

1978 seedlings (check plot)

All data transferred to field sheets
to be used for 1981 data (Harvey from June 5/81)

First records on cache

	1978 data	Dates records obtained	strips
① A, B	Caches 1-270	Oct 31 1978	0-13
② A	" 272-382	Oct 31 "	13A-17A

1979 data

1978 seedlings missed in 1973

③ A	Caches 383-412	June 29 1979	0-7
④ A	" 413-586	July 13 "	2A-5
		Aug 10 "	5A-12
		" 9 "	12A-17A

Repeat measurements

1979

⑤ AB	{ Caches 1-270	Sept 19 1979	0-1
⑥ AB		Oct	1

② A Continuation of records

Oct 11/78
Hormay
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② B 2yr old +

~~Black~~ Bitterbrush Reproduction
Black Mt Enclosure Site Cache plot (outside enclosure)

Eagle Lake District Date Nov. 1978 Oct 31/79
Lassen N.F. Examiners H.H. Gilman

Cache No	Distance		Number of plants		Ground Site			Mortality %
	North Ft	Right Ins.	Total	in cache	Pine	Shrub	Grass (open)	

Local Competition & influence

Strip 13
535 61.3 11 3 to 4 yrs old ← This record is a duplicate and appears on page 14 of 1978 seedling record. Further data on unstaked 2yr old plus seedlings should be entered on this sheet, starting with cache No 536

Strip 14
536 18.3 60 2-3 yrs old Pn
537 97.4 58 " " Soil, Gr

Strip 15
538 18.3 55 3± Pn
539 32.9 10 3± Pn
540 39.7 65 " ART Gr
541 92.7 21 " Soil
542 96.9 18 " "
543 100.0 67 " "

Strip 15A
544 61.1 14 3± Grass, ART
545 76.3 68 " "
546 96.4 47 " ART, soil

Strip 16
547 47.9 71 " ART Pn
548 48.4 6 " " Gr
549 58.3 60 " ART, Gr
550 62.2 59 " CHR/Gr
551 81.2 48 " ART, Gr
552 99.8 26 " " "

✓ P = pine Pn = pine needles Gr = grass Pt = bitterbrush, ART = Big sagebrush
✓ CHR = Rabbitbrush R = rock
✓ CW = Competition, weather T = trampling C = cattle D = deer M = man
Redout = R

② A Continuation of records

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② B 2yr old +

Black Mt Enclosure Site Bitterbrush Reproduction (check plot (outside enclosure))

Eagle Lake District Date Nov 1978 Oct 31/78
Lassen N.F. Examiners ALH G/ln

Cache No	Distance		Number of plants			Ground Site			Marked-ity 2
	North Ft	Right Ins.	Total	in cache Live	Dead	Pine	Shrub	Grass (open)	
Strip 16A									
553	12.7	59		2-3+		Pn			
554	33.1	35		"				Pn Gr	
555	81.3	63		"				Gr ACT	
556	96.4	44		"				ACT rock	
557	98.1	32		"				Pt rock	
Strip 17									
558	35.5	5		2-3+		Pn			
559	51.7	36		"		"			
560	59.7	24		"				Gr soil	
561	63.5	54		"				" "	
562	77.6	31		"				Gr ACT dd	
563	78.8	36		"				" "	
564	81.1	25		"				" "	
565	81.8	66		"				" "	
Strip 17A									
566	71.2	43		"				ACT Pn, Gr	
567	76.6	17		"		Pn Gr	Gr		

✓ P = pine Pn = pine needles Gr = grass Pt = bitterbrush, ACT = Big sagebrush
 ✓ CW = Competition, weather T = trampling C = cattle D = deer M = man
 ✓ Root = R

② A

Continuation of records
started Oct 3 and suspended Oct 6 with plant No 270
1978 Bitterbrush Reproduction

Oct 11/78
Hormay

Blacks Mt Enclosure Site

(Trade plot) (outside enclosure)

