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Summary of the Coop's Databases

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The various codes used in the stem analysis and permanent plot data are given herein. The geographical extent of the permanent plot data base is presented along with basic summaries of the number of plots by region, timber type and stocking classes. For the stem analysis data base, the geographical extent and the stocking levels are given.

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COOP CODES

SPECIES

01 Ponderosa Pine
02 Sugar Pine
03 Lodgepole Pine
04 White Pine
05 Jeffrey Pine
12 Cedar misc.
14 Douglas Fir
21 White Fir
22 Red Fir
39 Hardwoods misc.
42 Chinquapin
46 Black Oak
47 Tan Oak
50 Conifers misc.

Damage/Disease

0 Healthy
1 Insect (crown)
2 Insect (bole)
3 Conks
4 Mistletoe
5 Fire
6 Bole scar
7 Broken or dying top
8 Other crown damage (note)
9 Other bole damage (note)
10 Forked top

Status

0,1 Live tree
2 Dead tree
3 Harvested tree

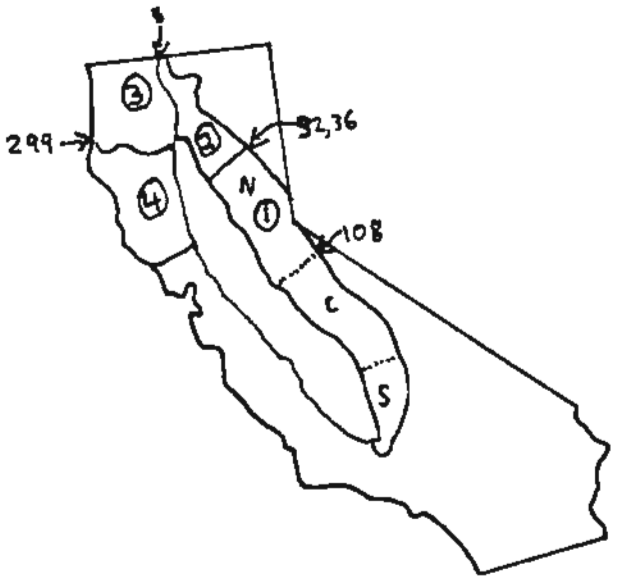
Forest Type

MC Mixed Conifer -- 4
PP Ponderosa Pine - 1
DF Douglas Fir -- 2
TF True Fir -- 3

COOP CODES

Region

1. Northern Sierra-- Sierra South of highways 32 &36
2. Southern Cascades-- East of 15 and North of 32 & 36
3. Shasta Trinity-- West of 15
4. Mendocino-- the Eastern Mendocino Range



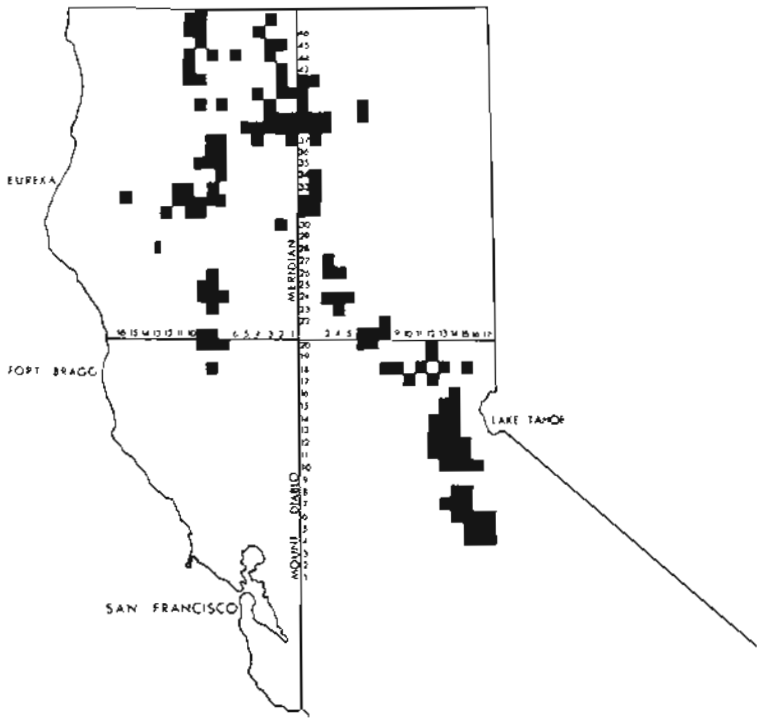
Site Index

COOP CODE	Old Growth Site Index
1	A-200
2	I-175
3	II-150
4	III-125
5	IV-100 or poorer

Location: 40

11	12	13	14
21	22	23	24
31	32	33	34
41	42	43	44

Figure . Location of study plots by township.



