

RR
Pine Range
Plumas,

206, 928
12/20/38

Effect of sheep grazing on pine reproduction.
Long Canyon Plots
Plumas National Forest
1932-38

Mortality of established reproduction by years	Plot 1		Plot 2	
	(Ungrazed)		(Grazed)	
	No	%	No	%
Total number of reproduction	18	100	31	100
Reproduction death by years				
1932 } 1933 }	3		7	
1934	1		13	
1935	3		0	
1936 } 1937 } 1938 }	3		1	
Total reproduction dead by 1938	10		21	
Total reproduction surviving by 1938	8		10	

↓ 1931 seedling alive 6/9/32

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RWG, JRB
12/20/38

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pine reproduction
Long Canyon Plate
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Mortality of established reproduction [✓] by causes.	Plot 1 (Ungrazed)		Plot 2 (grazed)	
	No.	%	No.	%
	Total number of reproduction dead.	10	100	21
Reproduction death by causes.				
Natural (climate, etc)	7	10	13	
Rodents	1	10	1	
Sheep				
Unknown (reprod. gone)	2	20	7	

✓ 1931 seedlings alive 6/9/32

RR
Pine Ranges
Plumas

Effect of sheep grazing on pine
reproduction.

Long Canyon Plot
Plumas National Forest
1932-38

Average height of established reproduction. ↵

Year	Plot 1 (protected)		Plot 2 (grazed)	
	No. reprod.	Avg. ht. (inches)	No. reprod.	Avg. ht. (inches)
1932	18	2.8	31	1.7
1933	15	4.2	24	2.9
1934	14	5.3	11	3.4
1935	11	5.6	11	4.5
1938	8	10.3	10	9.6
↵ 1931	seedlings alive 6/9/32			

rows
12/22/38

Natural Seedling Germination by Years

Long Canyon Plots

Year of Germination	Plot 1	Plot 2	Plot 3	Plot 4	Total
1931	23	45	0	1	69
1932	1	0	0	0	1
1933	0	2	0	0	2
1934	3	3	0	3	9
1935	1	1	0	0	2
1936-38	0	0	0	0	
Total	28	51	0	4	83
	5	6		3	(14)