FIR INSTALLATIONS

DEPENDENT VARIABLE:		GROSS BAI IN SECOND 2 YEARS		
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	
MODEL	197	6305.63033136	32.00827579	
ERROR	342	615.31281695	1.79916028	
CORRECTED TOTAL	539	6920.94314830		

F VALUE	PR > F	R-SQUARE	C.V.	ROOT MSZ	PGBAI_2 MEAN
17.79	0.0001	0.911094	14.5404	1.34132781	9.22484074

SOURCE	DF	TYPE I SS	F VALUE	PR > F
REGION	5	2598.52119424	288.86	0.0001
INSTALLATION (REGION)	84	2804.31721607	18.56	0.0001
BLOCK (REGION*INSTALL)	90	195.86942667	1.21	0.1174
TREATMENT	2	481.78764145	133.89	0.0001
REGION*TREATMENT	10	109.23034262	6.07	0.0001
INITIAL BASAL AREA	1	69.47690468	38.62	0.0001
BASAL AREA*BASAL AREA	1	20.84741223	11.59	0.0007
BASAL AREA*TREATMENT	2	22.10127429	6.14	0.0024
BA*BA*TREATMENT	2	3.47891911	0.97	0.3813

SOURCE	DF	TYPE III SS	F VALUE	PR > F
REGION	5	2012.49523536	223.71	0.0001
INSTALLATION (REGION)	84	2843.83760863	18.82	0.0001
BLOCK (REGION*INSTALL)	90	162.87985780	1.01	0.4730
TREATMENT	2	21.82232532	6.06	0.0026
REGION*TREATMENT	10	119.80140637	6.66	0.0001
INITIAL BASAL AREA	1	48.38916231	26.90	0.0001
BASAL AREA*BASAL AREA	1	24.19049849	13.45	0.0003
BASAL AREA*TREATMENT	2	4.19991475	1.17	0.3125
BA*BA*TREATMENT	2	3.47891911	0.97	0.3813

TABLE 8

NET BASAL AREA INCREMENT IN FIRST TWO YEARS
FOR ALL DOUGLAS-FIR INSTALLATIONS

DEPENDENT VARIABLE:		NET BAI IN FIRST 2 YEARS	
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE
MODEL	197	10419.12996326	52.88898459
ERROR	342	2704.14316214	7.90685135
CORRECTED TOTAL	539	13123.27312540	

F VALUE	PR > F	R-SQUARE	C.V.	ROOT MSE	PNBAI_1 MEAN
6.69	0.0001	0.793943	28.3668	2.81191240	9.91270000

SOURCE	DF	TYPE I SS	F VALUE	PR > F
REGION	5	3564.51646130	90.16	0.0001
INSTALLATION (REGION)	84	5028.76489910	7.57	0.0001
BLOCK (REGION*INSTALL)	90	724.75781500	1.02	0.4436
TREATMENT	2	846.73335068	53.54	0.0001
REGION*TREATMENT	10	149.01346637	1.88	0.0462
INITIAL BASAL AREA	1	13.19006791	1.67	0.1974
BASAL AREA*BASAL AREA	1	42.70451345	5.40	0.0207
BASAL AREA*TREATMENT	2	5.33164349	0.34	0.7140
BA*BA*TREATMENT	2	44.11774596	2.79	0.0628

SOURCE	DF	TYPE III SS	F VALUE	PR > F
REGION	5	2967.31022290	75.06	0.0001
INSTALLATION (REGION)	84	4950.27170065	7.45	0.0001
BLOCK (REGION*INSTALL)	90	701.72428939	0.99	0.5202
TREATMENT	2	61.77467393	3.91	0.0210
REGION*TREATMENT	10	110.91321088	1.40	0.1773
INITIAL BASAL AREA	1	78.34359866	9.91	0.0018
BASAL AREA*BASAL AREA	1	68.20377616	8.63	0.0035
BASAL AREA*TREATMENT	2	36.52658887	2.31	0.1008
BA*BA*TREATMENT	2	44.11774596	2.79	0.0628

TABLE 9

NET BASAL AREA INCREMENT IN SECOND TWO YEARS
FOR ALL DOUGLAS-FIR INSTALLATIONS

DEPENDENT VARIABLE:		NET BAI IN SECOND 2 YEARS		
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	
MODEL	197	14327.00667875	72.72592223	
ERROR	342	7373.16329469	21.55895700	
CORRECTED TOTAL	539	21700.16997344		

F VALUE	PR > F	R-SQUARE	C.V.	ROOT MSE	PNBAI_2 MEAN
3.37	0.0001	0.660226	63.6211	4.64316239	7.29814630

SOURCE	DF	TYPE I SS	F VALUE	PR > F
REGION	5	3609.22249714	33.48	0.0001
INSTALLATION (REGION)	84	8269.92605231	4.57	0.0001
BLOCK (REGION*INSTALL)	90	1576.30277750	0.81	0.8812
TREATMENT	2	153.71409801	3.56	0.0294
REGION*TREATMENT	10	405.95373984	1.88	0.0465
INITIAL BASAL AREA	1	19.83631897	0.92	0.3381
BASAL AREA*BASAL AREA	1	36.92208480	1.71	0.1915
BASAL AREA*TREATMENT	2	213.26341587	4.95	0.0076
BA*BA*TREATMENT	2	41.86569381	0.97	0.3798

SOURCE	DF	TYPE III SS	F VALUE	PR > F
REGION	5	3393.26259691	31.48	0.0001
INSTALLATION (REGION)	84	8023.53374720	4.43	0.0001
BLOCK (REGION*INSTALL)	90	1533.36827149	0.79	0.9096
TREATMENT	2	105.43533156	2.45	0.0882
REGION*TREATMENT	10	441.48880301	2.05	0.0281
INITIAL BASAL AREA	1	71.31626334	3.31	0.0698
BASAL AREA*BASAL AREA	1	56.75806737	2.63	0.1056
BASAL AREA*TREATMENT	2	59.47873318	1.38	0.2531
BA*BA*TREATMENT	2	41.86569381	0.97	0.3798

SECTION II

Number and Volume of Mortality Trees by Region, Treatment, and Cause

Table 10. Mortality Causes by Treatment for North Idaho

Table 11. Mortality Causes by Treatment for Montana

Table 12. Mortality Causes by Treatment for Central Idaho

Table 13. Mortality Causes by Treatment for Northeast Oregon

Table 14. Mortality Causes by Treatment for Central Washington

Table 15. Mortality Causes by Treatment for Northeast Washington

Table 16. Mortality Causes by Treatment for all Regions Combined

TABLE 10

MORTALITY CAUSES BY TREATMENT FOR NORTH IDAHO

REGION: NORTH IDAHO

CAUSE OF MORTALITY	TREATMENT						ALL	
	CONTROL		200#N/A		400#N/A		TREES	VOLUME
	TREES	VOLUME	TREES	VOLUME	TREES	VOLUME		
UNKNOWN	20	77	70	260	90	353	180	690
UNHEALTHY	.	.	10	114	30	152	40	266
COMPETITION	80	81	70	157	50	53	200	290
MANAGEMENT	.	.	10	97	.	.	10	97
STEM FORM	10	95	20	159	.	.	30	255
TOP DAMAGE	.	.	10	21	10	112	20	132
INSECT	10	49	10	48	10	23	30	120
BARK BEETLE	.	.	10	68	.	.	10	68
DISEASE	50	449	70	436	60	315	180	1200
WIND	20	248	170	648	400	2631	590	3527
SNOW	90	282	110	331	50	122	250	734
TOTAL DEAD	280	1280	560	2338	700	3761	1540	7379
LIVE	13100	202473	12690	206362	12660	204739	38450	613574
TOTAL	13380	203754	13250	208700	13360	208499	39990	620953

TABLE 11

MORTALITY CAUSES BY TREATMENT FOR MONTANA

REGION: MONTANA

CAUSE OF MORTALITY	TREATMENT						ALL	
	CONTROL		200#N/A		400#N/A		TREES	VOLUME
	TREES	VOLUME	TREES	VOLUME	TREES	VOLUME		
UNKNOWN	20	42	.	.	40	276	60	318
UNHEALTHY	.	.	.	.	10	34	10	34
MANAGEMENT	.	.	.	.	20	358	20	358
STEM FORM	10	40	.	.	.	.	10	40
TOP DAMAGE	.	.	10	24	.	.	10	24
BARK BEETLE	140	1337	360	2750	120	1274	620	5361
DEFOLIATOR	.	.	10	34	10	25	20	60
WIND	30	73	90	331	160	592	280	996
SNOW	.	.	.	.	10	30	10	30
TOTAL DEAD	200	1492	470	3139	370	2590	1040	7220
LIVE	8990	115767	8630	108093	8230	112624	25850	336484
TOTAL	9190	117259	9100	111232	8600	115214	26890	343705

TABLE 12

MORTALITY CAUSES BY TREATMENT FOR CENTRAL IDAHO

REGION: CENTRAL IDAHO

CAUSE OF MORTALITY	TREATMENT						ALL	
	CONTROL		200#N/A		400#N/A		TREES	VOLUME
	TREES	VOLUME	TREES	VOLUME	TREES	VOLUME		
UNKNOWN	10	88	10	103	.	.	20	191
COMPETITION	7	8	.	.	.	.	7	8
BARK BEETLE	10	383	.	.	.	.	10	383
DEFOLIATOR	.	.	.	.	10	38	10	38
WIND	10	74	10	59	30	246	50	380
TOTAL DEAD	37	553	20	162	40	284	97	999
LIVE	6233	98356	5770	90383	6570	94963	18573	283702
TOTAL	6270	98909	5790	90545	6610	95247	18670	284701

TABLE 13

MORTALITY CAUSES BY TREATMENT FOR NORTHEAST OREGON

REGION: NE OREGON

CAUSE OF MORTALITY	TREATMENT						ALL	
	CONTROL		200#N/A		400#N/A		TREES	VOLUME
	TREES	VOLUME	TREES	VOLUME	TREES	VOLUME		
UNKNOWN	30	391	20	574	70	1933	120	2998
UNHEALTHY	.	.	.	.	10	203	10	203
COMPETITION	10	17	.	.	.	.	10	17
MANAGEMENT	.	.	20	453	20	314	40	767
STEM FORM	20	110	20	82	.	.	40	192
TOP DAMAGE	10	32	10	383	.	.	20	415
DISEASE	10	166	30	423	.	.	40	590
WIND	67	773	20	158	10	265	97	1196
TOTAL DEAD	147	1488	120	2074	110	2715	377	6277
LIVE	3157	80965	3380	88918	3440	95063	9977	264951
TOTAL	3303	82453	3500	90992	3550	97783	10353	271228

TABLE 14

MORTALITY CAUSES BY TREATMENT FOR CENTRAL WASHINGTON

REGION: CENTRAL WASHINGTON

CAUSE OF MORTALITY	TREATMENT						ALL	
	CONTROL		200#N/A		400#N/A			
	TREES	VOLUME	TREES	VOLUME	TREES	VOLUME	TREES	VOLUME
UNKNOWN	20	200	35	331	10	138	65	669
STEM FORM	.	.	20	192	10	22	30	214
TOP DAMAGE	.	.	10	19	.	.	10	19
DISEASE	20	795	.	.	30	437	50	1232
WIND	15	276	.	.	.	.	15	276
TOTAL DEAD	55	1271	65	542	50	596	170	2410
LIVE	8210	176765	8850	187259	8615	184829	25675	548853
TOTAL	8265	178037	8915	187801	8665	185425	25845	551263

TABLE 15

MORTALITY CAUSES BY TREATMENT FOR NORTHEAST WASHINGTON

REGION: NE WASHINGTON

CAUSE OF MORTALITY	TREATMENT						ALL	
	CONTROL		200#N/A		400#N/A		TREES	VOLUME
	TREES	VOLUME	TREES	VOLUME	TREES	VOLUME		
UNKNOWN	40	135	30	124	70	380	140	639
COMPETITION	10	43	10	65	80	124	100	232
STEM FORM	.	.	10	69	.	.	10	69
TOP DAMAGE	.	.	40	263	50	605	90	868
BARK BEETLE	.	.	10	173	.	.	10	173
DEFOLIATOR	10	20	10	112	.	.	20	132
DISEASE	10	22	20	256	50	423	80	701
ANIMAL	.	.	10	14	.	.	10	14
WIND	200	1981	180	1202	400	3405	780	6588
SNOW	70	492	.	.	20	106	90	598
TOTAL DEAD	340	2692	320	2279	670	5042	1330	10013
LIVE	9160	127762	9250	138374	8830	138425	27240	404563
TOTAL	9500	130455	9570	140653	9500	143469	28570	414576

TABLE 16

MORTALITY CAUSES BY TREATMENT FOR ALL REGIONS COMBINED

ALL REGIONS

CAUSE OF MORTALITY	TREATMENT						ALL	
	CONTROL		200#N/A		400#N/A			
	TREES	VOLUME	TREES	VOLUME	TREES	VOLUME	TREES	VOLUME
UNKNOWN	140	933	165	1392	280	3080	585	5406
UNHEALTHY	-	-	10	114	50	388	60	502
COMPETITION	107	148	80	222	130	176	317	546
MANAGEMENT	-	-	30	550	40	672	70	1222
STEM FORM	40	246	70	501	10	22	120	769
TOP DAMAGE	10	32	80	710	60	716	150	1458
INSECT	10	49	10	48	10	23	30	120
BARK BEETLE	150	1720	380	2990	120	1274	650	5984
DEFOLIATOR	10	20	20	147	20	63	50	230
DISEASE	90	1432	120	1115	140	1175	350	3722
ANIMAL	-	-	10	14	-	-	10	14
WIND	342	3425	470	2398	1000	7140	1812	12963
SNOW	160	774	110	331	80	257	350	1362
TOTAL DEAD	1058	8777	1555	10533	1940	14988	4553	34299
LIVE	48850	802089	48570	819390	48345	830649	145765	2452128
TOTAL	49908	810867	50125	829923	50285	845637	150318	2486427

SECTION III

- A. Soil Physical Properties for Douglas-fir Installations
- B. Soil Chemical Properties for Douglas-fir Installations
- C. Backdated Data to Time of Thinning for Individual Trees on 1981 Control Plots
- D. Backdated Growth and Yield Plot Data for 1981 Control Plots

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*
*  DEFINITIONS OF VARIABLES ON THE DATA SET CONTAINING THE SOIL
*  PHYSICAL PROPERTIES FOR THE I.F.T.N.C. SITES
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INSTALL  -----INSTALLATION NUMBER
PNAT     -----SOIL PARENT MATERIAL (SEE CODE DEFINITIONS)
SOILDEEP -----SOIL DEPTH (SEE CODE DEFINITIONS)
ASHDEPTH -----VOLCANIC ASH DEPTH (SEE CODE DEFINITIONS)
RESTRICT -----DEPTH TO A RESTRICTING LAYER (INCHES)
CFRAC    -----% COARSE FRACTION OF ENTIRE PROFILE
CF_SUR   -----% COARSE FRACTION OF SURFACE SOIL (0-6")
CF_SUB   -----% COARSE FRACTION OF SUBSURFACE SOIL (18-24")
BD_SUR   -----BULK DENSITY OF SURFACE SOIL (0-6")
BD_SUB   -----BULK DENSITY OF SUBSURFACE SOIL (18-24")
H2O_24   -----MOISTURE HOLDING CAPACITY OF TOP 24"
H2O_TOT  -----MOISTURE HOLDING CAPACITY OF TOTAL SOIL
```

CODE DEFINITIONS:

```
PARENT MATERIAL  1=GRANITE
                  2,5= ASH/LOESS
                  3=BASALT
                  4=GLACIAL TILL
                  6,7= ASH/METASEDIMENTS
                  8=VALLEY FILL
                  9=COLLUVIUM
                  10=ALLUVIUM
                  11=SANDSTONE
```

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ASH DEPTH  1=ZERO
            2=SHALLOW < 3 INCHES
            3=MEDIUM 3-12 INCHES
            4=DEEP > 12 INCHES
            5=TRACE
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SOIL DEPTH  1= SHALLOW < 12 INCHES
            2= MEDIUM 12-24 INCHES
            3= DEEP > 24 INCHES
```

INTERMOUNTAIN FOREST TREE NUTRITION COOPERATIVE

SOIL PHYSICAL PROPERTIES

I N S T A L L	P M A T	S O I L D E P T H	A S H D E P T H	R E S T R I C T	C F R A C	C F S U R	C F S U B	B D S U R	B D S U B	H 2 O — 2 4	H 2 O — 2 4
201	1	3	1	30	17.3	5	45	1.31	1.39	3.44	4.54
202	1	3	1	32	31.1	20	50	0.99	1.11	1.87	3.01
203	1	3	1	61	11.2	5	10	1.02	1.45	3.58	8.07
204	6	3	3	60	8.3	0	0	0.72	0.91	8.64	22.41
205	6	3	4	61	6.3	0	5	0.65	1.33	8.53	20.83
206	5	3	4	22	15.0	0	15	0.70	1.62	8.81	15.89
207	3	2	5	25	17.1	0	35	0.92	1.12	3.11	3.14
208	2	2	5	34	12.6	10	15	0.69	1.51	5.27	7.19
209	4	3	2	28	18.0	10	85	0.68	1.23	4.07	4.12
210	1	2	2	37	22.5	5	20	0.72	1.15	5.86	6.53
211	4	3	2	63	12.5	3	15	0.92	1.43	11.28	14.57
212	3	1	1	29	29.2	25	45	0.70	0.91	2.58	2.89
213	5	3	4	63	12.2	2	2	0.67	1.44	12.00	21.34
214	4	3	3	50	21.3	15	50	0.89	1.32	6.22	8.06
215	4	3	2	63	36.2	20	65	1.02	0.38	3.75	9.07
216	4	2	2	41	22.7	20	75	0.83	1.00	6.00	6.64
217	4	3	3	41	15.2	3	35	0.98	1.41	5.15	7.24
218	4	2	1	36	16.6	10	25	0.94	1.21	5.23	7.87
219	3	2	1	26	11.8	2	80	0.79	1.00	2.42	2.50
220	1	3	1	59	22.8	10	35	1.04	1.42	3.43	6.20
221	3	2	1	34	15.4	5	45	0.68	1.01	3.00	3.83
222	3	2	1	49	16.5	5	65	0.87	0.98	3.34	4.16
223	3	2	1	43	14.6	10	25	0.80	1.24	4.20	6.45
224	3	1	1	27	14.1	5	85	0.74	0.33	1.94	2.01
225	3	3	1	40	13.1	10	40	1.07	1.19	4.21	5.91
226	3	3	1	41	5.6	5	10	1.17	1.43	6.50	11.78
227	3	2	5	60	15.6	5	20	1.04	1.25	5.53	9.91
228	2	2	1	49	11.3	15	25	1.24	1.26	11.47	16.21
229	3	2	5	39	21.1	0	15	1.19	1.65	8.31	10.99
230	2	3	2	49	16.4	0	2	1.18	1.56	7.61	14.34
231	4	2	1	34	37.5	20	40	0.89	0.90	3.39	3.97
232	4	1	1	31	31.6	25	75	0.82	0.90	1.57	1.57
233	10	2	1	34	33.2	20	45	0.94	1.28	4.27	6.02
234	4	1	1	33	47.2	40	15	1.60	1.60	8.31	11.17
235	10	2	1	42	47.3	25	70	0.85	1.13	2.92	3.90
236	8	1	1	35	30.6	40	70	0.68	1.14	2.21	2.71
237	4	2	1	27	50.0	50	75	0.61	0.90	1.42	1.50
238	8	1	1	48	45.4	35	70	0.65	0.77	2.28	3.29
239	3	2	1	60	31.2	15	20	0.97	1.52	4.87	12.99
240	6	3	3	58	9.8	0	5	0.74	1.39	11.20	20.97
241	4	3	4	60	5.8	2	0	0.99	1.42	10.08	17.99
242	4	2	2	44	28.6	20	60	0.95	1.41	6.01	7.55
243	4	2	3	36	26.6	10	60	0.75	1.21	5.14	7.49
244	1	3	1	26	23.0	15	25	1.19	1.28	3.29	3.33
245	3	2	1	23	29.1	15	50	0.96	1.04	4.14	4.14
246	4	3	2	44	31.0	32	68	0.92	1.42	2.81	4.55
247	4	3	3	28	24.1	10	60	0.76	1.21	7.14	8.01

INTERMOUNTAIN FOREST TREE NUTRITION COOPERATIVE

SOIL PHYSICAL PROPERTIES

I N S T A L L	P M A T	S O I L D E P T H	A S H D E P T H	E S T I M A T E	C F R A C T	C F S U R	C F S U B	B D S U R	B D S U B	H 2 O C O N T E N T	H 2 O T O T A L
248	3	3	1	42	11.1	3	8	1.19	1.63	6.47	12.04
249	3	3	1	45	12.3	2	3	1.02	1.44	6.38	10.42
250	6	3	3	63	13.7	0	10	0.76	1.29	11.77	22.36
251	9	2	1	43	40.2	30	70	0.90	1.42	2.50	3.85
252	10	2	1	40	42.3	50	85	0.95	1.08	1.42	1.42
253	6	3	4	37	16.4	5	55	0.67	1.20	7.69	12.37
254	7	3	4	46	13.1	0	3	0.67	1.78	10.36	20.06
255	6	3	4	36	8.1	5	25	0.66	0.92	11.05	21.11
256	7	3	4	60	18.8	0	10	0.92	1.50	10.73	19.39
257	3	2	1	48	16.9	15	65	0.67	0.99	2.52	3.36
258	3	2	1	38	19.9	42	25	1.10	0.87	3.11	4.95
259	11	3	1	37	14.2	10	80	0.99	1.51	2.72	2.96
260	1	3	5	47	18.1	5	12	1.00	1.22	2.55	4.81
261	11	3	5	28	9.2	5	16	0.82	1.30	2.48	2.83
262	4	3	2	65	16.8	55	70	1.11	1.22	2.36	5.67
263	11	3	3	50	9.1	5	10	1.12	1.40	4.20	7.05
264	5	3	4	43	13.9	3	15	0.65	0.69	9.95	19.11
265	6	3	4	57	16.1	0	9	0.82	1.43	10.83	17.98
266	4	3	3	46	35.5	17	65	0.55	1.09	2.79	4.34
267	4	3	3	37	27.8	5	25	1.02	1.37	6.97	9.60
268	4	3	2	42	30.2	15	35	0.78	1.22	7.14	9.52
269	9	3	1	24	53.8	35	80	0.64	0.99	2.26	2.26
270	9	3	1	54	51.4	25	40	0.77	1.07	3.65	6.41
271	9	2	1	41	46.3	35	75	0.73	0.95	1.92	2.27
272	2	3	2	45	46.5	25	75	0.68	1.17	2.75	3.37
273	6	3	4	61	18.9	10	40	0.85	1.23	3.09	13.53
274	4	3	3	50	22.8	20	55	0.84	1.21	5.02	3.51
275	4	3	2	53	21.6	50	30	0.63	1.46	1.66	2.71
276	3	2	1	24	20.7	5	70	0.65	0.84	2.35	2.60
277	3	2	1	52	19.1	0	15	0.76	1.01	4.25	8.28
278	1	3	1	28	19.4	4	45	1.27	1.25	3.33	3.55
279	1	3	1	69	23.9	5	15	1.19	1.26	3.89	7.36
280	1	3	1	26	29.5	15	55	1.08	1.06	2.17	2.24
281	6	3	4	52	18.9	7	45	0.74	1.14	7.62	8.11
282	4	3	4	63	11.4	3	20	0.88	0.89	11.83	15.05
283	4	3	4	62	11.9	0	2	1.11	1.09	12.37	15.61
284	8	2	1	31	35.2	30	80	0.70	1.18	2.14	2.47
285	8	3	1	52	21.2	20	15	1.14	1.21	6.83	11.86
286	6	3	2	29	41.8	20	55	0.65	1.22	3.43	4.08
287	2	3	2	37	9.1	0	0	1.25	1.47	7.79	19.38
288	2	3	3	50	16.5	15	35	1.12	1.23	4.95	10.63
289	4	3	5	50	38.0	20	30	0.82	1.02	10.12	12.62
290	3	2	2	33	33.0	12	40	0.86	1.35	7.50	8.67

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*
*  DEFINITIONS OF VARIABLES ON THE DATA SET CONTAINING THE SOIL
*  CHEMICAL PROPERTIES FOR THE I.F.T.N.C. SITES
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INSTALL -----INSTALLATION NUMBER
TOTAL_N -----TOTAL SOIL NITROGEN (PPM)
MIN_N -----MINERALIZABLE NITROGEN (PPM)
C_MIN_N -----CORRECTED MINERALIZABLE NITROGEN (PPM)
TOTAL_P -----TOTAL SOIL PHOSPHORUS (PPM)
AVAIL_P -----AVAILABLE SOIL PHOSPHORUS (PPM)
CARBON -----PERCENT (%) CARBON IN SOIL
C_N -----CARBON TO NITROGEN RATIO
PH -----SOIL PH LEVEL
EX_MG -----EXCHANGABLE SOIL MAGNESIUM (MEQ/100G)
EX_CA -----EXCHANGABLE SOIL CALCIUM (MEQ/100G)
EX_K -----EXCHANGABLE SOIL POTASSIUM (MEQ/100G)
EX_NA -----EXCHANGABLE SOIL SODIUM (MEQ/100G)
CEC -----CATION EXCHANGE CAPACITY
BASE_SAT -----BASE SATURATION (%)
BS_MG -----BASE SATURATION MAGNESIUM (%)
BS_CA -----BASE SATURATION CALCIUM (%)
BS_K -----BASE SATURATION POTASSIUM (%)
BS_NA -----BASE SATURATION SODIUM (%)

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INTERMOUNTAIN FOREST TREE NUTRITION COOPERATIVE

SOIL CHEMICAL PROPERTIES

INSTALL	TOTAL_N	MIN_N	C_MIN_N	TOTAL_P	AVAIL_P	CARBON	C_N	PH	EX_MG
201	1627	23	19	694	65.48	1.3	8.33	5.7	1.03
202	1427	20	14	356	28.01	1.2	8.47	6.0	1.02
203	1260	19	17	322	76.28	1.3	12.16	5.9	1.12
204	2213	30	28	686	10.69	1.6	3.97	6.1	1.23
205	3166	34	32	804	10.92	1.9	6.03	6.0	1.19
206	2603	28	23	659	56.68	1.2	4.52	5.9	1.22
207	3211	40	33	731	85.03	2.1	6.60	6.0	3.89
208	1617	58	50	384	37.71	1.9	12.16	6.0	1.40
209	1811	30	25	1954	176.51	1.4	8.12	6.3	1.14
210	3894	34	26	2101	34.01	2.6	7.59	5.9	0.81
211	2613	31	27	938	36.03	1.5	5.98	6.2	0.82
212	2932	56	39	623	47.78	2.5	3.72	6.1	3.78
213	1470	22	19	1518	18.04	1.5	10.45	6.0	0.78
214	2181	46	36	1812	76.07	1.7	7.69	6.1	1.03
215	2419	53	33	993	80.27	1.5	6.22	6.1	1.33
216	2547	41	32	810	74.09	1.8	6.89	6.1	1.59
217	2122	42	36	1370	140.43	1.5	7.05	6.0	1.38
218	1572	36	30	664	101.73	1.2	7.95	6.1	2.05
219	3545	58	51	1059	70.01	2.8	10.23	5.6	4.12
220	1486	25	19	590	78.36	1.1	7.39	5.9	0.99
221	3582	56	47	1319	50.93	2.4	6.60	5.9	2.61
222	2676	43	35	1098	94.85	1.5	5.66	6.1	3.51
223	2124	35	30	948	116.63	1.7	8.12	6.0	3.91
224	2618	35	30	945	18.28	2.5	9.62	5.7	0.87
225	1660	20	-17	715	50.52	1.4	8.83	5.8	1.60

INSTALL	EX_CA	EX_K	EX_NA	CEC	BASE_SAT	BS_MG	BS_CA	BS_K	BS_NA
201	5.99	1.02	0.05	12.04	67.36	8.55	50.04	3.37	0.39
202	5.57	0.92	0.06	10.45	72.45	9.70	53.36	3.80	0.59
203	6.37	1.03	0.05	11.75	73.39	9.70	54.45	3.79	0.45
204	3.62	1.29	0.11	21.16	53.63	6.09	40.97	6.06	0.51
205	3.58	0.99	0.09	20.55	53.04	5.81	41.96	4.83	0.45
206	9.96	1.04	0.07	16.60	74.33	7.44	60.22	6.22	0.45
207	16.54	1.76	0.09	27.54	80.61	14.11	59.66	6.50	0.34
208	8.68	0.69	0.10	14.07	77.92	10.00	62.26	4.92	0.74
209	10.44	1.48	0.08	17.23	76.27	6.62	60.59	8.63	0.43
210	7.90	0.91	0.08	19.43	50.02	4.19	40.76	4.66	0.41
211	7.76	1.00	0.06	15.72	61.61	5.24	49.53	6.43	0.41
212	15.47	2.15	0.11	26.53	81.06	14.27	58.25	8.13	0.41
213	5.14	0.83	0.12	17.51	39.24	4.47	29.36	4.74	0.68
214	9.61	0.95	0.07	17.54	66.49	5.90	54.76	5.40	0.42
215	9.95	0.90	0.05	15.04	81.92	9.03	66.38	6.17	0.33
216	11.23	1.32	0.10	19.13	74.93	8.44	59.06	6.92	0.51
217	8.77	1.06	0.07	15.33	73.64	9.04	57.22	6.90	0.48
218	7.87	1.01	0.08	13.96	79.43	14.76	56.91	7.16	0.59
219	16.60	3.84	0.13	38.25	64.37	10.69	43.27	10.08	0.34
220	5.85	1.06	0.07	11.93	66.85	8.36	48.92	8.96	0.61
221	15.75	3.23	0.12	36.65	59.33	7.13	43.01	8.84	0.34
222	17.32	3.00	0.12	32.04	74.75	11.02	53.92	9.44	0.36
223	16.30	3.10	0.11	30.56	76.79	12.65	53.45	10.32	0.37
224	6.34	0.92	0.07	22.38	36.67	3.38	28.35	4.14	0.31
225	6.63	1.05	0.06	17.10	54.70	9.30	38.90	6.19	0.32

INTERMOUNTAIN FOREST TREE NUTRITION COOPERATIVE

SOIL CHEMICAL PROPERTIES

INSTALL	TOTAL_N	MIN_N	C_MIN_N	TOTAL_P	AVAIL_P	CARBON	C_N	PH	EX_MG
226	1366	17	16	341	67.17	1.1	8.20	6.0	2.26
227	1385	25	21	209	60.95	1.4	10.74	5.9	2.04
228	1195	29	25	255	75.47	1.3	10.50	5.7	1.78
229	1638	45	36	484	78.48	1.5	9.12	5.7	2.31
230	909	23	19	554	35.05	1.0	11.62	5.6	0.96
231	3916	84	52	754	92.42	4.0	10.70	6.1	2.61
232	2747	69	48	537	54.32	2.7	10.03	5.9	2.71
233	2518	61	40	224	39.21	2.7	11.20	6.0	2.34
234	3115	68	36	272	52.13	2.0	6.96	5.9	1.96
235	3872	52	27	951	49.52	2.0	5.19	6.0	1.81
236	4802	75	52	686	88.63	4.3	8.90	6.0	2.87
237	3586	66	33	558	77.59	2.9	8.16	5.6	.
238	2630	62	37	1270	86.28	1.9	7.48	6.1	1.74
239	3014	71	48	860	128.31	3.8	15.40	6.0	.
240	1118	47	42	568	4.66	2.4	21.83	5.9	0.96
241	335	24	23	1132	126.47	1.0	28.21	5.7	.
242	700	52	37	876	131.90	1.4	21.13	5.9	.
243	1239	82	60	1445	122.52	2.9	23.86	5.9	.
244	3837	72	56	537	95.43	3.0	9.36	5.9	.
245	4220	69	49	542	107.20	2.9	6.70	6.0	.
246	3273	59	41	1242	42.68	2.9	8.85	6.6	.
247	1708	54	41	1596	49.65	1.9	11.93	6.1	.
248	1185	31	27	740	60.02	1.1	9.27	6.0	.
249	576	42	37	1020	51.14	1.4	24.77	5.9	.
250	1036	50	43	515	14.26	2.2	22.48	6.1	0.93

INSTALL	EX_CA	EX_K	EX_NA	CEC	BASE_SAT	BS_MG	BS_CA	BS_K	BS_NA
226	8.95	1.64	0.11	16.95	76.49	13.34	52.79	9.70	0.67
227	8.77	1.27	0.10	17.01	71.63	11.98	51.60	7.45	0.60
228	7.34	1.27	0.07	14.83	70.40	11.93	49.65	3.37	0.44
229	9.16	1.03	0.07	17.90	70.55	13.05	51.35	5.76	0.39
230	5.74	0.67	0.07	14.32	51.97	6.75	40.13	4.62	0.47
231	18.00	1.25	0.06	27.98	78.16	9.31	64.07	4.54	0.24
232	13.94	1.38	0.10	24.93	72.55	10.86	55.75	5.57	0.33
233	14.07	0.95	0.05	21.55	80.93	10.90	65.37	4.42	0.24
234	10.13	0.82	0.07	18.01	72.35	10.92	56.49	4.54	0.40
235	9.70	1.78	0.09	21.61	62.10	8.53	44.88	8.28	0.41
236	15.60	1.10	0.06	27.12	72.81	10.66	57.57	4.36	0.22
237	.	.	.	.	.	.	.	.	.
238	11.48	1.02	0.09	21.26	67.17	8.04	53.90	4.80	0.43
239	.	.	.	.	.	.	.	.	.
240	8.30	0.99	0.09	25.17	41.20	3.83	33.10	3.92	0.34
241
242
243
244
245
246
247
248
249
250	8.82	0.90	0.07	23.02	46.94	4.08	33.70	3.84	0.32


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*
*  DEFINITIONS OF VARIABLES ON THE DATA SET CONTAINING THE BACKDATED  *
*  DATA FOR EACH INDIVIDUAL TREE OF THE I.F.T.N.C. CONTROL PLOTS  *
*  OF INSTALLATIONS 201-245  *
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INSTALL  -----INSTALLATION NUMBER
PLOTNUM  -----PLOT NUMBER
TREE     -----TREE NUMBER
TPA      -----NUMBER OF TREES/ACRE A PLOT TREE REPRESENTS
SP       -----SPECIES
CRN_85   -----CROWN CLASS (1=DOM 2=CODOM 3=INTER 4=SUPP)
CR_BACK  -----CROWN RATIO AT TIME OF THINNING
CR_85    -----CROWN RATIO IN FALL 1985
INC_10YR -----DIAMETER INCREMENT FOR 10 YEAR PERIOD PRIOR
           TO THINNING
DIA_BACK -----DBH AT TIME OF THINNING
DIA_85   -----DBH IN FALL 1985
HT_BACK  -----TOTAL HEIGHT AT TIME OF THINNING
HT_85    -----TOTAL HEIGHT IN FALL 1985
CUT      -----CODE TO INDICATE A TREE REMOVED IN THINNING

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INDIVIDUAL TREE LISTING FOR IPTNC SITES ESTABLISHED IN 1981

GROWTH MEASUREMENTS, BACKDATED DATA AND STUMP COUNTS

CONTROL PLOTS ONLY

I N S T A L L	P L O T N U M	T R E E	T P A	S P	C R N 8 5	C R B A C K	C R 8 5	I N C R E A S E	D I A M E T E R	D I A M 8 5	H T B A C K	H T 8 5	C U T
								0 Y R	A K				
201	3	33	10	DF	2	30	42	0.48	8.47	9.39	46.5	53.8	0
201	3	34	10	DF	2	40	45	1.24	8.98	10.52	52.8	61.6	0
201	3	35	10	DF	2	30	38	0.84	9.25	10.24	44.9	53.3	0
201	3	36	10	PP	2	30	46	0.45	8.35	9.24	34.9	44.0	0
201	3	37	10	DF	2	60	66	0.76	8.78	9.87	42.4	49.1	0
201	3	38	10	DF	2	30	42	0.75	9.46	10.89	47.8	55.7	0
201	3	39	10	DF	2	30	42	0.74	9.08	10.44	48.1	54.8	0
201	3	40	10	DF	2	40	46	0.31	8.30	8.98	47.2	53.3	0
201	3	41	10	DF	2	20	26	0.70	8.70	9.51	46.3	53.7	0
201	3	42	10	DF	1	50	61	1.24	11.20	12.74	52.7	62.3	0
201	3	43	10	DF	2	30	37	0.69	8.25	9.05	46.7	53.1	0
201	3	44	10	DF	2	40	49	0.64	9.49	10.53	49.3	57.2	0
201	3	45	10	DF	2	30	41	0.71	9.31	9.99	43.8	50.6	0
201	3	46	10	PP	2	30	44	0.45	8.05	8.94	37.3	46.6	0
201	3	47	10	DF	2	50	57	0.70	7.90	8.38	29.7	35.7	0
201	3	48	10	DF	1	60	65	1.16	8.61	10.61	42.0	50.9	0
201	3	49	10	DF	2	40	47	1.03	8.19	9.37	46.8	55.5	0
201	3	50	10	DF	2	60	66	1.23	11.12	12.66	47.6	57.1	0
201	3	9991	230	DF	.	.	.	.	1.00	.	.	.	1
201	3	9992	320	DF	.	.	.	.	2.00	.	.	.	1
201	3	9993	200	DF	.	.	.	.	3.00	.	.	.	1
201	3	9994	150	DF	.	.	.	.	4.00	.	.	.	1
201	3	9995	80	DF	.	.	.	.	5.00	.	.	.	1
201	3	9996	100	DF	.	.	.	.	6.00	.	.	.	1
201	3	9997	30	DF	.	.	.	.	7.00	.	.	.	1
201	5	81	10	PP	2	40	48	0.51	8.43	9.07	42.4	52.7	0
201	5	82	10	DF	2	50	56	0.70	12.30	13.29	57.6	68.1	0
201	5	83	10	DF	2	50	58	0.59	12.12	12.87	57.7	67.7	0
201	5	84	10	DF	2	40	49	0.57	8.83	9.74	51.6	59.8	0
201	5	85	10	DF	2	40	49	0.76	13.32	14.55	62.2	73.0	0
201	5	86	10	DF	2	50	54	0.64	11.91	13.05	53.7	61.8	0
201	5	87	10	DF	2	60	66	1.04	12.26	13.66	59.5	69.4	0
201	5	88	10	DF	2	50	57	0.44	7.68	8.24	47.3	56.4	0
201	5	89	10	DF	2	50	53	0.62	10.42	11.13	56.3	65.4	0
201	5	90	10	DF	2	40	46	0.37	9.09	9.81	56.5	67.1	0
201	5	91	10	DF	2	30	37	0.43	9.08	9.66	55.0	63.9	0
201	5	92	10	DF	2	20	33	0.61	8.38	9.21	55.7	65.2	0
201	5	93	10	DF	2	30	36	0.45	8.75	9.41	50.7	58.6	0
201	5	94	10	DF	2	40	51	0.52	9.53	10.42	59.2	68.5	0
201	5	95	10	DF	2	30	41	0.51	10.76	11.45	59.0	68.4	0
201	5	96	10	DF	1	60	60	1.06	13.99	15.26	51.0	55.8	0
201	5	97	10	DF	2	30	44	0.87	10.30	11.36	57.0	66.7	0
201	5	98	10	DF	2	20	27	0.47	7.86	8.46	56.9	65.2	0
201	5	99	10	DF	2	50	55	0.61	7.83	8.79	54.9	63.5	0
201	5	100	10	DF	2	20	25	0.34	8.18	8.65	56.8	63.8	0
201	5	101	10	DF	2	30	40	0.45	7.90	8.54	48.3	52.8	0
201	5	102	10	L	1	20	35	0.77	10.81	11.85	71.2	83.9	0

INDIVIDUAL TREE LISTING FOR IFTNC SITES ESTABLISHED IN 1981

GROWTH MEASUREMENTS, BACKDATED DATA AND STUMP COUNTS

CONTROL PLOTS ONLY

I N S T A L L	P L O T N U M	T R E E	T P A	S P	C R N 8 5	C R B A C K	C R 8 5	I N C 1 0 Y R	D I A B A C K	D I A 8 5	H T B A C K	H T 8 5	C U T
201	5	103	10	L	2	20	33	0.58	9.30	9.98	54.4	62.1	0
201	5	104	10	DF	2	20	29	0.55	8.40	8.91	51.9	58.1	0
201	5	105	10	DF	2	30	41	0.60	8.05	8.88	50.5	58.4	0
201	5	106	10	DF	2	30	39	0.49	7.54	8.35	50.8	58.3	0
201	5	9991	320	DF	.	.	.	.	1.00	.	.	.	1
201	5	9992	470	DF	.	.	.	.	2.00	.	.	.	1
201	5	9993	320	DF	.	.	.	.	3.00	.	.	.	1
201	5	9994	130	DF	.	.	.	.	4.00	.	.	.	1
201	5	9995	130	DF	.	.	.	.	5.00	.	.	.	1
201	5	9996	60	DF	.	.	.	.	6.00	.	.	.	1

THIS LISTING IS ONLY AN EXAMPLE OF THE DATA FILE.

THE COMPLETE FILE CONTAINS 2,703 RECORDS FROM 90 CONTROL PLOTS.

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*
*           DEFINITIONS OF VARIABLES ON THE DATA SET           *
*   CONTAINING PLOT LEVEL INFORMATION OF THE BACKDATED DATA   *
*   FOR THE I.F.T.N.C. CONTROL PLOTS OF INSTALLATIONS 201-245 *
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INSTALL      -----INSTALLATION NUMBER
PLOTNUM      -----PLOT NUMBER
INV_DATE     -----DATE OF THINNING (1971 IN UNTHINNED STANDS)
TPA_PRE      -----TREES/ACRE BEFORE THINNING
TPA_POST     -----TREES/ACRE AFTER THINNING
TPA_85       -----TREES/ACRE IN FALL 1985
BA_BACK      -----BASAL AREA / ACRE BEFORE THINNING
BA_POST      -----BASAL AREA / ACRE AFTER THINNING
GBA_85       -----GROSS BASAL AREA / ACRE FALL 1985
NETBA_85     -----NET BASAL AREA / ACRE FALL 1985
VOL_POST     -----VOLUME / ACRE AFTER THINNING
GVOL_85      -----GROSS VOLUME / ACRE FALL 1985
NVOL_85      -----NET VOLUME / ACRE FALL 1985
RMSD_PRE     -----QUADRATIC MEAN DIAMETER BEFORE THINNING
RMSD_POS     -----QUADRATIC MEAN DIAMETER AFTER THINNING
RMSD_85      -----QUADRATIC MEAN DIAMETER IN FALL 1985
TOPHT_B      -----TOP HEIGHT JUST AFTER THINNING
TOPHT_85     -----TOP HEIGHT IN FALL 1985

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I.F.T.N.C. SUMMARY OF BACKDATED DATA AND GROWTH
CONTROL PLOTS OF THE 1981 SITES (201 - 245)

I N S T A L L	P L O T N U M	I N V E S T M E N T	T P A P R E	T P A O S T	T P A 8 5	B A C K	B A S E	G R O W T H	N E T 3 A 8 5
201	3	1973	1290	180	180	149.5	79.8	101.0	101.0
201	5	1973	1690	260	260	207.8	139.2	164.1	164.1
202	2	1973	1930	240	240	147.6	68.0	83.2	83.2
202	6	1973	1520	130	130	149.1	57.8	76.8	76.8
203	3	1975	748	180	180	130.2	100.3	118.7	118.7
203	4	1975	287	120	113	185.3	84.4	99.0	98.2
204	2	1972	2610	250	230	226.8	103.0	138.3	124.7
204	4	1972	3000	250	250	218.1	86.1	125.9	125.9
205	3	1973	1420	190	190	190.2	94.1	129.6	129.6
205	6	1973	1360	250	240	138.6	85.6	113.0	110.5
206	2	1972	1290	210	210	176.1	102.1	137.9	137.9
206	6	1972	1650	250	240	230.2	143.1	177.0	173.6
207	3	1975	410	220	210	163.7	121.3	135.4	132.1
207	5	1975	430	290	260	196.6	167.9	186.5	173.5
208	1	1971	100	100	100	145.5	145.5	167.2	167.2
208	6	1971	209	190	190	168.3	158.9	188.9	188.9
209	2	1970	550	150	140	156.8	115.3	133.3	126.7
209	4	1970	880	230	230	208.9	138.4	165.4	165.4
210	1	1971	270	270	250	123.0	123.0	144.7	143.5

I N S T A L L	P L O T N U M	V O L U M E	G R O W T H	N U T R I T I O N	R E S P O N S E	R E S P O N S E	R E S P O N S E	T O P H I C H T R Y	T O P H I C T R Y
201	3	1424.8	2080.0	2080.0	4.6	9.0	10.1	49.4	56.5
201	5	2952.8	3982.4	3982.4	4.7	9.9	10.8	57.6	68.1
202	2	1138.0	1653.4	1653.2	3.7	7.2	8.0	46.9	56.8
202	6	1039.8	1644.5	1644.5	4.2	9.0	10.4	49.4	60.2
203	3	2602.1	3329.7	3329.7	5.7	10.1	11.0	74.4	81.9
203	4	1963.3	2556.3	2548.7	10.9	11.4	12.6	66.5	73.7
204	2	2045.2	3502.5	3163.7	4.0	8.7	10.0	55.5	69.2
204	4	1617.9	3075.0	3075.0	3.7	7.9	9.6	53.1	71.2
205	3	2005.8	3512.9	3512.9	5.0	9.5	11.2	61.1	76.5
205	6	1746.4	2968.3	2905.5	4.3	7.9	9.2	55.9	72.3
206	2	2252.5	3810.6	3810.6	5.0	9.4	11.0	62.1	78.8
206	6	3330.3	5295.8	5200.4	5.1	10.2	11.5	67.3	87.5
207	3	2768.8	3528.3	3471.3	8.6	10.1	10.7	58.5	71.2
207	5	4317.5	5444.1	5104.8	9.2	10.3	11.1	71.1	81.1
208	1	5047.4	6255.2	6255.2	16.3	16.3	17.5	100.3	109.2
208	6	4617.4	5918.3	5918.3	12.1	12.4	13.5	85.6	94.0
209	2	3232.4	4364.1	4170.6	7.2	11.9	12.9	81.6	97.7
209	4	3643.4	5113.1	5113.1	6.6	10.5	11.5	73.2	87.6
210	1	2318.2	3328.0	3316.9	9.1	9.1	10.3	53.4	65.6

I.F.T.N.C. SUMMARY OF BACKDATED DATA AND GROWTH
CONTROL PLOTS OF THE 1981 SITES (201 - 245)

I N S T A L L	P L O T N U M	I N V - D A T E	T P A - P R E	T P A - P O S T	T P A - 8 5	B A - B A C K	B A - P O S T	G B A - 8 5	N E T B A - 8 5
210	4	1971	220	220	220	123.9	123.9	147.1	147.1
211	1	1971	460	460	460	142.7	142.7	190.8	190.8
211	6	1971	520	520	510	153.6	153.6	215.4	214.3
212	3	1972	830	180	180	144.1	92.4	107.6	107.6
212	6	1972	1860	190	190	173.0	68.7	84.5	84.5
213	1	1974	1230	140	120	286.0	101.5	116.4	102.6
213	4	1974	800	100	100	336.8	105.3	115.6	115.6
214	2	1976	1450	170	170	163.4	83.2	110.3	110.3
214	4	1976	1510	160	160	171.7	89.1	116.2	116.2
215	1	1976	2390	180	180	193.4	62.1	82.3	82.3
215	6	1976	2650	240	240	155.5	63.5	89.6	89.6
216	1	1972	1850	320	300	239.9	143.7	170.4	164.0
216	5	1972	1100	290	270	180.1	145.8	170.6	162.9
217	2	1970	1860	260	260	191.7	111.9	137.2	137.2
217	5	1970	1070	250	250	200.2	130.5	158.1	158.1
218	3	1976	420	170	170	132.8	90.8	109.2	109.2
218	6	1976	710	170	170	181.0	110.5	131.5	131.5
219	3	1975	1180	290	290	195.8	141.5	160.0	160.0
219	5	1975	780	220	220	121.4	94.1	109.0	109.0

I N S T A L L	P L O T N U M	V O L - P O S T	G V O L - 8 5	N V O L - 8 5	R M S D - P R E	R M S D - P O S	R M S D - 8 5	T O P H T - 8 5	T O P H T - 8 5
210	4	2849.5	4048.2	4045.5	10.2	10.2	11.1	63.6	77.2
211	1	2627.5	4436.1	4434.8	7.5	7.5	8.7	54.0	72.4
211	6	2794.9	4967.7	4948.2	7.4	7.4	8.8	51.3	67.9
212	3	2115.3	2739.0	2739.0	5.5	9.7	10.5	66.5	74.5
212	6	1484.2	2044.1	2044.1	4.1	8.1	9.0	58.7	66.9
213	1	3133.6	3938.1	3530.2	6.5	11.5	12.5	89.8	98.1
213	4	3182.7	3836.4	3836.4	8.3	13.9	14.6	88.0	96.6
214	2	1734.5	2648.8	2648.8	4.6	9.5	10.9	59.3	69.0
214	4	1858.8	2810.9	2810.9	4.6	10.1	11.5	62.5	71.4
215	1	1210.0	1796.5	1796.5	3.9	8.0	9.2	54.7	61.9
215	6	1104.3	1876.4	1876.4	3.3	7.0	8.3	45.9	57.9
216	1	3624.1	4882.7	4682.9	4.9	9.1	10.0	67.4	81.1
216	6	3553.2	4718.6	4505.3	5.5	9.6	10.5	64.4	81.7
217	2	2546.1	3564.1	3564.1	4.3	8.9	9.8	67.2	76.9
217	5	2936.9	4049.1	4049.1	5.9	9.8	10.8	68.1	77.4
218	3	1933.3	2393.6	2393.6	7.6	9.9	10.9	58.0	62.2
218	6	2776.3	3406.8	3406.8	6.8	10.9	11.9	72.0	75.4
219	3	3078.0	4063.9	4063.9	5.5	9.5	10.1	64.6	75.2
219	5	1745.2	2391.2	2391.2	5.3	8.9	9.5	50.1	59.8

I.F.T.N.C. SUMMARY OF BACKDATED DATA AND GROWTH
CONTROL PLOTS OF THE 1981 SITES (201 - 245)

I N S T A L L	P L O T N U M	I N V - D A T E	T P A - P R E	T P A - P O S T	T P A - 8 5	S A - B A C K	B A - P O S T	G B A - 8 5	N E T B A - 8 5	V O L - P O S T
220	2	1977	660	240	240	191.4	105.2	116.6	116.6	2416.4
220	5	1977	640	310	300	219.4	125.3	134.7	131.5	3012.7
221	1	1975	590	230	220	178.8	145.5	161.5	157.3	3480.3
221	5	1975	500	160	160	232.0	145.8	165.0	165.0	3858.2
222	2	1975	1340	380	380	181.4	115.9	137.6	137.6	2453.3
222	5	1975	1120	400	400	232.8	167.7	187.0	187.0	3480.4
223	1	1977	960	260	260	165.9	106.9	125.4	125.4	2348.2
223	5	1977	771	180	180	168.7	138.3	149.5	149.5	3941.1
224	1	1974	275	90	85	332.2	117.7	141.2	138.1	3961.9
224	4	1974	165	100	100	285.1	153.7	173.1	173.1	5519.5
225	2	1977	1070	160	160	240.1	91.5	109.5	109.5	2298.1
225	6	1977	950	160	160	241.7	117.9	130.2	130.2	3069.0
226	1	1971	750	130	130	164.2	89.3	114.3	114.3	2107.7
226	6	1971	1000	130	130	156.0	82.3	104.3	104.3	1669.0
227	3	1971	1070	120	120	167.6	81.8	97.9	97.9	1810.2
227	5	1971	1720	110	110	200.1	66.0	82.2	82.2	1528.5
228	3	1975	650	210	210	226.1	161.6	181.5	181.5	4370.2
228	5	1975	860	220	220	206.1	126.4	146.1	146.1	3200.0
229	2	1974	410	100	100	243.2	125.5	147.0	147.0	4000.1

I N S T A L L	P L O T N U M	G V O L - 8 5	N V O L - 8 5	R M S D - P R E	R M S D - P O S T	R M S D - 8 5	T O P H T - B	T O P H T - 8 5
220	2	2853.3	2853.3	7.3	9.0	9.4	68.2	75.2
220	5	3408.9	3332.8	7.9	8.6	9.0	73.4	70.7
221	1	4405.6	4317.2	7.5	10.8	11.4	71.4	81.5
221	5	4334.3	4834.3	9.2	12.9	13.8	76.9	85.7
222	2	3215.2	3215.2	5.0	7.5	8.1	58.2	65.7
222	5	4354.4	4354.4	6.2	8.8	9.3	58.6	67.7
223	1	2991.1	2991.1	5.6	8.7	9.4	63.3	69.2
223	5	4344.4	4344.4	6.3	11.9	12.3	65.6	87.4
224	1	5073.9	4992.5	14.9	15.5	17.3	100.5	108.3
224	4	6677.1	6677.1	17.8	16.8	17.8	112.7	121.4
225	2	2889.9	2889.9	6.4	10.2	11.2	69.9	74.7
225	6	3583.0	3583.0	6.8	11.6	12.2	75.7	81.1
226	1	3034.1	3034.1	6.3	11.2	12.7	67.9	78.0
226	6	2405.5	2405.5	5.3	10.8	12.1	57.2	66.3
227	3	2471.9	2471.9	5.4	11.2	12.2	60.4	69.5
227	5	2162.1	2162.1	4.5	10.5	11.7	62.9	72.1
228	3	5461.8	5461.8	3.0	11.9	12.6	78.0	85.1
228	5	4254.9	4254.9	6.6	10.3	11.0	66.4	76.9
229	2	4979.8	4979.8	10.4	15.2	16.4	90.9	98.1

I. F. I. N. C. SUMMARY OF BACKDATED DATA AND GROWTH
CONTROL PLOTS OF THE 1981 SITES (201 - 245)

I N S T A L L	P L O T N U M	I N V - D A T E	T P A - P R E	T P A - P O S T	T P A - P A S S	B A - B A C K	B A - P O S T	G B A - P A S S	N E T B A - P A S S	V O L - U M E
229	4	1974	490	120	120	205.9	124.6	146.0	146.0	3727.5
230	3	1972	950	150	150	219.2	111.0	132.9	132.9	3037.3
230	4	1972	475	115	115	254.0	133.3	151.3	151.3	4506.2
231	1	1970	610	190	190	178.3	107.6	130.7	130.7	2257.0
231	5	1970	420	160	160	127.5	86.0	101.4	101.4	1666.1
232	1	1972	1100	180	180	180.9	101.2	126.6	126.6	2254.1
232	6	1972	910	210	210	199.6	131.7	158.6	158.6	3173.4
233	3	1969	800	230	230	250.2	161.3	196.1	196.1	3990.8
233	4	1969	550	150	150	201.9	126.8	148.8	148.8	2616.3
234	1	1973	700	210	210	179.7	131.1	157.6	157.6	3206.0
234	5	1973	490	160	160	174.7	144.3	167.9	167.9	3810.7
235	1	1973	940	220	220	141.3	86.4	93.5	93.5	1851.1
235	4	1973	1620	390	360	185.3	110.6	120.9	116.9	2276.5
236	3	1971	240	240	240	167.7	167.7	182.3	132.3	4205.7
236	5	1971	570	310	310	171.5	139.9	155.3	155.3	3404.8
237	3	1978	360	250	250	263.6	174.5	188.3	188.3	5013.3
237	4	1978	290	220	220	208.7	155.9	168.9	168.9	4344.4
238	1	1969	870	260	260	54.5	41.1	68.4	68.4	456.5
238	6	1969	520	240	240	48.2	37.6	75.1	75.1	361.7

I N S T A L L	P L O T N U M	G V C L - P A S S	N V C L - P A S S	R M S D - P A S S	R M S D - P A S S	R M S D - P A S S	T O P H T - P A S S	T O P H T - P A S S
229	4	4622.4	4622.4	8.8	13.8	14.9	88.4	94.4
230	3	4107.4	4107.4	6.5	11.6	12.7	81.8	93.0
230	4	5457.5	5457.5	9.9	14.6	15.5	99.7	106.6
231	1	3246.7	3246.7	7.3	10.2	11.2	59.6	71.0
231	5	2336.0	2336.0	7.5	9.9	10.8	54.6	65.8
232	1	3261.4	3261.4	5.5	10.2	11.4	62.0	71.9
232	6	4397.6	4397.6	6.3	10.7	11.8	69.0	79.8
233	3	5742.6	5742.6	7.6	11.3	12.5	70.4	84.6
233	4	4312.1	4312.1	8.2	12.4	13.5	56.0	79.6
234	1	4424.4	4424.4	6.9	10.7	11.7	67.1	79.9
234	5	4992.3	4992.3	8.1	12.9	13.9	73.7	84.3
235	1	2236.0	2236.0	5.3	8.5	9.8	59.8	67.4
235	4	2796.4	2714.3	4.6	7.2	7.7	58.9	66.4
236	3	4943.8	4943.8	11.3	11.3	11.8	72.4	79.2
236	5	4045.9	4045.9	7.4	9.1	9.6	69.7	75.7
237	3	5560.3	5560.3	11.6	11.3	11.8	83.1	86.2
237	4	4809.3	4809.3	11.5	11.4	11.9	84.9	85.0
238	1	1233.6	1233.6	3.4	5.4	6.9	28.0	48.0
238	6	1170.7	1170.7	4.1	5.4	7.6	24.6	43.7

I.F.T.N.C. SUMMARY OF BACKDATED DATA AND GROWTH
CONTROL PLOTS OF THE 1981 SITES (201 - 245)

I N S T A L L	P L O T N U M	I N V E N T O R Y D A T E	T P A P R E	T P A P O S T	T P A P A B A C K	B A P O S T	B A P O S T	G B A B A C K	N E T B A C K	V O L U M E
239	2	1974	167	127	120	179.3	151.4	165.1	163.3	4417.5
239	6	1974	267	190	170	243.8	184.7	202.1	195.8	5562.3
240	2	1975	1820	410	410	243.2	164.3	206.2	206.2	3682.4
240	4	1975	920	280	280	184.5	143.6	174.6	174.6	3379.2
241	3	1972	1060	230	230	126.8	70.5	89.4	89.4	1424.1
241	4	1972	2210	270	270	176.3	95.2	115.3	115.3	2002.5
242	2	1971	400	400	400	115.6	115.6	130.5	130.5	2644.5
242	6	1971	390	390	390	154.5	154.5	167.9	167.9	3704.1
243	1	1966	960	220	200	145.3	86.4	114.6	107.0	1856.0
243	6	1966	500	230	220	146.8	123.6	160.0	155.4	3167.8
244	3	1971	180	180	180	253.6	253.6	278.2	278.2	8556.0
244	6	1971	220	220	220	239.0	239.0	263.4	263.4	6138.4
245	3	1971	220	220	200	157.5	157.5	180.5	174.3	2684.0
245	5	1971	330	330	310	133.6	133.6	153.5	147.3	2201.4

I N S T A L L	P L O T N U M	G V O L U M E	N V O L U M E	R M S D I S P E N S E	R M S D I S P E N S E	S I D E D I S P E N S E	T O P H I C H T R Y	T O P H I C H T R Y
239	2	5090.2	5050.5	14.0	14.8	15.8	88.7	94.0
239	6	6400.9	6198.1	12.9	13.4	14.5	83.7	87.5
240	2	5412.6	5412.6	4.9	3.6	9.6	64.5	76.5
240	4	4879.7	4879.7	6.1	9.7	10.7	68.7	81.3
241	3	2021.0	2021.0	4.7	7.5	8.4	54.0	60.0
241	4	2732.0	2732.0	3.8	8.0	8.8	53.9	67.6
242	2	3312.6	3312.6	7.3	7.3	7.7	62.2	69.8
242	6	4438.7	4438.7	8.5	8.5	8.9	72.1	79.4
243	1	2882.6	2707.5	5.3	8.5	9.9	61.4	73.6
243	6	4754.9	4631.5	7.3	9.9	11.4	75.1	87.9
244	3	10217.2	10217.2	16.1	16.1	16.8	102.3	112.7
244	6	7444.6	7444.6	14.1	14.1	14.8	80.3	88.7
245	3	3669.2	3565.7	11.5	11.5	12.6	49.8	59.7
245	5	2920.7	2813.0	8.6	8.6	9.3	48.8	57.2

SECTION IV

Summary Characteristics for all Douglas-fir Installations

PLOT SUMMARY REPORT

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

TREATMENT	PLOT NUMBER					
	1	2	3	4	5	6
	200 #	400 #	CONT	400 #	CONT	200 #
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	20	15	25	10	15	20
ASPECT	260	290	320	105	15	75
DOUGLAS-FIR SITE INDEX	62.5	53.6	62.8	62.1	58.9	65.9
VEGETATION SERIES	ABGR	ABGR	AEGR	ABGR	ABGR	ABGR
PARENT MATERIAL	GRAN	GRAN	GRAN	GRAN	GRAN	GRAN
ASH DEPTH (IN)	0	0	0	0	0	0
SOIL DEPTH (IN)	>24	>24	>24	>24	>24	>24
TOTAL NITROGEN (PPM)	1632	1363	1549	1740	1535	1941
TOTAL PHOSPHORUS (PPM)	606	723	502	853	701	781
CARBON (%)	1.2	1.3	1.4	1.3	1.2	1.6
MINERALIZABLE NITROGEN (PPM)	23	23	20	19	18	36
COARSE FRAGMENTS (%)	20.2	15.0	16.1	14.8	23.5	14.4
CORRECTED MINERALIZABLE N	19	19	17	16	14	31
MENSURATIONAL CHARACTERISTICS:						
AT TIME OF TREATMENT (1981)	STAND AGE = 59					
LIVE TREES PER ACRE	160	160	180	300	260	310
LIVE BASAL AREA (SQ. FT/A)	97.8	72.0	88.8	145.1	146.0	132.2
LIVE TOTAL VOLUME (CU. FT/A)	2084	1304	1723	3753	3388	3014
CROWN COMPETITION FACTOR	113	81	103	171	164	140
RELATIVE DENSITY INDEX	30.1	23.9	28.8	47.3	45.8	44.5
MEAN DIAMETER (IN)	10.6	9.1	9.5	9.4	10.1	8.8
SITE HEIGHT (FEET)	61.0	50.7	54.0	73.1	64.8	61.2
SPECIES COMPOSITION (% OF SA)						
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	133	173	148
RELATIVE DENSITY INDEX	31.7	26.0	30.2	50.3	48.0	46.5
MEAN DIAMETER (IN)	11.0	9.6	9.8	9.3	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	2030	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	10.3	9.4
SITE HEIGHT (FEET)	65.2	54.5	58.1	78.1	69.5	65.9
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
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	2.1	0.0	0.0

PLOT SUMMARY REPORT

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

TREATMENT	PLOT NUMBER					
	1	2	3	4	5	6
	400 #	CONT	200 #	400 #	200 #	CONT
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	10	45	35	10	45	30
ASPECT	290	340	330	320	330	275
DOUGLAS-FIR SITE INDEX	51.5	38.9	59.6	60.6	58.4	66.3
VEGETATION SERIES	PSME	PSNE	PSME	PSME	PSME	PSME
PARENT MATERIAL	GRAN	GRAN	GRAN	GRAN	GRAN	GRAN
ASH DEPTH (IN)	0	0	0	0	0	0
SOIL DEPTH (IN)	>24	>24	12-24	>24	12-24	>24
TOTAL NITROGEN (PPM)	1864	1510	1221	1243	1091	1630
TOTAL PHOSPHORUS (PPM)	264	462	344	275	427	363
CARBON (%)	1.1	1.4	1.1	1.0	1.2	1.2
MINERALIZABLE NITROGEN (PPM)	25	15	22	17	16	27
COARSE FRAGMENTS (%)	21.1	30.3	33.0	31.8	31.5	38.7
CORRECTED MINERALIZABLE N	19	11	15	12	11	17
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	62.7	44.0	51.9
LIVE TOTAL VOLUME (CU. FT/A)	1529	1359	1439	1249	861	1270
CROWN COMPETITION FACTOR	87	91	95	30	56	74
RELATIVE DENSITY INDEX	26.5	26.1	27.5	23.3	16.0	20.3
MEAN DIAMETER (IN)	8.7	7.4	7.8	8.9	7.6	9.3
SITE HEIGHT (FEET)	49.3	53.9	53.0	48.8	48.9	56.9
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	58.4	97.7	88.4	77.9	94.5	92.9
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	27.7	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)	97.0	83.2	93.0	89.3	58.6	76.8
LIVE TOTAL VOLUME (CU. FT/A)	2050	1653	1820	1736	1191	1645
CROWN COMPETITION FACTOR	103	104	110	99	70	98
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
SITE HEIGHT (FEET)	54.8	56.8	56.3	53.5	52.4	60.2
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	0	0	0
TOPKILL VOLUME (CU. FT/A)	0.0	0.2	0.0	0.0	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
TREATMENT	200 #	400 #	CONT	CONT	400 #	200 #
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	30	15	25	25	25	25
ASPECT	340	320	30	110	140	90
DOUGLAS-FIR SITE INDEX	66.9	49.1	60.8	63.1	52.7	53.0
VEGETATION SERIES	ABGR	ABGR	ABGR	ABGR	ABGR	ABGR
PARENT MATERIAL	GRAN	GRAN	GRAN	GRAN	GRAN	GRAN
ASH DEPTH (IN)	0	0	0	0	0	0
SOIL DEPTH (IN)	>24	>24	>24	>24	>24	>24
TOTAL NITROGEN (PPM)	1459	1647	640	1910	1214	689
TOTAL PHOSPHORUS (PPM)	858	932	1118	804	585	637
CARBON (%)	1.6	1.2	1.5	1.3	1.0	1.1
MINERALIZABLE NITROGEN (PPM)	20	21	21	22	16	15
COARSE FRAGMENTS (%)	16.0	9.3	13.2	10.3	8.3	10.1
CORRECTED MINERALIZABLE N	17	19	18	20	15	14
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	10.9	10.4	11.6	10.0	10.6
SITE HEIGHT (FEET)	58.6	75.2	78.6	68.8	70.7	70.1
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	73.7	92.9	77.0	68.5	85.8	74.1
GRAND FIR	0.0	7.1	8.7	7.8	14.2	0.0
WESTERN LARCH	0.0	0.0	14.3	0.0	0.0	0.0
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)	10.6	11.4	10.7	12.0	10.4	11.1
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
4 YEARS AFTER TREATMENT (1985)						
LIVE TREES PER ACRE	170	130	180	113	190	200
LIVE BASAL AREA (SQ. FT/A)	111.8	97.5	118.7	98.2	117.5	143.1
LIVE TOTAL VOLUME (CU. FT/A)	2463	2729	3330	2549	2927	3677
CROWN COMPETITION FACTOR	117	107	130	95	135	142
RELATIVE DENSITY INDEX	33.7	28.5	35.8	27.6	36.0	42.3
MEAN DIAMETER (IN)	11.0	11.7	11.0	12.6	10.6	11.5
SITE HEIGHT (FEET)	62.0	78.3	81.9	73.7	74.4	74.7
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	0	0
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	1.6	0.0

