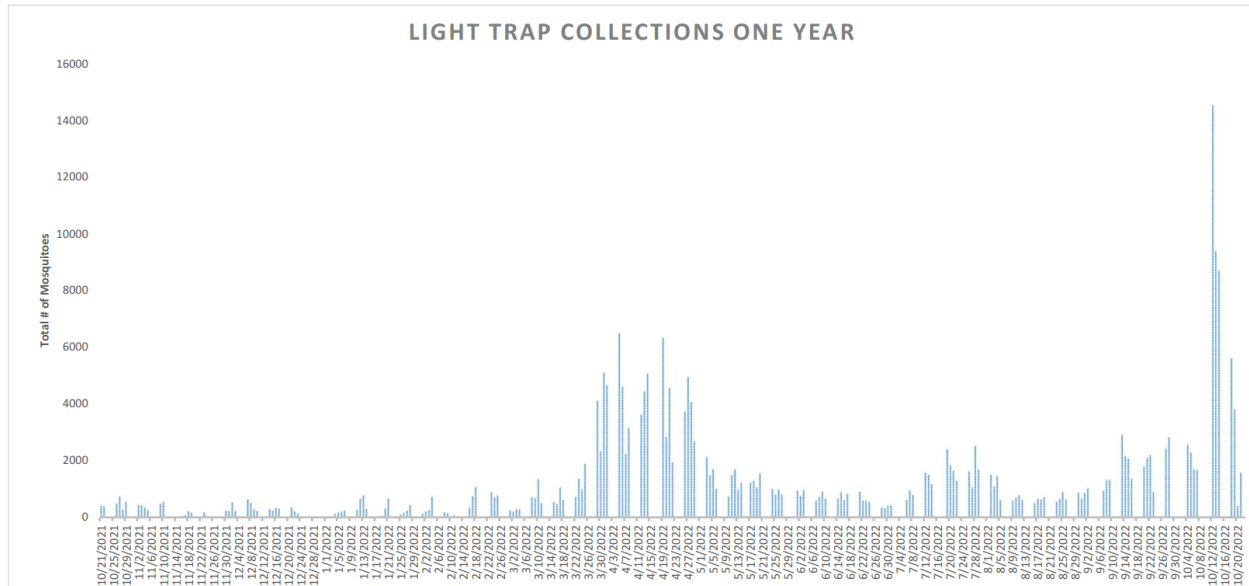


## Week of 10/17/2022 Operations Update

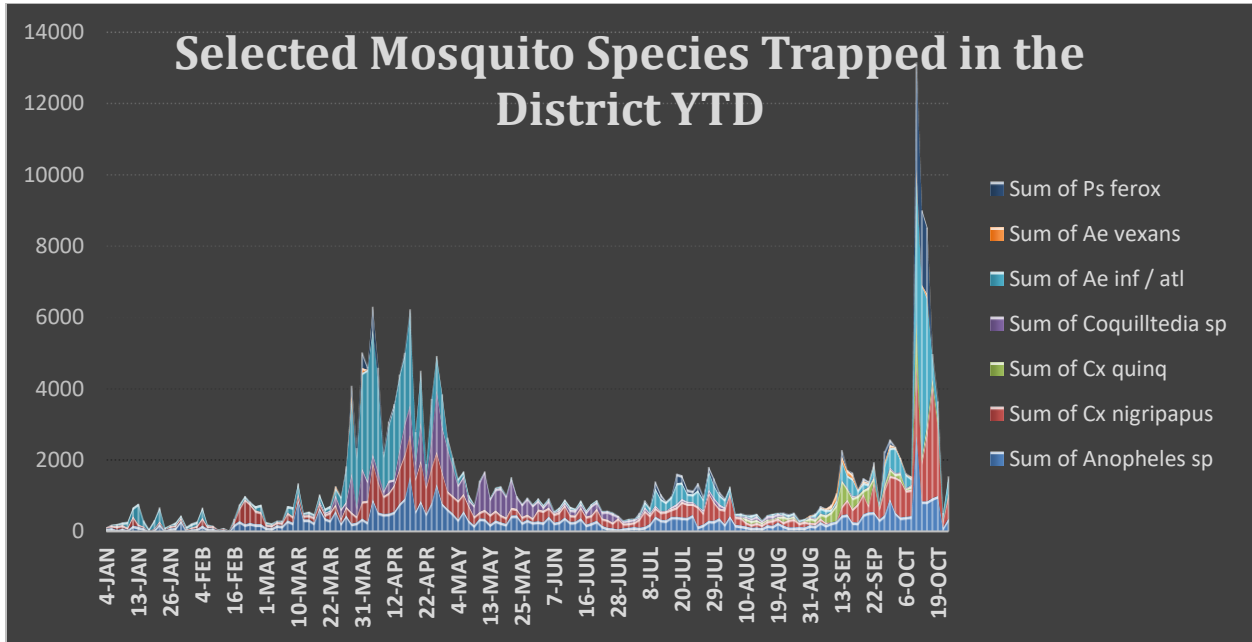
This week saw low temperatures with intermittent aerial spraying conducted by contractors working for the Florida Department of Agriculture as part of the FEMA post Hurricane Ian response. The bar graph below shows the total adult mosquitoes from all traps in the District for the past year (TTM).



