



NWS Wilmington, Ohio August 2018 Regional Climate Summary

Regional Climate Summary

The month of August 2018 was mostly characterized by persistent warm, humid, and relatively stormy conditions across the Ohio Valley, especially for the first three weeks of the month. A brief, fall-like cold front disrupted this pattern on the 22nd through 24th, but this short reprieve from the heat ended late in the month as above normal temperatures returned. Although widespread severe weather did not occur during the month, days with more isolated severe weather occurred. A few of the reports during the month included a 76 mph wind gust at Cincinnati Municipal Airport -Lunken Field on the 4th that was produced by a collapsing thunderstorm on Cincinnati's east side and impacted a rather small area near the airport, baseball sized hail around Batesville, Indiana on the 25th, and damaged hangers at the Pickaway County Airport on the 26th due to winds from a thunderstorm.

Temperatures

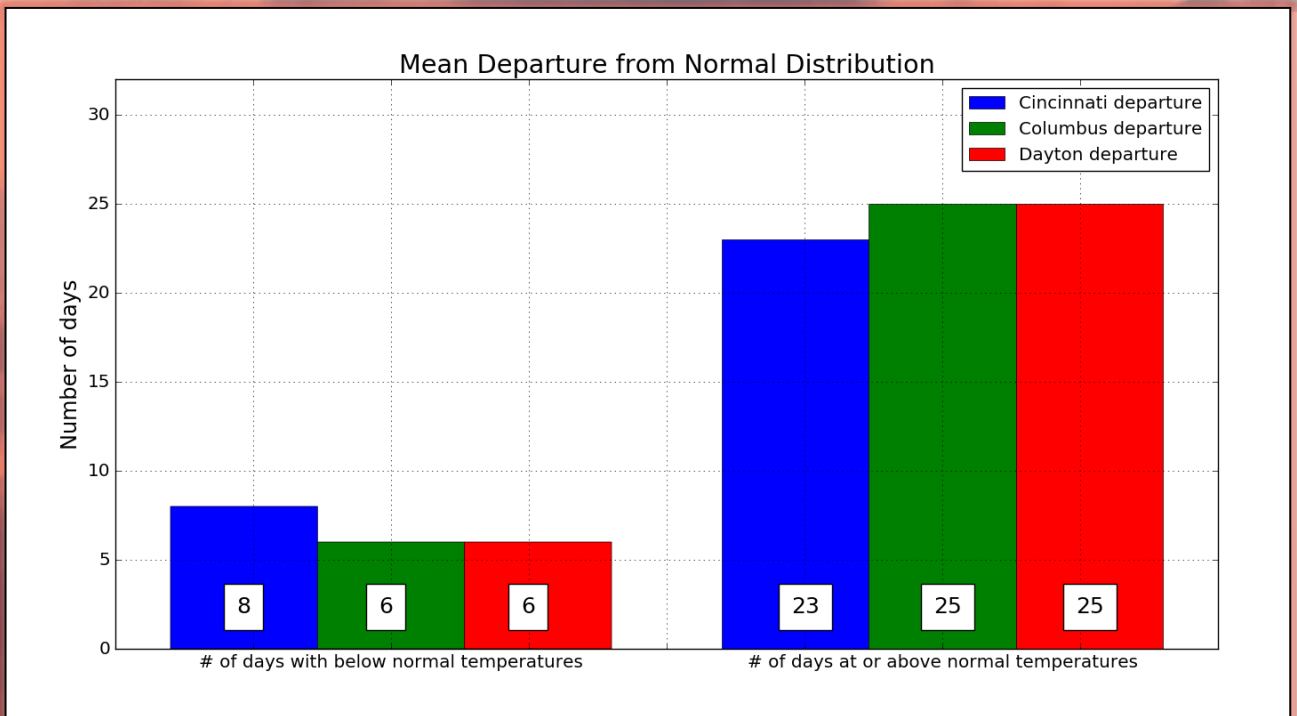
