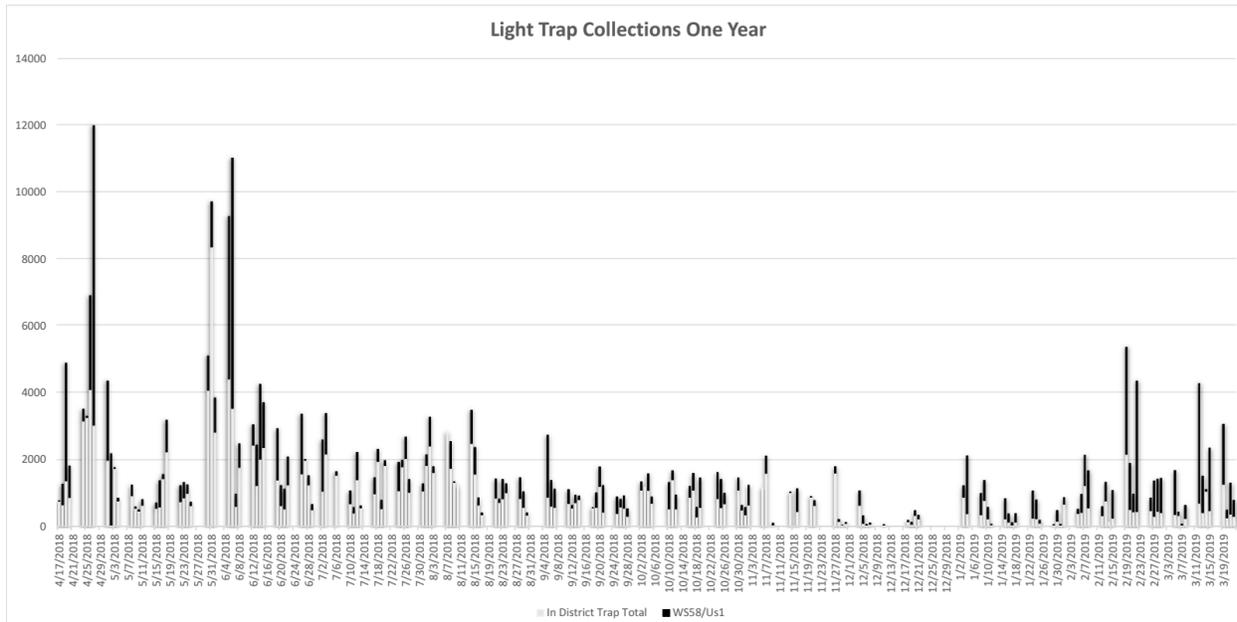


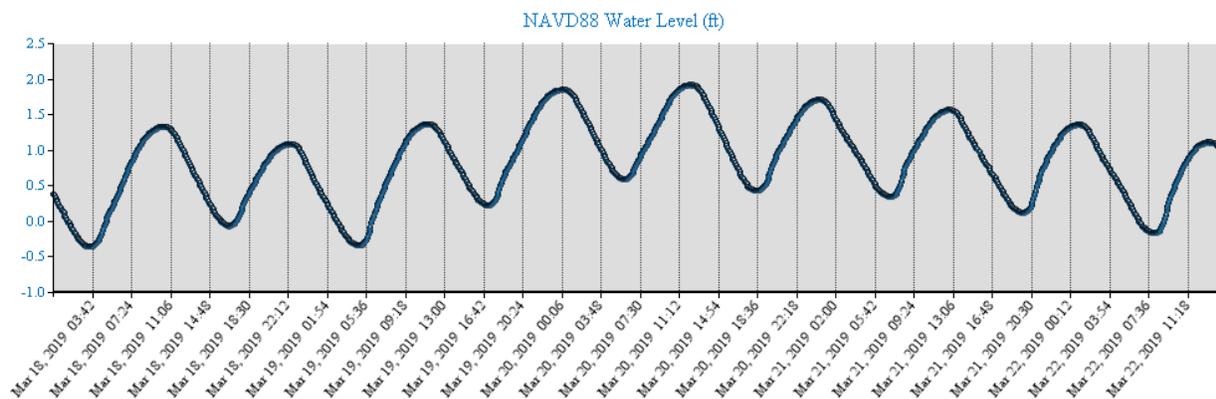
Week of 3/18/2019 Operations Update

Mosquito populations have been consistently low since September. The stacked-bar graph below shows the total mosquitoes from all traps in the District in white the black is the sole trap we keep on the West-side of US-1 to monitor outside the District.



After a warmer and wetter than usual Winter, March has been dryer than normal and unseasonably warm. Conditions around the District due to a lack of rain have mostly been in a dry-down phase.

However, a high tide corresponding to the lunar perigee on March 19 produced tidal elevations around two feet which caused areas of the high-salt-marsh to become inundated.



A subsequent aerial reconnaissance mission on Friday the 22nd found no breeding at this time.

Accompanying us on Friday's surveillance flight was Ernie Sund, Commissioner for the Town of Beverly Beach. The District requested each municipality designate an elected official to accompany us on a surveillance flight. We appreciated Ernie's time and interest and look forward to meeting everyone else.

Every Spring, whether it rains or not, brings the emergence of *Coquilletidia peturbans*. These mosquitoes are aggressive biters and have a flight range of five miles. They lay their eggs in water with 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 and overwinter as larvae. Once the weather warms they continue the life cycle to pupae and adults.

We're seeing a good population of adults of this species developing at this time and it will become more abundant and active in the days and weeks ahead as the weather stays consistently warm. This species is also the primary "bridge vector" for Eastern Equine Encephalitis. We have already had a confirmed case of EEE in an emu outside the District. We will continue our routine surveillance of breeding sites and trapping of adults so that as soon as nighttime temperatures permit, we can begin treatments in earnest both in and outside the District per our agreement with the County.