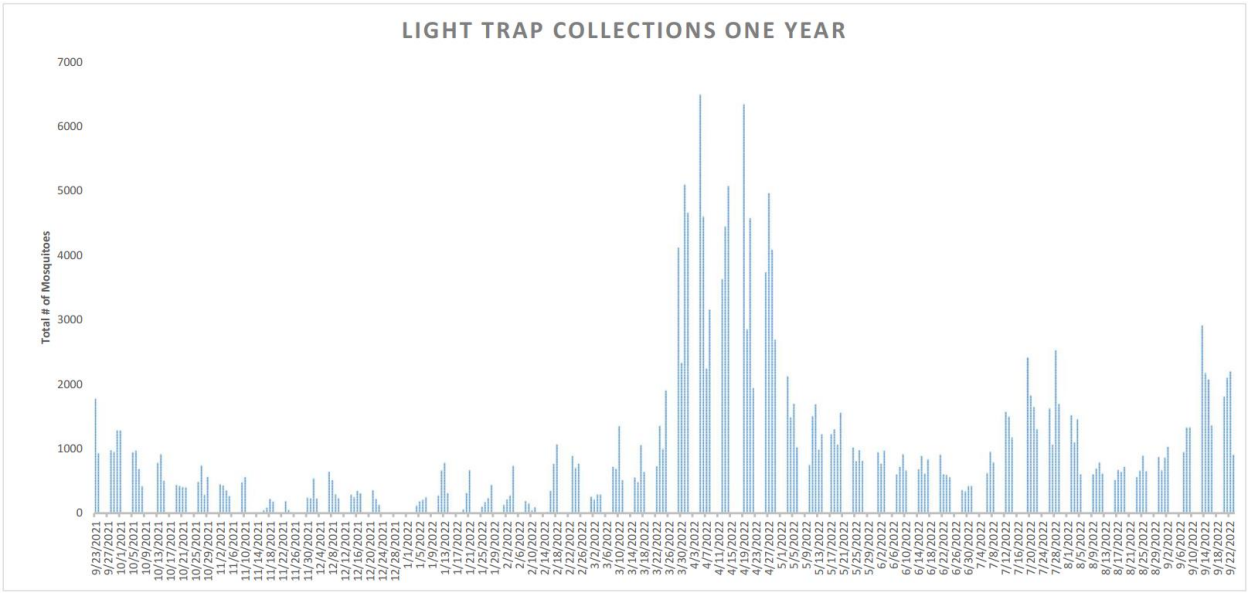
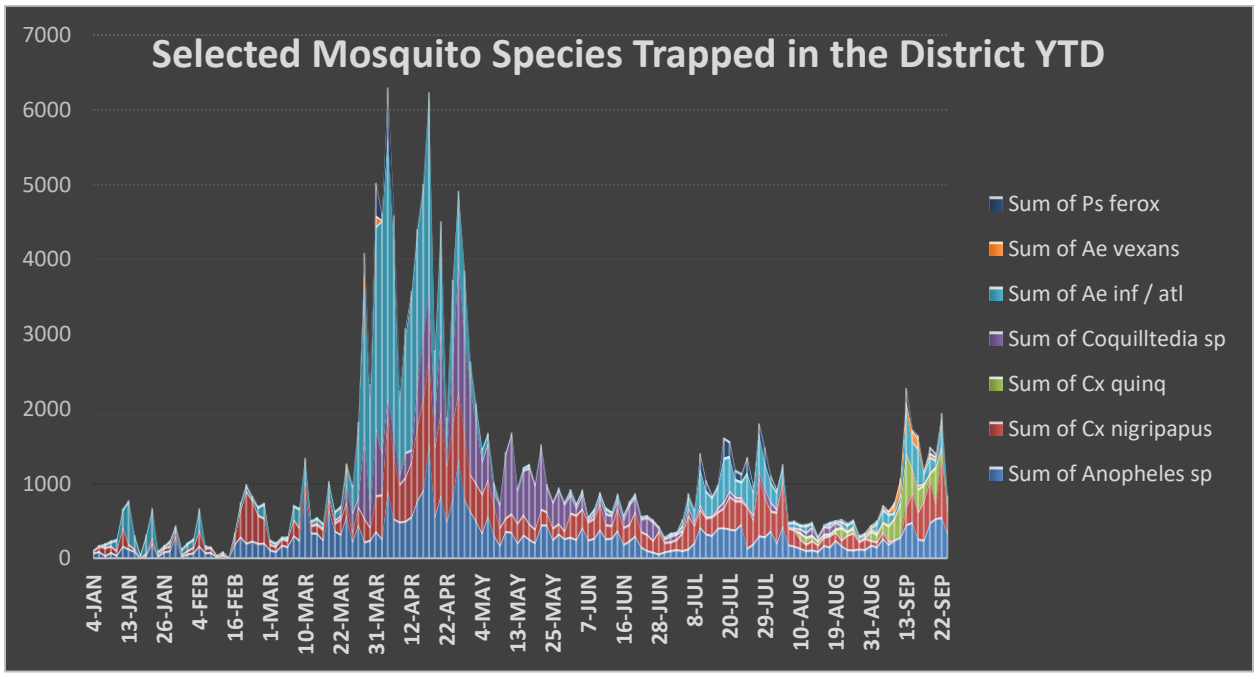
Week of 9/19/2022 Operations Update

