

Supplementary information

Table S1

List of species that were included in functional redundancy and response diversity analyses. 'Total collected' is the total number of individuals collected per species across all sites. 'No. sites present' is the total number of sites that each species was present at.

Species	Order	Family	Exotic/Native	Functional group	Total collected	No. sites present
<i>Anthomyia punctipennis</i>	Diptera	Anthomyiidae	Exotic	4	84	6
<i>Bombus terrestris</i>	Hymenoptera	Apidae	Exotic	5	66	8
<i>Calliphora stygia</i>	Diptera	Calliphoridae	Exotic	1	14	7
<i>Campylia</i> sp	Diptera	Tachininae	Native	2	17	4
<i>Delia platura</i>	Diptera	Anthomyiidae	Exotic	4	736	12
<i>Delia</i> sp	Diptera	Anthomyiidae	Exotic	4	434	12
<i>Eristalis tenax</i>	Diptera	Syrphidae	Exotic	1	1,010	12
<i>Helophilus hochstetteri</i>	Diptera	Syrphidae	Native	1	31	10
<i>Hydrotaea rostrata</i>	Diptera	Muscidae	Exotic	2	15	5
<i>Inopus rubriceps</i>	Diptera	Stratiomyidae	Exotic	4	18	6
<i>Lasioglossum cognatum</i>	Hymenoptera	Halictidae	Native	6	236	10
<i>Lasioglossum sordidum</i>	Hymenoptera	Halictidae	Native	6	99	9

<i>Leioproctus boltoni</i>	Hymenoptera	Colletidae	Native	3	73	5
<i>Leioproctus huakiwi</i>	Hymenoptera	Colletidae	Native	3	17	4
<i>Leioproctus imitatus</i>	Hymenoptera	Colletidae	Native	3	90	7
<i>Leioproctus kanapuu</i>	Hymenoptera	Colletidae	Native	3	22	6
<i>Leioproctus paahaumaa</i>	Hymenoptera	Colletidae	Native	3	124	7
<i>Melangyna novaezelandiae</i>	Diptera	Syrphidae	Native	2	46	10
<i>Melanostoma fasciatum</i>	Diptera	Syrphidae	Native	4	213	12
<i>Odontomyia</i> sp	Diptera	Stratiomyidae	Native	1	19	3
<i>Oxysarcodexia varia</i>	Diptera	Sarcophagidae	Exotic	2	271	11
<i>Spilagona melas</i>	Diptera	Muscidae	Exotic	2	18	4

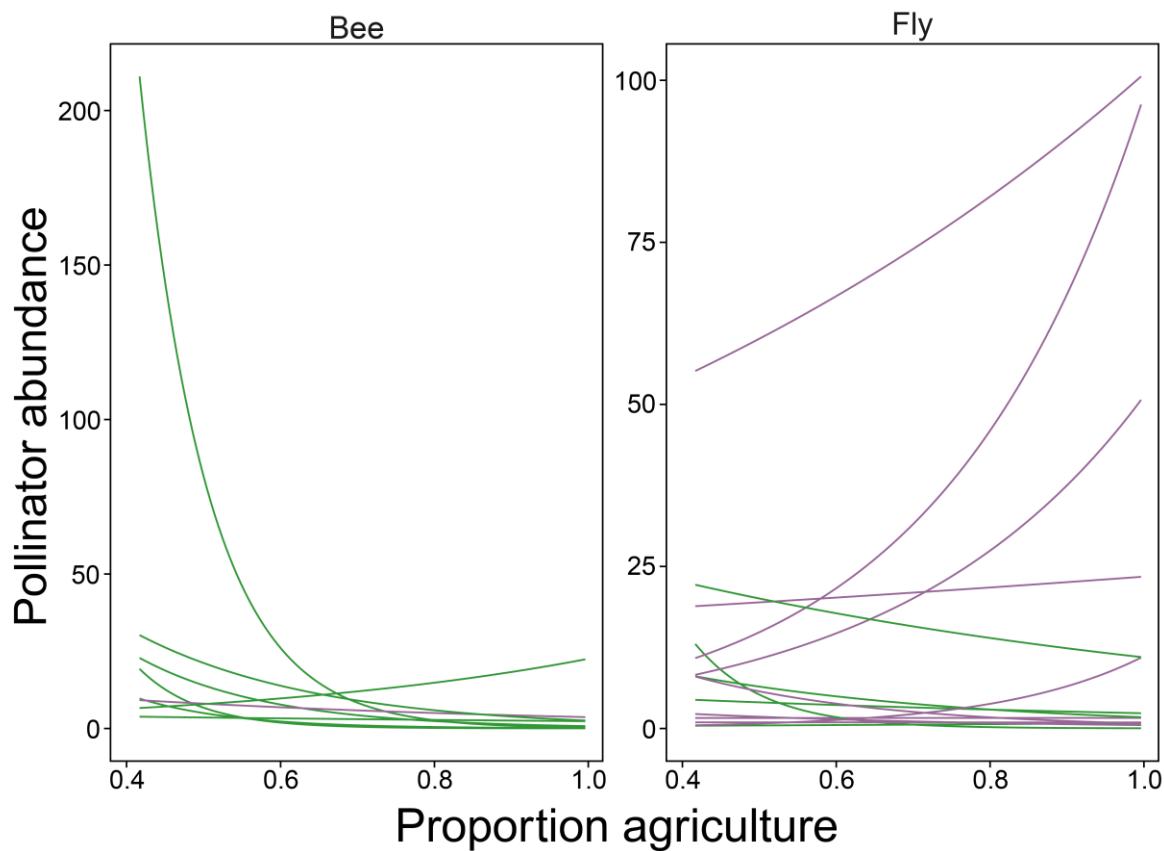


Figure S1. The relationship between pollinator abundance and the proportion of agriculture, comparing bees *vs.* flies and native *vs.* exotic species; purple lines are exotic species and green lines are native species.