

Supplementary Table S3. ANCOVA after model simplification for testing the effect of soil factors on functional traits between dry and semidry grasslands. The CWMs of each functional trait (VPH, LDM, LA, SLA, LDMC, LNC, LCC, C/N; abbreviations cf. Table 1) represent the response variables, while the soil factors (SO, pH, CaCO₃, N, C, C/N; abbreviations cf. Fig. 3) and the grassland type (dry and semi-dry) were the fixed factors. Degrees of freedom (df) and error probabilities (* 0.01 ≤ p < 0.05, ** 0.001 ≤ p < 0.1, *** p < 0.001, ns = not significant).

5) Influence of soil C on CWM

Intercept	1	***	1	***	1	***	1	***	1	***	1	***	1	***	1	***
C	1	ns	1	**	1	**	1	ns	1	***	1	ns	1	*	1	ns
grassland	1	ns	1	***	1	***	1	ns	1	ns	1	*	1	**	1	ns
C x grassland																
Residuals	98		98		98		98		98		98		98		98	
6) Influence of soil C/N on CWM																
Intercept	1	***	1	***	1	***	1	***	1	***	1	ns	1	***	1	***
C/N	1	***	1	**	1	**	1	ns	1	***	1	ns	1	**	1	ns
grassland	1	ns	1	*	1	**	1	ns	1	*	1	ns	1	ns	1	ns
C/N x grassland								1	*							
Residuals	98		98		98		98		97		98		98		98	