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**Appendices to J Poll Ecol 32(13), Mahon & Hodge**

Supplementary File S1. Rank correlations between different weather variables and between different floral variables used as explanatory factors in models of timed pollinator counts

**Spearman’s rank correlation coefficient**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Air Press |  |  |  |  |  |  |
| Cloud | 0.105 |  |  |  |  |  |
| Light | 0.032 | -0.745 |  |  |  |  |
| RH | 0.038 | 0.453 | -0.324 |  |  |  |
| Temp | -0.139 | -0.363 | 0.398 | -0.315 |  |  |
| Wind | 0.067 | 0.105 | -0.08 | 0.135 | -0.039 |  |
|  | Air Press | Cloud | Light | RH | Temp | Wind |
|  |  |  |  |  |  |  |
| **P** |  |  |  |  |  |
| Air Press |  |  |  |  |  |  |
| Cloud | 0.255 |  |  |  |  |  |
| Light | 0.732 | 0.000 |  |  |  |  |
| RH | 0.678 | 0.000 | 0.000 |  |  |  |
| Temp | 0.130 | 0.000 | 0.000 | 0.000 |  |  |
| Wind | 0.464 | 0.254 | 0.387 | 0.141 | 0.673 |  |
|  | Air Press | Cloud | Light | RH | Temp | Wind |

|  |  |  |  |
| --- | --- | --- | --- |
| **Spearman’s rank correlation coefficient** | | | |
| Floral cover |  |  |  |
| Floral spp | 0.276 |  |  |
| Floral units | 0.933 | 0.204 |  |
|  | Cover | Species | Units |
|  |  |  |  |
| **P** | |  |  |
| Floral cover |  |  |  |
| Floral spp | 0.002 |  |  |
| Floral units | 0.000 | 0.026 |  |
|  | Cover | Species | Units |

Supplementary File S2. Scatterplots showing relationship of counts of pollinators visiting flowers in a 2 x 2 m plot in a 30-minute period with environmental and weather conditions.



Supplementary File S3. Scatterplots showing relationship of counts of pollinators visiting flowers in a 2 x 2 m plot in a 30-minute period with the number of floral units present, floral cover, and floral species richness.



Supplementary File S4. Relationship between total counts of four pollinator groups (*Bombus* spp., *Apis mellifera*, solitary bees, syrphids) and the calculated OP90 (the time required to detect each in 90% of surveys), and the proportions of 5-minute (P5) and 30-minute (P30) surveys in which each group was present. Pollinators were recorded over a 20-hour period (40 x 30 minutes) in 2 x 2 m plots assigned as having low, medium, and high flower density.