Tables of Permanent Plot Distribution

No. of Plots by Site and Region Classes

Site

Region	.	1	2	3	4	5	6	TOTAL
.	2	0	0	0	0	0	0	.
1	0	55	123	74	10	5	0	267
2	7	67	81	53	32	13	1	247
3	4	18	30	33	19	4	0	104
4	2	0	15	26	21	20	0	82
TOTAL	.	140	249	186	82	42	1	700

No. of Plots by Region and Timber Type Classes

Timber Type

Region	DF	MC	PP	TF	TOTAL
.	0	2	0	0	.
1	1	225	13	28	267
2	9	162	41	42	254
3	11	79	9	9	108
4	8	67	3	6	84
TOTAL	29	533	66	85	713

No. of Plots by Region and Basal Area Classes

Basal Area

Region	.	LESS 100	101TO150	151TO200	201TO300	301UP	TOTAL
.	2	0	0	0	0	0	.
1	23	47	41	63	78	15	244
2	3	60	49	53	69	20	251
3	0	47	32	20	8	1	108
4	0	33	25	18	7	1	84
TOTAL	.	187	147	154	162	37	687

No. of Plots by Region and Trees Per Acre

Trees Per Acre

Region	.	LESS 100	101TO200	201TO300	301TO400	401UP	TOTAL
.	2	0	0	0	0	0	.
1	24	65	116	50	8	4	243
2	3	55	122	55	17	2	251
3	3	34	59	11	1	0	105
4	0	49	27	6	2	0	84
TOTAL	.	203	324	122	28	6	683

No. of Plots by Site and Basal Area Classes

Basal Area

Site Class	.	= 100	101-150	151-200	201-300	301+	Total
.	3	9	0	0	3	0	.
1	0	12	21	35	58	14	140
2	15	43	53	60	63	15	234
3	7	58	43	43	27	8	179
4	1	37	21	14	9	0	81
5	2	27	9	2	2	0	40
6	0	1	0	0	0	0	1
TOTAL	.	178	147	154	159	37	675

No. of Plots by Site and Timber Type Classes

Timber Type

Site	DF	MC	PP	TF	TOTAL
.	1	13	1	0	.
1	6	99	15	20	140
2	11	199	14	25	249
3	6	136	18	26	186
4	2	58	14	8	82
5	3	30	4	5	42
6	0	0	0	1	1
TOTAL	28	522	65	85	700

No. of Plots by Site and Trees per Acre Classes

Trees per Acre

Site	.	LESS 100	101TO200	201TO300	301TO400	401UP	TOTAL
.	4	7	2	1	1	0	.
1	0	24	79	32	5	0	140
2	15	57	112	47	15	3	234
3	9	59	82	29	5	2	177
4	1	33	35	11	1	1	81
5	3	22	14	2	1	0	39
6	0	1	0	0	0	0	1
TOTAL	.	196	322	121	27	6	672

No. of Plots by Timber Type and Basal Area Classes

Basal Area

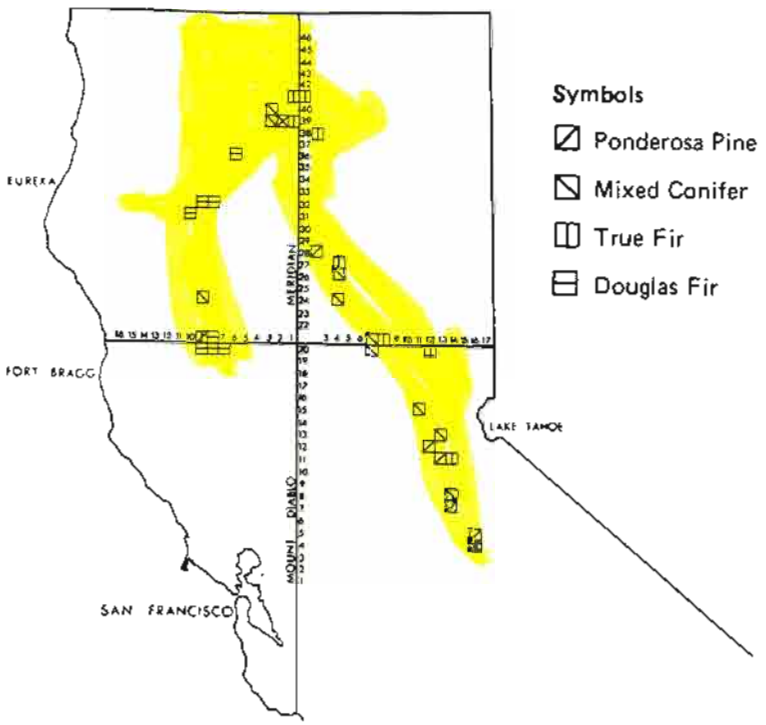
Timber Type	.	LESS 100	101TO150	151TO200	201TO300	301UP	TOTAL
DF	0	10	6	8	4	1	29
MC	28	134	109	113	123	28	507
PP	0	23	12	13	18	0	66
TF	0	20	20	20	17	8	85
TOTAL	.	187	147	154	162	37	687

