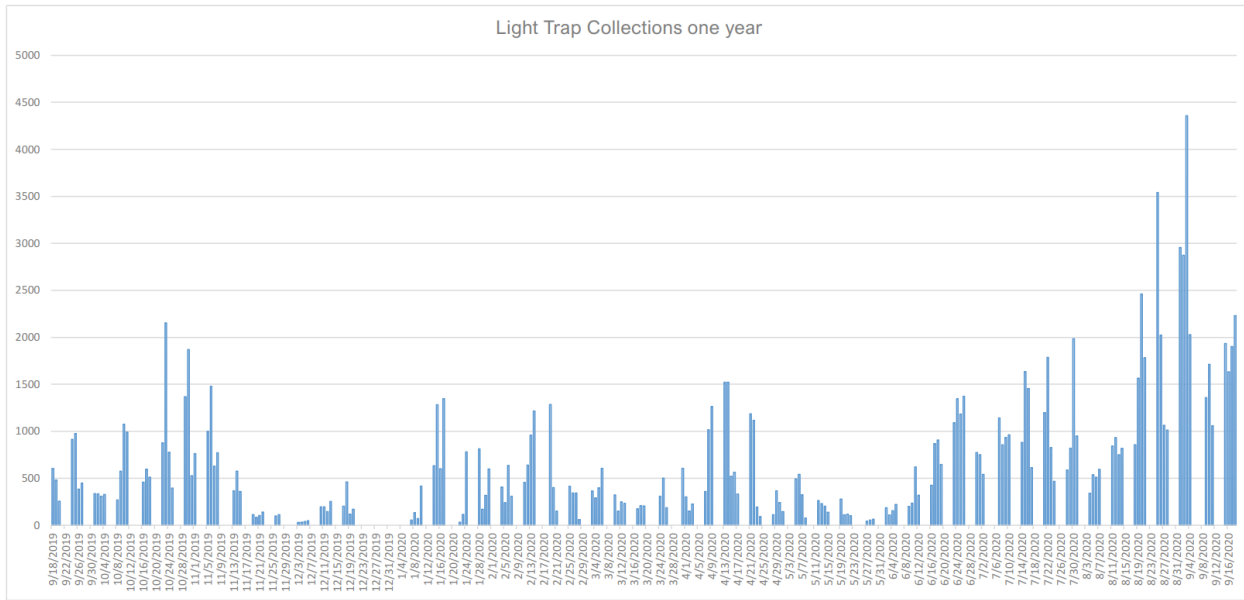
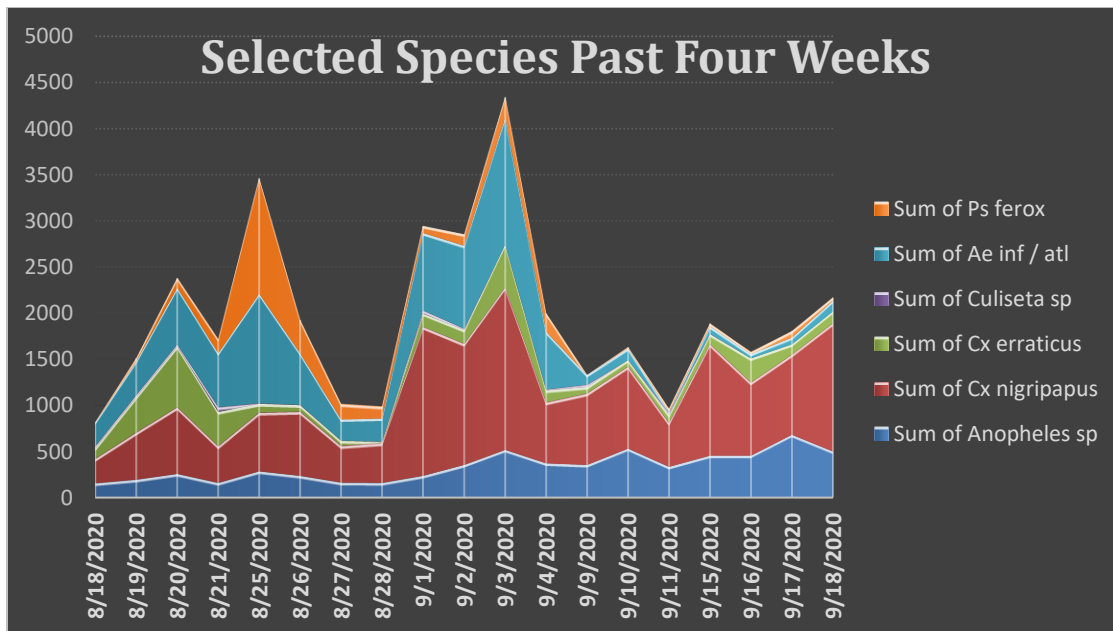


## Week of 9/14/2020 Operations Update

A more moderate mosquito population this week, only the permanent water species remain abundant. The bar graph below shows the total adult mosquitoes from all traps in the District for the past year (TTM).



