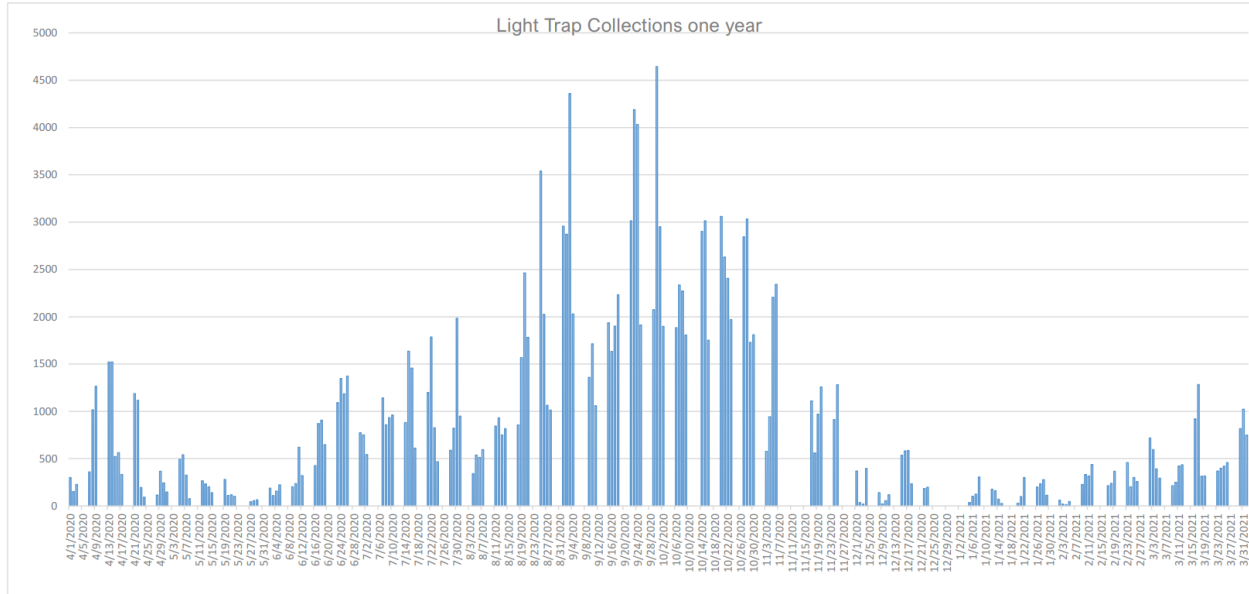


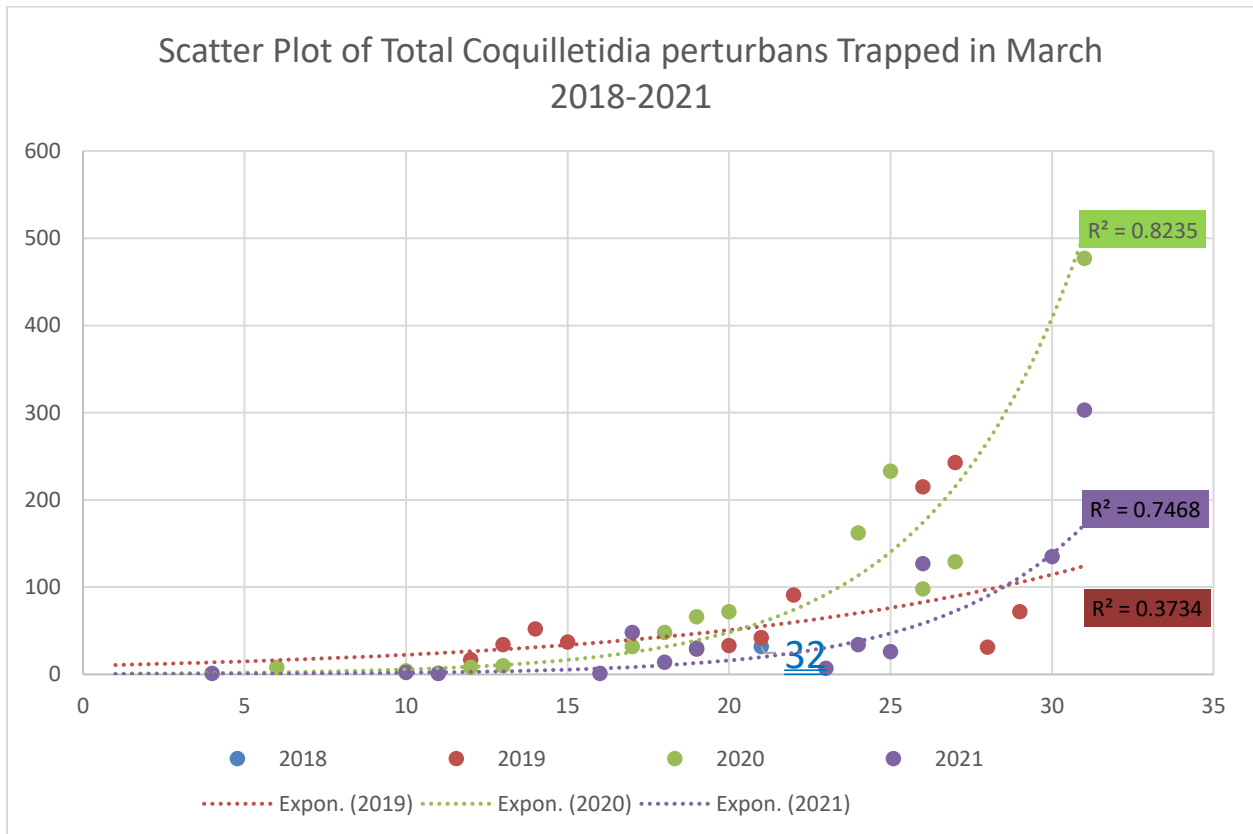
Week of 3/29/2021 Operations Update

The population of mosquitoes increased significantly this week compared to last week due to the emergence of *Coquillettidia perturbans*. The bar graph below shows the total adult mosquitoes from all traps in the District for the past year (TTM).



Every Spring, whether it rains or not, brings the emergence of *Coquillettidia perturbans*. This species of mosquito is an aggressive biter and has a flight range of five miles. They lay their eggs in shallow lakes and ponds with emergent vegetation, usually cattails. The vegetation is important because this species