No. of Plots by Timber Type and Trees per Acre Classes

Trees per Acre

Timber Type	.	LESS 100	101TO200	201TO300	301TO400	401UP	TOTAL
DF	0	11	15	3	0	0	29
MC	32	147	238	93	21	4	503
PP	0	23	26	11	5	1	66
TF	0	22	45	15	2	1	85
TOTAL	.	203	324	122	28	6	683

Figure . Location of stem analysis plots.



NUMBER OF TREES IN STEM ANALYSIS DATA BASE

		NON-FELLED									FELLED						
CLUST	REG	PP	SP	IC	DF	WF	RF	MH	MC	TOT	PP	SP	IC	DF	WF	RF	TOT
1	1	6		9		208		3		226	5				30		35
2	1	33	1	41	26	38		23		162	7	1	8	9	13		38
3	1	21	14	73	3	51		6		168	5	3	8	1	19		36
4	1	76	5	41	2			1		125	18	9	6		1		34
21	2	5		6		53				64	1				23		24
22	2	14		2		30				46	2		1		19		22
23	2	3	3	7	7	13				33	1	2	5	2	14		24
24	3	2		6	57			3		68	1			25			26
25	3				55			14		69				29			29
28	2	24								24	22						22
29	2	1	4	48	20	24				97			13	13	8		34
41	2	61		7	19	9		65	1	162	20		4	6			30
42	2	32	18	20	17	128		8		223	7	9	2	5	13		36
43	2	1	48	1	1	106	41		117	315		4			18	12	34
44	2	96		5						101	29		1				30
51	2	14	12	5		108				139	4	5			27		36
52	2	1	9			222				232	1	11			27		39
71	1	41	1	3	18	3				67	14	2	2	12	4		34
72	1	13	27	30	27	6				103	5	13	7	6	3		34
73	1		2	23		64				89		1	1		28		30
81	1	26	7	23		14				170	19	2	5		8		34
82	1	23	31	41		7		3		105	7	13	8		11		39
84	1		3	5		149		1		158					30		30
85	1	11	7	89	1	9		5		222	21	3	6				30
91	1	4	1	55		76				136	1		7		22		30
92	1	51		34	3	1				89	20		8	1			29
93	1	57	2	10	1	2				72	26	1	2				29
101	2	1				97			5	103	1	1			28		30
102	1					11	176			187						30	30
103	3	4		1	107			25		137	2			28			30
104	3	6			87			30		123	1	1		28			30
111	4				31	10				41				9	2		11
112	4	9		5	29	2				45	2		1	5			8
113	4	31			34				1	66	6			4			10
114	4	13			9					22	6			6			12
115	4	1			32	1				34				6	2		8
116	4	6	2	1	20	8				37	1			9			10
117	4		3		7	65				75				2	7	1	10
118	4		6	2	3	12				23		4	1		5		10
REGION=1		562	101	477	81	639	176	42	1	2079	145	48	64	29	168	30	492
REGION=2		253	94	101	64	790	41	73	123	1539	88	32	26	26	177	12	361
REGION=3		12		7	306			72	1	397	4	1		110			115
REGION=4		60	11	8	165	98				343	15	4	2	41	16	1	79

TOTAL NON-FELLED TREES= 4358 FELLED TREES= 1047

BASAL AREA PER ACRE FOR TREES WITH DBH >= 6"
(By Cluster and Species)