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
TREATMENT	400 #	CONT	200 #	CONT	400 #	200 #
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	30	30	35	45	25	35
ASPECT	240	190	215	230	155	210
DOUGLAS-FIR SITE INDEX	84.2	85.9	80.4	81.2	75.4	75.3
VEGETATION SERIES	ABGR	ABGR	ABGR	ABGR	ABGR	ABGR
PARENT MATERIAL	ASH/M	ASH/M	ASH/M	ASH/M	ASH/M	ASH/M
ASH DEPTH (IN)	3-12	3-12	3-12	3-12	3-12	3-12
SOIL DEPTH (IN)	>24	>24	>24	>24	>24	>24
TOTAL NITROGEN (PPM)	1780	2645	2413	727	2541	3171
TOTAL PHOSPHORUS (PPM)	871	481	517	386	1034	825
CARBON (%)	1.7	1.6	1.6	1.4	1.7	1.8
MINERALIZABLE NITROGEN (PPM)	26	31	34	29	27	33
COARSE FRAGMENTS (%)	11.7	7.2	8.7	6.7	6.8	8.4
CORRECTED MINERALIZABLE N	23	29	31	27	25	31
MENSURATIONAL CHARACTERISTICS:						
AT TIME OF TREATMENT (1981)	STAND AGE = 41					
LIVE TREES PER ACRE	260	250	230	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	39.8	38.8	40.6	34.6	26.7	28.5
MEAN DIAMETER (IN)	9.2	9.3	8.9	8.6	9.0	8.5
SITE HEIGHT (FEET)	70.6	67.5	69.5	64.7	67.5	63.7
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	92.6	94.3	78.4	100.0	74.7	81.1
GRAND FIR	7.3	5.7	21.6	0.0	25.3	18.9
2 YEARS AFTER TREATMENT (1983)						
LIVE TREES PER ACRE	260	250	270	250	180	210
LIVE BASAL AREA (SQ. FT/A)	139.6	129.0	136.5	114.0	94.0	95.9
CROWN COMPETITION FACTOR	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
SITE HEIGHT (FEET)	78.1	68.8	75.3	71.1	74.3	69.9
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	86	0	52	159
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

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
TREATMENT	400 #	200 #	CONT	400 #	200 #	CONT
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	25	15	10	5	10	10
ASPECT	20	20	20	180	290	190
DOUGLAS-FIR SITE INDEX	88.0	93.9	84.5	94.3	78.1	79.7
VEGETATION SERIES	THPL	THPL	THPL	ABGR	ABGR	ABGR
PARENT MATERIAL	ASH/M	ASH/M	ASH/M	ASH/M	ASH/M	ASH/M
ASH DEPTH (IN)	>12	>12	>12	>12	>12	>12
SOIL DEPTH (IN)	>24	>24	>24	>24	>24	>24
TOTAL NITROGEN (PPM)	2257	2996	3441	3434	3628	3238
TOTAL PHOSPHORUS (PPM)	1023	546	370	725	1081	1076
CARBON (%)	1.8	1.7	1.6	1.7	2.6	1.8
MINERALIZABLE NITROGEN (PPM)	32	38	31	35	33	34
COARSE FRAGMENTS (%)	8.3	7.4	7.2	8.7	6.0	0.0
CORRECTED MINERALIZABLE N	29	35	29	32	31	34
MENSURATIONAL CHARACTERISTICS:						
AT TIME OF TREATMENT (1981)	STAND AGE = 41					
LIVE TREES PER ACRE	240	220	190	210	270	250
LIVE BASAL AREA (SQ. FT/A)	143.4	120.6	106.5	80.4	121.1	98.0
LIVE TOTAL VOLUME (CU. FT/A)	3949	3283	2640	1771	3102	2380
CROWN COMPETITION FACTOR	172	146	129	105	150	113
RELATIVE DENSITY INDEX	44.3	38.1	33.4	27.8	40.2	33.7
MEAN DIAMETER (IN)	10.5	10.0	10.1	8.4	9.1	8.5
SITE HEIGHT (FEET)	71.7	73.3	70.9	61.9	70.3	66.2
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	65.2	86.5	37.3	84.7	74.3	65.2
GRAND FIR	22.0	13.5	12.7	15.3	14.5	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	35.7
MEAN DIAMETER (IN)	11.1	10.6	10.7	9.0	9.6	8.8
DEAD TREES PER ACRE	0	0	0	10	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	4.4	0.0	0.0
4 YEARS AFTER TREATMENT (1985)						
LIVE TREES PER ACRE	240	220	190	200	270	240
LIVE BASAL AREA (SQ. FT/A)	176.9	148.0	129.6	101.6	150.0	110.5
LIVE TOTAL VOLUME (CU. FT/A)	5356	4475	3513	2461	4203	2906
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
SITE HEIGHT (FEET)	79.0	81.0	76.5	70.4	77.8	72.3
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
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

PLOT SUMMARY REPORT

INSTALLATION 206 CARIBEL
 REGION: NORTHERN IDAHO
 LEGAL DESCRIPTION: T34N R4E

OWNERSHIP: IDL
 SECTION 36 MERIDIAN: BOISE

	PLOT NUMBER					
	1	2	3	4	5	6
TREATMENT	200 #	CONT	400 #	400 #	200 #	CONT
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	5	5	0	5	5	5
ASPECT	245	310	0	120	106	50
DOUGLAS-FIR SITE INDEX	78.8	86.4	81.5	79.2	78.9	81.6
VEGETATION SERIES	THPL	THPL	THPL	THPL	THPL	THPL
PARENT MATERIAL	ASH/L	ASH/L	ASH/L	ASH/L	ASH/L	ASH/L
ASH DEPTH (IN)	>12	>12	>12	>12	>12	>12
SOIL DEPTH (IN)	>24	>24	>24	>24	>24	>24
TOTAL NITROGEN (PPM)	2512	2448	2631	2754	2510	2762
TOTAL PHOSPHORUS (PPM)	682	445	485	616	754	971
CARBON (%)	1.2	1.1	1.0	1.2	1.3	1.3
MINERALIZABLE NITROGEN (PPM)	20	21	21	23	25	55
COARSE FRAGMENTS (%)	20.1	16.3	17.3	8.2	12.6	15.6
CORRECTED MINERALIZABLE N	16	17	17	21	22	46
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	3049	3150	5535	3941	4332
CROWN COMPETITION FACTOR	153	140	137	241	184	179
RELATIVE DENSITY INDEX	44.9	37.3	37.5	65.1	50.8	48.1
MEAN DIAMETER (IN)	10.9	10.2	10.9	10.1	9.7	10.8
SITE HEIGHT (FEET)	82.8	72.5	72.0	75.9	72.1	80.5
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	68.1	92.8	94.3	71.8	82.4	59.6
GRAND FIR	1.1	6.6	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	148	145	258	198	189
RELATIVE DENSITY INDEX	47.7	39.7	39.8	69.1	54.5	50.5
MEAN DIAMETER (IN)	11.3	10.6	11.4	10.5	10.1	11.1
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
4 YEARS AFTER TREATMENT (1985)						
LIVE TREES PER ACRE	230	210	180	370	310	240
LIVE BASAL AREA (SQ. FT/A)	170.3	137.9	140.6	239.4	186.0	173.6
LIVE TOTAL VOLUME (CU. FT/A)	5036	3811	3904	6978	5063	5200
CROWN COMPETITION FACTOR	173	155	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
SITE HEIGHT (FEET)	90.6	78.8	78.8	82.9	80.6	87.4
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
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

PLOT SUMMARY REPORT

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

TREATMENT	PLOT NUMBER					
	1	2	3	4	5	6
	400 #	200 #	CONT	400 #	CONT	200 #
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	15	15	30	10	25	15
ASPECT	335	330	280	330	340	290
DOUGLAS-FIR SITE INDEX	64.1	82.5	62.3	63.4	73.0	78.8
VEGETATION SERIES	ABGR	ABGR	ABGR	ABGR	ABGR	ABGR
PARENT MATERIAL	BSALT	BSALT	BSALT	BSALT	BSALT	BSALT
ASH DEPTH (IN)	+	0	+	+	+	0
SOIL DEPTH (IN)	<12	12-24	12-24	<12	12-24	12-24
TOTAL NITROGEN (PPM)	3365	3353	3826	3862	3175	1687
TOTAL PHOSPHORUS (PPM)	635	830	742	694	916	569
CARBON (%)	1.6	1.7	2.7	2.4	2.6	1.4
MINERALIZABLE NITROGEN (PPM)	35	44	37	51	49	25
COARSE FRAGMENTS (%)	7.8	28.1	10.7	29.2	15.8	10.9
CORRECTED MINERALIZABLE N	32	32	33	36	41	22
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	50.8	38.4	43.6	53.3	46.5
MEAN DIAMETER (IN)	10.2	10.9	10.1	9.8	10.4	9.8
SITE HEIGHT (FEET)	67.0	78.6	65.1	66.6	73.8	68.8
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	52.0	59.4	70.7	82.5	48.5	34.9
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	144.3
CROWN COMPETITION FACTOR	189	182	139	162	170	168
RELATIVE DENSITY INDEX	57.1	53.4	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	191.3	132.1	155.3	173.5	147.0
LIVE TOTAL VOLUME (CU. FT/A)	4899	5571	3471	3988	5105	3983
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
SITE HEIGHT (FEET)	74.2	86.1	71.2	73.0	79.4	72.6
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
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

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
TREATMENT	CONT	400 #	200 #	400 #	200 #	CONT
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	10	10	15	10	20	25
ASPECT	130	170	170	210	230	280
DOUGLAS-FIR SITE INDEX	72.4	83.9	70.7	69.2	55.6	54.8
VEGETATION SERIES	ABGR	ABGR	ABGR	ABGR	ABGR	ABGR
PARENT MATERIAL	ASH/L	ASH/L	ASH/L	ASH/L	ASH/L	ASH/L
ASH DEPTH (IN)	+	+	+	+	+	+
SOIL DEPTH (IN)	>24	12-24	<12	12-24	>24	<12
TOTAL NITROGEN (PPM)	1635	1378	1958	2442	1273	964
TOTAL PHOSPHORUS (PPM)	378	435	489	363	363	278
CARBON (%)	2.0	2.3	2.3	1.8	1.5	1.3
MINERALIZABLE NITROGEN (PPM)	77	72	75	59	35	29
COARSE FRAGMENTS (%)	0.0	13.2	15.2	19.5	18.6	8.9
CORRECTED MINERALIZABLE N	66	63	64	48	29	27
MENSURATIONAL CHARACTERISTICS:						
AT TIME OF TREATMENT (1981)	STAND AGE = 88					
LIVE TREES PER ACRE	100	120	150	130	210	190
LIVE BASAL AREA (SQ. FT/A)	155.9	207.3	216.4	167.8	209.1	175.5
LIVE TOTAL VOLUME (CU. FT/A)	5708	7884	7666	5675	7005	5357
CROWN COMPETITION FACTOR	139	180	191	157	206	179
RELATIVE DENSITY INDEX	37.9	49.1	53.7	42.8	56.9	48.6
MEAN DIAMETER (IN)	16.9	17.8	16.3	15.4	13.5	13.0
SITE HEIGHT (FEET)	106.2	114.4	103.3	100.2	99.7	90.6
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	100.0	100.0	89.9	100.0	94.6	94.4
GRAND FIR	0.0	0.0	0.0	0.0	0.0	5.6
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	43.8	58.5	50.1
MEAN DIAMETER (IN)	17.2	18.1	16.6	15.6	13.8	13.3
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
4 YEARS AFTER TREATMENT (1985)						
LIVE TREES PER ACRE	100	120	150	120	210	190
LIVE BASAL AREA (SQ. FT/A)	167.2	221.3	232.8	174.7	224.3	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
SITE HEIGHT (FEET)	109.2	117.8	107.0	102.4	102.8	94.0
DEAD TREES PER ACRE	0	0	0	10	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	3.9	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	112	0	0
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

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
TREATMENT	200 #	CONT	400 #	CONT	400 #	200 #
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	30	35	20	35	30	20
ASPECT	65	36	98	68	38	60
DOUGLAS-FIR SITE INDEX	78.3	68.2	68.1	65.5	67.8	70.8
VEGETATION SERIES	PSME	PSME	PSME	PSME	PSME	ABG3
PARENT MATERIAL	BSALT	GTILL	BSALT	GTILL	GTILL	GTILL
ASH DEPTH (IN)	<3	<3	<3	<3	<3	<3
SOIL DEPTH (IN)	>24	>24	12-24	>24	>24	>24
TOTAL NITROGEN (PPM)	1702	2136	1243	1718	2280	1784
TOTAL PHOSPHORUS (PPM)	1666	1645	1547	1336	2310	3220
CARBON (%)	1.6	1.3	1.5	1.3	1.3	1.4
MINERALIZABLE NITROGEN (PPM)	27	30	27	28	36	32
COARSE FRAGMENTS (%)	10.8	20.7	23.0	18.0	21.7	13.9
CORRECTED MINERALIZABLE N	24	24	21	23	28	28
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	10.9	10.9	11.8	12.6
SITE HEIGHT (FEET)	102.3	92.4	78.8	82.7	85.9	91.7
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	100.0	100.0	100.0	100.0	100.0	94.1
WESTERN LARCH	0.0	0.0	0.0	0.0	0.0	5.9
2 YEARS AFTER TREATMENT (1983)						
LIVE TREES PER ACRE	170	150	190	230	210	140
LIVE BASAL AREA (SQ. FT/A)	192.4	127.3	132.0	157.1	167.1	129.0
CROWN COMPETITION FACTOR	189	135	150	180	183	131
RELATIVE DENSITY INDEX	50.7	36.0	39.3	47.0	48.1	35.8
MEAN DIAMETER (IN)	14.4	12.5	11.3	11.2	12.1	13.0
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
4 YEARS AFTER TREATMENT (1985)						
LIVE TREES PER ACRE	170	140	190	230	210	140
LIVE BASAL AREA (SQ. FT/A)	201.7	126.7	140.5	165.4	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)	14.7	12.9	11.6	11.5	12.5	13.4
SITE HEIGHT (FEET)	108.0	97.7	84.1	87.5	92.3	98.1
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	194	0	0	0	0
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

PLOT SUMMARY REPORT

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

TREATMENT	PLOT NUMBER					
	1	2	3	4	5	6
	CONT	200 #	400 #	CONT	200 #	400 #
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	35	30	30	25	25	20
ASPECT	300	330	310	280	315	305
DOUGLAS-FIR SITE INDEX	61.4	67.1	76.4	77.6	80.9	73.7
VEGETATION SERIES	PSME	PSME	PSME	ABGR	ABGR	ABGR
PARENT MATERIAL	GRAN	GRAN	GRAN	GRAN	GRAN	GRAN
ASH DEPTH (IN)	+	<3	+	+	+	<3
SOIL DEPTH (IN)	<12	12-24	12-24	12-24	12-24	12-24
TOTAL NITROGEN (PPM)	1726	4579	4979	4415	4298	3368
TOTAL PHOSPHORUS (PPM)	1831	1833	1970	2558	2246	2167
CARBON (%)	2.5	2.9	3.2	2.5	2.6	2.1
MINERALIZABLE NITROGEN (PPM)	26	40	38	29	35	36
COARSE FRAGMENTS (%)	12.6	37.8	24.7	19.4	24.7	15.6
CORRECTED MINERALIZABLE N	23	25	29	23	27	30
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	158.8	146.4	133.0	139.0	139.7
LIVE TOTAL VOLUME (CU. FT/A)	2830	3635	3543	3442	3689	3671
CROWN COMPETITION FACTOR	148	182	154	150	157	159
RELATIVE DENSITY INDEX	43.1	54.6	45.9	41.0	45.4	43.9
MEAN DIAMETER (IN)	9.5	9.5	10.2	10.5	9.4	10.1
SITE HEIGHT (FEET)	60.5	62.5	70.6	72.0	77.0	77.6
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	80.2	74.9	75.2	97.8	82.1	94.2
WESTERN LARCH	0.0	0.0	0.0	2.2	2.5	3.1
LODGEPOLE PINE	0.0	0.0	3.9	0.0	12.1	2.7
PONDEROSA PINE	19.8	25.1	20.9	0.0	3.3	0.0
2 YEARS AFTER TREATMENT (1983)						
LIVE TREES PER ACRE	250	340	250	220	290	250
LIVE BASAL AREA (SQ. FT/A)	136.7	178.5	150.7	139.4	146.7	149.0
CROWN COMPETITION FACTOR	150	191	157	156	164	168
RELATIVE DENSITY INDEX	43.2	57.0	46.5	42.5	47.3	46.1
MEAN DIAMETER (IN)	10.0	9.8	10.5	10.8	9.6	10.5
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	147.0	147.4	140.4
LIVE TOTAL VOLUME (CU. FT/A)	3317	4214	3856	4046	4179	3950
CROWN COMPETITION FACTOR	155	191	154	161	163	156
RELATIVE DENSITY INDEX	44.8	55.9	45.0	44.2	46.6	42.2
MEAN DIAMETER (IN)	10.3	10.3	10.9	11.1	10.0	11.1
SITE HEIGHT (FEET)	65.6	68.8	76.8	77.1	82.4	83.7
DEAD TREES PER ACRE	20	30	30	0	20	40
DEAD BASAL AREA (SQ. FT/A)	1.2	9.5	11.8	0.0	5.8	15.9
DEAD TOTAL VOLUME (CU. FT/A)	11	183	293	0	138	394
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	2.7	4.0	1.8

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
TREATMENT	CONT	200 #	400 #	400 #	200 #	CONT
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	35	35	45	35	35	35
ASPECT	115	150	140	140	170	140
DOUGLAS-FIR SITE INDEX	87.8	79.0	94.1	95.7	89.6	85.8
VEGETATION SERIES	ABGR	THPL	THPL	THPL	ABGR	ABGR
PARENT MATERIAL	GTILL	GTILL	GTILL	GTILL	GTILL	GTILL
ASH DEPTH (IN)	<3	<3	<3	<3	<3	<3
SOIL DEPTH (IN)	>24	>24	>24	>24	>24	>24
TOTAL NITROGEN (PPM)	2571	2335	2721	2143	2886	3022
TOTAL PHOSPHORUS (PPM)	932	1060	900	994	767	972
CARBON (%)	1.5	1.5	1.7	1.4	1.6	1.6
MINERALIZABLE NITROGEN (PPM)	31	33	34	24	30	32
COARSE FRAGMENTS (%)	17.2	12.7	13.9	9.8	11.8	9.6
CORRECTED MINERALIZABLE N	25	29	29	21	26	29
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
SITE HEIGHT (FEET)	65.7	64.4	64.5	69.7	66.6	60.8
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	99.2	98.3	90.9	94.9	86.1	97.2
GRAND FIR	0.0	0.0	0.0	0.0	2.4	0.0
WESTERN LARCH	0.0	1.7	0.0	0.0	0.0	0.0
LODGEPOLE PINE	0.0	0.0	0.0	1.4	0.0	0.0
WESTERN WHITE PINE	0.0	0.0	0.0	2.5	0.0	0.6
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	8.1	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	214.3
LIVE TOTAL VOLUME (CU. FT/A)	4435	4854	3971	4664	4972	4948
CROWN COMPETITION FACTOR	229	241	196	201	236	253
RELATIVE DENSITY INDEX	64.6	67.9	55.9	54.7	68.9	72.3
MEAN DIAMETER (IN)	8.7	8.9	8.8	11.1	9.1	8.8
SITE HEIGHT (FEET)	70.9	70.1	72.4	75.6	72.5	67.7
DEAD TREES PER ACRE	0	20	80	140	20	10
DEAD BASAL AREA (SQ. FT/A)	0.0	4.7	19.9	36.2	2.8	1.1
DEAD TOTAL VOLUME (CU. FT/A)	0	91	430	812	42	18
TOPKILL VOLUME (CU. FT/A)	1.3	1.8	2.0	0.0	1.6	1.8

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
TREATMENT	400 #	200 #	CONT	400 #	200 #	CONT
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	55	50	50	55	45	50
ASPECT	325	305	310	310	320	335
DOUGLAS-FIR SITE INDEX	51.5	61.2	57.9	60.9	53.1	46.6
VEGETATION SERIES	ABGR	ABGE	PSME	PSME	ABGR	ABGR
PARENT MATERIAL	BSALT	BSALT	BSALT	BSALT	BSALT	BSALT
ASH DEPTH (IN)	0	0	0	0	0	0
SOIL DEPTH (IN)	<12	<12	<12	<12	<12	<12
TOTAL NITROGEN (PPM)	3339	3151	2504	2145	2938	3512
TOTAL PHOSPHORUS (PPM)	564	532	535	970	594	540
CARBON (%)	2.6	2.5	3.1	2.4	2.2	2.0
MINERALIZABLE NITROGEN (PPM)	51	52	62	51	56	61
COARSE FRAGMENTS (%)	26.0	33.0	29.4	33.8	25.7	27.3
CORRECTED MINERALIZABLE N	38	35	44	34	41	44
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)	1613	2090	2349	1956	1532	1642
CROWN COMPETITION FACTOR	89	109	111	102	91	87
RELATIVE DENSITY INDEX	24.7	29.9	30.9	28.5	25.8	24.9
MEAN DIAMETER (IN)	8.3	8.8	10.0	9.1	7.7	8.3
SITE HEIGHT (FEET)	62.0	64.9	70.1	63.6	60.3	62.9
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	99.6	87.9	84.5
LIVE TOTAL VOLUME (CU. FT/A)	2011	2530	2739	2414	2005	2044
CROWN COMPETITION FACTOR	101	122	123	114	103	102
RELATIVE DENSITY INDEX	27.8	33.1	33.3	31.8	30.0	28.1
MEAN DIAMETER (IN)	9.0	9.4	10.5	9.8	8.6	9.0
SITE HEIGHT (FEET)	66.8	69.5	74.5	68.7	64.9	67.3
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
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	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
TREATMENT	CONT	400 #	200 #	CONT	200 #	400 #
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	10	0	0	0	0	10
ASPECT	78	0	0	0	0	115
DOUGLAS-FIR SITE INDEX	61.9	64.8	68.4	57.1	62.8	62.8
VEGETATION SERIES	ABGR	ABGR	ABGR	ABGR	ABGR	ABGR
PARENT MATERIAL	ASH/L	ASH/L	ASH/L	ASH/L	ASH/L	ASH/L
ASH DEPTH (IN)	>12	>12	>12	>12	>12	>12
SOIL DEPTH (IN)	>24	>24	>24	>24	>24	>24
TOTAL NITROGEN (PPM)	1023	1869	1285	1724	1146	1775
TOTAL PHOSPHORUS (PPM)	1493	1341	1638	1526	1431	1680
CARBON (%)	1.5	1.5	1.4	1.5	1.5	1.4
MINERALIZABLE NITROGEN (PPM)	29	19	20	26	21	18
COARSE FRAGMENTS (%)	30.4	7.5	9.8	7.4	10.9	7.3
CORRECTED MINERALIZABLE N	20	17	18	24	19	17
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	23.6	27.6	19.5
MEAN DIAMETER (IN)	11.8	11.0	12.4	14.0	11.5	11.7
SITE HEIGHT (FEET)	96.0	91.9	93.8	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	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	3836	2208	2021
CROWN COMPETITION FACTOR	110	114	102	107	80	67
RELATIVE DENSITY INDEX	29.0	33.7	23.9	30.3	22.2	19.0
MEAN DIAMETER (IN)	12.5	11.9	13.2	14.6	11.8	12.4
SITE HEIGHT (FEET)	95.8	95.4	97.1	96.6	81.1	95.3
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	3.4
DEAD TOTAL VOLUME (CU. FT/A)	408	164	0	0	837	265
TOPKILL VOLUME (CU. FT/A)	0.0	1.9	0.0	0.0	1.8	0.0

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
TREATMENT	200 #	CONT	400 #	CONT	200 #	400 #
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	10	5	0	5	5	10
ASPECT	180	180	0	155	155	110
DOUGLAS-FIR SITE INDEX	69.8	78.5	66.8	70.3	66.0	68.4
VEGETATION SERIES	THPL	THPL	THPL	THPL	THPL	THPL
PARENT MATERIAL	GTILL	GTILL	GTILL	GTILL	GTILL	GTILL
ASH DEPTH (IN)	3-12	3-12	3-12	3-12	3-12	3-12
SOIL DEPTH (IN)	>24	>24	>24	>24	>24	>24
TOTAL NITROGEN (PPM)	1389	1985	2474	2039	2208	2493
TOTAL PHOSPHORUS (PPM)	1506	1518	2145	1919	1889	1393
CARBON (%)	1.6	1.9	1.5	1.4	1.9	1.5
MINERALIZABLE NITROGEN (PPM)	47	51	23	48	54	48
COARSE FRAGMENTS (%)	25.5	23.6	18.3	18.7	19.6	21.8
CORRECTED MINERALIZABLE N	35	39	23	39	43	37
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	30.3
MEAN DIAMETER (IN)	7.4	9.8	8.9	10.3	9.7	9.0
SITE HEIGHT (FEET)	56.6	62.6	65.5	63.8	65.2	59.5
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	94.9	97.5	100.0	91.4	100.0	100.0
GRAND FIR	0.0	2.5	0.0	4.9	0.0	0.0
WESTERN REDCEDAR	0.0	0.0	0.0	3.7	0.0	0.0
WESTERN LARCH	5.1	0.0	0.0	0.0	0.0	0.0
2 YEARS AFTER TREATMENT (1983)						
LIVE TREES PER ACRE	220	170	260	160	190	210
LIVE BASAL AREA (SQ. FT/A)	77.3	100.0	127.2	105.2	108.1	104.3
CROWN COMPETITION FACTOR	96	117	152	119	129	125
RELATIVE DENSITY INDEX	27.3	31.0	41.3	31.7	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	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)	89.0	110.8	143.0	116.2	119.8	117.4
LIVE TOTAL VOLUME (CU. FT/A)	1954	2649	3473	2811	3040	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
SITE HEIGHT (FEET)	63.3	69.0	71.7	71.0	71.0	65.8
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
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

PLOT SUMMARY REPORT

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

TREATMENT	PLOT NUMBER					
	1	2	3	4	5	6
	CONT	200 #	400 #	200 #	400 #	CONT
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	10	25	10	45	45	25
ASPECT	155	140	150	225	240	195
DOUGLAS-FIR SITE INDEX	60.5	66.9	64.9	70.2	72.6	71.9
VEGETATION SERIES	ABGR	ABGR	ABGR	ABGR	ABGR	ABGR
PARENT MATERIAL	GTILL	GTILL	GTILL	GTILL	GTILL	GTILL
ASH DEPTH (IN)	<3	<3	<3	<3	<3	<3
SOIL DEPTH (IN)	>24	>24	>24	>24	>24	>24
TOTAL NITROGEN (PPM)	2559	2830	1363	2679	2273	2307
TOTAL PHOSPHORUS (PPM)	948	949	874	844	790	955
CARBON (%)	1.6	2.3	1.2	1.4	1.2	1.5
MINERALIZABLE NITROGEN (PPM)	55	64	45	56	42	54
COARSE FRAGMENTS (%)	36.3	50.4	39.4	34.9	32.3	24.0
CORRECTED MINERALIZABLE N	35	32	27	36	28	41
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	39.4	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
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	24.9	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	89.5
LIVE TOTAL VOLUME (CU. FT/A)	1797	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
SITE HEIGHT (FEET)	61.9	61.3	61.4	71.0	69.9	57.8
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
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	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

TREATMENT	PLOT NUMBER					
	1	2	3	4	5	6
	CONT	200 #	400 #	400 #	200 #	CONT
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	5	5	15	15	25	15
ASPECT	155	265	195	100	90	145
DOUGLAS-FIR SITE INDEX	62.7	57.7	67.9	71.0	76.2	66.9
VEGETATION SERIES	PSME	PSME	PSME	PSME	PSME	PSME
PARENT MATERIAL	GTILL	GTILL	GTILL	GTILL	GTILL	GTILL
ASH DEPTH (IN)	<3	<3	<3	<3	<3	<3
SOIL DEPTH (IN)	12-24	12-24	12-24	12-24	12-24	12-24
TOTAL NITROGEN (PPM)	2992	3432	1806	1664	2241	3144
TOTAL PHOSPHORUS (PPM)	1028	985	489	559	903	896
CARBON (%)	2.5	2.5	1.3	1.0	1.5	1.7
MINERALIZABLE NITROGEN (PPM)	48	49	34	34	40	38
COARSE FRAGMENTS (%)	22.4	26.4	20.5	17.3	22.2	27.2
CORRECTED MINERALIZABLE N	38	36	27	23	32	28
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	117.3	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	45.5	39.4	49.8
MEAN DIAMETER (IN)	9.4	10.5	10.6	8.8	8.9	10.0
SITE HEIGHT (FEET)	75.1	70.7	72.3	71.8	78.4	75.1
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	90.1	73.9	78.9	88.5	98.0	84.8
WESTERN LARCH	0.0	13.6	0.0	2.4	2.0	5.8
PONDEROSA PINE	9.9	12.4	21.1	9.0	0.0	9.4
2 YEARS AFTER TREATMENT (1983)						
LIVE TREES PER ACRE	320	230	250	320	270	290
LIVE BASAL AREA (SQ. FT/A)	161.9	146.7	162.1	143.5	124.6	163.0
LIVE TOTAL VOLUME (CU. FT/A)	189	162	177	169	149	184
CROWN COMPETITION FACTOR	52.2	44.6	49.1	47.7	41.1	51.2
RELATIVE DENSITY INDEX	9.6	10.8	10.9	9.1	9.2	10.2
MEAN DIAMETER (IN)	0	0	0	0	0	0
DEAD TREES PER ACRE	0.0	0.0	0.0	0.0	0.0	0.0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
4 YEARS AFTER TREATMENT (1985)						
LIVE TREES PER ACRE	300	220	220	310	240	270
LIVE BASAL AREA (SQ. FT/A)	164.0	148.6	154.9	148.1	123.8	162.9
LIVE TOTAL VOLUME (CU. FT/A)	4683	4221	4584	4068	3707	4505
CROWN COMPETITION FACTOR	190	160	166	174	145	182
RELATIVE DENSITY INDEX	51.8	44.5	46.0	48.4	39.7	50.2
MEAN DIAMETER (IN)	10.0	11.1	11.4	9.4	9.7	10.5
SITE HEIGHT (FEET)	81.1	77.4	79.1	77.4	84.6	81.7
DEAD TREES PER ACRE	20	10	30	10	30	20
DEAD BASAL AREA (SQ. FT/A)	6.4	6.2	15.5	5.1	7.9	7.7
DEAD TOTAL VOLUME (CU. FT/A)	200	162	430	142	202	212
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	1.2

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
TREATMENT	200 #	CONT	400 #	400 #	CONT	200 #
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	10	5	0	0	10	5
ASPECT	30	60	0	0	240	330
DOUGLAS-FIR SITE INDEX	51.8	68.8	65.9	75.6	51.6	53.2
VEGETATION SERIES	PSME	PSME	PSME	PSME	PSME	PSME
PARENT MATERIAL	GTILL	GTILL	GTILL	GTILL	GTILL	GTILL
ASH DEPTH (IN)	3-12	3-12	3-12	3-12	3-12	3-12
SOIL DEPTH (IN)	>24	12-24	12-24	>24	12-24	>24
TOTAL NITROGEN (PPM)	2365	2524	2279	2211	1667	1687
TOTAL PHOSPHORUS (PPM)	1555	1544	1081	1088	1403	1547
CARBON (%)	1.7	1.7	1.5	1.5	1.2	1.4
MINERALIZABLE NITROGEN (PPM)	43	42	47	43	35	40
COARSE FRAGMENTS (%)	18.9	18.4	14.1	13.7	15.5	10.4
CORRECTED MINERALIZABLE N	35	34	41	37	30	36
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	33.7	44.7	26.0
MEAN DIAMETER (IN)	8.9	9.3	12.5	9.3	10.2	8.9
SITE HEIGHT (FEET)	67.2	72.9	81.1	67.1	72.8	62.6
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	96.1	92.4	100.0	100.0	100.0	93.6
WESTERN LARCH	3.9	7.5	0.0	0.0	0.0	6.4
2 YEARS AFTER TREATMENT (1983)						
LIVE TREES PER ACRE	270	260	120	230	250	180
LIVE BASAL AREA (SQ. FT/A)	127.2	130.3	111.2	135.1	151.1	86.3
CROWN COMPETITION FACTOR	151	151	116	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	3733	4049	2199
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
SITE HEIGHT (FEET)	72.9	76.9	87.3	72.2	77.4	68.3
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	1.3
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	0	0	28
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

PLOT SUMMARY REPORT

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

TREATMENT	PLOT NUMBER					
	1	2	3	4	5	6
	400 #	200 #	CONT	200 #	400 #	CONT
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	5	15	25	25	25	20
ASPECT	205	255	230	200	225	230
DOUGLAS-FIR SITE INDEX	50.9	42.6	47.7	48.6	46.3	53.6
VEGETATION SERIES	PSME	PSME	PSME	PSME	PSME	PSME
PARENT MATERIAL	GTILL	GTILL	GTILL	GTILL	GTILL	GTILL
ASH DEPTH (IN)	0	0	0	0	0	0
SOIL DEPTH (IN)	12-24	12-24	>24	12-24	12-24	12-24
TOTAL NITROGEN (PPM)	2127	1939	1222	1328	1552	1264
TOTAL PHOSPHORUS (PPM)	1065	827	446	468	719	456
CARBON (%)	1.5	1.3	1.0	1.0	1.3	1.2
MINERALIZABLE NITROGEN (PPM)	51	47	31	30	32	27
COARSE FRAGMENTS (%)	26.8	12.0	13.1	12.2	22.0	13.5
CORRECTED MINERALIZABLE N	37	42	27	26	25	23
MENSURATIONAL CHARACTERISTICS:						
AT TIME OF TREATMENT (1981) STAND AGE = 100						
LIVE TREES PER ACRE	150	170	170	130	120	170
LIVE BASAL AREA (SQ. FT/A)	92.2	102.7	92.0	90.5	79.8	111.0
LIVE TOTAL VOLUME (CU. FT/A)	2215	2426	1924	2276	1893	2747
CROWN COMPETITION FACTOR	102	120	109	101	90	124
RELATIVE DENSITY INDEX	28.3	31.7	29.1	26.9	24.0	33.5
MEAN DIAMETER (IN)	10.6	10.5	10.0	11.3	11.0	10.9
SITE HEIGHT (FEET)	69.8	64.0	57.6	72.3	66.3	70.8
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	109.1	105.1	97.3	131.5
LIVE TOTAL VOLUME (CU. FT/A)	2851	3036	2394	2729	2407	3407
CROWN COMPETITION FACTOR	122	140	124	114	106	142
RELATIVE DENSITY INDEX	32.8	36.2	33.1	30.1	27.9	38.1
MEAN DIAMETER (IN)	11.7	11.5	10.8	12.2	12.2	11.9
SITE HEIGHT (FEET)	75.5	67.7	61.2	74.8	70.5	75.0
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
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	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
TREATMENT	400 #	200 #	CONT	400 #	CONT	200 #
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	25	25	30	10	25	20
ASPECT	50	360	345	330	305	315
DOUGLAS-FIR SITE INDEX	52.5	63.7	61.5	50.7	58.5	47.8
VEGETATION SERIES	PSME	PSME	PSME	PSME	PSME	PSME
PARENT MATERIAL	BSALT	BSALT	BSALT	BSALT	BSALT	BSALT
ASH DEPTH (IN)	0	0	0	0	0	0
SOIL DEPTH (IN)	12-24	12-24	>24	<12	<12	<12
TOTAL NITROGEN (PPM)	3877	4594	3551	4383	3785	1078
TOTAL PHOSPHORUS (PPM)	1181	1006	973	724	1313	1155
CARBON (%)	2.5	2.9	2.1	3.1	3.1	2.9
MINERALIZABLE NITROGEN (PPM)	41	65	48	73	67	52
COARSE FRAGMENTS (%)	11.8	12.6	3.9	24.1	0.0	13.4
CORRECTED MINERALIZABLE N	36	57	44	56	67	45
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	2716
CROWN COMPETITION FACTOR	150	118	168	138	112	143
RELATIVE DENSITY INDEX	44.2	33.3	46.3	44.1	32.3	44.8
MEAN DIAMETER (IN)	10.4	10.9	9.5	9.6	9.0	9.8
SITE HEIGHT (FEET)	73.3	68.4	71.3	60.6	55.3	57.1
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	77.1	82.8	94.4	43.6	83.3	62.6
PONDEROSA PINE	22.9	17.2	5.6	56.4	16.7	37.4
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	150
RELATIVE DENSITY INDEX	47.1	35.9	48.4	47.2	33.8	47.1
MEAN DIAMETER (IN)	10.9	11.4	9.8	10.1	9.3	10.1
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
4 YEARS AFTER TREATMENT (1985)						
LIVE TREES PER ACRE	240	170	290	270	220	270
LIVE BASAL AREA (SQ. FT/A)	165.8	130.2	160.0	161.6	109.0	159.4
LIVE TOTAL VOLUME (CU. FT/A)	4502	3361	4064	3766	2391	3353
CROWN COMPETITION FACTOR	169	135	186	159	125	157
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
SITE HEIGHT (FEET)	77.4	72.8	75.2	63.7	59.8	61.9
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
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

PLOT SUMMARY REPORT

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

TREATMENT	PLOT NUMBER					
	1	2	3	4	5	6
	400 #	CONT	400 #	200 #	CONT	200 #
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	20	35	30	20	45	35
ASPECT	280	305	270	255	320	250
DOUGLAS-FIR SITE INDEX	45.5	45.3	41.9	61.2	56.2	49.2
VEGETATION SERIES	ABGR	ABGR	ABGR	ABGR	ABGR	ABGR
PARENT MATERIAL	GRAN	GRAN	GRAN	GRAN	GRAN	GRAN
ASH DEPTH (IN)	0	0	0	0	0	0
SOIL DEPTH (IN)	>24	12-24	12-24	>24	>24	>24
TOTAL NITROGEN (PPM)	1430	1323	1430	1413	1693	1628
TOTAL PHOSPHORUS (PPM)	511	805	397	614	543	665
CARBON (%)	1.1	1.0	1.1	1.1	0.8	1.4
MINERALIZABLE NITROGEN (PPM)	27	31	16	26	21	30
COARSE FRAGMENTS (%)	15.5	20.0	15.9	30.7	20.7	34.1
CORRECTED MINERALIZABLE N	23	25	14	18	16	20
MENSURATIONAL CHARACTERISTICS:						
AT TIME OF TREATMENT (1981)						
STAND AGE = 89						
LIVE TREES PER ACRE	340	240	300	190	310	230
LIVE BASAL AREA (SQ. FT/A)	110.6	104.1	85.7	84.9	125.7	117.7
LIVE TOTAL VOLUME (CU. FT/A)	2441	2509	1663	1936	3161	3325
CROWN COMPETITION FACTOR	139	128	109	101	163	140
RELATIVE DENSITY INDEX	39.8	34.9	31.8	28.2	42.8	37.8
MEAN DIAMETER (IN)	7.7	8.9	7.2	9.0	8.6	9.7
SITE HEIGHT (FEET)	59.8	72.7	53.4	65.3	76.6	78.4
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	95.6	97.3	96.5	90.9	61.5	90.0
GRAND FIR	0.0	2.7	0.0	3.2	31.6	10.0
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	143	134	115	110	161	141
RELATIVE DENSITY INDEX	42.1	36.3	33.5	30.1	42.8	38.0
MEAN DIAMETER (IN)	8.0	9.2	7.5	9.5	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)	2873	2853	1950	2370	3333	3627
CROWN COMPETITION FACTOR	155	141	120	116	166	146
RELATIVE DENSITY INDEX	43.5	38.0	35.0	31.8	43.9	39.5
MEAN DIAMETER (IN)	8.4	9.4	7.7	9.3	9.0	10.3
SITE HEIGHT (FEET)	63.1	74.8	56.5	68.1	77.8	79.6
DEAD TREES PER ACRE	10	0	0	0	10	10
DEAD BASAL AREA (SQ. FT/A)	1.5	0.0	0.0	0.0	3.1	2.7
DEAD TOTAL VOLUME (CU. FT/A)	33	0	0	0	74	59
TOPKILL VOLUME (CU. FT/A)	0.7	0.0	0.0	0.0	2.3	0.0

PLOT SUMMARY REPORT

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

TREATMENT	PLOT NUMBER					
	1 CONT	2 200 #	3 400 #	4 200 #	5 CONT	6 400 #
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	40	45	50	30	35	35
ASPECT	64	108	102	124	103	96
DOUGLAS-FIR SITE INDEX	54.8	59.1	45.1	58.5	64.1	47.3
VEGETATION SERIES	ABGR	ABGR	ABGR	ABGR	ABGR	ABGR
PARENT MATERIAL	BSALT	BSALT	BSALT	BSALT	BSALT	BSALT
ASH DEPTH (IN)	0	0	0	0	0	0
SOIL DEPTH (IN)	12-24	12-24	<12	12-24	>24	12-24
TOTAL NITROGEN (PPM)	3177	4202	3937	3406	3168	3601
TOTAL PHOSPHORUS (PPM)	1222	1441	1771	996	1233	1252
CARBON (%)	2.0	2.4	4.3	1.7	1.7	2.4
MINERALIZABLE NITROGEN (PPM)	53	60	59	57	60	46
COARSE FRAGMENTS (%)	18.2	13.8	19.2	11.3	15.1	14.6
CORRECTED MINERALIZABLE N	43	52	48	51	51	39
MENSURATIONAL CHARACTERISTICS:						
AT TIME OF TREATMENT (1981) STAND AGE = 82						
LIVE TREES PER ACRE	230	170	210	170	160	140
LIVE BASAL AREA (SQ. FT/A)	149.8	94.9	104.7	116.6	149.4	93.1
LIVE TOTAL VOLUME (CU. FT/A)	3969	2259	2226	2597	4245	2214
CROWN COMPETITION FACTOR	156	107	119	125	149	101
RELATIVE DENSITY INDEX	45.3	29.8	33.8	34.8	41.3	28.0
MEAN DIAMETER (IN)	10.9	10.1	9.6	11.2	13.1	11.0
SITE HEIGHT (FEET)	79.7	76.2	63.9	65.7	82.9	64.7
SPECIES COMPOSITION (% OF 3A)						
DOUGLAS-FIR	65.2	95.7	89.3	95.8	95.3	90.3
GRAND FIR	6.7	2.1	0.0	0.0	0.0	0.0
WESTERN LARCH	12.9	0.0	0.0	0.0	0.0	0.0
LODGEPOLE PINE	5.4	0.0	0.0	0.0	0.0	0.0
PONDEROSA PINE	7.1	2.2	10.7	4.2	4.7	9.6
ENGELMANN SPRUCE	2.8	0.0	0.0	0.0	0.0	0.0
2 YEARS AFTER TREATMENT (1983)						
LIVE TREES PER ACRE	220	170	210	170	160	140
LIVE BASAL AREA (SQ. FT/A)	150.8	103.0	111.6	125.4	157.2	98.7
CROWN COMPETITION FACTOR	157	115	126	133	156	106
RELATIVE DENSITY INDEX	45.0	31.7	35.5	36.8	42.9	29.3
MEAN DIAMETER (IN)	11.2	10.5	9.9	11.6	13.4	11.4
DEAD TREES PER ACRE	10	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	4.2	0.0	0.0	0.0	0.0	0.0
4 YEARS AFTER TREATMENT (1985)						
LIVE TREES PER ACRE	220	170	210	170	160	140
LIVE BASAL AREA (SQ. FT/A)	157.3	110.2	119.1	133.7	165.0	104.0
LIVE TOTAL VOLUME (CU. FT/A)	4317	2745	2671	3105	4834	2563
CROWN COMPETITION FACTOR	162	121	134	139	161	110
RELATIVE DENSITY INDEX	46.5	33.4	37.3	38.6	44.5	30.4
MEAN DIAMETER (IN)	11.4	10.9	10.2	12.0	13.8	11.7
SITE HEIGHT (FEET)	81.5	80.1	67.4	63.3	85.7	67.9
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
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

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
TREATMENT	400 #	CONT	200 #	400 #	CONT	200 #
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	25	40	35	20	30	10
ASPECT	10	80	90	75	360	350
DOUGLAS-FIR SITE INDEX	49.2	51.7	59.6	50.0	63.5	45.9
VEGETATION SERIES	PSME	PSME	PSME	ABGR	PSME	PSME
PARENT MATERIAL	BSALT	BSALT	BSALT	BSALT	BSALT	BSALT
ASH DEPTH (IN)	0	0	0	0	0	0
SOIL DEPTH (IN)	>24	12-24	<12	12-24	>24	<12
TOTAL NITROGEN (PPM)	2938	2281	2031	1775	3128	3903
TOTAL PHOSPHORUS (PPM)	384	1198	1166	1156	1197	987
CARBON (%)	1.0	1.3	1.3	1.0	1.6	2.8
MINERALIZABLE NITROGEN (PPM)	27	48	27	23	45	88
COARSE FRAGMENTS (%)	0.0	21.6	13.1	14.2	25.9	24.0
CORRECTED MINERALIZABLE N	27	38	24	20	34	67
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	138.3	168.1	125.3
LIVE TOTAL VOLUME (CU. FT/A)	3590	2607	2533	3753	3744	2622
CROWN COMPETITION FACTOR	208	149	146	157	198	137
RELATIVE DENSITY INDEX	60.4	43.0	39.1	45.0	56.7	40.1
MEAN DIAMETER (IN)	7.1	7.6	9.4	9.5	8.8	9.8
SITE HEIGHT (FEET)	59.5	60.8	59.3	77.8	63.0	65.1
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	94.2	90.6	100.0	86.3	85.9	87.1
GRAND FIR	0.0	0.0	0.0	0.0	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	41.9
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	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	3114	4521	4354	3023
CROWN COMPETITION FACTOR	229	168	162	179	216	150
RELATIVE DENSITY INDEX	66.1	48.2	43.6	50.3	61.5	43.3
MEAN DIAMETER (IN)	7.6	8.1	10.1	10.3	9.3	10.3
SITE HEIGHT (FEET)	62.4	65.7	64.0	81.2	65.3	67.9
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
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

PLOT SUMMARY REPORT

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

TREATMENT	PLOT NUMBER					
	1	2	3	4	5	6
	CONT	200 #	400 #	200 #	CONT	400 #
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	20	30	40	35	40	45
ASPECT	25	25	60	60	20	60
DOUGLAS-FIR SITE INDEX	62.1	50.1	55.5	46.3	50.7	66.1
VEGETATION SERIES	PSHE	PSME	ABGP	ABGE	ABGR	PSME
PARENT MATERIAL	BSALT	BSALT	BSALT	BSALT	BSALT	BSALT
ASH DEPTH (IN)	0	0	0	0	0	0
SOIL DEPTH (IN)	12-24	12-24	12-24	>24	12-24	<12
TOTAL NITROGEN (PPM)	2720	1462	1920	1888	1627	3125
TOTAL PHOSPHORUS (PPM)	1001	1088	991	799	646	1163
CARBON (%)	2.1	1.4	1.5	1.4	1.4	2.4
MINERALIZABLE NITROGEN (PPM)	40	22	37	31	27	55
COARSE FRAGMENTS (%)	7.6	9.2	11.6	19.1	13.3	26.9
CORRECTED MINERALIZABLE N	37	20	33	25	24	41
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
SITE HEIGHT (FEET)	64.1	61.2	70.5	66.7	85.6	66.0
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	85.5	94.8	58.3	67.5	94.3	94.4
GRAND FIR	0.0	0.0	4.7	0.0	0.0	0.0
PONDEROSA PINE	14.5	5.2	37.0	32.5	5.8	5.6
2 YEARS AFTER TREATMENT (1983)						
LIVE TREES PER ACRE	260	250	250	250	180	160
LIVE BASAL AREA (SQ. FT/A)	116.5	102.0	127.8	131.2	142.8	106.7
CROWN COMPETITION FACTOR	130	124	135	139	151	115
RELATIVE DENSITY INDEX	38.7	34.7	41.1	41.9	41.1	32.1
MEAN DIAMETER (IN)	9.1	8.6	9.7	9.8	12.1	11.1
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
4 YEARS AFTER TREATMENT (1985)						
LIVE TREES PER ACRE	260	250	250	250	180	160
LIVE BASAL AREA (SQ. FT/A)	125.3	110.8	138.8	144.0	149.5	112.7
LIVE TOTAL VOLUME (CU. FT/A)	2991	2624	3783	3716	4344	2634
CROWN COMPETITION FACTOR	137	134	145	152	157	119
RELATIVE DENSITY INDEX	40.9	36.9	43.7	44.9	42.6	33.4
MEAN DIAMETER (IN)	9.4	9.0	10.1	10.3	12.3	11.4
SITE HEIGHT (FEET)	69.2	66.8	76.5	72.1	87.4	70.3
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
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

PLOT SUMMARY REPORT

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

TREATMENT	PLOT NUMBER					
	1	2	3	4	5	6
	CONT	200 #	400 #	CONT	200 #	400 #
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	5	0	10	5	0	0
ASPECT	350	0	165	125	0	0
DOUGLAS-FIR SITE INDEX	86.1	87.9	98.2	95.4	91.1	87.2
VEGETATION SERIES	ABGR	ABGR	ABGR	ABGR	ABGR	ABGR
PARENT MATERIAL	BSALT	BSALT	BSALT	BSALT	BSALT	BSALT
ASH DEPTH (IN)	0	0	0	0	0	0
SOIL DEPTH (IN)	<12	<12	<12	<12	<12	<12
TOTAL NITROGEN (PPM)	1719	2847	2495	3260	2452	2936
TOTAL PHOSPHORUS (PPM)	1101	1205	899	854	673	937
CARBON (%)	1.9	3.0	2.5	2.8	2.0	2.6
MINERALIZABLE NITROGEN (PPM)	32	36	34	40	30	39
COARSE FRAGMENTS (%)	14.6	13.9	17.4	12.6	11.1	15.0
CORRECTED MINERALIZABLE N	27	31	28	35	27	33
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	5690	5316	5890	7051	6789
CROWN COMPETITION FACTOR	115	145	119	136	163	135
RELATIVE DENSITY INDEX	31.2	40.6	33.6	38.0	45.7	38.5
MEAN DIAMETER (IN)	15.9	14.9	16.8	16.9	17.0	19.0
SITE HEIGHT (FEET)	105.0	113.9	118.0	117.6	114.4	120.8
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	85.8	86.4	98.8	97.8	94.9	96.5
GRAND FIR	14.1	13.6	1.2	2.2	5.1	3.5
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	215.2	190.9
LIVE TOTAL VOLUME (CU. FT/A)	4993	6711	6371	6677	8271	7823
CROWN COMPETITION FACTOR	122	161	134	147	182	151
RELATIVE DENSITY INDEX	33.2	44.7	37.8	41.0	50.5	42.4
MEAN DIAMETER (IN)	17.3	16.3	18.1	17.8	18.1	20.3
SITE HEIGHT (FEET)	108.3	117.9	122.6	121.4	118.7	124.6
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	0	0
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.5	0.0	0.5	0.0

PLOT SUMMARY REPORT

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

TREATMENT	PLOT NUMBER					
	1 400 #	2 CONT	3 200 #	4 400 #	5 200 #	6 CONT
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	0	0	0	0	0	0
ASPECT	0	0	0	0	0	0
DOUGLAS-FIR SITE INDEX	46.8	57.4	55.0	60.7	46.0	62.3
VEGETATION SERIES	PSME	PSME	PSME	PSME	PSME	PSME
PARENT MATERIAL	BSALT	BSALT	BSALT	BSALT	BSALT	BSALT
ASH DEPTH (IN)	0	0	0	0	0	0
SOIL DEPTH (IN)	>24	>24	>24	>24	>24	>24
TOTAL NITROGEN (PPM)	1349	2007	1697	1841	1737	1326
TOTAL PHOSPHORUS (PPM)	666	700	701	793	724	705
CARBON (%)	1.3	1.4	1.5	1.3	1.3	1.7
MINERALIZABLE NITROGEN (PPM)	19	21	21	15	20	23
COARSE FRAGMENTS (%)	12.7	14.3	12.0	13.6	11.8	14.0
CORRECTED MINERALIZABLE N	17	18	18	13	18	19
MEASUREMENTAL 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)	10.3	10.2	10.9	11.3	12.6	11.4
SITE HEIGHT (FEET)	70.6	70.2	68.8	81.3	78.0	76.0
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
LIVE TOTAL VOLUME (CU. FT/A)	112	115	123	132	173	133
CROWN COMPETITION FACTOR	30.6	30.5	32.4	36.1	46.2	35.4
RELATIVE DENSITY INDEX	11.2	10.7	11.6	12.0	13.0	11.3
MEAN DIAMETER (IN)	0	0	0	0	0	0
DEAD TREES PER ACRE	0.0	0.0	0.0	0.0	0.0	0.0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
4 YEARS AFTER TREATMENT (1985)						
LIVE TREES PER ACRE	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	37.2
MEAN DIAMETER (IN)	12.0	11.2	12.3	12.6	13.5	12.2
SITE HEIGHT (FEET)	78.8	74.7	74.1	87.6	81.7	81.0
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
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	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

TREATMENT	PLOT NUMBER					
	1	2	3	4	5	6
	CONT	200 #	400 #	400 #	200 #	CONT
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	15	10	5	10	5	10
ASPECT	310	260	265	290	285	255
DOUGLAS-FIR SITE INDEX	52.1	70.9	54.4	61.3	51.6	51.9
VEGETATION SERIES	PSME	PSME	PSME	PSME	PSME	PSME
PARENT MATERIAL	BSALT	BSALT	BSALT	BSALT	BSALT	BSALT
ASH DEPTH (IN)	0	0	0	0	0	0
SOIL DEPTH (IN)	>24	>24	>24	>24	>24	>24
TOTAL NITROGEN (PPM)	1455	1640	1392	851	1393	1463
TOTAL PHOSPHORUS (PPM)	327	344	361	362	343	309
CARBON (%)	1.1	1.1	1.0	1.0	1.1	1.2
MINERALIZABLE NITROGEN (PPM)	16	22	18	15	14	18
COARSE FRAGMENTS (%)	6.9	6.3	6.2	4.3	5.0	4.7
CORRECTED MINERALIZABLE N	15	20	17	14	13	17
MENSURATIONAL CHARACTERISTICS:						
AT TIME OF TREATMENT (1981) STAND AGE = 79						
LIVE TREES PER ACRE	130	120	130	150	130	130
LIVE BASAL AREA (SQ. FT/A)	101.8	87.8	71.3	81.5	95.1	91.1
LIVE TOTAL VOLUME (CU. FT/A)	2571	2051	1595	1825	2247	1979
CROWN COMPETITION FACTOR	111	101	85	93	103	103
RELATIVE DENSITY INDEX	29.4	25.8	22.5	25.8	27.9	27.1
MEAN DIAMETER (IN)	12.0	11.6	10.0	10.0	11.6	11.3
SITE HEIGHT (FEET)	73.3	65.5	61.1	67.8	69.4	61.8
SPECIES COMPOSITION (% OF 3A)						
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)	12.3	12.2	10.7	10.6	12.1	11.7
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
4 YEARS AFTER TREATMENT (1985)						
LIVE TREES PER ACRE	130	120	130	150	130	130
LIVE BASAL AREA (SQ. FT/A)	114.3	106.4	89.9	100.5	111.3	104.3
LIVE TOTAL VOLUME (CU. FT/A)	3034	2628	2171	2421	2903	2405
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
SITE HEIGHT (FEET)	77.9	69.8	66.9	74.3	74.8	66.3
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	0.0	0.0	0.0
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	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

TREATMENT	PLOT NUMBER					
	1	2	3	4	5	6
	200 #	400 #	CONT	200 #	CONT	400 #
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	30	20	33	35	50	30
ASPECT	40	75	30	35	35	40
DOUGLAS-FIR SITE INDEX	62.2	62.4	55.3	51.6	48.6	53.9
VEGETATION SERIES	PSME	PSME	PSME	PSME	PSME	PSME
PARENT MATERIAL	BSALT	BSALT	BSALT	BSALT	BSALT	BSALT
ASH DEPTH (IN)	+	+	+	+	+	+
SOIL DEPTH (IN)	12-24	<12	12-24	>24	12-24	12-24
TOTAL NITROGEN (PPM)	1091	1948	1775	1140	902	1453
TOTAL PHOSPHORUS (PPM)	197	213	165	305	236	140
CARBON (%)	1.4	1.6	1.5	1.4	1.2	1.4
MINERALIZABLE NITROGEN (PPM)	27	22	28	24	27	20
COARSE FRAGMENTS (%)	15.2	14.6	16.2	17.1	16.5	13.9
CORRECTED MINERALIZABLE N	23	19	24	20	22	17
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	3128	2078	3761	1818	2508
CROWN COMPETITION FACTOR	112	115	98	143	85	109
RELATIVE DENSITY INDEX	29.1	30.3	25.9	38.2	21.9	28.1
MEAN DIAMETER (IN)	12.6	13.7	11.6	12.4	11.0	12.3
SITE HEIGHT (FEET)	77.0	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
LIVE TOTAL VOLUME (CU. FT/A)	118	121	101	151	88	114
CROWN COMPETITION FACTOR	31.0	32.2	25.9	40.4	22.3	29.5
RELATIVE DENSITY INDEX	13.1	14.2	11.9	12.9	11.3	12.7
MEAN DIAMETER (IN)	0	0	0	0	0	0
DEAD TREES PER ACRE	0.0	0.0	0.0	0.0	0.0	0.0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
4 YEARS AFTER TREATMENT (1985)						
LIVE TREES PER ACRE	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	3902	2472	4612	2162	3028
CROWN COMPETITION FACTOR	124	127	105	158	93	118
RELATIVE DENSITY INDEX	32.7	34.0	28.0	42.4	24.0	30.9
MEAN DIAMETER (IN)	13.6	14.7	12.2	13.3	11.7	13.1
SITE HEIGHT (FEET)	82.0	87.9	69.5	36.6	72.1	73.3
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	0.0	0.0	0.0
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	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

TREATMENT	PLOT NUMBER					
	1	2	3	4	5	6
	400 #	200 #	CONT	200 #	CONT	400 #
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	30	10	20	40	45	20
ASPECT	336	295	360	360	340	335
DOUGLAS-FIR SITE INDEX	83.4	68.2	70.9	77.9	88.2	72.7
VEGETATION SERIES	PSME	PSME	PSME	PSME	PSME	PSME
PARENT MATERIAL	ASH/L	ASH/L	ASH/L	ASH/L	ASH/L	ASH/L
ASH DEPTH (IN)	0	0	0	0	0	0
SOIL DEPTH (IN)	12-24	<12	<12	12-24	12-24	12-24
TOTAL NITROGEN (PPM)	1141	1228	1246	1489	1021	1042
TOTAL PHOSPHORUS (PPM)	178	342	379	205	193	225
CARBON (%)	1.3	1.5	1.3	1.2	0.9	1.2
MINERALIZABLE NITROGEN (PPM)	45	36	32	20	19	21
CCARSE FRAGMENTS (%)	24.4	8.3	8.8	9.8	7.8	8.2
CORRECTED MINERALIZABLE N	34	33	29	18	18	20
MENSURATIONAL CHARACTERISTICS:						
AT TIME OF TREATMENT (1981)	STAND AGE = 64					
LIVE TREES PER ACRE	140	160	210	260	220	280
LIVE BASAL AREA (SQ. FT/A)	124.1	136.2	164.6	128.9	131.2	157.6
LIVE TOTAL VOLUME (CU. FT/A)	3488	4103	4638	3456	3573	4274
CROWN COMPETITION FACTOR	132	142	165	148	148	179
RELATIVE DENSITY INDEX	34.8	38.5	47.5	41.7	40.6	49.4
MEAN DIAMETER (IN)	12.8	12.5	12.0	9.5	10.5	10.2
SITE HEIGHT (FEET)	76.1	83.9	90.3	76.6	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
LIVE TOTAL VOLUME (CU. FT/A)	138	147	171	152	153	189
CROWN COMPETITION FACTOR	36.3	40.1	49.2	42.3	42.1	52.0
RELATIVE DENSITY INDEX	13.1	12.8	12.3	9.9	10.7	10.5
MEAN DIAMETER (IN)	0	0	0	10	0	0
DEAD TREES PER ACRE	0.0	0.0	0.0	2.3	0.0	0.0
DEAD BASAL AREA (SQ. FT/A)						
4 YEARS AFTER TREATMENT (1985)						
LIVE TREES PER ACRE	140	150	210	250	220	280
LIVE BASAL AREA (SQ. FT/A)	140.1	147.3	191.5	142.9	146.1	181.8
LIVE TOTAL VOLUME (CU. FT/A)	4158	4717	5462	4073	4255	5265
CROWN COMPETITION FACTOR	144	149	177	164	160	200
RELATIVE DENSITY INDEX	38.1	40.2	51.2	44.7	44.0	55.0
MEAN DIAMETER (IN)	13.5	13.4	12.6	10.2	11.0	10.9
SITE HEIGHT (FEET)	84.9	94.2	85.1	81.2	76.8	89.3
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	62	0	0
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	2.6	0.0	0.0

PLOT SUMMARY REPORT

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

TREATMENT	PLOT NUMBER					
	1 400 #	2 CONT	3 200 #	4 CONT	5 400 #	6 200 #
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	10	10	15	15	15	20
ASPECT	82	78	62	62	30	42
DOUGLAS-FIR SITE INDEX	76.0	76.3	76.9	87.0	77.6	81.2
VEGETATION SERIES	PSME	PSME	PSME	PSME	PSME	PSME
PARENT MATERIAL	BSALT	BSALT	BSALT	BSALT	BSALT	BSALT
ASH DEPTH (IN)	+	+	+	+	+	+
SOIL DEPTH (IN)	12-24	>24	12-24	12-24	12-24	12-24
TOTAL NITROGEN (PPM)	1611	2010	1721	1471	1977	1399
TOTAL PHOSPHORUS (PPM)	372	474	402	505	650	499
CARBON (%)	1.5	1.6	1.4	1.5	1.8	1.4
MINERALIZABLE NITROGEN (PPM)	55	46	39	52	48	32
COARSE FRAGMENTS (%)	17.4	18.5	24.7	19.6	27.3	18.5
CORRECTED MINERALIZABLE N	45	38	29	42	35	26
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
SITE HEIGHT (FEET)	79.3	92.9	101.1	90.3	89.4	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
LIVE TOTAL VOLUME (CU. FT/A)	139	129	154	135	133	115
CROWN COMPETITION FACTOR	37.5	34.6	41.3	36.0	35.2	30.6
RELATIVE DENSITY INDEX	14.1	15.9	16.8	14.5	14.3	14.6
MEAN DIAMETER (IN)	0	0	0	0	0	0
DEAD TREES PER ACRE	0.0	0.0	0.0	0.0	0.0	0.0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
4 YEARS AFTER TREATMENT (1985)						
LIVE TREES PER ACRE	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
SITE HEIGHT (FEET)	84.3	98.0	106.4	94.4	96.4	96.2
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	0.0	0.0	0.0
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	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
TREATMENT	400 #	200 #	CONT	CONT	200 #	400 #
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	15	10	10	15	0	0
ASPECT	270	270	250	245	0	0
DOUGLAS-FIR SITE INDEX	55.0	57.1	61.4	81.6	79.7	74.4
VEGETATION SERIES	ABGR	ABGR	ABGR	ABGR	ABGR	ABGR
PARENT MATERIAL	ASH/L	ASH/L	ASH/L	ASH/L	ASH/L	ASH/L
ASH DEPTH (IN)	<3	<3	<3	<3	<3	<3
SOIL DEPTH (IN)	>24	>24	>24	12-24	>24	>24
TOTAL NITROGEN (PPM)	751	551	386	746	1373	1144
TOTAL PHOSPHORUS (PPM)	336	396	492	509	920	670
CARBON (%)	1.0	0.6	1.1	1.0	1.4	1.1
MINERALIZABLE NITROGEN (PPM)	13	10	21	28	34	32
COARSE FRAGMENTS (%)	18.6	7.9	7.9	16.4	14.2	33.5
CORRECTED MINERALIZABLE N	10	10	19	23	30	21
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	12.0	15.0	14.3	15.3
SITE HEIGHT (FEET)	91.5	85.7	88.8	103.2	97.8	97.0
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	80.1	89.7	93.2	93.0	77.0	93.2
GRAND FIR	5.5	0.0	0.0	0.0	0.6	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	122.6
CROWN COMPETITION FACTOR	134	132	127	124	119	115
RELATIVE DENSITY INDEX	37.3	36.2	35.5	37.2	35.4	30.3
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)	152.5	137.1	132.9	151.3	145.3	134.3
LIVE TOTAL VOLUME (CU. FT/A)	4990	4324	4107	5458	5209	4481
CROWN COMPETITION FACTOR	146	140	133	128	125	122
RELATIVE DENSITY INDEX	40.6	38.7	37.2	38.4	37.3	33.0
MEAN DIAMETER (IN)	14.1	12.5	12.7	15.5	15.2	16.5
SITE HEIGHT (FEET)	97.7	92.5	93.0	106.6	102.7	99.1
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
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

PLOT SUMMARY REPORT

INSTALLATION 231 ELMO

REGION: MONTANA

LEGAL DESCRIPTION: T24N R21W SECTION 30

OWNERSHIP: FLATHEAD (BIA)