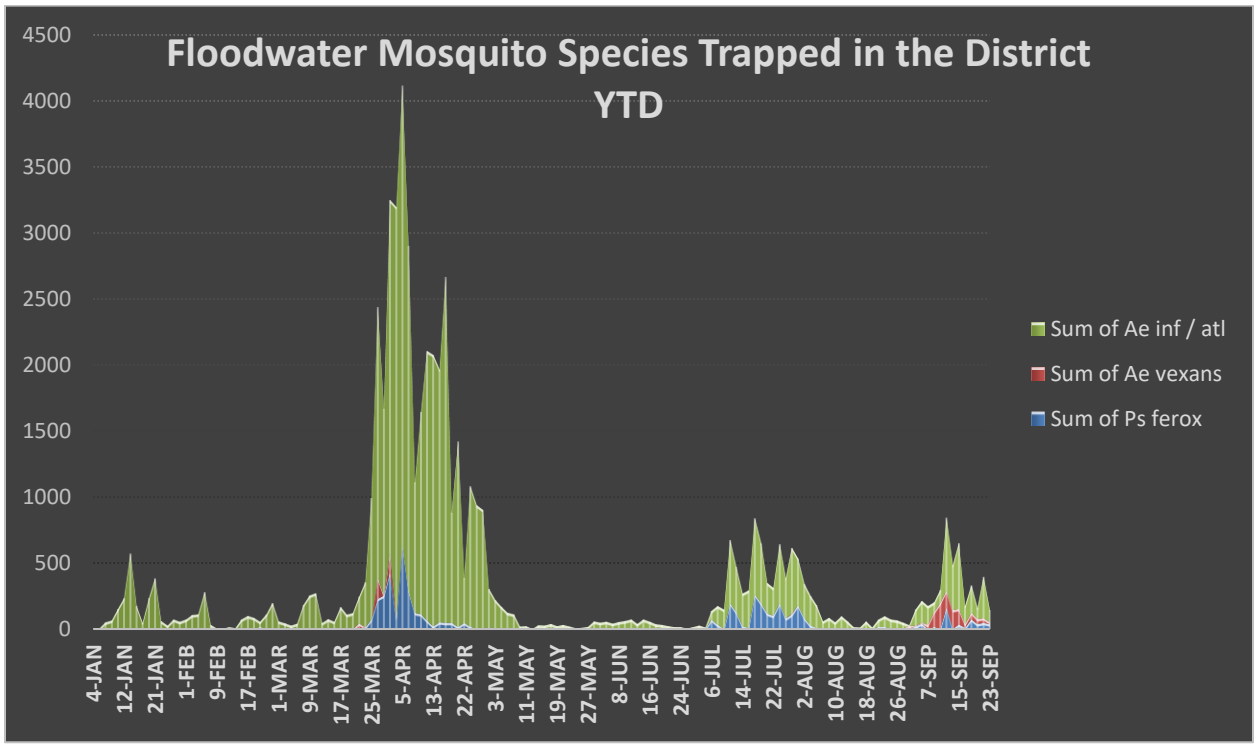
Another moderate week of mosquito activity but with no increase and a decline by week's end. The bar graph below shows the total adult mosquitoes from all traps in the District for the past year (TTM).



