**Table 1**: Pollinator species list

|  |  |  |  |
| --- | --- | --- | --- |
| Order | Family | Species | Abbreviation |
| Hymenoptera | Apidae | *Apis mellifera* (Linnaeus, 1758)  *Bombus terrestris* (Linnaeus, 1758)  *Netelia producta* (Brullé, 1846) | apimel  bomter  netpro |
|  | Halictidae | *Lasioglossum sordidum* (Smith, 1853) | lassor |
|  | Ichneumonidae | *Ichneumon promissorius* | ichpro |
| Diptera | Anthomyiidae | *Delia platura (*Meigen, 1826) | delpla |
|  | Calliphoridae | *Calliphora stygia* (Fabricius, 1794) | calsty |
|  |  | *Calliphora vicina* (Robineau-Desvoidy, 1830) | calvi |
|  |  | *Pollenia pseudorudis* (Rognes, 1985) | polpse |
|  | Stratiomyidae | *Odontomyia atrovirens* | odoatr |
|  | Syrphidae | *Eristalis tenax* (Linnaeus, 1758) | eristen |
|  |  | *Melangyna novae-zelandiae* (Macquart, 1855) | melnov |
|  |  | *Helophilus hochstetteri* Nowicki, 1875 | helhoc |
|  | Sarcophagidae | *Oxysarcodexia varia* (Walker, 1836) | oxyvar |
|  | Tachinidae | *Pales marginata* (Hutton, 1901) | palmar |
|  | Staphylinidae | *Thyreocephalus orthodoxus* | thyort |

**Table 2**: Plant species list

|  |  |
| --- | --- |
| Family | Species |
| Apicaeae | *Daucus carota* |
| Asparagaceae | *Cordyline sp.* |
| Asteraceae | *Cirsium vulgare*  *Taraxacum officinale* |
| Betulaceae | *Alnus glutinosa*  *Alnus serrulata* |
| Brassicaceae | *Raphanus sp.* |
| Chenopodiaceae | *Chenopodium album* |
| Fabaceae | *Trifolium sp.* |
| Malvaceae | *Acea sp.*  *Sp. (other)* |
| Myrtaceae | *Eucalyptus globulus*  *Eucalyptus nitens* |
| Poaceae | *Lolium sp.* |
| Rosaceae | *Rubus fruticosus* |

**Table 3**: Insect functional traits used in this study and data sources. Data were collected in Field Based Observation Studies (FBOS) conducted by Rader et al., 2014, or from other Literature (LIT): Colles & McAlpine 1991; Howlett *et al.* 2005; Donovan 2007; Michener 2007; Rader *et al.* 2009.

# represents number of individuals sampled.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Pollinator traits  (and abbreviations) | Mean | Range | Unit | Data source | Reference | # |
| Average body length (“size”) | 10.5 | 15.1 | mm | FBOS | This study | 10 |
| Average body width between the base of the wings (“size”) | 3.3 | 5.6 | mm | FBOS | This study | 10 |
| Pollen carrying structure  (“carrying\_struct”) | - | - | - | LIT | 3-5 | - |
| Mean duration of flower visitation (“flw\_vis\_time”) | 8.8 | 14.1 | seconds | FBOS | 1 | 30 |
| Foraging preference for nectar or pollen (“adult\_diet\_pref”) | - | - | % | FBOS | 1 | 20 |
| Social or solitary (“soc\_sol”) | - | - | - | LIT | 3,4 | - |
| Feeding preference of larvae (“larval\_diet\_pref”) | - | - | - | LIT | 3,4 | - |
| Peak daily activity based on abundances (“circ\_abund”) | 257.3 | 5683 | Insects | FBOS | This study | - |
| Peak seasonal activity based on abundances (“season”) | 89.1 | 3273 | Insects | FBOS | This study |  |

**Table 4:** Plant functional traits used in this study and category description. All traits were measured for the study of Rader et al., 2014 and provided by R. Rader.

|  |  |
| --- | --- |
| Plant trait | Description |
| growth\_form | 1. grass 2. herb 3. shrub 4. tree |
| longitivity | 1. annual 2. biennial 3. perennial |
| type\_infl (type of inflorescence) | 1. spike, raceme, panicle/cyme/thyrse, umbel/corymb 2. captitulum/head 3. catkin |
| pollnec\_acces (ease of acces to pollen/nectar) | 1. open or easy access to nectar and pollen 2. tubular or hidden resources or closed/restrictive access |
| single\_infl (clustering of inflorescence) | 1. solitary flower or small clusters of single flowers 2. inflorescence |
| flo\_per\_infl (number of flowers per inflorescence) | 1. tens of flowers 2. hundreds 3. thousands |
| fragrance | 1. none 2. some 3. yes |
| nec\_per\_pol\_per\_day (amount of nectar per flower unit per day) | 1. < 1 μ 2. 1-5 μl 3. > 6 μl |
| flo\_symmetry (symmetry of flower) | 1. actinomorphic 2. zygomorphic |
| infl\_symmetry (symmetry of whole inflorescence) | 1. actinomorphic 2. zygomorphic |
| season | Presence/absence of flowers across the 4 seasons |
| flo\_sex | 1. monoecious 2. dioecious |
|  |  |