

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	CG	-3.416	0.332	-4.080	-2.766	1.00	11300.853	8594.746	fixed	147
Age	Cover	Novel	CG	0.238	0.070	0.100	0.374	1.00	7852.945	8411.446	fixed	147
sigma	Cover	Novel	CG	14.411	2.398	10.156	19.569	1.00	3506.559	7114.154	residual	147
Intercept	Canopy height	Novel	CG	2.960	0.111	2.739	3.180	1.00	2717.197	4104.634	fixed	341
Age	Canopy height	Novel	CG	0.003	0.018	-0.032	0.039	1.00	4168.614	6754.490	fixed	341
sigma	Canopy height	Novel	CG	0.276	0.014	0.250	0.305	1.00	7087.243	8742.733	residual	341
Intercept	Mean height	Natural	QHI	4.516	1.155	2.160	6.746	1.00	5169.267	4668.917	fixed	57
Year	Mean height	Natural	QHI	0.343	0.071	0.205	0.486	1.00	4975.038	4691.150	fixed	57
sigma	Mean height	Natural	QHI	2.082	0.225	1.697	2.574	1.00	7090.291	7280.561	residual	57
Intercept	Max height	Natural	QHI	7.285	3.193	0.871	13.655	1.00	4291.157	5399.120	fixed	57
Year	Max height	Natural	QHI	0.727	0.198	0.333	1.120	1.00	4390.310	5490.285	fixed	57
sigma	Max height	Natural	QHI	3.212	0.343	2.627	3.975	1.00	6601.002	7586.747	residual	57
Intercept	Max cover	Natural	QHI	-1.161	0.398	-1.952	-0.395	1.00	8213.299	6540.109	fixed	11
Year	Max cover	Natural	QHI	0.000	0.015	-0.029	0.031	1.00	8306.764	6648.779	fixed	11
sigma	Max cover	Natural	QHI	110.903	70.137	28.422	296.194	1.00	5243.931	5617.114	residual	11
Intercept	Mean cover	Natural	QHI	-1.976	0.338	-2.683	-1.318	1.00	9042.143	6913.915	fixed	11
Year	Mean cover	Natural	QHI	0.017	0.013	-0.008	0.043	1.00	9151.728	6995.291	fixed	11
sigma	Mean cover	Natural	QHI	174.531	93.002	47.576	403.970	1.00	8410.500	7361.888	residual	11
Intercept	Max cover	Natural	Toolik	-0.662	0.722	-2.094	0.753	1.00	11105.731	8009.338	fixed	14
Year	Max cover	Natural	Toolik	0.016	0.059	-0.100	0.133	1.00	11045.519	7938.019	fixed	14
sigma	Max cover	Natural	Toolik	3.164	1.156	1.404	5.916	1.00	11868.506	9049.674	residual	14
Intercept	Mean cover	Natural	Toolik	-2.195	0.214	-2.622	-1.766	1.00	8918.067	7005.735	fixed	14
Year	Mean cover	Natural	Toolik	-0.004	0.018	-0.040	0.032	1.00	8277.070	6757.833	fixed	14
sigma	Mean cover	Natural	Toolik	165.615	89.989	50.190	402.229	1.00	4001.882	5848.806	residual	14