**Table S2.** Abundance of adult insect orders and families found on each plant type during each sampling period (June, July, and August). Families in bold are those analysed in the multiGLM and CAP analyses (see text).

|  |  | **June** |  | **July** |  | **August** |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Insect order** | **Insect family** | **Rose** | **Russian****olive** | **Saskatoon** |  | **Rose** | **Russian****olive** | **Saskatoon** |  | **Rose** | **Russian olive** | **Saskatoon** | **Total** |
| Coleoptera | **Anthicidae** | 1 | 11 | 0 |  | 0 | 0 | 0 |  | 0 | 0 | 0 | 12 |
| Coleoptera | Bruchidae | 1 | 0 | 0 |  | 0 | 0 | 0 |  | 0 | 0 | 0 | 1 |
| Coleoptera | Buprestidae | 1 | 0 | 0 |  | 0 | 0 | 0 |  | 0 | 0 | 0 | 1 |
| Coleoptera | Chrysomelidae | 1 | 0 | 0 |  | 2 | 0 | 0 |  | 0 | 0 | 0 | 3 |
| Coleoptera | Cleridae | 0 | 3 | 1 |  | 0 | 0 | 0 |  | 0 | 0 | 0 | 4 |
| Coleoptera | **Coccinellidae** | 2 | 5 | 1 |  | 8 | 2 | 3 |  | 17 | 4 | 4 | 46 |
| Coleoptera | **Curculionidae** | 9 | 1 | 5 |  | 0 | 0 | 0 |  | 2 | 3 | 0 | 20 |
| Coleoptera | Dermestidae | 1 | 0 | 0 |  | 0 | 0 | 0 |  | 0 | 0 | 0 | 1 |
| Coleoptera | Eucnemidae | 1 | 0 | 0 |  | 0 | 0 | 0 |  | 0 | 0 | 0 | 1 |
| Coleoptera | Lathridiidae | 0 | 1 | 0 |  | 1 | 1 | 0 |  | 0 | 3 | 0 | 6 |
| Coleoptera | Mordellidae | 0 | 1 | 0 |  | 0 | 0 | 0 |  | 0 | 0 | 0 | 1 |
| Coleoptera | Nitidulidae | 0 | 1 | 1 |  | 0 | 0 | 0 |  | 0 | 0 | 0 | 2 |
| Coleoptera | **Scraptiidae** | 9 | 10 | 0 |  | 0 | 0 | 0 |  | 0 | 0 | 0 | 19 |
| Coleoptera | Tenebrionidae | 0 | 0 | 1 |  | 0 | 0 | 0 |  | 0 | 0 | 0 | 1 |
| Dermaptera | **Forficulidae** | 0 | 0 | 0 |  | 1 | 1 | 3 |  | 16 | 4 | 0 | 25 |
| Diptera | Acroceridae | 0 | 0 | 0 |  | 0 | 0 | 0 |  | 1 | 0 | 0 | 1 |
| Diptera | Anthomyiidae | 1 | 0 | 0 |  | 0 | 0 | 0 |  | 0 | 0 | 0 | 1 |
| Diptera | Chaoboridae | 0 | 0 | 1 |  | 0 | 0 | 0 |  | 0 | 0 | 0 | 1 |
| Diptera | **Chironomidae** | 16 | 11 | 16 |  | 9 | 6 | 1 |  | 6 | 9 | 3 | 77 |
| Diptera | Chloropidae | 0 | 4 | 0 |  | 0 | 0 | 0 |  | 0 | 0 | 0 | 4 |
| Diptera | Culicidae | 0 | 0 | 1 |  | 0 | 0 | 0 |  | 0 | 0 | 0 | 1 |
| Diptera | Heleomyzidae | 0 | 2 | 0 |  | 0 | 0 | 0 |  | 0 | 0 | 0 | 2 |
| Diptera | Hybotidae | 1 | 0 | 2 |  | 0 | 0 | 0 |  | 0 | 0 | 0 | 3 |
| Diptera | Muscidae | 0 | 0 | 0 |  | 0 | 1 | 0 |  | 0 | 0 | 0 | 1 |
| Diptera | Sciaridae | 0 | 1 | 2 |  | 0 | 0 | 0 |  | 0 | 1 | 0 | 4 |

**Table S2 (continued).** Abundance of adult insect orders and families found on each plant type during each sampling period (June, July, and August).

