

Hornaday
Sept 1, 1979

Bitterbrush (Pt) Studies

A Exam 1

Blacks Mt. Pt. Enclosure Site Area, Lassen N.F.

Nov 10 1978

Study Name Reproduction Date Started 1978 Date 1st treatment Nov. 10/78
Plot Location: Inside enclosure or on check, (A), B, C, D, ___ areas (Circle)

Plant series No. ___ Germination year 1978 Stake color ___ Species Bitterbrush
Exam. No. 1 Date Nov 10/78 B or A treat. (Circle) Examiners ALM

Plant or Cache No.	Location on strip		Whole Crown			Live Crown			Perc't dead area	Plants in cache		Cause of mortality	Twig Growth		Seed prod.	Site
	N	E	Dia	Ht	Perc't	Dia	Ht	Area		Total	Live		Length	Use		
	Ft	Ins	Ins	Ins	Dead	Ins	Ins	Sq "	S	W	No.	No.	Ins	Perc't		
Strip 0																
1	29.6	34									11	4				
25	!	?														
Strip 0A (none)																
Strip 1																
21	9.0	36				1.6	2.6	2.0			12	9	1.0	0		B
2	40.0	1									16	12				
Strip 1A																
22	49.0	30				1.0	2.6	1.0			6	6	0.6	0		NB
Strip 2																
23	4.0	16				2.0	2.2	3.0			16	12	0.5	0		NB
3	42.0	45									14	0				
Strip 2A																
24	42.0	72				1.2	4.0	0.7			12	3	2.0	0		B
Strip 3 (None)																
Strip 3A																
4	17.3	50									7	6				
Strip 4																
5	48.4	70									16	2				
Strip 4A																
6	12.3	47									11	10				
7	16.1	68									9	4				

Hornáy
Sept 7, 1979

Bitterbrush (Pt) Studies

Cont'd

Blacks Mt. Pt. Enclosure Site Area, Lassen N.F.

Study Name _____ Date Started 1978 Date 1st treatment Nov 10/78
 Plot Location: Inside enclosure or on check, (A) B, C, D, _____ areas (Circle)

Plant series No. _____ Germination year _____ Stake color _____ Species _____

Exam. No. 1 Date 11/10/78 B or A treat. (Circle) Examiners ALH.

Plant or Cache	Location on strip		Whole Crown			Live Crown			Perc't dead area	Plants in cache		Cause of mortality	Twig Growth		Seed prod.	Site	
	N	E	Dia	Ht	Perc't	Dia	Ht	Area		Total	Live		Length	Use			
No.	Ft	Ins	Ins	Ins	Dead	Ins	Ins	Sq "	S	W	No.	No.	Ins	Perc't			
1	2	3	4	5	6	7	8	9	10		11	12	13	14	15	16	17
Strip <u>5 (None)</u>																	
Strip <u>5A</u>																	
8	32.0	42									6	3					
Strip <u>6</u>																	
9	14.6	40									16	11					
10	19.7	65									73	6					
11	27.3	34									11	6					
Strip <u>6A</u>																	
12	22.2	45									6	5					
13	30.9	15									24	4					
14	31.2	37									73	20					
Strip <u>7</u>																	
15	25.7	9									8	8					
16	25.9	33									4	0					
17	49.1	58	Not a cache (out)								1	1					
Strip <u>7A</u>																	
18	47.6	72									10	4					
Strip <u>8</u>																	
19	1.7	43									15	13					
20	73.7	3									26	23					
Strip <u>8A (None) Last strip</u>																	

Exam No 2 attached

First record

Oct 11/78
Hormay

Plot size _____

1978 Bitterbrush/Reproduction
Blacks Mt Enclosure Site

Supplemental plot A, B, C, D
(circle one)

Edge Lake District Lassen N.F.		Date	Examiners		Grand Site			Markal-
Exam No 1		Nov 10 1978	ALH		Pine	Shrub	Grass (open)	ity
Cache No	Distance	Number of plants in cache	Live	Dead	Local competition & influence	HT	Dia	Cause mortality
North	Right	Total			Total			
Ft	Inch				Live	"	"	
1	29.6	34	4	7				CW
			Strip 0					
			Strip 0A					
		No plants						
2	40.0	1	16	4				CW
			Strip 1A					
		No plants						
3	42.0	45	14	14				CW
			Strip 2					
			Strip 2A					
		No plants						
			Strip 3					
		No plants						
4	17.3	50	7	1				CW
			Strip 3A					
5	48.4	70	16	14				Gr ⁶ ₁₂
			Strip 4					
			Strip 4A					
6	12.3	47	11	1				CW
7	16.1	68	9	5				CW
			Strip 5					
		No plants						
			Strip 5A					
B	32.0	42	6	3				CW

1 P = pine Pn = pine needles Gr = grass Pt = bitterbrush, ACT = Big sagebrush
 2 CHRY = Rabbitbrush R = rock { Gr = grazing }
 CW = Competition, weather T = trampling { C = cattle D = deer } M = man
 Raboot = R

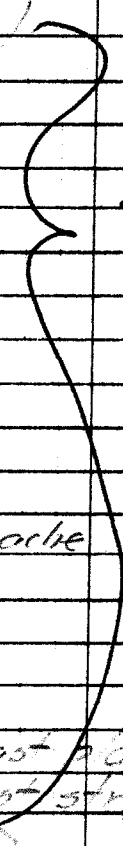
OCT 11/18
Hormay

1978 Bitterbrush Reproduction
Black Mt Enclosure Site Supplemental plot (A), B, C, D
(circle one)

Eagle Lake District
Lassen N.F.

