

Running Cat’s models

Specific leaf area

Table 1: Summary of the intercept only model for SLA in 2019 (n = 599) with species (n = 18) and population (n = 5).

	mean	25%	75%	n_eff	Rhat
alpha	22.83	0.50	44.81	2355.22	1.00
mu_a_sp	-0.13	-22.02	22.16	2384.01	1.00
sigma_a_sp	2.34	0.35	1.98	677.71	1.00
sigma_a_pop	2.61	0.35	1.91	737.45	1.00
sigma_y	9.03	8.85	9.20	5107.48	1.00

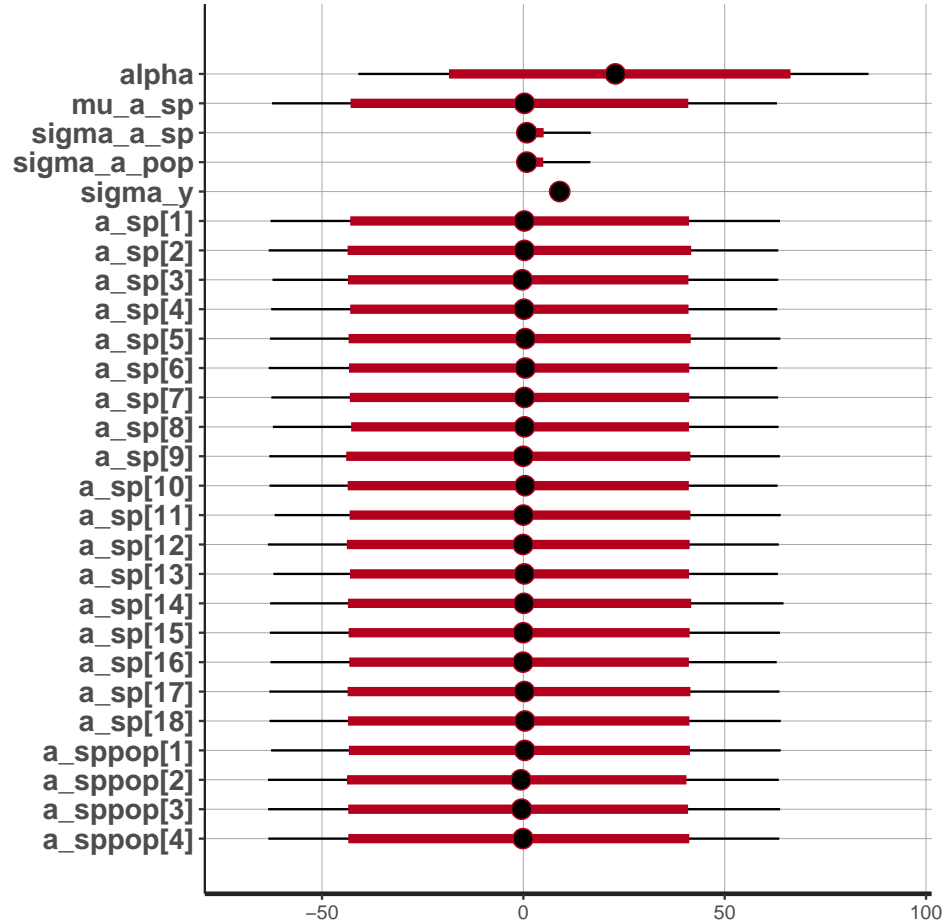
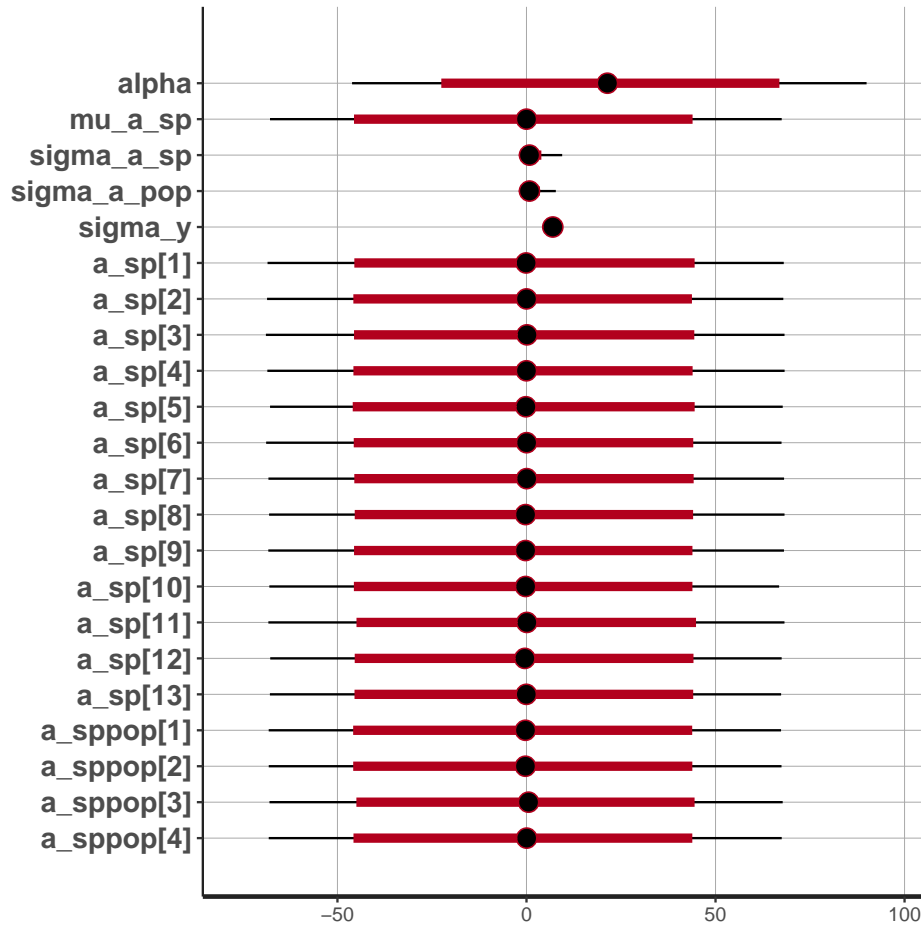