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | **June** |  | **July** |  | **August** |  |
| **Insect order** | **Insect family** | **Rose** | **Russian****olive** | **Saskatoon** |  | **Rose** | **Russian****olive** | **Saskatoon** |  | **Rose** | **Russian olive** | **Saskatoon** | **Total** |
| Diptera | Syrphidae | 0 | 0 | 1 |  | 0 | 0 | 0 |  | 0 | 0 | 0 | 1 |
| Diptera | Tachinidae | 0 | 0 | 1 |  | 0 | 0 | 0 |  | 0 | 0 | 0 | 1 |
| Ephemeroptera | Ephemeridae | 0 | 1 | 0 |  | 0 | 0 | 0 |  | 0 | 0 | 0 | 1 |
| Ephemeroptera | Heptageniidae | 0 | 1 | 0 |  | 0 | 0 | 0 |  | 0 | 0 | 0 | 1 |
| Hemiptera | Adelgidae | 0 | 0 | 0 |  | 0 | 0 | 0 |  | 0 | 1 | 0 | 1 |
| Hemiptera | Aleyrodidae | 2 | 0 | 0 |  | 0 | 0 | 0 |  | 0 | 0 | 0 | 2 |
| Hemiptera | Anthocoridae | 0 | 3 | 1 |  | 1 | 0 | 0 |  | 0 | 0 | 0 | 5 |
| Hemiptera | **Aphididae** | 73 | 11 | 16 |  | 6 | 0 | 0 |  | 3 | 2 | 1 | 112 |
| Hemiptera | **Cercopidae** | 1 | 1 | 0 |  | 1 | 2 | 0 |  | 3 | 3 | 1 | 12 |
| Hemiptera | Cicadellidae | 1 | 0 | 0 |  | 0 | 2 | 0 |  | 0 | 3 | 2 | 8 |
| Hemiptera | Eriosomatidae | 0 | 0 | 1 |  | 0 | 0 | 0 |  | 0 | 0 | 0 | 1 |
| Hemiptera | Miridae | 3 | 4 | 0 |  | 0 | 0 | 0 |  | 0 | 0 | 0 | 7 |
| Hemiptera | Nabidae | 0 | 0 | 0 |  | 0 | 0 | 0 |  | 1 | 0 | 0 | 1 |
| Hemiptera | Pentatomidae | 0 | 1 | 1 |  | 0 | 0 | 0 |  | 6 | 1 | 0 | 9 |
| Hemiptera | Pseudococcidae | 0 | 1 | 0 |  | 0 | 0 | 0 |  | 0 | 0 | 0 | 1 |
| Hemiptera | Psyllidae | 1 | 0 | 1 |  | 0 | 0 | 0 |  | 0 | 0 | 0 | 2 |
| Hemiptera | Rhopalidae | 0 | 0 | 0 |  | 0 | 0 | 1 |  | 0 | 0 | 1 | 2 |
| Hemiptera | **Tingidae** | 0 | 1 | 21 |  | 1 | 1 | 136 |  | 1 | 3 | 221 | 385 |
| Hymenoptera | Aphelinidae | 0 | 0 | 3 |  | 0 | 0 | 0 |  | 0 | 1 | 0 | 4 |
| Hymenoptera | Bethylidae | 0 | 0 | 1 |  | 0 | 0 | 0 |  | 0 | 0 | 0 | 1 |
| Hymenoptera | Braconidae | 0 | 0 | 1 |  | 0 | 0 | 0 |  | 0 | 0 | 0 | 1 |
| Hymenoptera | Cynipidae | 1 | 0 | 0 |  | 1 | 0 | 0 |  | 4 | 0 | 0 | 6 |
| Hymenoptera | Encyrtidae | 1 | 2 | 1 |  | 0 | 1 | 0 |  | 0 | 0 | 0 | 5 |

**Table S2 (continued).** Abundance of adult insect orders and families found on each plant type during each sampling period (June, July, and August).

