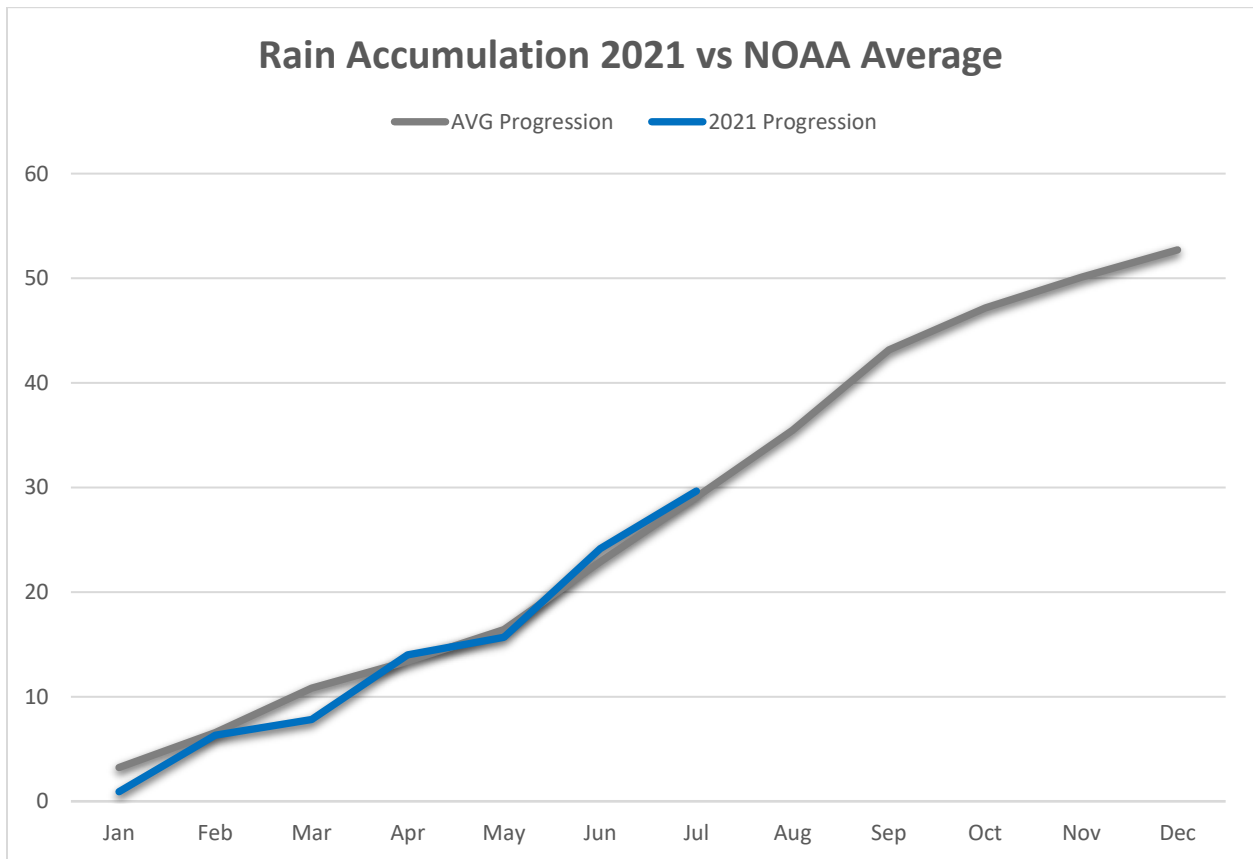


Week of 7/26/2021 Operations Update

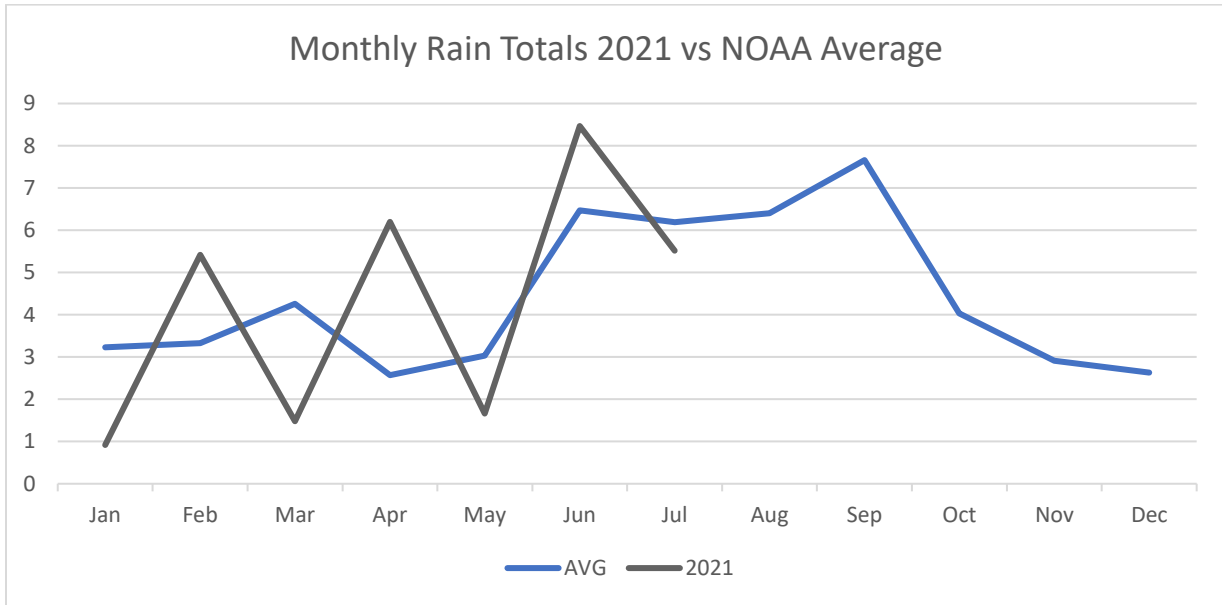
Rain Analysis Supplemental

To gauge how the monthly rainfall totals compare to a normal year, we make use of the 1981-2010 Climate Normals, which are NOAA's latest three-decade averages of climatological variables. Found here <http://www.ncdc.noaa.gov/cdo-web/datatools/normals>. Data was utilized for the Palm Coast 6 NE station.

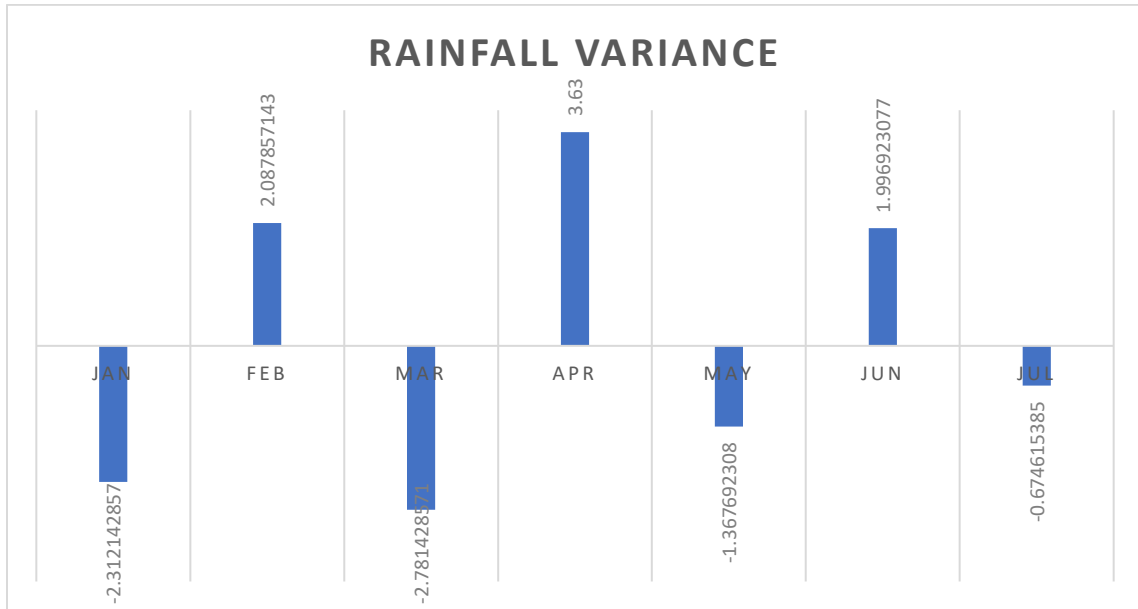
Plotting the normal rainfall accumulation from NOAA against the average rainfall accumulation recorded in the District, you can see 2021 is roughly on track to be close to a normal year (graph below).