MERIDIAN: PRINCIPAL

TREATMENT	PLOT NUMBER					
	1 CONT	2 200 #	3 400 #	4 200 #	5 CONT	6 400 #
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	30	35	35	25	20	20
ASPECT	345	345	350	15	15	360
DOUGLAS-FIR SITE INDEX	60.7	62.5	56.9	58.7	55.2	60.5
VEGETATION SERIES	PSME	PSME	PSME	PSME	PSME	PSME
PARENT MATERIAL	GTILL	GTILL	GTILL	GTILL	GTILL	GTILL
ASH DEPTH (IN)	0	0	0	0	0	0
SOIL DEPTH (IN)	<12	12-24	12-24	<12	12-24	12-24
TOTAL NITROGEN (PPM)	6266	3677	4001	4831	2548	2175
TOTAL PHOSPHORUS (PPM)	1324	554	547	865	199	1037
CARBON (%)	5.7	3.3	3.8	5.3	3.6	2.5
MINERALIZABLE NITROGEN (PPM)	88	88	107	93	86	40
COARSE FRAGMENTS (%)	36.7	44.5	41.3	33.6	32.1	36.9
CORRECTED MINERALIZABLE N	56	49	63	62	58	25
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	115.6	71.8	90.3	94.1
LIVE TOTAL VOLUME (CU. FT/A)	2818	1970	2765	1649	2001	2280
CROWN COMPETITION FACTOR	130	108	132	83	102	107
RELATIVE DENSITY INDEX	36.1	29.5	36.3	22.6	28.3	28.7
MEAN DIAMETER (IN)	10.7	9.7	10.3	10.1	10.2	10.7
SITE HEIGHT (FEET)	68.5	61.4	66.8	63.8	62.8	69.5
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	89.5	100.0	94.0	94.8	92.3	99.3
WESTERN LARCH	0.0	0.0	0.0	0.0	0.0	0.7
PONDEROSA PINE	10.5	0.0	6.0	5.1	7.7	0.0
2 YEARS AFTER TREATMENT (1983)						
LIVE TREES PER ACRE	190	180	200	130	160	150
LIVE BASAL AREA (SQ. FT/A)	125.9	100.8	126.4	78.7	97.0	102.3
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	10.3	11.5
SITE HEIGHT (FEET)	71.0	63.4	69.8	66.3	65.8	73.1
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
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

PLOT SUMMARY REPORT

INSTALLATION 232 SUNNY SLOPE
 REGION: MONTANA OWNERSHIP: FLATHEAD (BIA)
 LEGAL DESCRIPTION: T23N R21W SECTION 12 MERIDIAN: PRINCIPAL

TREATMENT	PLOT NUMBER					
	1	2	3	4	5	6
	CONT	400 #	200 #	400 #	200 #	CONT
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	10	10	10	15	10	15
ASPECT	300	315	315	325	340	360
DOUGLAS-FIR SITE INDEX	80.4	73.9	83.8	82.5	77.9	75.5
VEGETATION SERIES	PSME	PSME	PSME	PSME	PSME	PSME
PARENT MATERIAL	GTILL	GTILL	GTILL	GTILL	GTILL	GTILL
ASH DEPTH (IN)	0	0	0	0	0	0
SCIL DEPTH (IN)	<12	<12	<12	12-24	12-24	<12
TOTAL NITROGEN (PPM)	3332	3053	2377	2102	2383	3234
TOTAL PHOSPHORUS (PPM)	466	457	291	647	377	984
CARBON (%)	3.5	2.7	2.2	2.9	2.4	2.4
MINERALIZABLE NITROGEN (PPM)	85	78	61	63	62	67
COARSE FRAGMENTS (%)	18.0	35.5	32.1	34.5	43.9	25.4
CORRECTED MINERALIZABLE N	70	51	41	41	35	50
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	11.3	11.1	11.1
SITE HEIGHT (FEET)	68.4	81.5	74.1	79.9	73.0	76.1
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	89.5	86.3	83.3	71.5	95.8	89.3
WESTERN LARCH	0.0	13.7	0.0	16.6	0.0	11.7
PONDEROSA PINE	10.5	0.0	16.7	11.9	4.1	0.0
2 YEARS AFTER TREATMENT (1983)						
LIVE TREES PER ACRE	180	180	230	180	200	210
LIVE BASAL AREA (SQ. FT/A)	122.0	164.2	166.6	143.9	147.8	152.4
CROWN COMPETITION FACTOR	133	168	177	148	163	165
RELATIVE DENSITY INDEX	36.5	45.6	49.1	42.4	43.3	44.9
MEAN DIAMETER (IN)	11.1	12.9	11.5	12.3	11.6	11.5
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
4 YEARS AFTER TREATMENT (1985)						
LIVE TREES PER ACRE	180	180	230	170	200	210
LIVE BASAL AREA (SQ. FT/A)	126.6	172.1	173.9	150.0	155.2	158.6
LIVE TOTAL VOLUME (CU. FT/A)	3261	5187	4979	4256	4309	4398
CROWN COMPETITION FACTOR	136	174	183	150	169	169
RELATIVE DENSITY INDEX	37.6	47.3	50.7	42.1	44.9	46.2
MEAN DIAMETER (IN)	11.4	13.2	11.8	12.7	11.9	11.8
SITE HEIGHT (FEET)	71.9	83.6	79.2	84.7	78.1	79.8
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
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

PLOT SUMMARY REPORT

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

TREATMENT	PLOT NUMBER					
	1 400 #	2 200 #	3 CONT	4 CONT	5 200 #	6 400 #
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	15	10	5	15	5	20
ASPECT	300	260	310	290	270	315
DOUGLAS-FIR SITE INDEX	70.9	86.2	72.9	82.9	71.2	84.6
VEGETATION SERIES	PSME	PSME	PSME	PSME	PSME	PSME
PARENT MATERIAL	ALLUV	ALLUV	ALLUV	ALLUV	ALLUV	ALLUV
ASH DEPTH (IN)	0	0	0	0	0	0
SOIL DEPTH (IN)	12-24	12-24	12-24	12-24	12-24	12-24
TOTAL NITROGEN (PPM)	2556	1589	3150	3069	2520	2224
TOTAL PHOSPHORUS (PPM)	239	183	224	290	204	201
CARBON (%)	2.8	3.0	2.8	2.7	2.4	2.3
MINERALIZABLE NITROGEN (PPM)	68	56	74	65	53	47
COARSE FRAGMENTS (%)	39.1	31.7	30.6	35.1	31.5	31.0
CORRECTED MINERALIZABLE N	41	38	51	42	36	33
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	3224	4931	3829	4429	3584
CROWN COMPETITION FACTOR	148	135	189	145	157	148
RELATIVE DENSITY INDEX	38.6	37.3	51.2	38.0	41.4	39.5
MEAN DIAMETER (IN)	12.5	11.3	11.9	12.9	13.1	12.7
SITE HEIGHT (FEET)	77.1	73.2	80.3	76.4	83.1	70.5
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	100.0	82.6	85.7	100.0	100.0	91.0
WESTERN LARCH	0.0	0.0	14.3	0.0	0.0	0.0
PONDEROSA PINE	0.0	17.4	0.0	0.0	0.0	9.0
2 YEARS AFTER TREATMENT (1983)						
LIVE TREES PER ACRE	160	180	230	150	160	160
LIVE BASAL AREA (SQ. FT/A)	147.2	136.3	188.7	143.8	160.3	152.4
LIVE TOTAL VOLUME (CU. FT/A)	156	146	199	150	164	157
CROWN COMPETITION FACTOR	40.9	39.7	53.9	39.5	43.5	41.9
RELATIVE DENSITY INDEX	13.0	11.8	12.3	13.3	13.6	13.2
MEAN DIAMETER (IN)	0	0	0	0	0	0
DEAD TREES PER ACRE	0.0	0.0	0.0	0.0	0.0	0.0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
4 YEARS AFTER TREATMENT (1985)						
LIVE TREES PER ACRE	160	180	230	150	160	160
LIVE BASAL AREA (SQ. FT/A)	154.2	143.4	196.1	148.8	166.6	159.8
LIVE TOTAL VOLUME (CU. FT/A)	4409	3894	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
SITE HEIGHT (FEET)	81.3	77.1	84.6	79.6	88.0	74.0
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
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	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

TREATMENT	PLOT NUMBER					
	1	2	3	4	5	6
	CONT	200 #	400 #	400 #	CONT	200 #
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	0	0	5	10	0	10
ASPECT	0	0	210	240	0	250
DOUGLAS-FIR SITE INDEX	70.0	63.3	76.2	76.8	70.1	74.0
VEGETATION SERIES	ABGR	ABGR	AEGR	ABGR	ABGR	ABGR
PARENT MATERIAL	GTILL	GTILL	GTILL	GTILL	GTILL	GTILL
ASH DEPTH (IN)	0	0	0	0	0	0
SOIL DEPTH (IN)	<12	<12	<12	<12	12-24	12-24
TOTAL NITROGEN (PPM)	2474	2013	2171	2611	5059	4359
TOTAL PHOSPHORUS (PPM)	240	194	191	233	495	278
CARBON (%)	1.9	1.5	1.8	2.2	3.0	1.9
MINERALIZABLE NITROGEN (PPM)	68	63	65	49	76	87
COARSE FRAGMENTS (%)	34.5	40.0	41.9	55.2	62.5	49.2
CORRECTED MINERALIZABLE N	45	38	38	22	29	44
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	12.3
SITE HEIGHT (FEET)	73.4	74.3	70.2	71.8	79.4	73.3
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	67.6	66.8	74.2	93.8	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	111.6	135.4	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
SITE HEIGHT (FEET)	79.9	79.9	74.8	76.9	84.6	79.0
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
TCPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

PLOT SUMMARY REPORT

INSTALLATION 235 FISH CREEK OWNERSHIP: CHAMPION
 REGION: MONTANA LEGAL DESCRIPTION: T14N R24W SECTION 5 MERIDIAN: PRINCIPAL

TREATMENT	PLOT NUMBER					
	1	2	3	4	5	6
	CONT	200 #	400 #	CONT	200 #	400 #
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	15	10	15	15	15	20
ASPECT	330	260	350	335	275	315
DOUGLAS-FIR SITE INDEX	54.4	44.0	51.0	55.8	44.7	49.5
VEGETATION SERIES	PSME	PSME	PSME	PSME	PSME	PSME
PARENT MATERIAL	ALLUV	ALLUV	ALLUV	ALLUV	ALLUV	ALLUV
ASH DEPTH (IN)	0	0	0	0	0	0
SOIL DEPTH (IN)	12-24	<12	<12	12-24	12-24	12-24
TOTAL NITROGEN (PPM)	4499	3132	3189	4593	3575	4242
TOTAL PHOSPHORUS (PPM)	802	578	308	1399	1029	1590
CARBON (%)	2.4	1.5	1.8	1.8	1.8	2.6
MINERALIZABLE NITROGEN (PPM)	86	40	42	43	39	64
COARSE FRAGMENTS (%)	46.2	41.0	58.9	39.7	35.7	62.3
CORRECTED MINERALIZABLE N	46	24	17	26	25	24
MENSURATIONAL CHARACTERISTICS:						
AT TIME OF TREATMENT (1981) STAND AGE = 74						
LIVE TREES PER ACRE	220	270	280	390	390	410
LIVE BASAL AREA (SQ. FT/A)	86.7	114.1	106.8	112.2	115.7	126.3
LIVE TOTAL VOLUME (CU. FT/A)	2026	2662	2314	2504	2591	2828
CROWN COMPETITION FACTOR	107	123	127	131	140	158
RELATIVE DENSITY INDEX	29.8	38.4	36.9	41.6	42.6	46.1
MEAN DIAMETER (IN)	8.5	8.8	8.4	7.3	7.4	7.5
SITE HEIGHT (FEET)	65.1	67.0	61.9	63.8	59.6	61.7
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	97.7	62.8	86.5	68.6	83.3	87.9
WESTERN LARCH	0.0	0.0	0.0	1.7	0.0	0.0
LODGEPOLE PINE	0.0	0.0	0.0	0.0	0.0	4.9
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)	93.5	121.9	119.1	116.9	125.3	128.8
LIVE TOTAL VOLUME (CU. FT/A)	2236	2998	2703	2714	2951	3011
CROWN COMPETITION FACTOR	113	131	138	134	148	155
RELATIVE DENSITY INDEX	31.5	40.0	40.1	42.1	44.6	45.2
MEAN DIAMETER (IN)	8.8	9.3	8.8	7.7	7.9	8.1
SITE HEIGHT (FEET)	67.4	70.3	65.4	66.4	62.8	64.9
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
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

PLOT SUMMARY REPORT

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

TREATMENT	PLOT NUMBER					
	1	2	3	4	5	6
	400 #	200 #	CONT	400 #	CONT	200 #
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	25	25	35	40	45	40
ASPECT	20	340	360	350	340	345
DOUGLAS-FIR SITE INDEX	55.1	54.2	57.1	52.5	55.1	53.4
VEGETATION SERIES	PSME	PSME	PSME	PSME	PSME	PSME
PARENT MATERIAL	VFILL	VFILL	VFILL	VFILL	VFILL	VFILL
ASH DEPTH (IN)	0	0	0	0	0	0
SOIL DEPTH (IN)	<12	<12	<12	<12	<12	<12
TOTAL NITROGEN (PPM)	4492	4133	5545	5204	4345	5095
TOTAL PHOSPHORUS (PPM)	704	515	712	836	711	639
CARBON (%)	1.2	3.4	5.1	5.8	5.0	5.4
MINERALIZABLE NITROGEN (PPM)	63	75	92	67	75	76
COARSE FRAGMENTS (%)	17.4	29.2	32.9	40.4	24.3	39.1
CORRECTED MINERALIZABLE N	52	53	62	40	57	46
MEASUREMENTAL CHARACTERISTICS:						
AT TIME OF TREATMENT (1981) STAND AGE = 80						
LIVE TREES PER ACRE	240	270	240	380	310	350
LIVE BASAL AREA (SQ. FT/A)	134.9	172.2	173.2	189.4	146.4	190.3
LIVE TOTAL VOLUME (CU. FT/A)	3367	4555	4555	4797	3704	4795
CROWN COMPETITION FACTOR	153	194	180	218	178	216
RELATIVE DENSITY INDEX	42.3	52.4	51.1	61.3	48.0	60.2
MEAN DIAMETER (IN)	10.1	10.9	11.5	9.6	9.3	10.0
SITE HEIGHT (FEET)	75.4	77.0	76.1	76.9	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	181.6	182.3	199.0	155.3	200.4
LIVE TOTAL VOLUME (CU. FT/A)	3742	4949	4944	5207	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	10.2
SITE HEIGHT (FEET)	78.4	79.0	79.2	80.1	75.7	78.2
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	0.0	0.0	0.0
TCPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

PLOT SUMMARY REPORT

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

	PLOT NUMBER					
	1	2	3	4	5	6
TREATMENT	400 #	200 #	CONT	CONT	400 #	200 #
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	0	0	0	0	0	5
ASPECT	0	0	0	0	0	210
DOUGLAS-FIR SITE INDEX	53.1	60.4	60.4	63.4	50.8	50.6
VEGETATION SERIES	PSME	PSME	PSME	PSME	PSME	PSME
PARENT MATERIAL	GTILL	GTILL	GTILL	GTILL	GTILL	GTILL
ASH DEPTH (IN)	0	0	0	0	0	0
SOIL DEPTH (IN)	12-24	12-24	12-24	<12	<12	<12
TOTAL NITROGEN (PPM)	3557	3925	3366	3673	3929	3063
TOTAL PHOSPHORUS (PPM)	477	598	609	520	555	589
CARBON (%)	2.8	3.8	3.2	1.9	2.6	3.1
MINERALIZABLE NITROGEN (PPM)	72	86	61	44	62	72
COARSE FRAGMENTS (%)	53.2	47.3	36.5	51.3	59.4	52.2
CORRECTED MINERALIZABLE N	34	45	39	21	25	35
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
SITE HEIGHT (FEET)	85.3	81.7	85.2	83.6	75.3	67.5
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	86.1	97.9	100.0	100.0	100.0	100.0
PONDEROSA PINE	13.9	2.0	0.0	0.0	0.0	0.0
2 YEARS AFTER TREATMENT (1983)						
LIVE TREES PER ACRE	220	180	250	220	240	270
LIVE BASAL AREA (SQ. FT/A)	170.6	149.1	182.5	163.4	129.0	133.5
CROWN COMPETITION FACTOR	172	150	199	173	146	157
RELATIVE DENSITY INDEX	49.4	42.5	53.7	47.8	40.9	43.3
MEAN DIAMETER (IN)	11.9	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	168.3	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)	12.0	12.5	11.3	11.9	10.1	9.7
SITE HEIGHT (FEET)	88.1	85.3	87.0	85.0	77.2	70.5
DEAD TREES PER ACRE	10	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	5.5	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	182	0	0	0	0	0
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.4	0.0

PLOT SUMMARY REPORT

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

TREATMENT	PLOT NUMBER					
	1	2	3	4	5	6
	CONT	200 #	400 #	400 #	200 #	CONT
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	54	54	43	65	65	50
ASPECT	315	305	300	300	270	260
DOUGLAS-FIR SITE INDEX	73.3	72.4	75.1	74.9	60.7	68.8
VEGETATION SERIES	ABGR	ABGR	ABGR	ABGR	ABGR	PSME
PARENT MATERIAL	VPILL	VPILL	VPILL	VPILL	VPILL	VPILL
ASH DEPTH (IN)	0	0	0	0	0	0
SOIL DEPTH (IN)	<12	<12	<12	<12	<12	<12
TOTAL NITROGEN (PPM)	2485	2601	2177	1858	2340	4319
TOTAL PHOSPHORUS (PPM)	1889	1418	3010	475	331	495
CARBON (%)	1.8	1.4	1.7	1.7	2.3	2.5
MINERALIZABLE NITROGEN (PPM)	51	49	48	67	100	91
COARSE FRAGMENTS (%)	52.5	42.5	42.4	55.0	51.6	28.1
CORRECTED MINERALIZABLE N	24	28	28	30	48	66
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	385
CROWN COMPETITION FACTOR	70	70	57	52	45	78
RELATIVE DENSITY INDEX	22.3	21.5	16.6	16.2	13.3	23.3
MEAN DIAMETER (IN)	6.3	6.6	7.1	5.9	5.7	6.8
SITE HEIGHT (FEET)	43.7	46.0	44.9	38.9	32.5	40.4
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	68.4	78.5	94.8	82.2	93.5	86.0
WESTERN LARCH	8.5	19.3	5.2	3.4	3.3	11.6
LODGEPOLE PINE	23.0	2.2	0.0	11.0	2.7	2.4
PONDEROSA PINE	0.0	0.0	0.0	3.4	0.0	0.0
2 YEARS AFTER TREATMENT (1983)						
LIVE TREES PER ACRE	260	230	160	210	180	240
LIVE BASAL AREA (SQ. FT/A)	63.2	66.7	53.1	47.6	39.0	69.4
CROWN COMPETITION FACTOR	78	82	67	61	53	87
RELATIVE DENSITY INDEX	24.5	24.7	19.0	18.8	15.5	25.7
MEAN DIAMETER (IN)	6.7	7.3	7.8	6.4	6.3	7.3
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
4 YEARS AFTER TREATMENT (1985)						
LIVE TREES PER ACRE	260	230	160	210	180	240
LIVE BASAL AREA (SQ. FT/A)	68.4	74.4	60.1	53.8	43.9	75.1
LIVE TOTAL VOLUME (CU. FT/A)	1234	1266	1114	862	603	1171
CROWN COMPETITION FACTOR	83	91	74	67	58	94
RELATIVE DENSITY INDEX	26.0	26.8	20.9	20.6	17.0	27.3
MEAN DIAMETER (IN)	6.9	7.7	8.3	6.9	6.7	7.6
SITE HEIGHT (FEET)	48.0	51.7	49.5	43.3	36.6	43.7
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
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

PLOT SUMMARY REPORT

INSTALLATION 239 WAHA #2
 REGION: NORTHEAST OREGON
 LEGAL DESCRIPTION: T33N R4W

OWNERSHIP: POTLATCH
 SECTION 10 MERIDIAN: BOISE

	PLOT NUMBER					
	1	2	3	4	5	6
TREATMENT	200 #	CONT	400 #	400 #	200 #	CONT
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	45	55	45	45	35	45
ASPECT	300	315	305	310	290	285
DOUGLAS-FIR SITE INDEX	80.3	71.0	67.8	76.4	68.8	63.2
VEGETATION SERIES	PSME	PSME	PSME	PSME	PSME	PSME
PARENT MATERIAL	BSALT	BSALT	BSALT	BSALT	BSALT	BSALT
ASH DEPTH (IN)	0	0	0	0	0	0
SOIL DEPTH (IN)	12-24	<12	12-24	12-24	<12	<12
TOTAL NITROGEN (PPM)	4221	5295	1470	2260	2679	2156
TOTAL PHOSPHORUS (PPM)	760	801	781	1129	844	843
CARBON (%)	2.5	2.6	2.9	4.3	5.8	4.5
MINERALIZABLE NITROGEN (PPM)	58	53	65	99	81	72
COARSE FRAGMENTS (%)	28.1	7.8	39.1	33.1	41.9	37.2
CORRECTED MINERALIZABLE N	41	49	40	66	47	45
MEASUREMENTAL CHARACTERISTICS:						
AT TIME OF TREATMENT (1981) STAND AGE = 87						
LIVE TREES PER ACRE	120	127	170	140	190	190
LIVE BASAL AREA (SQ. FT/A)	139.3	151.4	228.0	208.4	219.8	183.9
LIVE TOTAL VOLUME (CU. FT/A)	4645	4484	8098	7270	7097	5652
CROWN COMPETITION FACTOR	123	135	200	179	201	175
RELATIVE DENSITY INDEX	36.5	39.3	57.6	51.3	57.6	50.4
MEAN DIAMETER (IN)	14.6	14.8	15.7	16.5	14.6	13.3
SITE HEIGHT (FEET)	102.0	90.0	97.5	102.9	96.8	84.9
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	93.8	98.8	74.5	87.1	88.2	89.2
PONDEROSA PINE	6.2	1.2	25.4	12.9	11.8	11.8
2 YEARS AFTER TREATMENT (1983)						
LIVE TREES PER ACRE	120	120	170	140	190	170
LIVE BASAL AREA (SQ. FT/A)	149.1	156.2	238.0	216.9	226.3	187.0
LIVE TOTAL VOLUME (CU. FT/A)	130	137	206	185	205	173
CROWN COMPETITION FACTOR	33.4	39.7	59.5	52.8	58.9	49.6
RELATIVE DENSITY INDEX	15.1	15.4	16.0	15.9	14.8	14.2
MEAN DIAMETER (IN)	0	7	0	0	0	20
DEAD TREES PER ACRE	0.0	1.8	0.0	0.0	0.0	6.3
DEAD BASAL AREA (SQ. FT/A)						
4 YEARS AFTER TREATMENT (1985)						
LIVE TREES PER ACRE	120	120	150	140	180	170
LIVE BASAL AREA (SQ. FT/A)	158.0	163.3	220.3	225.1	230.4	195.8
LIVE TOTAL VOLUME (CU. FT/A)	5509	5051	7969	8161	7683	6198
CROWN COMPETITION FACTOR	136	143	192	190	207	179
RELATIVE DENSITY INDEX	40.1	41.1	54.4	54.3	58.9	51.4
MEAN DIAMETER (IN)	15.5	15.8	16.4	17.2	15.3	14.5
SITE HEIGHT (FEET)	107.0	94.0	101.3	106.8	102.5	87.4
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	202
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	1.0

PLOT SUMMARY REPORT

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

	PLOT NUMBER					
	1	2	3	4	5	6
TREATMENT	400 #	CONT	200 #	CONT	200 #	400 #
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	25	30	35	0	0	0
ASPECT	260	270	215	0	0	0
DOUGLAS-FIR SITE INDEX	86.4	88.5	82.1	87.1	89.9	94.4
VEGETATION SERIES	THPL	THPL	THPL	THPL	THPL	THPL
PARENT MATERIAL	ASH/M	ASH/M	ASH/M	ASH/M	ASH/M	ASH/M
ASH DEPTH (IN)	3-12	3-12	3-12	3-12	3-12	3-12
SOIL DEPTH (IN)	>24	>24	>24	>24	>24	>24
TOTAL NITROGEN (PPM)	1142	943	1037	1281	1269	1037
TOTAL PHOSPHORUS (PPM)	791	435	624	636	423	491
CARBON (%)	2.6	2.4	2.3	2.5	2.7	2.1
MINERALIZABLE NITROGEN (PPM)	38	39	43	63	55	41
COARSE FRAGMENTS (%)	8.9	13.1	13.3	0.0	18.2	5.4
CORRECTED MINERALIZABLE N	34	34	37	63	45	39
MENSURATIONAL CHARACTERISTICS:						
AT TIME OF TREATMENT (1981) STAND AGE = 41						
LIVE TREES PER ACRE	360	410	350	280	310	360
LIVE BASAL AREA (SQ. FT/A)	122.5	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	36.5	47.7	52.1	59.4
MEAN DIAMETER (IN)	7.9	8.9	7.2	9.9	9.8	9.7
SITE HEIGHT (FEET)	67.0	70.0	55.8	74.5	73.3	79.0
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	65.1	92.2	91.0	83.9	61.5	79.5
GRAND FIR	3.8	0.0	4.8	1.1	6.9	4.2
WESTERN REDCEDAR	8.1	0.0	3.3	0.0	0.0	0.0
WESTERN LARCH	19.2	7.8	0.0	15.1	29.3	16.2
WESTERN WHITE PINE	3.9	0.0	0.0	0.0	1.9	0.0
2 YEARS AFTER TREATMENT (1983)						
LIVE TREES PER ACRE	360	410	340	280	310	360
LIVE BASAL AREA (SQ. FT/A)	139.1	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	55.5	63.5
MEAN DIAMETER (IN)	8.4	9.3	7.8	10.3	10.3	10.2
DEAD TREES PER ACRE	0	0	10	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	3.5	0.0	0.0	0.0
4 YEARS AFTER TREATMENT (1985)						
LIVE TREES PER ACRE	350	410	340	280	310	360
LIVE BASAL AREA (SQ. FT/A)	150.2	206.2	128.3	174.6	192.8	218.8
LIVE TOTAL VOLUME (CU. FT/A)	3580	5413	2873	4880	5617	6494
CROWN COMPETITION FACTOR	170	238	161	192	207	247
RELATIVE DENSITY INDEX	50.4	66.5	44.5	53.4	59.0	67.3
MEAN DIAMETER (IN)	8.9	9.6	8.3	10.7	10.7	10.6
SITE HEIGHT (FEET)	73.9	76.5	63.2	81.3	80.4	86.4
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
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	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
TREATMENT	200 #	400 #	CONT	CONT	200 #	400 #
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	5	5	5	5	0	0
ASPECT	70	10	40	55	0	0
DOUGLAS-FIR SITE INDEX	70.3	45.8	71.2	64.0	61.0	59.0
VEGETATION SERIES	PSME	PSME	PSME	PSME	PSME	PSME
PARENT MATERIAL	GTILL	GTILL	GTILL	GTILL	GTILL	GTILL
ASH DEPTH (IN)	>12	>12	>12	>12	>12	>12
SOIL DEPTH (IN)	>24	>24	>24	>24	>24	>24
TOTAL NITROGEN (PPM)	327	352	336	598	410	287
TOTAL PHOSPHORUS (PPM)	1149	1115	1190	1083	1134	1122
CARBON (%)	1.0	1.2	1.0	1.2	1.1	0.8
MINERALIZABLE NITROGEN (PPM)	36	26	27	18	19	20
COARSE FRAGMENTS (%)	8.4	5.6	9.5	4.7	0.0	6.3
CORRECTED MINERALIZABLE N	33	24	24	17	19	18
MEASUREMENTAL 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	2169	3372	2686
CROWN COMPETITION FACTOR	152	145	93	122	159	150
RELATIVE DENSITY INDEX	45.7	43.2	26.6	34.0	43.5	43.7
MEAN DIAMETER (IN)	8.1	8.2	7.7	8.1	9.3	8.2
SITE HEIGHT (FEET)	60.6	62.7	56.7	62.9	73.1	63.9
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	76.6	78.8	94.5	100.0	98.6	84.8
WESTERN LARCH	0.0	0.0	0.0	0.0	0.0	2.4
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	43.2
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)	146.4	155.7	89.4	115.3	157.3	161.7
LIVE TOTAL VOLUME (CU. FT/A)	3468	3759	2021	2732	4187	3991
CROWN COMPETITION FACTOR	169	175	109	141	182	188
RELATIVE DENSITY INDEX	49.1	51.4	30.8	38.3	49.4	52.9
MEAN DIAMETER (IN)	8.9	9.2	8.4	8.8	10.1	9.3
SITE HEIGHT (FEET)	63.9	67.8	60.1	67.6	77.4	69.8
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
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

PLOT SUMMARY REPORT

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

TREATMENT	PLOT NUMBER					
	1	2	3	4	5	6
	400 #	CONT	200 #	400 #	200 #	CONT
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	20	20	15	20	20	20
ASPECT	270	258	296	260	260	280
DOUGLAS-FIR SITE INDEX	37.1	43.6	52.7	44.3	49.3	59.4
VEGETATION SERIES	PSME	PSME	PSME	PSME	PSME	PSME
PARENT MATERIAL	GTILL	GTILL	GTILL	GTILL	GTILL	GTILL
ASH DEPTH (IN)	<3	<3	<3	<3	<3	<3
SOIL DEPTH (IN)	<12	12-24	12-24	12-24	12-24	12-24
TOTAL NITROGEN (PPM)	906	656	653	579	779	628
TOTAL PHOSPHORUS (PPM)	1001	854	1021	667	910	801
CARBON (%)	1.5	1.5	1.4	1.5	1.3	1.5
MINERALIZABLE NITROGEN (PPM)	64	46	48	47	51	57
COARSE FRAGMENTS (%)	31.5	29.5	29.0	29.6	25.3	25.7
CORRECTED MINERALIZABLE N	44	33	34	33	37	43
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	43.6	41.6	63.0	53.5
MEAN DIAMETER (IN)	7.0	7.3	6.9	8.6	7.8	8.6
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	98.4
LODGEPOLE PINE	4.1	16.2	12.7	0.0	0.0	1.5
2 YEARS AFTER TREATMENT (1983)						
LIVE TREES PER ACRE	460	400	500	300	530	390
LIVE BASAL AREA (SQ. FT/A)	132.3	124.2	138.0	131.5	184.3	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)	3458	3313	3792	3512	4678	4439
CROWN COMPETITION FACTOR	183	161	179	167	233	196
RELATIVE DENSITY INDEX	51.9	46.9	53.9	46.1	67.6	56.3
MEAN DIAMETER (IN)	7.5	7.7	7.3	9.3	8.2	8.9
SITE HEIGHT (FEET)	70.8	70.3	75.3	73.6	71.7	79.3
DEAD TREES PER ACRE	10	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	4.1	0.0	0.0	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	81	0	0	0	0	0
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

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
TREATMENT	CONT	200 #	400 #	400 #	200 #	CONT
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	20	15	5	20	25	20
ASPECT	325	285	325	290	285	315
DOUGLAS-FIR SITE INDEX	55.4	54.5	59.6	65.5	69.2	65.7
VEGETATION SERIES	PSME	PSME	PSME	PSME	PSME	PSME
PARENT MATERIAL	GTILL	GTILL	GTILL	GTILL	GTILL	GTILL
ASH DEPTH (IN)	3-12	3-12	3-12	3-12	3-12	3-12
SOIL DEPTH (IN)	12-24	>24	>24	12-24	12-24	12-24
TOTAL NITROGEN (PPM)	1156	1233	1076	1470	1142	1357
TOTAL PHOSPHORUS (PPM)	968	2429	1762	1066	1122	1322
CARBON (%)	2.8	2.6	2.9	3.3	2.9	3.2
MINERALIZABLE NITROGEN (PPM)	75	93	84	61	97	80
COARSE FRAGMENTS (%)	25.3	23.8	38.2	23.6	21.3	27.3
CORRECTED MINERALIZABLE N	56	71	52	47	77	58
MEASUREMENTAL CHARACTERISTICS:						
AT TIME OF TREATMENT (1981)	STAND AGE = 73					
LIVE TREES PER ACRE	220	210	300	220	260	230
LIVE BASAL AREA (SQ. FT/A)	101.3	106.7	129.9	154.3	146.0	143.4
LIVE TOTAL VOLUME (CU. FT/A)	2412	2478	2978	4414	3726	4090
CROWN COMPETITION FACTOR	122	122	152	169	172	163
RELATIVE DENSITY INDEX	33.4	34.3	43.5	45.9	45.8	43.8
MEAN DIAMETER (IN)	9.2	9.6	8.9	11.4	10.1	10.7
SITE HEIGHT (FEET)	68.8	65.3	68.4	31.2	72.8	85.4
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	94.6	80.5	89.5	98.1	100.0	93.8
WESTERN LARCH	5.4	13.8	9.4	1.9	0.0	6.2
PONDEROSA PINE	0.0	5.7	1.1	0.0	0.0	0.0
2 YEARS AFTER TREATMENT (1983)						
LIVE TREES PER ACRE	220	210	300	220	250	230
LIVE BASAL AREA (SQ. FT/A)	108.5	115.6	139.4	163.5	151.9	152.0
CROWN COMPETITION FACTOR	128	131	163	178	175	171
RELATIVE DENSITY INDEX	35.2	36.5	45.9	47.8	46.3	45.8
MEAN DIAMETER (IN)	9.5	10.0	9.2	11.7	10.6	11.0
DEAD TREES PER ACRE	0	0	0	0	10	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	2.4	0.0
4 YEARS AFTER TREATMENT (1985)						
LIVE TREES PER ACRE	200	210	290	200	250	220
LIVE BASAL AREA (SQ. FT/A)	107.0	123.9	149.0	164.6	161.5	155.4
LIVE TOTAL VOLUME (CU. FT/A)	2708	3082	3629	4921	4379	4632
CROWN COMPETITION FACTOR	124	138	173	176	184	171
RELATIVE DENSITY INDEX	34.0	38.4	47.8	47.0	48.9	46.1
MEAN DIAMETER (IN)	9.9	10.4	9.7	12.3	10.9	11.4
SITE HEIGHT (FEET)	73.6	70.1	72.1	85.9	78.1	89.9
DEAD TREES PER ACRE	20	0	10	20	10	10
DEAD BASAL AREA (SQ. FT/A)	7.6	0.0	1.4	6.8	2.4	4.6
DEAD TOTAL VOLUME (CU. FT/A)	175	0	20	170	58	123
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

PLOT SUMMARY REPORT

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

TREATMENT	PLOT NUMBER					
	1 200 #	2 400 #	3 CONT	4 400 #	5 200 #	6 CONT
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	30	30	30	35	40	45
ASPECT	280	280	320	270	310	290
DOUGLAS-FIR SITE INDEX	54.8	64.9	59.3	65.1	70.2	58.6
VEGETATION SERIES	PSME	PSME	PSME	PSME	PSME	PSME
PARENT MATERIAL	GRAN	GRAN	GRAN	GRAN	GRAN	GRAN
ASH DEPTH (IN)	0	0	0	0	0	0
SOIL DEPTH (IN)	>24	>24	>24	>24	12-24	>24
TOTAL NITROGEN (PPM)	1905	4342	3599	4498	4496	4184
TOTAL PHOSPHORUS (PPM)	706	604	610	447	446	409
CARBON (%)	2.8	3.4	2.7	3.2	2.5	3.2
MINERALIZABLE NITROGEN (PPM)	71	68	81	67	78	67
COARSE FRAGMENTS (%)	19.8	29.9	21.0	25.4	20.5	21.4
CORRECTED MINERALIZABLE N	57	48	64	50	62	52
MENSURATIONAL CHARACTERISTICS:						
AT TIME OF TREATMENT (1981) STAND AGE = 90						
LIVE TREES PER ACRE	140	130	180	280	290	220
LIVE BASAL AREA (SQ. FT/A)	264.7	263.9	265.2	286.7	300.8	251.9
LIVE TOTAL VOLUME (CU. FT/A)	7697	8474	9416	8305	9232	6796
CROWN COMPETITION FACTOR	223	219	234	275	299	240
RELATIVE DENSITY INDEX	61.3	60.1	65.4	77.5	81.0	66.2
MEAN DIAMETER (IN)	18.6	19.3	16.4	13.7	13.8	14.5
SITE HEIGHT (FEET)	88.1	98.0	108.8	89.3	94.2	84.6
SPECIES COMPOSITION (% 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	62.4	61.1	66.4	78.4	82.1	67.3
MEAN DIAMETER (IN)	18.8	19.5	16.6	13.8	13.9	14.7
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	278.1	278.2	297.6	313.7	263.4
LIVE TOTAL VOLUME (CU. FT/A)	8506	9282	10217	9002	9981	7445
CROWN COMPETITION FACTOR	232	228	242	282	308	247
RELATIVE DENSITY INDEX	63.3	62.5	67.3	79.7	83.6	68.4
MEAN DIAMETER (IN)	19.1	19.8	16.8	14.0	14.1	14.3
SITE HEIGHT (FEET)	92.3	101.5	112.7	87.9	97.9	88.6
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
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

PLOT SUMMARY REPORT

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

TREATMENT	PLOT NUMBER					
	1	2	3	4	5	6
	400 #	200 #	CONT	200 #	CONT	400 #
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	25	10	10	25	25	15
ASPECT	55	20	40	110	72	25
DOUGLAS-FIR SITE INDEX	61.0	67.1	66.1	61.7	57.2	60.8
VEGETATION SERIES	PSME	PSME	PSME	PSME	PSME	PSME
PARENT MATERIAL	BSALT	BSALT	BSALT	BSALT	BSALT	BSALT
ASH DEPTH (IN)	0	0	0	0	0	0
SOIL DEPTH (IN)	12-24	12-24	<12	<12	12-24	12-24
TOTAL NITROGEN (PPM)	4198	3091	5089	5576	3657	3707
TOTAL PHOSPHORUS (PPM)	719	749	597	316	264	607
CARBON (%)	2.4	1.8	3.0	5.6	2.4	2.3
MINERALIZABLE NITROGEN (PPM)	51	74	99	69	62	57
COARSE FRAGMENTS (%)	27.5	28.7	32.7	25.6	27.4	32.7
CORRECTED MINERALIZABLE N	37	53	67	51	45	38
MENSURATIONAL CHARACTERISTICS:						
AT TIME OF TREATMENT (1981)	STAND AGE = 52					
LIVE TREES PER ACRE	150	170	220	340	330	300
LIVE BASAL AREA (SQ. FT/A)	216.1	178.2	168.3	202.4	142.0	243.2
LIVE TOTAL VOLUME (CU. FT/A)	4619	3681	3252	3751	2533	4891
CROWN COMPETITION FACTOR	196	177	178	227	167	253
RELATIVE DENSITY INDEX	53.6	47.9	48.9	62.6	47.6	69.6
MEAN DIAMETER (IN)	16.3	13.9	11.8	10.4	3.9	12.2
SITE HEIGHT (FEET)	65.3	62.1	56.8	55.5	53.3	59.7
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	100.0	100.0	100.0	100.0	100.0	100.0
2 YEARS AFTER TREATMENT (1983)						
LIVE TREES PER ACRE	150	170	220	340	330	300
LIVE BASAL AREA (SQ. FT/A)	224.1	185.8	174.1	211.4	147.4	253.2
CROWN COMPETITION FACTOR	202	182	182	234	172	260
RELATIVE DENSITY INDEX	55.1	49.4	50.2	64.7	49.0	71.8
MEAN DIAMETER (IN)	16.6	14.2	12.0	10.7	9.0	12.4
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
4 YEARS AFTER TREATMENT (1985)						
LIVE TREES PER ACRE	150	170	200	300	310	300
LIVE BASAL AREA (SQ. FT/A)	231.6	194.5	174.3	205.9	147.3	264.5
LIVE TOTAL VOLUME (CU. FT/A)	5282	4299	3566	4017	2813	5675
CROWN COMPETITION FACTOR	207	188	179	224	169	268
RELATIVE DENSITY INDEX	56.5	51.1	49.0	61.5	48.2	74.2
MEAN DIAMETER (IN)	16.8	14.5	12.6	11.2	9.3	12.7
SITE HEIGHT (FEET)	66.6	66.8	59.7	58.9	57.2	65.1
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)	0	0	101	240	107	0
TOPKILL VOLUME (CU. FT/A)	1.8	0.0	2.4	4.2	0.7	7.7

PLOT SUMMARY REPORT

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

TREATMENT	PLOT NUMBER					
	1	2	3	4	5	6
	CONT	200 #	400 #	200 #	400 #	CONT
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	20	30	40	45	55	40
ASPECT	25	345	10	335	355	10
DOUGLAS-FIR SITE INDEX	96.4	91.6	90.3	89.9	92.4	91.6
VEGETATION SERIES	PSME	PSME	PSME	PSME	PSME	PSME
PARENT MATERIAL	GTILL	GTILL	GTILL	GTILL	GTILL	GTILL
ASH DEPTH (IN)	<3	+	<3	<3	0	0
SOIL DEPTH (IN)	>24	>24	>24	12-24	12-24	12-24
TOTAL NITROGEN (PPM)	2598	3235	2294	3509	4218	3784
TOTAL PHOSPHORUS (PPM)	632	689	580	1676	1161	2716
CARBON (%)	2.5	2.7	2.2	2.5	4.5	3.0
MINERALIZABLE NITROGEN (PPM)	70	52	71	50	59	54
COARSE FRAGMENTS (%)	25.6	27.4	45.1	27.7	31.0	29.3
CORRECTED MINERALIZABLE N	52	38	39	36	41	38
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
SITE HEIGHT (FEET)	51.3	52.2	48.6	64.1	60.7	72.1
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	83.9	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	6.9	8.9	7.6	8.6
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
4 YEARS AFTER TREATMENT (1986)						
LIVE TREES PER ACRE	390	320	490	260	350	250
LIVE BASAL AREA (SQ. FT/A)	118.9	104.7	139.1	121.0	124.3	103.0
LIVE TOTAL VOLUME (CU. FT/A)	2587	2332	2795	3063	2921	2932
CROWN COMPETITION FACTOR	146	128	180	141	156	127
RELATIVE DENSITY INDEX	43.5	37.6	51.8	39.8	43.8	36.2
MEAN DIAMETER (IN)	7.5	7.8	7.2	9.2	8.1	8.9
SITE HEIGHT (FEET)	57.8	58.3	55.0	72.0	66.8	79.1
DEAD TREES PER ACRE	0	0	0	0	20	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	1.3	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	25	0.0
TOPKILL VOLUME (CU. FT/A)	0.0	1.2	0.6	0.0	0.0	0.0

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
TREATMENT	200 #	CONT	400 #	200 #	400 #	CONT
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	10	15	10	10	20	10
ASPECT	100	115	120	105	90	30
DOUGLAS-FIR SITE INDEX	67.6	69.0	67.9	61.5	61.8	65.7
VEGETATION SERIES	PSME	PSME	PSME	PSME	PSME	PSME
PARENT MATERIAL	GTILL	GTILL	GTILL	GTILL	GTILL	GTILL
ASH DEPTH (IN)	3-12	3-12	3-12	3-12	3-12	3-12
SOIL DEPTH (IN)	>24	>24	>24	>24	>24	>24
TOTAL NITROGEN (PPM)	350	1884	1370	1714	1489	2442
TOTAL PHOSPHORUS (PPM)	1413	1455	1331	1353	2184	1340
CARBON (%)	1.6	1.9	1.7	1.9	2.0	2.1
MINERALIZABLE NITROGEN (PPM)	39	50	53	52	67	64
COARSE FRAGMENTS (%)	21.9	21.5	22.4	23.4	26.1	29.1
CORRECTED MINERALIZABLE N	31	39	41	40	50	46
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	3777	3184
CROWN COMPETITION FACTOR	154	135	190	141	145	133
RELATIVE DENSITY INDEX	41.7	37.2	55.2	37.6	41.4	36.8
MEAN DIAMETER (IN)	11.8	10.5	10.4	11.0	10.9	10.8
SITE HEIGHT (FEET)	85.2	81.4	81.4	74.8	79.3	75.1
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	82.9	89.8	73.4	96.8	83.4	95.9
WESTERN LARCH	17.1	4.4	22.6	3.2	0.0	4.0
LODGEPOLE PINE	0.0	5.8	4.0	0.0	0.0	0.0
PONDEROSA PINE	0.0	0.0	0.0	0.0	16.6	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	155	141
RELATIVE DENSITY INDEX	44.2	39.0	57.7	40.4	44.0	39.0
MEAN DIAMETER (IN)	12.2	10.8	10.8	11.5	11.4	11.2
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
4 YEARS AFTER TREATMENT (1986)						
LIVE TREES PER ACRE	190	190	270	170	190	190
LIVE BASAL AREA (SQ. FT/A)	162.7	131.9	181.8	132.9	151.4	136.6
LIVE TOTAL VOLUME (CU. FT/A)	4720	3926	5393	3644	4403	3707
CROWN COMPETITION FACTOR	170	143	188	144	155	147
RELATIVE DENSITY INDEX	46.0	39.3	54.5	38.4	43.5	40.3
MEAN DIAMETER (IN)	12.5	11.3	11.1	12.0	12.1	11.5
SITE HEIGHT (FEET)	89.3	84.7	84.9	78.8	78.9	77.9
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
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

PLOT SUMMARY REPORT

INSTALLATION 248 QUINEY FLAT
 REGION: CENTRAL WASHINGTON OWNERSHIP: BOISE CASCADE
 LEGAL DESCRIPTION: T5N R14E SECTION 1 MERIDIAN: WILLAMETTE

TREATMENT	PLOT NUMBER					
	1 400 #	2 CONT	3 200 #	4 400 #	5 CONT	6 200 #
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	7	5	0	5	5	5
ASPECT	130	186	0	274	127	104
DOUGLAS-FIR SITE INDEX	69.5	65.0	69.3	53.1	60.0	69.0
VEGETATION SERIES	PSME	PSME	PSME	PSME	PSME	PSME
PARENT MATERIAL	BSALT	BSALT	BSALT	BSALT	BSALT	BSALT
ASH DEPTH (IN)	0	0	0	0	0	0
SOIL DEPTH (IN)	>24	>24	>24	>24	>24	>24
TOTAL NITROGEN (PPM)	1139	1156	1116	1258	1194	1249
TOTAL PHOSPHORUS (PPM)	714	1045	653	616	770	643
CARBON (%)	1.1	1.5	1.1	0.5	1.0	1.3
MINERALIZABLE NITROGEN (PPM)	41	39	34	29	13	30
COARSE FRAGMENTS (%)	9.9	12.4	8.1	12.5	8.4	15.5
CORRECTED MINERALIZABLE N	37	34	31	25	12	25
MENSURATIONAL CHARACTERISTICS:						
AT TIME OF TREATMENT (1982) STAND AGE = 64						
LIVE TREES PER ACRE	220	190	210	180	170	170
LIVE BASAL AREA (SQ. FT/A)	129.6	117.3	125.7	106.2	118.5	90.9
LIVE TOTAL VOLUME (CU. FT/A)	3312	2890	3065	2592	3027	2101
CROWN COMPETITION FACTOR	148	137	141	119	131	101
RELATIVE DENSITY INDEX	40.2	36.0	38.8	32.9	35.2	28.9
MEAN DIAMETER (IN)	10.4	10.6	10.5	10.4	11.3	9.9
SITE HEIGHT (FEET)	76.3	71.9	69.4	74.4	74.3	65.0
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	98.6	100.0	92.8	92.9	97.8	81.8
PONDEROSA PINE	1.3	0.0	7.2	7.1	2.2	18.2
2 YEARS AFTER TREATMENT (1984)						
LIVE TREES PER ACRE	220	190	210	180	170	170
LIVE BASAL AREA (SQ. FT/A)	146.1	131.8	142.6	119.9	131.9	106.2
CROWN COMPETITION FACTOR	162	151	157	132	141	116
RELATIVE DENSITY INDEX	44.0	39.2	42.7	36.1	38.2	32.4
MEAN DIAMETER (IN)	11.0	11.3	11.2	11.0	11.9	10.7
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
4 YEARS AFTER TREATMENT (1986)						
LIVE TREES PER ACRE	220	190	210	180	170	170
LIVE BASAL AREA (SQ. FT/A)	157.9	143.2	155.8	128.8	142.8	118.1
LIVE TOTAL VOLUME (CU. FT/A)	4309	3746	4050	3335	3818	2958
CROWN COMPETITION FACTOR	173	160	168	141	149	127
RELATIVE DENSITY INDEX	46.6	41.8	45.6	38.1	40.5	35.2
MEAN DIAMETER (IN)	11.5	11.8	11.7	11.5	12.4	11.3
SITE HEIGHT (FEET)	82.0	77.2	75.1	79.6	79.1	70.5
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
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

PLOT SUMMARY REPORT

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

TREATMENT	PLOT NUMBER					
	1	2	3	4	5	6
	400 #	CONT	200 #	200 #	CONT	400 #
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	0	10	5	0	0	8
ASPECT	0	225	240	0	0	180
DOUGLAS-FIR SITE INDEX	73.5	80.1	74.3	70.0	86.2	80.7
VEGETATION SERIES	ABGR	ABGR	ABGR	ABGR	ABGR	ABGR
PARENT MATERIAL	BSALT	BSALT	BSALT	BSALT	BSALT	BSALT
ASH DEPTH (IN)	0	0	0	0	0	0
SOIL DEPTH (IN)	>24	>24	>24	>24	>24	>24
TOTAL NITROGEN (PPM)	616	643	614	566	468	551
TOTAL PHOSPHORUS (PPM)	1086	1334	718	1175	641	1166
CARBON (%)	1.9	1.4	1.4	1.4	1.2	1.3
MINERALIZABLE NITROGEN (PPM)	28	43	51	43	45	42
COARSE FRAGMENTS (%)	16.3	7.3	9.0	20.5	13.6	7.1
CORRECTED MINERALIZABLE N	24	40	46	34	38	39
MEASUREMENTAL 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
SITE HEIGHT (FEET)	98.2	100.3	104.2	90.9	105.3	93.9
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	53.0	50.4	53.5	55.7
MEAN DIAMETER (IN)	14.6	15.0	14.1	12.1	11.5	11.9
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
4 YEARS AFTER TREATMENT (1986)						
LIVE TREES PER ACRE	140	150	200	220	240	250
LIVE BASAL AREA (SQ. FT/A)	171.6	191.9	231.2	184.9	190.5	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
SITE HEIGHT (FEET)	102.5	102.3	107.1	96.2	109.0	99.6
DEAD TREES PER ACRE	0	0	0	0	10	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.7	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	13	0.0
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

PLOT SUMMARY REPORT

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

TREATMENT	PLOT NUMBER					
	1	2	3	4	5	6
	200 #	400 #	400 #	200 #	CONT	CONT
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	40	35	45	35	40	12
ASPECT	190	152	238	200	228	218
DOUGLAS-FIR SITE INDEX	77.8	73.8	87.2	84.1	87.5	83.5
VEGETATION SERIES	THPL	THPL	THPL	THPL	THPL	THPL
PARENT MATERIAL	ASH/M	ASH/M	ASH/M	ASH/M	ASH/M	ASH/M
ASH DEPTH (IN)	3-12	3-12	>12	3-12	>12	3-12
SOIL DEPTH (IN)	>24	>24	>24	>24	>24	>24
TOTAL NITROGEN (PPM)	980	1506	544	906	1200	1078
TOTAL PHOSPHORUS (PPM)	631	477	350	762	493	377
CARBON (%)	2.1	2.7	1.9	2.3	2.3	1.8
MINERALIZABLE NITROGEN (PPM)	50	82	39	36	48	44
COARSE FRAGMENTS (%)	12.4	15.8	13.0	14.3	10.3	16.2
CORRECTED MINERALIZABLE N	44	69	34	31	43	37
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	133.3	84.3	129.2	113.6
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
SITE HEIGHT (FEET)	57.4	55.2	55.2	55.2	64.2	61.8
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	96.7	98.9	95.9	83.8	95.3	90.3
GRAND FIR	0.4	0.0	3.0	3.0	2.8	9.7
WESTERN REDCEDAR	2.9	0.0	1.2	10.1	0.0	0.0
WESTERN WHITE PINE	0.0	1.1	0.0	3.1	2.0	0.0
2 YEARS AFTER TREATMENT (1984)						
LIVE TREES PER ACRE	340	230	490	270	350	350
LIVE BASAL AREA (SQ. FT/A)	126.4	140.2	167.0	100.1	146.8	135.5
CROWN COMPETITION FACTOR	157	157	213	125	179	171
RELATIVE DENSITY INDEX	44.0	43.1	59.4	34.9	49.6	46.7
MEAN DIAMETER (IN)	8.3	10.6	7.9	8.3	8.8	8.4
DEAD TREES PER ACRE	0	0	0	10	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.5	0.0	0.0
4 YEARS AFTER TREATMENT (1986)						
LIVE TREES PER ACRE	340	210	490	270	330	350
LIVE BASAL AREA (SQ. FT/A)	145.5	160.7	191.0	115.2	161.6	149.8
LIVE TOTAL VOLUME (CU. FT/A)	3007	3473	4059	2446	3812	3360
CROWN COMPETITION FACTOR	179	173	237	142	193	187
RELATIVE DENSITY INDEX	48.9	46.7	65.7	38.7	52.5	50.3
MEAN DIAMETER (IN)	8.9	11.8	8.4	8.8	9.5	8.9
SITE HEIGHT (FEET)	64.2	64.5	62.9	62.0	72.0	67.7
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
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

PLOT SUMMARY REPORT

INSTALLATION 251 GAME CREEK
 REGION: MONTANA OWNERSHIP: CHAMPION
 LEGAL DESCRIPTION: T13N R16W SECTION 30 MERIDIAN: PRINCIPAL

TREATMENT	PLOT NUMBER					
	1	2	3	4	5	6
	200 #	CONT	400 #	200 #	CONT	400 #
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	35	45	45	35	40	40
ASPECT	127	127	102	115	136	136
DOUGLAS-FIR SITE INDEX	66.1	59.2	64.8	65.1	66.6	51.5
VEGETATION SERIES	PSME	PSME	PSME	PSME	PSME	PSME
PARENT MATERIAL	COLLU	COLLU	COLLU	COLLU	COLLU	COLLU
ASH DEPTH (IN)	0	0	0	0	0	0
SOIL DEPTH (IN)	12-24	12-24	12-24	12-24	12-24	12-24
TOTAL NITROGEN (PPM)	923	978	976	1144	1528	1850
TOTAL PHOSPHORUS (PPM)	410	529	512	372	411	412
CARBON (%)	2.3	2.3	2.4	2.7	3.5	3.3
MINERALIZABLE NITROGEN (PPM)	96	105	90	62	54	101
COARSE FRAGMENTS (%)	32.1	37.0	45.6	39.2	44.9	42.4
CORRECTED MINERALIZABLE N	65	66	49	38	30	58
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
SITE HEIGHT (FEET)	56.5	62.8	63.9	71.4	66.2	61.1
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	93.4	92.9	92.5	87.2	87.3	95.6
WESTERN LARCH	0.6	0.0	3.9	11.1	4.4	4.4
LODGEPOLE PINE	0.0	0.0	0.0	1.6	6.5	0.0
PONDEROSA PINE	0.0	7.1	3.6	0.0	1.8	0.0
2 YEARS AFTER TREATMENT (1984)						
LIVE TREES PER ACRE	320	300	260	470	400	610
LIVE BASAL AREA (SQ. FT/A)	119.8	137.0	145.0	182.0	169.9	184.7
CROWN COMPETITION FACTOR	148	157	162	217	198	236
RELATIVE DENSITY INDEX	41.6	45.3	45.6	62.7	57.2	67.7
MEAN DIAMETER (IN)	8.3	9.1	10.1	8.4	8.8	7.4
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
4 YEARS AFTER TREATMENT (1986)						
LIVE TREES PER ACRE	320	300	260	470	400	610
LIVE BASAL AREA (SQ. FT/A)	122.8	140.9	150.1	188.2	174.5	190.1
LIVE TOTAL VOLUME (CU. FT/A)	2482	3099	3527	4446	4010	4215
CROWN COMPETITION FACTOR	151	161	166	222	203	241
RELATIVE DENSITY INDEX	42.4	46.2	46.8	64.3	58.3	69.1
MEAN DIAMETER (IN)	8.4	9.3	10.3	8.6	8.9	7.6
SITE HEIGHT (FEET)	58.8	64.9	67.1	74.9	67.7	63.2
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
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

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
TREATMENT	CONT	200 #	400 #	CONT	200 #	400 #
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	0	0	0	0	0	5
ASPECT	0	0	0	0	0	132
DOUGLAS-FIR SITE INDEX	39.3	39.0	37.4	39.0	43.1	45.9
VEGETATION SERIES	PSME	PSME	PSME	PSME	PSME	PSME
PARENT MATERIAL	ALLUV	ALLUV	ALLUV	ALLUV	ALLUV	ALLUV
ASH DEPTH (IN)	0	0	0	0	0	0
SOIL DEPTH (IN)	12-24	12-24	12-24	12-24	<12	>24
TOTAL NITROGEN (PPM)	959	986	901	896	1193	618
TOTAL PHOSPHORUS (PPM)	574	574	495	475	553	483
CARBON (%)	1.8	1.8	1.8	1.7	2.0	1.3
MINERALIZABLE NITROGEN (PPM)	59	42	36	46	75	31
COARSE FRAGMENTS (%)	50.7	41.1	49.5	43.4	42.4	26.4
CORRECTED MINERALIZABLE N	29	25	18	26	43	23
MENSURATIONAL CHARACTERISTICS:						
AT TIME OF TREATMENT (1932)	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	52.9	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
SITE HEIGHT (FEET)	63.4	51.6	52.1	56.4	57.9	71.7
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	69.0	91.3	100.0	83.8	80.7	59.0
WESTERN LARCH	6.7	0.0	0.0	0.0	0.0	9.1
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	1.4
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	3.3	7.3	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	8.9
SITE HEIGHT (FEET)	65.7	54.3	54.7	68.5	60.7	73.8
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
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	7.5

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
TREATMENT	CONT	200 #	400 #	200 #	400 #	CONT
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	50	45	45	55	40	40
ASPECT	20	45	310	290	315	295
DOUGLAS-FIR SITE INDEX	104.9	97.2	94.3	93.7	99.6	88.3
VEGETATION SERIES	THPL	THPL	THPL	THPL	THPL	THPL
PARENT MATERIAL	ASH/M	ASH/M	ASH/M	ASH/M	ASH/M	ASH/M
ASH DEPTH (IN)	>12	>12	>12	>12	>12	>12
SOIL DEPTH (IN)	>24	>24	>24	>24	>24	>24
TOTAL NITROGEN (PPM)	1254	1169	921	1082	1191	2975
TOTAL PHOSPHORUS (PPM)	690	461	498	500	543	1069
CARBON (%)	2.4	2.5	1.8	2.2	2.6	2.6
MINERALIZABLE NITROGEN (PPM)	101	66	36	47	58	64
COARSE FRAGMENTS (%)	18.4	14.6	13.7	15.2	23.6	12.8
CORRECTED MINERALIZABLE N	83	56	31	40	44	56
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)	8077	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
SITE HEIGHT (FEET)	107.5	103.2	89.3	92.5	98.4	118.1
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	79.0	77.9	47.3	70.6	62.8	85.6
GRAND FIR	21.0	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)	9348	8600	7027	7803	8534	8821
CROWN COMPETITION FACTOR	244	234	231	236	256	216
RELATIVE DENSITY INDEX	64.8	61.4	59.7	62.4	69.1	57.6
MEAN DIAMETER (IN)	13.5	13.4	12.1	12.8	12.1	15.1
SITE HEIGHT (FEET)	113.3	109.9	93.9	97.7	103.9	122.0
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
TCPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

PLOT SUMMARY REPORT

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

TREATMENT	PLOT NUMBER					
	1	2	3	4	5	6
	200 #	400 #	CONT	CONT	200 #	400 #

SITE AND SOIL CHARACTERISTICS:

SLOPE (%)	15	20	30	25	18	20
ASPECT	345	352	338	318	346	350
DOUGLAS-FIR SITE INDEX	92.0	91.4	81.9	91.1	99.6	38.7
VEGETATION SERIES	THPL	THPL	THPL	THPL	THPL	THPL
PARENT MATERIAL	ASH/M	ASH/M	ASH/M	ASH/M	ASH/M	ASH/M
ASH DEPTH (IN)	>12	>12	>12	>12	>12	>12
SOIL DEPTH (IN)	>24	>24	>24	>24	>24	>24
TOTAL NITROGEN (PPM)	2371	2242	1997	2023	1870	1560
TOTAL PHOSPHORUS (PPM)	926	776	663	930	370	1400
CARBON (%)	2.4	2.0	1.7	2.3	2.2	2.1
MINERALIZABLE NITROGEN (PPM)	50	76	47	45	55	38
COARSE FRAGMENTS (%)	9.6	16.4	9.8	9.2	12.2	21.4
CORRECTED MINERALIZABLE N	45	64	42	41	48	30

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	1519	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
SITE HEIGHT (FEET)	52.4	48.7	45.0	46.1	53.1	46.1
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	71.9	59.0	73.3	93.3	73.4	59.6
GRAND FIR	28.1	17.3	20.2	4.0	11.2	15.8
WESTERN REDCEDAR	0.0	16.4	4.3	1.1	12.1	22.4
WESTERN LARCH	0.0	7.3	2.2	1.5	3.2	2.1

2 YEARS AFTER TREATMENT (1984)

LIVE TREES PER ACRE	610	380	600	360	360	440
LIVE BASAL AREA (SQ. FT/A)	135.6	103.8	107.2	91.5	124.4	115.2
CROWN COMPETITION FACTOR	196	134	157	121	156	155
RELATIVE DENSITY INDEX	53.7	39.0	44.8	35.0	44.1	43.8
MEAN DIAMETER (IN)	6.4	7.1	5.7	6.8	8.0	6.9
DEAD TREES PER ACRE	0	0	0	0	0	10
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	3.0

4 YEARS AFTER TREATMENT (1986)

LIVE TREES PER ACRE	610	380	600	360	360	440
LIVE BASAL AREA (SQ. FT/A)	155.4	123.3	121.3	105.0	143.2	138.4
LIVE TOTAL VOLUME (CU. FT/A)	3344	2482	2343	2002	3010	2591
CROWN COMPETITION FACTOR	220	161	173	136	179	184
RELATIVE DENSITY INDEX	59.4	44.4	49.2	38.8	49.0	50.2
MEAN DIAMETER (IN)	6.8	7.7	6.1	7.3	8.5	7.6
SITE HEIGHT (FEET)	61.6	54.4	51.4	52.9	61.4	51.1
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	3.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	0	0	0	46
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

PLOT SUMMARY REPORT

INSTALLATION 255 BIRCH CREEK
 REGION: NORTHERN IDAHO OWNERSHIP: INLAND EMPIRE
 LEGAL DESCRIPTION: T53N R5W SECTION 2 MERIDIAN: BOISE

	PLOT NUMBER					
	1	2	3	4	5	6
TREATMENT	CONT	200 #	400 #	CONT	200 #	400 #
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	30	15	15	10	20	25
ASPECT	230	165	140	144	145	200
DOUGLAS-FIR SITE INDEX	85.1	83.8	84.7	82.5	86.5	81.6
VEGETATION SERIES	ABGR	ABGR	ABGR	THPL	THPL	ABGR
PARENT MATERIAL	ASH/M	ASH/M	ASH/M	ASH/M	ASH/M	ASH/M
ASH DEPTH (IN)	>12	>12	>12	>12	>12	>12
SOIL DEPTH (IN)	>24	>24	>24	>24	12-24	>24
TOTAL NITROGEN (PPM)	1774	2134	2021	1570	1821	1010
TOTAL PHOSPHORUS (PPM)	161	457	834	1040	1088	690
CARBON (%)	1.5	2.1	2.5	1.7	1.5	1.7
MINERALIZABLE NITROGEN (PPM)	56	59	68	47	42	48
COARSE FRAGMENTS (%)	9.9	9.5	8.7	6.4	7.8	6.5
CORRECTED MINERALIZABLE N	50	53	62	44	39	45
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	139.8	156.0	168.4
LIVE TOTAL VOLUME (CU. FT/A)	3490	3809	3713	4032	3221	3470
CROWN COMPETITION FACTOR	234	258	227	245	203	207
RELATIVE DENSITY INDEX	70.7	75.0	66.5	70.4	61.3	62.9
MEAN DIAMETER (IN)	6.4	6.6	6.9	7.3	6.5	7.2
SITE HEIGHT (FEET)	53.0	54.0	56.7	58.7	56.0	64.1
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	4.3	7.3	13.1
LODGEPOLE PINE	0.0	0.0	0.0	0.0	3.3	3.0
PONDEROSA PINE	12.8	0.0	0.0	0.0	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)	197.3	213.2	194.6	207.7	173.1	186.8
CROWN COMPETITION FACTOR	252	282	246	262	222	225
RELATIVE DENSITY INDEX	76.0	80.9	71.8	75.4	66.0	67.9
MEAN DIAMETER (IN)	6.3	6.9	7.3	7.6	6.9	7.5
DEAD TREES PER ACRE	0	0	10	0	10	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	1.0	0.0	2.6	0.0
4 YEARS AFTER TREATMENT (1986)						
LIVE TREES PER ACRE	760	750	620	590	560	570
LIVE BASAL AREA (SQ. FT/A)	209.6	222.0	207.2	213.0	168.3	202.4
LIVE TOTAL VOLUME (CU. FT/A)	4459	4769	4312	4944	3811	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	7.3	8.1	7.4	8.1
SITE HEIGHT (FEET)	59.0	61.2	63.7	64.7	63.1	70.7
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)	111	198	130	254	470	42
TOPKILL VOLUME (CU. FT/A)	0.8	0.0	1.1	0.4	0.8	1.7

