

Appendix S5. Relationship between heat, herbivory, water, and cumulative stress and NMS ordination

					Pearson correlations **		
Stress	Abbreviations		Units	Minimum	Maximum	Axis 1	Axis 2
Heat							
potential heat loads	heat	n/a		0.32	0.95	0.38	0.18
Herbivory							
Distance from nearest water source	distance	m		100	3560	-0.38	-0.41
Cow pie density	pie.den	cow pies/ha		0	3467	0.21	0.14
Cow pie frequency	pie.freq	% of belt transects		0	100	0.31	0.18
Deep-rooted bunchgrass basal area	bun.bas	cm2		6	331	-0.41	-0.47
Water							
Sand content 0-15cm soil depth	sand	%		33	80	0.19	0.37
Clay content 0-15cm soil depth	clay	%		14	53	-0.02	-0.53
Soil depth	depth	cm		23	120	-0.1	0.3
Fall precipitation (8/1-10/31)	f.prec	cm		2.2	5.8	-0.12	-0.49
Winter precipitation (11/1-3/31)	w.prec	cm		9	17	-0.11	-0.56
Spring-summer precipitation (4/1-7/3)	sp-su.prec	cm		6	12	0.13	0.55
Cumulative							
Herbaceous biomass	biomass	kg/ha		51	607	-0.43	-0.22

* Range of values across 75 study sites

** Variables with a significant correlation with the axis are highlighted in grey