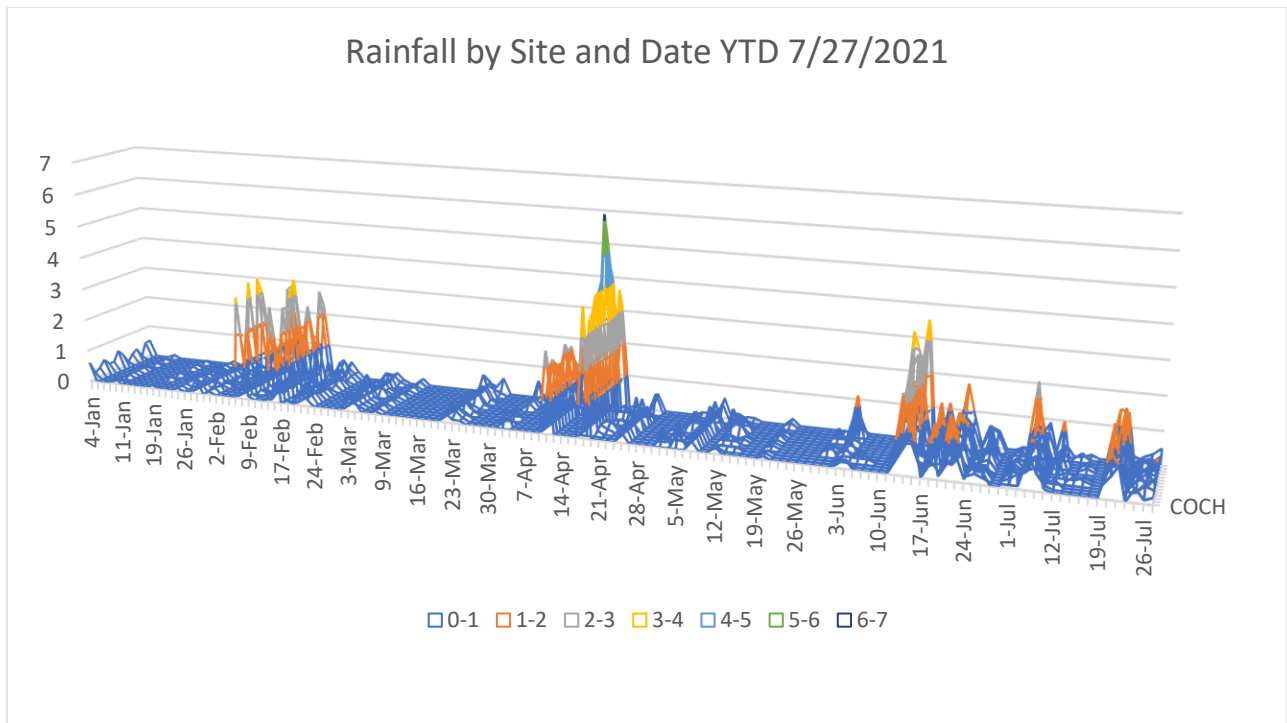
However, when you compare the data on a month-by-month basis, a very different situation is revealed with rainfall amounts varying widely this year from the normal year (graph below).



The variance from a typical rainfall pattern has alternating deficit and surplus, which makes the yearly accumulation appear more normal.



Looking at the rainfall data by date and location shows the rainfall is occurring in distinct events rather than spread throughout the month.



Alternating wet and dry cycles are ideal for the production of floodwater mosquitoes which hatch in flooded waters and return to lay their eggs after having blood-fed to lay their eggs in dry soil in order to repeat the process.