

Appendix 1: Counts of the numbers of individuals from spider, fly, and beetle families captured at the 4 paired invaded and uninvaded sites over the study period. Results of the randomised blocks ANOVA have been summarised for those groups in which at least 30 individuals were captured at either the invaded or uninvaded sites (\* denotes  $P > 0.05$ ).

| Order         | Family          | Inv.          | Uninv. | Season*site<br>F-value<br>(df = 9,9) | Season*invasion<br>F-value<br>(df = 1,3) | Season<br>F-value<br>(df = 1,3) |
|---------------|-----------------|---------------|--------|--------------------------------------|--|---------------------------------|
| Spiders       | Zodariidae      | 10            | 78     | 1.148                                | 0.947                                    | 1.344                           |
|               | Lycosidae       | 26            | 45     | 1.135                                | 352.636 *                                | 395.498 *                       |
|               | Clubionidae     | 2             | 1      | -                                    | -  | -                               |
|               | Theridiidae     | 25            | 32     | 1.310                                | 0.993                                    | 7.218                           |
|               | Salticidae      | 3             | 1      | -                                    | -  | -                               |
|               | Linyphiidae     | 17            | 12     | -                                    | -  | -                               |
|               | Gnaphosidae     | 13            | 15     | -                                    | -  | -                               |
|               | Prodidomidae    | -             | 11     | -                                    | -  | -                               |
|               | Pholcidae       | 1             | -      | -                                    | -  | -                               |
|               | Lamponidae      | 3             | 3      | -                                    | -  | -                               |
|               | Corrinnidae     | -             | 2      | -                                    | -  | -                               |
|               | Dysteridae      | 3             | 2      | -                                    | -  | -                               |
|               | Megalopsalidae  | -             | 2      | -                                    | -  | -                               |
|               | Thomisidae      | -             | 1      | -                                    | -  | -                               |
|               | Oonopidae       | -             | 2      | -                                    | -  | -                               |
|               | Lycidas         | 2             | 3      | -                                    | -  | -                               |
|               | Indeterminate   | -             | 3      | -                                    | -  | -                               |
| Flies         | Cecidomyiidae   | 46            | 29     | 0.712                                | 0.778                                    | 18.535                          |
|               | Odiniidae       | -             | 12     | -                                    | -  | -                               |
|               | Ephydriidae     | 31            | 8      | 0.984                                | 8.969                                    | 31.614                          |
|               | Mycetophilidae  | 5             | 5      | -                                    | -  | -                               |
|               | Sphaeroceridae  | 24            | 28     | -                                    | -  | -                               |
|               | Lauxaniidae     | 6             | 2      | -                                    | -  | -                               |
|               | Chironomidae    | 38            | 108    | 1.388                                | 12.064                                   | 503.109 *                       |
|               | Anthomyiidae    | 7             | 17     | -                                    | -  | -                               |
|               | Phoridae        | 1085          | 527    | 0.945                                | 1.144                                    | 33.516                          |
|               | Chloropidae     | 10            | 244    | 1.197                                | 16.118                                   | 19.201                          |
|               | Therevidae      | 1             | 5      | -                                    | -  | -                               |
|               | Asteiidae       | 1             | -      | -                                    | -  | -                               |
|               | Culicidae       | -             | 1      | -                                    | -  | -                               |
|               | Dolichopodidae  | 6             | 18     | -                                    | -  | -                               |
|               | Empididae       | 1             | 1      | -                                    | -  | -                               |
|               | Psychodidae     | -             | 9      | -                                    | -  | -                               |
|               | Ceratopogonidae | -             | 2      | -                                    | -  | -                               |
|               | Calliphoridae   | 3             | 6      | -                                    | -  | -                               |
|               | Sciaridae       | 160           | 408    | 1.908                                | 0.858                                    | 3.645                           |
|               | Muscidae        | 2             | 2      | -                                    | -  | -                               |
|               | Tachinidae      | -             | 1      | -                                    | -  | -                               |
|               | Agromyzidae     | 3             | 1      | -                                    | -  | -                               |
|               | Drosophilidae   | -             | 2      | -                                    | -  | -                               |
|               | Beetles         | Curculionidae | 144    | 84                                   | 0.989                                    | 505.285 *                       |
| Tenebrionidae |                 | 55            | 26     | 0.858                                | 3.000                                    | 773.435 *                       |

|       |                 |    |     |       |        |        |
|-------|-----------------|----|-----|-------|--------|--------|
|       | Corylophidae    | 21 | 10  | -     | -      | -      |
|       | Staphylinidae   | 37 | 69  | 0.469 | 0.992  | 0.383  |
|       | Histeridae      | 4  | -   | -     | -      | -      |
|       | Coccinellidae   | 1  | 2   | -     | -      | -      |
|       | Scarabaeidae    | 61 | 110 | 2.437 | 20.755 | 152.13 |
|       | Carabidae       | 26 | 25  | -     | -      | -      |
|       | Anthicidae      | 45 | 1   | 1.000 | 1.000  | 0.333  |
|       | Latridiidae     | 2  | 3   | -     | -      | -      |
|       | Leiodidae       | 1  | 1   | -     | -      | -      |
|       | Elateridae      | 6  | 5   | -     | -      | -      |
|       | Scydmaenidae    | 1  | -   | -     | -      | -      |
|       | Chryptophagidae | -  | 3   | -     | -      | -      |
|       | Chrysomelidae   | 2  | 1   | -     | -      | -      |
|       | Anobiidae       | 2  | 1   | -     | -      | -      |
|       | Languriidae     | -  | 1   | -     | -      | -      |
|       | Dermesidae      | -  | 3   | -     | -      | -      |
|       | Byrrhidae       | -  | 3   | -     | -      | -      |
|       | Ptiliidae       | 1  | 3   | -     | -      | -      |
|       | Pselaphidae     | 1  | -   | -     | -      | -      |
| Wasps | Pteromalidae    | 6  | 3   | -     | -      | -      |
|       | Encyrtidae      | 4  | 9   | -     | -      | -      |
|       | Aphelinidae     | 2  | 10  | -     | -      | -      |
|       | Platygastridae  | 4  | 8   | -     | -      | -      |
|       | Scelionidae     | 55 | 37  | 1.677 | 0.780  | 22.062 |
|       | Bethylidae      | 5  | 11  | -     | -      | -      |
|       | Agaonidae       | -  | 9   | -     | -      | -      |
|       | Diapriidae      | 15 | 10  | -     | -      | -      |
|       | Braconidae      | 3  | 3   | -     | -      | -      |
|       | Sphecidae       | -  | 1   | -     | -      | -      |
|       | Ceraphonidae    | 5  | 6   | -     | -      | -      |
|       | Megaspilidae    | 3  | 1   | -     | -      | -      |
|       | Tiphiidae       | 2  | -   | -     | -      | -      |
|       | Mymaridae       | 4  | 1   | -     | -      | -      |
|       | Eulophidae      | 13 | 16  | -     | -      | -      |
|       | Mutilidae       | 6  | 16  | -     | -      | -      |
|       | Chalcididae     | -  | 2   | -     | -      | -      |
|       | Ceraphoridae    | 5  | 6   | -     | -      | -      |
|       | Pompilidae      | -  | 1   | -     | -      | -      |
|       | Ichneumoindae   | -  | 1   | -     | -      | -      |
|       | Scoliidae       | 1  | 1   | -     | -      | -      |