is capable of piercing the plant's tissues for an oxygen source, essentially using it as a snorkel. This adaptation allows them to evade predation by fish and overwinter as larvae. Once the weather warms, they continue their life cycle to pupae and then adults. This species is also the primary "bridge vector" for Eastern Equine Encephalitis.

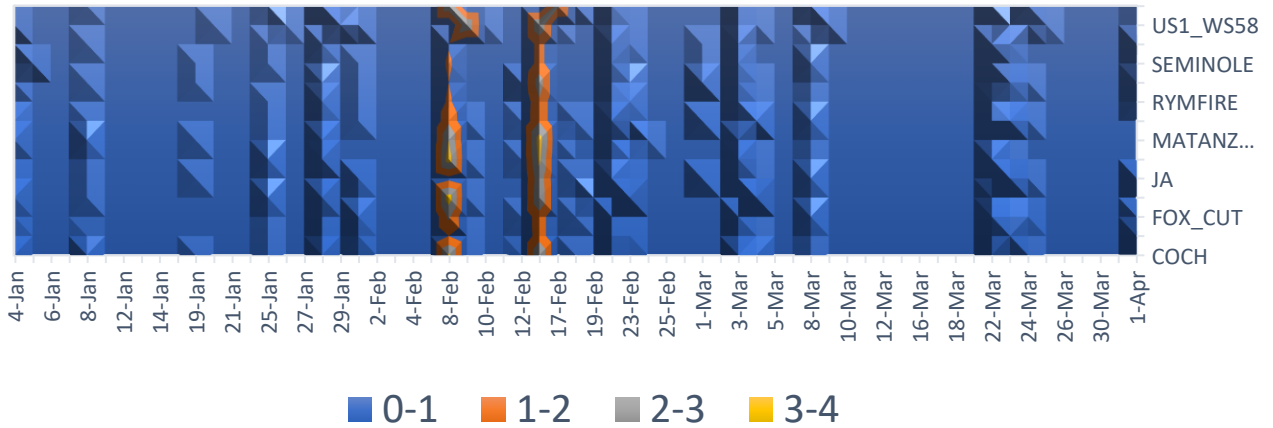
The degree of emergence of adults of this species can vary depending on the year. The graph below you can see individual data points for the total count of this species trapped in the District each day. The smooth curved lines are exponential regression lines to help illustrate the trend in growth.



