

Est. of → Abundance of caches

Inside enclosure

1941 100% (base year)
 1942 10%
 1943 30%
 1944 0

Attorney

Pt Seedling Survival in Rodent caches
 Grass Valley Pt Enclosure Senead Oct 1933

First record (1941) strip No → ① ② ③ etc
 & 1942, 1943

System of belt transects in side enclosure

Direction of travel

All caches marked with number stakes
 Caches located 6" south of stakes
 1941 year of germination

Strip No	Stake No	June 19 1941	Remarks	No. Pt seedlings Nov 19 1941	Remarks	June 21 1942	Remarks	Aug 1 1942	Oct '42	ALH FDD May 11 1943
1N X	1	6	2-3 yrs old	6	—	6	—	6	6	6
	2	2	Edge of Pt '41	0	—	0	—	0	0	0
	3	15	" " " "	13	—	13	—	11	1	1
	4	4	" " " "	4	—	3	—	3	5	3
	5	2	open	2	—	1	—	1	1	1
	6	15	" " " "	12	—	10	—	10	10	8
25	7	4	Edge Pt " "	4	—	3	—	3	0	0
	8	4	Under sage " "	4	—	4	—	4	1	1
3N X	9	6	open 4 or 5 yrs old	6	—	6	—	6	6	6
45	10	8	" " " "	7	—	5	—	5	4	0
	11	2	" " 4 or 5 yrs old	2	—	2	—	2	2	2
	12	3	" " " "	3	—	3	—	3	3	3
5N	13	6	" " " "	5	—	5	—	3	2	2
65 X	14	2	" " " "	2	—	2	—	2	2	2
	15	11	" " " "	9	—	9	—	6	6	6
7N	16	7	" " " "	2	—	2	—	1	1	0
	17	15	" " " "	15	—	15	—	14	14	13
	18	13	" " " "	7	—	7	—	7	7	7
X	19	1	" " " "	1	—	1	—	1	1	1
X	20	1	" " " "	1	—	1	—	1	1	1
	21	3	" " " "	2	—	1	—	1	1	1
	22	2	Edge Pt " "	1	—	1	—	1	1	1
	23	3	Open " "	3	—	3	—	3	3	3
X	24	1	" " 3-4 yrs	1	—	1	—	1	1	1
8.5 X	25	1	Under Pt " "	1	—	1	—	1	1	1
	26	7	Under Pine 41 Pt	6	—	5	—	5	5	5
	27	9	" " " "	7	—	7	—	7	6	5
	28	24	Open " "	12	—	11	—	11	11	11