Table 2: Summary of the intercept only model for SLA in 2022 ($n = 446$) with species ($n = 13$) and population ($n = 5$).

	mean	25%	75%	n_eff	Rhat
alpha	21.47	-2.22	44.82	2443.48	1.00
mu_a_sp	-0.12	-23.89	23.51	2435.27	1.00
sigma_a_sp	1.76	0.32	1.74	1374.24	1.00
sigma_a_pop	1.55	0.36	1.73	1221.42	1.00
sigma_y	6.96	6.80	7.12	5195.34	1.00



5 Leaf dry matter content

Table 3: Summary of the intercept only model for LDMC in 2019 ($n = 599$) with species ($n = 18$) and population ($n = 5$).

	mean	25%	75%	n_eff	Rhat
alpha	316.79	294.95	338.62	7659.10	1.00
mu_a_sp	0.47	-21.34	21.63	7998.17	1.00
sigma_a_sp	7.81	2.05	9.64	3423.79	1.00
sigma_a_pop	9.28	2.09	10.00	2771.55	1.00
sigma_y	50.41	49.46	51.30	14596.00	1.00

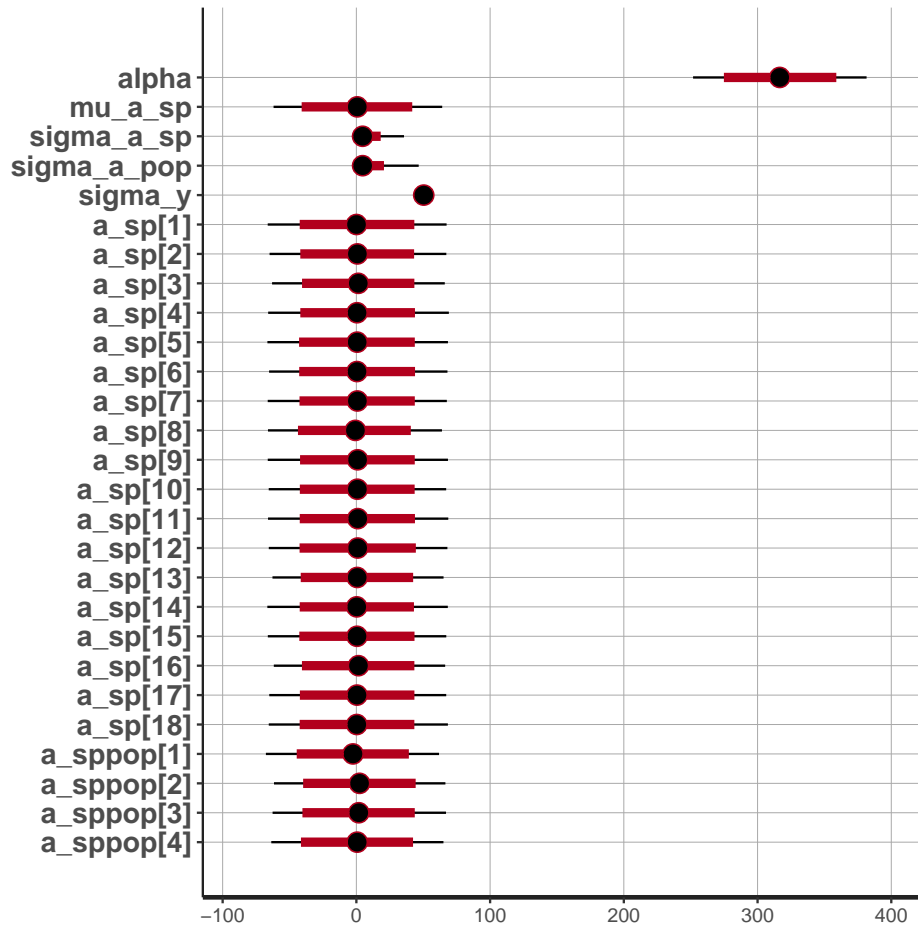
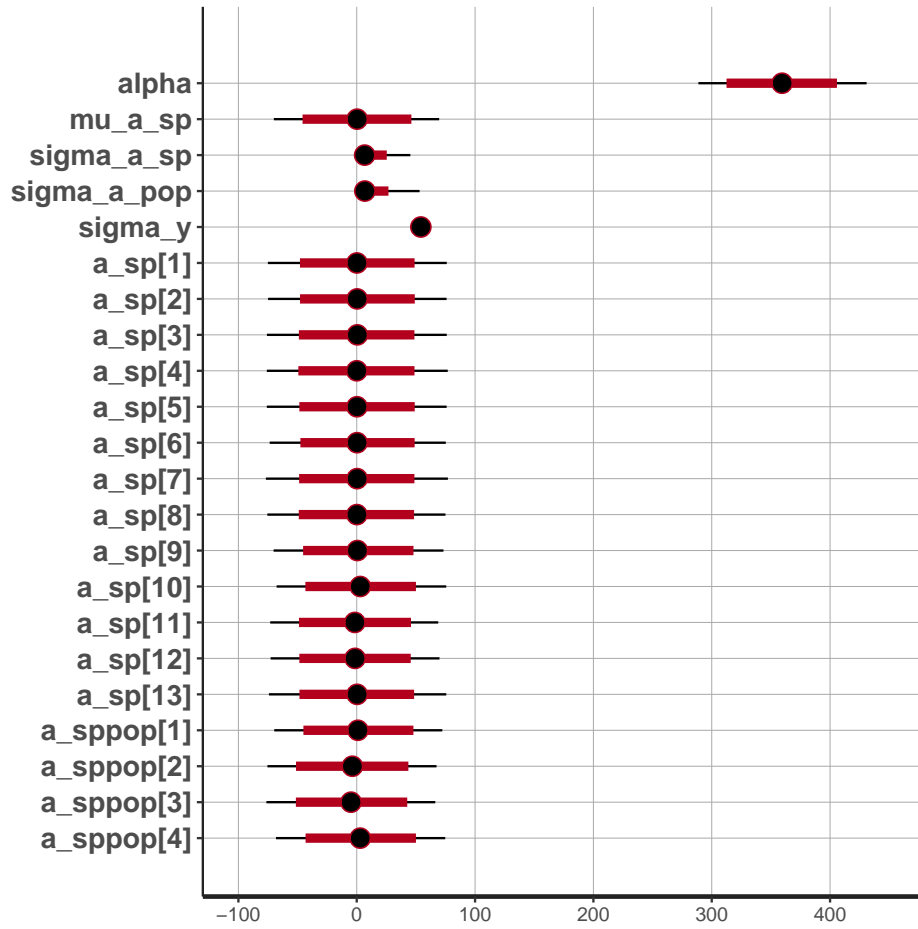