PLOT SUMMARY REPORT

INSTALLATION 256 SLY MEADOWS
 REGION: NORTHERN IDAHO
 LEGAL DESCRIPTION: T46N R1E SECTION 31

OWNERSHIP: INLAND EMPIRE
 MERIDIAN: BOISE

TREATMENT	PLOT NUMBER					
	1	2	3	4	5	6
	CONT	200 #	400 #	CONT	400 #	200 #
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	10	10	35	5	10	10
ASPECT	204	226	357	248	155	154
DOUGLAS-FIR SITE INDEX	84.8	99.5	85.4	92.4	108.0	90.7
VEGETATION SERIES	TSHE	TSHE	TSHE	TSHE	TSHE	TSHE
PARENT MATERIAL	ASH/M	ASH/M	ASH/M	ASH/M	ASH/M	ASH/M
ASH DEPTH (IN)	>12	>12	3-12	>12	3-12	3-12
SOIL DEPTH (IN)	>24	>24	>24	>24	>24	>24
TOTAL NITROGEN (PPM)	1796	2514	1871	1902	2161	3087
TOTAL PHOSPHORUS (PPM)	1103	1320	671	1071	2743	3013
CARBON (%)	2.6	2.8	2.0	2.2	2.6	2.8
MINERALIZABLE NITROGEN (PPM)	66	76	65	44	79	62
COARSE FRAGMENTS (%)	17.0	20.0	11.2	13.8	31.1	19.5
CORRECTED MINERALIZABLE N	55	61	58	38	54	50
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	4937	4573	3554
CROWN COMPETITION FACTOR	229	209	241	224	231	173
RELATIVE DENSITY INDEX	67.2	59.4	66.3	65.9	70.7	50.8
MEAN DIAMETER (IN)	7.5	7.4	7.4	8.1	7.0	7.5
SITE HEIGHT (FEET)	70.4	70.5	71.3	82.1	75.2	69.3
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	64.2	54.4	58.3	70.5	68.8	44.8
GRAND FIR	18.5	29.3	24.9	21.7	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	3.0
DEAD TREES PER ACRE	0	10	20	0	0	10
DEAD BASAL AREA (SQ. FT/A)	0.0	0.4	1.1	0.0	0.0	3.2
4 YEARS AFTER TREATMENT (1986)						
LIVE TREES PER ACRE	540	440	490	510	480	380
LIVE BASAL AREA (SQ. FT/A)	208.2	171.7	210.2	212.5	165.6	160.4
LIVE TOTAL VOLUME (CU. FT/A)	5353	4807	5712	6015	4516	4520
CROWN COMPETITION FACTOR	250	212	263	245	195	192
RELATIVE DENSITY INDEX	71.8	59.0	70.6	71.9	58.7	54.1
MEAN DIAMETER (IN)	8.4	8.5	8.9	8.7	7.9	8.8
SITE HEIGHT (FEET)	77.6	79.5	79.2	88.8	82.1	73.3
DEAD TREES PER ACRE	60	100	110	10	220	70
DEAD BASAL AREA (SQ. FT/A)	4.3	14.6	10.0	0.5	43.3	8.3
DEAD TOTAL VOLUME (CU. FT/A)	62	282	174	6	904	147
TOPKILL VOLUME (CU. FT/A)	6.9	1.2	1.6	0.1	5.4	2.8

PLOT SUMMARY REPORT

INSTALLATION 257 LITTLE CATHERINE CR
 REGION: NORTHEAST OREGON OWNERSHIP: BOISE CASCADE
 LEGAL DESCRIPTION: T4S R41E SECTION 28 MERIDIAN: WILLAMETTE

TREATMENT	PLOT NUMBER					
	1 200 #	2 CONT	3 400 #	4 200 #	5 400 #	6 CONT
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	35	40	50	45	30	30
ASPECT	118	118	128	112	112	145
DOUGLAS-FIR SITE INDEX	53.1	64.1	61.9	49.4	57.5	50.1
VEGETATION SERIES	ABGR	ABGR	ABGR	ABGR	ABGR	ABGR
PARENT MATERIAL	BSALT	BSALT	BSALT	BSALT	BSALT	BSALT
ASH DEPTH (IN)	0	0	0	0	0	0
SOIL DEPTH (IN)	12-24	12-24	12-24	12-24	12-24	12-24
TOTAL NITROGEN (PPM)	4583	3284	3240	2961	1532	1401
TOTAL PHOSPHORUS (PPM)	1542	1824	1483	744	588	624
CARBON (%)	3.5	3.1	2.6	2.8	3.0	3.4
MINERALIZABLE NITROGEN (PPM)	87	72	87	80	65	94
COARSE FRAGMENTS (%)	17.5	15.1	12.6	13.3	32.2	10.4
CORRECTED MINERALIZABLE N	71	61	76	69	44	84
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	187.3	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	29.4
MEAN DIAMETER (IN)	13.8	14.6	14.2	18.4	12.8	14.6
SITE HEIGHT (FEET)	76.7	86.4	81.7	89.0	89.1	74.0
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	89.2	100.0	100.0	89.5	85.1	93.4
GRAND FIR	8.7	0.0	0.0	0.0	0.0	0.0
PONDEROSA FINE	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
LIVE TOTAL VOLUME (CU. FT/A)	139	192	171	180	181	104
CROWN COMPETITION FACTOR	55.8	53.6	46.2	49.5	55.1	29.8
RELATIVE DENSITY INDEX	14.3	14.9	14.7	19.0	13.2	15.1
MEAN DIAMETER (IN)	0	0	0	0	0	0
DEAD TREES PER ACRE	0.0	0.0	0.0	0.0	0.0	0.0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
4 YEARS AFTER TREATMENT (1986)						
LIVE TREES PER ACRE	190	170	150	110	210	93
LIVE BASAL AREA (SQ. FT/A)	217.4	214.1	183.8	222.3	207.2	120.8
LIVE TOTAL VOLUME (CU. FT/A)	5855	6369	5100	6584	5650	3070
CROWN COMPETITION FACTOR	204	197	175	184	185	108
RELATIVE DENSITY INDEX	57.1	54.9	47.5	50.7	56.5	30.8
MEAN DIAMETER (IN)	14.5	15.2	15.0	19.3	13.4	15.4
SITE HEIGHT (FEET)	79.1	88.4	82.7	91.3	89.6	74.3
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
TOPKILL VOLUME (CU. FT/A)	3.9	0.7	4.9	0.0	2.6	0.0

PLOT SUMMARY REPORT

INSTALLATION 258 RONDOWA
 REGION: NORTHEAST OREGON OWNERSHIP: BOISE CASCADE
 LEGAL DESCRIPTION: T3N R40E SECTION 23 MERIDIAN: WILLAMETTE

TREATMENT	PLOT NUMBER					
	1	2	3	4	5	6
	400 #	CONT	200 #	400 #	CONT	200 #
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	40	25	20	15	25	30
ASPECT	258	292	292	282	274	252
DOUGLAS-FIR SITE INDEX	79.9	72.3	73.3	77.5	73.6	60.9
VEGETATION SERIES	ABGR	ABGR	ABGR	ABGR	ABGR	ABGR
PARENT MATERIAL	BSALT	BSALT	BSALT	BSALT	BSALT	BSALT
ASH DEPTH (IN)	0	0	0	0	0	0
SOIL DEPTH (IN)	>24	<12	12-24	12-24	>24	>24
TOTAL NITROGEN (PPM)	4033	3714	3895	2865	3459	3339
TOTAL PHOSPHORUS (PPM)	735	1169	1097	683	920	662
CARBON (%)	2.2	1.9	2.2	3.1	1.5	1.5
MINERALIZABLE NITROGEN (PPM)	93	88	82	85	101	84
COARSE FRAGMENTS (%)	26.4	27.8	14.7	31.5	11.0	7.8
CORRECTED MINERALIZABLE N	69	63	70	58	90	78
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	38.3	44.4	61.1	52.0	55.0
MEAN DIAMETER (IN)	13.7	15.1	15.0	14.2	11.6	11.8
SITE HEIGHT (FEET)	98.9	92.3	103.7	104.9	88.3	95.8
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	97.6	96.3	97.7	83.2	79.0	84.3
GRAND FIR	0.0	0.0	2.3	2.0	3.7	7.0
WESTERN LARCH	0.0	3.7	0.0	14.8	6.9	6.1
PONDEROSA PINE	2.4	0.0	0.0	0.0	10.4	2.6
2 YEARS AFTER TREATMENT (1984)						
LIVE TREES PER ACRE	160	120	140	210	230	240
LIVE BASAL AREA (SQ. FT/A)	171.4	155.4	182.1	241.3	184.2	184.7
CROWN COMPETITION FACTOR	163	146	170	229	188	184
RELATIVE DENSITY INDEX	45.8	39.6	46.3	63.3	52.9	53.6
MEAN DIAMETER (IN)	14.0	15.4	15.4	14.5	12.1	11.9
DEAD TREES PER ACRE	10	0	0	0	10	10
DEAD BASAL AREA (SQ. FT/A)	12.0	0.0	0.0	0.0	2.6	11.9
4 YEARS AFTER TREATMENT (1986)						
LIVE TREES PER ACRE	160	120	140	210	220	240
LIVE BASAL AREA (SQ. FT/A)	181.2	162.2	192.0	251.3	198.0	193.3
LIVE TOTAL VOLUME (CU. FT/A)	6106	5295	6842	9308	6083	6243
CROWN COMPETITION FACTOR	170	151	177	235	189	190
RELATIVE DENSITY INDEX	47.7	40.9	48.2	65.3	53.1	55.5
MEAN DIAMETER (IN)	14.4	15.7	15.9	14.8	12.5	12.1
SITE HEIGHT (FEET)	102.7	93.6	107.1	107.4	91.5	99.0
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
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

PLOT SUMMARY REPORT

INSTALLATION 259 RAILROAD CANYON
 REGION: CENTRAL WASHINGTON OWNERSHIP: LONGVIEW FIBER
 LEGAL DESCRIPTION: T25N R13E SECTION 2 MERIDIAN: WILLAMETTE

TREATMENT	PLOT NUMBER					
	1 400 #	2 200 #	3 CONT	4 200 #	5 400 #	6 CONT
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	50	55	50	60	65	60
ASPECT	280	312	290	290	325	305
DOUGLAS-FIR SITE INDEX	75.1	73.1	54.3	70.6	77.7	54.7
VEGETATION SERIES	PSME	PSME	PSME	PSME	PSME	PSME
PARENT MATERIAL	SAND	SAND	SAND	SAND	SAND	SAND
ASH DEPTH (IN)	0	0	0	0	0	0
SOIL DEPTH (IN)	>24	>24	>24	>24	>24	>24
TOTAL NITROGEN (PPM)	3266	1090	1512	2282	1574	330
TOTAL PHOSPHORUS (PPM)	394	312	355	425	462	436
CARBON (%)	1.6	1.2	1.2	1.5	1.7	1.0
MINERALIZABLE NITROGEN (PPM)	69	39	29	32	44	35
COARSE FRAGMENTS (%)	14.9	11.6	12.2	14.9	15.4	16.3
CORRECTED MINERALIZABLE N	58	34	26	27	37	30
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	203
RELATIVE DENSITY INDEX	70.4	53.1	45.8	62.1	69.8	56.4
MEAN DIAMETER (IN)	12.3	9.2	9.2	9.5	10.3	9.9
SITE HEIGHT (FEET)	86.4	73.0	70.0	78.9	93.1	81.6
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	100.0	100.0	99.1	98.7	100.0	100.0
PONDEROSA PINE	0.0	0.0	0.9	1.3	0.0	0.0
2 YEARS AFTER TREATMENT (1984)						
LIVE TREES PER ACRE	300	350	300	390	390	330
LIVE BASAL AREA (SQ. FT/A)	260.3	171.7	143.9	200.5	237.0	186.6
CROWN COMPETITION FACTOR	269	205	169	231	269	217
RELATIVE DENSITY INDEX	73.3	55.7	47.0	64.3	73.0	58.5
MEAN DIAMETER (IN)	12.6	9.5	9.4	9.7	10.6	10.2
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
4 YEARS AFTER TREATMENT (1986)						
LIVE TREES PER ACRE	300	350	300	390	390	330
LIVE BASAL AREA (SQ. FT/A)	266.1	177.3	147.5	206.3	243.7	190.5
LIVE TOTAL VOLUME (CU. FT/A)	8162	4658	3530	5602	7744	5245
CROWN COMPETITION FACTOR	274	210	175	236	274	220
RELATIVE DENSITY INDEX	74.5	57.1	47.9	65.8	74.5	59.4
MEAN DIAMETER (IN)	12.8	9.6	9.5	9.8	10.7	10.3
SITE HEIGHT (FEET)	89.5	76.0	71.2	81.6	96.6	84.4
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
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

PLOT SUMMARY REPORT

INSTALLATION 260 TUNWATER MTN
 REGION: CENTRAL WASHINGTON OWNERSHIP: LONGVIEW FIBER
 LEGAL DESCRIPTION: T24N R17E SECTION 3 MERIDIAN: WILLAMETTE

TREATMENT	PLOT NUMBER					
	1 200 #	2 CONT	3 400 #	4 CONT	5 200 #	6 400 #
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	80	85	75	75	95	65
ASPECT	113	83	80	93	84	80
DOUGLAS-FIR SITE INDEX	89.8	86.0	83.5	78.4	90.5	78.5
VEGETATION SERIES	ABGR	ABGR	ABGR	AZGR	ABGR	ABGR
PARENT MATERIAL	GRAN	GRAN	GRAN	GRAN	GRAN	GRAN
ASH DEPTH (IN)	+	+	+	+	+	+
SOIL DEPTH (IN)	>24	>24	>24	>24	>24	>24
TOTAL NITROGEN (PPM)	1194	977	1104	1160	1150	1266
TOTAL PHOSPHORUS (PPM)	708	652	1066	700	460	1101
CARBON (%)	1.3	0.9	1.0	1.0	0.7	1.1
MINERALIZABLE NITROGEN (PPM)	27	26	28	30	25	28
COARSE FRAGMENTS (%)	19.9	15.6	15.9	18.4	16.4	22.3
CORRECTED MINERALIZABLE N	22	22	24	25	21	22
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	15.3	12.7	12.7
SITE HEIGHT (FEET)	107.9	103.7	105.2	94.2	86.0	101.0
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	90.7	96.2	84.4	98.8	100.0	92.1
GRAND FIR	0.7	3.8	3.4	1.2	0.0	4.6
PONDEROSA PINE	8.5	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	65.3	60.1	58.6	59.8
MEAN DIAMETER (IN)	12.1	13.8	12.5	16.1	13.0	13.1
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
SITE HEIGHT (FEET)	113.7	106.6	108.4	97.6	91.0	105.8
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
TOPKILL VOLUME (CU. FT/A)	0.4	0.0	0.0	0.0	0.0	0.0

PLOT SUMMARY REPORT

INSTALLATION 261 SECOND CREEK
 REGION: CENTRAL WASHINGTON OWNERSHIP: LONGVIEW FIBER
 LEGAL DESCRIPTION: T26N R18E SECTION 22 MERIDIAN: WILLAMETTE

TREATMENT	PLOT NUMBER					
	1	2	3	4	5	6
	200 #	CONT	400 #	CONT	400 #	200 #
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	40	45	50	50	50	45
ASPECT	360	30	360	360	360	10
DOUGLAS-FIR SITE INDEX	64.4	79.6	75.8	65.5	71.9	69.9
VEGETATION SERIES	ABGR	ABGR	ABGR	ABGR	ABGR	ADGR
PARENT MATERIAL	SAND	SAND	SAND	SAND	SAND	SAND
ASH DEPTH (IN)	+	+	+	+	+	+
SOIL DEPTH (IN)	>24	>24	>24	>24	>24	>24
TOTAL NITROGEN (PPM)	1150	1430	1137	937	100	1285
TOTAL PHOSPHORUS (PPM)	400	330	569	198	537	366
CARBON (%)	1.5	1.1	1.8	1.3	1.4	1.4
MINERALIZABLE NITROGEN (PPM)	92	35	26	26	24	30
COARSE FRAGMENTS (%)	6.7	16.1	8.4	6.6	7.5	9.9
CORRECTED MINERALIZABLE N	86	30	24	24	22	27
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	11.5	9.6	9.3	9.3	11.1
SITE HEIGHT (FEET)	73.3	105.2	86.2	75.3	86.2	84.5
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	89.8	100.0	94.6	73.8	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
LIVE TOTAL VOLUME (CU. FT/A)	151	236	163	168	175	213
CROWN COMPETITION FACTOR	40.7	63.5	44.3	43.4	45.1	57.0
RELATIVE DENSITY INDEX	8.9	11.7	10.2	9.5	9.8	11.4
MEAN DIAMETER (IN)	0	0	0	0	0	0
DEAD TREES PER ACRE	0.0	0.0	0.0	0.0	0.0	0.0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
4 YEARS AFTER TREATMENT (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	3037	4607	3765	4541	6401
CROWN COMPETITION FACTOR	160	240	174	173	185	221
RELATIVE DENSITY INDEX	43.1	64.5	46.3	44.3	47.3	58.8
MEAN DIAMETER (IN)	9.3	11.8	10.5	9.7	10.1	11.7
SITE HEIGHT (FEET)	78.0	107.2	91.6	78.7	91.3	87.7
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	0.0	0.0	0.0
TOPKILL VOLUME (CU. FT/A)	0.0	1.0	0.0	0.0	0.0	0.0

PLOT SUMMARY REPORT

INSTALLATION 262 STEVENS PASS OWNERSHIP: LONGVIEW FIBER
 REGION: CENTRAL WASHINGTON MERIDIAN: WILLAMETTE
 LEGAL DESCRIPTION: T26N R15E SECTION 3

	PLOT NUMBER					
	1	2	3	4	5	6
TREATMENT	200 #	400 #	CONT	200 #	400 #	CONT
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	20	15	17	30	22	12
ASPECT	125	150	152	148	140	118
DOUGLAS-FIR SITE INDEX	66.0	66.0	71.0	71.1	69.6	81.6
VEGETATION SERIES	TSHE	TSHE	TSHE	TSHE	TSHE	TSHE
PARENT MATERIAL	GTILL	GTILL	GTILL	GTILL	GTILL	GTILL
ASH DEPTH (IN)	<3	<3	<3	<3	<3	<3
SOIL DEPTH (IN)	>24	>24	>24	12-24	12-24	>24
TOTAL NITROGEN (PPM)	2310	1177	1583	2118	1855	1487
TOTAL PHOSPHORUS (PPM)	1267	776	655	825	679	858
CARBON (%)	1.6	1.2	1.6	1.4	1.8	1.2
MINERALIZABLE NITROGEN (PPM)	13	6	16	37	32	25
COARSE FRAGMENTS (%)	17.2	20.2	19.2	16.8	13.9	13.4
CORRECTED MINERALIZABLE N	11	5	13	31	27	21
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)	168.8	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
SITE HEIGHT (FEET)	86.8	95.1	87.9	95.0	84.5	102.5
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	76.6	70.9	78.3	47.9	52.7	61.9
GRAND FIR	19.2	24.3	20.5	52.1	40.7	15.3
WESTERN REDCEDAR	0.0	0.0	0.0	0.0	0.9	17.7
WESTERN HEMLOCK	4.1	4.8	1.1	0.0	5.7	5.2
2 YEARS AFTER TREATMENT (1984)						
LIVE TREES PER ACRE	350	410	350	360	410	340
LIVE BASAL AREA (SQ. FT/A)	177.8	233.9	180.1	259.8	230.5	272.9
CROWN COMPETITION FACTOR	214	269	219	299	274	301
RELATIVE DENSITY INDEX	57.2	73.1	57.8	76.6	72.3	78.3
MEAN DIAMETER (IN)	9.6	10.2	9.7	11.5	10.1	12.1
DEAD TREES PER ACRE	0	10	0	0	0	20
DEAD BASAL AREA (SQ. FT/A)	0.0	1.4	0.0	0.0	0.0	21.6
4 YEARS AFTER TREATMENT (1986)						
LIVE TREES PER ACRE	350	410	340	360	410	330
LIVE BASAL AREA (SQ. FT/A)	187.5	244.6	180.2	270.0	244.6	276.8
LIVE TOTAL VOLUME (CU. FT/A)	5656	8238	5796	9846	7791	9476
CROWN COMPETITION FACTOR	222	278	216	308	286	301
RELATIVE DENSITY INDEX	59.5	75.6	57.4	78.9	75.6	78.6
MEAN DIAMETER (IN)	9.9	10.5	9.9	11.7	10.5	12.4
SITE HEIGHT (FEET)	90.6	99.9	90.9	99.8	89.5	107.5
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
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

PLOT SUMMARY REPORT

INSTALLATION 263 N.F. TEANAWAY RIVER
 REGION: CENTRAL WASHINGTON OWNERSHIP: WASHINGTON DNR
 LEGAL DESCRIPTION: T21N R16E SECTION 20 MERIDIAN: WILLAMETTE

TREATMENT	PLOT NUMBER					
	1 CONT	2 200 #	3 400 #	4 200 #	5 CONT	6 400 #
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	20	30	20	5	3	12
ASPECT	274	286	312	56	200	184
DOUGLAS-FIR SITE INDEX	65.6	75.2	73.5	54.1	77.5	63.3
VEGETATION SERIES	ABGR	ABGR	ABGR	ABGR	ABGR	ABGR
PARENT MATERIAL	SAND	SAND	SAND	SAND	SAND	SAND
ASH DEPTH (IN)	+	+	+	0	0	0
SCIL DEPTH (IN)	>24	>24	>24	>24	>24	>24
TOTAL NITROGEN (PPM)	2072	770	1493	1081	2098	1234
TOTAL PHOSPHORUS (PPM)	706	225	287	431	715	323
CARBON (%)	1.4	0.8	1.1	0.3	1.0	0.9
MINERALIZABLE NITROGEN (PPM)	18	30	21	64	67	45
COARSE FRAGMENTS (%)	18.9	9.2	9.4	7.2	6.1	3.7
CORRECTED MINERALIZABLE N	15	27	19	59	63	43
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	5367	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
SITE HEIGHT (FEET)	84.5	82.5	93.3	80.8	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
SITE HEIGHT (FEET)	87.6	86.7	93.2	84.3	88.9	83.0
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
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

PLOT SUMMARY REPORT

INSTALLATION 264 RENFRO PEAK
 REGION: NORTHERN IDAHO OWNERSHIP: POTLATCH
 LEGAL DESCRIPTION: T44N R1E SECTION 11 MERIDIAN: BOISE

	PLOT NUMBER					
	1	2	3	4	5	6
TREATMENT	200 #	CONT	400 #	200 #	CONT	400 #
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	40	45	40	45	40	35
ASPECT	194	222	159	160	160	172
DOUGLAS-FIR SITE INDEX	82.5	82.9	84.1	87.0	87.0	83.3
VEGETATION SERIES	THPL	THPL	THPL	THPL	THPL	THPL
PARENT MATERIAL	ASH/L	ASH/L	ASH/L	ASH/L	ASH/L	ASH/L
ASH DEPTH (IN)	>12	>12	>12	>12	>12	>12
SOIL DEPTH (IN)	>24	>24	>24	>24	>24	>24
TOTAL NITROGEN (PPM)	2781	2305	3757	3152	3185	2182
TOTAL PHOSPHORUS (PPM)	682	565	1029	760	744	605
CARBON (%)	1.0	0.8	1.0	1.3	1.2	1.0
MINERALIZABLE NITROGEN (PPM)	62	40	37	39	31	35
COARSE FRAGMENTS (%)	12.4	14.8	12.9	14.1	15.8	13.3
CORRECTED MINERALIZABLE N	54	34	33	33	26	31
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	314	261	288	263
RELATIVE DENSITY INDEX	64.8	73.0	89.0	71.1	77.4	73.8
MEAN DIAMETER (IN)	10.1	8.9	8.3	11.2	11.6	10.8
SITE HEIGHT (FEET)	76.5	81.3	84.5	81.1	81.6	85.4
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	64.3	75.0	55.7	65.8	68.8	64.1
GRAND FIR	27.8	12.7	24.0	28.7	23.2	23.4
WESTERN RED CEDAR	0.0	0.3	0.0	0.0	0.0	0.0
WESTERN LARCH	7.1	10.1	20.0	5.5	8.0	12.5
ENGELMANN SPRUCE	0.8	1.8	0.4	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	263.1	253.8	274.0	259.0
CROWN COMPETITION FACTOR	248	268	320	276	296	277
RELATIVE DENSITY INDEX	67.7	74.9	90.0	74.8	79.7	77.5
MEAN DIAMETER (IN)	10.4	9.1	8.5	11.5	11.3	11.2
DEAD TREES PER ACRE	0	0	29	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	226.4	270.9	257.0	283.1	273.0
LIVE TOTAL VOLUME (CU. FT/A)	6501	6410	7751	8114	8874	8272
CROWN COMPETITION FACTOR	259	267	326	286	302	289
RELATIVE DENSITY INDEX	70.2	74.6	91.6	77.6	81.7	80.6
MEAN DIAMETER (IN)	10.7	9.2	8.7	11.8	12.0	11.5
SITE HEIGHT (FEET)	80.9	84.6	89.7	86.6	86.0	90.5
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	194	146	0	0	0
TOPKILL VOLUME (CU. FT/A)	0.0	5.0	2.7	2.7	0.1	0.0

PLOT SUMMARY REPORT

INSTALLATION 265 MALLORY CREEK
 REGION: NORTHERN IDAHO OWNERSHIP: POTLATCH
 LEGAL DESCRIPTION: T41N R2E SECTION 18 MERIDIAN: BOISE

	PLOT NUMBER					
	1	2	3	4	5	6
TREATMENT	400 #	200 #	CONT	CONT	200 #	400 #
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	30	35	40	50	45	45
ASPECT	240	195	144	225	222	192
DOUGLAS-FIR SITE INDEX	101.4	94.1	97.8	95.4	88.7	83.3
VEGETATION SERIES	THPL	THPL	THPL	THPL	THPL	THPL
PARENT MATERIAL	ASH/M	ASH/M	ASH/M	ASH/M	ASH/M	ASH/M
ASH DEPTH (IN)	>12	>12	>12	>12	3-12	3-12
SOIL DEPTH (IN)	>24	>24	>24	>24	>24	>24
TOTAL NITROGEN (PPM)	5635	2863	3643	2004	3297	3973
TOTAL PHOSPHORUS (PPM)	965	271	270	245	463	240
CARBON (%)	1.0	1.1	1.2	1.1	1.3	1.1
MINERALIZABLE NITROGEN (PPM)	41	34	34	30	37	49
COARSE FRAGMENTS (%)	17.0	12.0	13.6	17.7	15.0	21.0
CORRECTED MINERALIZABLE N	34	30	29	25	32	39
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	2876	3935	1827	2704	2551
CROWN COMPETITION FACTOR	159	159	193	126	159	153
RELATIVE DENSITY INDEX	42.3	44.5	54.2	35.0	44.4	43.0
MEAN DIAMETER (IN)	9.6	8.5	9.5	7.4	8.6	8.0
SITE HEIGHT (FEET)	62.3	61.9	67.5	53.5	57.8	63.9
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	90.0	82.5	95.2	83.0	75.8	94.9
GRAND FIR	1.6	8.8	0.9	16.0	14.3	5.1
WESTERN RED CEDAR	8.3	1.6	0.0	0.0	0.0	0.0
WESTERN LARCH	0.0	4.8	2.3	0.0	0.0	0.0
WESTERN WHITE PINE	0.0	2.3	1.5	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	103.3	149.2	139.0
CROWN COMPETITION FACTOR	179	178	208	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	4086	5066	2572	3704	3540
CROWN COMPETITION FACTOR	189	194	219	156	188	186
RELATIVE DENSITY INDEX	49.7	53.3	61.2	41.9	50.6	51.3
MEAN DIAMETER (IN)	11.0	9.8	10.3	8.3	9.9	9.0
SITE HEIGHT (FEET)	69.1	67.7	74.7	60.2	64.6	69.9
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
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

PLOT SUMMARY REPORT

INSTALLATION 266 DOUGLAS FALLS #1
 REGION: NORTHEAST WASHINGTON OWNERSHIP: WASHINGTON DNR
 LEGAL DESCRIPTION: T36N R39E SECTION 16 MERIDIAN: WILLAMETTE

TREATMENT	PLOT NUMBER					
	1	2	3	4	5	6
	400 #	CONT	200 #	CONT	400 #	200 #
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	5	5	5	5	10	5
ASPECT	270	225	252	260	270	270
DOUGLAS-FIR SITE INDEX	53.7	51.1	55.6	58.4	63.8	56.4
VEGETATION SERIES	PSME	PSME	PSME	PSME	PSME	PSME
PARENT MATERIAL	GTILL	GTILL	GTILL	GTILL	GTILL	GTILL
ASH DEPTH (IN)	3-12	3-12	3-12	3-12	3-12	3-12
SOIL DEPTH (IN)	>24	>24	>24	>24	>24	>24
TOTAL NITROGEN (PPM)	2878	1965	2449	2399	3570	5004
TOTAL PHOSPHORUS (PPM)	1666	964	1606	1415	1442	1718
CARBON (%)	2.6	1.7	1.7	1.7	2.4	2.8
MINERALIZABLE NITROGEN (PPM)	48	47	61	52	48	44
COARSE FRAGMENTS (%)	41.3	27.3	25.3	28.3	42.6	48.4
CORRECTED MINERALIZABLE N	28	34	45	37	23	23
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
SITE HEIGHT (FEET)	71.8	62.5	73.0	71.9	78.0	74.7
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	100.0	100.0	91.0	96.5	100.0	97.4
WESTERN LARCH	0.0	0.0	3.9	3.4	0.0	0.0
LOGEPOLE PINE	0.0	0.0	5.1	0.0	0.0	0.0
PONDEROSA PINE	0.0	0.0	0.0	0.0	0.0	2.6
2 YEARS AFTER TREATMENT (1984)						
LIVE TREES PER ACRE	230	260	290	220	250	220
LIVE BASAL AREA (SQ. FT/A)	140.7	116.2	143.0	103.4	147.7	128.3
CROWN COMPETITION FACTOR	159	140	165	121	167	147
RELATIVE DENSITY INDEX	43.2	38.6	46.4	33.9	45.8	39.9
MEAN DIAMETER (IN)	10.6	9.0	9.5	9.3	10.4	10.3
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
4 YEARS AFTER TREATMENT (1986)						
LIVE TREES PER ACRE	230	260	280	220	250	220
LIVE BASAL AREA (SQ. FT/A)	147.4	119.9	143.3	107.7	156.1	133.7
LIVE TOTAL VOLUME (CU. FT/A)	3713	2824	3887	2712	4264	3582
CROWN COMPETITION FACTOR	165	143	163	125	175	151
RELATIVE DENSITY INDEX	44.8	39.5	47.2	35.0	47.7	41.1
MEAN DIAMETER (IN)	10.8	9.2	9.8	9.5	10.7	10.5
SITE HEIGHT (FEET)	75.3	64.6	75.1	75.2	82.9	77.8
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
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

PLOT SUMMARY REPORT

INSTALLATION 267 DOUGLAS FALLS #2
 REGION: NORTHEAST WASHINGTON OWNERSHIP: WASHINGTON DNR
 LEGAL DESCRIPTION: T36N R39E SECTION 16 MERIDIAN: WILLAMETTE

TREATMENT	PLOT NUMBER					
	1	2	3	4	5	6
400 #	CONT	200 #	400 #	CONT	200 #	
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	7	5	7	3	0	0
ASPECT	236	230	234	242	0	0
DOUGLAS-FIR SITE INDEX	59.3	51.3	59.4	60.9	47.0	49.4
VEGETATION SERIES	PSME	PSME	PSME	PSME	PSM2	PSME
PARENT MATERIAL	GTILL	GTILL	GTILL	GTILL	GTILL	GTILL
ASH DEPTH (IN)	3-12	3-12	3-12	3-12	3-12	3-12
SOIL DEPTH (IN)	>24	>24	>24	>24	>24	>24
TOTAL NITROGEN (PPM)	4308	2228	4010	2779	3597	2404
TOTAL PHOSPHORUS (PPM)	2005	1526	1198	1102	1242	826
CARBON (%)	2.5	2.0	2.9	1.6	1.8	1.2
MINERALIZABLE NITROGEN (PPM)	41	58	63	30	40	39
COARSE FRAGMENTS (%)	34.3	37.0	40.5	11.9	22.9	20.0
CORRECTED MINERALIZABLE N	27	36	38	27	31	31
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	10.0	10.0	9.7	9.2
SITE HEIGHT (FEET)	72.2	80.6	82.6	81.3	68.1	66.8
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	100.0	100.0	98.5	100.0	100.0	100.0
LODGEPOLE PINE	0.0	0.0	1.5	0.0	0.0	0.0
2 YEARS AFTER TREATMENT (1984)						
LIVE TREES PER ACRE	250	200	200	220	210	190
LIVE BASAL AREA (SQ. FT/A)	166.7	132.2	116.7	129.3	112.1	98.9
CROWN COMPETITION FACTOR	188	141	128	145	131	118
RELATIVE DENSITY INDEX	50.1	39.8	36.3	40.1	35.6	31.6
MEAN DIAMETER (IN)	11.1	11.0	10.3	10.4	9.9	9.8
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
4 YEARS AFTER TREATMENT (1986)						
LIVE TREES PER ACRE	250	200	190	200	210	190
LIVE BASAL AREA (SQ. FT/A)	175.0	138.3	116.5	129.0	116.2	106.3
LIVE TOTAL VOLUME (CU. FT/A)	4780	3904	3276	3666	2887	2639
CROWN COMPETITION FACTOR	194	146	125	142	135	125
RELATIVE DENSITY INDEX	52.0	41.2	35.8	39.1	36.6	33.4
MEAN DIAMETER (IN)	11.3	11.3	10.6	10.9	10.1	10.1
SITE HEIGHT (FEET)	76.3	84.5	86.1	84.6	70.4	70.4
DEAD TREES PER ACRE	0	0	10	20	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	6.1	6.7	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0	0	173	173	0	0
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

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
TREATMENT	200 #	CONT	400 #	400 #	200 #	CONT
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	20	10	15	5	15	10
ASPECT	127	196	126	250	270	210
DOUGLAS-FIR SITE INDEX	76.6	78.2	85.5	86.4	77.1	91.0
VEGETATION SERIES	THPL	THPL	THPL	THPL	THPL	THPL
PARENT MATERIAL	GTILL	GTILL	GTILL	GTILL	GTILL	GTILL
ASH DEPTH (IN)	<3	<3	<3	<3	<3	<3
SOIL DEPTH (IN)	12-24	>24	12-24	>24	>24	12-24
TOTAL NITROGEN (PPM)	3834	3556	2870	3202	3935	1844
TOTAL PHOSPHORUS (PPM)	1841	1792	2134	2199	2753	2393
CARBON (%)	2.0	2.2	1.8	2.6	2.5	1.6
MINERALIZABLE NITROGEN (PPM)	43	44	40	50	49	35
COARSE FRAGMENTS (%)	31.0	31.0	30.1	30.3	30.6	28.4
CORRECTED MINERALIZABLE N	30	31	28	35	34	25
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	5560	6333	5321
CROWN COMPETITION FACTOR	216	172	219	201	243	221
RELATIVE DENSITY INDEX	58.8	47.8	61.7	56.3	70.3	63.4
MEAN DIAMETER (IN)	9.5	9.3	10.3	11.1	9.5	9.3
SITE HEIGHT (FEET)	70.9	71.9	82.8	84.5	91.1	86.6
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	100.0	100.0	97.7	94.8	86.6	93.9
GRAND FIR	0.0	0.0	0.3	5.2	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	1.9	0.0	0.0	0.0
ENGELMANN SPRUCE	0.0	0.0	0.0	0.0	5.6	1.0
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	209	257	229
RELATIVE DENSITY INDEX	61.3	48.5	64.6	58.9	74.1	65.8
MEAN DIAMETER (IN)	9.8	9.6	10.7	11.4	9.8	9.5
DEAD TREES PER ACRE	0	10	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	3.9	0.0	0.0	0.0	0.0
4 YEARS AFTER TREATMENT (1986)						
LIVE TREES PER ACRE	370	300	330	290	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	6493	7520	6148
CROWN COMPETITION FACTOR	237	183	232	217	267	238
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
SITE HEIGHT (FEET)	75.1	76.7	88.3	89.4	96.5	91.1
DEAD TREES PER ACRE	0	10	10	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	3.9	2.1	0.0	0.0	0.0
DEAD TOTAL VOLUME (CU. FT/A)	0.0	106	57	0.0	0.0	0.0
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	2.7	1.0	1.1	0.0

PLOT SUMMARY REPORT

INSTALLATION 269 UPPER BURNT FORK CR
 REGION: MONTANA OWNERSHIP: CHAMPION
 LEGAL DESCRIPTION: T15N R16W SECTION 27 MERIDIAN: PRINCIPAL

TREATMENT	PLOT NUMBER					
	1	2	3	4	5	6
	CONT	200 #	400 #	200 #	400 #	CONT
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	50	60	55	62	45	65
ASPECT	248	262	270	265	245	268
DOUGLAS-FIR SITE INDEX	55.0	55.5	58.4	63.9	50.5	61.7
VEGETATION SERIES	PSME	PSME	PSME	PSME	PSME	PSME
PARENT MATERIAL	COLLU	COLLU	COLLU	COLLU	COLLU	COLLU
ASH DEPTH (IN)	0	0	0	0	0	0
SOIL DEPTH (IN)	>24	>24	12-24	>24	12-24	>24
TOTAL NITROGEN (PPM)	408	1767	2352	1083	999	1121
TOTAL PHOSPHORUS (PPM)	137	117	305	197	60	79
CARBON (%)	1.4	1.9	2.7	1.6	1.6	1.5
MINERALIZABLE NITROGEN (PPM)	40	45	66	45	34	45
COARSE FRAGMENTS (%)	56.9	53.9	61.5	51.5	44.7	54.0
CORRECTED MINERALIZABLE N	17	21	25	22	19	21
MENSURATIONAL CHARACTERISTICS:						
AT TIME OF TREATMENT (1982)	STAND AGE = 57					
LIVE TREES PER ACRE	320	270	370	290	350	280
LIVE BASAL AREA (SQ. FT/A)	147.2	130.6	147.7	130.1	157.4	160.4
LIVE TOTAL VOLUME (CU. FT/A)	2967	2437	2810	2639	2890	3256
CROWN COMPETITION FACTOR	169	153	175	155	189	181
RELATIVE DENSITY INDEX	48.6	42.6	50.5	43.2	52.2	50.1
MEAN DIAMETER (IN)	9.2	9.4	8.5	9.1	9.1	10.3
SITE HEIGHT (FEET)	57.9	54.5	55.7	58.3	49.1	60.3
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	84.9	93.1	94.4	96.5	96.7	92.9
WESTERN LARCH	4.5	0.9	3.6	0.0	0.0	4.5
LODGEPOLE PINE	10.6	5.9	0.0	3.5	3.3	2.6
ENGELMANN SPRUCE	0.0	0.0	1.9	0.0	0.0	0.0
2 YEARS AFTER TREATMENT (1984)						
LIVE TREES PER ACRE	320	270	370	290	350	280
LIVE BASAL AREA (SQ. FT/A)	150.8	137.1	154.6	135.1	165.3	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	9.6	8.8	9.2	9.3	10.5
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
4 YEARS AFTER TREATMENT (1986)						
LIVE TREES PER ACRE	320	270	370	290	350	280
LIVE BASAL AREA (SQ. FT/A)	154.8	143.0	161.5	140.6	172.6	172.4
LIVE TOTAL VOLUME (CU. FT/A)	3252	2814	3257	2978	3325	3651
CROWN COMPETITION FACTOR	177	164	187	164	204	190
RELATIVE DENSITY INDEX	50.4	45.5	54.0	45.3	56.0	52.9
MEAN DIAMETER (IN)	9.4	9.8	8.9	9.4	9.5	10.6
SITE HEIGHT (FEET)	60.8	58.1	59.4	61.8	51.9	63.4
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
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

PLOT SUMMARY REPORT

INSTALLATION 270 HOWARD CREEK OWNERSHIP: CHAMPION
 REGION: MONTANA MERIDIAN: PRINCIPAL
 LEGAL DESCRIPTION: T12N R23W SECTION 19

TREATMENT	PLOT NUMBER					
	1	2	3	4	5	6
	400 #	200 #	CONT	CONT	200 #	400 #
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	30	50	50	45	40	45
ASPECT	168	55	100	102	126	112
DOUGLAS-FIR SITE INDEX	67.0	73.2	67.6	66.0	65.7	65.0
VEGETATION SERIES	PSME	PSME	PSME	PSME	PSME	PSME
PARENT MATERIAL	COLLU	COLLU	COLLU	COLLU	COLLU	COLLU
ASH DEPTH (IN)	0	0	0	0	0	0
SOIL DEPTH (IN)	12-24	>24	>24	>24	>24	>24
TOTAL NITROGEN (PPM)	4587	1249	220	526	2502	2315
TOTAL PHOSPHORUS (PPM)	137	414	146	224	112	57
CARBON (%)	1.8	1.9	1.6	1.4	1.7	1.7
MINERALIZABLE NITROGEN (PPM)	59	55	24	31	40	56
COARSE FRAGMENTS (%)	53.1	55.9	44.6	50.5	53.1	50.9
CORRECTED MINERALIZABLE N	28	24	13	15	19	28
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	8.8	9.1	10.1	9.5
SITE HEIGHT (FEET)	52.4	56.2	58.8	53.8	50.5	64.0
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	99.0	78.2	74.6	95.9	94.6	89.0
WESTERN LARCH	0.0	0.0	2.4	0.0	0.0	0.0
LODGEPOLE PINE	0.0	0.0	14.6	0.0	0.0	0.0
PONDEROSA PINE	0.9	21.8	8.4	4.1	5.4	11.0
2 YEARS AFTER TREATMENT (1984)						
LIVE TREES PER ACRE	170	280	260	230	240	280
LIVE BASAL AREA (SQ. FT/A)	134.2	137.8	115.4	110.1	140.0	145.7
CROWN COMPETITION FACTOR	137	149	127	129	157	163
RELATIVE DENSITY INDEX	38.7	44.7	38.4	36.0	43.5	46.6
MEAN DIAMETER (IN)	12.0	9.5	9.0	9.4	10.3	9.8
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
4 YEARS AFTER TREATMENT (1986)						
LIVE TREES PER ACRE	170	280	260	230	240	280
LIVE BASAL AREA (SQ. FT/A)	141.8	146.6	119.2	116.2	146.4	151.1
LIVE TOTAL VOLUME (CU. FT/A)	2723	3119	2643	2312	2968	3455
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
SITE HEIGHT (FEET)	56.4	61.5	62.6	57.4	53.7	67.5
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
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

PLOT SUMMARY REPORT

INSTALLATION 271 WHITNEY CREEK OWNERSHIP: CHAMPION
 REGION: MONTANA MERIDIAN: PRINCIPAL
 LEGAL DESCRIPTION: T25N R27W SECTION 7

TREATMENT	PLOT NUMBER					
	1	2	3	4	5	6
	400 #	200 #	CONT	400 #	200 #	CONT
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	15	10	15	22	60	70
ASPECT	195	130	98	198	227	222
DOUGLAS-FIR SITE INDEX	70.4	70.6	72.4	72.7	70.4	68.6
VEGETATION SERIES	PSME	PSME	PSME	PSME	PSME	PSME
PARENT MATERIAL	COLLU	COLLU	COLLU	COLLU	COLLU	COLLU
ASH DEPTH (IN)	0	0	0	0	0	0
SOIL DEPTH (IN)	12-24	12-24	12-24	12-24	12-24	>24
TOTAL NITROGEN (PPM)	1705	814	680	2104	1627	743
TOTAL PHOSPHORUS (PPM)	458	474	346	283	197	193
CARBON (%)	1.7	2.1	1.2	1.4	1.5	1.4
MINERALIZABLE NITROGEN (PPM)	40	39	30	41	39	35
COARSE FRAGMENTS (%)	47.2	38.8	44.5	49.0	48.5	49.7
CORRECTED MINERALIZABLE N	21	24	17	21	20	18
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)	3619	3743	4157	2974	3764	3224
CROWN COMPETITION FACTOR	169	165	190	141	191	169
RELATIVE DENSITY INDEX	52.5	49.7	62.4	43.5	62.8	53.1
MEAN DIAMETER (IN)	9.1	9.0	7.8	8.9	7.7	7.9
SITE HEIGHT (FEET)	63.8	68.2	65.5	64.6	57.7	58.9
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	58.2	70.3	44.9	63.9	48.3	60.6
WESTERN LARCH	23.3	5.6	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
ENGELMANN SPRUCE	0.3	5.3	0.0	0.0	0.0	0.0
2 YEARS AFTER TREATMENT (1984)						
LIVE TREES PER ACRE	350	340	500	300	450	420
LIVE BASAL AREA (SQ. FT/A)	167.6	156.3	165.5	138.5	153.6	149.1
CROWN COMPETITION FACTOR	177	172	182	149	169	168
RELATIVE DENSITY INDEX	54.9	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	154.8
LIVE TOTAL VOLUME (CU. FT/A)	3706	3986	4053	3065	3044	3440
CROWN COMPETITION FACTOR	168	169	184	141	159	175
RELATIVE DENSITY INDEX	50.4	49.4	58.5	41.8	49.4	54.0
MEAN DIAMETER (IN)	9.6	9.5	8.0	9.8	8.4	8.2
SITE HEIGHT (FEET)	69.4	73.0	68.7	68.8	61.7	62.0
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
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

PLOT SUMMARY REPORT

INSTALLATION 272 INDIAN CREEK OWNERSHIP: CHAMPION
 REGION: MONTANA MERIDIANS: PRINCIPAL
 LEGAL DESCRIPTION: T25N R27W SECTION 5

TREATMENT	PLOT NUMBER					
	1	2	3	4	5	6
	CONT	200 #	400 #	400 #	200 #	CONT
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	50	35	60	65	65	70
ASPECT	5	20	36	32	20	32
DOUGLAS-FIR SITE INDEX	56.3	65.5	66.1	70.0	56.5	67.9
VEGETATION SERIES	ABGR	ABGR	ABGR	ABGR	ABGR	ABGR
PARENT MATERIAL	ASH/L	ASH/L	ASH/L	ASH/L	ASH/L	ASH/L
ASH DEPTH (IN)	<3	<3	<3	<3	<3	<3
SOIL DEPTH (IN)	12-24	12-24	>24	>24	>24	>24
TOTAL NITROGEN (PPM)	1005	842	917	1010	1300	1329
TOTAL PHOSPHORUS (PPH)	3034	2913	1751	2634	1757	1935
CARBON (%)	1.6	1.3	1.6	1.8	1.8	2.3
MINERALIZABLE NITROGEN (PPM)	35	25	23	28	31	30
COARSE FRAGMENTS (%)	35.6	35.3	53.4	45.1	55.9	53.9
CORRECTED MINERALIZABLE N	22	16	11	16	14	14
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	144.9
LIVE TOTAL VOLUME (CU. FT/A)	3126	3268	2609	2930	3012	3420
CROWN COMPETITION FACTOR	189	177	156	164	168	182
RELATIVE DENSITY INDEX	57.7	55.1	48.6	50.1	52.4	56.6
MEAN DIAMETER (IN)	6.2	6.3	6.3	6.7	6.1	6.5
SITE HEIGHT (FEET)	64.9	66.0	62.0	62.7	61.7	65.2
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	83.6	74.8	76.5	83.8	71.2	71.4
GRAND FIR	1.6	0.0	1.3	0.0	1.0	1.6
WESTERN LARCH	9.5	14.1	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	0.3	0.0	1.6	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	178	164	173	175	189
RELATIVE DENSITY INDEX	59.0	54.4	50.8	52.4	54.2	58.5
MEAN DIAMETER (IN)	6.3	6.4	6.5	6.9	6.3	6.7
DEAD TREES PER ACRE	0	30	0	0	10	0
DEAD BASAL AREA (SQ. FT/A)	0.0	9.9	0.0	0.0	1.1	0.0
4 YEARS AFTER TREATMENT (1986)						
LIVE TREES PER ACRE	680	550	470	420	490	540
LIVE BASAL AREA (SQ. FT/A)	151.9	139.2	118.8	127.0	111.3	133.1
LIVE TOTAL VOLUME (CU. FT/A)	3442	3404	2662	3046	2569	3118
CROWN COMPETITION FACTOR	197	175	148	157	147	169
RELATIVE DENSITY INDEX	60.0	53.3	45.5	46.5	43.8	51.3
MEAN DIAMETER (IN)	6.4	6.8	6.8	7.4	6.4	6.7
SITE HEIGHT (FEET)	67.2	69.7	66.4	67.3	65.9	68.8
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
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.3

PLOT SUMMARY REPORT

INSTALLATION 273 LITTLE BEAVER CREEK
 REGION: NORTHERN IDAHO OWNERSHIP: POTLATCH
 LEGAL DESCRIPTION: T37N R5E SECTION 1 MERIDIAN: BOISE

TREATMENT	PLOT NUMBER					
	1	2	3	4	5	6
	200 #	CONT	400 #	200 #	CONT	400 #
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	42	40	25	40	30	30
ASPECT	212	186	244	222	212	210
DOUGLAS-FIR SITE INDEX	92.9	93.5	83.8	90.1	88.9	92.3
VEGETATION SERIES	THPL	THPL	THPL	THPL	THPL	THPL
PARENT MATERIAL	ASH/M	ASH/M	ASH/M	ASH/M	ASH/M	ASH/M
ASH DEPTH (IN)	>12	>12	>12	>12	>12	>12
SOIL DEPTH (IN)	>24	>24	>24	>24	>24	>24
TOTAL NITROGEN (PPM)	2334	2863	2656	2789	2241	3596
TOTAL PHOSPHORUS (PPM)	1005	711	1104	581	1036	1374
CARBON (%)	2.6	2.4	2.0	2.1	1.8	2.5
MINERALIZABLE NITROGEN (PPM)	33	38	44	32	24	33
COARSE FRAGMENTS (%)	22.0	19.3	16.3	17.5	19.1	19.1
CORRECTED MINERALIZABLE N	25	31	37	27	19	27
MENSURATIONAL CHARACTERISTICS:						
AT TIME OF TREATMENT (1982) STAND AGE = 36						
LIVE TREES PER ACRE	420	420	570	400	350	320
LIVE BASAL AREA (SQ. FT/A)	127.8	144.1	159.5	178.7	143.1	121.0
LIVE TOTAL VOLUME (CU. FT/A)	2642	3291	3416	4803	3139	2443
CROWN COMPETITION FACTOR	169	190	207	205	179	143
RELATIVE DENSITY INDEX	46.8	51.2	59.6	59.4	48.6	41.9
MEAN DIAMETER (IN)	7.5	7.9	7.2	9.0	8.7	8.3
SITE HEIGHT (FEET)	55.7	62.6	57.2	66.2	59.3	55.0
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	65.8	74.4	65.4	73.2	75.9	80.0
GRAND FIR	21.3	19.3	14.2	2.7	10.0	2.6
WESTERN REDCEDAR	13.0	6.3	10.9	3.3	10.2	7.2
WESTERN LARCH	0.0	0.0	9.5	20.3	3.8	10.1
2 YEARS AFTER TREATMENT (1984)						
LIVE TREES PER ACRE	400	420	570	400	350	320
LIVE BASAL AREA (SQ. FT/A)	144.8	164.7	187.4	202.4	162.5	145.4
CROWN COMPETITION FACTOR	193	212	239	232	200	175
RELATIVE DENSITY INDEX	50.7	56.5	67.3	65.2	53.5	48.1
MEAN DIAMETER (IN)	8.1	8.5	7.8	9.6	9.2	9.1
DEAD TREES PER ACRE	20	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	5.1	0.0	0.0	0.0	0.0	0.0
4 YEARS AFTER TREATMENT (1986)						
LIVE TREES PER ACRE	380	420	560	390	340	320
LIVE BASAL AREA (SQ. FT/A)	156.4	179.7	205.9	215.3	175.3	166.1
LIVE TOTAL VOLUME (CU. FT/A)	3578	4471	4801	6023	4191	3710
CROWN COMPETITION FACTOR	205	234	259	242	212	197
RELATIVE DENSITY INDEX	53.1	60.4	71.9	67.9	56.2	53.2
MEAN DIAMETER (IN)	8.7	8.9	8.2	10.1	9.7	9.8
SITE HEIGHT (FEET)	60.7	69.1	64.3	73.5	64.7	61.6
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	80	114	49	0
TOPKILL VOLUME (CU. FT/A)	0.2	0.0	3.1	0.0	0.0	0.0

PLOT SUMMARY REPORT

INSTALLATION 274 CAREYWOOD CREEK
 REGION: NORTHERN IDAHO OWNERSHIP: IDL
 LEGAL DESCRIPTION: T54N R2W SECTION 16 MERIDIANS: BOISE

	PLOT NUMBER					
	1	2	3	4	5	6
TREATMENT	200 #	CONT	400 #	200 #	400 #	CONT
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	3	5	10	10	12	15
ASPECT	224	232	180	246	242	270
DOUGLAS-FIR SITE INDEX	83.3	81.2	80.1	75.4	72.6	75.2
VEGETATION SERIES	ABGR	ABGR	ABGR	THPL	THPL	THPL
PARENT MATERIAL	GTILL	GTILL	GTILL	GTILL	GTILL	GTILL
ASH DEPTH (IN)	3-12	3-12	3-12	3-12	>12	>12
SOIL DEPTH (IN)	12-24	>24	>24	>24	>24	>24
TOTAL NITROGEN (PPM)	3033	2405	3173	3454	3154	4714
TOTAL PHOSPHORUS (PPM)	1688	1428	1237	1611	1342	1376
CARBON (%)	2.2	2.1	2.3	2.0	1.9	2.0
MINERALIZABLE NITROGEN (PPM)	45	34	43	46	63	56
COARSE FRAGMENTS (%)	39.3	29.6	21.6	15.5	15.9	14.6
CORRECTED MINERALIZABLE N	27	24	33	33	53	47
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	142.5	127.6	131.8	137.4
LIVE TOTAL VOLUME (CU. FT/A)	4196	3723	4182	3685	3620	3918
CROWN COMPETITION FACTOR	134	122	144	141	147	149
RELATIVE DENSITY INDEX	36.9	33.5	39.9	38.3	40.7	40.5
MEAN DIAMETER (IN)	14.7	13.1	12.8	11.1	10.5	11.5
SITE HEIGHT (FEET)	83.9	93.5	86.6	83.6	78.3	79.7
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	100.0	89.2	100.0	94.4	97.4	97.5
GRAND FIR	0.0	0.0	0.0	2.4	0.0	0.0
WESTERN LARCH	0.0	10.8	0.0	3.2	0.0	2.5
LODGEPOLE PINE	0.0	0.0	0.0	0.0	2.5	0.0
2 YEARS AFTER TREATMENT (1984)						
LIVE TREES PER ACRE	120	130	150	190	220	190
LIVE BASAL AREA (SQ. FT/A)	152.0	126.3	133.8	140.7	143.5	147.6
LIVE TOTAL VOLUME (CU. FT/A)	4196	3723	4182	3685	3620	3918
CROWN COMPETITION FACTOR	142	126	135	152	156	156
RELATIVE DENSITY INDEX	38.9	34.6	37.4	41.2	43.4	42.7
MEAN DIAMETER (IN)	15.2	13.3	12.8	11.6	10.9	11.9
DEAD TREES PER ACRE	0	0	10	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	19.6	0.0	0.0	0.0
4 YEARS AFTER TREATMENT (1986)						
LIVE TREES PER ACRE	120	130	140	190	210	190
LIVE BASAL AREA (SQ. FT/A)	161.0	130.8	140.1	151.1	151.7	156.1
LIVE TOTAL VOLUME (CU. FT/A)	5003	4119	4261	4483	4368	4595
CROWN COMPETITION FACTOR	148	129	137	161	163	163
RELATIVE DENSITY INDEX	40.6	35.5	38.1	43.5	44.7	44.6
MEAN DIAMETER (IN)	15.7	13.6	13.5	12.1	11.5	12.3
SITE HEIGHT (FEET)	88.5	92.9	89.4	87.1	83.2	83.5
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
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

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
TREATMENT	400 #	200 #	CONT	200 #	400 #	CONT
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	50	15	15	15	30	30
ASPECT	270	224	270	262	240	244
DOUGLAS-FIR SITE INDEX	55.8	62.9	79.8	61.1	61.6	75.9
VEGETATION SERIES	PSME	PSME	PSME	PSME	PSME	PSME
PARENT MATERIAL	GTILL	GTILL	GTILL	GTILL	GTILL	GTILL
ASH DEPTH (IN)	<3	<3	<3	<3	<3	<3
SOIL DEPTH (IN)	>24	12-24	>24	>24	>24	>24
TOTAL NITROGEN (PPM)	1818	5667	5111	3456	4929	4619
TOTAL PHOSPHORUS (PPM)	1206	2156	1123	429	867	782
CARBON (%)	1.4	2.3	2.2	1.5	2.2	1.6
MINERALIZABLE NITROGEN (PPM)	40	56	56	41	46	39
COARSE FRAGMENTS (%)	19.4	23.0	22.6	21.6	24.9	17.8
CORRECTED MINERALIZABLE N	32	43	43	32	35	32
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	213	193	176	182
RELATIVE DENSITY INDEX	50.8	64.8	60.2	53.0	49.1	51.3
MEAN DIAMETER (IN)	10.1	9.9	10.3	10.4	8.9	9.5
SITE HEIGHT (FEET)	77.3	80.7	85.7	81.1	71.6	67.0
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	93.3	100.0	100.0	96.7	100.0	88.8
WESTERN LARCH	0.6	0.0	0.0	2.1	0.0	0.0
PONDEROSA PINE	6.1	0.0	0.0	1.2	0.0	11.2
2 YEARS AFTER TREATMENT (1984)						
LIVE TREES PER ACRE	290	380	310	290	340	320
LIVE BASAL AREA (SQ. FT/A)	174.0	214.7	203.1	181.5	157.4	166.8
LIVE TOTAL VOLUME (CU. FT/A)	190	240	227	201	188	189
CROWN COMPETITION FACTOR	53.7	67.3	62.5	55.4	51.9	53.3
RELATIVE DENSITY INDEX	10.5	10.2	11.1	10.7	9.2	9.8
MEAN DIAMETER (IN)	0	0	0	0	0	0
DEAD TREES PER ACRE	0.0	0.0	0.0	0.0	0.0	0.0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
4 YEARS AFTER TREATMENT (1986)						
LIVE TREES PER ACRE	290	380	310	290	340	320
LIVE BASAL AREA (SQ. FT/A)	185.8	224.5	217.4	191.5	169.3	174.8
LIVE TOTAL VOLUME (CU. FT/A)	5093	6348	6353	5692	4332	4463
CROWN COMPETITION FACTOR	199	249	234	211	199	197
RELATIVE DENSITY INDEX	56.4	69.6	64.5	57.7	54.9	55.3
MEAN DIAMETER (IN)	10.8	10.4	11.3	11.0	9.6	10.0
SITE HEIGHT (FEET)	81.4	84.1	87.9	85.0	76.2	71.0
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
TOPKILL VOLUME (CU. FT/A)	0.0	0.6	0.0	0.0	0.6	0.0

PLOT SUMMARY REPORT

INSTALLATION 276 MILL CREEK
 REGION: CENTRAL IDAHO OWNERSHIP: BOISE CASCADE
 LEGAL DESCRIPTION: T19N R1E SECTION 34 MERIDIAN: BOISE

TREATMENT	PLOT NUMBER					
	1	2	3	4	5	6
	400 #	200 #	CONT	CONT	200 #	400 #
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	25	25	12	25	25	5
ASPECT	82	65	22	70	60	14
DOUGLAS-FIR SITE INDEX	70.7	60.2	63.0	66.4	62.9	67.3
VEGETATION SERIES	PSME	PSME	PSME	PSME	PSME	PSME
PARENT MATERIAL	BSALT	BSALT	BSALT	BSALT	BSALT	BSALT
ASH DEPTH (IN)	0	0	0	0	0	0
SOIL DEPTH (IN)	12-24	>24	12-24	12-24	12-24	12-24
TOTAL NITROGEN (PPM)	2413	2387	3945	2455	1745	1956
TOTAL PHOSPHORUS (PPM)	1114	1367	1509	1254	1288	1014
CARBON (%)	4.1	3.3	4.7	3.5	2.4	2.3
MINERALIZABLE NITROGEN (PPM)	62	50	79	62	50	55
COARSE FRAGMENTS (%)	22.2	25.8	25.9	20.9	15.2	14.4
CORRECTED MINERALIZABLE N	48	37	58	49	42	47
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	45.1	44.4	41.9	42.0
MEAN DIAMETER (IN)	10.5	10.0	10.3	11.3	11.0	10.4
SITE HEIGHT (FEET)	62.2	67.5	63.3	70.8	71.0	72.2
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	93.9	83.0	91.8	85.0	76.0	86.9
PONDEROSA PINE	6.1	17.0	8.2	15.0	24.0	13.1
2 YEARS AFTER TREATMENT (1984)						
LIVE TREES PER ACRE	250	300	250	200	210	230
LIVE BASAL AREA (SQ. FT/A)	160.0	173.5	151.8	162.4	147.5	147.7
CROWN COMPETITION FACTOR	179	190	168	164	150	163
RELATIVE DENSITY INDEX	48.6	54.1	46.7	46.5	43.8	44.8
MEAN DIAMETER (IN)	10.8	10.3	10.5	12.2	11.3	10.8
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
4 YEARS AFTER TREATMENT (1986)						
LIVE TREES PER ACRE	250	300	250	200	210	230
LIVE BASAL AREA (SQ. FT/A)	170.4	184.0	160.4	173.3	157.0	160.3
LIVE TOTAL VOLUME (CU. FT/A)	4080	4580	3828	4419	4249	4293
CROWN COMPETITION FACTOR	189	198	175	173	157	174
RELATIVE DENSITY INDEX	51.0	56.5	48.7	48.8	45.9	47.7
MEAN DIAMETER (IN)	11.2	10.6	10.8	12.6	11.7	11.3
SITE HEIGHT (FEET)	66.2	72.5	66.6	74.8	75.9	76.3
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
TOPKILL VOLUME (CU. FT/A)	2.8	0.4	0.0	0.0	0.0	0.0

PLOT SUMMARY REPORT

INSTALLATION 277 LITTLE MUD CREEK #2
 REGION: CENTRAL IDAHO OWNERSHIP: BOISE CASCADE
 LEGAL DESCRIPTION: T20N R1E SECTION 34 MERIDIAN: BOISE

TREATMENT	PLOT NUMBER					
	1 200 #	2 400 #	3 CONT	4 CONT	5 400 #	6 200 #
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	7	7	15	16	9	15
ASPECT	22	57	30	34	50	87
DOUGLAS-FIR SITE INDEX	64.3	64.9	65.6	56.9	55.6	54.5
VEGETATION SERIES	PSME	PSME	PSME	PSME	PSME	PSME
PARENT MATERIAL	BSALT	BSALT	BSALT	BSALT	BSALT	BSALT
ASH DEPTH (IN)	0	0	0	0	0	0
SOIL DEPTH (IN)	12-24	12-24	12-24	>24	12-24	>24
TOTAL NITROGEN (PPM)	1975	1976	1732	1650	1723	1543
TOTAL PHOSPHORUS (PPM)	1288	1171	1310	1079	1027	1516
CARBON (%)	2.3	2.6	2.3	2.5	2.3	2.3
MINERALIZABLE NITROGEN (PPM)	45	47	50	50	39	48
COARSE FRAGMENTS (%)	10.6	16.2	16.3	32.8	21.5	17.2
CORRECTED MINERALIZABLE N	41	40	42	34	31	40
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
SITE HEIGHT (FEET)	69.7	65.8	71.1	52.8	62.8	57.7
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	70.3	76.1	83.1	65.9	80.3	90.0
PONDEROSA PINE	29.7	23.9	16.9	34.1	19.7	10.0
2 YEARS AFTER TREATMENT (1984)						
LIVE TREES PER ACRE	290	260	300	200	210	160
LIVE BASAL AREA (SQ. FT/A)	194.7	170.0	193.8	118.3	123.9	104.3
CROWN COMPETITION FACTOR	205	180	213	125	139	114
RELATIVE DENSITY INDEX	58.4	51.4	58.7	36.6	38.4	31.5
MEAN DIAMETER (IN)	11.1	10.9	10.9	10.4	10.4	10.9
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
4 YEARS AFTER TREATMENT (1986)						
LIVE TREES PER ACRE	290	260	300	200	210	160
LIVE BASAL AREA (SQ. FT/A)	210.4	182.1	207.7	129.7	135.2	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
SITE HEIGHT (FEET)	74.3	70.7	76.4	58.4	66.9	62.2
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
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

PLOT SUMMARY REPORT

INSTALLATION 278 WET GULCH
 REGION: CENTRAL IDAHO
 LEGAL DESCRIPTION: T7N R5E SECTION 19

OWNERSHIP: BOISE CASCADE
 MERIDIAN: BOISE

TREATMENT	PLOT NUMBER					
	1 400 #	2 CONT	3 200 #	4 CONT	5 200 #	6 400 #
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	22	5	23	10	30	35
ASPECT	60	28	8	34	4	40
DOUGLAS-FIR SITE INDEX	54.4	63.1	45.6	59.4	53.2	50.8
VEGETATION SERIES	PSME	PSME	PSME	PSME	PSME	PSME
PARENT MATERIAL	GRAN	GRAN	GRAN	GRAN	GRAN	GRAN
ASH DEPTH (IN)	0	0	0	0	0	0
SOIL DEPTH (IN)	>24	>24	>24	>24	>24	>24
TOTAL NITROGEN (PPM)	757	834	696	830	825	873
TOTAL PHOSPHORUS (PPM)	359	355	199	380	350	405
CARBON (%)	0.8	1.6	1.2	1.3	1.2	1.1
MINERALIZABLE NITROGEN (PPM)	19	26	24	26	21	22
CCARSE FRAGMENTS (%)	16.7	21.6	23.4	14.4	22.2	17.8
CORRECTED MINERALIZABLE N	15	21	18	23	16	18
MEASUREMENTAL 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	119.5	126.2
LIVE TOTAL VOLUME (CU. FT/A)	2211	2308	2043	2939	3172	3499
CROWN COMPETITION FACTOR	106	97	91	117	133	143
RELATIVE DENSITY INDEX	29.8	29.2	25.8	32.6	37.0	38.9
MEAN DIAMETER (IN)	9.7	10.0	10.4	10.0	10.5	10.5
SITE HEIGHT (FEET)	74.1	70.0	70.8	81.6	78.9	82.9
SPECIES COMPOSITION (% OF 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	10.3	10.9	10.9
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
4 YEARS AFTER TREATMENT (1986)						
LIVE TREES PER ACRE	180	170	140	190	200	200
LIVE BASAL AREA (SQ. FT/A)	112.8	106.7	99.7	119.3	141.5	142.3
LIVE TOTAL VOLUME (CU. FT/A)	2806	2761	2508	3476	3865	4075
CROWN COMPETITION FACTOR	124	110	104	130	152	154
RELATIVE DENSITY INDEX	34.4	32.6	29.3	36.4	41.9	42.1
MEAN DIAMETER (IN)	10.7	10.7	11.4	10.7	11.4	11.4
SITE HEIGHT (FEET)	78.1	72.6	73.8	84.0	83.0	87.0
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	0	0	143
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	2.2	0.0	0.0

PLOT SUMMARY REPORT

INSTALLATION 279 HENRY CREEK
 REGION: CENTRAL IDAHO OWNERSHIP: BOISE CASCADE
 LEGAL DESCRIPTION: T7N R5E SECTION 28 MERIDIAN: BOISE