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | **June** |  | **July** |  | **August** |  |
| **Insect order** | **Insect family** | **Rose** | **Russian****olive** | **Saskatoon** |  | **Rose** | **Russian****olive** | **Saskatoon** |  | **Rose** | **Russian olive** | **Saskatoon** | **Total** |
| Hymenoptera | **Eulophidae** | 5 | 62 | 5 |  | 0 | 0 | 0 |  | 0 | 0 | 0 | 72 |
| Hymenoptera | Eupelmidae | 0 | 1 | 0 |  | 0 | 0 | 0 |  | 0 | 0 | 0 | 1 |
| Hymenoptera | Eurytomidae | 1 | 0 | 2 |  | 0 | 0 | 0 |  | 0 | 0 | 0 | 3 |
| Hymenoptera | **Formicidae** | 45 | 42 | 5 |  | 20 | 4 | 3 |  | 15 | 21 | 2 | 157 |
| Hymenoptera | Ichneumonidae | 0 | 0 | 0 |  | 0 | 0 | 0 |  | 1 | 0 | 0 | 1 |
| Hymenoptera | Mymaridae | 1 | 0 | 0 |  | 0 | 0 | 0 |  | 0 | 0 | 0 | 1 |
| Hymenoptera | Perilampidae | 0 | 0 | 0 |  | 0 | 0 | 0 |  | 0 | 1 | 0 | 1 |
| Hymenoptera | Pteromalidae | 1 | 2 | 0 |  | 0 | 0 | 0 |  | 0 | 0 | 0 | 3 |
| Hymenoptera | Sphecidae | 0 | 0 | 0 |  | 0 | 0 | 0 |  | 0 | 1 | 0 | 1 |
| Hymenoptera | Tenthredinidae | 1 | 0 | 0 |  | 0 | 0 | 0 |  | 0 | 0 | 0 | 1 |
| Hymenoptera | **Torymidae** | 11 | 0 | 1 |  | 0 | 0 | 0 |  | 0 | 0 | 0 | 12 |
| Hymenoptera | Trichogrammatidae | 1 | 0 | 0 |  | 0 | 0 | 0 |  | 0 | 0 | 0 | 1 |
| Lepidoptera | Heliozelidae | 1 | 0 | 0 |  | 0 | 0 | 0 |  | 0 | 0 | 0 | 1 |
| Lepidoptera | Hesperiidae | 0 | 0 | 0 |  | 0 | 0 | 0 |  | 1 | 0 | 0 | 1 |
| Orthoptera | Gryllidae | 0 | 0 | 0 |  | 0 | 0 | 0 |  | 0 | 2 | 0 | 2 |
| Psocoptera | Psocidae | 0 | 0 | 0 |  | 0 | 1 | 0 |  | 0 | 0 | 0 | 1 |
| Psocoptera | Stenopsocidae | 1 | 0 | 0 |  | 0 | 0 | 0 |  | 0 | 0 | 0 | 1 |
| Thysanoptera | Aeolothripidae | 1 | 1 | 0 |  | 1 | 1 | 1 |  | 0 | 0 | 0 | 5 |
| Thysanoptera | Phlaeothripidae | 0 | 0 | 1 |  | 1 | 1 | 1 |  | 0 | 1 | 0 | 5 |
| Thysanoptera | **Thripidae** | 33 | 171 | 13 |  | 17 | 28 | 10 |  | 1 | 1 | 2 | 276 |
| Trichoptera | Glossosomatidae | 0 | 0 | 0 |  | 1 | 0 | 0 |  | 0 | 0 | 0 | 1 |
| Trichoptera | Hydroptilidae | 2 | 2 | 0 |  | 0 | 0 | 0 |  | 0 | 0 | 1 | 5 |
| Trichoptera | Philopotamidae | 0 | 0 | 0 |  | 0 | 0 | 0 |  | 1 | 0 | 0 | 1 |