|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **On-farm Practice for Conservation** | **Fruits and Nuts** | | | | | | | | | **Vegetables and Melons** | | | | | | | | |
| **N** | **Effect of Organic Status** | | | | **Effect of Farm Size** | | | | **N** | **Effect of Organic Status** | | | | **Effect of Farm Size** | | | |
| **β** | **χ2** | ***P*** | ***P\**** | **β** | **χ2** | ***P*** | ***P\**** | **β** | **χ2** | ***P*** | ***P\**** | **β** | **χ2** | ***P*** | ***P\**** |
| Bird nest boxes | 300 | 0.53 | 3.61 | 0.06 | 0.18 | 0.38 | 2.58 | 0.11 | 0.26 | 74 | 0.71 | 1.40 | 0.24 | 0.43 | -0.14 | 0.04 | 0.84 | 0.91 |
| Constructed wetland | 286 | 0.13 | 0.06 | 0.80 | 0.91 | 0.55 | 1.37 | 0.24 | 0.43 | 72 | - | - | - | - | - | - | - | - |
| Release of biocontrol agents | 293 | 0.82 | 6.80 | **<0.01** | **0.04** | 1.30 | 23.40 | **<0.01** | **<0.01** | 75 | 1.61 | 8.68 | **<0.01** | **0.02** | 1.31 | 4.42 | **0.04** | 0.13 |
| Native bee nest boxes | 288 | 0.74 | 4.42 | **0.04** | 0.13 | -0.13 | 0.15 | 0.70 | 0.85 | 75 | 1.15 | 2.99 | 0.08 | 0.23 | -1.72 | 6.91 | **0.01** | **0.04** |
| Beetle banks | 280 | - | - | - | - | - | - | - | - | 73 | - | - | - | - | - | - | - | - |
| Integrated Pest Management (IPM) | 305 | -0.01 | 0.00 | 0.99 | 0.99 | 1.13 | 17.72 | **<0.01** | **<0.01** | 80 | 1.58 | 3.62 | 0.06 | 0.18 | 2.70 | 13.99 | **<0.01** | **<0.01** |
| Flower or native plant strips to attract natural pest predators | 289 | 1.28 | 17.56 | **<0.01** | **<0.01** | 0.24 | 0.75 | 0.39 | 0.57 | 75 | 1.97 | 13.84 | **<0.01** | **<0.01** | -0.60 | 1.13 | 0.29 | 0.48 |
| Flower or native plant strips for native pollinators | 291 | 1.23 | 16.12 | **<0.01** | **<0.01** | 0.32 | 1.45 | 0.23 | 0.43 | 74 | 1.50 | 7.42 | **0.01** | **0.04** | -1.50 | 7.42 | **0.01** | **0.04** |
| Hedgerow or windbreak | 293 | 0.51 | 2.63 | 0.11 | 0.25 | 0.52 | 3.57 | 0.06 | 0.18 | 73 | 1.08 | 4.11 | 0.04 | 0.15 | 0.13 | 0.05 | 0.83 | 0.91 |
| Grassed waterways or roads | 290 | 0.44 | 1.88 | 0.17 | 0.35 | 0.28 | 0.94 | 0.33 | 0.53 | 74 | -0.26 | 0.16 | 0.69 | 0.85 | -0.44 | 0.48 | 0.49 | 0.66 |
| Riparian/stream bank restoration | 286 | -0.20 | 0.27 | 0.61 | 0.76 | 0.52 | 2.72 | 0.10 | 0.25 | 74 | -0.14 | 0.04 | 0.83 | 0.91 | -0.58 | 0.78 | 0.38 | 0.57 |
| Sediment or stormwater basin | 290 | 0.27 | 0.68 | 0.41 | 0.60 | 0.98 | 11.91 | **<0.01** | **0.01** | 74 | 0.51 | 0.84 | 0.36 | 0.56 | 2.06 | 11.56 | **<0.01** | **0.01** |
| Tailwater recovery ponds | 285 | -0.08 | 0.05 | 0.83 | 0.91 | 1.07 | 10.89 | **<0.01** | **0.01** | 74 | 0.12 | 0.05 | 0.83 | 0.91 | 2.22 | 11.55 | **<0.01** | **0.01** |
| Vegetated filter or buffer strips | 285 | 0.54 | 2.86 | 0.09 | 0.23 | 0.51 | 3.34 | 0.07 | 0.21 | 74 | -0.67 | 1.53 | 0.22 | 0.41 | 0.37 | 0.44 | 0.51 | 0.67 |
| Vegetated treatment system | 281 | 0.76 | 2.12 | 0.15 | 0.31 | -0.08 | 0.03 | 0.87 | 0.94 | 73 | - | - | - | - | - | - | - | - |
| No-till agriculture | 298 | -0.29 | 1.05 | 0.31 | 0.50 | 0.41 | 3.09 | 0.08 | 0.23 | 75 | 0.35 | 0.34 | 0.56 | 0.74 | -0.51 | 0.64 | 0.42 | 0.60 |
| Cover cropping | 297 | 0.96 | 10.70 | **<0.01** | **0.01** | 0.42 | 2.89 | 0.09 | 0.23 | 77 | 0.30 | 0.31 | 0.58 | 0.75 | -0.20 | 0.14 | 0.71 | 0.85 |
| Crop rotation | 290 | 1.19 | 13.17 | **<0.01** | **<0.01** | 1.43 | 24.14 | **<0.01** | **<0.01** | 78 |  |  |  |  |  |  |  |  |
| Physically heat treated soil amendments containing animal manure | 290 | 1.29 | 14.43 | **<0.01** | **<0.01** | 1.53 | 22.61 | **<0.01** | **<0.01** | 75 | 0.06 | 0.01 | 0.92 | 0.95 | 0.33 | 0.28 | 0.60 | 0.76 |
| Fully composted, not physically heat treated, soil amendments containing animal manure or animal products | 292 | 0.57 | 3.31 | 0.07 | 0.21 | 0.39 | 1.98 | 0.16 | 0.33 | 75 | 0.69 | 1.27 | 0.26 | 0.45 | -1.51 | 4.72 | 0.03 | 0.12 |
| Raw Manure, green waste or other non-composted soil amendment containing animal products | 287 | -1.28 | 3.92 | **0.05** | 0.16 | 0.43 | 0.98 | 0.32 | 0.52 | 72 | - | - | - | - | - | - | - | - |
| **Table S2.** Effects of organic/conventional status and farm size on the likelihood of using conservation practices on farm. For rows in which model parameters are not reported, either too few growers reported using the practice (e.g. beetle banks), or too few reported *not* using the practice (e.g. crop rotation), to model the effect of organic status or farm size; see Table S4. β= model coefficient; χ2= chi-square statistic from likelihood ratio test; P= raw p-value; P\*= multiple test adjusted p-value. | | | | | | | | | | | | | | | | | | |