CLUSTER	PP	SP	IC	DF	WF	RF	MH	MC	TOTAL
1	46.6		21.0		194.3		5.2		209.9
2	43.4	8.1	32.0	38.8	48.5		35.4		202.6
3	37.4	21.4	30.7	24.8	82.5		42.3		197.4
4	114.4	22.4	41.7	4.3	2.4		10.5		185.8
21	2.9		4.1		72.1				76.1
22	19.6		1.9		91.2				111.5
23	23.1	69.6	29.2	16.9	66.4				137.8
24	19.9		3.8	57.8			20.0		70.2
25				178.2			18.5		196.8
28	199.8								199.8
29	17.0	10.1	66.2	82.8	19.7				175.5
41	196.6		12.8	22.5	10.7		15.9		277.7
42	57.0	40.2	8.8	30.2	107.0		4.5		244.6
43	19.3	71.2	1.0	0.8	92.5	79.8			250.0
44	228.2		7.7						233.4
51	47.3	38.9	6.9		192.3				252.1
52	11.2	62.8			185.7				248.5
71	130.6	20.0	26.5	70.2	25.5				194.9
72	56.4	90.6	27.3	44.0	9.7				225.6
73		6.7	24.7		178.4				207.5
81	186.6	27.4	50.8		30.7				281.5
82	29.2	79.7	26.8		58.4		33.9		178.5
84			4.4		257.5		2.7		258.3
85	174.8	18.5	56.6	2.8	5.3		62.5		304.6
91	44.1	0.9	66.7		80.1				176.2
92	191.8		32.5	14.4	2.4				226.7
93	158.4	13.0	57.4	48.6	10.1				221.6
101	11.3	9.3			173.4			17.5	191.3
102					12.5	255.4			263.8
103	7.9		2.3	124.5			11.5		141.7
104	5.7	11.3		77.5			19.5		100.9
111				107.7	37.2				145.0
112	42.7		27.9	88.7	3.4				147.0
113	111.2			72.3					183.5
114	104.4			73.1					177.5
115	3.6			128.8	8.1				138.8
116	35.3	18.3	1.9	109.3	16.1				170.9
117		9.3		80.1	186.9	6.3			279.6
118		198.8	41.8	41.1	67.1				208.0

BASAL AREA PER ACRE FOR TREES WITH DBH >= 11"
(By Cluster and Species)

CLUSTER	PP	SP	IC	DF	WF	RF	MH	MC	TOTAL
1	46.6		10.0		152.9				168.4
2	30.9	7.7	23.3	32.5	38.0		28.7		158.5
3	36.9	20.7	13.9	24.3	69.5		42.3		166.3
4	88.7	20.0	26.2				10.5		139.9
21	1.1				43.2				43.2
22	13.0				83.7				96.7
23	13.1	69.6	26.6	10.8	58.2				119.7
24	17.8		3.4	38.1			20.0		50.4
25				167.9			17.3		185.1
28	196.5								196.5
29	17.0	9.1	46.1	76.1	8.2				136.1
41	196.6		11.5	20.3	6.7		7.9		249.6
42	54.0	38.7	2.9	26.8	86.1				208.4
43	19.3	56.2			54.4	73.2			190.2
44	222.8		6.3						227.0
51	41.7	37.8	3.3		145.2				198.9
52	11.2	61.4			127.9				189.2
71	115.4	20.0	26.5	61.7	24.8				176.2
72	56.4	85.3	16.0	37.6	8.1				201.9
73		6.7	22.4		159.0				185.8
81	175.4	24.1	44.9		26.3				258.2
82	24.5	67.8	15.0		57.9		33.9		151.7
84			2.3		233.2				233.2
85	148.7	17.1	32.9				62.5		250.6
91	42.2		56.1		51.8				136.0
92	170.6		23.2	14.4					196.2
93	145.7	11.4	53.6	48.6	10.1				205.3
101	11.3	9.3			149.3			17.5	167.3
102					6.9	221.9			226.5
103	7.9			83.6			3.2		91.7
104	3.8	11.3		46.8			13.1		61.4
111				78.9	31.3				110.3
112	36.9		13.2	69.1					112.7
113	89.5			38.9					128.4
114	95.7			67.7					163.5
115				104.9	7.0				111.9
116	31.9	13.8		85.8	9.5				134.1
117		8.2		79.2	123.7	6.3			214.3
118		196.7	41.8	33.5	55.6				191.6

AVERAGE NUMBER OF TREES (WITH DBH >= 6") PER ACRE
(By Cluster and Species)

