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| **Supplementary Table 1.** Summary table of all generalised linear models fitted in data analysis. For explanations of dispersion tests and R2 used, see Supplementary Text. | | | | | | | | | |
|  | **Dataset** | **Response variable** | | **Explanatory variables** | **glm family** | **Dispersion test** | **Dispersion parameter** | **Data trans-formation** | **R2 used** |
| **FAW abundance** | VM herbivory | Leaf damage (number of leaves damaged, number of leaves undamaged) | | Distance, Field ID | Quasi-binomial | Bolker | 7.19 | NA | R2D, Dγ |
| UM1 herbivory | Leaf damage (number of leaves damaged, number of leaves undamaged) | | Distance\*Day since planting | Binomial | Bolker | 1 | NA | R2D, γ |
| **Natural enemy abundance** | UM1 pitfall traps | Araneae | Total abundance | Distance\*Day since planting, Habitat type | Quasi-poisson | AER | 2.79 (1.96††) | NA | R2D, Dγ |
| Species richness | Quasi-poisson | AER | 1.11 | NA | R2D, Dγ |
| Inverse Simpsons† | Gaussian | NA | NA | Log | R2 |
| Hymenoptera | Total abundance | Quasi-poisson | AER | 7.87 | NA | R2D, Dγ |
| Species richness | Poisson | AER | 1 | NA | R2D, γ |
| Inverse Simpsons† | Gaussian | NA | NA | NA | R2 |
| UM2 pitfall traps | Araneae | Total abundance | Distance\*Habitat type, Plot | Poisson | AER | 1 | NA | R2D, γ |
| Species richness | Poisson | AER | 1 | NA | R2D, γ |
| Inverse Simpsons† | Gaussian | NA | NA | Log | R2 |
| Hymenoptera | Total abundance | Quasi-poisson | AER | 11.9 | NA | R2D, Dγ |
| Species richness | Poisson | AER | 1 | NA | R2D, γ |
| Inverse Simpsons† | Gaussian | NA | NA | NA | R2 |
| UM2 dummy caterpillars | Caterpillar attack (number attacked, number not attacked) | | Distance\*Habitat type, Plot | Quasi-binomial | Bolker | 6.89 | NA | R2D, Dγ |
| †For data with a Simpsons Diversity Index of 0 (due to only one species being present), the inverse Simpsons is infinity (undefined). Therefore, these values were replaced with NAs for the analysis.  ††Dispersion parameter for re-analysis with outlier removed, see Supplementary Table 3. | | | | | | | | | |