Table 4: Summary of the intercept only model for LDMC in 2022 ($n = 446$) with species ($n = 13$) and population ($n = 5$).

	mean	25%	75%	n_eff	Rhat
alpha	359.39	334.71	384.42	5841.73	1.00
mu_a_sp	0.18	-23.89	24.66	6492.35	1.00
sigma_a_sp	10.71	2.96	13.51	2739.33	1.00
sigma_a_pop	11.62	3.01	14.21	2800.51	1.00
sigma_y	54.22	53.08	55.33	11739.88	1.00



8 Height

Table 5: Summary of the intercept only model for plant height in 2019 ($n = 302$) with species ($n = 18$) and population ($n = 5$).

	mean	25%	75%	n_eff	Rhat
alpha	0.50	-21.64	21.86	3972.26	1.00
mu_a_sp	0.44	-20.93	22.68	3984.25	1.00
sigma_a_sp	0.87	0.12	0.56	454.88	1.02
sigma_a_pop	0.91	0.12	0.59	467.36	1.02
sigma_y	0.55	0.54	0.57	7818.03	1.00

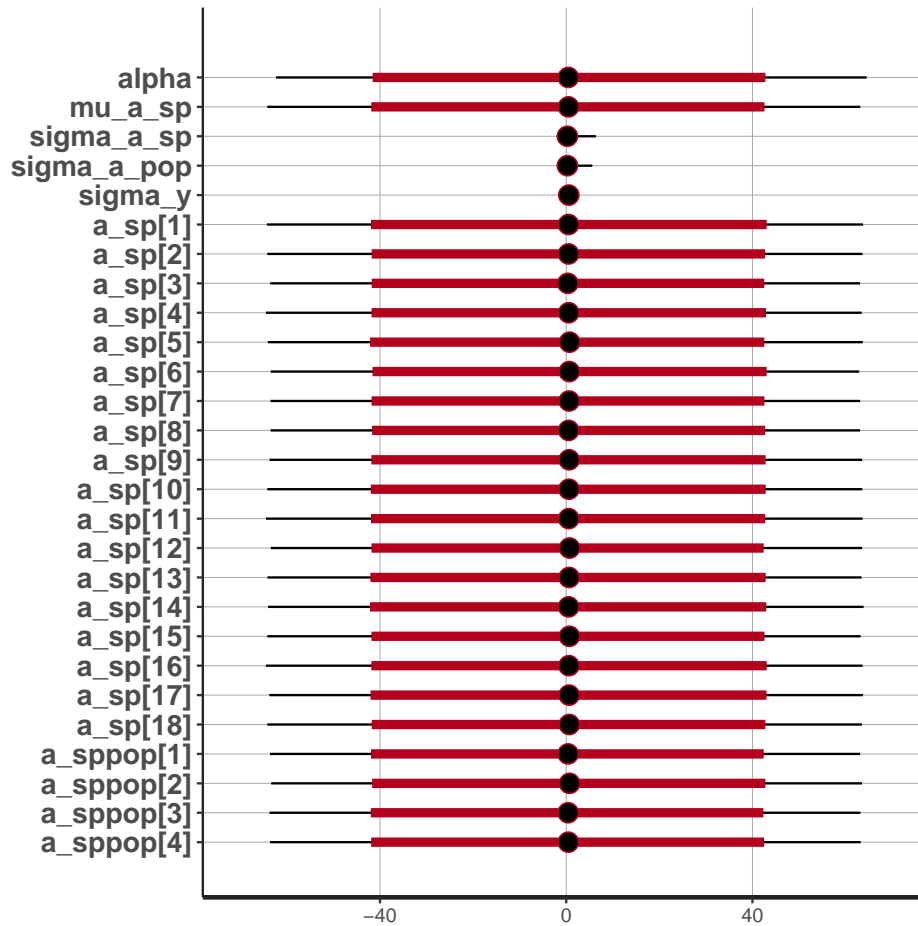


Table 6: Summary of the intercept only model for plant height in 2021 ($n = 257$) with species ($n = 16$) and population ($n = 5$).

	mean	25%	75%	n_eff	Rhat
alpha	1.72	-21.58	24.13	2548.62	1.00
mu_a_sp	1.20	-21.10	24.28	2576.36	1.00
sigma_a_sp	5.03	1.08	5.70	1143.48	1.00
sigma_a_pop	0.66	0.14	0.66	1039.49	1.00
sigma_y	1.41	1.37	1.45	4852.14	1.00