CLUSTER	PP	SP	IC	DF	WF	RF	MH	MC	TOTAL
1	17		13		270		5		305
2	48	2	48	38	68		28		233
3	27	22	102	7	102		5		263
4	113	23	58	3	2		2		203
21	7		10		113				130
22	25		5		80				110
23	7	8	20	13	42				90
24	3		2	107			5		117
25				103			17		120
28	77								77
29	2	7	102	55	53				218
41	95		18	40	12		67		250
42	38	32	30	33	152		5		290
43	2	83	2		185	85			357
44	110		7						117
51	23	18	7		210				258
52	2	33			368				403
71	87	5	8	47	12				158
72	30	67	62	55	15				228
73		5	35		147				187
81	138	10	40		32				220
82	30	67	63		20		5		195
84			5		223		2		230
85	180	10	115	2	12		7		327
91	7		95		138				240
92	113		55	7	2				177
93	132	3	18	2	3				158
101	3	2			150		2	3	158
102					12	277			288
103	8		2	215			32		257
104	12	2		177			42		238
111				201	51				249
112	54		30	156	9				249
113	171			174					345
114	96			75					171
115	6			189	15				210
116	36	9	6	144	36				231
117		15		45	351	6			414
118		51	15	15	84				165

AVERAGE NUMBER OF TREES (WITH DBH >= 11") PER ACRE
(By Cluster and Species)

CLUSTER	PP	SP	IC	DF	WF	RF	MH	MC	TOTAL
1	13		3		152				168
2	18	2	27	18	23		15		103
3	15	12	25	5	60		5		122
4	43	15	8				2		70
21	2		3		38				43
22	12				53				65
23	2	8	13	5	18				47
24	2		2	40			3		47
25				77			15		92
28	70								70
29	2	3	47	38	15				105
41	93		12	25	2		23		155
42	32	23	7	23	78				163
43	2	50			58	62			172
44	98		3						102
51	13	15	2		93				123
52	2	25			137				163
71	58	3	8	22	10				102
72	30	57	17	35	8				147
73		5	22		100				127
81	115	3	22		23				163
82	15	42	22		17		5		107
84			2		155				157
85	95	7	40				7		150
91	5		43		53				102
92	55		22	5					82
93	83	2	8	2	3				98
101	3	2			83		2	3	92
102					3	198			202
103	8			83			2		93
104	3	2		45			18		72
111				99	30				129
112	39		9	90					141
113	96			51					144
114	69			54					126
115				105	9				114
116	24	6		69	9				111
117		9		39	141	6			195
118		45	15	6	51				114

Classification of Clusters
by Timber Type

Cluster #	Cluster class	Plot Classification 1	2	3	% Basal area by plot 1	2	3	avg % BA
1	3	3	4	3	98% TF	67% TF	100% TF	87% TF
2	4	4	4	4				
3	4	4	4	4				
4	4	4	4	4	47% PP	57% PP	80% PP	58% PP
21	3	3	3	3				
22	3	3	4	3	97% TF	62% TF	92% TF	84% TF
23	4	4	4	4				
24	2	4	2	4	75% DF	99% DF	62% DF	81% DF
25	2	2	4	2	86% DF	71% DF	96% DF	86% DF
28	1	1	1	1				
29	4	4	4	4				
41	4	4	4	4				
42	4	4	4	4				
43	3	4	4	3	35% SP 65% TF	33% SP 67% TF	91% TF	74% TF
44	1	1	1	1				
51	3	3	3	4	86% TF	90% TF	58% TF	77% TF
52	3	4	4	3	77% TF	73% TF	91% TF	81% TF
71	4	4	4	1	55% PP	0% PP	85% PP	
72	4	4	4	4				
73	3	4	3	3	75% TF	85% TF	85% TF	82% TF
81	4	4	1	4	56% PP	82% PP	54% PP	63% PP
82	4	4	4	4				
84	3	3	3	3				
85	4	4	4	4				
91	4	4	4	4				
92	4	4	4	4				
93	1	1	4	4	100% PP	62% PP	65% PP	78% PP
101	3	3	3	3				
102	3	3	3	3				
103	2	2	2	2				
104	4	4	4	4				

Classification of Clusters
by Timber Type

Cluster #	Cluster class	Plot Classification 1	Plot Classification 2	Plot Classification 3	Basal area by plot 1	Basal area by plot 2	Basal area by plot 3	avg % BA
111	4	4	2	-	37% WF 63% DF	15% WF 85% DF	- -	27% WF 72% DF
112	4	4	4	-				
113	4	1	4	-	11% DF 88% PP	65% DF 35% PP	- -	40% DF 60% PP
114	4	2	1	-	84% DF	99% PP	-	58% PP, 42% DF
115	2	2	2	-				
116	4	4	4	-				
117	4	3	4	-	16% DF 80% TF	38% DF 59% TF	- -	32% DF,69% TF
118	4	4	3	-	63% SP 15% IC	100% TF	-	50% SP,30% TF