

Supporting Information: Competition between native Honewort (*Cryptotaenia canadensis*) and invasive Dame's Rocket (*Hesperis matronalis*) seedlings is mediated by relative germination timing

January 31, 2022

		Max germination (%)		Mean germination time (days)	
Stratification	Incubation	C. canadensis	H. matronalis	C. canadensis	H. matronalis
0.00	H	0.07 (0.1)	0.78 (0	15.25 (0	3.11 (0.6
0.00	L	0 (0)	0.75 (0.1	—	4.59 (0.7
2.00	H	0.03 (0)	1 (0	9 (1	2.3 (0.1
2.00	L	0.2 (0.2)	0.82 (0.1	10.25 (0.3	2.57 (0.5
4.00	H	0.18 (0.1)	0.97 (0	9.83 (3.6	2.49 (0.3
4.00	L	0.58 (0.3)	0.82 (0.1	11.06 (1.1	3.5 (0.6
5.00	H	0.08 (0.1)	1 (0	8.44 (4.7	2.33 (0.4
5.00	L	0.85 (0.1)	0.9 (0.1	7.67 (0.5	2.62 (0.6
6.00	H	0.25 (0.2)	0.98 (0	13.5 (6.9	1.91 (0.2
6.00	L	0.77 (0.1)	0.97 (0.1	8.11 (0.4	2.14 (0.2
7.00	H	0.6 (0)	0.87 (0	5.81 (0.2	2 (0
7.00	L	0.97 (0.1)	1 (0	6.29 (0.2	2.15 (0.2
8.00	H	0.5 (0.1)	1 (0	7.4 (0.3	2.06 (0.2
8.00	L	0.98 (0)	0.95 (0	6.09 (0.4	1.94 (0.1
9.00	H	0.6 (0.1)	0.98 (0	5.22 (0.7	1.74 (0.1
9.00	L	1 (0)	0.93 (0.1	6.04 (0.5	1.78 (0
11.00	H	0.73 (0.2)	0.98 (0	4.61 (0.2	1.86 (0.1
11.00	L	0.93 (0.1)	0.93 (0.1	5.04 (0.3	2.11 (0.5
13.00	H	0.77 (0.2)	0.88 (0	4.14 (0.3	1.89 (0.9
13.00	L	1 (0)	0.98 (0	4.16 (0.2	1.42 (0.3

Table 1: Max germination percentages and mean germination time for our species under all experimental treatment combination. H/L incubation (25 or 20C) and weeks of chilling

	Estimate	Est.Error	Q2.5	Q25	Q75	Q97.5
Intercept	547.96	45.02	456.60	519.05	577.71	633.92
n_Cc	-41.41	7.17	-55.76	-46.09	-36.65	-27.34
n_Hm	-30.37	6.94	-44.03	-34.96	-25.76	-16.75
priority	-46.07	8.76	-63.39	-51.95	-40.00	-29.41

Table 2: Impact of intra- and inter-specific seed density and priority effect on the per capita above ground biomass of *Cryptotaenia canadensis*

	Estimate	Est.Error	Q2.5	Q25	Q75	Q97.5
Intercept	530.87	34.78	463.76	508.07	553.50	599.14
n_Cc	-15.52	5.97	-27.27	-19.49	-11.51	-3.84
n_Hm	-33.70	3.60	-40.79	-36.03	-31.32	-26.57
priority	0.39	4.87	-8.94	-2.87	3.67	9.94

Table 3: Impact of intra- and inter-specific seed density and priority effect on the per capita above ground biomass of *Hesperis matronalis*

	species	beta	mean(Estimate)	sd(Estimate)
1	Effects on on Dames Rocket	beta	0.46	0.17
2	Effects on on Dames Rocket	beta.priority	0.44	0.18
3	Effects on on Honewort	beta	0.76	0.22
4	Effects on on Honewort	beta.priority	1.90	0.36

Table 4: Competition coefficients, with and without priority effects

	Estimate	Est.Error	Q2.5	Q25	Q75	Q97.5
Intercept	2.59	0.25	2.10	2.41	2.76	3.09
n_Cc	-0.41	0.03	-0.47	-0.43	-0.38	-0.34
n_Hm	0.12	0.03	0.07	0.11	0.14	0.17
priority	0.15	0.03	0.08	0.13	0.17	0.21

Table 5: Estimates from the RGRD models