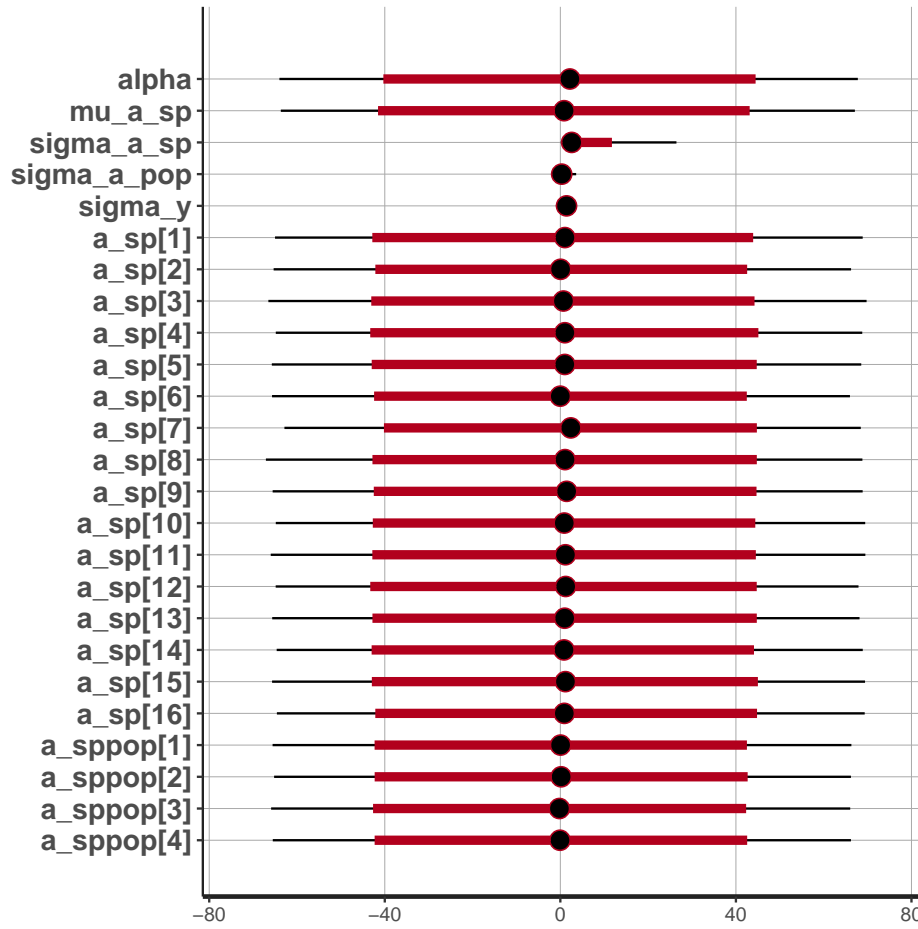
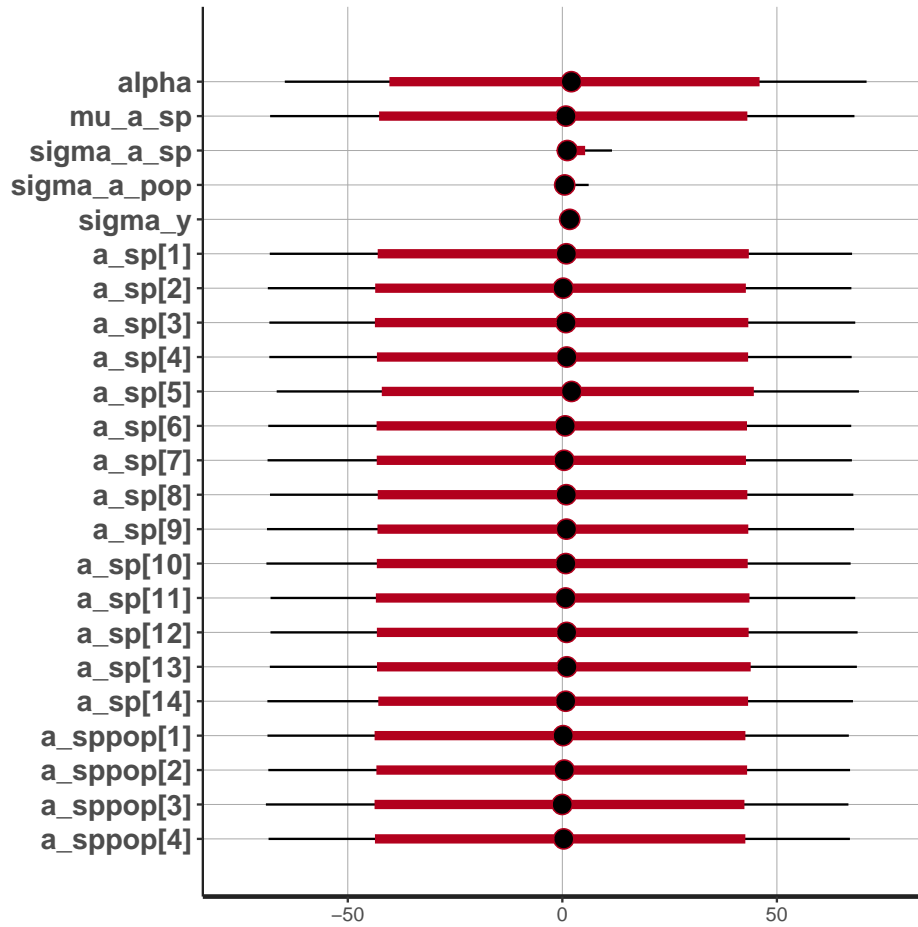


Table 7: Summary of the intercept only model for plant height in 2022 ($n = 240$) with species ($n = 14$) and population ($n = 5$).