TREATMENT	PLOT NUMBER					
	1 CONT	2 200 #	3 400 #	4 400 #	5 CONT	6 200 #
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	18	15	23	40	30	20
ASPECT	270	254	242	25	340	350
DOUGLAS-FIR SITE INDEX	51.3	65.4	58.7	53.5	59.2	58.3
VEGETATION SERIES	PSME	PSME	PSME	PSME	PSME	PSME
PARENT MATERIAL	GRAN	GRAN	GRAN	GRAN	GRAN	GRAN
ASH DEPTH (IN)	0	0	0	0	0	0
SOIL DEPTH (IN)	>24	>24	>24	>24	>24	>24
TOTAL NITROGEN (PPM)	710	1159	616	273	838	1106
TOTAL PHOSPHORUS (PPM)	439	406	269	230	451	570
CARBON (%)	1.1	1.2	1.2	1.7	1.1	1.5
MINERALIZABLE NITROGEN (PPM)	20	40	22	21	23	37
COARSE FRAGMENTS (%)	34.6	23.6	24.2	24.8	17.8	18.2
CORRECTED MINERALIZABLE N	13	30	17	16	19	31
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	131.8	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	54.5	45.8	46.9
MEAN DIAMETER (IN)	11.5	12.2	9.7	11.1	11.7	10.9
SITE HEIGHT (FEET)	75.5	82.4	66.0	86.5	80.2	79.9
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
LIVE TOTAL VOLUME (CU. FT/A)	145	135	140	194	168	167
CROWN COMPETITION FACTOR	40.5	37.3	41.0	56.7	47.6	47.9
RELATIVE DENSITY INDEX	11.9	12.8	10.2	11.4	12.0	11.3
MEAN DIAMETER (IN)	0	0	0	0	0	10
DEAD TREES PER ACRE	0.0	0.0	0.0	0.0	0.0	4.1
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	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
SITE HEIGHT (FEET)	79.4	86.2	70.7	90.5	83.7	84.7
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
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

PLOT SUMMARY REPORT

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

TREATMENT	PLOT NUMBER					
	1	2	3	4	5	6
	CONT	200 #	400 #	200 #	400 #	CONT
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	20	40	30	55	35	45
ASPECT	210	220	185	310	265	292
DOUGLAS-FIR SITE INDEX	60.0	71.4	60.9	65.4	74.2	59.7
VEGETATION SERIES	PSME	PSME	PSME	PSME	PSME	PSME
PARENT MATERIAL	GRAN	GRAN	GRAN	GRAN	GRAN	GRAN
ASH DEPTH (IN)	0	0	0	0	0	0
SOIL DEPTH (IN)	>24	>24	>24	>24	>24	>24
TOTAL NITROGEN (PPM)	952	456	833	767	579	359
TOTAL PHOSPHORUS (PPM)	570	22	67	135	127	160
CARBON (%)	1.5	1.1	1.4	1.0	3.8	0.9
MINERALIZABLE NITROGEN (PPM)	22	23	26	26	20	23
COARSE FRAGMENTS (%)	25.6	28.6	36.0	33.2	25.2	28.3
CORRECTED MINERALIZABLE N	16	16	17	17	15	17
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	36.9	46.9	48.6
MEAN DIAMETER (IN)	10.3	10.7	10.3	9.3	9.0	11.4
SITE HEIGHT (FEET)	65.0	66.1	64.0	66.6	68.6	75.6
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	76.3	83.4	77.6	72.2	59.1	70.6
PONDEROSA PINE	23.7	16.6	22.4	27.8	40.9	29.4
2 YEARS AFTER TREATMENT (1984)						
LIVE TREES PER ACRE	190	170	240	240	320	230
LIVE BASAL AREA (SQ. FT/A)	120.6	118.7	152.1	125.9	154.5	173.8
CROWN COMPETITION FACTOR	131	125	162	139	165	178
RELATIVE DENSITY INDEX	36.7	35.3	46.3	40.2	50.4	50.7
MEAN DIAMETER (IN)	10.8	11.3	10.8	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	137.5	168.0	184.4
LIVE TOTAL VOLUME (CU. FT/A)	2837	3152	4093	3443	4447	5329
CROWN COMPETITION FACTOR	131	134	172	148	175	186
RELATIVE DENSITY INDEX	35.5	37.9	49.0	43.0	53.6	53.0
MEAN DIAMETER (IN)	10.9	11.9	11.2	10.3	9.8	12.1
SITE HEIGHT (FEET)	65.5	69.9	68.0	71.6	74.0	79.3
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	0	0	0	0
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	1.2	0.0	0.0	0.0

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
TREATMENT	CONT	200 #	400 #	200 #	400 #	CONT
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	40	50	35	25	30	40
ASPECT	320	300	282	306	295	308
DOUGLAS-FIR SITE INDEX	91.6	93.6	91.3	85.7	84.2	86.9
VEGETATION SERIES	TSHE	TSHE	TSHE	TSHE	TSHE	TSHE
PARENT MATERIAL	ASH/M	ASH/M	ASH/M	ASH/M	ASH/M	ASH/M
ASH DEPTH (IN)	>12	>12	>12	>12	>12	>12
SOIL DEPTH (IN)	>24	>24	>24	>24	>24	>24
TOTAL NITROGEN (PPM)	1480	1292	1152	1355	1116	1264
TOTAL PHOSPHORUS (PPM)	1836	2284	2424	2161	1182	812
CARBON (%)	1.9	1.5	2.0	1.9	1.6	1.7
MINERALIZABLE NITROGEN (PPM)	43	45	44	40	35	34
COARSE FRAGMENTS (%)	15.1	20.6	21.1	22.1	18.1	16.4
CORRECTED MINERALIZABLE N	37	36	35	31	29	28
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
SITE HEIGHT (FEET)	77.9	67.4	74.9	75.2	77.2	73.3
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	82.8	91.1	97.0	100.0	89.6	85.8
GRAND FIR	10.2	4.9	3.0	0.0	4.5	2.1
WESTERN 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	8.8	9.4	8.1
DEAD TREES PER ACRE	0	0	0	10	10	10
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	1.0	1.0	1.1
4 YEARS AFTER TREATMENT (1986)						
LIVE TREES PER ACRE	470	400	310	500	420	580
LIVE BASAL AREA (SQ. FT/A)	228.4	205.6	215.0	233.2	224.4	222.4
LIVE TOTAL VOLUME (CU. FT/A)	6451	5357	5907	6471	6257	5889
CROWN COMPETITION FACTOR	267	230	224	279	260	264
RELATIVE DENSITY INDEX	74.3	66.0	64.0	76.7	71.3	76.8
MEAN DIAMETER (IN)	9.4	9.7	11.3	9.3	9.9	8.4
SITE HEIGHT (FEET)	82.7	73.4	80.8	81.2	82.7	79.0
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)	0	0	51	306	591	81
TOPKILL VOLUME (CU. FT/A)	2.8	0.4	0.3	1.3	3.5	0.7

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
TREATMENT	400 #	200 #	CONT	200 #	CONT	400 #
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	15	8	12	15	18	35
ASPECT	346	5	20	357	320	320
DOUGLAS-FIR SITE INDEX	61.8	72.0	56.5	56.4	67.2	57.8
VEGETATION SERIES	PSME	PSME	PSME	PSME	PSME	PSME
PARENT MATERIAL	GTILL	GTILL	GTILL	GTILL	GTILL	GTILL
ASH DEPTH (IN)	>12	>12	>12	>12	>12	>12
SOIL DEPTH (IN)	>24	>24	>24	>24	>24	>24
TOTAL NITROGEN (PPM)	525	504	608	523	416	401
TOTAL PHOSPHORUS (PPM)	1222	1244	1148	1221	1392	1221
CARBON (%)	1.0	1.0	0.7	1.4	0.9	1.1
MINERALIZABLE NITROGEN (PPM)	13	12	17	14	14	16
COARSE FRAGMENTS (%)	8.4	12.7	12.3	11.1	16.8	7.2
CORRECTED MINERALIZABLE N	12	10	15	13	12	15
MEASUREMENTAL 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	42.6
MEAN DIAMETER (IN)	8.8	7.6	7.9	7.7	8.0	7.0
SITE HEIGHT (FEET)	74.2	66.3	62.5	62.9	68.7	62.0
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	91.8	86.7	93.5	90.8	86.1	81.3
WESTERN LARCH	2.4	6.6	0.0	5.4	7.7	18.8
PONDEROSA PINE	5.7	6.8	6.5	3.8	6.3	0.0
2 YEARS AFTER TREATMENT (1984)						
LIVE TREES PER ACRE	250	310	310	270	320	420
LIVE BASAL AREA (SQ. FT/A)	122.0	111.9	116.8	105.2	124.8	132.1
CROWN COMPETITION FACTOR	141	135	142	129	148	161
RELATIVE DENSITY INDEX	39.7	39.2	40.5	36.2	42.9	47.9
MEAN DIAMETER (IN)	9.5	8.1	8.3	8.4	8.5	7.6
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
4 YEARS AFTER TREATMENT (1986)						
LIVE TREES PER ACRE	250	300	310	270	320	420
LIVE BASAL AREA (SQ. FT/A)	131.9	118.1	123.6	116.0	132.3	142.0
LIVE TOTAL VOLUME (CU. FT/A)	3553	2948	2799	2681	3234	3016
CROWN COMPETITION FACTOR	151	140	148	140	155	173
RELATIVE DENSITY INDEX	42.1	40.5	42.3	38.9	44.8	50.6
MEAN DIAMETER (IN)	9.8	8.5	8.5	8.9	8.7	7.9
SITE HEIGHT (FEET)	77.4	71.2	65.1	68.7	71.7	67.2
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
TOPKILL VOLUME (CU. FT/A)	0.0	0.2	0.0	0.0	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

TREATMENT	PLOT NUMBER					
	1	2	3	4	5	6
	CONT	400 #	200 #	CONT	400 #	200 #
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	5	5	5	0	25	15
ASPECT	4	48	160	0	57	36
DOUGLAS-FIR SITE INDEX	51.8	47.0	49.0	57.2	68.2	69.0
VEGETATION SERIES	PSME	PSME	PSME	PSME	PSME	PSME
PARENT MATERIAL	GTILL	GTILL	GTILL	GTILL	GTILL	GTILL
ASH DEPTH (IN)	>12	>12	>12	>12	>12	>12
SOIL DEPTH (IN)	>24	>24	>24	>24	>24	>24
TOTAL NITROGEN (PPM)	370	401	331	488	464	495
TOTAL PHOSPHORUS (PPM)	1187	1118	955	400	466	391
CARBON (%)	0.8	0.9	0.7	0.8	0.9	1.0
MINERALIZABLE NITROGEN (PPM)	11	14	16	12	11	13
COARSE FRAGMENTS (%)	4.7	7.5	7.0	6.4	7.8	37.8
CORRECTED MINERALIZABLE N	10	13	15	12	10	8
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
SITE HEIGHT (FEET)	61.0	60.6	61.0	60.2	61.7	60.7
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	85.1	91.0	74.1	95.0	89.8	96.7
WESTERN LARCH	0.0	9.0	10.6	0.0	8.8	0.0
LODGEPOLE PINE	14.9	0.0	15.3	5.0	0.0	0.0
PONDEROSA PINE	0.0	0.0	0.0	0.0	1.4	3.3
2 YEARS AFTER TREATMENT (1984)						
LIVE TREES PER ACRE	280	280	270	300	290	280
LIVE BASAL AREA (SQ. FT/A)	109.0	112.3	116.8	117.4	114.5	113.2
CROWN COMPETITION FACTOR	130	135	137	145	139	136
RELATIVE DENSITY INDEX	37.5	38.3	39.1	40.3	39.3	38.6
MEAN DIAMETER (IN)	8.4	8.6	8.9	8.5	8.5	8.6
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
4 YEARS AFTER TREATMENT (1986)						
LIVE TREES PER ACRE	280	280	270	300	290	280
LIVE BASAL AREA (SQ. FT/A)	116.5	127.3	129.3	124.6	128.3	124.4
LIVE TOTAL VOLUME (CU. FT/A)	2648	2808	3110	2936	2927	2712
CROWN COMPETITION FACTOR	137	152	147	152	152	148
RELATIVE DENSITY INDEX	39.4	42.3	42.0	42.2	42.7	41.4
MEAN DIAMETER (IN)	8.7	9.1	9.3	8.7	9.0	9.0
SITE HEIGHT (FEET)	64.1	66.8	65.8	63.9	66.9	64.8
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
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

PLOT SUMMARY REPORT

INSTALLATION 284 N.F. VALLEY CREEK
 REGION: MONTANA OWNERSHIP: FLATHEAD (BIA)
 LEGAL DESCRIPTION: T17N R21W SECTION 22 MERIDIAN: PRINCIPAL

TREATMENT	PLOT NUMBER					
	1	2	3	4	5	6
	400 #	200 #	CONT	400 #	200 #	CONT
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	10	10	10	10	13	10
ASPECT	62	62	55	55	64	62
DOUGLAS-FIR SITE INDEX	77.5	75.9	64.6	57.8	52.0	60.0
VEGETATION SERIES	PSME	PSME	PSME	PSME	PSME	PSME
PARENT MATERIAL	VFILL	VFILL	VFILL	VFILL	VFILL	VFILL
ASH DEPTH (IN)	0	0	0	0	0	0
SOIL DEPTH (IN)	12-24	12-24	12-24	12-24	12-24	12-24
TOTAL NITROGEN (PPM)	2827	2532	2588	1389	1920	2110
TOTAL PHOSPHORUS (PPM)	368	364	273	365	351	315
CARBON (%)	4.2	3.4	3.3	2.4	2.7	3.0
MINERALIZABLE NITROGEN (PPM)	77	82	98	58	62	80
COARSE FRAGMENTS (%)	37.6	37.5	37.5	31.8	35.5	31.3
CORRECTED MINERALIZABLE N	48	51	61	40	40	55
MEASUREMENTAL 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	46.3	31.8	29.4	34.1
MEAN DIAMETER (IN)	15.6	13.5	14.8	10.5	11.4	10.6
SITE HEIGHT (FEET)	90.4	82.0	88.1	66.0	66.5	62.1
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	100.0	93.5	97.7	100.0	96.0	100.0
PONDEROSA PINE	0.0	6.5	2.3	0.0	4.0	0.0
2 YEARS AFTER TREATMENT (1984)						
LIVE TREES PER ACRE	140	150	150	170	140	180
LIVE BASAL AREA (SQ. FT/A)	192.4	156.6	188.9	110.3	104.9	117.2
LIVE TOTAL VOLUME (CU. FT/A)	179	152	174	125	112	132
CROWN COMPETITION FACTOR	179	152	174	125	112	132
RELATIVE DENSITY INDEX	48.3	42.1	48.5	33.4	30.8	35.4
MEAN DIAMETER (IN)	15.9	13.3	15.2	10.9	11.7	10.9
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
4 YEARS AFTER TREATMENT (1986)						
LIVE TREES PER ACRE	140	150	150	170	140	180
LIVE BASAL AREA (SQ. FT/A)	198.3	162.1	194.7	115.7	109.4	122.2
LIVE TOTAL VOLUME (CU. FT/A)	6316	4916	6011	2709	2688	2680
CROWN COMPETITION FACTOR	183	156	178	129	117	136
RELATIVE DENSITY INDEX	49.4	43.2	49.6	34.6	31.6	36.6
MEAN DIAMETER (IN)	16.1	14.1	15.4	11.2	12.0	11.2
SITE HEIGHT (FEET)	92.2	83.7	90.0	68.4	68.6	63.8
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
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

PLOT SUMMARY REPORT

INSTALLATION 265 S.F. VALLEY CREEK
 REGION: MONTANA OWNERSHIP: FLATHEAD (BIA)
 LEGAL DESCRIPTION: T16N R21W SECTION 2 MERIDIAN: PRINCIPAL

PLOT NUMBER

TREATMENT	PLOT NUMBER					
	1 CONT	2 200 #	3 400 #	4 400 #	5 CONT	6 200 #
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	25	10	8	17	20	22
ASPECT	70	52	90	172	130	130
DOUGLAS-FIR SITE INDEX	58.5	59.1	71.5	57.3	56.6	56.8
VEGETATION SERIES	PSME	PSME	PSME	PSME	PSME	PSME
PARENT MATERIAL	VFILL	VFILL	VFILL	VFILL	VFILL	VFILL
ASH DEPTH (IN)	0	0	0	0	0	0
SOIL DEPTH (IN)	>24	>24	>24	12-24	>24	>24
TOTAL NITROGEN (PPM)	1562	1792	1762	1293	1787	1486
TOTAL PHOSPHORUS (PPM)	234	337	312	460	460	345
CARBON (%)	1.9	2.4	2.8	1.8	2.5	2.1
MINERALIZABLE NITROGEN (PPM)	32	51	52	50	51	35
COARSE FRAGMENTS (%)	18.9	16.6	18.2	21.7	25.3	26.3
CORRECTED MINERALIZABLE N	67	42	43	39	38	26
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	12.5	11.1
SITE HEIGHT (FEET)	77.7	68.2	74.3	70.2	71.0	66.1
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	100.0	90.5	100.0	100.0	100.0	100.0
PONDEROSA PINE	0.0	9.5	0.0	0.0	0.0	0.0
2 YEARS AFTER TREATMENT (1984)						
LIVE TREES PER ACRE	180	180	150	120	140	160
LIVE BASAL AREA (SQ. FT/A)	140.1	122.2	129.5	112.0	124.0	111.9
LIVE TOTAL VOLUME (CU. FT/A)	3898	3112	3550	2857	3208	2844
CROWN COMPETITION FACTOR	153	135	139	112	136	131
RELATIVE DENSITY INDEX	41.6	38.0	37.9	29.8	35.7	34.4
MEAN DIAMETER (IN)	12.2	11.4	12.9	13.5	13.0	11.6
SITE HEIGHT (FEET)	80.2	70.8	74.3	72.7	73.1	67.9
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)	0	0	0	177	0	0
TOPKILL VOLUME (CU. FT/A)	1.0	0.0	0.0	0.0	0.0	0.0
4 YEARS AFTER TREATMENT (1986)						
LIVE TREES PER ACRE	180	180	150	110	140	160
LIVE BASAL AREA (SQ. FT/A)	145.2	128.5	136.0	109.6	128.7	116.9
LIVE TOTAL VOLUME (CU. FT/A)	3898	3112	3550	2857	3208	2844
CROWN COMPETITION FACTOR	153	135	139	112	136	131
RELATIVE DENSITY INDEX	41.6	38.0	37.9	29.8	35.7	34.4
MEAN DIAMETER (IN)	12.2	11.4	12.9	13.5	13.0	11.6
SITE HEIGHT (FEET)	80.2	70.8	74.3	72.7	73.1	67.9
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)	0	0	0	177	0	0
TOPKILL VOLUME (CU. FT/A)	1.0	0.0	0.0	0.0	0.0	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
TREATMENT	200 #	CONT	400 #	CONT	200 #	400 #
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	60	45	37	40	35	55
ASPECT	338	305	303	326	340	330
DOUGLAS-FIR SITE INDEX	64.5	85.0	69.4	75.0	68.1	69.5
VEGETATION SERIES	ABGR	ABGR	ABGR	ABGR	TSHE	ABGR
PARENT MATERIAL	ASH/M	ASH/M	ASH/M	ASH/M	ASH/M	ASH/M
ASH DEPTH (IN)	<3	<3	<3	<3	<3	<3
SOIL DEPTH (IN)	12-24	>24	>24	>24	>24	12-24
TOTAL NITROGEN (PPM)	1540	1660	1428	1606	1421	1695
TOTAL PHOSPHORUS (PPM)	560	597	397	275	669	797
CARBON (%)	2.1	3.3	2.4	3.0	2.6	2.6
MINERALIZABLE NITROGEN (PPM)	49	68	68	68	66	53
COARSE FRAGMENTS (%)	42.4	51.2	41.8	33.8	41.7	39.7
CORRECTED MINERALIZABLE N	28	33	39	45	38	32
MENSURATIONAL CHARACTERISTICS:						
AT TIME OF TREATMENT (1982)	STAND AGE = 33					
LIVE TREES PER ACRE	190	230	250	240	240	290
LIVE BASAL AREA (SQ. FT/A)	191.6	216.2	249.7	201.5	189.8	223.1
LIVE TOTAL VOLUME (CU. FT/A)	5652	7152	7922	6467	6329	6644
CROWN COMPETITION FACTOR	195	223	249	214	197	243
RELATIVE DENSITY INDEX	51.9	59.7	67.9	57.2	54.7	64.7
MEAN DIAMETER (IN)	13.6	13.1	13.5	12.4	12.0	11.9
SITE HEIGHT (FEET)	91.5	96.3	93.8	90.9	99.6	89.9
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	100.0	100.0	100.0	100.0	100.0	100.0
2 YEARS AFTER TREATMENT (1984)						
LIVE TREES PER ACRE	190	230	250	240	240	290
LIVE BASAL AREA (SQ. FT/A)	202.8	224.4	263.6	208.9	198.9	234.5
CROWN COMPETITION FACTOR	203	229	258	219	204	253
RELATIVE DENSITY INDEX	54.2	61.4	70.7	58.8	56.6	67.2
MEAN DIAMETER (IN)	14.0	13.4	13.9	12.6	12.3	12.2
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
4 YEARS AFTER TREATMENT (1986)						
LIVE TREES PER ACRE	190	230	250	240	240	290
LIVE BASAL AREA (SQ. FT/A)	211.7	233.2	275.0	217.4	207.3	244.4
LIVE TOTAL VOLUME (CU. FT/A)	6509	7940	9076	7175	7213	7588
CROWN COMPETITION FACTOR	209	235	266	225	210	261
RELATIVE DENSITY INDEX	56.0	63.2	73.0	60.6	58.4	69.3
MEAN DIAMETER (IN)	14.3	13.6	14.2	12.9	12.6	12.4
SITE HEIGHT (FEET)	95.5	99.7	98.2	93.6	104.1	94.0
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
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

PLOT SUMMARY REPORT

INSTALLATION 287 JIM FORD CREEK OWNERSHIP: POTLATCH
 REGION: NORTHERN IDAHO MERIDIAN: BOISE
 LEGAL DESCRIPTION: T35N R4E SECTION 8

TREATMENT	PLOT NUMBER					
	1	2	3	4	5	6
	CONT	400 #	200 #	CONT	200 #	400 #
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	5	9	10	4	5	5
ASPECT	353	28	25	110	308	270
DOUGLAS-FIR SITE INDEX	63.4	76.7	76.8	73.3	66.6	71.9
VEGETATION SERIES	ABGR	ABGR	ABGR	ABGR	ABGR	ABGR
PARENT MATERIAL	ASH/L	ASH/L	ASH/L	ASH/L	ASH/L	ASH/L
ASH DEPTH (IN)	<3	<3	<3	<3	<3	<3
SCIL DEPTH (IN)	>24	>24	>24	>24	>24	>24
TOTAL NITROGEN (PPM)	555	590	614	591	749	707
TOTAL PHOSPHORUS (PPM)	406	506	529	446	441	468
CARBON (%)	0.7	1.0	0.7	0.6	0.9	1.0
MINERALIZABLE NITROGEN (PPM)	25	22	24	12	18	23
COARSE FRAGMENTS (%)	4.8	8.8	7.2	10.5	9.5	13.5
CORRECTED MINERALIZABLE N	24	20	23	11	16	20
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	5676	4250	3930	3910
CROWN COMPETITION FACTOR	204	188	261	208	199	196
RELATIVE DENSITY INDEX	60.2	51.7	70.7	60.0	57.4	56.0
MEAN DIAMETER (IN)	9.0	9.2	8.9	8.4	8.1	8.0
SITE HEIGHT (FEET)	83.4	81.0	77.5	70.1	71.0	73.4
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	59.2	86.5	83.9	88.1	89.7	86.1
GRAND FIR	8.4	8.4	10.5	0.0	0.0	5.4
WESTERN LARCH	29.2	5.1	5.6	10.3	10.3	8.5
LODGEPOLE PINE	0.0	0.0	0.0	1.6	0.0	0.0
PONDEROSA PINE	3.2	0.0	0.0	0.0	0.0	0.0
2 YEARS AFTER TREATMENT (1984)						
LIVE TREES PER ACRE	410	340	490	450	460	450
LIVE BASAL AREA (SQ. FT/A)	188.6	167.8	223.2	181.7	177.7	174.3
CROWN COMPETITION FACTOR	212	197	273	214	213	213
RELATIVE DENSITY INDEX	62.2	54.4	73.8	61.9	61.3	60.0
MEAN DIAMETER (IN)	9.2	9.5	9.1	8.6	8.4	8.4
DEAD TREES PER ACRE	0	0	0	0	0	0
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0
4 YEARS AFTER TREATMENT (1986)						
LIVE TREES PER ACRE	410	340	490	450	460	450
LIVE BASAL AREA (SQ. FT/A)	196.4	177.9	235.0	189.5	189.1	186.3
LIVE TOTAL VOLUME (CU. FT/A)	5498	5271	6714	4865	4854	4942
CROWN COMPETITION FACTOR	220	207	285	221	225	225
RELATIVE DENSITY INDEX	64.2	56.8	76.7	63.9	64.2	63.1
MEAN DIAMETER (IN)	9.4	9.8	9.4	8.8	8.7	8.7
SITE HEIGHT (FEET)	88.3	86.0	82.1	74.5	76.5	80.5
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
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	0.0	0.0	0.0	0.0

PLOT SUMMARY REPORT

INSTALLATION 288 MICA MTN
 REGION: NORTHERN IDAHO
 LEGAL DESCRIPTION: T49N R5W

OWNERSHIP: INLAND EMPIRE
 SECTION 33 MERIDIAN: BOISE

TREATMENT	PLOT NUMBER					
	1 CONT	2 200 #	3 400 #	4 CONT	5 400 #	6 200 #
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	15	35	22	17	20	17
ASPECT	190	256	242	118	150	148
DOUGLAS-FIR SITE INDEX	83.5	84.4	84.8	91.1	89.0	93.3
VEGETATION SERIES	ABGR	ABGR	ABGR	THPL	THPL	THPL
PARENT MATERIAL	ASH/L	ASH/L	ASH/L	ASH/L	ASH/L	ASH/L
ASH DEPTH (IN)	3-12	3-12	3-12	>12	3-12	3-12
SOIL DEPTH (IN)	>24	>24	>24	>24	>24	>24
TOTAL NITROGEN (PPM)	1292	897	1184	1147	1123	1290
TOTAL PHOSPHORUS (PPM)	566	215	312	883	426	425
CARBON (%)	2.0	1.4	1.6	1.6	1.8	1.9
MINERALIZABLE NITROGEN (PPM)	69	62	69	44	57	59
COARSE FRAGMENTS (%)	23.2	6.1	14.2	13.9	20.9	20.9
CORRECTED MINERALIZABLE N	53	58	59	37	45	47
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)	9179	5928	6739	7522	7828	10768
CROWN COMPETITION FACTOR	253	218	211	264	247	329
RELATIVE DENSITY INDEX	74.3	60.9	60.9	77.6	67.2	96.4
MEAN DIAMETER (IN)	12.7	13.3	12.6	10.8	13.1	12.1
SITE HEIGHT (FEET)	94.0	81.1	93.5	94.3	93.1	95.1
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	68.1	96.6	76.2	88.0	97.4	76.3
GRAND FIR	3.0	0.0	10.0	1.1	0.0	0.0
WESTERN REDCEDAR	0.0	0.0	0.0	2.3	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)	10263	7147	8187	8688	9123	12339
CROWN COMPETITION FACTOR	266	240	232	283	264	350
RELATIVE DENSITY INDEX	78.2	67.1	66.9	83.5	72.3	102.0
MEAN DIAMETER (IN)	13.2	14.2	13.4	11.4	13.7	12.8
SITE HEIGHT (FEET)	98.5	86.3	100.3	99.1	99.2	100.6
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)	0	0	0	0	0	60
TOPKILL VOLUME (CU. FT/A)	2.4	0.0	0.3	1.2	0.0	0.0

PLOT SUMMARY REPORT

INSTALLATION 289 GROUSE MTN
 REGION: NORTHEAST WASHINGTON OWNERSHIP: INLAND EMPIRE
 LEGAL DESCRIPTION: T40N R40E SECTION 8 MERIDIAN: WILLAMETTE

TREATMENT	PLOT NUMBER					
	1	2	3	4	5	6
	CONT	200 #	400 #	400 #	200 #	CONT
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	20	5	0	30	30	35
ASPECT	15	140	0	122	60	100
DOUGLAS-FIR SITE INDEX	85.5	86.0	70.0	88.0	83.0	82.3
VEGETATION SERIES	PSME	PSME	PSME	PSME	PSME	PSME
PARENT MATERIAL	GTILL	GTILL	GTILL	GTILL	GTILL	GTILL
ASH DEPTH (IN)	+	+	+	0	+	+
SOIL DEPTH (IN)	>24	>24	12-24	12-24	>24	>24
TOTAL NITROGEN (PPM)	1781	2754	2190	3103	1004	1077
TOTAL PHOSPHORUS (PPM)	1973	1403	1807	1516	1472	1434
CARBON (%)	2.5	3.1	2.8	2.5	1.3	2.2
MINERALIZABLE NITROGEN (PPM)	55	72	70	115	44	69
COARSE FRAGMENTS (%)	34.6	38.6	33.9	56.1	27.6	37.3
CORRECTED MINERALIZABLE N	36	44	46	51	32	43
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	166.5	163.6	210.1	168.2
LIVE TOTAL VOLUME (CU. FT/A)	4796	5491	3998	4265	5613	4303
CROWN COMPETITION FACTOR	216	258	200	192	246	199
RELATIVE DENSITY INDEX	60.4	71.7	55.3	54.2	69.1	56.8
MEAN DIAMETER (IN)	8.5	8.3	9.1	9.1	9.3	8.8
SITE HEIGHT (FEET)	78.8	74.5	71.9	78.5	81.3	77.5
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	100.0	99.0	100.0	100.0	97.0	100.0
GRAND FIR	0.0	1.0	0.0	0.0	2.1	0.0
WESTERN LARCH	0.0	0.0	0.0	0.0	1.0	0.0
2 YEARS AFTER TREATMENT (1984)						
LIVE TREES PER ACRE	450	550	370	350	440	390
LIVE BASAL AREA (SQ. FT/A)	187.3	221.5	183.2	178.4	224.2	178.1
LIVE TOTAL VOLUME (CU. FT/A)	227	272	216	204	259	205
CROWN COMPETITION FACTOR	63.4	75.5	59.4	57.4	72.1	58.9
RELATIVE DENSITY INDEX	8.7	8.6	9.5	9.7	9.7	9.1
MEAN DIAMETER (IN)	0	0	0	10	10	10
DEAD TREES PER ACRE	0.0	0.0	0.0	1.2	3.0	7.0
DEAD BASAL AREA (SQ. FT/A)						
4 YEARS AFTER TREATMENT (1986)						
LIVE TREES PER ACRE	450	540	370	350	440	340
LIVE BASAL AREA (SQ. FT/A)	196.2	229.4	193.3	191.0	235.5	181.7
LIVE TOTAL VOLUME (CU. FT/A)	5652	6481	4881	5369	6707	5037
CROWN COMPETITION FACTOR	236	279	226	214	269	203
RELATIVE DENSITY INDEX	65.6	77.2	61.8	60.4	74.8	57.8
MEAN DIAMETER (IN)	8.9	8.8	9.8	10.0	9.9	9.9
SITE HEIGHT (FEET)	82.7	79.9	77.6	85.7	87.9	83.9
DEAD TREES PER ACRE	0	10	0	10	10	60
DEAD BASAL AREA (SQ. FT/A)	0.0	2.7	0.0	1.2	3.0	15.6
DEAD TOTAL VOLUME (CU. FT/A)	0	65	0	18	57	339
TOPKILL VOLUME (CU. FT/A)	0.0	0.0	4.0	0.0	1.0	2.0

PLOT SUMMARY REPORT

INSTALLATION 290 GRASS MTN
 REGION: NORTHEAST WASHINGTON OWNERSHIP: INLAND EMPIRE
 LEGAL DESCRIPTION: T39N R40E SECTION 1 MERIDIAN: WILLAMETTE

	PLOT NUMBER					
	1	2	3	4	5	6
TREATMENT	400 #	CONT	200 #	CONT	200 #	400 #
SITE AND SOIL CHARACTERISTICS:						
SLOPE (%)	40	15	15	15	30	15
ASPECT	270	242	265	295	206	190
DOUGLAS-FIR SITE INDEX	72.7	59.1	60.0	57.9	56.8	62.2
VEGETATION SERIES	ABGR	ABGR	ABGR	PSME	PSME	PSME
PARENT MATERIAL	BSALT	BSALT	BSALT	BSALT	BSALT	BSALT
ASH DEPTH (IN)	<3	<3	<3	<3	<3	<3
SCIL DEPTH (IN)	12-24	12-24	12-24	12-24	12-24	>24
TOTAL NITROGEN (PPM)	2310	1523	1774	1418	1418	1068
TOTAL PHOSPHORUS (PPM)	2035	1459	1386	1438	729	1166
CARBON (%)	2.5	2.5	2.8	2.5	2.3	2.3
MINERALIZABLE NITROGEN (PPM)	97	70	75	66	88	60
COARSE FRAGMENTS (%)	34.2	38.3	32.9	27.4	34.8	30.6
CORRECTED MINERALIZABLE N	64	43	50	48	57	42
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
SITE HEIGHT (FEET)	79.8	79.3	84.5	80.1	79.9	71.2
SPECIES COMPOSITION (% OF BA)						
DOUGLAS-FIR	89.6	100.0	100.0	96.3	100.0	91.8
GRAND FIR	0.0	0.0	0.0	0.0	0.0	3.4
WESTERN LARCH	10.4	0.0	0.0	3.7	0.0	0.0
LODGEPOLE PINE	0.0	0.0	0.0	0.0	0.0	1.9
PONDEROSA PINE	0.0	0.0	0.0	0.0	0.0	2.9
2 YEARS AFTER TREATMENT (1984)						
LIVE TREES PER ACRE	420	420	520	510	440	600
LIVE BASAL AREA (SQ. FT/A)	223.6	204.0	273.3	192.2	197.6	212.9
CROWN COMPETITION FACTOR	247	245	316	234	238	263
RELATIVE DENSITY INDEX	71.1	66.4	87.2	66.6	65.6	74.9
MEAN DIAMETER (IN)	9.9	9.4	9.8	8.3	9.1	8.1
DEAD TREES PER ACRE	0	0	0	0	0	10
DEAD BASAL AREA (SQ. FT/A)	0.0	0.0	0.0	0.0	0.0	1.5
4 YEARS AFTER TREATMENT (1986)						
LIVE TREES PER ACRE	390	340	510	460	380	440
LIVE BASAL AREA (SQ. FT/A)	221.5	178.4	281.2	188.6	189.6	172.0
LIVE TOTAL VOLUME (CU. FT/A)	6310	5257	8210	5318	4787	4610
CROWN COMPETITION FACTOR	240	212	320	226	222	208
RELATIVE DENSITY INDEX	69.3	57.0	88.7	64.1	61.3	59.1
MEAN DIAMETER (IN)	10.2	9.8	10.0	8.7	9.6	8.5
SITE HEIGHT (FEET)	82.9	82.7	87.5	83.9	83.1	75.1
DEAD TREES PER ACRE	30	30	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)	334	960	107	271	369	1245
TOPKILL VOLUME (CU. FT/A)	0.9	2.2	1.2	0.0	2.2	0.0

SECTION V

Four Year Growth Response Summaries for all Douglas-fir Installations

INSTALLATION 103 GOLD CREEK
 REGION: CENTRAL IDAHO OWNERSHIP: BOISE CASCADE
 LEGAL DESCRIPTION: T16N R4E SECTION 35 MERIDIAN: BOISE

SITE AND SOIL CHARACTERISTICS:

ELEVATION 5000 FEET
 SLOPE 22 PERCENT
 ASPECT 229 DEGREES
 DOUGLAS-FIR SITE INDEX 54.9 FEET AT 50 YEARS
 VEGETATION SERIES GRAND FIR
 PARENT MATERIAL GRANITE
 ASH DEPTH NONE
 SOIL DEPTH DEEP (> 24 IN)
 TOTAL NITROGEN . PPM
 TOTAL PHOSPHORUS . PPM
 CARBON . PERCENT
 MINERALIZABLE NITROGEN . PPM
 COARSE FRAGMENTS . PERCENT
 CORRECTED MINERALIZABLE N . PPM
 TOTAL SOIL MOISTURE 5.9 INCHES

STAND CHARACTERISTICS:

INITIAL AGE 61 YEARS
 INITIAL TREES PER ACRE 162 TREES/ACRE
 INITIAL BASAL AREA 93.6 SQ.FEET/ACRE
 INITIAL TOTAL VOLUME 2020 CU.FEET/ACRE
 INITIAL CCF 103.7
 RELATIVE DENSITY INDEX 29.1
 MEAN DIAMETER 10.3 INCHES
 SITE HEIGHT (40 TPA) 61.9 FEET
 SPECIES COMPOSITION (% OF TOTAL BA)
 DOUGLAS-FIR 87.4 PERCENT
 GRAND FIR 2.5 PERCENT
 LODGEPOLE PINE 0.8 PERCENT
 PONDEROSA PINE 9.3 PERCENT

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CCNTROL
FOUR-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	15.2		
	200 # N	17.9	2.7	17.8
	400 # N	13.5	-1.7	-11.2
FOUR-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	15.6		
	200 # N	17.8	2.2	14.1
	400 # N	16.6	1.0	6.4
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	3.4		
	200 # N	3.5	0.1	2.9
	400 # N	2.8	-0.6	-17.6
FOUR-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	434		
	200 # N	528	94	21.7
	400 # N	403	-31	-7.1
FOUR-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CCNTROL	447		
	200 # N	526	79	17.7
	400 # N	464	17	3.8

INSTALLATION 104 DAVIS CREEK
 REGION: NORTHEAST OREGON OWNERSHIP: BOISE CASCADE
 LEGAL DESCRIPTION: T1N R45E SECTION 4 MERIDIAN: WILLAMETTE

SITE AND SOIL CHARACTERISTICS:

ELEVATION	4400 FEET
SLOPE	24 PERCENT
ASPECT	11 DEGREES
DOUGLAS-FIR SITE INDEX	69.9 FEET AT 50 YEARS
VEGETATION SERIES	DOUGLAS-FIR
PARENT MATERIAL	BASALT
ASH DEPTH	NONE
SOIL DEPTH	DEEP (> 24 IN)
TOTAL NITROGEN	. PPM
TOTAL PHOSPHORUS	. PPM
CARBON	. PERCENT
MINERALIZABLE NITROGEN	. PPM
COARSE FRAGMENTS	. PERCENT
CORRECTED MINERALIZABLE N	. PPM
TOTAL SOIL MOISTURE	8.3 INCHES

STAND CHARACTERISTICS:

INITIAL AGE	42 YEARS
INITIAL TREES PER ACRE	174 TREES/ACRE
INITIAL BASAL AREA	80.4 SQ. FEET/ACRE
INITIAL TOTAL VOLUME	1581 CU. FEET/ACRE
INITIAL CCF	87.6
RELATIVE DENSITY INDEX	26.4
MEAN DIAMETER	9.3 INCHES
SITE HEIGHT (40 TPA)	54.6 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	67.8 PERCENT
WESTERN LARCH	23.0 PERCENT
PONDEROSA PINE	9.3 PERCENT

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
FOUR-YEAR NET BASAL AREA (SQ. FEET/ACRE)	CONTROL	17.0		
	200 # N	17.5	0.5	2.9
	400 # N	19.9	2.9	17.1
FOUR-YEAR GROSS BASAL AREA (SQ. FEET/ACRE)	CONTROL	17.0		
	200 # N	17.5	0.5	2.9
	400 # N	19.7	2.7	15.9
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	5.0		
	200 # N	5.1	0.1	2.0
	400 # N	4.9	-0.1	-2.0
FOUR-YEAR NET TOTAL VOLUME (CU. FEET/ACRE)	CONTROL	497		
	200 # N	507	10	2.0
	400 # N	549	52	10.5
FOUR-YEAR GROSS TOTAL VOLUME (CU. FEET/ACRE)	CONTROL	497		
	200 # N	505	8	1.6
	400 # N	546	49	9.9

INSTALLATION 105 TEANAWAY RIVER
 REGION: CENTRAL WASHINGTON OWNERSHIP: BOISE CASCADE
 LEGAL DESCRIPTION: T21N R15E SECTION 21 MERIDIAN: WILLAMETTE

SITE AND SOIL CHARACTERISTICS:

ELEVATION	2800 FEET
SLOPE	13 PERCENT
ASPECT	201 DEGREES
DOUGLAS-FIR SITE INDEX	67.7 FEET AT 50 YEARS
VEGETATION SERIES	GRAND FIR
PARENT MATERIAL	ALLOUVIUM
ASH DEPTH	SHALLOW (< 3 IN)
SOIL DEPTH	DEEP (> 24 IN)
TOTAL NITROGEN	. PPM
TOTAL PHOSPHORUS	. PPM
CARBON	. PERCENT
MINERALIZABLE NITROGEN	. PPM
COARSE FRAGMENTS	. PERCENT
CORRECTED MINERALIZABLE N	. PPM
TOTAL SOIL MOISTURE	12.1 INCHES

STAND CHARACTERISTICS:

INITIAL AGE	83 YEARS
INITIAL TREES PER ACRE	182 TREES/ACRE
INITIAL BASAL AREA	151.6 SQ. FEET/ACRE
INITIAL TOTAL VOLUME	4731 CU. FEET/ACRE
INITIAL CCF	155.6
RELATIVE DENSITY INDEX	42.9
MEAN DIAMETER	12.5 INCHES
SITE HEIGHT (40 TPA)	90.4 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	81.8 PERCENT
GRAND FIR	2.4 PERCENT
WESTERN LARCH	8.5 PERCENT
LODGEPOLE PINE	0.6 PERCENT
PONDEROSA PINE	6.7 PERCENT

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
FOUR-YEAR NET BASAL AREA (SQ. FEET/ACRE)	CONTROL	15.4		
	200 # N	19.9	4.5	29.2
	400 # N	17.3	1.9	12.3
FOUR-YEAR GROSS BASAL AREA (SQ. FEET/ACRE)	CONTROL	15.1		
	200 # N	19.8	4.7	31.1
	400 # N	23.5	8.4	55.6
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	2.0		
	200 # N	3.4	1.4	70.0
	400 # N	3.9	1.9	95.0
FOUR-YEAR NET TOTAL VOLUME (CU. FEET/ACRE)	CONTROL	571		
	200 # N	797	226	39.6
	400 # N	755	184	32.2
FOUR-YEAR GROSS TOTAL VOLUME (CU. FEET/ACRE)	CONTROL	560		
	200 # N	794	234	41.8
	400 # N	950	390	69.6

INSTALLATION 106 DEER CREEK
 REGION: NORTHEAST WASHINGTON OWNERSHIP: BOISE CASCADE
 LEGAL DESCRIPTION: T30N R39E SECTION 7 MERIDIAN: WILLAMETTE

SITE AND SOIL CHARACTERISTICS:

ELEVATION	2700 FEET
SLOPE	46 PERCENT
ASPECT	338 DEGREES
DOUGLAS-FIR SITE INDEX	80.4 FEET AT 50 YEARS
VEGETATION SERIES	WESTERN REDCEDAR
PARENT MATERIAL	GLACIAL TILL
ASH DEPTH	SHALLOW (< 3 IN)
SOIL DEPTH	DEEP (> 24 IN)
TOTAL NITROGEN	. PPM
TOTAL PHOSPHORUS	. PPM
CARBON	. PERCENT
MINERALIZABLE NITROGEN	. PPM
COARSE FRAGMENTS	. PERCENT
CORRECTED MINERALIZABLE N	. PPM
TOTAL SOIL MOISTURE	5.9 INCHES

STAND CHARACTERISTICS:

INITIAL AGE	41 YEARS
INITIAL TREES PER ACRE	240 TREES/ACRE
INITIAL BASAL AREA	90.0 SQ.FEET/ACRE
INITIAL TOTAL VOLUME	2065 CU.FEET/ACRE
INITIAL CCF	108.5
RELATIVE DENSITY INDEX	31.2
MEAN DIAMETER	8.4 INCHES
SITE HEIGHT (40 TPA)	65.5 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	93.5 PERCENT
GRAND FIR	0.3 PERCENT
WESTERN REDCEDAR	0.3 PERCENT
WESTERN LARCH	3.0 PERCENT
PONDEROSA PINE	2.9 PERCENT

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
FOUR-YEAR NET BASAL AREA (SQ. FEET/ACRE)	CONTROL 200 # N 400 # N	18.4 16.0 25.1	-2.4 6.7	-13.0 36.4
FOUR-YEAR GROSS BASAL AREA (SQ. FEET/ACRE)	CONTROL 200 # N 400 # N	19.7 22.9 25.2	3.2 5.5	16.2 27.9
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL 200 # N 400 # N	5.2 5.7 6.1	0.5 0.9	9.6 17.3
FOUR-YEAR NET TOTAL VOLUME (CU. FEET/ACRE)	CONTROL 200 # N 400 # N	614 597 767	-17 153	-2.8 24.9
FOUR-YEAR GROSS TOTAL VOLUME (CU. FEET/ACRE)	CONTROL 200 # N 400 # N	636 723 769	87 133	13.7 20.9

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

SITE AND SOIL CHARACTERISTICS:

ELEVATION	5500 FEET
SLOPE	18 PERCENT
ASPECT	358 DEGREES
DOUGLAS-FIR SITE INDEX	62.6 FEET AT 50 YEARS
VEGETATION SERIES	GRAND FIR
PARENT MATERIAL	GRANITE
ASH DEPTH	NONE
SOIL DEPTH	DEEP (> 24 IN)
TOTAL NITROGEN	1627 PPM
TOTAL PHOSPHORUS	694 PPM
CARBON	1.35 PERCENT
MINERALIZABLE NITROGEN	23.2 PPM
COARSE FRAGMENTS	17.3 PERCENT
CORRECTED MINERALIZABLE N	19.3 PPM
TOTAL SOIL MOISTURE	4.5 INCHES

STAND CHARACTERISTICS:

INITIAL AGE	59 YEARS
INITIAL TREES PER ACRE	228 TREES/ACRE
INITIAL BASAL AREA	113.7 SQ.FEET/ACRE
INITIAL TOTAL VOLUME	2544 CU.FEET/ACRE
INITIAL CCF	128.9
RELATIVE DENSITY INDEX	36.7
MEAN DIAMETER	9.6 INCHES
SITE HEIGHT (40 TPA)	60.8 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	82.1 PERCENT
GRAND FIR	2.0 PERCENT
WESTERN LARCH	1.5 PERCENT
LODGEPOLE PINE	0.5 PERCENT
PONDEROSA PINE	14.0 PERCENT

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
FOUR-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	15.3		
	200 # N	16.0	0.7	4.6
	400 # N	21.7	6.4	41.3
FOUR-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	15.0		
	200 # N	15.9	0.9	6.0
	400 # N	21.8	6.8	45.3
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	3.7		
	200 # N	4.5	0.8	21.6
	400 # N	4.2	0.5	13.5
FOUR-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	480		
	200 # N	572	92	19.2
	400 # N	683	203	42.3
FOUR-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	468		
	200 # N	571	103	22.0
	400 # N	684	216	46.2
			FIRST TWO YEARS	
			RESPONSE	
	TRT	INC	DIFF	%
TWO-YEAR PERIODIC NET BASAL AREA (SQ.FEET/ACRE)	CON	7.7		
	200	7.7	0.0	0.0
	400	11.1	3.4	44.2
			SECOND TWO YEARS	
			RESPONSE	
			INC	DIFF
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ.FEET/ACRE)	CON	7.5		
	200	7.7	0.2	2.7
	400	11.0	3.5	46.7
			INC	DIFF
			7.6	
			8.3	0.7
			10.8	3.2
				%
				7.8
				39.0
				9.2
				42.1

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

SITE AND SOIL CHARACTERISTICS:

ELEVATION 5500 FEET
 SLOPE 29 PERCENT
 ASPECT 314 DEGREES
 DOUGLAS-FIR SITE INDEX 55.9 FEET AT 50 YEARS
 VEGETATION SERIES DOUGLAS-FIR
 PARENT MATERIAL GRANITE
 ASH DEPTH NONE
 SOIL DEPTH DEEP (> 24 IN)
 TOTAL NITROGEN 1427 PPM
 TOTAL PHOSPHORUS 356 PPM
 CARBON 1.17 PERCENT
 MINERALIZABLE NITROGEN 20.3 PPM
 COARSE FRAGMENTS 31.1 PERCENT
 CORRECTED MINERALIZABLE N 14.2 PPM
 TOTAL SOIL MOISTURE 3.0 INCHES

STAND CHARACTERISTICS:

INITIAL AGE 58 YEARS
 INITIAL TREES PER ACRE 182 TREES/ACRE
 INITIAL BASAL AREA 66.9 SQ.FEET/ACRE
 INITIAL TOTAL VOLUME 1285 CU.FEET/ACRE
 INITIAL CCF 80.5
 RELATIVE DENSITY INDEX 23.3
 MEAN DIAMETER 8.3 INCHES
 SITE HEIGHT (40 TPA) 51.8 FEET
 SPECIES COMPOSITION (% OF TOTAL BA)
 DOUGLAS-FIR 85.0 PERCENT
 LODGEPOLE PINE 4.5 PERCENT
 PONDEROSA PINE 10.5 PERCENT

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
FOUR-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	13.6		
	200 # N	16.0	2.4	17.6
	400 # N	18.8	5.2	38.2
FOUR-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	13.6		
	200 # N	16.0	2.4	17.6
	400 # N	18.6	5.0	36.8
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	3.1		
	200 # N	3.3	0.2	6.5
	400 # N	4.6	1.5	48.4
FOUR-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	338		
	200 # N	390	52	15.4
	400 # N	475	137	40.5
FOUR-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	337		
	200 # N	387	50	14.8
	400 # N	472	135	40.1
			FIRST TWO YEARS	
			RESPONSE	
	TRT	INC	DIFF	%
TWO-YEAR PERIODIC NET BASAL AREA (SQ.FEET/ACRE)	CON	6.4		
	200	7.8	1.4	21.9
	400	9.2	2.8	43.8
			SECOND TWO YEARS	
			RESPONSE	
	INC	DIFF	%	
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ.FEET/ACRE)	CON	6.4		
	200	7.8	1.4	21.9
	400	9.2	2.8	43.8
			7.2	
			8.2	1.0
			9.6	2.4
			7.2	
			8.1	0.9
			9.4	2.2
				12.5
				30.6

INSTALLATION 203 LAFFINWELL CREEK #2
 REGION: CENTRAL IDAHO OWNERSHIP: BOISE CASCADE
 LEGAL DESCRIPTION: T16N R4E SECTION 29 MERIDIAN: BOISE

SITE AND SOIL CHARACTERISTICS:

ELEVATION	5500 FEET
SLOPE	24 PERCENT
ASPECT	52 DEGREES
DOUGLAS-FIR SITE INDEX	57.6 FEET AT 50 YEARS
VEGETATION SERIES	GRAND FIR
PARENT MATERIAL	GRANITE
ASH DEPTH	NONE
SOIL DEPTH	DEEP (> 24 IN)
TOTAL NITROGEN	1260 PPM
TOTAL PHOSPHORUS	822 PPM
CARBON	1.29 PERCENT
MINERALIZABLE NITROGEN	19.2 PPM
COARSE FRAGMENTS	11.2 PERCENT
CORRECTED MINERALIZABLE N	17.2 PPM
TOTAL SOIL MOISTURE	8.1 INCHES

STAND CHARACTERISTICS:

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

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE				
			DIFFERENCE	% OF CONTROL			
FOUR-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	11.8					
	200 # N	15.9	4.1	34.7			
	400 # N	13.9	2.1	17.8			
FOUR-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	12.1					
	200 # N	15.9	3.8	31.4			
	400 # N	14.1	2.0	16.5			
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	4.0					
	200 # N	4.0	0.0	0.0			
	400 # N	2.8	-1.2	-30.0			
FOUR-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	471					
	200 # N	521	50	10.6			
	400 # N	462	-9	-1.9			
FOUR-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	471					
	200 # N	521	50	10.6			
	400 # N	467	-4	-0.8			
			FIRST TWO YEARS		SECOND TWO YEARS		
			RESPONSE				
	TRT	INC	DIFF	%	INC	DIFF	%
TWO-YEAR PERIODIC NET BASAL AREA (SQ.FEET/ACRE)	CON	5.8			6.0		
	200	8.4	2.6	44.8	7.5	1.5	25.0
	400	7.7	1.9	32.8	6.2	0.2	3.3
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ.FEET/ACRE)	CON	5.7			6.3		
	200	8.4	2.7	47.4	7.6	1.3	20.6
	400	7.7	2.0	35.1	6.3	0.0	0.0

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

SITE AND SOIL CHARACTERISTICS:

ELEVATION 3300 FEET
 SLOPE 33 PERCENT
 ASPECT 207 DEGREES
 DOUGLAS-FIR SITE INDEX 80.4 FEET AT 50 YEARS
 VEGETATION SERIES GRAND FIR
 PARENT MATERIAL ASH OVER METASEDIMENT
 ASH DEPTH MEDIUM (3 TO 12 IN)
 SOIL DEPTH DEEP (> 24 IN)
 TOTAL NITROGEN 2213 PPM
 TOTAL PHOSPHORUS 686 PPM
 CARBON 1.63 PERCENT
 MINERALIZABLE NITROGEN 30.0 PPM
 COARSE FRAGMENTS 8.2 PERCENT
 CORRECTED MINERALIZABLE N 27.7 PPM
 TOTAL SOIL MOISTURE 22.4 INCHES

STAND CHARACTERISTICS:

INITIAL AGE 41 YEARS
 INITIAL TREES PER ACRE 238 TREES/ACRE
 INITIAL BASAL AREA 104.3 SQ.FEET/ACRE
 INITIAL TOTAL VOLUME 2502 CU.FEET/ACRE
 INITIAL CCF 131.7
 RELATIVE DENSITY INDEX 34.8
 MEAN DIAMETER 8.9 INCHES
 SITE HEIGHT (40 TPA) 67.3 FEET
 SPECIES COMPOSITION (% OF TOTAL BA)
 DOUGLAS-FIR 86.9 PERCENT
 GRAND FIR 13.1 PERCENT

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE					
			DIFFERENCE	% OF CONTROL				
FOUR-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	14.7						
	200 # N	21.3	7.1	48.3				
	400 # N	28.5	13.8	93.9				
FOUR-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	21.6						
	200 # N	27.8	6.2	28.7				
	400 # N	31.1	9.5	44.0				
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	5.6						
	200 # N	6.9	1.3	23.2				
	400 # N	7.3	1.7	30.4				
FOUR-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	529						
	200 # N	855	326	61.6				
	400 # N	1024	495	93.6				
FOUR-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	700						
	200 # N	976	276	39.4				
	400 # N	1079	379	54.1				
	<u>FIRST TWO YEARS</u>				<u>SECOND TWO YEARS</u>			
		<u>RESPONSE</u>				<u>RESPONSE</u>		
	<u>TRT</u>	<u>INC</u>	<u>DIFF</u>	<u>%</u>	<u>INC</u>	<u>DIFF</u>	<u>%</u>	
TWO-YEAR PERIODIC NET BASAL AREA (SQ.FEET/ACRE)	CON	11.2			3.5			
	200	14.1	2.9	25.9	7.6	4.1	117.1	
	400	16.3	5.1	45.5	12.3	8.8	251.4	
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ.FEET/ACRE)	CON	11.2			10.4			
	200	15.0	3.8	33.9	12.8	2.4	23.1	
	400	16.2	5.0	44.6	14.9	4.5	43.3	

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

SITE AND SOIL CHARACTERISTICS:

ELEVATION	3300 FEET
SLOPE	13 PERCENT
ASPECT	120 DEGREES
DOUGLAS-FIR SITE INDEX	86.4 FEET AT 50 YEARS
VEGETATION SERIES	WESTERN REDCEDAR
PARENT MATERIAL	ASH OVER METASEDIMENT
ASH DEPTH	DEEP { > 12 IN)
SOIL DEPTH	DEEP { > 24 IN)
TOTAL NITROGEN	3166 PPM
TOTAL PHOSPHORUS	804 PPM
CARBON	1.87 PERCENT
MINERALIZABLE NITROGEN	33.8 PPM
COARSE FRAGMENTS	6.3 PERCENT
CORRECTED MINERALIZABLE N	31.7 PPM
TOTAL SOIL MOISTURE	20.8 INCHES

STAND CHARACTERISTICS:

INITIAL AGE	41 YEARS
INITIAL TREES PER ACRE	230 TREES/ACRE
INITIAL BASAL AREA	111.7 SQ.FEET/ACRE
INITIAL TOTAL VOLUME	2854 CU.FEET/ACRE
INITIAL CCF	135.6
RELATIVE DENSITY INDEX	36.3
MEAN DIAMETER	9.4 INCHES
SITE HEIGHT (40 TPA)	69.0 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	77.2 PERCENT
GRAND FIR	13.6 PERCENT
WESTERN REDCEDAR	2.1 PERCENT
WESTERN LARCH	3.6 PERCENT
LODGEPOLE PINE	2.5 PERCENT
WHITE PINE	0.9 PERCENT

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE		
			DIFFERENCE	% OF CONTROL	
FOUR-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	18.8			
	200 # N	27.5	8.7	46.3	
	400 # N	27.8	9.0	47.9	
FOUR-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	19.9			
	200 # N	27.5	7.6	38.2	
	400 # N	29.9	10.0	50.3	
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	6.3			
	200 # N	7.9	1.6	25.4	
	400 # N	7.6	1.3	20.6	
FOUR-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	745			
	200 # N	1110	365	49.0	
	400 # N	1060	315	42.3	
FOUR-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	770			
	200 # N	1110	340	44.2	
	400 # N	1113	343	44.5	
			FIRST TWO YEARS		
			RESPONSE		
	TRT	INC	DIFF	%	
TWO-YEAR PERIODIC NET BASAL AREA (SQ.FEET/ACRE)	CON	10.4			
	200	15.0	4.6	44.2	
	400	13.5	3.1	29.8	
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ.FEET/ACRE)	CON	10.3			
	200	14.9	4.6	44.7	
	400	15.7	5.4	52.4	
			SECOND TWO YEARS		
			RESPONSE		
			INC	DIFF	%
TWO-YEAR PERIODIC NET BASAL AREA (SQ.FEET/ACRE)	CON	10.4	8.4		
	200	15.0	12.6	4.2	50.0
	400	13.5	14.2	5.8	69.0
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ.FEET/ACRE)	CON	10.3	9.5		
	200	14.9	12.6	3.1	32.6
	400	15.7	14.2	4.7	49.5

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

SITE AND SOIL CHARACTERISTICS:

ELEVATION	3200 FEET
SLOPE	4 PERCENT
ASPECT	22 DEGREES
DOUGLAS-FIR SITE INDEX	81.1 FEET AT 50 YEARS
VEGETATION SERIES	WESTERN REDCEDAR
PARENT MATERIAL	ASH AND/OR LOESS
ASH DEPTH	DEEP (> 12 IN)
SOIL DEPTH	DEEP (> 24 IN)
TOTAL NITROGEN	2603 PPM
TOTAL PHOSPHORUS	659 PPM
CARBON	1.17 PERCENT
MINERALIZABLE NITROGEN	27.5 PPM
COARSE FRAGMENTS	15.0 PERCENT
CORRECTED MINERALIZABLE N	23.2 PPM
TOTAL SOIL MOISTURE	15.9 INCHES

STAND CHARACTERISTICS:

INITIAL AGE	46 YEARS
INITIAL TREES PER ACRE	260 TREES/ACRE
INITIAL BASAL AREA	152.4 SQ.FEET/ACRE
INITIAL TOTAL VOLUME	4009 CU.FEET/ACRE
INITIAL CCF	172.2
RELATIVE DENSITY INDEX	47.3
MEAN DIAMETER	10.4 INCHES
SITE HEIGHT (40 TPA)	75.9 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	78.2 PERCENT
GRAND FIR	7.5 PERCENT
WESTERN REDCEDAR	4.5 PERCENT
WESTERN LARCH	8.4 PERCENT
PONDEROSA PINE	1.5 PERCENT

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE				
			DIFFERENCE	% OF CONTROL			
FOUR-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL 200 # N 400 # N	18.2 25.2 25.0	7.0 6.8	38.5 37.4			
FOUR-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL 200 # N 400 # N	20.0 25.2 25.4	5.2 5.4	26.0 27.0			
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL 200 # N 400 # N	6.7 5.9 6.5	-0.8 -0.2	-11.9 -3.0			
FOUR-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL 200 # N 400 # N	864 1053 1093	189 229	21.9 26.5			
FOUR-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL 200 # N 400 # N	915 1053 1095	138 180	15.1 19.7			
		FIRST TWO YEARS	SECOND TWO YEARS				
		RESPONSE	RESPONSE				
	TRT	INC	DIFF	%	INC	DIFF	%
TWO-YEAR PERIODIC NET BASAL AREA (SQ.FEET/ACRE)	CON 200 400	10.7 13.8 14.1	3.1 3.4	29.0 31.8	7.5 11.4 11.0	3.9 3.5	52.0 46.7
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ.FEET/ACRE)	CON 200 400	10.9 13.8 13.8	2.9 2.9	26.6 26.6	9.1 11.4 11.5	2.3 2.4	25.3 26.4

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

SITE AND SOIL CHARACTERISTICS:

ELEVATION 3600 FEET SLOPE 18 PERCENT ASPECT 318 DEGREES DOUGLAS-FIR SITE INDEX 71.5 FEET AT 50 YEARS VEGETATION SERIES GRAND FIR PARENT MATERIAL BASALT ASH DEPTH TRACE SOIL DEPTH MODERATE (12 TO 24 IN) TOTAL NITROGEN 3211 PPM TOTAL PHOSPHORUS 731 PPM CARBON 2.06 PERCENT MINERALIZABLE NITROGEN 40.2 PPM COARSE FRAGMENTS 17.1 PERCENT CORRECTED MINERALIZABLE N 32.7 PPM TOTAL SOIL MOISTURE 3.1 INCHES

STAND CHARACTERISTICS:

INITIAL AGE 55 YEARS INITIAL TREES PER ACRE 277 TREES/ACRE INITIAL BASAL AREA 156.8 SQ.FEET/ACRE INITIAL TOTAL VOLUME 3988 CU.FEET/ACRE INITIAL CCF 167.5 RELATIVE DENSITY INDEX 49.1 MEAN DIAMETER 10.2 INCHES SITE HEIGHT (40 TPA) 70.0 FEET SPECIES COMPOSITION (% OF TOTAL BA) DOUGLAS-FIR 68.0 PERCENT GRAND FIR 2.1 PERCENT WESTERN LARCH 3.7 PERCENT PONDEROSA PINE 26.2 PERCENT

GROWTH:

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

Table with 5 main columns: Treatment, Increment, Difference, % of Control, and Response. It shows growth data for various treatments (Control, 200 # N, 400 # N) across different metrics like Basal Area, Average Height, and Total Volume, comparing responses over the first and second two years.

