

Effect of diet on incipient colony success for two long-tongued bumblebee species in the laboratory

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SUPPLEMENTARY TABLES

Supplementary Table 1 Parameters and output of the generalised linear models used to test the effect of species, diet and their interaction on five measures of queen success. All queens ($n = 81$) were included in the first two models on early-stage colony development and thereafter models only included either queens that produced L3 larvae ($n = 51$), or queens that produced workers ($n = 21$). Link functions were selected based on the data distribution and lowest AIC values.

Measure of queen success	No. queens included in model	Model parameters	Sig.
Proportion of queens that produced eggs	81	Binomial, logit	Species $p = 0.862$ Diet $p = 0.019$ Species x diet $p = 0.045$
Proportion of queens that produced L3 larvae	81		Species $p = 0.77$ Diet $p = 0.026$ Species x diet $p = 0.032$
Proportion of queens that produced workers	51		Species $p = 0.006$ Diet $p = 0.073$ Species x diet $p = 0.049$
No. weeks until L3 larvae were produced	51	Poisson, log	Species $p = 0.643$ Diet $p = 0.080$ Species x diet $p = 0.035$
Mean no. workers produced	21		Species $p = 0.698$ Diet $p = 0.914$ Species x diet $p = 0.539$