**Supplemental Table 1-** CDC bottle bioassay results. The USDA strain was the strain used in our study, while Zone 22 and Zone 43 refer to mosquito populations collected in East Baton Rouge Parish, LA that exhibited reduced insecticide sensitivity. The USDA strain was significantly more sensitive than the locally collected strains to concentrations of insecticides that represent the low and high label application rates of Scourge (® resmethrin), Duet (® sumithrin and prallethrin) and the high label application rate of Aqua Pursuit (™ permethrin).

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Scourge 9** | **0 min** | **15 min** | **30 min** | **45 min** | **60 min** | **75 min** | **90 min** | **n** | 9 ug/ml resmethrin; 27 ug/ml PBO |
| USDA | 0% | 100% | 100% | 100% | 100% | 100% | 100% | 44 |  |
| Zone 43 | 0% | 8.30% | 50% | 91.70% | 91.70% | 100% | 100% | 12 |  |
| Zone 22 | 0% | 0% | 24% | 41% | 65% | 82.40% | 100% | 17 |  |
|  |  |  |  |  |  |  |  |  |  |
| **Scourge 1.8** | **0 min** | **15 min** | **30 min** | **45 min** | **60 min** | **75 min** | **90 min** | **n** | 1.8 ug/ml resmethrin; 5.4 ug/ml PBO |
| USDA | 0% | 100% | 100% | 100% | 100% | 100% | 100% | 49 |  |
| Zone 43 | 0% | 0% | 5% | 10% | 15% | 20% | 20% | 20 |  |
| Zone 22 | 0% | 0% | 0% | 0% | 7.10% | 14.30% | 14.30% | 14 |  |
|  |  |  |  |  |  |  |  |  |  |
| **Duet 11** | **0 min** | **15 min** | **30 min** | **45 min** | **60 min** | **75 min** | **90 min** | **n** | 11 ug/ml sumithrin and PBO; 2.5 ug/ml prallethrin |
| USDA | 0% | 100% | 100% | 100% | 100% | 100% | 100% | 41 |  |
| Zone 43 | 0% | 11.10% | 50% | 55.60% | 72.20% | 83.30% | 88.90% | 18 |  |
| Zone 22 | 0% | 5.00% | 35% | 60% | 83% | 95% | 95% | 20 |  |
|  |  |  |  |  |  |  |  |  |  |
| **Duet 2.2** | **0 min** | **15 min** | **30 min** | **45 min** | **60 min** | **75 min** | **90 min** | **n** | 2.2 ug/ml sumithrin and PBO; .5 ug/ml prallethrin |
| USDA | 0% | 14.30% | 46.40% | 96.40% | 100% | 100% | 100% | 28 |  |
| Zone 43 | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 19 |  |
| Zone 22 | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 16 |  |
|  |  |  |  |  |  |  |  |  |  |
| **AquaPursuit 22** | **0 min** | **15 min** | **30 min** | **45 min** | **60 min** | **75 min** | **90 min** | **n** | 22 ug/ml of permethrin and PBO |
| USDA | 0% | 100% | 100% | 100% | 100% | 100% | 100% | 35 |  |
| Zone 43 | 0% | 0% | 5.90% | 23.50% | 29.40% | 29.40% | 35.30% | 17 |  |
| Zone 22 | 0% | 0% | 6.30% | 12.50% | 18.80% | 25% | 31.30% | 16 |  |