

Table 3. Interclass correlations of repeated records for grazing distribution traits of cows at the Hartley and Todd Ranches. Interclass correlations were calculated using random components of variance of repeated records. In addition, the cow and residual components of variance were used to calculate an interclass correlation after modeling the covariance of repeated records with the autoregressive one method of modeling the covariance of repeated records with the autoregressive one method. The correlations of adjacent records were calculated from the autoregressive one method of modeling the covariance of repeated records. Repeated records were weekly averages of a cow's elevation and slope use and the distance cows were from water.

Ranch	Trait	Correlations		
		Interclass CS	Adjacent AR(1)	Interclass After fitting AR(1)
Todd	Elevation	0.71	0.60	0.60
	Slope	0.30	0.27	0.25
	Distance to Water	0.28	0.63	0.13
Hartley	Elevation	0.61	0.78	0.42
	Slope	0.29	0.59	0.15
	Distance to Water	0.18	0.82	0.00
	Distance Traveled	0.22	0.25	0.20

*CS = Compound Symmetry

*AR(1) = Autoregressive One