#2 Pt Seedling Survival - Grass Valley

Norman

Strip No	Stake No	June 1941	Remarks	Nov 1941	Remarks	June 1942	Remarks	Aug 1	Oct 1942	May 1943	
85	29	17	Open '41	17	---	16	---	16	15	15	16
Omit	30	4	Under Pine "	3	---	3	---	3	3	3	3
On strip No 7	31	10	Open "	4	---	4	---	1 ✓	1	0	0
	32	13	" "	5	---	5	---	5	5	4	4
9N X	33	7	" 4x5 yrs	7	---	7	---	7	7	7	7
Omit	34	1	Under Pt '41	0	---	0	---	0	0	0	0
	35	6	North of stk " (NO)	0	---	0	---	0	0	0	0
X	36	1	Edge Pt " 4x5 yrs	1	---	1	---	1	1	1	1
X	37	4	Under Pine 4x5 yrs	4	---	4	---	4	4	4	4
X	38	3	" Pt " "	2	---	2	---	2	2	2	2
	39	13	Open '41	7	---	7	---	7	5	4	4
X	40	2	" 4x5 yrs	2	---	2	---	2	2	2	2
X	41	3	" " "	3	---	3	---	3	3	3	3
	42	17	Under Pt '41	15	---	14	---	14	12	9	9
X	43	4	Open 4x5 yrs	3	---	3	---	3	3	3	3
	44	2	Edge Pt '41	0	---	0	---	0	0	0	0
X	45	5	Open 5x6 yrs	5	---	5	---	5	5	5	5
105 X	46	3	" base pine 5x6 yrs	3	---	3	---	3	3	3	3
	47	17	" " " '41	8	---	8	---	8	8	7	7
	48	20	" " " "	19	---	19	---	19	16	16	16
	49	28	" " " "	28	---	28	---	28	27	26	26
	50	15	" " " "	15	---	15	---	15	9	8	7
	51	20	" " " "	19	---	19	---	19	19	18	18
	52	5	" " " "	3	---	3	---	3	3	3	3
	53	6	" " " "	5	---	5	---	5	5	4	4
	54	14	Open " "	14	---	14	---	14	14	14	14
	55	8	Open '41	7	---	7	---	7	3	3	3
	56	9	" " " "	1	---	1	---	0 ✓	0	0	0
	57	13	" " " "	10	---	10	---	3 ✓	0	0	0
	58	5	" " " "	4	---	4	---	4	4	4	4
	59	1	" " 4x5 yrs	1	---	1	---	1	1	1	1
11N X	60	6	" " " "	5	---	2	---	2	0	0	0
	61	10	" " " "	7	---	7	---	3 ✓	2	2	2
	62	8	Base of Pine '41	4	---	3	---	3	2	1	1
X	63	11	" " 5x6 yrs	11	---	11	---	11	11	11	11

open inter space

#3

Strip No	Stake No	June 14 1941	Remarks	Nov 14 1941	Remarks	June 21 1942	Remarks	Aug 1	Oct 1942	May 11 1943
11N Cont	64	15	Base of Pine 41	14	—	14	—	13 ✓	10	9
	65	12	" " "	11	—	11	—	10 ✓	9	9
	66	20	" " "	11	—	11	—	11	7	6
	67	6	" " "	0	—	0	—	0	0	0
	68	8	" " "	2	—	2	—	2	1	1
	69	8	" " "	1	—	0	—	0	0	0
	70	20	" " "	0	—	0	—	0	0	0
	71	15	" " "	1	—	2	—	1	0	0
	72	13	" " "	7	—	7	—	7	6	6
	17S	73	11	Open 41	8	—	8	—	8	8
Omit (75)	74	6	Base of Pine 41	1	—	1	—	1	0	0
	75	1	Under Pt "	1	—	1	—	1	1	1
	76	5	open "	0	—	0	—	0	0	0
	77	5	" " "	5	—	3	—	3	3	2
	78	13	Edge Pt "	12	—	12	—	11 ✓	5	5
	79	14	open "	11	—	11	—	10 ✓	6	6
	80	18	" " "	14	—	14	—	14	13	13
	81	12	" " "	10	—	9	—	9	7	7
	82	14	" " "	10	—	10	—	10	7	7
	83	5	Edge Sage 41	1	—	0	—	0	0	0
13N	84	5	open "	4	—	3	—	3	0	0
	85	3	" " "	3	—	3	—	1 ✓	0	0
	86	10	" " "	7	—	7	—	3 ✓	2	2
	87	9	" " "	0	—	0	—	0	0	0
	88	8	" " "	0	—	0	—	0	0	0
	89	21	Under Pine "	18	—	13	—	13	4	1
	90	6	Under Pt "	5	—	4	—	4	4	0
	91	6	open "	2	—	2	—	2	2	2
	92	14	" " "	13	—	12	—	11 ✓	10	10
	93	6	" " "	5	—	5	—	1 ✓	1	0
94	8	" " "	7	—	7	—	7	6	6	

June 21 1942 Pt at height of flowering fruit formation more advanced on grazed plants.

94
20 yr old or older
76 1941 seedlings

3 1/2%

SURVIVAL OF BITTERBRUSH SEEDLINGS FOLLOWING GERMINATION

