

## Appendix S1

**Table S1. Summary of results from experimental summer watering treatments.**

Results are the mean (standard error of the mean).

Response	Treatment					
	Control	1	2	3	4	5
<b>Response to Summer Watering</b> Seedling Count	0.17 (0.17)	5.50 (2.60)	0 (NA) <sup>†</sup>	1.33 (1.33)	218.40* (38.59)	71.00* (19.61)
<b>Response to Summer Watering</b> Perennial Cover (%)	2.50 (0.99)	17.36* (3.44)	16.27 (3.54)	9.95 (1.73)	13.72 (1.98)	22.43* (5.78)
<b>Natural Rainfall Response</b> Seedling Count	1193.33 (222.51)	743.33 (181.87)	1003.33 (353.63)	890 (245.70)	586.67 (166.51)	223.33* (61.84)
<b>Natural Rainfall Response</b> Perennial Cover (%)	2.27 (0.80)	9.58 (2.36)	10.20 (1.82)	11.71 (2.86)	14.53 (5.68)	23.00* (3.68)
<b>Spring Following Treatment</b> Annual Grass Cover (%)	44.17 (16.56)	39.33 (15.24)	48.83 (18.37)	27.83 (11.05)	39.17 (19.31)	34.5 (13.88)
<b>Summer Following Treatment</b> Perennial Cover (%)	0.61 (0.29)	0.15 (0.06)	0.25 (0.16)	0.69 (0.39)	1.12 (0.66)	0.56 (0.35)

Note: see Table 1 treatment codes for descriptions of treatments.

<sup>†</sup> A standard error of NA indicates no observable response to watering treatment.

\* Treatments significantly different from the Control at  $\alpha = 0.05$  based on highly conservative Friedman post-hoc analysis.