

RR 301
Badger Well

RWS
10/14/38

Percent Utiliz. in Vicinity of Seedling Plots

Unprotected		Intensity of grazing	PS	SIh	C	B+	BA _s	P+	Wm	Apt	S	CR
1/4 mi. plots	Outside ^{Pr.} deers	L	35	10	15	5	15	65				
	On G. plot	L	30	15	0			65				
No evidences of pine seedling grazing this year. Many dead tops in reprod.												
1/2 mi. plots	Outside ^{Pr.} deers	L	15	15	5			40	0			
	On G. plot	M	50	25	0			50				
No pine seedlings grazed this year												
1 mi. plot	Outside	L	10	15	10			65				
	On plot	H		85	15			80			85	
No pine seedlings grazed												
2 mi. plot	Outside Prct.	L	5	5	0			20	0		5	0
	On grazed plot	L	5	5	0			5				
	Outside plot	L	0	0	0			0			0	0
No pine seedlings grazed												

R.R.
Pine Ranges
Modoc

RWG, JRB
12/21/38

Effect of sheep grazing on pine reproduction.

Badger Well Plots
Modoc National Forest
1939-38

Plots	1/4 mile		1/2 mile		1 mile		2 miles	
	Grazed	Ungrazed	Grazed	Ungrazed	Grazed	Ungrazed	Grazed	Ungrazed
Record of established reproduction	No	%	No	%	No	%	No	%
Reproduction alive 1939	1	3	21	8	8	7	4	7
Reproduction alive 1938	0	2	10	8	6	3	4	6
Reproduction dead 1938	1	1	11	0	2	4	0	1
Causes of death								
Porcupine		1						
Insects?			11		2	4		1
Dead	1							
Av ht. of reproduction	Inches							
1939	10	47.7	19.2	16.8	29.0	19.1	66.8	41.4
1938	0	82.0	13.9	22.5	29.7	13.3	76.0	42.3

Natural Seedling Germination

Badger Well

Potter Pasture

Badger Well

Year of Germination	1/4 mi plots		1/2 mi plots		1 mi plots		2 mi plots		Total
	Grazed	Protected	Grazed	Protected	Grazed	Protected	Grazed	Protected	
1934	0	0	0	0	0	0	0	0	0
1938	0	0	0	0	1	0	0	0	1
Potter Pasture									
1934	No seedlings found								
1938									

Effect of Sheep Grazing on Pine Reproduction

Badger Well Plots

		1934	1938
No. trees	alive	34	20
No. trees	grazed	0	4
Percent of foliage taken	of trees grazed	0	6.4

Pts +	Tree No.	Parts on tree	Parts grazed	% utility of parts grazed	Total parts grazed	% utility of entire tree
Ungrazed	2	6	2	60	1.2	20
	3	4	3	50	1.5	37.5
	5	10	2	5	.1	1
	7	25	1	5	.05	.2
	45				2.85	