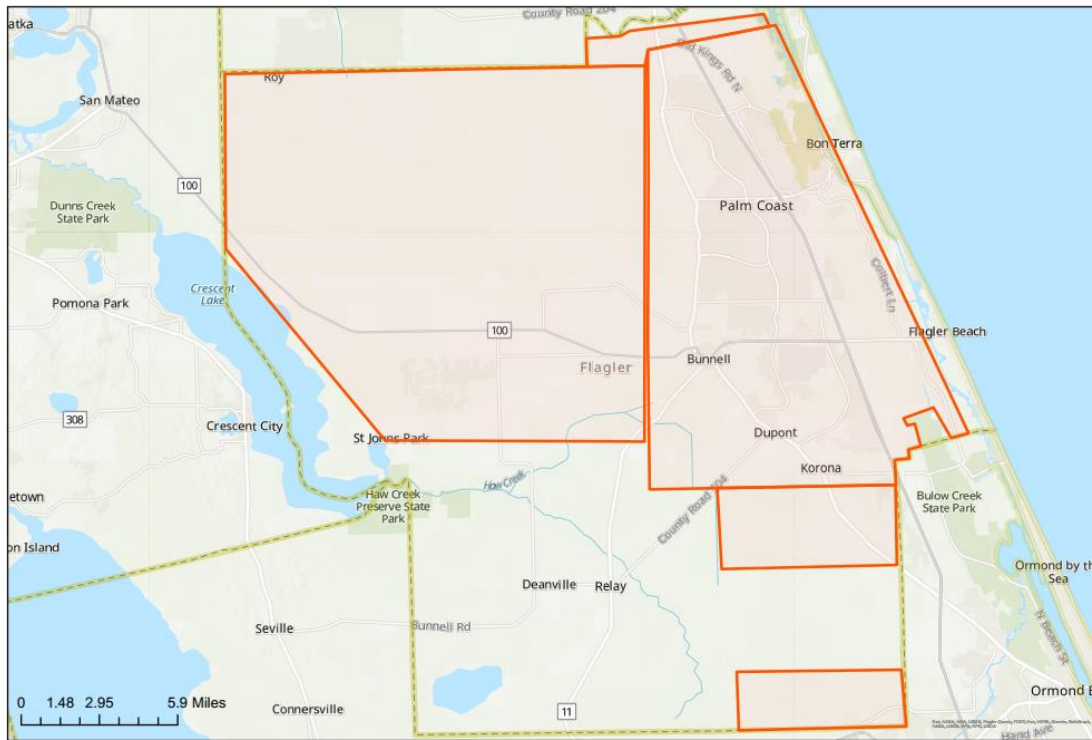
A surveillance flight conducted on Saturday morning October 1 observed wide-spread flooding in the saltmarsh and undeveloped areas west of the District. All monitoring of environmental factor indicates the severity of the flooding (see [Hurricane Ian supplemental Report](#)). Cooler temperatures following the tropical cyclone delayed the emergence of flood water mosquitoes beyond the normal seven-day incubation period. By 12 days post-event the mosquitoes caused by the flooding were registered in our traps. This was an extreme event, emergency procedures were instituted immediately and State resources were deployed via contracted spray planes to treat wide areas of Flagler County.

- Aerial spraying was completed Sunday night 10/23/2022 – a single plane operated out of the Flagler Executive Airport due to a shortage of pesticide. The District was able to resupply the contractor from our inventory to complete the mission.
- Friday night 10/21/2022 – two planes operating out of New Smyrna Airport treated Rima Ridge and Hunters Ridge, started the eastern Block, and finished the western block.
- Tuesday night October 10/18/2022 – Western block was partially treated, two planes operating out of New Smyrna Airport worked in tandem but were unable to complete the block due to low temperatures

The graph below shows the impact of the cold temperatures on mosquito activity, dropping a peak of 13,000 mosquitoes trapped daily to just 500 total as low temperatures pushed mosquitoes into diapause, a state of reduced activity to survive cold weather. The last day of trap data available this week does not illustrate the impact of treatments as the data is from within the District only, in areas not treated at the time.



Spray blocks treated by contractors working for the Florida Department of Agriculture as part of the FEMA post Hurricane Ian response.



Flagler County  
213,682 **Proposed** Aerial Acres