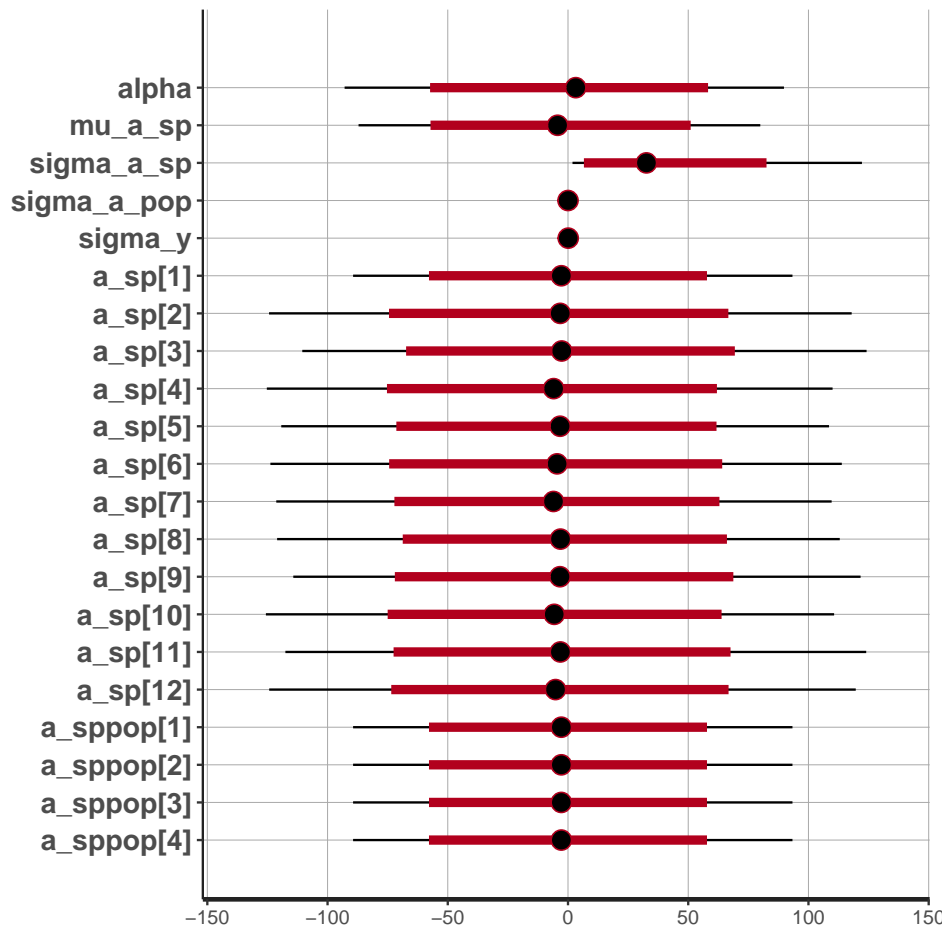
	mean	25%	75%	n_eff	Rhat
alpha	2.68	-19.91	26.04	2576.53	1.00
mu_a_sp	0.10	-23.40	22.60	2563.76	1.00
sigma_a_sp	2.29	0.39	2.69	760.28	1.00
sigma_a_pop	1.19	0.21	1.37	876.23	1.00
sigma_y	1.72	1.66	1.77	6406.37	1.00



12 Stem specific density

Table 8: Summary of the intercept only model for plant SSD in 2022 ($n = 240$) with species ($n = 14$) and population ($n = 5$).

	mean	25%	75%	n_eff	Rhat
alpha	2.06	-26.84	32.81	276.07	1.01
mu_a_sp	-3.51	-32.03	24.16	292.76	1.01
sigma_a_sp	40.00	15.98	56.32	609.38	1.01
sigma_a_pop	0.01	0.00	0.02	638.44	1.00
sigma_y	0.09	0.08	0.09	574.88	1.00



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