In 2018 we had very few mosquitoes of this species as represented by the single point with the total trap count of 32 beside the data point. In 2018 many areas that this species uses for breeding dried down completely and in 2019 the population was still reduced because of this. Last year, 2020, was very productive and this year has been moderate so far.

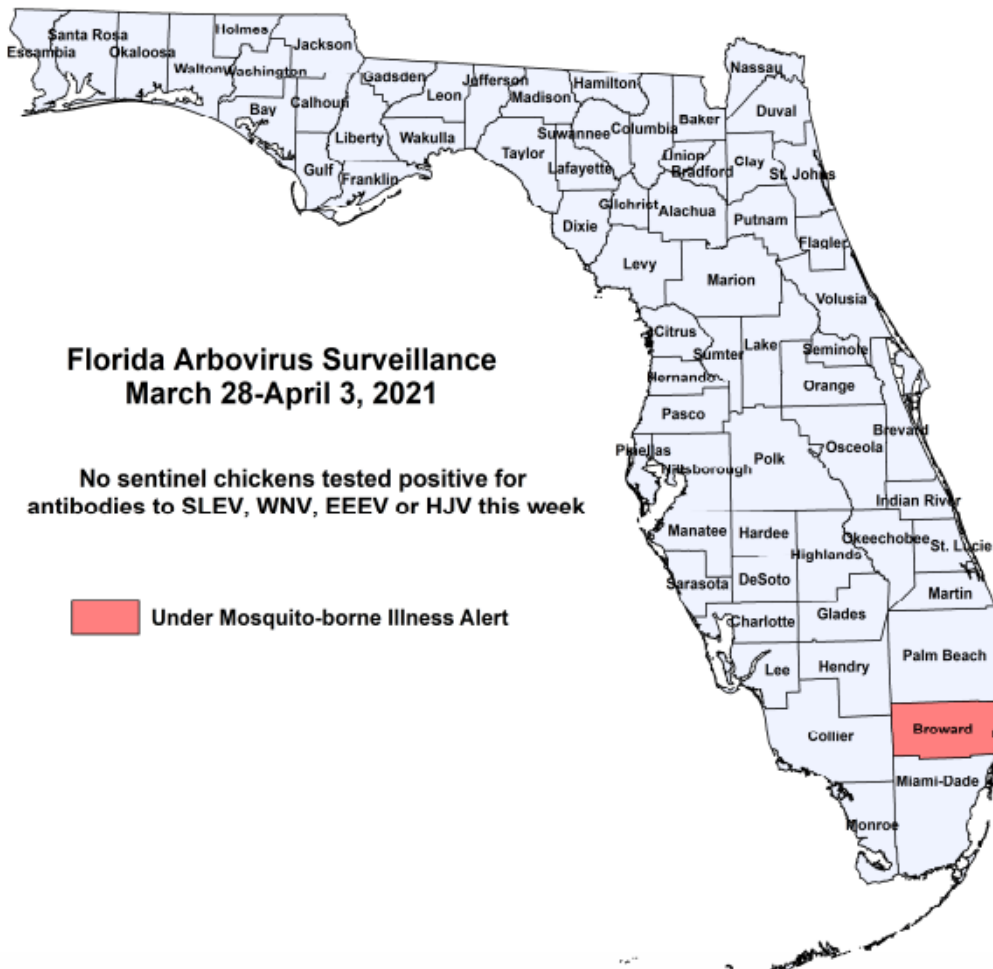
There has been very little rainfall to date this year. The graph below shows the daily rain total at each monitoring site located in the District. The last significant rain was in the first half of February.

Rain Totals by site YTD 2021



From the Florida Department of Health Arbovirus Surveillance Week 13: March 28-April 3, 2021 [Report](#):

- Broward County is currently under a mosquito-borne illness alert.



Zones in yellow were treated by truck.