Eagle Lake District		Date		Examiners		A.H., Collins	
Catch	Distance	Number of plants		Broad Site		Mortality	
No	North Ft	Right Ins.	Total	in cache Live	Dead	Pine : Shrub : Grass (open) Local competition & influence	ity 2 Cause
<u>Strip 13A</u> Oct 31 1978							
271	0.4	443	48	7	7	0 Pn	443 X
272	6.6	68	5	4	1	Pn	444 CW
273	8.3	15	5	5	0	Pn ART	445
274	11.1	35	8	8	0	Pn ART	446
275	11.1	40	3	3	0	Pn ART	447
276	17.8	35	11	10	1		448 Pn CW
277	18.5	68	11	11	0		449 Pn, Pt
278	23.0	17	12	12	0		550 ART
279	28.4	28	1	1	0		551 Pn Rock
280	37.0	72	3	2	1	Pn Pt	552 CW
281	38.3	15	13	12	1	Pn Gr	553 CW
282	49.5	20	5	5	0	Pn ART	554
283	69.7	42	9	8	1		558 Pt CW
284	90.7	33	6	5	1		559 ART CW
285	91.5	70	9	9	0		560 Soil
286	97.8	65	12	11	1		564 ✓ Soil, R CW
<u>Strip 14</u>							
287	2.1	11	6	3	3	Pn Gr Pt	565 X CW
288	3.7	18	6	5	1	Pn	566 CW
289	17.6	65	10	8	2		568 Pn CW
290	33.8	15	7	6	1		569 Pt Pn CW
291	35.7	55	6	6	0		570 Gr
292	35.9	40	3	3	0		571 Gr
293	39.3	66	2	2	0		572 Gr
294	39.6	72	4	3	1		573 Gr CW
295	66.2	34	1	1	0		576 Gr Rock
296	66.8	68	17	15	2		577 Gr Rock CW
297	71.6	72	2	2	0		578 Pn
298	74.0	9	6	1	5	Rock Pn	579 CW
299	91.2	26	8	6	2		581 Soil CW
300	97.8	42	4	4	0		582 ✓ Soil

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Hormay

②A

1978 Bitterbrush Reproduction
Blacks Mt Enclosure Site (Cache plot) (outside enclosure)

Cache		Distance	Number of plants			Brand Site		Mortality
No	North Ft	Right Ins.	Total	Live	Dead	Pine : Shrub Local competition & influence	Grass (open) ity 2 Cuse	
8+6=14			Strip 14A					
301	38.7	18	8	8	0	ART Pn	584	
302	57.9	16	1	1	0	Pn ART	585	
303	60.0	16	10	10	0		586	Pn
304	60.2	38	1	1	0		587	Pn
305	63.4	7	13	9	4		588	Rock Pn CW
306	67.6	43	9	2	7	PT	589	CW
307	69.1	44	16	14	2	PT	591	CW
308	72.9	8	5	1	4	R Gr	592	CW
309	95.2	36	9	6	3		595	ART Gr R CW
310	96.6	44	6	4	2		596 ✓	Soil Gr CW
10			Strip 15					
311	13.0	57	5	1	4	Pn Gr	599	GW
312	18.4	61	1	1	0	Pn Gr	600	
313	26.3	35	15	13	2	Pn Gr ART	601	GW
314	47.3	59	11	11	0		ART PT	Gr
315	48.0	53	1	1	0		603 PT	
316	51.9	23	10	9	1		604	Gr Pn CW
317	57.6	55	15	13	2		606	Gr CW
318	65.6	17	5	5	0		605	ART Rock CW
319	67.3	15	4	3	1			ART Rock CW
			Strip 15 Cont'd ✓					
320	71.8	19	18	12	6		607	Pn Rock CW