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

SITE AND SOIL CHARACTERISTICS:

ELEVATION	2800 FEET
SLOPE	15 PERCENT
ASPECT	198 DEGREES
DOUGLAS-FIR SITE INDEX	67.8 FEET AT 50 YEARS
VEGETATION SERIES	GRAND FIR
PARENT MATERIAL	ASH AND/OR LOESS
ASH DEPTH	TRACE
SOIL DEPTH	MODERATE (12 TO 24 IN)
TOTAL NITROGEN	1617 PPM
TOTAL PHOSPHORUS	384 PPM
CARBON	1.87 PERCENT
MINERALIZABLE NITROGEN	57.8 PPM
COARSE FRAGMENTS	12.6 PERCENT
CORRECTED MINERALIZABLE N	49.5 PPM
TOTAL SOIL MOISTURE	7.2 INCHES

STAND CHARACTERISTICS:

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

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE		
			DIFFERENCE	% OF CONTROL	
FOUR-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	12.5			
	200 # N	15.3	2.8	22.4	
	400 # N	10.6	-1.9	-15.2	
FOUR-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	13.5			
	200 # N	15.0	1.5	11.1	
	400 # N	12.6	-0.9	-6.7	
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	2.5			
	200 # N	2.9	0.4	16.0	
	400 # N	2.5	0.0	0.0	
FOUR-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	583			
	200 # N	727	144	24.7	
	400 # N	542	-41	-7.0	
FOUR-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	620			
	200 # N	713	93	15.0	
	400 # N	597	-23	-3.7	
	FIRST TWO YEARS		SECOND TWO YEARS		
	RESPONSE				
	TRT	INC	DIFF	%	
TWO-YEAR PERIODIC NET BASAL AREA (SQ.FEET/ACRE)	CON	6.5			
	200	8.2	1.7	26.2	
	400	6.8	0.3	4.6	
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ.FEET/ACRE)	CON	7.3			
	200	7.9	0.6	8.2	
	400	6.8	-0.5	-6.8	
			INC	DIFF	%
			6.0		
			7.2	1.2	20.0
			3.8	-2.2	-36.7
			6.3		
			7.1	0.8	12.7
			5.8	-0.5	-7.9

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

SITE AND SOIL CHARACTERISTICS:

ELEVATION	2800 FEET
SLOPE	28 PERCENT
ASPECT	61 DEGREES
DOUGLAS-FIR SITE INDEX	69.8 FEET AT 50 YEARS
VEGETATION SERIES	DOUGLAS-FIR
PARENT MATERIAL	GLACIAL TILL
ASH DEPTH	SHALLOW (< 3 IN)
SOIL DEPTH	DEEP (> 24 IN)
TOTAL NITROGEN	1811 PPM
TOTAL PHOSPHORUS	1954 PPM
CARBON	1.40 PERCENT
MINERALIZABLE NITROGEN	30.0 PPM
COARSE FRAGMENTS	18.0 PERCENT
CORRECTED MINERALIZABLE N	24.7 PPM
TOTAL SOIL MOISTURE	7.7 INCHES

STAND CHARACTERISTICS:

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

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE		
			DIFFERENCE	% OF CONTROL	
FOUR-YEAR NET BASAL AREA (SQ. FEET/ACRE)	CONTROL 200 # N 400 # N	10.5 17.7 17.9			
			7.2 7.4	68.6 70.5	
FOUR-YEAR GROSS BASAL AREA (SQ. FEET/ACRE)	CONTROL 200 # N 400 # N	13.7 17.6 17.9			
			3.9 4.2	23.5 30.7	
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL 200 # N 400 # N	4.5 5.5 5.3			
			1.0 0.8	22.2 17.8	
FOUR-YEAR NET TOTAL VOLUME (CU. FEET/ACRE)	CONTROL 200 # N 400 # N	528 847 804			
			319 276	60.4 52.3	
FOUR-YEAR GROSS TOTAL VOLUME (CU. FEET/ACRE)	CONTROL 200 # N 400 # N	625 842 805			
			217 180	34.7 28.8	
			RESPONSE		
		FIRST TWO YEARS	SECOND TWO YEARS		
		RESPONSE		RESPONSE	
		TBT	INC	DIFF	%
TWO-YEAR PERIODIC NET BASAL AREA (SQ. FEET/ACRE)	CON 200 400	6.3 8.9 8.1			
			2.6 1.8	41.3 28.6	
					4.2 8.8 9.7
					109.5 131.0
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ. FEET/ACRE)	CON 200 400	6.4 8.8 8.1			
			2.4 1.7	37.5 26.6	
					7.4 8.8 9.8
					18.9 32.4

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

SITE AND SOIL CHARACTERISTICS:

ELEVATION	2600 FEET
SLOPE	28 PERCENT
ASPECT	307 DEGREES
DOUGLAS-FIR SITE INDEX	73.7 FEET AT 50 YEARS
VEGETATION SERIES	DOUGLAS-FIR
PARENT MATERIAL	GRANITE
ASH DEPTH	SHALLOW (< 3 IN)
SOIL DEPTH	MODERATE (12 TO 24 IN)
TOTAL NITROGEN	3894 PPM
TOTAL PHOSPHORUS	2101 PPM
CARBON	2.65 PERCENT
MINERALIZABLE NITROGEN	34.0 PPM
COARSE FRAGMENTS	22.5 PERCENT
CORRECTED MINERALIZABLE N	26.2 PPM
TOTAL SOIL MOISTURE	6.5 INCHES

STAND CHARACTERISTICS:

INITIAL AGE	54 YEARS
INITIAL TREES PER ACRE	272 TREES/ACRE
INITIAL BASAL AREA	143.3 SQ.FEET/ACRE
INITIAL TOTAL VOLUME	3468 CU.FEET/ACRE
INITIAL CCF	158.4
RELATIVE DENSITY INDEX	45.7
MEAN DIAMETER	9.9 INCHES
SITE HEIGHT (40 TPA)	70.0 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	84.1 PERCENT
WESTERN LARCH	1.3 PERCENT
LODGEPOLE PINE	3.1 PERCENT
PONDEROSA PINE	11.5 PERCENT

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE				
			DIFFERENCE	% OF CONTROL			
FOUR-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL 200 # N 400 # N	13.0 9.1 1.5	-3.9 -11.5	-30.0 -88.5			
FOUR-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL 200 # N 400 # N	13.7 16.7 15.3	3.0 1.6	21.9 11.7			
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL 200 # N 400 # N	4.6 4.8 4.7	0.2 0.1	4.3 2.2			
FOUR-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL 200 # N 400 # N	578 503 296	-75 -282	-13.0 -48.8			
FOUR-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL 200 # N 400 # N	590 662 641	72 51	12.2 8.6			
		FIRST TWO YEARS	SECOND TWO YEARS				
		RESPONSE	RESPONSE				
		TRT INC DIFF %	INC	DIFF %			
TWO-YEAR PERIODIC NET BASAL AREA (SQ.FEET/ACRE)	CON 200 400	5.4 8.6 6.8	3.2 1.4	59.3 25.9	7.6 0.6 -5.3	-7.0 -12.9	-92.1 -169.7
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ.FEET/ACRE)	CON 200 400	6.2 8.5 8.3	2.3 2.1	37.1 33.9	7.6 8.2 7.0	0.6 -0.6	7.9 -7.9

INSTALLATION 211 HEEL CREEK
 REGION: NORTHEAST WASHINGTON OWNERSHIP: INLAND EMPIRE
 LEGAL DESCRIPTION: T31N R43E SECTION 20 MERIDIAN: WILLAMETTE

SITE AND SOIL CHARACTERISTICS:

ELEVATION	3100 FEET
SLOPE	37 PERCENT
ASPECT	143 DEGREES
DOUGLAS-FIR SITE INDEX	88.7 FEET AT 50 YEARS
VEGETATION SERIES	WESTERN REDCEDAR
PARENT MATERIAL	GLACIAL FILL
ASH DEPTH	SHALLOW (< 3 IN)
SOIL DEPTH	DEEP (> 24 IN)
TOTAL NITROGEN	2613 PPM
TOTAL PHOSPHORUS	938 PPM
CARBON	1.55 PERCENT
MINERALIZABLE NITROGEN	30.7 PPM
COARSE FRAGMENTS	12.5 PERCENT
CORRECTED MINERALIZABLE N	26.5 PPM
TOTAL SOIL MOISTURE	14.6 INCHES

STAND CHARACTERISTICS:

INITIAL AGE	34 YEARS
INITIAL TREES PER ACRE	472 TREES/ACRE
INITIAL BASAL AREA	172.0 SQ.FEET/ACRE
INITIAL TOTAL VOLUME	3786 CU.FEET/ACRE
INITIAL CCF	208.1
RELATIVE DENSITY INDEX	60.1
MEAN DIAMETER	8.2 INCHES
SITE HEIGHT (40 TPA)	65.3 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	94.4 PERCENT
GRAND FIR	0.4 PERCENT
WESTERN LARCH	0.3 PERCENT
LODGEPOLE PINE	0.2 PERCENT
WHITE PINE	0.5 PERCENT
PONDEROSA PINE	4.1 PERCENT

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
FOUR-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	28.6		
	200 # N	30.8	2.2	7.7
	400 # N	6.7	-21.9	-76.6
FOUR-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	29.0		
	200 # N	34.5	5.5	19.0
	400 # N	34.9	5.9	20.3
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	4.8		
	200 # N	5.4	0.6	12.5
	400 # N	5.8	1.0	20.8
FOUR-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	962		
	200 # N	1095	133	13.8
	400 # N	511	-451	-46.9
FOUR-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	968		
	200 # N	1163	195	20.1
	400 # N	1137	169	17.5
			FIRST TWO YEARS	
			RESPONSE	
	TRT	INC	DIFF	%
TWO-YEAR PERIODIC NET BASAL AREA (SQ.FEET/ACRE)	CON	14.9		
	200	17.9	3.0	20.1
	400	15.1	0.2	1.3
			SECOND TWO YEARS	
			RESPONSE	
	TRT	INC	DIFF	%
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ.FEET/ACRE)	CON	14.9		
	200	17.9	3.0	20.1
	400	19.1	4.2	28.2
			SECOND TWO YEARS	
			RESPONSE	
	TRT	INC	DIFF	%
TWO-YEAR PERIODIC NET BASAL AREA (SQ.FEET/ACRE)	CON	14.9		
	200	17.9	3.0	20.1
	400	19.1	4.2	28.2

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

SITE AND SOIL CHARACTERISTICS:

ELEVATION	4100 FEET
SLOPE	51 PERCENT
ASPECT	318 DEGREES
DOUGLAS-FIR SITE INDEX	55.2 FEET AT 50 YEARS
VEGETATION SERIES	GRAND FIR
PARENT MATERIAL	BASALT
ASH DEPTH	NONE
SOIL DEPTH	SHALLOW (< 12 IN)
TOTAL NITROGEN	2932 PPM
TOTAL PHOSPHORUS	623 PPM
CARBON	2.46 PERCENT
MINERALIZABLE NITROGEN	55.5 PPM
COARSE FRAGMENTS	29.2 PERCENT
CORRECTED MINERALIZABLE N	39.3 PPM
TOTAL SOIL MOISTURE	2.9 INCHES

STAND CHARACTERISTICS:

INITIAL AGE	71 YEARS
INITIAL TREES PER ACRE	197 TREES/ACRE
INITIAL BASAL AREA	81.1 SQ. FEET/ACRE
INITIAL TOTAL VOLUME	1864 CU. FEET/ACRE
INITIAL CCP	98.3
RELATIVE DENSITY INDEX	27.4
MEAN DIAMETER	8.7 INCHES
SITE HEIGHT (40 TPA)	64.0 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	96.3 PERCENT
WESTERN LARCH	2.5 PERCENT
PONDEROSA PINE	1.2 PERCENT

GROWTH:

NOTE: ALL INCREMENTS HAVE BEEN ADJUSTED TO A COMMON INITIAL BASAL AREA OF 81.1 SQ. FEET/ACRE

	TREATMENT	INCREMENT	RESPONSE		
			DIFFERENCE	% OF CONTROL	
FOUR-YEAR NET BASAL AREA (SQ. FEET/ACRE)	CONTROL 200 # N 400 # N	10.9 14.8 13.1			
			3.9 2.2	35.8 20.2	
FOUR-YEAR GROSS BASAL AREA (SQ. FEET/ACRE)	CONTROL 200 # N 400 # N	11.0 14.8 13.2			
			3.8 2.2	34.5 20.0	
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL 200 # N 400 # N	4.2 4.5 4.5			
			0.3 0.3	7.1 7.1	
FOUR-YEAR NET TOTAL VOLUME (CU. FEET/ACRE)	CONTROL 200 # N 400 # N	379 462 437			
			83 58	21.9 15.3	
FOUR-YEAR GROSS TOTAL VOLUME (CU. FEET/ACRE)	CONTROL 200 # N 400 # N	381 461 438			
			80 57	21.0 15.0	
			FIRST TWO YEARS		
			RESPONSE		
	TBT	INC	DIFF	%	
TWO-YEAR PERIODIC NET BASAL AREA (SQ. FEET/ACRE)	CON 200 400	5.7 8.3 7.5			
			2.6 1.8	45.6 31.6	
			SECOND TWO YEARS		
			RESPONSE		
			INC	DIFF	%
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ. FEET/ACRE)	CON 200 400	5.7 8.3 7.5			
			5.3 6.5 5.6	1.2 0.3	22.6 5.7

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

SITE AND SOIL CHARACTERISTICS:

ELEVATION	3600 FEET
SLOPE	6 PERCENT
ASPECT	156 DEGREES
DOUGLAS-FIR SITE INDEX	70.0 FEET AT 50 YEARS
VEGETATION SERIES	WESTERN REDCEDAR
PARENT MATERIAL	GLACIAL TILL
ASH DEPTH	MEDIUM (3 TO 12 IN)
SOIL DEPTH	DEEP (> 24 IN)
TOTAL NITROGEN	2181 PPM
TOTAL PHOSPHORUS	1812 PPM
CARBON	1.65 PERCENT
MINERALIZABLE NITROGEN	46.0 PPM
COARSE FRAGMENTS	21.2 PERCENT
CORRECTED MINERALIZABLE N	36.0 PPM
TOTAL SOIL MOISTURE	8.1 INCHES

STAND CHARACTERISTICS:

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

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE				
			DIFFERENCE	% OF CONTROL			
FOUR-YEAR NET BASAL AREA (SQ. FEET/ACRE)	CONTROL	22.0					
	200 # N	23.5	1.5	6.8			
	400 # N	27.5	5.5	25.0			
FOUR-YEAR GROSS BASAL AREA (SQ. FEET/ACRE)	CONTROL	22.0					
	200 # N	23.5	1.5	6.8			
	400 # N	27.2	5.2	23.6			
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	6.6					
	200 # N	6.1	-0.5	-7.6			
	400 # N	6.2	-0.4	-6.1			
FOUR-YEAR NET TOTAL VOLUME (CU. FEET/ACRE)	CONTROL	723					
	200 # N	739	16	2.2			
	400 # N	826	103	14.2			
FOUR-YEAR GROSS TOTAL VOLUME (CU. FEET/ACRE)	CONTROL	723					
	200 # N	736	13	1.8			
	400 # N	819	96	13.3			
			FIRST TWO YEARS	SECOND TWO YEARS			
			RESPONSE	RESPONSE			
	TRT	INC	DIFF	%	INC	DIFF	%
TWO-YEAR PERIODIC NET BASAL AREA (SQ. FEET/ACRE)	CON	11.1			10.9		
	200	11.7	0.6	5.4	11.8	0.9	8.3
	400	13.2	2.1	18.9	14.4	3.5	32.1
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ. FEET/ACRE)	CON	11.1			10.9		
	200	11.7	0.6	5.4	11.7	0.8	7.3
	400	13.2	2.1	18.9	14.1	3.2	29.4

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

SITE AND SOIL CHARACTERISTICS:

ELEVATION 3400 FEET
 SLOPE 27 PERCENT
 ASPECT 184 DEGREES
 DOUGLAS-FIR SITE INDEX 67.9 FEET AT 50 YEARS
 VEGETATION SERIES GRAND FIR
 PARENT MATERIAL GLACIAL TILL
 ASH DEPTH SHALLOW (< 3 IN)
 SOIL DEPTH DEEP (> 24 IN)
 TOTAL NITROGEN 2419 PPM
 TOTAL PHOSPHORUS 893 PPM
 CARBON 1.51 PERCENT
 MINERALIZABLE NITROGEN 52.7 PPM
 COARSE FRAGMENTS 36.2 PERCENT
 CORRECTED MINERALIZABLE N 33.2 PPM
 TOTAL SOIL MOISTURE 8.1 INCHES

STAND CHARACTERISTICS:

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

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
FOUR-YEAR NET BASAL AREA (SQ. FEET/ACRE)	CONTROL	21.5		
	200 # N	27.5	6.0	27.9
	400 # N	24.5	3.0	14.0
FOUR-YEAR GROSS BASAL AREA (SQ. FEET/ACRE)	CONTROL	21.1		
	200 # N	27.5	6.4	30.3
	400 # N	24.4	3.3	15.6
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	6.0		
	200 # N	6.4	0.4	6.7
	400 # N	6.8	0.8	13.3
FOUR-YEAR NET TOTAL VOLUME (CU. FEET/ACRE)	CONTROL	601		
	200 # N	748	147	24.5
	400 # N	721	120	20.0
FOUR-YEAR GROSS TOTAL VOLUME (CU. FEET/ACRE)	CONTROL	588		
	200 # N	749	161	27.4
	400 # N	720	132	22.4
			FIRST TWO YEARS	
			RESPONSE	
	TRT	INC	DIFP	%
TWO-YEAR PERIODIC NET BASAL AREA (SQ. FEET/ACRE)	CON	10.6		
	200	14.3	3.7	34.9
	400	12.1	1.5	14.2
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ. FEET/ACRE)	CON	10.5		
	200	14.2	3.7	35.2
	400	12.1	1.6	15.2
			SECOND TWO YEARS	
			RESPONSE	
	INC	DIFP	%	
	CON	10.9		
	200	13.3	2.4	22.0
	400	12.4	1.5	13.8
	CON	10.7		
	200	13.3	2.6	24.3
	400	12.4	1.7	15.9

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

SITE AND SOIL CHARACTERISTICS:

ELEVATION	3200 FEET
SLOPE	13 PERCENT
ASPECT	158 DEGREES
DOUGLAS-FIR SITE INDEX	67.1 FEET AT 50 YEARS
VEGETATION SERIES	DOUGLAS-FIR
PARENT MATERIAL	GLACIAL TILL
ASH DEPTH	SHALLOW (< 3 IN)
SOIL DEPTH	MODERATE (12 TO 24 IN)
TOTAL NITROGEN	2547 PPM
TOTAL PHOSPHORUS	810 PPM
CARBON	1.76 PERCENT
MINERALIZABLE NITROGEN	40.5 PPM
COARSE FRAGMENTS	22.7 PERCENT
CORRECTED MINERALIZABLE N	31.5 PPM
TOTAL SOIL MOISTURE	6.6 INCHES

STAND CHARACTERISTICS:

INITIAL AGE	66 YEARS
INITIAL TREES PER ACRE	280 TREES/ACRE
INITIAL BASAL AREA	142.9 SQ.FEET/ACRE
INITIAL TOTAL VOLUME	3809 CU.FEET/ACRE
INITIAL CCF	164.9
RELATIVE DENSITY INDEX	45.8
MEAN DIAMETER	9.7 INCHES
SITE HEIGHT (40 TPA)	73.9 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	85.7 PERCENT
WESTERN LARCH	4.0 PERCENT
PONDEROSA PINE	10.3 PERCENT

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE				
			DIFFERENCE	% OF CONTROL			

FOUR-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	6.9					
	200 # N	8.8	1.9	27.5			
	400 # N	7.2	0.3	4.3			
FOUR-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	13.7					
	200 # N	15.9	2.2	16.1			
	400 # N	17.4	3.7	27.0			
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	5.4					
	200 # N	5.7	0.3	5.6			
	400 # N	5.4	0.0	0.0			
FOUR-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	443					
	200 # N	563	120	27.1			
	400 # N	467	24	5.4			
FOUR-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	639					
	200 # N	747	108	16.9			
	400 # N	752	113	17.7			
	FIRST TWO YEARS			SECOND TWO YEARS			
		RESPONSE		RESPONSE			
	TRT	INC	DIFF	%	INC	DIFF	%
TWO-YEAR PERIODIC NET BASAL AREA (SQ.FEET/ACRE)	CON	6.3			0.7		
	200	7.6	1.3	20.6	1.1	0.4	57.1
	400	8.4	2.1	33.3	-1.3	-2.0	-285.7
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ.FEET/ACRE)	CON	6.0			7.7		
	200	7.8	1.8	30.0	8.1	0.4	5.2
	400	8.4	2.4	40.0	9.0	1.3	16.9

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

SITE AND SOIL CHARACTERISTICS:

ELEVATION	2900 FEET
SLOPE	5 PERCENT
ASPECT	345 DEGREES
DOUGLAS-FIR SITE INDEX	61.2 FEET AT 50 YEARS
VEGETATION SERIES	DOUGLAS-FIR
PARENT MATERIAL	GLACIAL TILL
ASH DEPTH	MEDIUM (3 TO 12 IN)
SOIL DEPTH	DEEP (> 24 IN)
TOTAL NITROGEN	2122 PPM
TOTAL PHOSPHORUS	1370 PPM
CARBON	1.48 PERCENT
MINERALIZABLE NITROGEN	41.7 PPM
COARSE FRAGMENTS	15.2 PERCENT
CORRECTED MINERALIZABLE N	35.5 PPM
TOTAL SOIL MOISTURE	7.2 INCHES

STAND CHARACTERISTICS:

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

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE		
			DIFFERENCE	% OF CONTROL	
FOUR-YEAR NET BASAL AREA (SQ. FEET/ACRE)	CONTROL	13.9			
	200 # N	18.4	4.5	32.4	
	400 # N	19.6	5.7	41.0	
FOUR-YEAR GROSS BASAL AREA (SQ. FEET/ACRE)	CONTROL	13.9			
	200 # N	19.0	5.1	36.7	
	400 # N	19.7	5.8	41.7	
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	4.3			
	200 # N	4.9	0.6	14.0	
	400 # N	5.6	1.3	30.2	
FOUR-YEAR NET TOTAL VOLUME (CU. FEET/ACRE)	CONTROL	513			
	200 # N	642	129	25.1	
	400 # N	728	215	41.9	
FOUR-YEAR GROSS TOTAL VOLUME (CU. FEET/ACRE)	CONTROL	512			
	200 # N	654	142	27.7	
	400 # N	729	217	42.4	
			FIRST TWO YEARS	SECOND TWO YEARS	
			RESPONSE		
	TRT	INC	DIFF	%	
	---	---	---	---	
TWO-YEAR PERIODIC NET BASAL AREA (SQ. FEET/ACRE)	CON	7.8			
	200	10.6	2.8	35.9	
	400	11.4	3.6	46.2	
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ. FEET/ACRE)	CON	7.6			
	200	10.7	3.1	40.8	
	400	11.4	3.8	50.0	
			INC	DIFF	%
			---	---	---
			6.1		
			7.7	1.6	26.2
			8.3	2.2	36.1
			6.2		
			8.3	2.1	33.9
			8.3	2.1	33.9

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

SITE AND SOIL CHARACTERISTICS:

ELEVATION	3000 FEET
SLOPE	19 PERCENT
ASPECT	224 DEGREES
DOUGLAS-FIR SITE INDEX	48.3 FEET AT 50 YEARS
VEGETATION SERIES	DOUGLAS-FIR
PARENT MATERIAL	GLACIAL TILL
ASH DEPTH	NONE
SOIL DEPTH	MODERATE (12 TO 24 IN)
TOTAL NITROGEN	1572 PPM
TOTAL PHOSPHORUS	664 PPM
CARBON	1.23 PERCENT
MINERALIZABLE NITROGEN	36.3 PPM
COARSE FRAGMENTS	16.6 PERCENT
CORRECTED MINERALIZABLE N	30.0 PPM
TOTAL SOIL MOISTURE	7.9 INCHES

STAND CHARACTERISTICS:

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

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE		
			DIFFERENCE	% OF CONTROL	
FOUR-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	18.1			
	200 # N	17.3	-0.8	-4.4	
	400 # N	19.4	1.3	7.2	
FOUR-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	18.2			
	200 # N	17.3	-0.9	-4.9	
	400 # N	19.6	1.4	7.7	
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	3.6			
	200 # N	3.4	-0.2	-5.6	
	400 # N	4.0	0.4	11.1	
FOUR-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	531			
	200 # N	523	-8	-1.5	
	400 # N	607	76	14.3	
FOUR-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	536			
	200 # N	524	-12	-2.2	
	400 # N	613	77	14.4	
			FIRST TWO YEARS	SECOND TWO YEARS	
			RESPONSE		
	TRT	INC	DIFF	%	
TWO-YEAR PERIODIC NET BASAL AREA (SQ.FEET/ACRE)	CON	9.6			
	200	9.2	-0.4	-4.2	
	400	10.4	0.8	8.3	
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ.FEET/ACRE)	CON	9.6			
	200	9.2	-0.4	-4.2	
	400	10.4	0.8	8.3	
			INC	DIFF	%
			8.6		
			8.1	-0.5	-5.8
			9.0	0.4	4.7
			8.6		
			8.1	-0.5	-5.8
			9.2	0.6	7.0

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

SITE AND SOIL CHARACTERISTICS:

ELEVATION 4600 FEET
 SLOPE 23 PERCENT
 ASPECT 344 DEGREES
 DOUGLAS-FIR SITE INDEX 55.8 FEET AT 50 YEARS
 VEGETATION SERIES DOUGLAS-FIR
 PARENT MATERIAL BASALT
 ASH DEPTH NONE
 SOIL DEPTH MODERATE (12 TO 24 IN)
 TOTAL NITROGEN 3545 PPM
 TOTAL PHOSPHORUS 1059 PPM
 CARBON 2.78 PERCENT
 MINERALIZABLE NITROGEN 57.7 PPM
 COARSE FRAGMENTS 11.8 PERCENT
 CORRECTED MINERALIZABLE N 50.8 PPM
 TOTAL SOIL MOISTURE 2.5 INCHES

STAND CHARACTERISTICS:

INITIAL AGE 67 YEARS
 INITIAL TREES PER ACRE 243 TREES/ACRE
 INITIAL BASAL AREA 128.2 SQ. FEET/ACRE
 INITIAL TOTAL VOLUME 2920 CU. FEET/ACRE
 INITIAL CCP 138.1
 RELATIVE DENSITY INDEX 40.8
 MEAN DIAMETER 9.9 INCHES
 SITE HEIGHT (40 TPA) 64.3 FEET
 SPECIES COMPOSITION (% OF TOTAL BA)
 DOUGLAS-FIR 74.0 PERCENT
 PONDEROSA PINE 26.0 PERCENT

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
FOUR-YEAR NET BASAL AREA (SQ. FEET/ACRE)	CONTROL	15.9		
	200 # N	20.3	4.4	27.7
	400 # N	23.4	7.5	47.2
FOUR-YEAR GROSS BASAL AREA (SQ. FEET/ACRE)	CONTROL	15.6		
	200 # N	20.3	4.7	30.1
	400 # N	23.0	7.4	47.4
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	3.6		
	200 # N	4.6	1.0	27.8
	400 # N	3.7	0.1	2.8
FOUR-YEAR NET TOTAL VOLUME (CU. FEET/ACRE)	CONTROL	553		
	200 # N	690	137	24.8
	400 # N	746	193	34.9
FOUR-YEAR GROSS TOTAL VOLUME (CU. FEET/ACRE)	CONTROL	544		
	200 # N	689	145	26.7
	400 # N	736	192	35.3
			FIRST TWO YEARS	
			RESPONSE	
	TRT	INC	DIFF	%
TWO-YEAR PERIODIC NET BASAL AREA (SQ. FEET/ACRE)	CON	7.9		
	200	10.8	2.9	36.7
	400	12.5	4.6	58.2
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ. FEET/ACRE)	CON	7.8		
	200	10.8	3.0	38.5
	400	12.4	4.6	59.0
			SECOND TWO YEARS	
			RESPONSE	
	TRT	INC	DIFF	%
TWO-YEAR PERIODIC NET BASAL AREA (SQ. FEET/ACRE)	CON	7.9		
	200	10.8	2.9	36.7
	400	12.5	4.6	58.2
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ. FEET/ACRE)	CON	7.8		
	200	10.8	3.0	38.5
	400	12.4	4.6	59.0

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

SITE AND SOIL CHARACTERISTICS:

ELEVATION 5700 FEET
 SLOPE 31 PERCENT
 ASPECT 280 DEGREES
 DOUGLAS-FIR SITE INDEX 49.9 FEET AT 50 YEARS
 VEGETATION SERIES GRAND FIR
 PARENT MATERIAL GRANITE
 ASH DEPTH NONE
 SOIL DEPTH DEEP (> 24 IN)
 TOTAL NITROGEN 1486 PPM
 TOTAL PHOSPHORUS 590 PPM
 CARBON 1.09 PERCENT
 MINERALIZABLE NITROGEN 25.2 PPM
 COARSE FRAGMENTS 22.8 PERCENT
 CORRECTED MINERALIZABLE N 19.3 PPM
 TOTAL SOIL MOISTURE 6.2 INCHES

STAND CHARACTERISTICS:

INITIAL AGE 89 YEARS
 INITIAL TREES PER ACRE 268 TREES/ACRE
 INITIAL BASAL AREA 104.8 SQ.FEET/ACRE
 INITIAL TOTAL VOLUME 2506 CU.FEET/ACRE
 INITIAL CCF 130.0
 RELATIVE DENSITY INDEX 35.9
 MEAN DIAMETER 8.5 INCHES
 SITE HEIGHT (40 TPA) 67.7 FEET
 SPECIES COMPOSITION (% OF TOTAL BA)
 DOUGLAS-FIR 88.6 PERCENT
 GRAND FIR 7.9 PERCENT
 WESTERN LARCH 1.1 PERCENT
 LODGEPOLE PINE 0.5 PERCENT
 PONDEROSA PINE 1.8 PERCENT

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE				
			DIFFERENCE	% OF CONTROL			
FOUR-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	8.2					
	200 # N	12.1	3.9	47.6			
	400 # N	13.8	5.6	68.3			
FOUR-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	9.9					
	200 # N	13.5	3.6	36.4			
	400 # N	14.7	4.8	48.5			
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	1.1					
	200 # N	2.1	1.0	90.9			
	400 # N	2.2	1.1	100.0			
FOUR-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	214					
	200 # N	385	171	79.9			
	400 # N	384	170	79.4			
FOUR-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	255					
	200 # N	414	159	62.4			
	400 # N	404	149	58.4			
	FIRST TWO YEARS			SECOND TWO YEARS			
		RESPONSE			RESPONSE		
TWO-YEAR PERIODIC NET BASAL AREA (SQ.FEET/ACRE)	TRT	INC	DIFF	%	INC	DIFF	%
	CON	3.0			5.2		
	200	5.3	2.3	76.7	6.8	1.6	30.8
400	7.7	4.7	156.7	6.1	0.9	17.3	
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ.FEET/ACRE)	CON	4.6			5.3		
	200	6.6	2.0	43.5	6.8	1.5	28.3
	400	7.7	3.1	67.4	7.0	1.7	32.1

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

SITE AND SOIL CHARACTERISTICS:

ELEVATION 4200 FEET
 SLOPE 39 PERCENT
 ASPECT 100 DEGREES
 DOUGLAS-FIR SITE INDEX 54.8 FEET AT 50 YEARS
 VEGETATION SERIES GRAND FIR
 PARENT MATERIAL BASALT
 ASH DEPTH NONE
 SOIL DEPTH MODERATE (12 TO 24 IN)
 TOTAL NITROGEN 3582 PPM
 TOTAL PHOSPHORUS 1319 PPM
 CARBON 2.40 PERCENT
 MINERALIZABLE NITROGEN 55.8 PPM
 COARSE FRAGMENTS 15.4 PERCENT
 CORRECTED MINERALIZABLE N 47.3 PPM
 TOTAL SOIL MOISTURE 3.9 INCHES

STAND CHARACTERISTICS:

INITIAL AGE 82 YEARS
 INITIAL TREES PER ACRE 180 TREES/ACRE
 INITIAL BASAL AREA 118.1 SQ. FEET/ACRE
 INITIAL TOTAL VOLUME 2918 CU. FEET/ACRE
 INITIAL CCF 126.4
 RELATIVE DENSITY INDEX 35.5
 MEAN DIAMETER 11.0 INCHES
 SITE HEIGHT (40 TPA) 72.2 FEET
 SPECIES COMPOSITION (% OF TOTAL BA)
 DOUGLAS-FIR 88.6 PERCENT
 GRAND FIR 1.5 PERCENT
 WESTERN LARCH 2.1 PERCENT
 LODGEPOLE PINE 0.9 PERCENT
 PONDEROSA PINE 6.4 PERCENT
 ENGELMANN SPRUCE 0.5 PERCENT

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
FOUR-YEAR NET BASAL AREA (SQ. FEET/ACRE)	CONTROL	9.4		
	200 # N	17.1	7.7	81.9
	400 # N	13.5	4.1	43.6
FOUR-YEAR GROSS BASAL AREA (SQ. FEET/ACRE)	CONTROL	11.3		
	200 # N	17.1	5.8	51.3
	400 # N	14.0	2.7	23.3
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	2.6		
	200 # N	3.6	1.0	38.5
	400 # N	2.9	0.3	11.5
FOUR-YEAR NET TOTAL VOLUME (CU. FEET/ACRE)	CONTROL	362		
	200 # N	548	186	51.4
	400 # N	459	97	26.8
FOUR-YEAR GROSS TOTAL VOLUME (CU. FEET/ACRE)	CONTROL	397		
	200 # N	547	150	37.8
	400 # N	473	76	19.1
			FIRST TWO YEARS	
			RESPONSE	
	TRT	INC	DIFF	%
TWO-YEAR PERIODIC NET BASAL AREA (SQ. FEET/ACRE)	CON	3.6		
	200	8.7	5.1	141.7
	400	6.9	3.3	91.7
			SECOND TWO YEARS	
			RESPONSE	
	TRT	INC	DIFF	%
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ. FEET/ACRE)	CON	5.4		
	200	8.8	3.4	63.0
	400	7.0	1.6	29.6
			6.0	
			8.3	2.4
			6.6	0.7
			8.3	2.3
			7.0	1.0
				38.3
				16.7

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

SITE AND SOIL CHARACTERISTICS:

ELEVATION	4800 FEET
SLOPE	27 PERCENT
ASPECT	41 DEGREES
DOUGLAS-FIR SITE INDEX	53.3 FEET AT 50 YEARS
VEGETATION SERIES	DOUGLAS-FIR
PARENT MATERIAL	BASALT
ASH DEPTH	NONE
SOIL DEPTH	MODERATE (12 TO 24 IN)
TOTAL NITROGEN	2676 PPM
TOTAL PHOSPHORUS	1098 PPM
CARBON	1.51 PERCENT
MINERALIZABLE NITROGEN	43.0 PPM
COARSE FRAGMENTS	16.5 PERCENT
CORRECTED MINERALIZABLE N	35.0 PPM
TOTAL SOIL MOISTURE	4.2 INCHES

STAND CHARACTERISTICS:

INITIAL AGE	71 YEARS
INITIAL TREES PER ACRE	355 TREES/ACRE
INITIAL BASAL AREA	138.6 SQ.FEET/ACRE
INITIAL TOTAL VOLUME	3142 CU.FEET/ACRE
INITIAL CCF	165.9
RELATIVE DENSITY INDEX	47.4
MEAN DIAMETER	8.7 INCHES
SITE HEIGHT (40 TPA)	64.3 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	90.7 PERCENT
GRAND FIR	0.1 PERCENT
PONDEROSA PINE	9.2 PERCENT

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
FOUR-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	19.3		
	200 # N	17.3	-2.0	-10.4
	400 # N	21.2	1.9	9.8
FOUR-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	18.9		
	200 # N	17.3	-1.6	-8.5
	400 # N	20.9	2.0	10.6
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	3.3		
	200 # N	3.1	-0.2	-6.1
	400 # N	3.0	-0.3	-9.1
FOUR-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	611		
	200 # N	547	-64	-10.5
	400 # N	653	42	6.9
FOUR-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	599		
	200 # N	549	-50	-8.3
	400 # N	642	43	7.2
			FIRST TWO YEARS	
			RESPONSE	
	TRT	INC	DIFF	%
TWO-YEAR PERIODIC NET BASAL AREA (SQ.FEET/ACRE)	CON	9.4		
	200	9.2	-0.2	-2.1
	400	11.2	1.8	19.1
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ.FEET/ACRE)	CON	9.1		
	200	9.3	0.2	2.2
	400	11.1	2.0	22.0
			SECOND TWO YEARS	
			RESPONSE	
	TRT	INC	DIFF	%
TWO-YEAR PERIODIC NET BASAL AREA (SQ.FEET/ACRE)	CON	9.9		
	200	8.0	-1.9	-19.2
	400	10.1	0.2	2.0
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ.FEET/ACRE)	CON	9.8		
	200	8.0	-1.8	-18.4
	400	9.8	0.0	0.0

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

SITE AND SOIL CHARACTERISTICS:

ELEVATION 4400 FEET
 SLOPE 35 PERCENT
 ASPECT 42 DEGREES
 DOUGLAS-FIR SITE INDEX 55.1 FEET AT 50 YEARS
 VEGETATION SERIES GRAND FIR
 PARENT MATERIAL BASALT
 ASH DEPTH NONE
 SOIL DEPTH MODERATE (12 TO 24 IN)
 TOTAL NITROGEN 2124 PPM
 TOTAL PHOSPHORUS 948 PPM
 CARBON 1.70 PERCENT
 MINERALIZABLE NITROGEN 35.3 PPM
 COARSE FRAGMENTS 14.6 PERCENT
 CORRECTED MINERALIZABLE N 30.0 PPM
 TOTAL SOIL MOISTURE 6.4 INCHES

STAND CHARACTERISTICS:

INITIAL AGE 75 YEARS
 INITIAL TREES PER ACRE 225 TREES/ACRE
 INITIAL BASAL AREA 111.3 SQ. FEET/ACRE
 INITIAL TOTAL VOLUME 2708 CU. FEET/ACRE
 INITIAL CCF 123.9
 RELATIVE DENSITY INDEX 35.9
 MEAN DIAMETER 9.6 INCHES
 SITE HEIGHT (40 TPA) 69.0 FEET
 SPECIES COMPOSITION (% OF TOTAL BA)
 DOUGLAS-FIR 82.5 PERCENT
 GRAND FIR 0.8 PERCENT
 PONDEROSA PINE 16.7 PERCENT

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE		
			DIFFERENCE	% OF CONTROL	
FOUR-YEAR NET BASAL AREA (SQ. FEET/ACRE)	CONTROL	14.3			
	200 # N	23.5	9.2	64.3	
	400 # N	18.9	4.6	32.2	
FOUR-YEAR GROSS BASAL AREA (SQ. FEET/ACRE)	CONTROL	14.3			
	200 # N	23.4	9.1	63.6	
	400 # N	19.0	4.7	32.9	
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	3.4			
	200 # N	4.6	1.2	35.3	
	400 # N	4.3	0.9	26.5	
FOUR-YEAR NET TOTAL VOLUME (CU. FEET/ACRE)	CONTROL	481			
	200 # N	769	288	59.9	
	400 # N	675	194	40.3	
FOUR-YEAR GROSS TOTAL VOLUME (CU. FEET/ACRE)	CONTROL	481			
	200 # N	768	287	59.7	
	400 # N	677	196	40.7	
			FIRST TWO YEARS		
			RESPONSE		
	TRT	INC	DIFF	%	
TWO-YEAR PERIODIC NET BASAL AREA (SQ. FEET/ACRE)	CON	7.1			
	200	12.3	5.2	73.2	
	400	10.3	3.2	45.1	
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ. FEET/ACRE)	CON	7.0			
	200	12.3	5.3	75.7	
	400	10.3	3.3	47.1	
			SECOND TWO YEARS		
			RESPONSE		
			INC	DIFF	%

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

SITE AND SOIL CHARACTERISTICS:

ELEVATION 3800 FEET
 SLOPE 3 PERCENT
 ASPECT 93 DEGREES
 DOUGLAS-FIR SITE INDEX 91.0 FEET AT 50 YEARS
 VEGETATION SERIES GRAND FIR
 PARENT MATERIAL BASALT
 ASH DEPTH NONE
 SOIL DEPTH SHALLOW (< 12 IN)
 TOTAL NITROGEN 2618 PPM
 TOTAL PHOSPHORUS 945 PPM
 CARBON 2.49 PERCENT
 MINERALIZABLE NITROGEN 35.2 PPM
 COARSE FRAGMENTS 14.1 PERCENT
 CORRECTED MINERALIZABLE N 30.2 PPM
 TOTAL SOIL MOISTURE 2.0 INCHES

STAND CHARACTERISTICS:

INITIAL AGE 74 YEARS
 INITIAL TREES PER ACRE 103 TREES/ACRE
 INITIAL BASAL AREA 155.3 SQ.FEET/ACRE
 INITIAL TOTAL VOLUME 5852 CU.FEET/ACRE
 INITIAL CCP 135.5
 RELATIVE DENSITY INDEX 38.0
 MEAN DIAMETER 16.7 INCHES
 SITE HEIGHT (40 TPA) 115.0 FEET
 SPECIES COMPOSITION (% OF TOTAL BA)
 DOUGLAS-FIR 93.4 PERCENT
 GRAND FIR 6.6 PERCENT

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
FOUR-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	16.0		
	200 # N	24.5	8.5	53.1
	400 # N	23.0	7.0	43.8
FOUR-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	17.7		
	200 # N	25.2	7.5	42.4
	400 # N	23.1	5.4	30.5
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	3.0		
	200 # N	4.1	1.1	36.7
	400 # N	3.4	0.4	13.3
FOUR-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	748		
	200 # N	1073	325	43.4
	400 # N	1053	305	40.8
FOUR-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	796		
	200 # N	1093	297	37.3
	400 # N	1055	259	32.5
			FIRST TWO YEARS	
			RESPONSE	
	TRT	INC	DIFF	%
TWO-YEAR PERIODIC NET BASAL AREA (SQ.FEET/ACRE)	CON	6.7		
	200	12.6	5.9	88.1
	400	11.5	4.8	71.6
			SECOND TWO YEARS	
			RESPONSE	
	TRT	INC	DIFF	%
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ.FEET/ACRE)	CON	8.5		
	200	12.4	3.9	45.9
	400	11.5	3.0	35.3

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

SITE AND SOIL CHARACTERISTICS:

ELEVATION 2200 FEET
 SLOPE 0 PERCENT
 ASPECT 0 DEGREES
 DOUGLAS-FIR SITE INDEX 54.7 FEET AT 50 YEARS
 VEGETATION SERIES DOUGLAS-FIR
 PARENT MATERIAL BASALT
 ASH DEPTH NONE
 SOIL DEPTH DEEP (> 24 IN)
 TOTAL NITROGEN 1660 PPM
 TOTAL PHOSPHORUS 715 PPM
 CARBON 1.42 PERCENT
 MINERALIZABLE NITROGEN 19.8 PPM
 COARSE FRAGMENTS 13.1 PERCENT
 CORRECTED MINERALIZABLE N 17.2 PPM
 TOTAL SOIL MOISTURE 5.9 INCHES

STAND CHARACTERISTICS:

INITIAL AGE 85 YEARS
 INITIAL TREES PER ACRE 160 TREES/ACRE
 INITIAL BASAL AREA 109.8 SQ. FEET/ACRE
 INITIAL TOTAL VOLUME 2817 CU. FEET/ACRE
 INITIAL CCF 121.1
 RELATIVE DENSITY INDEX 32.7
 MEAN DIAMETER 11.1 INCHES
 SITE HEIGHT (40 TPA) 74.2 FEET
 SPECIES COMPOSITION (% OF TOTAL BA)
 DOUGLAS-FIR 99.4 PERCENT
 PONDEROSA PINE 0.6 PERCENT

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE				
			DIFFERENCE	% OF CONTROL			
FOUR-YEAR NET BASAL AREA (SQ. FEET/ACRE)	CONTROL	18.2					
	200 # N	22.9	4.7	25.8			
	400 # N	28.9	10.7	58.8			
FOUR-YEAR GROSS BASAL AREA (SQ. FEET/ACRE)	CONTROL	18.0					
	200 # N	22.8	4.8	26.7			
	400 # N	29.2	11.2	62.2			
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	4.1					
	200 # N	5.5	1.4	34.1			
	400 # N	6.8	2.7	65.9			
FOUR-YEAR NET TOTAL VOLUME (CU. FEET/ACRE)	CONTROL	632					
	200 # N	772	140	22.2			
	400 # N	1021	389	61.6			
FOUR-YEAR GROSS TOTAL VOLUME (CU. FEET/ACRE)	CONTROL	625					
	200 # N	769	144	23.0			
	400 # N	1028	403	64.5			
		FIRST TWO YEARS		SECOND TWO YEARS			
		RESPONSE				RESPONSE	
	TRT	INC	DIFF	%	INC	DIFF	%
TWO-YEAR PERIODIC NET BASAL AREA (SQ. FEET/ACRE)	CON	8.6			9.6		
	200	10.9	2.3	26.7	12.1	2.5	26.0
	400	14.5	5.9	68.6	14.4	4.8	50.0
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ. FEET/ACRE)	CON	8.5			9.5		
	200	10.7	2.2	25.9	12.1	2.6	27.4
	400	14.5	6.0	70.6	14.6	5.1	53.7

INSTALLATION 226 CLEMAN MTN
 REGION: CENTRAL WASHINGTON OWNERSHIP: BOISE CASCADE
 LEGAL DESCRIPTION: T16N R15E SECTION 16 MERIDIAN: WILLAMETTE

SITE AND SOIL CHARACTERISTICS:

ELEVATION 2900 FEET
 SLOPE 9 PERCENT
 ASPECT 278 DEGREES
 DOUGLAS-FIR SITE INDEX 57.0 FEET AT 50 YEARS
 VEGETATION SERIES DOUGLAS-FIR
 PARENT MATERIAL BASALT
 ASH DEPTH NONE
 SOIL DEPTH DEEP (> 24 IN)
 TOTAL NITROGEN 1366 PPM
 TOTAL PHOSPHORUS 341 PPM
 CARBON 1.07 PERCENT
 MINERALIZABLE NITROGEN 17.2 PPM
 COARSE FRAGMENTS 5.6 PERCENT
 CORRECTED MINERALIZABLE N 16.0 PPM
 TOTAL SOIL MOISTURE 11.8 INCHES

STAND CHARACTERISTICS:

INITIAL AGE 79 YEARS
 INITIAL TREES PER ACRE 132 TREES/ACRE
 INITIAL BASAL AREA 88.1 SQ.FEET/ACRE
 INITIAL TOTAL VOLUME 2045 CU.FEET/ACRE
 INITIAL CCF 99.2
 RELATIVE DENSITY INDEX 26.4
 MEAN DIAMETER 11.1 INCHES
 SITE HEIGHT (40 TPA) 66.5 FEET
 SPECIES COMPOSITION (% OF TOTAL BA)
 DOUGLAS-FIR 99.1 PERCENT
 PONDEROSA PINE 0.9 PERCENT

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
FOUR-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	11.8		
	200 # N	17.1	5.3	44.9
	400 # N	19.5	7.7	65.3
FOUR-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	12.0		
	200 # N	17.1	5.1	42.5
	400 # N	19.8	7.8	65.0
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	4.1		
	200 # N	5.0	0.9	22.0
	400 # N	6.1	2.0	48.8
FOUR-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	399		
	200 # N	552	153	38.3
	400 # N	631	232	58.1
FOUR-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	407		
	200 # N	552	145	35.6
	400 # N	638	231	56.8
			FIRST TWO YEARS	
			RESPONSE	
	TRT	INC	DIFF	%
TWO-YEAR PERIODIC NET BASAL AREA (SQ.FEET/ACRE)	CON	6.0		
	200	9.1	3.1	51.7
	400	10.3	4.3	71.7
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ.FEET/ACRE)	CON	6.1		
	200	9.1	3.0	49.2
	400	10.3	4.2	68.9
			SECOND TWO YEARS	
			RESPONSE	
			INC	DIFF
			%	

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

SITE AND SOIL CHARACTERISTICS:

 ELEVATION 2400 FEET
 SLOPE 33 PERCENT
 ASPECT 43 DEGREES
 DOUGLAS-FIR SITE INDEX 55.7 FEET AT 50 YEARS
 VEGETATION SERIES DOUGLAS-FIR
 PARENT MATERIAL BASALT
 ASH DEPTH TRACE
 SOIL DEPTH MODERATE (12 TO 24 IN)
 TOTAL NITROGEN 1385 PPM
 TOTAL PHOSPHORUS 209 PPM
 CARBON 1.41 PERCENT
 MINERALIZABLE NITROGEN 24.7 PPM
 COARSE FRAGMENTS 15.6 PERCENT
 CORRECTED MINERALIZABLE N 20.8 PPM
 TOTAL SOIL MOISTURE 9.9 INCHES

STAND CHARACTERISTICS:

 INITIAL AGE 80 YEARS
 INITIAL TREES PER ACRE 123 TREES/ACRE
 INITIAL BASAL AREA 101.6 SQ. FEET/ACRE
 INITIAL TOTAL VOLUME 2680 CU. FEET/ACRE
 INITIAL CCF 110.2
 RELATIVE DENSITY INDEX 28.9
 MEAN DIAMETER 12.3 INCHES
 SITE HEIGHT (40 TPA) 73.6 FEET
 SPECIES COMPOSITION (% OF TOTAL BA)
 DOUGLAS-FIR 98.1 PERCENT
 PONDEROSA PINE 1.9 PERCENT

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE				
			DIFFERENCE	% OF CONTROL			
FOUR-YEAR NET	CONTROL	12.4					
BASAL AREA	200 # N	17.4	5.0	40.3			
(SQ. FEET/ACRE)	400 # N	15.7	3.3	26.6			
FOUR-YEAR GROSS	CONTROL	11.7					
BASAL AREA	200 # N	17.3	5.6	47.9			
(SQ. FEET/ACRE)	400 # N	15.6	3.9	33.3			
FOUR-YEAR	CONTROL	4.5					
AVERAGE HEIGHT	200 # N	6.0	1.5	33.3			
(FEET/TREE)	400 # N	5.8	1.3	28.9			
FOUR-YEAR NET	CONTROL	489					
TOTAL VOLUME	200 # N	697	208	42.5			
(CU. FEET/ACRE)	400 # N	635	146	29.9			
FOUR-YEAR GROSS	CONTROL	465					
TOTAL VOLUME	200 # N	697	232	49.9			
(CU. FEET/ACRE)	400 # N	632	167	35.9			
		<u>FIRST TWO YEARS</u>	<u>SECOND TWO YEARS</u>				
		<u>RESPONSE</u>		<u>RESPONSE</u>			
	TRT	INC	DIFF	%	INC	DIFF	%
TWO-YEAR PERIODIC	CON	5.5			6.9		
NET BASAL AREA	200	9.2	3.7	67.3	8.2	1.3	18.8
(SQ. FEET/ACRE)	400	7.8	2.3	41.8	7.9	1.0	14.5
TWO-YEAR PERIODIC	CON	5.3			6.4		
GROSS BASAL AREA	200	9.1	3.8	71.7	8.3	1.9	29.7
(SQ. FEET/ACRE)	400	7.8	2.5	47.2	7.8	1.4	21.9

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

SITE AND SOIL CHARACTERISTICS:

ELEVATION	2500 FEET
SLOPE	28 PERCENT
ASPECT	338 DEGREES
DOUGLAS-FIR SITE INDEX	76.9 FEET AT 50 YEARS
VEGETATION SERIES	DOUGLAS-FIR
PARENT MATERIAL	ASH AND/OR LOESS
ASH DEPTH	NONE
SOIL DEPTH	MODERATE (12 TO 24 IN)
TOTAL NITROGEN	1195 PPM
TOTAL PHOSPHORUS	255 PPM
CARBON	1.24 PERCENT
MINERALIZABLE NITROGEN	28.8 PPM
COARSE FRAGMENTS	11.3 PERCENT
CORRECTED MINERALIZABLE N	25.3 PPM
TOTAL SOIL MOISTURE	16.2 INCHES

STAND CHARACTERISTICS:

INITIAL AGE	64 YEARS
INITIAL TREES PER ACRE	212 TREES/ACRE
INITIAL BASAL AREA	140.4 SQ. FEET/ACRE
INITIAL TOTAL VOLUME	3922 CU. FEET/ACRE
INITIAL CCP	152.3
RELATIVE DENSITY INDEX	42.1
MEAN DIAMETER	11.2 INCHES
SITE HEIGHT (40 TPA)	79.5 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	89.1 PERCENT
PONDEROSA PINE	10.9 PERCENT

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
FOUR-YEAR NET BASAL AREA (SQ. FEET/ACRE)	CONTROL	15.8		
	200 # N	13.0	-2.8	-17.7
	400 # N	20.2	4.4	27.8
FOUR-YEAR GROSS BASAL AREA (SQ. FEET/ACRE)	CONTROL	15.5		
	200 # N	16.4	0.9	5.8
	400 # N	20.1	4.6	29.7
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	5.2		
	200 # N	4.8	-0.4	-7.7
	400 # N	5.3	0.1	1.9
FOUR-YEAR NET TOTAL VOLUME (CU. FEET/ACRE)	CONTROL	739		
	200 # N	643	-96	-13.0
	400 # N	833	94	12.7
FOUR-YEAR GROSS TOTAL VOLUME (CU. FEET/ACRE)	CONTROL	730		
	200 # N	714	-16	-2.2
	400 # N	831	101	13.8

	TRT	FIRST TWO YEARS				SECOND TWO YEARS		
		INC	RESPONSE		INC	RESPONSE		
			DIFF	%		DIFF	%	
TWO-YEAR PERIODIC NET BASAL AREA (SQ. FEET/ACRE)	CON	7.0			8.8			
	200	6.0	-1.0	-14.3	7.0	-1.8	-20.5	
	400	9.1	2.1	30.0	11.0	2.2	25.0	
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ. FEET/ACRE)	CON	6.8			8.7			
	200	7.5	0.7	10.3	8.9	0.2	2.3	
	400	9.1	2.3	33.8	11.0	2.3	26.4	

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

SITE AND SOIL CHARACTERISTICS:

ELEVATION	3000 FEET
SLOPE	14 PERCENT
ASPECT	59 DEGREES
DOUGLAS-FIR SITE INDEX	79.2 FEET AT 50 YEARS
VEGETATION SERIES	DOUGLAS-FIR
PARENT MATERIAL	BASALT
ASH DEPTH	TRACE
SOIL DEPTH	MODERATE (12 TO 24 IN)
TOTAL NITROGEN	1698 PPM
TOTAL PHOSPHORUS	484 PPM
CARBON	1.53 PERCENT
MINERALIZABLE NITROGEN	45.3 PPM
COARSE FRAGMENTS	21.1 PERCENT
CORRECTED MINERALIZABLE N	35.8 PPM
TOTAL SOIL MOISTURE	11.0 INCHES

STAND CHARACTERISTICS:

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

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE		
			DIFFERENCE	% OF CONTROL	
FOUR-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	16.9			
	200 # N	19.1	2.2	13.0	
	400 # N	21.9	5.0	29.6	
FOUR-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	16.9			
	200 # N	19.0	2.1	12.4	
	400 # N	22.0	5.1	30.2	
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	4.3			
	200 # N	5.5	1.2	27.9	
	400 # N	5.3	1.0	23.3	
FOUR-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	719			
	200 # N	859	140	19.5	
	400 # N	899	180	25.0	
FOUR-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	720			
	200 # N	856	136	18.9	
	400 # N	902	182	25.3	
			FIRST TWO YEARS	SECOND TWO YEARS	
			RESPONSE		
	TRT	INC	DIFF	%	
TWO-YEAR PERIODIC NET BASAL AREA (SQ.FEET/ACRE)	CON	8.1			
	200	9.1	1.0	12.3	
	400	10.1	2.0	24.7	
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ.FEET/ACRE)	CON	8.1			
	200	9.0	0.9	11.1	
	400	10.1	2.0	24.7	
			SECOND TWO YEARS	RESPONSE	
			INC	DIFF	%
			8.8		
			10.0	1.2	13.6
			11.8	3.0	34.1
			8.8		
			10.0	1.2	13.6
			11.9	3.1	35.2

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

SITE AND SOIL CHARACTERISTICS:

ELEVATION 2900 FEET
 SLOPE 8 PERCENT
 ASPECT 259 DEGREES
 DOUGLAS-FIR SITE INDEX 68.2 FEET AT 50 YEARS
 VEGETATION SERIES GRAND FIR
 PARENT MATERIAL ASH AND/OR LOESS
 ASH DEPTH SHALLOW (< 3 IN)
 SOIL DEPTH DEEP (> 24 IN)
 TOTAL NITROGEN 909 PPM
 TOTAL PHOSPHORUS 554 PPM
 CARBON 1.04 PERCENT
 MINERALIZABLE NITROGEN 23.0 PPM
 COARSE FRAGMENTS 16.4 PERCENT
 CORRECTED MINERALIZABLE N 18.8 PPM
 TOTAL SOIL MOISTURE 14.3 INCHES

STAND CHARACTERISTICS:

INITIAL AGE 81 YEARS
 INITIAL TREES PER ACRE 128 TREES/ACRE
 INITIAL BASAL AREA 124.2 SQ.FEET/ACRE
 INITIAL TOTAL VOLUME 3961 CU.FEET/ACRE
 INITIAL CCF 119.5
 RELATIVE DENSITY INDEX 33.9
 MEAN DIAMETER 13.5 INCHES
 SITE HEIGHT (40 TPA) 94.0 FEET
 SPECIES COMPOSITION (% OF TOTAL BA)
 DOUGLAS-FIR 86.0 PERCENT
 GRAND FIR 2.1 PERCENT
 LODGEPOLE PINE 1.0 PERCENT
 PONDEROSA PINE 10.8 PERCENT

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE			
			DIFFERENCE	% OF CONTROL		
FOUR-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL 200 # N 400 # N	11.8 18.9 23.7				
			7.1 11.9	60.2 100.8		
FOUR-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL 200 # N 400 # N	11.7 18.9 23.8				
			7.2 12.1	61.5 103.4		
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL 200 # N 400 # N	3.7 5.3 5.8				
			1.6 2.1	43.2 56.8		
FOUR-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL 200 # N 400 # N	540 860 1001				
			320 461	59.3 85.4		
FOUR-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL 200 # N 400 # N	538 860 1004				
			322 466	59.9 86.6		
		FIRST TWO YEARS		SECOND TWO YEARS		
		RESPONSE		RESPONSE		
		TRT	INC	INC	DIFF	%
TWO-YEAR PERIODIC NET BASAL AREA (SQ.FEET/ACRE)	CON		4.7	7.1		
	200		7.9	11.0	3.9	54.9
	400		9.7	14.0	6.9	97.2
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ.FEET/ACRE)	CON		4.6	7.1		
	200		7.9	11.0	3.9	54.9
	400		9.7	14.1	7.0	98.6

INSTALLATION 231 ELMO OWNERSHIP: FLATHEAD (BIA)
 REGION: MONTANA LEGAL DESCRIPTION: T24N R21W SECTION 30 MERIDIAN: PRINCIPAL

SITE AND SOIL CHARACTERISTICS:

ELEVATION	3500 FEET
SLOPE	28 PERCENT
ASPECT	358 DEGREES
DOUGLAS-FIR SITE INDEX	59.1 FEET AT 50 YEARS
VEGETATION SERIES	DOUGLAS-FIR
PARENT MATERIAL	GLACIAL TILL
ASH DEPTH	NONE
SOIL DEPTH	MODERATE (12 TO 24 IN)
TOTAL NITROGEN	3916 PPM
TOTAL PHOSPHORUS	754 PPM
CARBON	4.03 PERCENT
MINERALIZABLE NITROGEN	83.7 PPM
COARSE FRAGMENTS	37.5 PERCENT
CORRECTED MINERALIZABLE N	52.2 PPM
TOTAL SOIL MOISTURE	4.0 INCHES

STAND CHARACTERISTICS:

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

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE				
			DIFFERENCE	% OF CONTROL			
FOUR-YEAR NET BASAL AREA (SQ. FEET/ACRE)	CONTROL	11.3					
	200 # N	13.7	2.4	21.2			
	400 # N	13.9	2.6	23.0			
FOUR-YEAR GROSS BASAL AREA (SQ. FEET/ACRE)	CONTROL	11.4					
	200 # N	13.7	2.3	20.2			
	400 # N	13.7	2.3	20.2			
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	3.0					
	200 # N	2.9	-0.1	-3.3			
	400 # N	3.4	0.4	13.3			
FOUR-YEAR NET TOTAL VOLUME (CU. FEET/ACRE)	CONTROL	350					
	200 # N	418	68	19.4			
	400 # N	434	84	24.0			
FOUR-YEAR GROSS TOTAL VOLUME (CU. FEET/ACRE)	CONTROL	353					
	200 # N	415	62	17.6			
	400 # N	427	74	21.0			
			FIRST TWO YEARS	SECOND TWO YEARS			
			RESPONSE	RESPONSE			
	TRT	INC	DIFF	%	INC	DIFF	%
TWO-YEAR PERIODIC NET BASAL AREA (SQ. FEET/ACRE)	CON	7.1			4.2		
	200	8.5	1.4	19.7	5.1	0.9	21.4
	400	9.0	1.9	26.8	4.9	0.7	16.7
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ. FEET/ACRE)	CON	7.1			4.3		
	200	8.6	1.5	21.1	5.0	0.7	16.3
	400	9.0	1.9	26.8	4.7	0.4	9.3

INSTALLATION 232 SUNNY SLOPE
 REGION: MONTANA OWNERSHIP: FLATHEAD (BIA)
 LEGAL DESCRIPTION: T23N R21W SECTION 12 MERIDIAN: PRINCIPAL

SITE AND SOIL CHARACTERISTICS:

ELEVATION 3600 FEET
 SLOPE 12 PERCENT
 ASPECT 326 DEGREES
 DOUGLAS-FIR SITE INDEX 79.0 FEET AT 50 YEARS
 VEGETATION SERIES DOUGLAS-FIR
 PARENT MATERIAL GLACIAL TILL
 ASH DEPTH NONE
 SOIL DEPTH SHALLOW (< 12 IN)
 TOTAL NITROGEN 2747 PPM
 TOTAL PHOSPHORUS 537 PPM
 CARBON 2.70 PERCENT
 MINERALIZABLE NITROGEN 69.3 PPM
 COARSE FRAGMENTS 31.6 PERCENT
 CORRECTED MINERALIZABLE N 48.0 PPM
 TOTAL SOIL MOISTURE 1.6 INCHES

STAND CHARACTERISTICS:

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

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
FOUR-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	16.3		
	200 # N	20.7	4.4	27.0
	400 # N	18.7	2.4	14.7
FOUR-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	16.2		
	200 # N	20.7	4.5	27.8
	400 # N	20.8	4.6	28.4
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	3.9		
	200 # N	4.9	1.0	25.6
	400 # N	5.3	1.4	35.9
FOUR-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	608		
	200 # N	808	200	32.9
	400 # N	758	150	24.7
FOUR-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	608		
	200 # N	806	198	32.6
	400 # N	819	211	34.7
			FIRST TWO YEARS	SECOND TWO YEARS
			RESPONSE	
	TRT	INC	DIFF	%
TWO-YEAR PERIODIC NET BASAL AREA (SQ.FEET/ACRE)	CON	10.4		
	200	13.5	3.1	29.8
	400	14.1	3.7	35.6
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ.FEET/ACRE)	CON	10.4		
	200	13.5	3.1	29.8
	400	14.1	3.7	35.6
			INC	DIFF
				%

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

SITE AND SOIL CHARACTERISTICS:

ELEVATION	3200 FEET
SLOPE	12 PERCENT
ASPECT	291 DEGREES
DOUGLAS-FIR SITE INDEX	78.1 FEET AT 50 YEARS
VEGETATION SERIES	DOUGLAS-FIR
PARENT MATERIAL	ALLUVIUM
ASH DEPTH	NONE
SOIL DEPTH	MODERATE (12 TO 24 IN)
TOTAL NITROGEN	2518 PPM
TOTAL PHOSPHORUS	224 PPM
CARBON	2.66 PERCENT
MINERALIZABLE NITROGEN	60.5 PPM
COARSE FRAGMENTS	33.2 PERCENT
CORRECTED MINERALIZABLE N	40.2 PPM
TOTAL SOIL MOISTURE	6.0 INCHES

STAND CHARACTERISTICS:

INITIAL AGE	54 YEARS
INITIAL TREES PER ACRE	173 TREES/ACRE
INITIAL BASAL AREA	144.3 SQ. FEET/ACRE
INITIAL TOTAL VOLUME	3953 CU. FEET/ACRE
INITIAL CCP	153.8
RELATIVE DENSITY INDEX	41.0
MEAN DIAMETER	12.4 INCHES
SITE HEIGHT (40 TPA)	76.8 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	93.2 PERCENT
WESTERN LARCH	2.4 PERCENT
PONDEROSA PINE	4.4 PERCENT

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
FOUR-YEAR NET BASAL AREA (SQ. FEET/ACRE)	CONTROL	15.7		
	200 # N	17.8	2.1	13.4
	400 # N	18.4	2.7	17.2
FOUR-YEAR GROSS BASAL AREA (SQ. FEET/ACRE)	CONTROL	15.2		
	200 # N	17.8	2.6	17.1
	400 # N	18.6	3.4	22.4
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	3.7		
	200 # N	4.4	0.7	18.9
	400 # N	4.7	1.0	27.0
FOUR-YEAR NET TOTAL VOLUME (CU. FEET/ACRE)	CONTROL	627		
	200 # N	722	95	15.2
	400 # N	721	94	15.0
FOUR-YEAR GROSS TOTAL VOLUME (CU. FEET/ACRE)	CONTROL	610		
	200 # N	723	113	18.5
	400 # N	726	116	19.0

	TRT	INC	FIRST TWO YEARS RESPONSE		SECOND TWO YEARS RESPONSE		
			DIFF	%	INC	DIFF	%
TWO-YEAR PERIODIC NET BASAL AREA (SQ. FEET/ACRE)	CON	9.7			6.0		
	200	10.8	1.1	11.3	6.9	0.9	15.0
	400	11.3	1.6	16.5	7.2	1.2	20.0
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ. FEET/ACRE)	CON	9.3			5.9		
	200	10.9	1.6	17.2	6.9	1.0	16.9
	400	11.3	2.0	21.5	7.3	1.4	23.7

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

SITE AND SOIL CHARACTERISTICS:

ELEVATION	3200 FEET
SLOPE	4 PERCENT
ASPECT	233 DEGREES
DOUGLAS-FIR SITE INDEX	71.7 FEET AT 50 YEARS
VEGETATION SERIES	GRAND FIR
PARENT MATERIAL	GLACIAL TILL
ASH DEPTH	NONE
SOIL DEPTH	SHALLOW (< 12 IN)
TOTAL NITROGEN	3115 PPM
TOTAL PHOSPHORUS	272 PPM
CARBON	2.03 PERCENT
MINERALIZABLE NITROGEN	68.0 PPM
COARSE FRAGMENTS	47.2 PERCENT
CORRECTED MINERALIZABLE N	36.0 PPM
TOTAL SOIL MOISTURE	11.2 INCHES

STAND CHARACTERISTICS:

INITIAL AGE	59 YEARS
INITIAL TREES PER ACRE	177 TREES/ACRE
INITIAL BASAL AREA	131.5 SQ. FEET/ACRE
INITIAL TOTAL VOLUME	3491 CU. FEET/ACRE
INITIAL CCF	137.8
RELATIVE DENSITY INDEX	38.4
MEAN DIAMETER	11.7 INCHES
SITE HEIGHT (40 TPA)	73.7 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	76.7 PERCENT
GRAND FIR	1.0 PERCENT
WESTERN LARCH	5.1 PERCENT
PONDEROSA PINE	17.3 PERCENT

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
FOUR-YEAR NET BASAL AREA (SQ. FEET/ACRE)	CONTROL	16.7		
	200 # N	16.0	-0.7	-4.2
	400 # N	14.3	-2.4	-14.4
FOUR-YEAR GROSS BASAL AREA (SQ. FEET/ACRE)	CONTROL	16.6		
	200 # N	16.0	-0.6	-3.6
	400 # N	14.9	-1.7	-10.2
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	5.1		
	200 # N	5.2	0.1	2.0
	400 # N	4.6	-0.5	-9.8
FOUR-YEAR NET TOTAL VOLUME (CU. FEET/ACRE)	CONTROL	748		
	200 # N	727	-21	-2.8
	400 # N	632	-116	-15.5
FOUR-YEAR GROSS TOTAL VOLUME (CU. FEET/ACRE)	CONTROL	741		
	200 # N	726	-15	-2.0
	400 # N	648	-93	-12.6
			FIRST TWO YEARS	
			RESPONSE	
	TRT	INC	DIFF	%
TWO-YEAR PERIODIC NET BASAL AREA (SQ. FEET/ACRE)	CON	10.0		
	200	10.4	0.4	4.0
	400	9.2	-0.8	-8.0
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ. FEET/ACRE)	CON	9.9		
	200	10.3	0.4	4.0
	400	9.3	-0.6	-6.1
			SECOND TWO YEARS	
			RESPONSE	
			INC	DIFF
				%

INSTALLATION 235 FISH CREEK
 REGION: MONTANA OWNERSHIP: CHAMPION
 LEGAL DESCRIPTION: T14N R24W SECTION 5 MERIDIAN: PRINCIPAL

SITE AND SOIL CHARACTERISTICS:

ELEVATION 3200 FEET
 SLOPE 15 PERCENT
 ASPECT 311 DEGREES
 DOUGLAS-FIR SITE INDEX 49.9 FEET AT 50 YEARS
 VEGETATION SERIES DOUGLAS-FIR
 PARENT MATERIAL ALLUVIUM
 ASH DEPTH NONE
 SOIL DEPTH MODERATE (12 TO 24 IN)
 TOTAL NITROGEN 3872 PPM
 TOTAL PHOSPHORUS 951 PPM
 CARBON 1.99 PERCENT
 MINERALIZABLE NITROGEN 52.3 PPM
 COARSE FRAGMENTS 47.3 PERCENT
 CORRECTED MINERALIZABLE N 27.0 PPM
 TOTAL SOIL MOISTURE 3.9 INCHES

STAND CHARACTERISTICS:

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

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
FOUR-YEAR NET BASAL AREA (SQ. FEET/ACRE)	CONTROL	7.0		
	200 # N	8.4	1.4	20.0
	400 # N	7.2	0.2	2.9
FOUR-YEAR GROSS BASAL AREA (SQ. FEET/ACRE)	CONTROL	8.8		
	200 # N	11.9	3.1	35.2
	400 # N	11.9	3.1	35.2
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	1.9		
	200 # N	3.0	1.1	57.9
	400 # N	2.8	0.9	47.4
FOUR-YEAR NET TOTAL VOLUME (CU. FEET/ACRE)	CONTROL	267		
	200 # N	330	63	23.6
	400 # N	268	1	0.4
FOUR-YEAR GROSS TOTAL VOLUME (CU. FEET/ACRE)	CONTROL	299		
	200 # N	399	100	33.4
	400 # N	365	66	22.1
			FIRST TWO YEARS	
			RESPONSE	
	TRT	INC	DIFF	%
TWO-YEAR PERIODIC NET BASAL AREA (SQ. FEET/ACRE)	CON	4.3		
	200	6.0	1.7	39.5
	400	5.6	1.3	30.2
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ. FEET/ACRE)	CON	4.2		
	200	5.9	1.7	40.5
	400	5.6	1.4	33.3
			SECOND TWO YEARS	
			RESPONSE	
			INC	DIFF
			%	
TWO-YEAR PERIODIC NET BASAL AREA (SQ. FEET/ACRE)	CON	4.3		
	200	6.0	2.7	-7.4
	400	5.6	1.6	-40.7
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ. FEET/ACRE)	CON	4.2		
	200	5.9	4.6	28.3
	400	5.6	6.4	39.1

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

SITE AND SOIL CHARACTERISTICS:

ELEVATION 3500 FEET
 SLOPE 35 PERCENT
 ASPECT 353 DEGREES
 DOUGLAS-FIR SITE INDEX 54.6 FEET AT 50 YEARS
 VEGETATION SERIES DOUGLAS-FIR
 PARENT MATERIAL VALLEY FILL
 ASH DEPTH NONE
 SOIL DEPTH SHALLOW (< 12 IN)
 TOTAL NITROGEN 4802 PPM
 TOTAL PHOSPHORUS 686 PPM
 CARBON 4.32 PERCENT
 MINERALIZABLE NITROGEN 74.7 PPM
 COARSE FRAGMENTS 30.5 PERCENT
 CORRECTED MINERALIZABLE N 51.7 PPM
 TOTAL SOIL MOISTURE 2.7 INCHES

STAND CHARACTERISTICS:

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

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
FOUR-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	9.3		
	200 # N	9.3	0.0	0.0
	400 # N	9.7	0.4	4.3
FOUR-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	9.4		
	200 # N	9.2	-0.2	-2.1
	400 # N	9.9	0.5	5.3
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	2.0		
	200 # N	2.2	0.2	10.0
	400 # N	2.2	0.2	10.0
FOUR-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	384		
	200 # N	378	-6	-1.6
	400 # N	412	28	7.3
FOUR-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	391		
	200 # N	372	-19	-4.9
	400 # N	416	25	6.4
			FIRST TWO YEARS	
			RESPONSE	
	TRT	INC	DIFF	%
TWO-YEAR PERIODIC NET BASAL AREA (SQ.FEET/ACRE)	CON	5.3		
	200	5.5	0.2	3.8
	400	5.6	0.3	5.7
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ.FEET/ACRE)	CON	5.4		
	200	5.3	-0.1	-1.9
	400	5.6	0.2	3.7
			SECOND TWO YEARS	
			RESPONSE	
	INC	DIFF	%	
TWO-YEAR PERIODIC NET BASAL AREA (SQ.FEET/ACRE)	CON	4.0		
	200	3.9	-0.1	-2.5
	400	4.2	0.2	5.0
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ.FEET/ACRE)	CON	4.0		
	200	3.9	-0.1	-2.5
	400	4.3	0.3	7.5

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

SITE AND SOIL CHARACTERISTICS:

ELEVATION	4400 FEET
SLOPE	1 PERCENT
ASPECT	210 DEGREES
DOUGLAS-FIR SITE INDEX	56.4 FEET AT 50 YEARS
VEGETATION SERIES	DOUGLAS-FIR
PARENT MATERIAL	GLACIAL TILL
ASH DEPTH	NONE
SOIL DEPTH	MODERATE (12 TO 24 IN)
TOTAL NITROGEN	3586 PPM
TOTAL PHOSPHORUS	558 PPM
CARBON	2.90 PERCENT
MINERALIZABLE NITROGEN	66.2 PPM
COARSE FRAGMENTS	50.0 PERCENT
CORRECTED MINERALIZABLE N	33.2 PPM
TOTAL SOIL MOISTURE	1.5 INCHES

STAND CHARACTERISTICS:

INITIAL AGE	90 YEARS
INITIAL TREES PER ACRE	232 TREES/ACRE
INITIAL BASAL AREA	148.5 SQ. FEET/ACRE
INITIAL TOTAL VOLUME	4055 CU. FEET/ACRE
INITIAL CCF	160.7
RELATIVE DENSITY INDEX	44.9
MEAN DIAMETER	10.9 INCHES
SITE HEIGHT (40 TPA)	79.8 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	97.3 PERCENT
PONDEROSA PINE	2.7 PERCENT

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
FOUR-YEAR NET BASAL AREA (SQ. FEET/ACRE)	CONTROL	13.0		
	200 # N	12.8	-0.2	-1.5
	400 # N	8.0	-5.0	-38.5
FOUR-YEAR GROSS BASAL AREA (SQ. FEET/ACRE)	CONTROL	12.5		
	200 # N	12.8	0.3	2.4
	400 # N	10.7	-1.8	-14.4
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	1.7		
	200 # N	2.3	0.6	35.3
	400 # N	2.0	0.3	17.6
FOUR-YEAR NET TOTAL VOLUME (CU. FEET/ACRE)	CONTROL	429		
	200 # N	468	39	9.1
	400 # N	317	-112	-26.1
FOUR-YEAR GROSS TOTAL VOLUME (CU. FEET/ACRE)	CONTROL	410		
	200 # N	471	61	14.9
	400 # N	409	-1	-0.2

	TRT	FIRST TWO YEARS				SECOND TWO YEARS		
		INC	RESPONSE		INC	RESPONSE		
			DIFP	%		DIFP	%	
TWO-YEAR PERIODIC NET BASAL AREA (SQ. FEET/ACRE)	CON	7.7			5.3			
	200	7.4	-0.3	-3.9	5.3	0.0	0.0	
	400	3.8	-3.9	-50.6	4.2	-1.1	-20.8	
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ. FEET/ACRE)	CON	7.3			5.1			
	200	7.6	0.3	4.1	5.3	0.2	3.9	
	400	6.5	-0.8	-11.0	4.2	-0.9	-17.6	

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

SITE AND SOIL CHARACTERISTICS:

ELEVATION 3500 FEET
 SLOPE 55 PERCENT
 ASPECT 292 DEGREES
 DOUGLAS-FIR SITE INDEX 70.9 FEET AT 50 YEARS
 VEGETATION SERIES GRAND FIR
 PARENT MATERIAL VALLEY FILL
 ASH DEPTH NONE
 SOIL DEPTH SHALLOW (< 12 IN)
 TOTAL NITROGEN 2630 PPM
 TOTAL PHOSPHORUS 1270 PPM
 CARBON 1.89 PERCENT
 MINERALIZABLE NITROGEN 67.7 PPM
 COARSE FRAGMENTS 45.4 PERCENT
 CORRECTED MINERALIZABLE N 37.3 PPM
 TOTAL SOIL MOISTURE 3.3 INCHES

STAND CHARACTERISTICS:

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

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
FOUR-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL 200 # N 400 # N	11.5 16.2 15.7		
			4.7 4.2	40.9 36.5
FOUR-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL 200 # N 400 # N	12.1 16.1 15.8		
			4.0 3.7	33.1 30.6
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL 200 # N 400 # N	3.8 4.2 4.6		
			0.4 0.8	10.5 21.1
FOUR-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL 200 # N 400 # N	211 328 347		
			117 136	55.5 64.5
FOUR-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL 200 # N 400 # N	235 326 350		
			91 115	38.7 48.9
			RESPONSE	
			FIRST TWO YEARS	
			SECOND TWO YEARS	
			RESPONSE	
			RESPONSE	
			TRT	INC
			DIFF	%
			INC	DIFF
			%	
TWO-YEAR PERIODIC NET BASAL AREA (SQ.FEET/ACRE)	CON 200 400	7.0 9.5 8.9	2.5 1.9	35.7 27.1
			4.5 6.6 6.8	46.7 46.7 51.1
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ.FEET/ACRE)	CON 200 400	7.3 9.5 8.9	2.2 1.6	30.1 21.9
			4.8 6.6 6.9	37.5 37.5 43.8

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

SITE AND SOIL CHARACTERISTICS:

 ELEVATION 3700 FEET
 SLOPE 45 PERCENT
 ASPECT 301 DEGREES
 DOUGLAS-FIR SITE INDEX 71.3 FEET AT 50 YEARS
 VEGETATION SERIES DOUGLAS-FIR
 PARENT MATERIAL BASALT
 ASH DEPTH NONE
 SOIL DEPTH MODERATE (12 TO 24 IN)
 TOTAL NITROGEN 3014 PPM
 TOTAL PHOSPHORUS 860 PPM
 CARBON 3.78 PERCENT
 MINERALIZABLE NITROGEN 71.3 PPM
 COARSE FRAGMENTS 31.2 PERCENT
 CORRECTED MINERALIZABLE N 48.0 PPM
 TOTAL SOIL MOISTURE 13.0 INCHES

STAND CHARACTERISTICS:

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

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE				
			DIFFERENCE	% OF CONTROL			
FOUR-YEAR NET BASAL AREA (SQ. FEET/ACRE)	CONTROL	12.2					
	200 # N	15.4	3.2	26.2			
	400 # N	5.5	-6.7	-54.9			
FOUR-YEAR GROSS BASAL AREA (SQ. FEET/ACRE)	CONTROL	17.1					
	200 # N	17.0	-0.1	-0.6			
	400 # N	17.2	0.1	0.6			
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	3.3					
	200 # N	3.6	0.3	9.1			
	400 # N	4.0	0.7	21.2			
FOUR-YEAR NET TOTAL VOLUME (CU. FEET/ACRE)	CONTROL	587					
	200 # N	764	177	30.2			
	400 # N	355	-232	-39.5			
FOUR-YEAR GROSS TOTAL VOLUME (CU. FEET/ACRE)	CONTROL	739					
	200 # N	812	73	9.9			
	400 # N	835	96	13.0			
			FIRST TWO YEARS	SECOND TWO YEARS			
			RESPONSE				
	TRT	INC	DIFF	%	INC	DIFF	%
TWO-YEAR PERIODIC NET BASAL AREA (SQ. FEET/ACRE)	CON	4.0			8.2		
	200	8.4	4.4	110.0	6.9	-1.3	-15.9
	400	9.7	5.7	142.5	-4.1	-12.3	-150.0
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ. FEET/ACRE)	CON	8.6			8.4		
	200	8.5	-0.1	-1.2	8.5	0.1	1.2
	400	9.2	0.6	7.0	8.0	-0.4	-4.8

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

SITE AND SOIL CHARACTERISTICS:

ELEVATION 3500 FEET
 SLOPE 15 PERCENT
 ASPECT 248 DEGREES
 DOUGLAS-FIR SITE INDEX 88.1 FEET AT 50 YEARS
 VEGETATION SERIES WESTERN REDCEDAR
 PARENT MATERIAL ASH OVER METASEDIMENT
 ASH DEPTH MEDIUM (3 TO 12 IN)
 SOIL DEPTH DEEP (> 24 IN)
 TOTAL NITROGEN 1118 PPM
 TOTAL PHOSPHORUS 568 PPM
 CARBON 2.42 PERCENT
 MINERALIZABLE NITROGEN 46.5 PPM
 COARSE FRAGMENTS 9.8 PERCENT
 CORRECTED MINERALIZABLE N 42.0 PPM
 TOTAL SOIL MOISTURE 21.0 INCHES

STAND CHARACTERISTICS:

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

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
FOUR-YEAR NET BASAL AREA (SQ. FEET/ACRE)	CONTROL	25.4		
	200 # N	31.3	5.9	23.2
	400 # N	30.9	5.5	21.7
FOUR-YEAR GROSS BASAL AREA (SQ. FEET/ACRE)	CONTROL	24.8		
	200 # N	33.1	8.3	33.5
	400 # N	32.1	7.3	29.4
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	6.3		
	200 # N	7.0	0.7	11.1
	400 # N	6.7	0.4	6.3
FOUR-YEAR NET TOTAL VOLUME (CU. FEET/ACRE)	CONTROL	1015		
	200 # N	1171	156	15.4
	400 # N	1192	177	17.4
FOUR-YEAR GROSS TOTAL VOLUME (CU. FEET/ACRE)	CONTROL	996		
	200 # N	1208	212	21.3
	400 # N	1211	215	21.6
			FIRST TWO YEARS	
			RESPONSE	
	TRT	INC	DIFF	%
TWO-YEAR PERIODIC NET BASAL AREA (SQ. FEET/ACRE)	CON	12.6		
	200	14.8	2.2	17.5
	400	16.6	4.0	31.7
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ. FEET/ACRE)	CON	12.2		
	200	16.6	4.4	36.1
	400	16.5	4.3	35.2
			SECOND TWO YEARS	
			RESPONSE	
			INC	DIFF
			%	
TWO-YEAR PERIODIC NET BASAL AREA (SQ. FEET/ACRE)	CON	12.8		
	200	16.5	3.7	28.9
	400	14.3	1.5	11.7
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ. FEET/ACRE)	CON	12.7		
	200	16.4	3.7	29.1
	400	15.6	2.9	22.8

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

SITE AND SOIL CHARACTERISTICS:

ELEVATION 3300 FEET
 SLOPE 3 PERCENT
 ASPECT 44 DEGREES
 DOUGLAS-FIR SITE INDEX 61.9 FEET AT 50 YEARS
 VEGETATION SERIES DOUGLAS-FIR
 PARENT MATERIAL GLACIAL TILL
 ASH DEPTH DEEP { > 12 IN)
 SOIL DEPTH DEEP { > 24 IN)
 TOTAL NITROGEN 385 PPM
 TOTAL PHOSPHORUS 1132 PPM
 CARBON 1.05 PERCENT
 MINERALIZABLE NITROGEN 24.3 PPM
 COARSE FRAGMENTS 5.7 PERCENT
 CORRECTED MINERALIZABLE N 22.5 PPM
 TOTAL SOIL MOISTURE 18.0 INCHES

STAND CHARACTERISTICS:

INITIAL AGE 72 YEARS
 INITIAL TREES PER ACRE 303 TREES/ACRE
 INITIAL BASAL AREA 113.7 SQ.FEET/ACRE
 INITIAL TOTAL VOLUME 2618 CU.FEET/ACRE
 INITIAL CCF 136.9
 RELATIVE DENSITY INDEX 39.5
 MEAN DIAMETER 8.3 INCHES
 SITE HEIGHT (40 TPA) 63.3 FEET
 SPECIES COMPOSITION (% OF TOTAL BA)
 DOUGLAS-FIR 88.9 PERCENT
 WESTERN LARCH 0.4 PERCENT
 LODGEPOLE PINE 0.9 PERCENT
 PONDEROSA PINE 9.8 PERCENT

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE				
			DIFFERENCE	% OF CONTROL			
FOUR-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	20.6					
	200 # N	19.1	-1.5	-7.3			
	400 # N	34.0	13.4	65.0			
FOUR-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	19.8					
	200 # N	23.6	3.8	19.2			
	400 # N	33.7	13.9	70.2			
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	4.2					
	200 # N	4.5	0.3	7.1			
	400 # N	5.1	0.9	21.4			
FOUR-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	652					
	200 # N	621	-31	-4.8			
	400 # N	1004	352	54.0			
FOUR-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	626					
	200 # N	729	103	16.5			
	400 # N	996	370	59.1			
			FIRST TWO YEARS	SECOND TWO YEARS			
			RESPONSE	RESPONSE			
	TRT	INC	DIFF	%	INC	DIFF	%
TWO-YEAR PERIODIC NET BASAL AREA (SQ.FEET/ACRE)	CON	9.6			10.9		
	200	9.5	-0.1	-1.0	9.7	-1.2	-11.0
	400	15.9	6.3	65.6	18.1	7.2	66.1
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ.FEET/ACRE)	CON	9.4			10.4		
	200	11.4	2.0	21.3	12.3	1.9	18.3
	400	15.9	6.5	69.1	17.9	7.5	72.1

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

SITE AND SOIL CHARACTERISTICS:

ELEVATION	4500 FEET
SLOPE	19 PERCENT
ASPECT	271 DEGREES
DOUGLAS-FIR SITE INDEX	47.7 FEET AT 50 YEARS
VEGETATION SERIES	DOUGLAS-FIR
PARENT MATERIAL	GLACIAL TILL
ASH DEPTH	SHALLOW (< 3 IN)
SOIL DEPTH	MODERATE (12 TO 24 IN)
TOTAL NITROGEN	700 PPM
TOTAL PHOSPHORUS	876 PPM
CARBON	1.44 PERCENT
MINERALIZABLE NITROGEN	52.2 PPM
COARSE FRAGMENTS	28.6 PERCENT
CORRECTED MINERALIZABLE N	37.3 PPM
TOTAL SOIL MOISTURE	7.5 INCHES

STAND CHARACTERISTICS:

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

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE				
			DIFFERENCE	% OF CONTROL			
FOUR-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL 200 # N 400 # N	12.2 15.5 17.9	3.3 5.7	27.0 46.7			
FOUR-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL 200 # N 400 # N	12.1 15.4 20.4	3.3 8.3	27.3 68.6			
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL 200 # N 400 # N	1.8 2.1 2.7	0.3 0.9	16.7 50.0			
FOUR-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL 200 # N 400 # N	395 455 578	60 183	15.2 46.3			
FOUR-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL 200 # N 400 # N	390 450 631	60 241	15.4 61.8			
		FIRST TWO YEARS	SECOND TWO YEARS				
		RESPONSE		RESPONSE			
	TRT	INC	DIFF	%	INC	DIFF	%
TWO-YEAR PERIODIC NET BASAL AREA (SQ.FEET/ACRE)	CON 200 400	6.0 7.9 8.5	1.9 2.5	31.7 41.7	6.2 7.6 9.4	1.4 3.2	22.6 51.6
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ.FEET/ACRE)	CON 200 400	5.9 7.7 10.6	1.8 4.7	30.5 79.7	6.1 7.7 9.8	1.6 3.7	26.2 60.7

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

SITE AND SOIL CHARACTERISTICS:

ELEVATION	3300 FEET
SLOPE	18 PERCENT
ASPECT	304 DEGREES
DOUGLAS-FIR SITE INDEX	61.5 FEET AT 50 YEARS
VEGETATION SERIES	DOUGLAS-FIR
PARENT MATERIAL	GLACIAL TILL
ASH DEPTH	MEDIUM (3 TO 12 IN)
SOIL DEPTH	MODERATE (12 TO 24 IN)
TOTAL NITROGEN	1239 PPM
TOTAL PHOSPHORUS	1445 PPM
CARBON	2.94 PERCENT
MINERALIZABLE NITROGEN	81.7 PPM
COARSE FRAGMENTS	26.6 PERCENT
CORRECTED MINERALIZABLE N	60.2 PPM
TOTAL SOIL MOISTURE	7.5 INCHES

STAND CHARACTERISTICS:

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

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
FOUR-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	9.8		
	200 # N	16.7	6.9	70.4
	400 # N	14.3	4.5	45.9
FOUR-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	15.7		
	200 # N	17.9	2.2	14.0
	400 # N	18.0	2.3	14.6
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	4.0		
	200 # N	4.7	0.7	17.5
	400 # N	4.3	0.3	7.5
FOUR-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	460		
	200 # N	647	187	40.7
	400 # N	550	90	19.6
FOUR-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	603		
	200 # N	675	72	11.9
	400 # N	633	30	5.0
			FIRST TWO YEARS	
			RESPONSE	
	TRT	INC	DIFF	%
TWO-YEAR PERIODIC NET BASAL AREA (SQ.FEET/ACRE)	CON	8.3		
	200	7.5	-0.8	-9.6
	400	8.9	0.6	7.2
			SECOND TWO YEARS	
			RESPONSE	
			INC	DIFF
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ.FEET/ACRE)	CON	8.3	7.4	
	200	8.8	9.1	1.7 23.0
	400	8.8	9.3	1.9 25.7

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

SITE AND SOIL CHARACTERISTICS:

ELEVATION 5900 FEET
 SLOPE 35 PERCENT
 ASPECT 292 DEGREES
 DOUGLAS-FIR SITE INDEX 62.1 FEET AT 50 YEARS
 VEGETATION SERIES DOUGLAS-FIR
 PARENT MATERIAL GRANITE
 ASH DEPTH NONE
 SOIL DEPTH DEEP (> 24 IN)
 TOTAL NITROGEN 3837 PPM
 TOTAL PHOSPHORUS 537 PPM
 CARBON 2.96 PERCENT
 MINERALIZABLE NITROGEN 72.0 PPM
 COARSE FRAGMENTS 23.0 PERCENT
 CORRECTED MINERALIZABLE N 55.5 PPM
 TOTAL SOIL MOISTURE 3.8 INCHES

STAND CHARACTERISTICS:

INITIAL AGE 90 YEARS
 INITIAL TREES PER ACRE 207 TREES/ACRE
 INITIAL BASAL AREA 272.2 SQ. FEET/ACRE
 INITIAL TOTAL VOLUME 8320 CU. FEET/ACRE
 INITIAL CCF 248.3
 RELATIVE DENSITY INDEX 68.6
 MEAN DIAMETER 16.1 INCHES
 SITE HEIGHT (40 TPA) 93.9 FEET
 SPECIES COMPOSITION (% OF TOTAL BA)
 DOUGLAS-FIR 100.0 PERCENT

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
FOUR-YEAR NET BASAL AREA (SQ. FEET/ACRE)	CONTROL	10.5		
	200 # N	13.8	3.3	31.4
	400 # N	12.9	2.4	22.9
FOUR-YEAR GROSS BASAL AREA (SQ. FEET/ACRE)	CONTROL	12.2		
	200 # N	13.6	1.4	11.5
	400 # N	12.7	0.5	4.1
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	2.9		
	200 # N	3.5	0.6	20.7
	400 # N	3.2	0.3	10.3
FOUR-YEAR NET TOTAL VOLUME (CU. FEET/ACRE)	CONTROL	680		
	200 # N	776	96	14.1
	400 # N	757	77	11.3
FOUR-YEAR GROSS TOTAL VOLUME (CU. FEET/ACRE)	CONTROL	741		
	200 # N	764	23	3.1
	400 # N	751	10	1.3
			FIRST TWO YEARS	
			RESPONSE	
	TRT	INC	DIFF	%
TWO-YEAR PERIODIC NET BASAL AREA (SQ. FEET/ACRE)	CON	4.6		
	200	6.0	1.4	30.4
	400	5.6	1.0	21.7
			SECOND TWO YEARS	
			RESPONSE	
	INC	DIFF	%	
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ. FEET/ACRE)	CON	5.7		
	200	5.8	0.1	1.8
	400	5.5	-0.2	-3.5
			6.5	
			7.7	18.5
			7.2	10.8

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

SITE AND SOIL CHARACTERISTICS:

ELEVATION 5000 FEET
 SLOPE 18 PERCENT
 ASPECT 54 DEGREES
 DOUGLAS-FIR SITE INDEX 62.3 FEET AT 50 YEARS
 VEGETATION SERIES DOUGLAS-FIR
 PARENT MATERIAL BASALT
 ASH DEPTH NONE
 SOIL DEPTH MODERATE (12 TO 24 IN)
 TOTAL NITROGEN 4220 PPM
 TOTAL PHOSPHORUS 542 PPM
 CARBON 2.92 PERCENT
 MINERALIZABLE NITROGEN 68.7 PPM
 COARSE FRAGMENTS 29.1 PERCENT
 CORRECTED MINERALIZABLE N 48.5 PPM
 TOTAL SOIL MOISTURE 4.1 INCHES

STAND CHARACTERISTICS:

INITIAL AGE 52 YEARS
 INITIAL TREES PER ACRE 252 TREES/ACRE
 INITIAL BASAL AREA 191.7 SQ.FEET/ACRE
 INITIAL TOTAL VOLUME 3788 CU.FEET/ACRE
 INITIAL CCF 199.8
 RELATIVE DENSITY INDEX 55.1
 MEAN DIAMETER 12.2 INCHES
 SITE HEIGHT (40 TPA) 58.8 FEET
 SPECIES COMPOSITION (% OF TOTAL BA)
 DOUGLAS-FIR 100.0 PERCENT

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE				
			DIFFERENCE	% OF CONTROL			
FOUR-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL 200 # N 400 # N	6.0 9.9 19.9	3.9 13.9	65.0 231.7			
FOUR-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL 200 # N 400 # N	13.7 16.7 18.4	3.0 4.7	21.9 34.3			
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL 200 # N 400 # N	3.0 3.3 4.6	0.3 1.6	10.0 53.3			
FOUR-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL 200 # N 400 # N	351 447 698	96 347	27.4 98.9			
FOUR-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL 200 # N 400 # N	510 569 652	59 142	11.6 27.8			
		FIRST TWO YEARS RESPONSE		SECOND TWO YEARS RESPONSE			
	TRT	INC	DIFF	%	INC	DIFF	%
TWO-YEAR PERIODIC NET BASAL AREA (SQ.FEET/ACRE)	CON 200 400	5.5 8.3 9.8	2.8 4.3	50.9 78.2	0.4 1.6 10.3	1.2 9.92	300.0 475.0
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ.FEET/ACRE)	CON 200 400	6.6 8.3 9.0	1.7 2.4	25.8 36.4	7.1 8.4 9.4	1.3 2.3	18.3 32.4

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

SITE AND SOIL CHARACTERISTICS:

ELEVATION	1500 FEET
SLOPE	38 PERCENT
ASPECT	360 DEGREES
DOUGLAS-FIR SITE INDEX	92.0 FEET AT 50 YEARS
VEGETATION SERIES	DOUGLAS-FIR
PARENT MATERIAL	GLACIAL TILL
ASH DEPTH	SHALLOW (< 3 IN)
SOIL DEPTH	DEEP (> 24 IN)
TOTAL NITROGEN	3273 PPM
TOTAL PHOSPHORUS	1242 PPM
CARBON	2.89 PERCENT
MINERALIZABLE NITROGEN	59.3 PPM
COARSE FRAGMENTS	31.0 PERCENT
CORRECTED MINERALIZABLE N	40.7 PPM
TOTAL SOIL MOISTURE	4.5 INCHES

STAND CHARACTERISTICS:

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

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE		
			DIFFERENCE	% OF CONTROL	
FOUR-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	16.3			
	200 # N	20.9	4.6	28.2	
	400 # N	22.0	5.7	35.0	
FOUR-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	16.3			
	200 # N	20.9	4.6	28.2	
	400 # N	22.4	6.1	37.4	
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	5.4			
	200 # N	6.0	0.6	11.1	
	400 # N	5.6	0.2	3.7	
FOUR-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	613			
	200 # N	714	101	16.5	
	400 # N	668	55	9.0	
FOUR-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	611			
	200 # N	713	102	16.7	
	400 # N	674	63	10.3	
	TRT	FIRST TWO YEARS		SECOND TWO YEARS	
		INC	RESPONSE	INC	RESPONSE
		DIFF	%	DIFF	%
TWO-YEAR PERIODIC NET BASAL AREA (SQ.FEET/ACRE)	CON	9.6		6.7	
	200	12.4	2.8	29.2	8.5
	400	13.5	3.9	40.6	1.8
					26.9
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ.FEET/ACRE)	CON	9.6		6.7	
	200	12.4	2.8	29.2	8.4
	400	13.5	3.9	40.6	1.7
					25.4
					34.3

INSTALLATION 247 PARK RAPIDS
 REGION: NORTHEAST WASHINGTON OWNERSHIP: WASHINGTON DNR
 LEGAL DESCRIPTION: T35N R40E SECTION 24 MERIDIAN: WILLAMETTE

SITE AND SOIL CHARACTERISTICS:

ELEVATION	2900 FEET
SLOPE	13 PERCENT
ASPECT	93 DEGREES
DOUGLAS-FIR SITE INDEX	65.6 FEET AT 50 YEARS
VEGETATION SERIES	DOUGLAS-FIR
PARENT MATERIAL	GLACIAL TILL
ASH DEPTH	MEDIUM (3 TO 12 IN)
SOIL DEPTH	DEEP (> 24 IN)
TOTAL NITROGEN	1708 PPM
TOTAL PHOSPHORUS	1596 PPM
CARBON	1.89 PERCENT
MINERALIZABLE NITROGEN	54.2 PPM
COARSE FRAGMENTS	24.1 PERCENT
CORRECTED MINERALIZABLE N	41.2 PPM
TOTAL SOIL MOISTURE	8.0 INCHES

STAND CHARACTERISTICS:

INITIAL AGE	76 YEARS
INITIAL TREES PER ACRE	213 TREES/ACRE
INITIAL BASAL AREA	137.4 SQ-FEET/ACRE
INITIAL TOTAL VOLUME	3790 CU-FEET/ACRE
INITIAL CCF	149.9
RELATIVE DENSITY INDEX	41.7
MEAN DIAMETER	10.9 INCHES
SITE HEIGHT (40 TPA)	79.5 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	87.0 PERCENT
WESTERN LARCH	8.6 PERCENT
LODGEPOLE PINE	1.6 PERCENT
PONDEROSA PINE	2.8 PERCENT

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE		
			DIFFERENCE	% OF CONTROL	
FOUR-YEAR NET BASAL AREA (SQ-FEET/ACRE)	CONTROL	14.7			
	200 # N	14.3	-0.4	-2.7	
	400 # N	8.8	-5.9	-40.1	
FOUR-YEAR GROSS BASAL AREA (SQ-FEET/ACRE)	CONTROL	15.9			
	200 # N	20.2	4.3	27.0	
	400 # N	18.1	2.2	13.8	
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	2.9			
	200 # N	4.2	1.3	44.8	
	400 # N	3.6	0.7	24.1	
FOUR-YEAR NET TOTAL VOLUME (CU-FEET/ACRE)	CONTROL	554			
	200 # N	575	21	3.8	
	400 # N	433	-121	-21.8	
FOUR-YEAR GROSS TOTAL VOLUME (CU-FEET/ACRE)	CONTROL	578			
	200 # N	728	150	26.0	
	400 # N	662	84	14.5	
			FIRST TWO YEARS	SECOND TWO YEARS	
			RESPONSE		
	TRT	INC	DIFF	%	
TWO-YEAR PERIODIC NET BASAL AREA (SQ-FEET/ACRE)	CON	9.2			
	200	12.0	2.8	30.4	
	400	11.1	1.9	20.7	
			INC	DIFF	%
			5.5		
			2.3	-3.2	-58.2
			-2.3	-7.8	-141.8
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ-FEET/ACRE)	CON	9.3			
	200	12.0	2.7	29.0	
	400	10.9	1.6	17.2	
			6.6		
			8.2	1.6	24.2
			7.2	0.6	9.1

INSTALLATION 248 QUINEY FLAT
 REGION: CENTRAL WASHINGTON OWNERSHIP: BOISE CASCADE
 LEGAL DESCRIPTION: T5N R14E SECTION 1 MERIDIAN: WILLAMETTE

SITE AND SOIL CHARACTERISTICS:

ELEVATION	2500 FEET
SLOPE	5 PERCENT
ASPECT	164 DEGREES
DOUGLAS-FIR SITE INDEX	66.0 FEET AT 50 YEARS
VEGETATION SERIES	DOUGLAS-FIR
PARENT MATERIAL	BASALT
ASH DEPTH	NONE
SOIL DEPTH	DEEP (> 24 IN)
TOTAL NITROGEN	1185 PPM
TOTAL PHOSPHORUS	740 PPM
CARBON	1.09 PERCENT
MINERALIZABLE NITROGEN	31.0 PPM
COARSE FRAGMENTS	11.1 PERCENT
CORRECTED MINERALIZABLE N	27.3 PPM
TOTAL SOIL MOISTURE	12.0 INCHES

STAND CHARACTERISTICS:

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

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE					
			DIFFERENCE	% OF CONTROL				
FOUR-YEAR NET BASAL AREA (SQ. FEET/ACRE)	CONTROL	24.8						
	200 # N	29.2	4.4	17.7				
	400 # N	25.4	0.6	2.4				
FOUR-YEAR GROSS BASAL AREA (SQ. FEET/ACRE)	CONTROL	24.8						
	200 # N	29.2	4.4	17.7				
	400 # N	25.3	0.5	2.0				
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	4.9						
	200 # N	5.7	0.8	16.3				
	400 # N	5.7	0.8	16.3				
FOUR-YEAR NET TOTAL VOLUME (CU. FEET/ACRE)	CONTROL	810						
	200 # N	950	140	17.3				
	400 # N	861	51	6.3				
FOUR-YEAR GROSS TOTAL VOLUME (CU. FEET/ACRE)	CONTROL	811						
	200 # N	949	138	17.0				
	400 # N	858	47	5.8				
	FIRST TWO YEARS				SECOND TWO YEARS			
			RESPONSE				RESPONSE	
	TRT	INC	DIFF	%	INC	DIFF	%	
TWO-YEAR PERIODIC NET BASAL AREA (SQ. FEET/ACRE)	CON	13.8			11.0			
	200	16.3	2.5	18.1	12.9	1.9	17.3	
	400	15.0	1.2	8.7	10.4	-0.6	-5.5	
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ. FEET/ACRE)	CON	13.8			11.0			
	200	16.4	2.6	18.8	12.8	1.8	16.4	
	400	15.0	1.2	8.7	10.3	-0.7	-6.4	

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

SITE AND SOIL CHARACTERISTICS:

ELEVATION	3000 FEET
SLOPE	4 PERCENT
ASPECT	215 DEGREES
DOUGLAS-FIR SITE INDEX	77.5 FEET AT 50 YEARS
VEGETATION SERIES	GRAND FIR
PARENT MATERIAL	BASALT
ASH DEPTH	NONE
SOIL DEPTH	DEEP (> 24 IN)
TOTAL NITROGEN	576 PPM
TOTAL PHOSPHORUS	1020 PPM
CARBON	1.42 PERCENT
MINERALIZABLE NITROGEN	42.0 PPM
COARSE FRAGMENTS	12.3 PERCENT
CORRECTED MINERALIZABLE N	36.8 PPM
TOTAL SOIL MOISTURE	10.4 INCHES

STAND CHARACTERISTICS:

INITIAL AGE	77 YEARS
INITIAL TREES PER ACRE	202 TREES/ACRE
INITIAL BASAL AREA	172.3 SQ.FEET/ACRE
INITIAL TOTAL VOLUME	5573 CU.FEET/ACRE
INITIAL CCF	174.3
RELATIVE DENSITY INDEX	48.5
MEAN DIAMETER	12.7 INCHES
SITE HEIGHT (40 TPA)	98.8 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	98.4 PERCENT
PONDEROSA PINE	1.6 PERCENT

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE				
			DIFFERENCE	% OF CONTROL			
FOUR-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL 200 # N 400 # N	19.8 25.7 24.5	5.9 4.7	29.8 23.7			
FOUR-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL 200 # N 400 # N	20.2 25.6 24.8	5.4 4.6	26.7 22.8			
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL 200 # N 400 # N	2.9 4.2 4.1	1.3 1.2	44.8 41.4			
FOUR-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL 200 # N 400 # N	831 1062 1042	231 211	27.8 25.4			
FOUR-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL 200 # N 400 # N	838 1057 1051	219 213	26.1 25.4			
		FIRST TWO YEARS	SECOND TWO YEARS				
		RESPONSE		RESPONSE			
	TBT	INC	DIFF	%	INC	DIFF	%
TWO-YEAR PERIODIC NET BASAL AREA (SQ.FEET/ACRE)	CON 200 400	11.1 14.6 13.6	3.5 2.5	31.5 22.5	8.7 11.1 10.8	2.4 2.1	27.6 24.1
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ.FEET/ACRE)	CON 200 400	11.2 14.5 13.7	3.3 2.5	29.5 22.3	9.0 11.1 11.0	2.1 2.0	23.3 22.2

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

SITE AND SOIL CHARACTERISTICS:

ELEVATION	3600 FEET
SLOPE	35 PERCENT
ASPECT	204 DEGREES
DOUGLAS-FIR SITE INDEX	83.2 FEET AT 50 YEARS
VEGETATION SERIES	WESTERN REDCEDAR
PARENT MATERIAL	ASH OVER METASEDIMENT
ASH DEPTH	MEDIUM (3 TO 12 IN)
SOIL DEPTH	DEEP (> 24 IN)
TOTAL NITROGEN	1036 PPM
TOTAL PHOSPHORUS	515 PPM
CARBON	2.18 PERCENT
MINERALIZABLE NITROGEN	49.8 PPM
COARSE FRAGMENTS	13.7 PERCENT
CORRECTED MINERALIZABLE N	43.0 PPM
TOTAL SOIL MOISTURE	22.4 INCHES

STAND CHARACTERISTICS:

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

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
FOUR-YEAR NET BASAL AREA (SQ. FEET/ACRE)	CONTROL	31.0		
	200 # N	38.5	7.5	24.2
	400 # N	49.8	18.8	60.6
FOUR-YEAR GROSS BASAL AREA (SQ. FEET/ACRE)	CONTROL	32.1		
	200 # N	38.8	6.7	20.9
	400 # N	51.2	19.1	59.5
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	6.3		
	200 # N	6.8	0.5	7.9
	400 # N	7.3	1.0	15.9
FOUR-YEAR NET TOTAL VOLUME (CU. FEET/ACRE)	CONTROL	947		
	200 # N	1052	105	11.1
	400 # N	1336	389	41.1
FOUR-YEAR GROSS TOTAL VOLUME (CU. FEET/ACRE)	CONTROL	961		
	200 # N	1052	91	9.5
	400 # N	1349	388	40.4
	FIRST TWO YEARS			
	RESPONSE			
	TRT	INC	DIFF	%
TWO-YEAR PERIODIC NET BASAL AREA (SQ. FEET/ACRE)	CON	16.9		
	200	20.4	3.5	20.7
	400	27.7	10.8	63.9
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ. FEET/ACRE)	CON	16.9		
	200	20.8	3.9	23.1
	400	27.6	10.7	63.3
	SECOND TWO YEARS			
	RESPONSE			
	INC	DIFF	%	
TWO-YEAR PERIODIC NET BASAL AREA (SQ. FEET/ACRE)		14.1		
		18.0	3.9	27.7
		22.2	8.1	57.4
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ. FEET/ACRE)		15.2		
		17.9	2.7	17.8
		23.6	8.4	55.3

INSTALLATION 251 GAME CREEK
 REGION: MONTANA OWNERSHIP: CHAMPION
 LEGAL DESCRIPTION: T13N R16W SECTION 30 MERIDIAN: PRINCIPAL

SITE AND SOIL CHARACTERISTICS:

ELEVATION 4700 FEET
 SLOPE 40 PERCENT
 ASPECT 124 DEGREES
 DOUGLAS-FIR SITE INDEX 63.9 FEET AT 50 YEARS
 VEGETATION SERIES DOUGLAS-FIR
 PARENT MATERIAL COLLUVIUM
 ASH DEPTH NONE
 SOIL DEPTH MODERATE (12 TO 24 IN)
 TOTAL NITROGEN 1233 PPM
 TOTAL PHOSPHORUS 441 PPM
 CARBON 2.76 PERCENT
 MINERALIZABLE NITROGEN 84.7 PPM
 COARSE FRAGMENTS 40.2 PERCENT
 CORRECTED MINERALIZABLE N 51.0 PPM
 TOTAL SOIL MOISTURE 3.8 INCHES

STAND CHARACTERISTICS:

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

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE					
			DIFFERENCE	% OF CONTROL				
FOUR-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	8.9						
	200 # N	10.8	1.9	21.3				
	400 # N	11.4	2.5	28.1				
FOUR-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	8.9						
	200 # N	10.8	1.9	21.3				
	400 # N	11.1	2.2	24.7				
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	2.0						
	200 # N	2.3	0.3	15.0				
	400 # N	2.0	0.0	0.0				
FOUR-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	309						
	200 # N	387	78	25.2				
	400 # N	360	51	16.5				
FOUR-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	306						
	200 # N	385	79	25.8				
	400 # N	351	45	14.7				
			FIRST TWO YEARS		SECOND TWO YEARS			
			RESPONSE			RESPONSE		
	TRT	INC	DIFF	%	INC	DIFF	%	
TWO-YEAR PERIODIC NET BASAL AREA (SQ.FEET/ACRE)	CON	4.6			4.4			
	200	5.9	1.3	28.3	4.9	0.5	11.4	
	400	6.0	1.4	30.4	5.4	1.0	22.7	
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ.FEET/ACRE)	CON	4.5			4.3			
	200	5.9	1.4	31.1	4.9	0.6	14.0	
	400	5.9	1.4	31.1	5.2	0.9	20.9	

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

SITE AND SOIL CHARACTERISTICS:

ELEVATION 4200 FEET
 SLOPE 1 PERCENT
 ASPECT 132 DEGREES
 DOUGLAS-FIR SITE INDEX 40.6 FEET AT 50 YEARS
 VEGETATION SERIES DOUGLAS-FIR
 PARENT MATERIAL ALLOVIUM
 ASH DEPTH NONE
 SOIL DEPTH MODERATE (12 TO 24 IN)
 TOTAL NITROGEN 926 PPM
 TOTAL PHOSPHORUS 526 PPM
 CARBON 1.74 PERCENT
 MINERALIZABLE NITROGEN 48.2 PPM
 COARSE FRAGMENTS 42.2 PERCENT
 CORRECTED MINERALIZABLE N 27.3 PPM
 TOTAL SOIL MOISTURE 1.4 INCHES

STAND CHARACTERISTICS:

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

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE		
			DIFFERENCE	% OF CONTROL	
FOUR-YEAR NET BASAL AREA (SQ. FEET/ACRE)	CONTROL 200 # N 400 # N	10.4 14.8 14.2	4.4 3.8	42.3 36.5	
FOUR-YEAR GROSS BASAL AREA (SQ. FEET/ACRE)	CONTROL 200 # N 400 # N	10.3 14.9 13.9	4.6 3.6	44.7 35.0	
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL 200 # N 400 # N	2.0 2.3 2.7	0.3 0.7	15.0 35.0	
FOUR-YEAR NET TOTAL VOLUME (CU. FEET/ACRE)	CONTROL 200 # N 400 # N	338 424 459	86 121	25.4 35.9	
FOUR-YEAR GROSS TOTAL VOLUME (CU. FEET/ACRE)	CONTROL 200 # N 400 # N	332 426 453	94 121	28.3 36.4	
			FIRST TWO YEARS	SECOND TWO YEARS	
			RESPONSE		
	TRT	INC	DIFF	%	
TWO-YEAR PERIODIC NET BASAL AREA (SQ. FEET/ACRE)	CON 200 400	5.8 8.1 7.5	2.3 1.7	39.7 29.3	
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ. FEET/ACRE)	CON 200 400	5.6 8.2 7.4	2.6 1.8	46.4 32.1	
			INC	DIFF	%
			4.7 6.7 6.7	2.0 2.0	42.6 42.6
			4.7 6.6 6.5	1.9 1.8	40.4 38.3

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

SITE AND SOIL CHARACTERISTICS:

ELEVATION 3100 FEET
 SLOPE 46 PERCENT
 ASPECT 333 DEGREES
 DOUGLAS-FIR SITE INDEX 96.4 FEET AT 50 YEARS
 VEGETATION SERIES WESTERN REDCEDAR
 PARENT MATERIAL ASH OVER METASEDIMENT
 ASH DEPTH DEEP { > 12 IN)
 SOIL DEPTH DEEP { > 24 IN)
 TOTAL NITROGEN 1432 PPM
 TOTAL PHOSPHORUS 627 PPM
 CARBON 2.35 PERCENT
 MINERALIZABLE NITROGEN 62.0 PPM
 COARSE FRAGMENTS 16.4 PERCENT
 CORRECTED MINERALIZABLE N 51.7 PPM
 TOTAL SOIL MOISTURE 12.4 INCHES

STAND CHARACTERISTICS:

INITIAL AGE 53 YEARS
 INITIAL TREES PER ACRE 247 TREES/ACRE
 INITIAL BASAL AREA 203.2 SQ. FEET/ACRE
 INITIAL TOTAL VOLUME 7091 CU. FEET/ACRE
 INITIAL CCF 217.7
 RELATIVE DENSITY INDEX 57.8
 MEAN DIAMETER 12.4 INCHES
 SITE HEIGHT (40 TPA) 101.3 FEET
 SPECIES COMPOSITION (% OF TOTAL BA)
 DOUGLAS-FIR 70.5 PERCENT
 GRAND FIR 23.3 PERCENT
 WESTERN REDCEDAR 5.8 PERCENT
 WHITE PINE 0.3 PERCENT

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE		
			DIFFERENCE	% OF CONTROL	
FOUR-YEAR NET BASAL AREA (SQ. FEET/ACRE)	CONTROL 200 # N 400 # N	21.1 23.4 25.0			
			2.3 3.9	10.9 18.5	
FOUR-YEAR GROSS BASAL AREA (SQ. FEET/ACRE)	CONTROL 200 # N 400 # N	20.6 23.5 30.1			
			2.9 9.5	14.1 46.1	
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL 200 # N 400 # N	4.3 5.5 6.0			
			1.2 1.7	27.9 39.5	
FOUR-YEAR NET TOTAL VOLUME (CU. FEET/ACRE)	CONTROL 200 # N 400 # N	1168 1284 1359			
			116 191	9.9 16.4	
FOUR-YEAR GROSS TOTAL VOLUME (CU. FEET/ACRE)	CONTROL 200 # N 400 # N	1149 1286 1506			
			137 357	11.9 31.1	
			FIRST TWO YEARS		
			RESPONSE		
	TRT	INC	DIFF	%	
TWO-YEAR PERIODIC NET BASAL AREA (SQ. FEET/ACRE)	CON 200 400	11.2 12.4 15.3	1.2 4.1	10.7 36.6	
			9.9 11.0 9.7	11.1 11.1 -2.0	
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ. FEET/ACRE)	CON 200 400	10.9 12.5 15.4	1.6 4.5	14.7 41.3	
			9.7 11.0 14.7	13.4 13.4 51.5	
				SECOND TWO YEARS	
			RESPONSE		
	TRT	INC	DIFF	%	

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

SITE AND SOIL CHARACTERISTICS:

ELEVATION 2750 FEET
 SLOPE 21 PERCENT
 ASPECT 342 DEGREES
 DOUGLAS-FIR SITE INDEX 90.8 FEET AT 50 YEARS
 VEGETATION SERIES WESTERN REDCEDAR
 PARENT MATERIAL ASH OVER METASEDIMENT
 ASH DEPTH DEEP (> 12 IN)
 SOIL DEPTH DEEP (> 24 IN)
 TOTAL NITROGEN 2011 PPM
 TOTAL PHOSPHORUS 928 PPM
 CARBON 2.11 PERCENT
 MINERALIZABLE NITROGEN 51.8 PPM
 COARSE FRAGMENTS 13.1 PERCENT
 CORRECTED MINERALIZABLE N 45.0 PPM
 TOTAL SOIL MOISTURE 20.1 INCHES

STAND CHARACTERISTICS:

INITIAL AGE 27 YEARS
 INITIAL TREES PER ACRE 460 TREES/ACRE
 INITIAL BASAL AREA 92.2 SQ. FEET/ACRE
 INITIAL TOTAL VOLUME 1625 CU. FEET/ACRE
 INITIAL CCF 129.4
 RELATIVE DENSITY INDEX 37.3
 MEAN DIAMETER 6.1 INCHES
 SITE HEIGHT (40 TPA) 48.6 FEET
 SPECIES COMPOSITION (% OF TOTAL BA)
 DOUGLAS-FIR 71.8 PERCENT
 GRAND FIR 16.1 PERCENT
 WESTERN REDCEDAR 9.4 PERCENT
 WESTERN LARCH 2.7 PERCENT

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE				
			DIFFERENCE	% OF CONTROL			
FOUR-YEAR NET BASAL AREA (SQ. FEET/ACRE)	CONTROL 200 # N 400 # N	32.1 42.3 42.7	10.2 10.6	31.8 33.0			
FOUR-YEAR GROSS BASAL AREA (SQ. FEET/ACRE)	CONTROL 200 # N 400 # N	31.8 42.3 44.3	10.5 12.5	33.0 39.3			
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL 200 # N 400 # N	6.4 8.0 7.7	1.6 1.3	25.0 20.3			
FOUR-YEAR NET TOTAL VOLUME (CU. FEET/ACRE)	CONTROL 200 # N 400 # N	829 1152 1047	323 218	39.0 26.3			
FOUR-YEAR GROSS TOTAL VOLUME (CU. FEET/ACRE)	CONTROL 200 # N 400 # N	816 1153 1072	337 256	41.3 31.4			
		FIRST TWO YEARS	SECOND TWO YEARS				
		RESPONSE	RESPONSE				
	TRT	INC	DIFF	%	INC	DIFF	%
TWO-YEAR PERIODIC NET BASAL AREA (SQ. FEET/ACRE)	CON 200 400	17.5 23.7 21.3	6.2 3.8	35.4 21.7	14.6 18.7 21.4	4.1 6.8	28.1 46.6
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ. FEET/ACRE)	CON 200 400	17.4 23.6 22.8	6.2 5.4	35.6 31.0	14.3 18.8 21.5	4.5 7.2	31.5 50.3

INSTALLATION 255 BIRCH CREEK
 REGION: NORTHERN IDAHO OWNERSHIP: INLAND EMPIRE
 LEGAL DESCRIPTION: T53N R5W SECTION 2 MERIDIAN: BOISE

SITE AND SOIL CHARACTERISTICS:

ELEVATION 3800 FEET
 SLOPE 19 PERCENT
 ASPECT 171 DEGREES
 DOUGLAS-FIR SITE INDEX 84.0 FEET AT 50 YEARS
 VEGETATION SERIES GRAND FIR
 PARENT MATERIAL ASH OVER METASEDIMENT
 ASH DEPTH DEEP { > 12 IN)
 SOIL DEPTH DEEP { > 24 IN)
 TOTAL NITROGEN 1722 PPM
 TOTAL PHOSPHORUS 712 PPM
 CARBON 1.82 PERCENT
 MINERALIZABLE NITROGEN 53.3 PPM
 COARSE FRAGMENTS 8.1 PERCENT
 CORRECTED MINERALIZABLE N 48.8 PPM
 TOTAL SOIL MOISTURE 21.1 INCHES

STAND CHARACTERISTICS:

INITIAL AGE 34 YEARS
 INITIAL TREES PER ACRE 702 TREES/ACRE
 INITIAL BASAL AREA 176.9 SQ.FEET/ACRE
 INITIAL TOTAL VOLUME 3623 CU.FEET/ACRE
 INITIAL CCF 229.1
 RELATIVE DENSITY INDEX 67.8
 MEAN DIAMETER 6.8 INCHES
 SITE HEIGHT (40 TPA) 57.1 FEET
 SPECIES COMPOSITION (% OF TOTAL BA)
 DOUGLAS-FIR 88.7 PERCENT
 GRAND FIR 2.7 PERCENT
 WESTERN LARCH 5.5 PERCENT
 LODGEPOLE PINE 1.0 PERCENT
 PONDEROSA PINE 2.1 PERCENT

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE		
			DIFFERENCE	% OF CONTROL	
FOUR-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	26.7			
	200 # N	20.8	-5.9	-22.1	
	400 # N	33.1	6.4	24.0	
FOUR-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	35.5			
	200 # N	37.8	2.3	6.5	
	400 # N	37.8	2.3	6.5	
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	4.6			
	200 # N	4.7	0.1	2.2	
	400 # N	5.4	0.8	17.4	
FOUR-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	934			
	200 # N	785	-149	-16.0	
	400 # N	1115	181	19.4	
FOUR-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	1103			
	200 # N	1119	16	1.5	
	400 # N	1208	105	9.5	
			FIRST TWO YEARS		
			RESPONSE		
	TRT	INC	DIFF	%	
TWO-YEAR PERIODIC NET BASAL AREA (SQ.FEET/ACRE)	CON	18.2			
	200	18.8	0.6	3.3	
	400	19.0	0.8	4.4	
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ.FEET/ACRE)	CON	18.0			
	200	20.1	2.1	11.7	
	400	19.6	1.6	8.9	
			SECOND TWO YEARS		
			RESPONSE		
			INC	DIFF	%
			8.4		
			2.1	-6.3	-75.0
			14.0	5.6	66.7
			17.5		
			17.7	0.2	1.1
			18.2	0.7	4.0

INSTALLATION 256 SLY MEADOWS
 REGION: NORTHERN IDAHO OWNERSHIP: INLAND EMPIRE
 LEGAL DESCRIPTION: T46N R1E SECTION 31 MERIDIAN: BOISE

SITE AND SOIL CHARACTERISTICS:

ELEVATION 3300 FEET
 SLOPE 13 PERCENT
 ASPECT 224 DEGREES
 DOUGLAS-FIR SITE INDEX 93.5 FEET AT 50 YEARS
 VEGETATION SERIES WESTERN HEMLOCK
 PARENT MATERIAL ASH OVER METASEDIMENT
 ASH DEPTH DEEP (> 12 IN)
 SOIL DEPTH DEEP (> 24 IN)
 TOTAL NITROGEN 2222 PPM
 TOTAL PHOSPHORUS 1654 PPM
 CARBON 2.51 PERCENT
 MINERALIZABLE NITROGEN 65.3 PPM
 COARSE FRAGMENTS 18.8 PERCENT
 CORRECTED MINERALIZABLE N 52.7 PPM
 TOTAL SOIL MOISTURE 19.4 INCHES

STAND CHARACTERISTICS:

INITIAL AGE 36 YEARS
 INITIAL TREES PER ACRE 568 TREES/ACRE
 INITIAL BASAL AREA 173.5 SQ-FEET/ACRE
 INITIAL TOTAL VOLUME 4283 CU-FEET/ACRE
 INITIAL CCF 217.9
 RELATIVE DENSITY INDEX 63.4
 MEAN DIAMETER 7.5 INCHES
 SITE HEIGHT (40 TPA) 73.3 FEET
 SPECIES COMPOSITION (% OF TOTAL BA)
 DOUGLAS-FIR 60.2 PERCENT
 GRAND FIR 21.2 PERCENT
 WESTERN REDCEDAR 2.1 PERCENT
 WESTERN LARCH 5.5 PERCENT
 LODGEPOLE PINE 11.0 PERCENT

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
FOUR-YEAR NET BASAL AREA (SQ-FEET/ACRE)	CONTROL	24.3		
	200 # N	16.5	-7.8	-32.1
	400 # N	4.3	-20.0	-82.3
FOUR-YEAR GROSS BASAL AREA (SQ-FEET/ACRE)	CONTROL	26.1		
	200 # N	28.1	2.0	7.7
	400 # N	30.6	4.5	17.2
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	4.4		
	200 # N	5.8	1.4	31.8
	400 # N	5.1	0.7	15.9
FOUR-YEAR NET TOTAL VOLUME (CU-FEET/ACRE)	CONTROL	1067		
	200 # N	961	-106	-9.9
	400 # N	627	-440	-41.2
FOUR-YEAR GROSS TOTAL VOLUME (CU-FEET/ACRE)	CONTROL	1082		
	200 # N	1185	103	9.5
	400 # N	1157	75	6.9
			FIRST TWO YEARS	
			SECOND TWO YEARS	
			RESPONSE	
			RESPONSE	
	TRT	INC	DIFF	%
	CON	14.0		
TWO-YEAR PERIODIC NET BASAL AREA (SQ-FEET/ACRE)	200	13.3	-0.7	-5.0
	400	16.2	2.2	15.7
			SECOND TWO YEARS	
			INC	DIFF
			10.4	
			3.1	-7.3
			-12	-22.3
				-214.4
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ-FEET/ACRE)	CON	13.5		
	200	15.4	1.9	14.1
	400	16.6	3.1	23.0
			SECOND TWO YEARS	
			INC	DIFF
			12.6	
			12.7	0.1
			14.0	1.4
				11.1

INSTALLATION 257 LITTLE CATHERINE CR
 REGION: NORTHEAST OREGON OWNERSHIP: BOISE CASCADE
 LEGAL DESCRIPTION: T4S R41E SECTION 28 MERIDIAN: WILLAMETTE

SITE AND SOIL CHARACTERISTICS:

ELEVATION	4900 FEET
SLOPE	38 PERCENT
ASPECT	122 DEGREES
DOUGLAS-FIR SITE INDEX	56.0 FEET AT 50 YEARS
VEGETATION SERIES	GRAND FIR
PARENT MATERIAL	BASALT
ASH DEPTH	NONE
SOIL DEPTH	MODERATE (12 TO 24 IN)
TOTAL NITROGEN	2842 PPM
TOTAL PHOSPHORUS	1134 PPM
CARBON	3.06 PERCENT
MINERALIZABLE NITROGEN	80.8 PPM
COARSE FRAGMENTS	16.8 PERCENT
CORRECTED MINERALIZABLE N	67.5 PPM
TOTAL SOIL MOISTURE	3.9 INCHES

STAND CHARACTERISTICS:

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

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
FOUR-YEAR NET BASAL AREA (SQ. FEET/ACRE)	CONTROL	16.9		
	200 # N	18.6	1.7	10.1
	400 # N	19.2	2.3	13.6
FOUR-YEAR GROSS BASAL AREA (SQ. FEET/ACRE)	CONTROL	16.9		
	200 # N	18.4	1.5	8.9
	400 # N	19.1	2.2	13.0
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	1.3		
	200 # N	2.0	-0.7	-53.8
	400 # N	0.5	-0.8	-61.5
FOUR-YEAR NET TOTAL VOLUME (CU. FEET/ACRE)	CONTROL	571		
	200 # N	583	12	2.1
	400 # N	517	-54	-9.5
FOUR-YEAR GROSS TOTAL VOLUME (CU. FEET/ACRE)	CONTROL	571		
	200 # N	573	2	0.4
	400 # N	521	-50	-8.8
			FIRST TWO YEARS	
			RESPONSE	
	TRT	INC	DIFF	%
TWO-YEAR PERIODIC NET BASAL AREA (SQ. FEET/ACRE)	CON	9.8		
	200	12.4	2.6	26.5
	400	12.6	2.8	28.6
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ. FEET/ACRE)	CON	9.9		
	200	12.1	2.2	22.2
	400	12.6	2.7	27.3
			SECOND TWO YEARS	
			RESPONSE	
			INC	DIFF
				%
TWO-YEAR PERIODIC NET BASAL AREA (SQ. FEET/ACRE)	CON	7.1		
	200	6.3	-0.8	-11.3
	400	6.6	-0.5	-7.0
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ. FEET/ACRE)	CON	6.9		
	200	6.3	-0.6	-8.7
	400	6.6	-0.3	-4.3

INSTALLATION 258 RONDOWA
 REGION: NORTHEAST OREGON OWNERSHIP: BOISE CASCADE
 LEGAL DESCRIPTION: T3N R40E SECTION 23 MERIDIAN: WILLAMETTE

SITE AND SOIL CHARACTERISTICS:

ELEVATION 2400 FEET
 SLOPE 26 PERCENT
 ASPECT 275 DEGREES
 DOUGLAS-FIR SITE INDEX 77.1 FEET AT 50 YEARS
 VEGETATION SERIES GRAND FIR
 PARENT MATERIAL BASALT
 ASH DEPTH NONE
 SOIL DEPTH MODERATE (12 TO 24 IN)
 TOTAL NITROGEN 3551 PPM
 TOTAL PHOSPHORUS 878 PPM
 CARBON 2.06 PERCENT
 MINERALIZABLE NITROGEN 88.8 PPM
 COARSE FRAGMENTS 19.9 PERCENT
 CORRECTED MINERALIZABLE N 71.3 PPM
 TOTAL SOIL MOISTURE 4.9 INCHES

STAND CHARACTERISTICS:

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

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
FOUR-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	12.1		
	200 # N	12.5	0.4	3.3
	400 # N	15.0	2.9	24.0
FOUR-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	16.9		
	200 # N	18.5	1.6	9.5
	400 # N	20.2	3.3	19.5
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	2.6		
	200 # N	2.9	0.3	11.5
	400 # N	2.8	0.2	7.7
FOUR-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	551		
	200 # N	572	21	3.8
	400 # N	696	145	26.3
FOUR-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	693		
	200 # N	810	117	16.9
	400 # N	850	157	22.7
			FIRST TWO YEARS	
			RESPONSE	
	TRT	INC	DIFP	%
TWO-YEAR PERIODIC NET BASAL AREA (SQ.FEET/ACRE)	CON	6.6		
	200	3.2	-3.4	-51.5
	400	4.6	-2.0	-30.3
			SECOND TWO YEARS	
			RESPONSE	
	TRT	INC	DIFP	%
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ.FEET/ACRE)	CON	8.4		
	200	9.2	0.8	9.5
	400	10.3	1.9	22.6
			8.6	
			9.3	0.7
			10.0	1.4
				8.1
				16.3

INSTALLATION 259 RAILROAD CANYON
 REGION: CENTRAL WASHINGTON OWNERSHIP: LONGVIEW FIBER
 LEGAL DESCRIPTION: T25N R18E SECTION 2 MERIDIAN: WILLAMETTE

SITE AND SOIL CHARACTERISTICS:

ELEVATION	3200 FEET
SLOPE	57 PERCENT
ASPECT	300 DEGREES
DOUGLAS-FIR SITE INDEX	67.6 FEET AT 50 YEARS
VEGETATION SERIES	DOUGLAS-FIR
PARENT MATERIAL	SANDSTONE
ASH DEPTH	NONE
SOIL DEPTH	DEEP (> 24 IN)
TOTAL NITROGEN	1676 PPM
TOTAL PHOSPHORUS	397 PPM
CARBON	1.37 PERCENT
MINERALIZABLE NITROGEN	41.3 PPM
COARSE FRAGMENTS	14.2 PERCENT
CORRECTED MINERALIZABLE N	35.3 PPM
TOTAL SOIL MOISTURE	3.0 INCHES

STAND CHARACTERISTICS:

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

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE				
			DIFFERENCE	% OF CONTROL			
FOUR-YEAR NET BASAL AREA (SQ. FEET/ACRE)	CONTROL	11.0					
	200 # N	16.3	5.3	48.2			
	400 # N	21.8	10.8	98.2			
FOUR-YEAR GROSS BASAL AREA (SQ. FEET/ACRE)	CONTROL	12.2					
	200 # N	16.5	4.3	35.2			
	400 # N	20.0	7.8	63.9			
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	1.7					
	200 # N	2.3	0.6	35.3			
	400 # N	2.8	1.1	64.7			
FOUR-YEAR NET TOTAL VOLUME (CU. FEET/ACRE)	CONTROL	407					
	200 # N	591	184	45.2			
	400 # N	804	397	97.5			
FOUR-YEAR GROSS TOTAL VOLUME (CU. FEET/ACRE)	CONTROL	450					
	200 # N	596	146	32.4			
	400 # N	742	292	64.9			
		FIRST TWO YEARS		SECOND TWO YEARS			
		RESPONSE					
	TRT	INC	DIFF	%	INC	DIFF	%
TWO-YEAR PERIODIC NET BASAL AREA (SQ. FEET/ACRE)	CON	6.8			4.2		
	200	10.2	3.4	50.0	6.1	1.9	45.2
	400	14.6	7.8	114.7	7.3	3.1	73.8
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ. FEET/ACRE)	CON	7.7			4.5		
	200	10.4	2.7	35.1	6.1	1.6	35.6
	400	13.7	6.0	77.9	6.3	1.8	40.0

INSTALLATION 260 TUMWATER MTN
 REGION: CENTRAL WASHINGTON OWNERSHIP: LONGVIEW FIBER
 LEGAL DESCRIPTION: T24N R17E SECTION 3 MERIDIAN: WILLAMETTE

SITE AND SOIL CHARACTERISTICS:

ELEVATION	3700 FEET
SLOPE	79 PERCENT
ASPECT	89 DEGREES
DOUGLAS-FIR SITE INDEX	84.5 FEET AT 50 YEARS
VEGETATION SERIES	GRAND FIR
PARENT MATERIAL	GRANITE
ASH DEPTH	TRACE
SOIL DEPTH	DEEP (> 24 IN)
TOTAL NITROGEN	1142 PPM
TOTAL PHOSPHORUS	781 PPM
CARBON	1.01 PERCENT
MINERALIZABLE NITROGEN	27.3 PPM
COARSE FRAGMENTS	18.1 PERCENT
CORRECTED MINERALIZABLE N	22.7 PPM
TOTAL SOIL MOISTURE	4.8 INCHES

STAND CHARACTERISTICS:

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

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE				
			DIFFERENCE	% OF CONTROL			
FOUR-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	17.7					
	200 # N	16.9	-0.8	-4.5			
	400 # N	16.5	-1.2	-6.8			
FOUR-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	15.9					
	200 # N	20.2	4.3	27.0			
	400 # N	18.8	2.9	18.2			
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	3.3					
	200 # N	4.0	0.7	21.2			
	400 # N	3.2	-0.1	-3.0			
FOUR-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	847					
	200 # N	946	99	11.7			
	400 # N	863	16	1.9			
FOUR-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	781					
	200 # N	1016	235	30.1			
	400 # N	932	151	19.3			
			FIRST TWO YEARS	SECOND TWO YEARS			
			RESPONSE	RESPONSE			
	TRT	INC	DIFF	%	INC	DIFF	%
TWO-YEAR PERIODIC NET BASAL AREA (SQ.FEET/ACRE)	CON	9.5			8.2		
	200	8.0	-1.5	-15.8	8.9	0.7	8.5
	400	7.9	-1.6	-16.8	8.7	0.5	6.1
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ.FEET/ACRE)	CON	8.3			7.5		
	200	11.3	3.0	36.1	8.9	1.4	18.7
	400	10.1	1.8	21.7	8.7	1.2	16.0