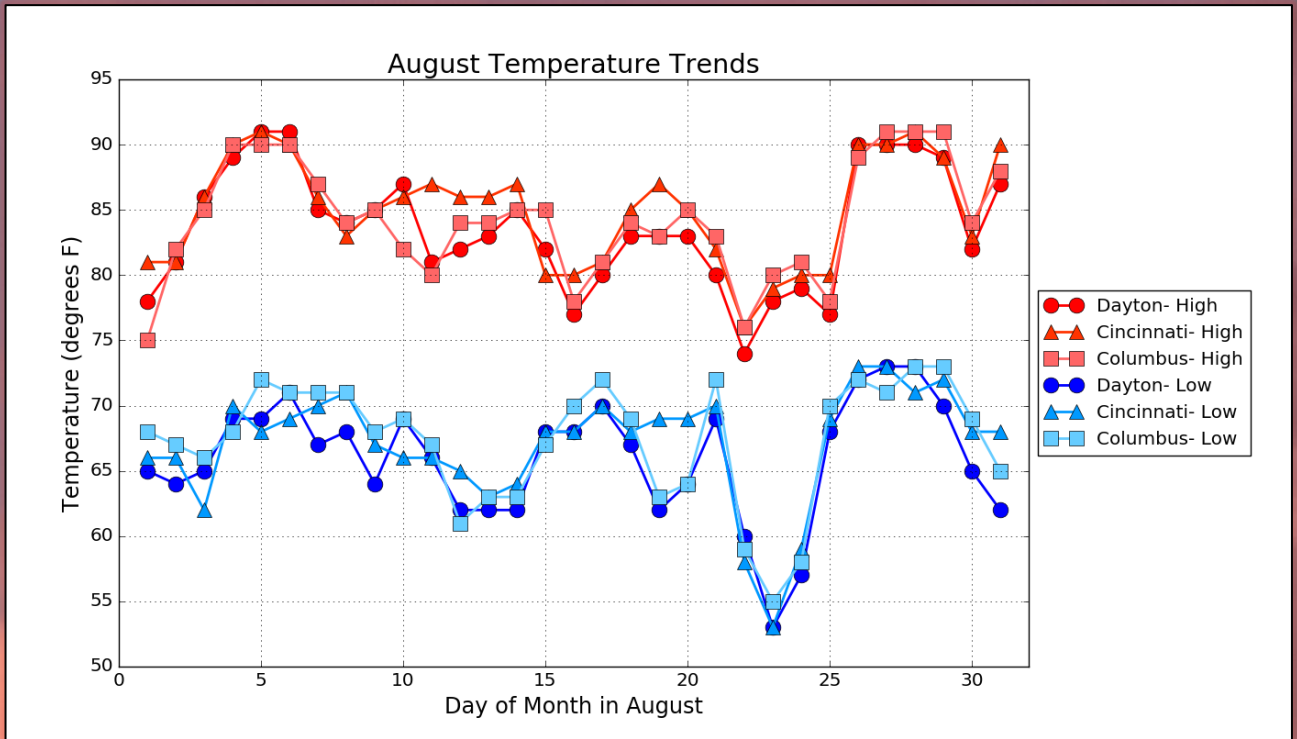
With the unsettled, rainy weather pattern for the first three weeks of the month, the temperatures were held in check, as temperatures only reached 90°F 2-3 times between the 1st and the 24th at the three main climate sites. In fact, low temperatures even dropped to the low-mid 50s behind the pattern-changing cold front on the 22nd through 24th. As an upper-level ridge build into the region late in the month, temperatures rose above normal starting on the 25th. Above normal temperatures continued for the remainder of the month with multiple 90°F days. In addition, multiple record high minimum records were tied or broken.

At Columbus a record high minimum of 72°F on the 26th tied with the years 1906 and 1959. At Dayton a record high minimum of 72°F on the 26th tied the old record that occurred in 1932, 1936, and 1948. On the 27th a record high minimum of 73°F tied the value from 1977, and on the 28th the minimum temperature value of 73°F tied the old record (set in years 1973, 1993, and 2013) for the 28th.