This is the second week in a row with a low population of flood-water species *Aedes infirmatus* and *Psorophora ferox* (Chart below). Several permanent water species, *Culex nigripalpus* and *Culex erraticus* as well as *Anopheles spp* remain at high levels and are likely to continue to replenish themselves as long as the rains continue.

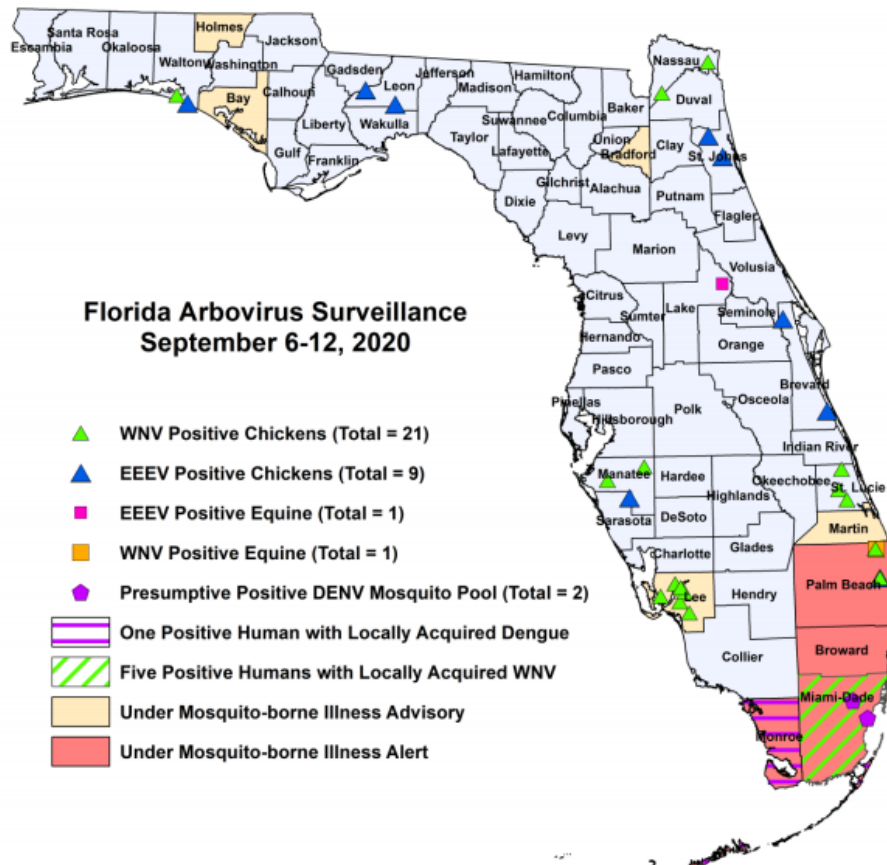


*Culex nigripalpus* is an important vector of WNV. This virus has been prevalent in South Florida Counties this year, as well as other parts of the Country from New York to California.

The virus is understood to spread from infected migratory birds being fed on by mosquitoes as they move between Northern and Southern climates. Once the local mosquito population is infected, it can then spread the virus to humans and other mammals. Movement of the virus is limited to the migratory birds because *Culex nigripalpus* has a short flight range, and mammals are “dead-end hosts” for the virus meaning after infection occurs the virus does not replicate enough to further infect other mosquitoes.

From the Florida Department of Health in their Florida Arbovirus Surveillance Week 37: September 6-12, 2020 Report: [here](#)

- Five human cases of WNV infection were reported this week in Miami-Dade County.
- One case of locally acquired dengue fever was reported in Monroe County this week.
- Broward
  - WNV: 3 humans (July), 1 asymptomatic blood donor (August)
- Miami-Dade
  - WNV: 21 humans (June, July, August), 33 asymptomatic blood donors (May, June, July, August)
  - Dengue: 1 human (March)
- Monroe
  - Dengue: 55 humans (February, April, May, June, July, August)
- Four Counties in South-East Florida are under a mosquito-borne illness alert.



Zones in yellow treated by truck, blocks in blue treated by helicopter.