② A

11 Right Total Live Dd

9+1=10				Strip	15A					
321	18.3	.	31	12	1	Pn Gr	612			CW
322	18.3	.	76	19	18	"	613			CW
323	18.6	.	8	19	18	"	614			CW
324	73.6	.	57	20	20	0	615	Pn Gr		
325	75.2	.	16	10	9	1	616	Pn Gr		CW
326	30.3	.	25	10	9	1	Pn Gr 617			CW
327	35.1	.	13	1	1	0	618	Pn		
328	38.3	.	37	8	4	4	619	Gr ART		CW
329	39.8	.	55	1	1	0	620	Gr ART		
330	54.0	.	58	5	5	0	621	Pf		
331	62.6	.	17	5	4	1	623	Gr		CW
332	63.2	.	13	13	11	2	624	Gr		CW
333	68.0	.	40	3	3	0	625	Gr		
334	76.6	.	21	53	50	3	627	Gr ART		CW
335	83.1	.	20	10	6	4	628	ART soil		CW
336	83.9	.	55	13	13	0	629	" "		
337	85.5	.	65	16	13	3	630	Gr, rock		CW
338	87.1	.	36	8	7	1	631	Gr, rock		CW
339	90.2	.	11	16	11	5	632	ART Gr		CW
340	92.4	.	44	16	13	3	633	" "		CW
341	92.6	.	13	12	9	3	634	" "		CW
342	94.9	.	24	14	13	1	635	Soil ART		CW
343	95.2	.	47	2	2	0	636	ART, gr	✓	

(~~15A~~)

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②A

1978 Bitterbrush Reproduction
Blacks Mt Enclosure Site (check plot (outside enclosure))

Eagle Lake District
Lassen N.F.

Date Oct 31 1978
Examiners ALH Collin

Cache No	Distance		Number of plants in cache			Brand Site		Mortality
	North Ft	Right Ins.	Total	Live	Dead	Pine : Shrub	Grass (open) : Local competition & influence	
<u>Stamp 16</u>								
344	14.1	18	3	2	1	Pn Gr	637 X	CW
345	21.4	14	4	2	2		638	CW
346	25.8	13	15	15	0	Pn Gr	639	
347	27.8	5	18	16	2	Pn Gr	640	CW
348	35.1	24	12	10	2		642 Pn Gr	
349	58.2 OK	6	5	4	1		646 ART Rock	CW
350	56.2	15	11	10	1		645 ART Gr	CW
351	63.2	70	11	11	0		648 " "	
352	99.6	34	8	6	2		650 ART Gr	CW
<u>Stamp 16 A</u>								
353	15.4	10	12	7	5	Pn	651 X	GW
354	22.7	24	21	21	0	Pn	652	
355	23.2	23	1	1	0		653	
356	32.7	34	7	7	0		655 Pn Gr	
357	62.7	47	8	7	1		657 ART Gr	CW
358	64.9	0	5	4	1		658 ART	GW
359	75.9	54	6	6	0		659 ART old	
360	76.4	54	7	5	2		661 ART old	GW
361	78.1	37	7	7	0		662 Gr soil	
362	87.1	56	9	8	1		663 Gr soil	

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Blacks Mt Exclosure 2116

Eagle Lake District
Jassen N.F.

②A

Date Oct 31, 1978
Examiners ALH Collin

Cache No	Distance		Number of plants			Broad Site		Mark-ity
	North Ft	Right Ins.	Total	Live	Dead	Pine	Shrub	
	10			Strip 17				
363	13.5	55	32	29	3	Pn	Gr 665 X	CW
364	21.8	5	13	11	2	"	" 667	CW
365	23.7	31	7	0	7	"	" 668	CW
366	59.2	45	2	2	0		670 AET Soil	
367	62.1	36	5	4	1		671 " "	CW
368	74.8	13	10	2	8		674	
369	86.7	10	6	6	0		675 Gr Rock	CW
370	92.7	32	10	10	0		676 AET Shrub	
371	95.1	70	6	5	1		677 " " "	CW
5+4=9								
				Strip 17A ← Last strip				
372	9.4	3	12	9	3	Pn	679 X	CW
373	19.7	7	19	16	3	"	680	CW
374	19.8	27	16	14	2	"	681	CW
375	24.9	20	16	12	4	"	682	CW
376	66.6	40	10	5	5		683 AET Gr	CW
377	67.1	14	11	10	1		685 " "	CW
378	73.8	58	7	0	7	Pn	Gr 686	CW
379	74.8	3	13	3	10	"	Gr 687	CW
380	76.8	61	8	6	2	"	Gr 688	CW
381	79.4	67	20	19	1	"	Gr 689	CW
382	83.2	38	13	11	2	"	" 690 Last plants	CW
	11							

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