Site	Avg Temp (°F)	Avg High Temp (°F)	Avg Low Temp (°F)	Departure From Normal (°F)	Maximum Temperature (°F)	Minimum Temperature (°F)
Cincinnati (CVG)	76.0	84.9	67.1	+1.2	91 on 5 th /28 th	53 on 23 rd
Columbus (CMH)	75.8	84.2	67.3	+1.9	91 on 28 th /29 th	55 on 23 rd
Dayton (DAY)	74.8	83.6	65.9	+2.1	91 on 5 th /6 th	53 on 23 rd



Temperatures (Continued)



Precipitation

The month of August began similar to how July ended: periods of active weather caused by a nearby upper level trough. Through the first three weeks of the month, isolated slow-moving thunderstorms caused heavy to flooding rains over many areas, with the “big three” climate sites all reporting above average precipitation based on a few very rainy days. In fact, on August 16th, Cincinnati reported 5.02” of rain (breaking the old record for the day of 0.93 inches set in 1879), making the 16th the wettest summer day ever for the city and the 2nd wettest day ever, just behind March 9th, 1964 when 5.21” fell.

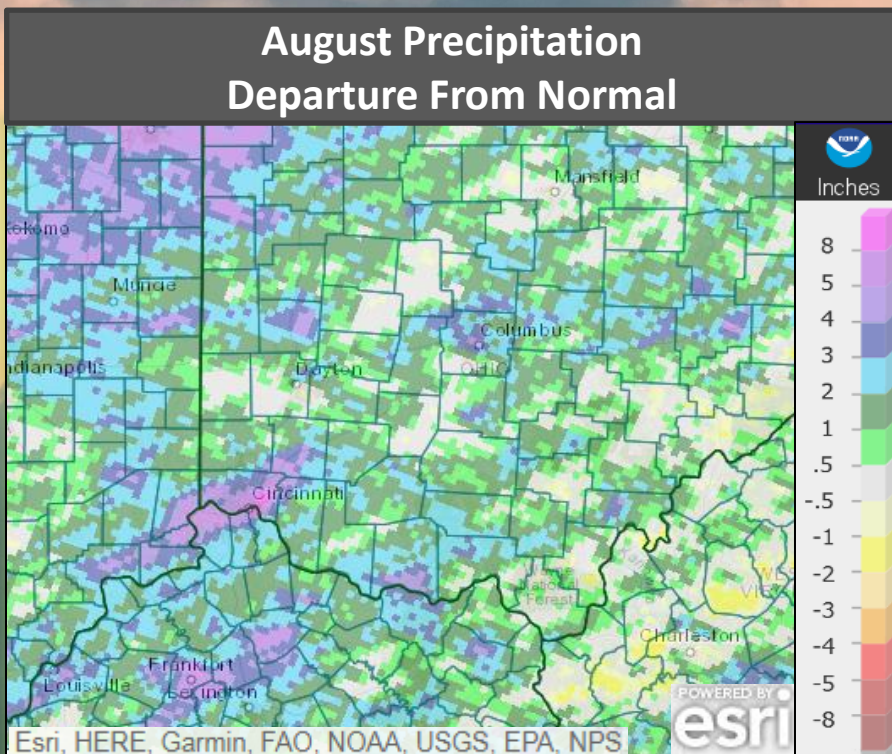
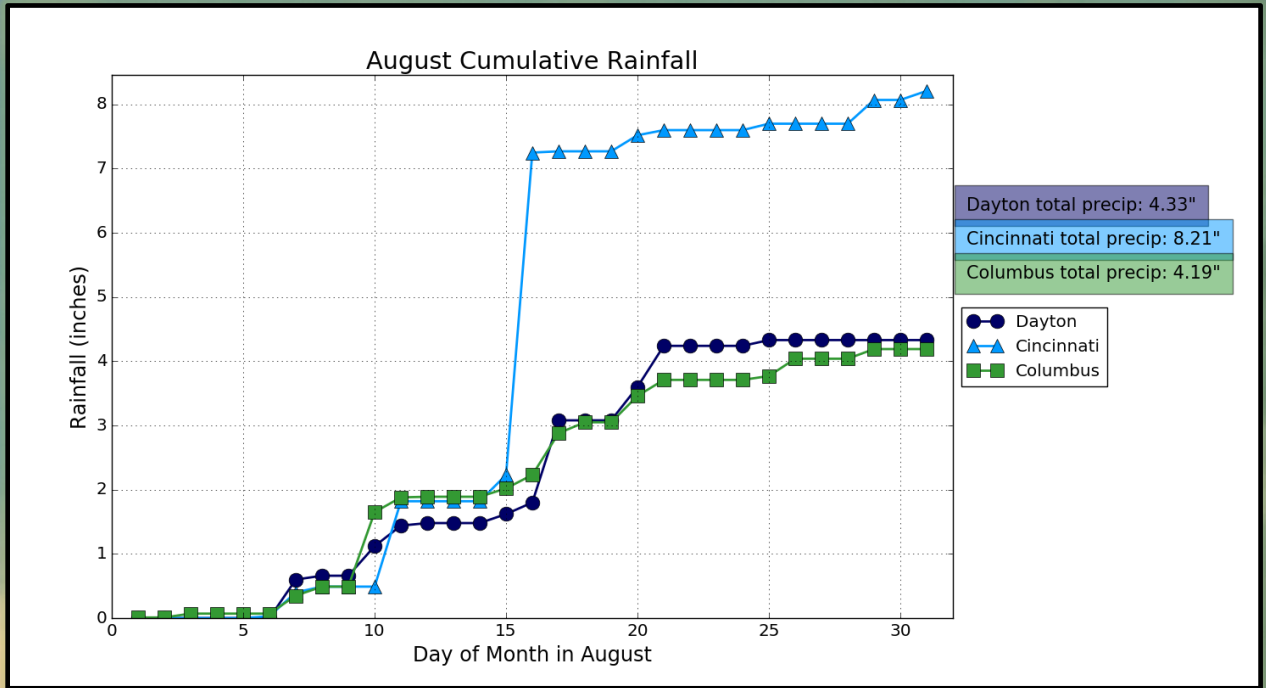
Late in the month, a fall-like cold front temporarily ended this pattern, producing a short period of sunny and breezy conditions. The end of the month was characterized by a shift to the seasonal pattern we often observe in late Summer: high humidity with isolated heavy rainfall.