Date Nov 10 1978
Examiners ALH

Cache No	Distance		Number of plants in cache			Broad Site			Mortality
	North Ft	Right Ins.	Total	Live	Dead	Pine	Shrub	Grass (open)	
						local competition & influence			
						Strip 6			
9	14.6	40	16	11	5				CW
10	19.7	65	23	6	17				CW
11	27.3	34	11	6	5				CW
						Strip 6A			
12	22.2	45	6	5	1				CW
13	30.9	15	24	4	20				CW
14	31.2	37	23	20	3				CW
						Strip 7			
15	25.7	9	8	8	0				
16	25.9	33	4	0	4				CW
17	49.1	58	1	1	0	Not a cache			
						Strip 7A			
18	47.6	22	10	4	6				CW
						Strip 8			
19	1.7	43	15	13	2				CW
20	23.7	3	26	7	3				CW
						Strip 8A			
						No plants			



↓ P = pine Pn = pine needles Gr = grass Pt = bitterbrush, A.C.T. = Big sagebrush
 2 C.A.B. = Rabbitbrush R = rock
 ✓ CW = competition, weather T = trampling C = cattle D = deer M = man
 Redout = R

Oct 11/78
Hormay

1978 Bitterbrush Reproduction
Black Mt Enclosure Site Supplemental plot A, B, C, D
(circle one)

Eagle Lake District
Lassen N.F.

Date 4/13/79
Examiners

Cocha No	Distance		Number of plants			Brand Site		Mortality Cause
	North Ft	Right Ins.	Total	Live	Dead	Pine	Shrub	
21	8	1	45	10	16	⊖	—	
22	48	4	19	7	7	⊖	—	
23	3	⊖	21	16	16	⊖	—	
24	52	10	2	11	10	1	—	

Strip 1

Strip 1A - No new plants

Strip 2

Strip 2A - No new plants

Strip 3

These seedlings were missed in 1978
So measured in 1979

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

OCT 11/10
Hormay

Plot size

1978 Bitterbrush Reproduction
Blacks Mt Exclosure Site Supplemental plot A (B) C, D

Edge Lake District → Date Nov 10 1978 (circle one)
Lassen N.F. Exam. No 1 Examiners ALH C Alkan

Cache No	Distance		Number of plants		Brand Site			Metal- ity 2 Cause
	North Ft	Right Fms.	Total	Live	Dead	Pine local competition & influence	Shrub	
201	31.4	47	10	8	2			CW
202	50.0	3	16	3	13			CW
203	4.0	64	29	22	7			CW
204	13.3	27	8	3	5			CW

1 P = pine Pn = pine needles Gr = grass Pt = bitterbrush, ACT = Big sagebrush
 2 CHRY = Rabbitbrush R = rock
 ✓ CW = Competition, weather T = trampling C = cattle D = deer M = man
 Rabbit = R

OCT 11/78
Hormay

1978 Bitterbrush Reproduction
Blacks Mt Exclosure Site Supplemental plot A, B, C, D

Eagle Lake District
Lassen N.F.

Date NOV 10 1978
Examiners ALH Aiken

(circle one)

Cacha No	Distance		Number of plants			Brand Site			Mark-ity Cause
	North Ft	Right Ins.	Total	Live	Dead	Pine local	Shrub	Grass (open)	
						Strip 6			
205	1.3	20	6	5	1				CW
206	14.0	27	32	29	3				CW
207	27.4	11	23	21	2				CW
208	30.7	17	17	6	6				CW
						Strip 6A			
209	15.5	44	5	2	3				CW
210	15.8	50	5	2	3				CW
						Strip 7			
211	27.4	10	22	18	4				CW
						Strip 7A			
			No plants						
						Strip 8			
212	23.7	1	13	2	11				CW
						Strip 8A			
			No plants						
						Last strip			
						Last record			

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

OCT 11/78
Hormay

1978 Bitterbrush Reproduction
Blacks Mt Exclosure Site Supplemental plot A, B, C, D
(circle one)

Eagle Lake District } Date 12/1/78
Lassen N.F. Exam No 1 } Examiners COLIN A KEN

Partial on this page, Note!

Cache No	Distance		Number of plants			Brand Site			Marked-ity 2
	North Ft	Right Ins.	Total	Live	Dead	Pine	Shrub	Gross (open)	
301	24.8	18	7	5	2				
302	26.4	16	12	8	4				
303	29.3	24	20	14	6				
304	36.1	30	10	6	4				

Strip 0
Strip 0A
NO PLANTS
Strip 1

(July 13)
This plot finished in 1979, by Colin, Garry Lavar and Shumway. See attached

12/1/78
Dorsey I
COULDN'T FINISH
THE TWO PLOTS.
THE DAY I WAS
ABLE TO GO OUT
IT SNOWED AND
COVERED ALL THE
PLANTS.

COLIN

1 P = pine
2 CABY = Cab
3 CW = Cow
Redout = R

other brush, ACT = Big sagebrush
spkng C = cattle D = deer M = man