

Table. Heights and cover over time of natural vs novel scenarios.

	Response variable	Scenario	Site	Estimate	Error	Lower 95% CI	Upper 95% CI	Rhat	Bulk effective sample size	Tail effective sample size	Effect	Sample size
Intercept	Cover	Novel	Common garden	-3.414	0.335	-4.083	-2.764	1.00	10952.601	8816.228	fixed	147
Sample age	Cover	Novel	Common garden	0.238	0.070	0.102	0.376	1.00	7650.304	8796.852	fixed	147
Random intercept	Cover	Novel	Common garden	0.424	0.339	0.017	1.269	1.00	3521.984	3663.056	random	147
sd(Sample age)	Cover	Novel	Common garden	0.211	0.053	0.121	0.335	1.00	440.541	1336.963	random	147
cor(Intercept, Sample age)	Cover	Novel	Common garden	-0.264	0.540	-0.958	0.890	1.01	226.732	897.209	random	147
phi	Cover	Novel	Common garden	14.494	2.435	10.219	19.781	1.00	3785.782	6064.805	residual	147
Intercept	Canopy height	Novel	Common garden	19.334	1.114	2.747	3.174	1.00	2028.701	3720.704	fixed	341
Sample age	Canopy height	Novel	Common garden	1.003	1.018	-0.032	0.038	1.00	2884.269	5691.364	fixed	341
Random intercept	Canopy height	Novel	Common garden	2.327	1.088	0.693	1.024	1.00	3428.448	5932.323	random	341
sd(Sample age)	Canopy height	Novel	Common garden	1.119	1.016	0.085	0.145	1.00	2688.911	4881.807	random	341
cor(Intercept, Sample age)	Canopy height	Novel	Common garden	0.548	1.106	-0.770	-0.383	1.00	3520.829	5441.912	random	341
phi	Canopy height	Novel	Common garden	1.318	1.014	0.250	0.304	1.00	6046.363	8718.439	residual	341
Intercept	Mean canopy height	Natural	QHI	4.530	1.147	2.233	6.809	1.00	5224.929	4473.883	fixed	57
Year (indexed)	Mean canopy height	Natural	QHI	0.341	0.070	0.200	0.480	1.00	5193.609	4699.970	fixed	57
Random intercept	Mean canopy height	Natural	QHI	1.023	0.543	0.109	2.254	1.00	2689.662	3301.077	random	57
sigma	Mean canopy height	Natural	QHI	2.086	0.225	1.699	2.577	1.00	7782.747	7377.293	residual	57
Intercept	Max canopy height	Natural	QHI	7.349	3.242	0.972	13.707	1.00	4113.863	4589.401	fixed	57
Year (indexed)	Max canopy height	Natural	QHI	0.721	0.201	0.331	1.125	1.00	3900.234	4413.753	fixed	57
Random intercept	Max canopy height	Natural	QHI	3.753	1.259	1.963	6.892	1.00	2555.323	3913.908	random	57
sigma	Max canopy height	Natural	QHI	3.216	0.353	2.628	3.999	1.00	6423.184	6273.885	residual	57
Intercept	Max cover	Natural	QHI	-1.148	0.401	-1.945	-0.373	1.00	6276.590	5546.913	fixed	11
Year (indexed)	Max cover	Natural	QHI	-0.001	0.015	-0.030	0.029	1.00	6330.084	5275.630	fixed	11
Random intercept	Max cover	Natural	QHI	0.140	0.105	0.007	0.391	1.00	3965.530	4738.712	random	11
phi	Max cover	Natural	QHI	109.279	69.749	26.679	287.622	1.00	4790.774	6235.197	residual	11
Intercept	Mean cover	Natural	QHI	-1.984	0.338	-2.683	-1.332	1.00	9455.085	6566.999	fixed	11
Year (indexed)	Mean cover	Natural	QHI	0.017	0.013	-0.008	0.043	1.00	9021.845	6912.002	fixed	11
Random intercept	Mean cover	Natural	QHI	0.100	0.081	0.003	0.301	1.00	5015.691	5161.782	random	11
phi	Mean cover	Natural	QHI	173.016	92.849	45.382	401.053	1.00	8305.650	7672.699	residual	11
Intercept	Max cover	Natural	Toolik	-0.671	0.754	-2.180	0.842	1.00	12008.358	8321.530	fixed	14
Year (indexed)	Max cover	Natural	Toolik	0.017	0.061	-0.105	0.138	1.00	11736.505	7869.940	fixed	14
Random intercept	Max cover	Natural	Toolik	0.452	0.376	0.015	1.404	1.00	4527.063	5516.570	random	14
phi	Max cover	Natural	Toolik	3.166	1.154	1.430	5.928	1.00	9925.342	7305.985	residual	14
Intercept	Mean cover	Natural	Toolik	-2.194	0.213	-2.624	-1.773	1.00	7343.365	5943.395	fixed	14
Year (indexed)	Mean cover	Natural	Toolik	-0.004	0.018	-0.038	0.031	1.00	6605.987	6512.544	fixed	14
Random intercept	Mean cover	Natural	Toolik	0.174	0.125	0.009	0.464	1.00	2751.746	4686.251	random	14
phi	Mean cover	Natural	Toolik	166.031	89.871	51.494	395.478	1.00	4018.697	5764.217	residual	14