

Table S12. Spearman's rank correlation of soil properties, climate conditions, and elemental accumulation in *S. krylovii*.

	Soil pH	LOI	Humus	Electrical Conductivity	Soil Moisture	Soil C	Soil N	Soil H	SK C	SK N	SK H	AccuSK Na	AccuSK Mg	AccuSK Al	AccuSK KP	AccuSK K	AccuSK Ca	AccuSK Mn	AccuSK Fe	Precipitation	Dung cover	Dried plant cover	New biomass	Old biomass	Temperature
Soil pH	1.000	.371	.163	.689**	-.059	.349	.084	-.101	.501	.235	.424	.473	-.691*	-.328	.557	.669*	-.781**	-.402	-.321	-.304	.083	-.321	.286	-.414	.304
LOI		1.000	-.128	.265	.620**	.895**	.779**	.574*	.301	-.014	-.259	.566	-.448	-.061	.336	.587*	-.776**	-.126	-.043	.077	-.164	.276	-.103	.300	-.077
Humus			1.000	.118	.112	-.153	-.168	-.263	.308	.196	.455	.315	.011	.299	.189	.133	-.175	-.126	.109	-.486*	.073	-.281	.501*	-.048	.486*
Electrical conductivity				1.000	-.177	.289	.135	-.099	.657*	-.014	.385	.077	-.403	-.573	.357	.364	-.538	-.568	-.536	-.069	.120	-.278	.084	-.399	.069
Soil Moisture					1.000	.512*	.694**	.745**	0.000	.102	-.056	.105	.137	.356	-.056	.007	.182	.295	.329	-.095	-.347	.611**	.024	.595**	.095
Soil C						1.000	.898**	.686**	-.063	.067	-.396	.357	-.374	.374	.063	.417	-.655*	.172	.395	.200	-.070	.323	-.184	.339	-.200
Soil N							1.000	.838**	-.238	.105	-.573	-.105	.154	.562	-.287	.021	0.000	.533	.669*	.243	-.223	.554*	-.272	.520*	-.243
Soil H								1.000	-.364	-.035	-.517	-.343	-.126	.520	-.469	-.322	.259	.242	.695*	.277	-.116	.598**	-.276	.518*	-.277
SK C									1.000	.406	.720**	.327	-.460	-.536	.336	.064	-.382	-.817**	-.459	-.661*	.300	-.592*	.655*	-.671*	.661*
SK N										1.000	.483	.336	.068	-.069	.645*	.373	.018	.242	.005	-.710**	-.035	.042	.686*	-.267	.710**
SK H											1.000	.191	-.269	-.273	.427	-.036	-.155	-.530	-.333	-.857**	.237	-.431	.850**	-.520	.857**
AccuSKNa												1.000	-.357	-.285	.657*	.734**	-.643*	-.109	-.438	-.269	.283	-.442	.273	-.256	.269
AccuSKMg													1.000	.070	-.133	-.196	.697*	.650*	.038	.270	-.469	.677*	-.320	.591*	-.270
AccuSKAl														1.000	-.466	-.306	.114	.400	.932**	-.075	-.173	.411	.028	.679*	.075
AccuSKP															1.000	.755**	-.483	.063	-.546	-.514	.046	-.098	.491	-.232	.514
AccuSKK																1.000	-.671*	.088	-.384	-.171	-.279	-.039	-.117	-.123	.171
AccuSKCa																	1.000	.340	.177	.318	-.194	.474	-.296	.270	-.318
AccuSKMn																		1.000	.374	.098	-.349	.780**	-.250	.685*	-.098
AccuSKFe																			1.000	-.051	-.152	.392	.020	.552	.051
Precipitation																				1.000	-.061	.139	-.928**	.105	-1.000**
Dung cover																					1.000	-.464*	.232	-.323	.061
Dried plant cover																						1.000	-.209	.850**	-.139
New biomass																							1.000	-.162	.928**
Old biomass																								1.000	-.105
Temperature																									1.000

** . Correlation is significant at the 0.01 level (2-tailed).

* . Correlation is significant at the 0.05 level (2-tailed).

Correlations significant at the 0.01 level (2-tailed) are indicated in black font, while correlations significant at the 0.05 level (2-tailed) are shown in blue font.