**Appendices for“Low overnight temperatures delay ‘Hass’ avocado (*Persea americana*) female flower opening, providing opportunity for nocturnal pollination” by Pattemore, Buxton, Cutting, McBrydie, Goodwin & Dag.**

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**Appendix 1:** Daily variation in minimum (open symbols) and maximum (filled symbols) temperatures recorded at the Tauranga Aerodrome weather station (37.673S, 176.196E) in 2011 (circles), 2012 (triangles) and 2013 (squares) over the avocado flowering season from September through December each year.

**Appendix 2:** Insect visitors to ‘Hass’ avocado flowers, the total number caught, the number of individuals that were carrying avocado pollen, and the average number of avocado pollen grains carried. ‘Number caught’ refers to the number of individuals caught, ‘Number carrying pollen’ refers to the number of individuals found to be carrying pollen, and ‘Avg. number pollen carried’ represents the average number of pollen grains carried per individual that carried pollen.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Order | Family | Species | Number caught | Number carrying pollen | Avg. number grains |
| Araneae | Unknown | sp. | 1 | 1 | 1 |
| Blattodea | Blattidae | sp. | 1 | 0 | - |
| Coleoptera | Scarabaeidae | *Costelytra zealandica* | 14 | 10 | 9.2 |
|  | Cerymbicidae | *Oemona hirta* | 1 | 1 | 5 |
|  |  | *Zorion* sp*.* | 1 | 0 | - |
|  | Chrysomelidae | *Diachus auratus* | 1 | 1 | 30 |
|  |  | *Eucolaspis* sp*.* | 1 | 1 | 17 |
|  | Scirtidae | *Scirtidae* sp*.* | 1 | 0 | - |
| Diptera | Anisopodidae | *Sylvicola* sp*.* | 8 | 6 | 40.5 |
|  | Bibionidae | *Dilophus nigrostigma* | 1 | 1 | 26 |
|  |  | sp. | 1 | 1 | 171 |
|  | Chironomidae | *Chironomus* sp*.* | 2 | 2 | 3.5 |
|  | Drosophilidae | *Drosophila* sp*.* | 1 | 1 | 13 |
|  | Mycetophilidae | *Anomalomyia* sp*.* | 1 | 1 | 3 |
|  |  | *Macrocera fenestrata* | 1 | 0 | - |
|  |  | *Macrocera scoparia* | 1 | 1 | 6 |
|  | Psychodidae | sp. | 4 | 0 | - |
|  | Tipulidae | sp. | 10 | 8 | 32 |
| Heteroptera | Miridae | *Diomocorus* sp. | 11 | 3 | 2 |
| Hymenoptera | Ichneumonidae | *Netelea ephippiata* | 1 | 1 | 4 |
| Lepidoptera | Carposinidae | *Heterocrossa contactella* | 1 | 0 | - |
|  |  | *Heterocrossa exochana* | 1 | 0 | - |
|  | Crambidae | *Eudonia minusculalis* | 1 | 0 | - |
|  |  | *Eudonia submarginalis* | 1 | 0 | - |
|  |  | *Musotima ochropteralis* | 2 | 0 | - |
|  |  | *Orocrambus flexosiellus* | 7 | 0 | - |
|  |  | *Orocrambus apicellus* | 1 | 0 | - |
|  | Gelechiidae | *Phthorimaea operculella* | 1 | 0 | - |
|  |  | *Symmetrischema plaesiosema* | 1 | 0 | - |
|  | Geometridae | *Chloroclystis filata* | 1 | 0 | - |
|  |  | *Chloroclystis inductata* | 1 | 0 | - |
|  |  | *Declana floccosa* | 1 | 3 | 3 |
|  |  | *Epyaxa rosearia* | 1 | 0 | - |
|  |  | *Phrissogonus laticostatus* | 1 | 0 | - |
|  |  | *Pseudocoremia suavis* | 6 | 1 | 1 |
|  |  | *Scopula rubraria* | 1 | 0 | - |
|  | Gracillariidae | *Conopomorpha cyanospila* | 1 | 0 | - |
|  | Noctuidae | *Agrotis ipsilon* | 2 | 0 | - |
|  |  | *Mythimna separata* | 1 | 0 | - |
|  |  | *Rhapsa scotosialis* | 5 | 1 | 3 |
|  | Pterophoridae | *Platyptilla falcatalis* | 1 | 0 | - |
|  | Tineidae | *Opogona omoscopa* | 3 | 1 | 1 |
|  | Tortricidae | *Ctenopseustis obliquana* | 3 | 0 | - |
|  |  | *Epiphyas postvittana* | 3 | 0 | - |
| Neuroptera | Hemerobiidae | *Micromus tasmaniae* | 12 | 5 | 17 |