

Table.xxx BRMS model outputs: Leaf length of northern garden, northern source, southern garden, southern source willows. Model structure per species: leaf length ~ population + (1|year) + (1|sample\_id). Note S. arctica only comparing garden populations. Model output back-transformed in the table below.

	Estimate	Est. Error	Lower 95% CI	Upper 95% CI	Rhat	Bulk Effective Sample Size	Tail Effective Sample Size	Effect	Sample Size	Species
Intercept	38.67	3.35	31.91	45.28	1.00	1199.24	1869.67	fixed	505	Salix richardsonii
Northern Source	5.25	1.23	2.82	7.65	1.00	3209.05	3652.77	fixed	505	Salix richardsonii
SouthernSource	4.63	1.19	2.30	7.01	1.00	3306.94	3095.50	fixed	505	Salix richardsonii
Southern Garden	-19.67	1.39	-22.37	-16.94	1.00	4477.68	3835.21	fixed	505	Salix richardsonii
Year	9.19	2.92	5.20	16.46	1.00	1586.73	2356.93	random	505	Salix richardsonii
Sigma	9.20	0.29	8.65	9.79	1.00	4805.71	3875.32	residual	505	Salix richardsonii
Intercept	35.20	3.63	27.79	42.42	1.00	1318.12	1969.48	fixed	651	Salix pulchra
Northern Source	7.61	1.44	4.85	10.39	1.00	3324.04	3455.42	fixed	651	Salix pulchra
SouthernSource	0.44	1.36	-2.21	3.22	1.00	3121.24	3279.29	fixed	651	Salix pulchra
Southern Garden	-20.11	1.54	-23.04	-17.05	1.00	4614.53	3217.09	fixed	651	Salix pulchra
Year	10.33	3.19	6.01	18.05	1.00	1709.87	2619.73	random	651	Salix pulchra
Sigma	10.26	0.28	9.74	10.82	1.00	4571.36	3202.01	residual	651	Salix pulchra
Intercept	23.22	3.49	16.31	30.40	1.00	3557.04	5108.71	fixed	226	Salix arctica
Southern Garden	3.02	2.18	-1.27	7.28	1.00	2759.32	4238.61	fixed	226	Salix arctica
Year	7.18	3.08	3.43	15.15	1.00	3557.23	5733.16	random	226	Salix arctica
Sigma	6.08	0.35	5.44	6.81	1.00	10241.08	9586.98	residual	226	Salix arctica