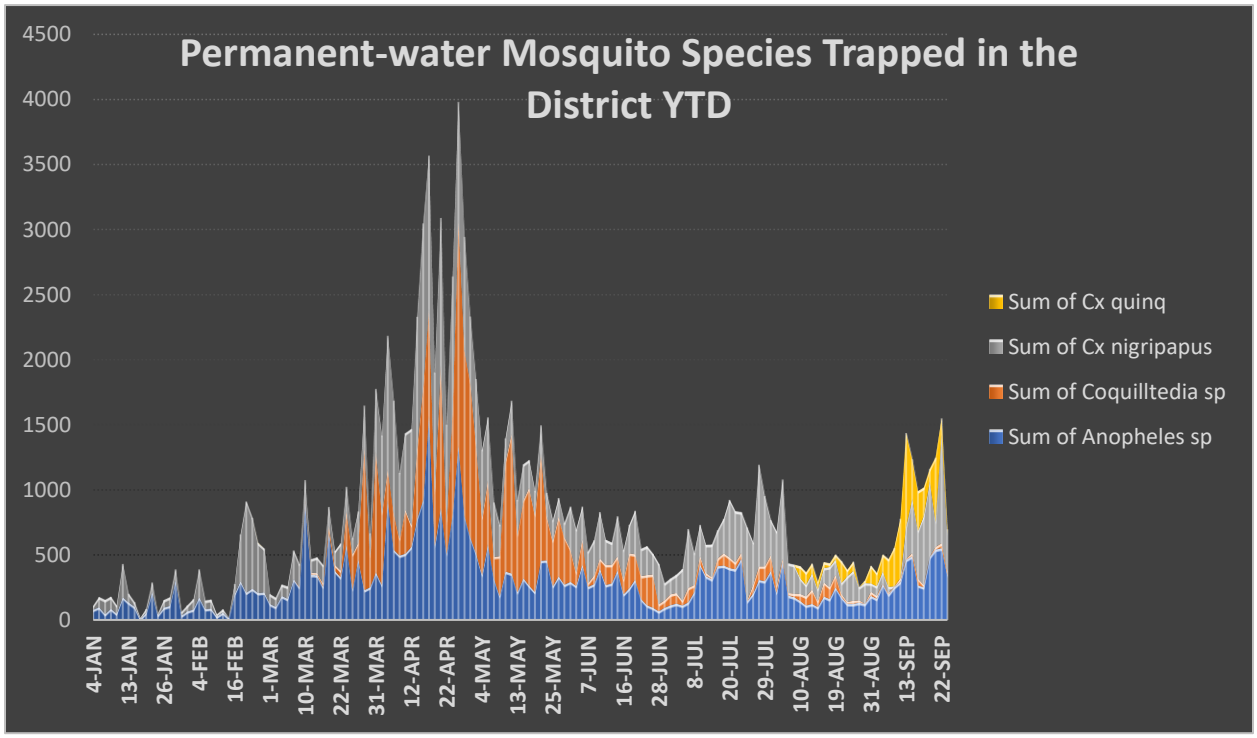
Continuing the theme from last week we noted, "the addition of *Culex quinquefaciatus* this week and last in the trap collections made it so the bulk of the adult mosquitoes trapped were of the permanent water variety. *Aedes infirmatus* and *Aedes vexans,* which are flood water mosquitoes, were at elevated numbers as well but only mildly so." The chart below represents both floodwater and permanent water types of mosquitoes.



Looking at just the population of floodwater type mosquito species you can see we have not had a major spike since April of this year (Chart below).



Whereas permanent-water species are currently on the rise and have stayed more consistent throughout the year.



The main factor for the difference in prevalence among floodwater and permanent water mosquito types appears to be that the high heat during the summer prevented flood water from remaining long enough to permit a breeding cycle to occur, whereas enough rain was received to maintain standing water without drying down. Drying down permanently wet areas is a higher bar to clear because the water is deeper in these areas and is less prone to percolation by being closer to the water table.

Zones high-lighted in yellow were sprayed by truck this week.