INSTALLATION 261 SECOND CREEK
 REGION: CENTRAL WASHINGTON OWNERSHIP: LONGVIEW FIBER
 LEGAL DESCRIPTION: T26N R18E SECTION 22 MERIDIAN: WILLAMETTE

SITE AND SOIL CHARACTERISTICS:

ELEVATION 2700 FEET
 SLOPE 47 PERCENT
 ASPECT 7 DEGREES
 DOUGLAS-FIR SITE INDEX 71.2 FEET AT 50 YEARS
 VEGETATION SERIES GRAND FIR
 PARENT MATERIAL SANDSTONE
 ASH DEPTH TRACE
 SOIL DEPTH DEEP (> 24 IN)
 TOTAL NITROGEN 1007 PPM
 TOTAL PHOSPHORUS 400 PPM
 CARBON 1.43 PERCENT
 MINERALIZABLE NITROGEN 38.8 PPM
 COARSE FRAGMENTS 9.2 PERCENT
 CORRECTED MINERALIZABLE N 35.5 PPM
 TOTAL SOIL MOISTURE 2.8 INCHES

STAND CHARACTERISTICS:

INITIAL AGE 75 YEARS
 INITIAL TREES PER ACRE 272 TREES/ACRE
 INITIAL BASAL AREA 146.7 SQ.FEET/ACRE
 INITIAL TOTAL VOLUME 4390 CU.FEET/ACRE
 INITIAL CCP 173.9
 RELATIVE DENSITY INDEX 46.3
 MEAN DIAMETER 9.9 INCHES
 SITE HEIGHT (40 TPA) 85.1 FEET
 SPECIES COMPOSITION (% OF TOTAL BA)
 DOUGLAS-FIR 86.4 PERCENT
 GRAND FIR 13.6 PERCENT

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE				
			DIFFERENCE	% OF CONTROL			
FOUR-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	12.9					
	200 # N	22.6	9.7	75.2			
	400 # N	24.5	11.6	89.9			
FOUR-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	11.5					
	200 # N	22.5	11.0	95.7			
	400 # N	25.1	13.6	118.3			
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	2.6					
	200 # N	4.2	1.6	61.5			
	400 # N	5.1	2.5	96.2			
FOUR-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	509					
	200 # N	845	336	66.0			
	400 # N	988	479	94.1			
FOUR-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	457					
	200 # N	841	384	84.0			
	400 # N	1005	548	119.9			
			FIRST TWO YEARS		SECOND TWO YEARS		
			RESPONSE		RESPONSE		
	TRT	INC	DIFF	%	INC	DIFF	%
TWO-YEAR PERIODIC NET BASAL AREA (SQ.FEET/ACRE)	CON	7.7			5.3		
	200	13.3	5.6	72.7	9.2	3.9	73.6
	400	14.5	6.8	88.3	9.9	4.6	86.8
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ.FEET/ACRE)	CON	6.7			4.8		
	200	13.3	6.6	98.5	9.2	4.4	91.7
	400	14.7	8.0	119.4	10.4	5.6	116.7

INSTALLATION 262 STEVENS PASS
 REGION: CENTRAL WASHINGTON OWNERSHIP: LONGVIEW FIBER
 LEGAL DESCRIPTION: T26N R15E SECTION 3 MERIDIAN: WILLAMETTE

SITE AND SOIL CHARACTERISTICS:

ELEVATION	2800 FEET
SLOPE	19 PERCENT
ASPECT	139 DEGREES
DOUGLAS-FIR SITE INDEX	70.9 FEET AT 50 YEARS
VEGETATION SERIES	WESTERN HEMLOCK
PARENT MATERIAL	GLACIAL TILL
ASH DEPTH	SHALLOW (< 3 IN)
SOIL DEPTH	DEEP (> 24 IN)
TOTAL NITROGEN	1755 PPM
TOTAL PHOSPHORUS	843 PPM
CARBON	1.45 PERCENT
MINERALIZABLE NITROGEN	21.5 PPM
COARSE FRAGMENTS	16.8 PERCENT
CORRECTED MINERALIZABLE N	18.0 PPM
TOTAL SOIL MOISTURE	5.7 INCHES

STAND CHARACTERISTICS:

INITIAL AGE	75 YEARS
INITIAL TREES PER ACRE	375 TREES/ACRE
INITIAL BASAL AREA	218.9 SQ.FEET/ACRE
INITIAL TOTAL VOLUME	6998 CU.FEET/ACRE
INITIAL CCF	256.7
RELATIVE DENSITY INDEX	67.9
MEAN DIAMETER	10.3 INCHES
SITE HEIGHT (40 TPA)	92.0 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	64.7 PERCENT
GRAND FIR	28.7 PERCENT
WESTERN REDCEDAR	3.1 PERCENT
HEMLOCK	3.5 PERCENT

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
FOUR-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	3.5		
	200 # N	21.3	17.8	508.6
	400 # N	23.7	20.2	577.1
FOUR-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	18.0		
	200 # N	21.4	3.4	18.9
	400 # N	24.3	6.3	35.0
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	3.5		
	200 # N	4.0	0.5	14.3
	400 # N	4.1	0.6	17.1
FOUR-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	324		
	200 # N	1052	728	224.7
	400 # N	1156	832	256.8
FOUR-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	837		
	200 # N	1055	218	26.0
	400 # N	1164	327	39.1
			FIRST TWO YEARS	
			RESPONSE	
	TRT	INC	DIFF	%
TWO-YEAR PERIODIC NET BASAL AREA (SQ.FEET/ACRE)	CON	0.1		
	200	11.0	10.9	10900
	400	11.2	11.1	11100
			SECOND TWO YEARS	
			RESPONSE	
	TRT	INC	DIFF	%
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ.FEET/ACRE)	CON	9.7		
	200	11.1	1.4	14.4
	400	11.9	2.2	22.7

INSTALLATION 263 N.F. TEANAWAY RIVER
 REGION: CENTRAL WASHINGTON OWNERSHIP: WASHINGTON DNR
 LEGAL DESCRIPTION: T21N R16E SECTION 20 MERIDIAN: WILLAMETTE

SITE AND SOIL CHARACTERISTICS:

ELEVATION	2500 FEET
SLOPE	15 PERCENT
ASPECT	280 DEGREES
DOUGLAS-FIR SITE INDEX	68.2 FEET AT 50 YEARS
VEGETATION SERIES	GRAND FIR
PARENT MATERIAL	SANDSTONE
ASH DEPTH	MEDIUM (3 TO 12 IN)
SOIL DEPTH	DEEP (> 24 IN)
TOTAL NITROGEN	1458 PPM
TOTAL PHOSPHORUS	448 PPM
CARBON	1.01 PERCENT
MINERALIZABLE NITROGEN	40.8 PPM
COARSE FRAGMENTS	9.1 PERCENT
CORRECTED MINERALIZABLE N	37.7 PPM
TOTAL SOIL MOISTURE	7.0 INCHES

STAND CHARACTERISTICS:

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

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE					
			DIFFERENCE	% OF CONTROL				
FOUR-YEAR NET	CONTROL	15.4						
BASAL AREA	200 # N	20.3	4.9	31.8				
(SQ.FEET/ACRE)	400 # N	21.1	5.7	37.0				
FOUR-YEAR GROSS	CONTROL	14.7						
BASAL AREA	200 # N	20.1	5.4	36.7				
(SQ.FEET/ACRE)	400 # N	21.7	7.0	47.6				
FOUR-YEAR	CONTROL	3.5						
AVERAGE HEIGHT	200 # N	4.0	0.5	14.3				
(FEET/TREE)	400 # N	4.6	1.1	31.4				
FOUR-YEAR NET	CONTROL	613						
TOTAL VOLUME	200 # N	773	160	26.1				
(CU.FEET/ACRE)	400 # N	901	288	47.0				
FOUR-YEAR GROSS	CONTROL	590						
TOTAL VOLUME	200 # N	763	173	29.3				
(CU.FEET/ACRE)	400 # N	920	330	55.9				
	FIRST TWO YEARS				SECOND TWO YEARS			
	RESPONSE							
	TRT	INC	DIFF	%	INC	DIFF	%	
TWO-YEAR PERIODIC	CON	8.1			7.2			
NET BASAL AREA	200	11.3	3.2	39.5	9.0	1.8	25.0	
(SQ.FEET/ACRE)	400	12.0	3.9	48.1	9.0	1.8	25.0	
TWO-YEAR PERIODIC	CON	7.7			7.0			
GROSS BASAL AREA	200	11.1	3.4	44.2	9.0	2.0	28.6	
(SQ.FEET/ACRE)	400	12.2	4.5	58.4	9.5	2.5	35.7	

INSTALLATION 264 RENFRO PEAK
 REGION: NORTHERN IDAHO OWNERSHIP: POTLATCH
 LEGAL DESCRIPTION: T44N R1E SECTION 11 MERIDIAN: BOISE

SITE AND SOIL CHARACTERISTICS:

ELEVATION	4600 FEET
SLOPE	41 PERCENT
ASPECT	178 DEGREES
DOUGLAS-FIR SITE INDEX	84.5 FEET AT 50 YEARS
VEGETATION SERIES	WESTERN REDCEDAR
PARENT MATERIAL	ASH AND/OR LOESS
ASH DEPTH	DEEP { > 12 IN}
SOIL DEPTH	DEEP { > 24 IN}
TOTAL NITROGEN	2894 PPM
TOTAL PHOSPHORUS	731 PPM
CARBON	1.04 PERCENT
MINERALIZABLE NITROGEN	40.7 PPM
COARSE FRAGMENTS	13.9 PERCENT
CORRECTED MINERALIZABLE N	35.2 PPM
TOTAL SOIL MOISTURE	19.1 INCHES

STAND CHARACTERISTICS:

INITIAL AGE	50 YEARS
INITIAL TREES PER ACRE	440 TREES/ACRE
INITIAL BASAL AREA	237.5 SQ. FEET/ACRE
INITIAL TOTAL VOLUME	6630 CU. FEET/ACRE
INITIAL CCF	270.7
RELATIVE DENSITY INDEX	74.9
MEAN DIAMETER	10.2 INCHES
SITE HEIGHT (40 TPA)	81.7 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	65.6 PERCENT
GRAND FIR	23.3 PERCENT
WESTERN REDCEDAR	0.0 PERCENT
WESTERN LARCH	10.6 PERCENT
ENGELMANN SPRUCE	0.5 PERCENT

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE				
			DIFFERENCE	% OF CONTROL			
FOUR-YEAR NET BASAL AREA (SQ. FEET/ACRE)	CONTROL	14.5					
	200 # N	26.5	12.0	82.8			
	400 # N	23.0	8.5	58.6			
FOUR-YEAR GROSS BASAL AREA (SQ. FEET/ACRE)	CONTROL	17.3					
	200 # N	26.8	9.5	54.9			
	400 # N	25.7	8.4	48.6			
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	3.4					
	200 # N	4.6	1.2	35.3			
	400 # N	3.9	0.5	14.7			
FOUR-YEAR NET TOTAL VOLUME (CU. FEET/ACRE)	CONTROL	772					
	200 # N	1240	468	60.6			
	400 # N	1108	336	43.5			
FOUR-YEAR GROSS TOTAL VOLUME (CU. FEET/ACRE)	CONTROL	851					
	200 # N	1252	401	47.1			
	400 # N	1163	312	36.7			
			FIRST TWO YEARS		SECOND TWO YEARS		
			RESPONSE		RESPONSE		
	TRT	INC	DIFF	%	INC	DIFF	%
TWO-YEAR PERIODIC NET BASAL AREA (SQ. FEET/ACRE)	CON	9.4			5.0		
	200	14.4	5.0	53.2	12.2	7.2	144.0
	400	11.8	2.4	25.5	11.3	6.3	126.0
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ. FEET/ACRE)	CON	9.1			8.2		
	200	14.6	5.5	60.4	12.2	4.0	48.8
	400	13.3	4.2	46.2	12.3	4.1	50.0

INSTALLATION 265 MALLORY CREEK
 REGION: NORTHERN IDAHO OWNERSHIP: POTLATCH
 LEGAL DESCRIPTION: T41N R2E SECTION 18 MERIDIAN: BOISE

SITE AND SOIL CHARACTERISTICS:

ELEVATION 3600 FEET
 SLOPE 41 PERCENT
 ASPECT 203 DEGREES
 DOUGLAS-FIR SITE INDEX 94.3 FEET AT 50 YEARS
 VEGETATION SERIES WESTERN REDCEDAR
 PARENT MATERIAL ASH OVER METASEDIMENT
 ASH DEPTH DEEP { > 12 IN)
 SOIL DEPTH DEEP { > 24 IN)
 TOTAL NITROGEN 3569 PPM
 TOTAL PHOSPHORUS 409 PPM
 CARBON 1.13 PERCENT
 MINERALIZABLE NITROGEN 37.5 PPM
 COARSE FRAGMENTS 16.0 PERCENT
 CORRECTED MINERALIZABLE N 31.5 PPM
 TOTAL SOIL MOISTURE 18.0 INCHES

STAND CHARACTERISTICS:

INITIAL AGE 32 YEARS
 INITIAL TREES PER ACRE 320 TREES/ACRE
 INITIAL BASAL AREA 129.1 SQ. FEET/ACRE
 INITIAL TOTAL VOLUME 2811 CU. FEET/ACRE
 INITIAL CCF 158.2
 RELATIVE DENSITY INDEX 43.9
 MEAN DIAMETER 8.6 INCHES
 SITE HEIGHT (40 TPA) 61.1 FEET
 SPECIES COMPOSITION (% OF TOTAL BA)
 DOUGLAS-FIR 86.9 PERCENT
 GRAND FIR 7.8 PERCENT
 WESTERN REDCEDAR 1.7 PERCENT
 WESTERN LARCH 1.2 PERCENT
 WHITE PINE 2.5 PERCENT

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE				
			DIFFERENCE	% OF CONTROL			
FOUR-YEAR NET BASAL AREA (SQ. FEET/ACRE)	CONTROL	28.3					
	200 # N	32.7	4.4	15.5			
	400 # N	33.2	4.9	17.3			
FOUR-YEAR GROSS BASAL AREA (SQ. FEET/ACRE)	CONTROL	27.7					
	200 # N	37.4	9.7	35.0			
	400 # N	35.5	7.8	28.2			
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	6.0					
	200 # N	7.5	1.5	25.0			
	400 # N	6.6	0.6	10.0			
FOUR-YEAR NET TOTAL VOLUME (CU. FEET/ACRE)	CONTROL	965					
	200 # N	1102	137	14.2			
	400 # N	1067	102	10.6			
FOUR-YEAR GROSS TOTAL VOLUME (CU. FEET/ACRE)	CONTROL	944					
	200 # N	1193	249	26.4			
	400 # N	1122	178	18.9			
			FIRST TWO YEARS		SECOND TWO YEARS		
			RESPONSE		RESPONSE		
	TRT	INC	DIFF	%	INC	DIFF	%
TWO-YEAR PERIODIC NET BASAL AREA (SQ. FEET/ACRE)	CON	14.8			13.5		
	200	18.9	4.1	27.7	13.8	0.3	2.2
	400	19.0	4.2	28.4	14.1	0.6	4.4
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ. FEET/ACRE)	CON	14.5			13.3		
	200	20.4	5.9	40.7	17.0	3.7	27.8
	400	19.1	4.6	31.7	16.5	3.2	24.1

INSTALLATION 266 DOUGLAS FALLS #1
 REGION: NORTHEAST WASHINGTON OWNERSHIP: WASHINGTON DNR
 LEGAL DESCRIPTION: T36N R39E SECTION 16 MERIDIAN: WILLAMETTE

SITE AND SOIL CHARACTERISTICS:

ELEVATION	1900 FEET
SLOPE	6 PERCENT
ASPECT	258 DEGREES
DOUGLAS-FIR SITE INDEX	56.5 FEET AT 50 YEARS
VEGETATION SERIES	DOUGLAS-FIR
PARENT MATERIAL	GLACIAL TILL
ASH DEPTH	MEDIUM (3 TO 12 IN)
SOIL DEPTH	DEEP (> 24 IN)
TOTAL NITROGEN	3044 PPM
TOTAL PHOSPHORUS	1469 PPM
CARBON	2.17 PERCENT
MINERALIZABLE NITROGEN	50.0 PPM
COARSE FRAGMENTS	35.5 PERCENT
CORRECTED MINERALIZABLE N	32.5 PPM
TOTAL SOIL MOISTURE	4.3 INCHES

STAND CHARACTERISTICS:

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

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE				
			DIFFERENCE	% OF CONTROL			
FOUR-YEAR NET BASAL AREA (SQ. FEET/ACRE)	CONTROL 200 # N 400 # N	11.5 13.5 16.6	2.0 5.1	17.4 44.3			
FOUR-YEAR GROSS BASAL AREA (SQ. FEET/ACRE)	CONTROL 200 # N 400 # N	11.3 14.6 16.2	3.3 4.9	29.2 43.4			
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL 200 # N 400 # N	2.9 3.4 3.8	0.5 0.9	17.2 31.0			
FOUR-YEAR NET TOTAL VOLUME (CU. FEET/ACRE)	CONTROL 200 # N 400 # N	417 492 578	75 161	18.0 38.6			
FOUR-YEAR GROSS TOTAL VOLUME (CU. FEET/ACRE)	CONTROL 200 # N 400 # N	409 515 567	106 158	25.9 38.6			
		FIRST TWO YEARS		SECOND TWO YEARS			
		RESPONSE					
	TRT	INC	DIFF	%	INC	DIFF	%
TWO-YEAR PERIODIC NET BASAL AREA (SQ. FEET/ACRE)	CON 200 400	6.5 8.3 9.2	1.8 2.7	27.7 41.5	5.0 5.2 7.5	0.2 2.5	4.0 50.0
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ. FEET/ACRE)	CON 200 400	6.5 8.3 9.1	1.8 2.6	27.7 40.0	4.8 6.3 7.2	1.5 2.4	31.3 50.0

INSTALLATION 267 DOUGLAS FALLS #2
 REGION: NORTHEAST WASHINGTON OWNERSHIP: WASHINGTON DNR
 LEGAL DESCRIPTION: T36N R39E SECTION 16 MERIDIAN: WILLAMETTE

SITE AND SOIL CHARACTERISTICS:

ELEVATION	1900 FEET
SLOPE	4 PERCENT
ASPECT	236 DEGREES
DOUGLAS-FIR SITE INDEX	54.6 FEET AT 50 YEARS
VEGETATION SERIES	DOUGLAS-FIR
PARENT MATERIAL	GLACIAL TILL
ASH DEPTH	MEDIUM (3 TO 12 IN)
SOIL DEPTH	DEEP (> 24 IN)
TOTAL NITROGEN	3221 PPM
TOTAL PHOSPHORUS	1317 PPM
CARBON	1.98 PERCENT
MINERALIZABLE NITROGEN	45.2 PPM
COARSE FRAGMENTS	27.8 PERCENT
CORRECTED MINERALIZABLE N	31.7 PPM
TOTAL SOIL MOISTURE	9.6 INCHES

STAND CHARACTERISTICS:

INITIAL AGE	81 YEARS
INITIAL TREES PER ACRE	212 TREES/ACRE
INITIAL BASAL AREA	118.0 SQ. FEET/ACRE
INITIAL TOTAL VOLUME	3075 CU. FEET/ACRE
INITIAL CCF	134.4
RELATIVE DENSITY INDEX	37.1
MEAN DIAMETER	10.1 INCHES
SITE HEIGHT (40 TPA)	75.3 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	99.8 PERCENT
LODGEPOLE PINE	0.2 PERCENT

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE		
			DIFFERENCE	% OF CONTROL	
FOUR-YEAR NET BASAL AREA (SQ. FEET/ACRE)	CONTROL 200 # N 400 # N	11.7 13.7 12.5	2.0 0.8	17.1 6.8	
FOUR-YEAR GROSS BASAL AREA (SQ. FEET/ACRE)	CONTROL 200 # N 400 # N	11.7 16.8 15.2	5.1 3.5	43.6 29.9	
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL 200 # N 400 # N	2.8 3.0 3.8	0.2 1.0	7.1 35.7	
FOUR-YEAR NET TOTAL VOLUME (CU. FEET/ACRE)	CONTROL 200 # N 400 # N	430 489 469	59 39	13.7 9.1	
FOUR-YEAR GROSS TOTAL VOLUME (CU. FEET/ACRE)	CONTROL 200 # N 400 # N	428 574 537	146 109	34.1 25.5	
		FIRST TWO YEARS	SECOND TWO YEARS		
		RESPONSE			
	TRT	INC	DIFF	%	
TWO-YEAR PERIODIC NET BASAL AREA (SQ. FEET/ACRE)	CON 200 400	6.4 9.2 8.5	2.8 2.1	43.8 32.8	
			INC	DIFF	%
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ. FEET/ACRE)	CON 200 400	6.4 9.3 8.4	2.9 2.0	45.3 31.3	
			INC	DIFF	%
			5.3 4.4 4.0	-0.9 -1.3	-17.0 -24.5
			5.3 7.4 6.8	2.1 1.5	39.6 28.3

INSTALLATION 268 SHEEP CREEK
 REGION: NORTHEAST WASHINGTON OWNERSHIP: INLAND EMPIRE
 LEGAL DESCRIPTION: T40N R39E SECTION 8 MERIDIAN: WILLAMETTE

SITE AND SOIL CHARACTERISTICS:

ELEVATION 3350 FEET
 SLOPE 13 PERCENT
 ASPECT 197 DEGREES
 DOUGLAS-FIR SITE INDEX 82.5 FEET AT 50 YEARS
 VEGETATION SERIES WESTERN REDCEDAR
 PARENT MATERIAL GLACIAL TILL
 ASH DEPTH SHALLOW (< 3 IN)
 SOIL DEPTH DEEP (> 24 IN)
 TOTAL NITROGEN 3190 PPM
 TOTAL PHOSPHORUS 2185 PPM
 CARBON 2.13 PERCENT
 MINERALIZABLE NITROGEN 43.5 PPM
 COARSE FRAGMENTS 30.2 PERCENT
 CORRECTED MINERALIZABLE N 30.5 PPM
 TOTAL SOIL MOISTURE 9.5 INCHES

STAND CHARACTERISTICS:

INITIAL AGE 55 YEARS
 INITIAL TREES PER ACRE 358 TREES/ACRE
 INITIAL BASAL AREA 187.2 SQ. FEET/ACRE
 INITIAL TOTAL VOLUME 5214 CU. FEET/ACRE
 INITIAL CCF 211.9
 RELATIVE DENSITY INDEX 59.7
 MEAN DIAMETER 9.8 INCHES
 SITE HEIGHT (40 TPA) 81.3 FEET
 SPECIES COMPOSITION (% OF TOTAL BA)
 DOUGLAS-FIR 95.5 PERCENT
 GRAND FIR 2.0 PERCENT
 WESTERN REDCEDAR 0.9 PERCENT
 WESTERN LARCH 0.2 PERCENT
 PONDEROSA PINE 0.3 PERCENT
 ENGELMANN SPRUCE 1.1 PERCENT

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
FOUR-YEAR NET BASAL AREA (SQ. FEET/ACRE)	CONTROL	16.5		
	200 # N	25.1	8.6	52.1
	400 # N	20.9	4.4	26.7
FOUR-YEAR GROSS BASAL AREA (SQ. FEET/ACRE)	CONTROL	19.1		
	200 # N	25.0	5.9	30.9
	400 # N	21.8	2.7	14.1
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	3.7		
	200 # N	3.9	0.2	5.4
	400 # N	4.3	0.6	16.2
FOUR-YEAR NET TOTAL VOLUME (CU. FEET/ACRE)	CONTROL	713		
	200 # N	987	274	38.4
	400 # N	937	224	31.4
FOUR-YEAR GROSS TOTAL VOLUME (CU. FEET/ACRE)	CONTROL	787		
	200 # N	980	193	24.5
	400 # N	960	173	22.0
			FIRST TWO YEARS	
			RESPONSE	
	TRT	INC	DIFF	%
TWO-YEAR PERIODIC NET BASAL AREA (SQ. FEET/ACRE)	CON	7.4		
	200	13.9	6.5	87.8
	400	11.9	4.5	60.8
			SECOND TWO YEARS	
			RESPONSE	
	TRT	INC	DIFF	%
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ. FEET/ACRE)	CON	9.8		
	200	13.8	4.0	40.8
	400	11.8	2.0	20.4

INSTALLATION 269 UPPER BURNT FORK CR
 REGION: MONTANA OWNERSHIP: CHAMPION
 LEGAL DESCRIPTION: T15N R16W SECTION 27 MERIDIAN: PRINCIPAL

SITE AND SOIL CHARACTERISTICS:

ELEVATION	4800	FEET
SLOPE	56	PERCENT
ASPECT	260	DEGREES
DOUGLAS-FIR SITE INDEX	57.5	FEET AT 50 YEARS
VEGETATION SERIES	DOUGLAS-FIR	
PARENT MATERIAL	COLLOVIUM	
ASH DEPTH	NONE	
SOIL DEPTH	DEEP	(> 24 IN)
TOTAL NITROGEN	1288	PPM
TOTAL PHOSPHORUS	149	PPM
CARBON	1.78	PERCENT
MINERALIZABLE NITROGEN	45.8	PPM
COARSE FRAGMENTS	53.7	PERCENT
CORRECTED MINERALIZABLE N	20.8	PPM
TOTAL SOIL MOISTURE	2.3	INCHES

STAND CHARACTERISTICS:

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

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE				
			DIFFERENCE	% OF CONTROL			
FOUR-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	9.4					
	200 # N	12.3	2.9	30.9			
	400 # N	14.4	5.0	53.2			
FOUR-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	9.3					
	200 # N	12.4	3.1	33.3			
	400 # N	14.2	4.9	52.7			
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	2.3					
	200 # N	2.4	0.1	4.3			
	400 # N	2.8	0.5	21.7			
FOUR-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	320					
	200 # N	411	91	28.4			
	400 # N	426	106	33.1			
FOUR-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	313					
	200 # N	413	100	31.9			
	400 # N	419	106	33.9			
		<u>FIRST TWO YEARS</u>		<u>SECOND TWO YEARS</u>			
			<u>RESPONSE</u>	<u>RESPONSE</u>			
	<u>TRT</u>	<u>INC</u>	<u>DIFF</u>	<u>%</u>	<u>INC</u>	<u>DIFF</u>	<u>%</u>
TWO-YEAR PERIODIC NET BASAL AREA (SQ.FEET/ACRE)	CON	5.0			4.5		
	200	6.0	1.0	20.0	6.2	1.7	37.8
	400	7.6	2.6	52.0	6.9	2.4	53.3
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ.FEET/ACRE)	CON	4.8			4.4		
	200	6.1	1.3	27.1	6.2	1.8	40.9
	400	7.5	2.7	56.3	6.7	2.3	52.3

INSTALLATION 270 HOWARD CREEK
 REGION: MONTANA OWNERSHIP: CHAMPION
 LEGAL DESCRIPTION: T12N R23W SECTION 19 MERIDIAN: PRINCIPAL

SITE AND SOIL CHARACTERISTICS:

ELEVATION 4700 FEET
 SLOPE 43 PERCENT
 ASPECT 111 DEGREES
 DOUGLAS-FIR SITE INDEX 67.4 FEET AT 50 YEARS
 VEGETATION SERIES DOUGLAS-FIR
 PARENT MATERIAL COLLOVIUM
 ASH DEPTH NONE
 SOIL DEPTH DEEP (> 24 IN)
 TOTAL NITROGEN 1917 PPM
 TOTAL PHOSPHORUS 182 PPM
 CARBON 1.70 PERCENT
 MINERALIZABLE NITROGEN 44.2 PPM
 COARSE FRAGMENTS 51.3 PERCENT
 CORRECTED MINERALIZABLE N 21.2 PPM
 TOTAL SOIL MOISTURE 6.4 INCHES

STAND CHARACTERISTICS:

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

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE		
			DIFFERENCE	% OF CONTROL	
FOUR-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	11.6			
	200 # N	14.8	3.2	27.6	
	400 # N	14.2	2.6	22.4	
	CONTROL	11.4			
FOUR-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	200 # N	14.8	3.4	29.8	
	400 # N	14.0	2.6	22.8	
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	3.2			
	200 # N	4.0	0.8	25.0	
	400 # N	3.4	0.2	6.2	
	CONTROL	409			
FOUR-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	200 # N	482	73	17.8	
	400 # N	426	17	4.2	
FOUR-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	404			
	200 # N	481	77	19.1	
	400 # N	419	15	3.7	
			FIRST TWO YEARS	SECOND TWO YEARS	
			RESPONSE		
	TRT	INC	DIFF	%	
TWO-YEAR PERIODIC NET BASAL AREA (SQ.FEET/ACRE)	CON	5.8			
	200	7.6	1.8	31.0	
	400	7.8	2.0	34.5	
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ.FEET/ACRE)	CON	5.8			
	200	7.5	1.7	29.3	
	400	7.7	1.9	32.8	
			INC	DIFF	%
			5.8		
			7.3	1.5	25.9
			6.5	0.7	12.1
			5.6		
			7.3	1.7	30.4
			6.3	0.7	12.5

INSTALLATION 274 CAREYWOOD CREEK
 REGION: NORTHERN IDAHO OWNERSHIP: IDL
 LEGAL DESCRIPTION: T54N R2W SECTION 16 MERIDIAN: BOISE

SITE AND SOIL CHARACTERISTICS:

ELEVATION	2800 FEET
SLOPE	9 PERCENT
ASPECT	232 DEGREES
DOUGLAS-FIR SITE INDEX	78.0 FEET AT 50 YEARS
VEGETATION SERIES	GRAND FIR
PARENT MATERIAL	GLACIAL TILL
ASH DEPTH	MEDIUM (3 TO 12 IN)
SOIL DEPTH	DEEP (> 24 IN)
TOTAL NITROGEN	3322 PPM
TOTAL PHOSPHORUS	1447 PPM
CARBON	2.06 PERCENT
MINERALIZABLE NITROGEN	47.8 PPM
COARSE FRAGMENTS	22.7 PERCENT
CORRECTED MINERALIZABLE N	37.2 PPM
TOTAL SOIL MOISTURE	8.5 INCHES

STAND CHARACTERISTICS:

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

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE				
			DIFFERENCE	% OF CONTROL			
FOUR-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL 200 # N 400 # N	14.5 21.5 8.7	7.0 -5.8	48.3 -40.0			
FOUR-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL 200 # N 400 # N	14.5 21.5 20.3	7.0 5.8	48.3 40.0			
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL 200 # N 400 # N	2.7 3.8 4.3	1.1 1.6	40.7 59.3			
FOUR-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL 200 # N 400 # N	554 800 405	246 -149	44.4 -26.9			
FOUR-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL 200 # N 400 # N	554 800 771	246 217	44.4 39.2			
		FIRST TWO YEARS	SECOND TWO YEARS				
		RESPONSE		RESPONSE			
	TRT	INC	DIFF	%	INC	DIFF	%
TWO-YEAR PERIODIC NET BASAL AREA (SQ.FEET/ACRE)	CON 200 400	7.8 11.9 1.4	4.1 -6.4	52.6 -82.1	6.7 9.6 7.3	2.9 0.6	43.3 9.0
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ.FEET/ACRE)	CON 200 400	7.8 11.9 11.2	4.1 3.4	52.6 43.6	6.7 9.6 9.2	2.9 2.5	43.3 37.3

INSTALLATION 277 LITTLE MUD CREEK #2
 REGION: CENTRAL IDAHO OWNERSHIP: BOISE CASCADE
 LEGAL DESCRIPTION: T20N R1E SECTION 34 MERIDIAN: BOISE

SITE AND SOIL CHARACTERISTICS:

ELEVATION	4400 FEET
SLOPE	12 PERCENT
ASPECT	47 DEGREES
DOUGLAS-FIR SITE INDEX	60.3 FEET AT 50 YEARS
VEGETATION SERIES	DOUGLAS-FIR
PARENT MATERIAL	BASALT
ASH DEPTH	NONE
SOIL DEPTH	MODERATE (12 TO 24 IN)
TOTAL NITROGEN	1767 PPM
TOTAL PHOSPHORUS	1232 PPM
CARBON	2.40 PERCENT
MINERALIZABLE NITROGEN	46.5 PPM
COARSE FRAGMENTS	19.1 PERCENT
CORRECTED MINERALIZABLE N	38.0 PPM
TOTAL SOIL MOISTURE	8.3 INCHES

STAND CHARACTERISTICS:

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

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
FOUR-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	25.0		
	200 # N	27.3	2.3	9.2
	400 # N	23.2	-1.8	-7.2
FOUR-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	24.3		
	200 # N	27.1	2.8	11.5
	400 # N	23.2	-1.1	-4.5
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	4.8		
	200 # N	4.7	-0.1	-2.1
	400 # N	4.6	-0.2	-4.2
FOUR-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	859		
	200 # N	883	24	2.8
	400 # N	786	-73	-8.5
FOUR-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	834		
	200 # N	877	43	5.2
	400 # N	787	-47	-5.6
			FIRST TWO YEARS	
			RESPONSE	
	TRE	INC	DIFF	%
TWO-YEAR PERIODIC NET BASAL AREA (SQ.FEET/ACRE)	CON	12.0		
	200	13.1	1.1	9.2
	400	11.4	-0.6	-5.0
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ.FEET/ACRE)	CON	11.6		
	200	13.0	1.4	12.1
	400	11.4	-0.2	-1.7
			SECOND TWO YEARS	
			RESPONSE	
			INC	DIFF
			%	

INSTALLATION 279 HENRY CREEK
 REGION: CENTRAL IDAHO OWNERSHIP: BOISE CASCADE
 LEGAL DESCRIPTION: T7N R5E SECTION 28 MERIDIAN: BOISE

SITE AND SOIL CHARACTERISTICS:

ELEVATION	4600 FEET
SLOPE	24 PERCENT
ASPECT	307 DEGREES
DOUGLAS-FIR SITE INDEX	57.7 FEET AT 50 YEARS
VEGETATION SERIES	DOUGLAS-FIR
PARENT MATERIAL	GRANITE
ASH DEPTH	NONE
SOIL DEPTH	DEEP (> 24 IN)
TOTAL NITROGEN	784 PPM
TOTAL PHOSPHORUS	394 PPM
CARBON	1.32 PERCENT
MINERALIZABLE NITROGEN	27.2 PPM
COARSE FRAGMENTS	23.9 PERCENT
CORRECTED MINERALIZABLE N	21.0 PPM
TOTAL SOIL MOISTURE	7.4 INCHES

STAND CHARACTERISTICS:

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

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE				
			DIFFERENCE	% OF CONTROL			
FOUR-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL 200 # N 400 # N	19.1 19.2 22.6	0.1 3.5	0.5 18.3			
FOUR-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL 200 # N 400 # N	19.0 21.3 22.3	2.3 3.3	12.1 17.4			
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL 200 # N 400 # N	3.5 3.8 4.0	0.3 0.5	8.6 14.3			
FOUR-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL 200 # N 400 # N	712 751 822	39 110	5.5 15.4			
FOUR-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL 200 # N 400 # N	709 802 813	93 104	13.1 14.7			
		FIRST TWO YEARS	SECOND TWO YEARS				
		RESPONSE		RESPONSE			
	TRT	INC	DIFF	%	INC	DIFF	%
TWO-YEAR PERIODIC NET BASAL AREA (SQ.FEET/ACRE)	CON 200 400	9.7 8.8 11.2	-0.9 1.5	-9.3 15.5	9.4 10.4 11.4	1.0 2.0	10.6 21.3
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ.FEET/ACRE)	CON 200 400	9.7 10.9 11.1	1.2 1.4	12.4 14.4	9.4 10.4 11.2	1.0 1.8	10.6 19.1

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

SITE AND SOIL CHARACTERISTICS:

ELEVATION	4900 FEET
SLOPE	38 PERCENT
ASPECT	247 DEGREES
DOUGLAS-FIR SITE INDEX	65.3 FEET AT 50 YEARS
VEGETATION SERIES	DOUGLAS-FIR
PARENT MATERIAL	GRANITE
ASH DEPTH	NONE
SOIL DEPTH	DEEP (> 24 IN)
TOTAL NITROGEN	658 PPM
TOTAL PHOSPHORUS	180 PPM
CARBON	1.62 PERCENT
MINERALIZABLE NITROGEN	23.3 PPM
COARSE FRAGMENTS	29.5 PERCENT
CORRECTED MINERALIZABLE N	16.3 PPM
TOTAL SOIL MOISTURE	2.2 INCHES

STAND CHARACTERISTICS:

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

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
FOUR-YEAR NET BASAL AREA (SQ. FEET/ACRE)	CONTROL	13.8		
	200 # N	26.3	12.5	90.6
	400 # N	26.7	12.9	93.5
FOUR-YEAR GROSS BASAL AREA (SQ. FEET/ACRE)	CONTROL	19.5		
	200 # N	26.3	6.8	34.9
	400 # N	26.4	6.9	35.4
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	2.8		
	200 # N	3.6	0.8	28.6
	400 # N	3.8	1.0	35.7
FOUR-YEAR NET TOTAL VOLUME (CU. FEET/ACRE)	CONTROL	459		
	200 # N	824	365	79.5
	400 # N	866	407	88.7
FOUR-YEAR GROSS TOTAL VOLUME (CU. FEET/ACRE)	CONTROL	637		
	200 # N	824	187	29.4
	400 # N	857	220	34.5
			FIRST TWO YEARS	SECOND TWO YEARS
			RESPONSE	
	TRT	INC	DIFF	%
	CON	10.2		
TWO-YEAR PERIODIC NET BASAL AREA (SQ. FEET/ACRE)	200	13.6	3.4	33.3
	400	14.0	3.8	37.3
	CON	9.9		
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ. FEET/ACRE)	200	13.8	3.9	39.4
	400	13.9	4.0	40.4
	CON	9.6		
	200	12.5	2.9	30.2
	400	12.5	2.9	30.2

INSTALLATION 281 O'NEIL HILL
 REGION: NORTHERN IDAHO OWNERSHIP: POTLATCH
 LEGAL DESCRIPTION: T46N R1E SECTION 32 MERIDIAN: BOISE

SITE AND SOIL CHARACTERISTICS:

ELEVATION	3200 FEET
SLOPE	37 PERCENT
ASPECT	302 DEGREES
DOUGLAS-FIR SITE INDEX	88.9 FEET AT 50 YEARS
VEGETATION SERIES	WESTERN HEMLOCK
PARENT MATERIAL	ASH OVER METASEDIMENT
ASH DEPTH	DEEP { > 12 IN}
SOIL DEPTH	DEEP { > 24 IN}
TOTAL NITROGEN	1277 PPM
TOTAL PHOSPHORUS	1783 PPM
CARBON	1.75 PERCENT
MINERALIZABLE NITROGEN	40.2 PPM
COARSE FRAGMENTS	18.9 PERCENT
CORRECTED MINERALIZABLE N	32.7 PPM
TOTAL SOIL MOISTURE	8.1 INCHES

STAND CHARACTERISTICS:

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

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE		
			DIFFERENCE	% OF CONTROL	
FOUR-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	18.1			
	200 # N	16.0	-2.1	-11.6	
	400 # N	9.1	-9.0	-49.7	
FOUR-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	20.1			
	200 # N	22.4	2.3	11.4	
	400 # N	23.4	3.3	16.4	
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	3.7			
	200 # N	3.8	0.1	2.7	
	400 # N	4.3	0.6	16.2	
FOUR-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	838			
	200 # N	764	-74	-8.8	
	400 # N	656	-182	-21.7	
FOUR-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	880			
	200 # N	918	38	4.3	
	400 # N	973	93	10.6	
			FIRST TWO YEARS		
			RESPONSE		
	TRT	INC	DIFP	%	
TWO-YEAR PERIODIC NET BASAL AREA (SQ.FEET/ACRE)	CON	10.0			
	200	11.5	1.5	15.0	
	400	11.5	1.5	15.0	
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ.FEET/ACRE)	CON	10.6			
	200	12.0	1.4	13.2	
	400	11.9	1.3	12.3	
			SECOND TWO YEARS		
			RESPONSE		
			INC	DIFP	%
TWO-YEAR PERIODIC NET BASAL AREA (SQ.FEET/ACRE)	CON	10.0	8.1		
	200	11.5	4.5	-3.6	-44.4
	400	11.5	-2.4	-10.5	-129.6
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ.FEET/ACRE)	CON	10.6	9.5		
	200	12.0	10.4	0.9	9.5
	400	11.9	11.4	1.9	20.0

INSTALLATION 282 COOK MTN
 REGION: CENTRAL WASHINGTON OWNERSHIP: WASHINGTON DNR
 LEGAL DESCRIPTION: T33N R24E SECTION 15 MERIDIAN: WILLAMETTE

SITE AND SOIL CHARACTERISTICS:

ELEVATION	3400 FEET
SLOPE	17 PERCENT
ASPECT	348 DEGREES
DOUGLAS-FIR SITE INDEX	62.0 FEET AT 50 YEARS
VEGETATION SERIES	DOUGLAS-FIR
PARENT MATERIAL	GLACIAL TILL
ASH DEPTH	DEEP { > 12 IN)
SOIL DEPTH	DEEP { > 24 IN)
TOTAL NITROGEN	496 PPM
TOTAL PHOSPHORUS	1241 PPM
CARBON	1.03 PERCENT
MINERALIZABLE NITROGEN	14.3 PPM
COARSE FRAGMENTS	11.4 PERCENT
CORRECTED MINERALIZABLE N	12.8 PPM
TOTAL SOIL MOISTURE	15.0 INCHES

STAND CHARACTERISTICS:

INITIAL AGE	69 YEARS
INITIAL TREES PER ACRE	313 TREES/ACRE
INITIAL BASAL AREA	103.1 SQ.FEET/ACRE
INITIAL TOTAL VOLUME	2342 CU.FEET/ACRE
INITIAL CCF	126.6
RELATIVE DENSITY INDEX	36.9
MEAN DIAMETER	7.8 INCHES
SITE HEIGHT (40 TPA)	66.1 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	88.3 PERCENT
WESTERN LARCH	6.8 PERCENT
PONDEROSA PINE	4.8 PERCENT

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
FOUR-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	18.6		
	200 # N	26.1	7.5	40.3
	400 # N	28.1	9.5	51.1
FOUR-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	18.7		
	200 # N	26.7	8.0	42.8
	400 # N	27.9	9.2	49.2
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	3.2		
	200 # N	4.7	1.5	46.9
	400 # N	4.8	1.6	50.0
FOUR-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	521		
	200 # N	775	254	48.8
	400 # N	795	274	52.6
FOUR-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	524		
	200 # N	783	259	49.4
	400 # N	791	267	51.0
			FIRST TWO YEARS	
			RESPONSE	
	TRT	INC	DIFP	%
TWO-YEAR PERIODIC NET BASAL AREA (SQ.FEET/ACRE)	CON	11.8		
	200	17.0	5.2	44.1
	400	18.2	6.4	54.2
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ.FEET/ACRE)	CON	11.8		
	200	17.1	5.3	44.9
	400	18.1	6.3	53.4
			SECOND TWO YEARS	
			RESPONSE	
			INC	DIFP
				%

INSTALLATION 283 SUMMIT CREEK
 REGION: CENTRAL WASHINGTON OWNERSHIP: WASHINGTON DNR
 LEGAL DESCRIPTION: T33N R24E SECTION 4 MERIDIAN: WILLAMETTE

SITE AND SOIL CHARACTERISTICS:

ELEVATION	3250 FEET
SLOPE	9 PERCENT
ASPECT	61 DEGREES
DOUGLAS-FIR SITE INDEX	57.0 FEET AT 50 YEARS
VEGETATION SERIES	DOUGLAS-FIR
PARENT MATERIAL	GLACIAL TILL
ASH DEPTH	DEEP { > 12 IN)
SOIL DEPTH	DEEP { > 24 IN)
TOTAL NITROGEN	425 PPM
TOTAL PHOSPHORUS	753 PPM
CARBON	0.85 PERCENT
MINERALIZABLE NITROGEN	12.8 PPM
COARSE FRAGMENTS	11.9 PERCENT
CORRECTED MINERALIZABLE N	11.3 PPM
TOTAL SOIL MOISTURE	15.6 INCHES

STAND CHARACTERISTICS:

INITIAL AGE	75 YEARS
INITIAL TREES PER ACRE	283 TREES/ACRE
INITIAL BASAL AREA	97.5 SQ.FEET/ACRE
INITIAL TOTAL VOLUME	2118 CU.FEET/ACRE
INITIAL CCF	119.7
RELATIVE DENSITY INDEX	34.6
MEAN DIAMETER	7.9 INCHES
SITE HEIGHT (40 TPA)	60.9 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	88.6 PERCENT
WESTERN LARCH	4.7 PERCENT
LOGEPOLE PINE	5.9 PERCENT
PONDEROSA PINE	0.8 PERCENT

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE		
			DIFFERENCE	% OF CONTROL	
FOUR-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	18.1			
	200 # N	28.1	10.0	55.2	
	400 # N	35.9	17.8	98.3	
FOUR-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	18.2			
	200 # N	28.1	9.9	54.4	
	400 # N	36.0	17.8	97.8	
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	3.1			
	200 # N	4.6	1.5	48.4	
	400 # N	5.8	2.7	87.1	
FOUR-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	497			
	200 # N	755	258	51.9	
	400 # N	956	459	92.4	
FOUR-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	500			
	200 # N	755	255	51.0	
	400 # N	959	459	91.8	
	<u>FIRST TWO YEARS</u>				
	<u>RESPONSE</u>				
	TRT	INC	DIFF	%	
	<u>SECOND TWO YEARS</u>				
	<u>RESPONSE</u>				
	INC	DIFF	%		
	TWO-YEAR PERIODIC NET BASAL AREA (SQ.FEET/ACRE)	CON	11.0		
		200	16.8	5.8	52.7
	400	21.2	10.2	92.7	
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ.FEET/ACRE)	CON	11.0			
	200	16.8	5.8	52.7	
	400	21.2	10.2	92.7	
	CON	7.2			
	200	11.3	4.1	56.9	
	400	14.7	7.5	104.2	
	CON	7.3			
	200	11.4	4.1	56.2	
	400	14.9	7.6	104.1	

INSTALLATION 284 N. F. VALLEY CREEK
 REGION: MONTANA OWNERSHIP: FLATHEAD (BIA)
 LEGAL DESCRIPTION: T17N R21W SECTION 22 MERIDIAN: PRINCIPAL

SITE AND SOIL CHARACTERISTICS:

ELEVATION 3600 FEET
 SLOPE 11 PERCENT
 ASPECT 60 DEGREES
 DOUGLAS-FIR SITE INDEX 64.6 FEET AT 50 YEARS
 VEGETATION SERIES DOUGLAS-FIR
 PARENT MATERIAL VALLEY FILL
 ASH DEPTH NONE
 SOIL DEPTH MODERATE (12 TO 24 IN)
 TOTAL NITROGEN 2228 PPM
 TOTAL PHOSPHORUS 339 PPM
 CARBON 3.17 PERCENT
 MINERALIZABLE NITROGEN 76.2 PPM
 COARSE FRAGMENTS 35.2 PERCENT
 CORRECTED MINERALIZABLE N 49.2 PPM
 TOTAL SOIL MOISTURE 2.5 INCHES

STAND CHARACTERISTICS:

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

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
FOUR-YEAR NET BASAL AREA (SQ. FEET/ACRE)	CONTROL	13.2		
	200 # N	12.1	-1.1	-8.3
	400 # N	12.7	-0.5	-3.8
FOUR-YEAR GROSS BASAL AREA (SQ. FEET/ACRE)	CONTROL	12.6		
	200 # N	12.1	-0.5	-4.0
	400 # N	12.4	-0.2	-1.6
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	2.0		
	200 # N	2.1	0.1	5.0
	400 # N	2.0	0.0	0.0
FOUR-YEAR NET TOTAL VOLUME (CU. FEET/ACRE)	CONTROL	437		
	200 # N	446	9	2.1
	400 # N	420	-17	-3.9
FOUR-YEAR GROSS TOTAL VOLUME (CU. FEET/ACRE)	CONTROL	414		
	200 # N	445	31	7.5
	400 # N	409	-5	-1.2
			FIRST TWO YEARS	
			RESPONSE	
	TBT	INC	DIFF	%
TWO-YEAR PERIODIC NET BASAL AREA (SQ. FEET/ACRE)	CON	7.6		
	200	6.5	-1.1	-14.5
	400	6.8	-0.8	-10.5
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ. FEET/ACRE)	CON	7.2		
	200	6.6	-0.6	-8.3
	400	6.6	-0.6	-8.3
			SECOND TWO YEARS	
			RESPONSE	
		INC	DIFF	%
TWO-YEAR PERIODIC NET BASAL AREA (SQ. FEET/ACRE)	CON	5.7		
	200	5.5	-0.2	-3.5
	400	6.0	0.3	5.3
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ. FEET/ACRE)	CON	5.4		
	200	5.5	0.1	1.9
	400	5.8	0.4	7.4

INSTALLATION 285 S. P. VALLEY CREEK
REGION: MONTANA OWNERSHIP: FLATHEAD (BIA)
LEGAL DESCRIPTION: T16N R21W SECTION 2 MERIDIAN: PRINCIPAL

SITE AND SOIL CHARACTERISTICS:

ELEVATION	3600 FEET
SLOPE	17 PERCENT
ASPECT	107 DEGREES
DOUGLAS-FIR SITE INDEX	60.0 FEET AT 50 YEARS
VEGETATION SERIES	DOUGLAS-FIR
PARENT MATERIAL	VALLEY FILL
ASH DEPTH	NONE
SOIL DEPTH	DEEP (> 24 IN)
TOTAL NITROGEN	1614 PPM
TOTAL PHOSPHORUS	366 PPM
CARBON	2.26 PERCENT
MINERALIZABLE NITROGEN	53.5 PPM
COARSE FRAGMENTS	21.2 PERCENT
CORRECTED MINERALIZABLE N	42.5 PPM
TOTAL SOIL MOISTURE	11.9 INCHES

STAND CHARACTERISTICS:

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

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE		
			DIFFERENCE	% OF CONTROL	
FOUR-YEAR NET	CONTROL	8.1			
BASAL AREA	200 # N	11.2	3.1	38.3	
(SQ. FEET/ACRE)	400 # N	7.7	-0.4	-4.9	
FOUR-YEAR GROSS	CONTROL	8.1			
BASAL AREA	200 # N	11.2	3.1	38.3	
(SQ. FEET/ACRE)	400 # N	11.8	3.7	45.7	
FOUR-YEAR	CONTROL	2.0			
AVERAGE HEIGHT	200 # N	2.4	0.4	20.0	
(FEET/TREE)	400 # N	2.7	0.7	35.0	
FOUR-YEAR NET	CONTROL	273			
TOTAL VOLUME	200 # N	368	95	34.8	
(CU. FEET/ACRE)	400 # N	304	31	11.4	
FOUR-YEAR GROSS	CONTROL	273			
TOTAL VOLUME	200 # N	368	95	34.8	
(CU. FEET/ACRE)	400 # N	395	122	44.7	
			FIRST TWO YEARS	SECOND TWO YEARS	
			RESPONSE		
	TRT	INC	DIFP	%	
TWO-YEAR PERIODIC	CON	3.7			
NET BASAL AREA	200	5.2	1.5	40.5	
(SQ. FEET/ACRE)	400	5.7	2.0	54.1	
TWO-YEAR PERIODIC	CON	3.6			
GROSS BASAL AREA	200	5.3	1.7	47.2	
(SQ. FEET/ACRE)	400	5.7	2.1	58.3	
			INC	DIFP	%
			4.5		
			5.9	1.4	31.1
			2.1	-2.4	-53.3
			4.5		
			5.9	1.4	31.1
			6.2	1.7	37.8

INSTALLATION 286 BLACK ROCK CREEK
 REGION: NORTHERN IDAHO OWNERSHIP: BLM (IDAHO)
 LEGAL DESCRIPTION: T48N R1W SECTION 8 MERIDIAN: BOISE

SITE AND SOIL CHARACTERISTICS:

ELEVATION	2500 FEET
SLOPE	45 PERCENT
ASPECT	324 DEGREES
DOUGLAS-FIR SITE INDEX	71.9 FEET AT 50 YEARS
VEGETATION SERIES	GRAND FIR
PARENT MATERIAL	ASH OVER METASEDIMENT
ASH DEPTH	SHALLOW (< 3 IN)
SOIL DEPTH	DEEP (> 24 IN)
TOTAL NITROGEN	1558 PPM
TOTAL PHOSPHORUS	549 PPM
CARBON	2.68 PERCENT
MINERALIZABLE NITROGEN	62.0 PPM
COARSE FRAGMENTS	41.8 PERCENT
CORRECTED MINERALIZABLE N	35.8 PPM
TOTAL SOIL MOISTURE	4.1 INCHES

STAND CHARACTERISTICS:

INITIAL AGE	83 YEARS
INITIAL TREES PER ACRE	240 TREES/ACRE
INITIAL BASAL AREA	212.0 SQ.FEET/ACRE
INITIAL TOTAL VOLUME	6694 CU.FEET/ACRE
INITIAL CCF	220.2
RELATIVE DENSITY INDEX	59.4
MEAN DIAMETER	12.8 INCHES
SITE HEIGHT (40 TPA)	93.7 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	100.0 PERCENT

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
FOUR-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	16.4		
	200 # N	19.2	2.8	17.1
	400 # N	24.6	8.2	50.0
FOUR-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	16.6		
	200 # N	19.5	2.9	17.5
	400 # N	23.6	7.0	42.2
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	2.9		
	200 # N	3.9	1.0	34.5
	400 # N	3.7	0.8	27.6
FOUR-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	748		
	200 # N	916	168	22.5
	400 # N	1041	293	39.2
FOUR-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	755		
	200 # N	928	173	22.9
	400 # N	1006	251	33.2
			FIRST TWO YEARS	
			RESPONSE	
	TRT	INC	DIFF	%
	---	---	---	---
TWO-YEAR PERIODIC NET BASAL AREA (SQ.FEET/ACRE)	CON	7.7		
	200	10.2	2.5	32.5
	400	13.3	5.6	72.7
			SECOND TWO YEARS	
			RESPONSE	
	TRT	INC	DIFF	%
	---	---	---	---
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ.FEET/ACRE)	CON	7.8		
	200	10.5	2.7	34.6
	400	12.8	5.0	64.1

INSTALLATION 287 JIM FORD CREEK
 REGION: NORTHERN IDAHO OWNERSHIP: POTLATCH
 LEGAL DESCRIPTION: T35N R4E SECTION 8 MERIDIAN: BOISE

SITE AND SOIL CHARACTERISTICS:

ELEVATION	3150 FEET
SLOPE	6 PERCENT
ASPECT	2 DEGREES
DOUGLAS-FIR SITE INDEX	71.5 FEET AT 50 YEARS
VEGETATION SERIES	GRAND FIR
PARENT MATERIAL	ASH AND/OR LOESS
ASH DEPTH	SHALLOW (< 3 IN)
SOIL DEPTH	DEEP (> 24 IN)
TOTAL NITROGEN	634 PPM
TOTAL PHOSPHORUS	466 PPM
CARBON	0.84 PERCENT
MINERALIZABLE NITROGEN	20.7 PPM
COARSE FRAGMENTS	9.0 PERCENT
CORRECTED MINERALIZABLE N	19.0 PPM
TOTAL SOIL MOISTURE	19.4 INCHES

STAND CHARACTERISTICS:

INITIAL AGE	57 YEARS
INITIAL TREES PER ACRE	433 TREES/ACRE
INITIAL BASAL AREA	174.0 SQ. FEET/ACRE
INITIAL TOTAL VOLUME	4486 CU. FEET/ACRE
INITIAL CCF	209.2
RELATIVE DENSITY INDEX	59.3
MEAN DIAMETER	8.6 INCHES
SITE HEIGHT (40 TPA)	76.1 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	82.2 PERCENT
GRAND FIR	5.5 PERCENT
WESTERN LARCH	11.5 PERCENT
LODGEPOLE PINE	0.3 PERCENT
PONDEROSA PINE	0.5 PERCENT

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
FOUR-YEAR NET BASAL AREA (SQ. FEET/ACRE)	CONTROL	15.6		
	200 # N	24.9	9.3	59.6
	400 # N	24.3	8.7	55.8
FOUR-YEAR GROSS BASAL AREA (SQ. FEET/ACRE)	CONTROL	15.5		
	200 # N	24.7	9.2	59.4
	400 # N	24.8	9.3	60.0
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	3.9		
	200 # N	4.6	0.7	17.9
	400 # N	4.9	1.0	25.6
FOUR-YEAR NET TOTAL VOLUME (CU. FEET/ACRE)	CONTROL	666		
	200 # N	953	287	43.1
	400 # N	992	326	48.9
FOUR-YEAR GROSS TOTAL VOLUME (CU. FEET/ACRE)	CONTROL	661		
	200 # N	946	285	43.1
	400 # N	1009	348	52.6
			FIRST TWO YEARS	
			RESPONSE	
	TRT	INC	DIFF	%
TWO-YEAR PERIODIC NET BASAL AREA (SQ. FEET/ACRE)	CON	7.8		
	200	13.5	5.7	73.1
	400	13.3	5.5	70.5
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ. FEET/ACRE)	CON	7.7		
	200	13.3	5.6	72.7
	400	13.5	5.8	75.3
			SECOND TWO YEARS	
			RESPONSE	
			INC	DIFF
				%

INSTALLATION 288 MICA MTN
 REGION: NORTHERN IDAHO OWNERSHIP: INLAND EMPIRE
 LEGAL DESCRIPTION: T49N R5W SECTION 33 MERIDIAN: BOISE

SITE AND SOIL CHARACTERISTICS:

ELEVATION	3400 FEET
SLOPE	21 PERCENT
ASPECT	184 DEGREES
DOUGLAS-FIR SITE INDEX	87.7 FEET AT 50 YEARS
VEGETATION SERIES	GRAND FIR
PARENT MATERIAL	ASH AND/OR LOESS
ASH DEPTH	MEDIUM (3 TO 12 IN)
SOIL DEPTH	DEEP (> 24 IN)
TOTAL NITROGEN	1156 PPM
TOTAL PHOSPHORUS	471 PPM
CARBON	1.72 PERCENT
MINERALIZABLE NITROGEN	60.0 PPM
COARSE FRAGMENTS	16.5 PERCENT
CORRECTED MINERALIZABLE N	49.8 PPM
TOTAL SOIL MOISTURE	10.6 INCHES

STAND CHARACTERISTICS:

INITIAL AGE	54 YEARS
INITIAL TREES PER ACRE	310 TREES/ACRE
INITIAL BASAL AREA	256.2 SQ.FEET/ACRE
INITIAL TOTAL VOLUME	7994 CU.FEET/ACRE
INITIAL CCF	253.7
RELATIVE DENSITY INDEX	72.9
MEAN DIAMETER	12.4 INCHES
SITE HEIGHT (40 TPA)	91.8 FEET
SPECIES COMPOSITION (% OF TOTAL BA)	
DOUGLAS-FIR	83.8 PERCENT
GRAND FIR	2.4 PERCENT
WESTERN REDCEDAR	0.5 PERCENT
WESTERN LARCH	3.9 PERCENT
PONDEROSA PINE	9.5 PERCENT

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE				
			DIFFERENCE	% OF CONTROL			
FOUR-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	23.0					
	200 # N	31.1	8.1	35.2			
	400 # N	25.1	2.1	9.1			
FOUR-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	22.5					
	200 # N	31.5	9.0	40.0			
	400 # N	26.3	3.8	16.9			
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	3.3					
	200 # N	4.7	1.4	42.4			
	400 # N	4.7	1.4	42.4			
FOUR-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	1138					
	200 # N	1411	273	24.0			
	400 # N	1372	234	20.6			
FOUR-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	1122					
	200 # N	1408	286	25.5			
	400 # N	1412	290	25.8			
		FIRST TWO YEARS		SECOND TWO YEARS			
		RESPONSE		RESPONSE			
	TRT	INC	DIFF	%	INC	DIFF	%
TWO-YEAR PERIODIC NET BASAL AREA (SQ.FEET/ACRE)	CON	13.1			9.9		
	200	18.6	5.5	42.0	12.5	2.6	26.3
	400	13.9	0.8	6.1	11.1	1.2	12.1
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ.FEET/ACRE)	CON	12.8			9.7		
	200	18.2	5.4	42.2	13.3	3.6	37.1
	400	14.5	1.7	13.3	11.8	2.1	21.6

INSTALLATION 289 GROUSE MTN
 REGION: NORTHEAST WASHINGTON OWNERSHIP: INLAND EMPIRE
 LEGAL DESCRIPTION: T40N R40E SECTION 8 MERIDIAN: WILLAMETTE

SITE AND SOIL CHARACTERISTICS:

ELEVATION	2800 FEET
SLOPE	20 PERCENT
ASPECT	87 DEGREES
DOUGLAS-FIR SITE INDEX	82.5 FEET AT 50 YEARS
VEGETATION SERIES	DOUGLAS-FIR
PARENT MATERIAL	GLACIAL TILL
ASH DEPTH	TRACE
SOIL DEPTH	DEEP (> 24 IN)
TOTAL NITROGEN	1985 PPM
TOTAL PHOSPHORUS	1601 PPM
CARBON	2.40 PERCENT
MINERALIZABLE NITROGEN	70.8 PPM
COARSE FRAGMENTS	38.0 PERCENT
CORRECTED MINERALIZABLE N	42.0 PPM
TOTAL SOIL MOISTURE	12.6 INCHES

STAND CHARACTERISTICS:

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

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE	
			DIFFERENCE	% OF CONTROL
FOUR-YEAR NET BASAL AREA (SQ. FEET/ACRE)	CONTROL	17.1		
	200 # N	23.5	6.4	37.4
	400 # N	26.8	9.7	56.7
FOUR-YEAR GROSS BASAL AREA (SQ. FEET/ACRE)	CONTROL	25.3		
	200 # N	26.0	0.7	2.8
	400 # N	28.0	2.7	10.7
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	4.6		
	200 # N	4.1	-0.5	-10.9
	400 # N	4.6	0.0	0.0
FOUR-YEAR NET TOTAL VOLUME (CU. FEET/ACRE)	CONTROL	807		
	200 # N	982	175	21.7
	400 # N	1021	214	26.5
FOUR-YEAR GROSS TOTAL VOLUME (CU. FEET/ACRE)	CONTROL	994		
	200 # N	1030	36	3.6
	400 # N	1050	56	5.6
			FIRST TWO YEARS	
			RESPONSE	
	TRT	INC	DIFF	%
TWO-YEAR PERIODIC NET BASAL AREA (SQ. FEET/ACRE)	CON	10.7		
	200	14.4	3.7	34.6
	400	15.7	5.0	46.7
			SECOND TWO YEARS	
			RESPONSE	
	TRT	INC	DIFF	%
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ. FEET/ACRE)	CON	14.5		
	200	15.5	1.0	6.9
	400	16.5	2.0	13.8
			10.8	
			10.6	-0.2
			11.5	0.7
				-1.9
				6.5

INSTALLATION 290 GRASS MTN
 REGION: NORTHEAST WASHINGTON OWNERSHIP: INLAND EMPIRE
 LEGAL DESCRIPTION: T39N R40E SECTION 1 MERIDIAN: WILLAMETTE

SITE AND SOIL CHARACTERISTICS:

ELEVATION 3800 FEET
 SLOPE 22 PERCENT
 ASPECT 245 DEGREES
 DOUGLAS-FIR SITE INDEX 61.4 FEET AT 50 YEARS
 VEGETATION SERIES DOUGLAS-FIR
 PARENT MATERIAL BASALT
 ASH DEPTH SHALLOW (< 3 IN)
 SOIL DEPTH MODERATE (12 TO 24 IN)
 TOTAL NITROGEN 1586 PPM
 TOTAL PHOSPHORUS 1369 PPM
 CARBON 2.50 PERCENT
 MINERALIZABLE NITROGEN 76.0 PPM
 COARSE FRAGMENTS 33.0 PERCENT
 CORRECTED MINERALIZABLE N 50.7 PPM
 TOTAL SOIL MOISTURE 8.7 INCHES

STAND CHARACTERISTICS:

INITIAL AGE 75 YEARS
 INITIAL TREES PER ACRE 487 TREES/ACRE
 INITIAL BASAL AREA 207.0 SQ.FEET/ACRE
 INITIAL TOTAL VOLUME 5590 CU.FEET/ACRE
 INITIAL CCF 247.0
 RELATIVE DENSITY INDEX 69.5
 MEAN DIAMETER 8.9 INCHES
 SITE HEIGHT (40 TPA) 79.1 FEET
 SPECIES COMPOSITION (% OF TOTAL BA)
 DOUGLAS-FIR 96.3 PERCENT
 GRAND FIR 0.6 PERCENT
 WESTERN LARCH 2.4 PERCENT
 LODGEPOLE PINE 0.3 PERCENT
 PONDEROSA PINE 0.5 PERCENT

GROWTH:

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

	TREATMENT	INCREMENT	RESPONSE				
			DIFFERENCE	% OF CONTROL			
FOUR-YEAR NET BASAL AREA (SQ.FEET/ACRE)	CONTROL	-6.1					
	200 # N	10.6	16.7	273.8			
	400 # N	-10	-4.0	-65.6			
FOUR-YEAR GROSS BASAL AREA (SQ.FEET/ACRE)	CONTROL	17.7					
	200 # N	20.9	3.2	18.1			
	400 # N	21.2	3.5	19.8			
FOUR-YEAR AVERAGE HEIGHT (FEET/TREE)	CONTROL	2.3					
	200 # N	2.4	0.1	4.3			
	400 # N	2.3	0.0	0.0			
FOUR-YEAR NET TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	20					
	200 # N	501	481	2405.0			
	400 # N	-63	-83	-415.0			
FOUR-YEAR GROSS TOTAL VOLUME (CU.FEET/ACRE)	CONTROL	677					
	200 # N	725	48	7.1			
	400 # N	728	51	7.5			
			FIRST TWO YEARS		SECOND TWO YEARS		
			RESPONSE				
	TRT	INC	DIFF	%	INC	DIFF	%
TWO-YEAR PERIODIC NET BASAL AREA (SQ.FEET/ACRE)	CON	8.6			-15		
	200	10.7	2.1	24.4	-0.1	14.6	99.3
	400	11.3	2.7	31.4	-22	-6.8	-46.3
TWO-YEAR PERIODIC GROSS BASAL AREA (SQ.FEET/ACRE)	CON	9.3			8.4		
	200	10.4	1.1	11.8	10.5	2.1	25.0
	400	12.1	2.8	30.1	9.2	0.8	9.5