Table S1: Intercept and regression coefficients from the probability of seed fill ~ environment models. Values in brackets are the 95% credible interval of the posterior distribution. Bolded text indicates that the parameter estimate was considered to be significant (i.e. the credible interval did not bound zero). Values are in logits and are in standardised units for sqrt(Canopy cover). Median proportion of filled seeds is also provided where the values in brackets are the lower and upper 95% quantiles.

Species	Intercept	sqrt(Canopy cover)	CWD	Median seed fill
Arctotheca calendula	**2.31 (1.99, 2.67)**	-0.04 (-0.31, 0.22)	0.02 (-0.48, 0.50)	0.91 (0.86, 0.96)
Daucus glochidiatus	**3.79 (3.23, 4.47)**	-0.10 (-0.53, 0.29)	-0.73 (-1.59, 0.06)	0.97 (0.94, 1)
Goodenia berardiana	**3.35 (2.76, 4.05)**	0.06 (-0.41, 0.55)	0.42 (-0.52, 1.45)	0.98 (0.91, 1)
Hyalosperma glutinosum	**3.51 (2.90, 4.19)**	0.06 (-0.41, 0.53)	-0.15 (-1.06, 0.81)	0.97 (0.91, 1)
Hypochaeris glabra	**2.69 (1.90, 3.59)**	0.13 (-0.47, 0.74)	0.31 (-0.97, 1.49)	0.94 (0.8, 1)
Lawrencella rosea	**2.85 (2.38, 3.35)**	-0.02 (-0.36, 0.33)	-0.08 (-0.74, 0.61)	0.94 (0.88, 0.98)
Plantago debilis	**3.92 (3.27, 4.70)**	-0.41 (-0.99, 0.11)	-0.05 (-1.04, 0.92)	0.98 (0.95, 1)
Podolepis aristata	**2.44 (1.92, 3.06)**	0.16 (-0.25, 0.57)	0.51 (-0.35, 1.32)	0.94 (0.79, 0.98)
Schoenia cassiniana	**3.91 (3.26, 4.67)**	0.02 (-0.48, 0.52)	-0.26 (-1.23, 0.67)	0.98 (0.96, 1)
Trachymene cyanopetala	**3.38 (2.74, 4.16)**	0.13 (-0.39, 0.65)	0.41 (-0.57, 1.48)	0.97 (0.92, 1)
Trachymene ornata	**3.88 (3.17, 4.70)**	-0.02 (-0.57, 0.52)	0.09 (-1.00, 1.19)	0.98 (0.95, 1)
Velleia rosea	**3.27 (2.62, 4.08)**	0.18 (-0.35, 0.59)	0.26 (-0.79, 1.32)	0.97 (0.88, 1)

Table S2: Intercept and regression coefficients from the linear Bayesian model of relative light germination (RLG) ~ species-level mean seed mass. Variance in RLG explained by species-level mean seed mass is also included. Values in brackets are the 95% credible interval of the posterior distribution.

Parameter	Estimate	R^2
Intercept	0.49 (0.31, 0.69)	0.26 (0.00, 0.54)
Mean seed mass	0.08 (-0.03, 0.17)	

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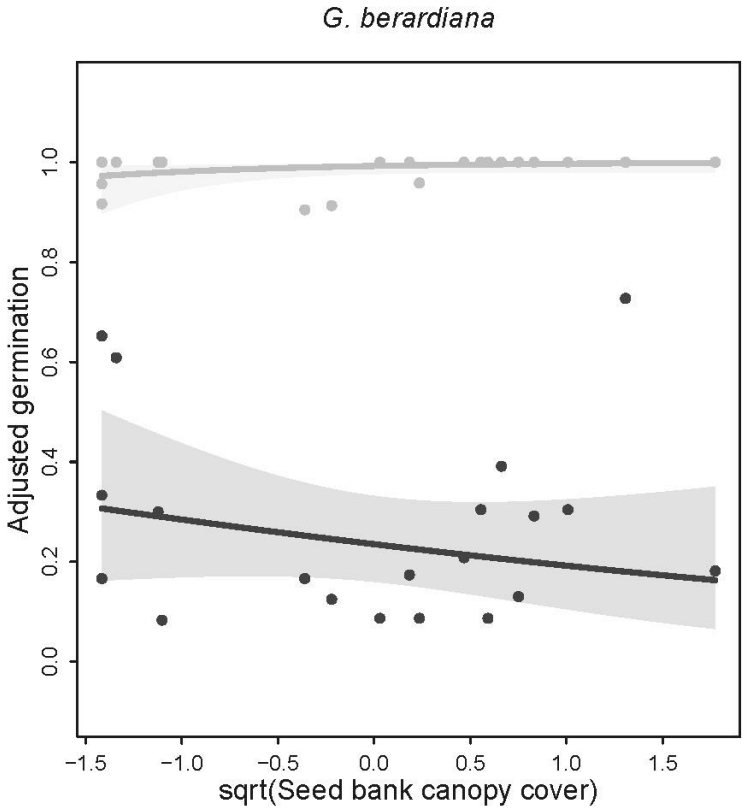

Figure S1: Relationship between species adjusted germination percentages and scaled sqrt(Seed bank canopy cover) in light (12h diurnal light) or dark conditions. Grey points represent adjusted germination percentages under light conditions while black points represent dark conditions. Solid lines represent the fitted relationship while the grey fields represent the 95% credible interval around the fitted relationship.

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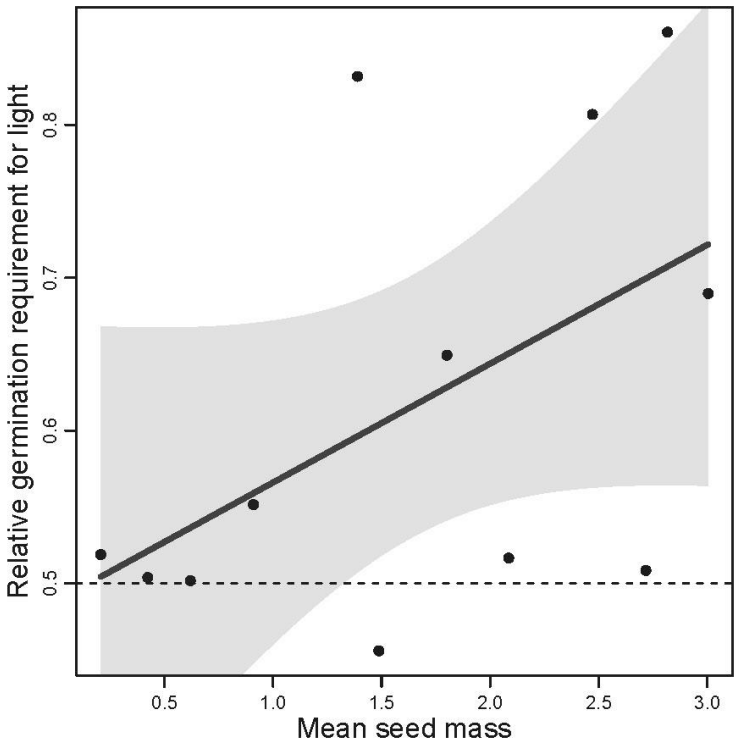

Figure S2: Relationship between species' relative germination requirement for light (RLG) and species-level mean seed mass. Solid lines represent the fitted relationship while the grey fields represent the 95% credible interval around the fitted relationship. RLG values above the dashed line indicate higher germination under light than dark and *vice versa* below the dashed line.

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