Due to the very heavy rain on the 16th, August 2018 ended up being the 2nd wettest August of record at Cincinnati with 8.21 inches of rainfall. The record is from August of 1879, when 11.72 inches of rain fell. The other two main climate sites also experienced above normal rainfall, though to a lesser degree.

Site	Total Precipitation (in.)	Departure From Normal (in.)	Max Daily Precipitation (in./date)	
Cincinnati (CVG)	8.21	+4.80	5.02	16th
Columbus (CMH)	4.19	+0.87	1.16	10th
Dayton (DAY)	4.33	+1.34	1.28	17th



Precipitation (Continued)



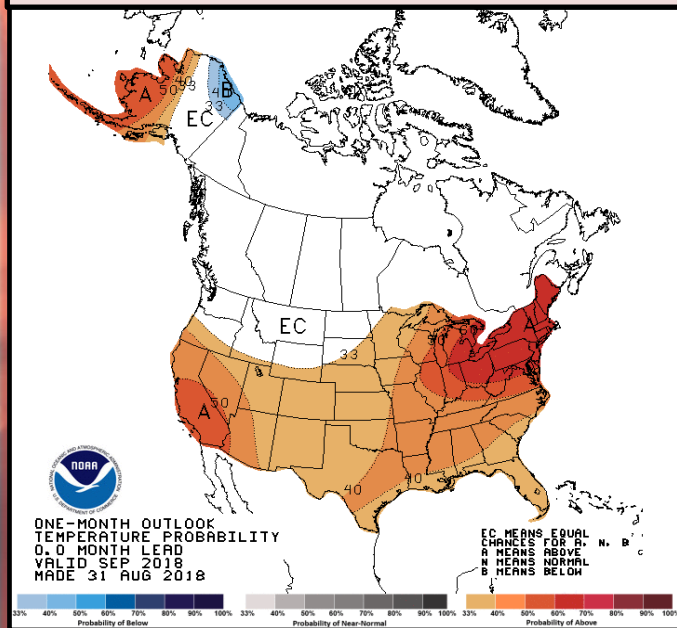
September Outlook

The latest outlook from the Climate Prediction Center calls for an increased likelihood of above normal temperatures. The precipitation signal is not as clear with equal chances of above, below, or normal precipitation.

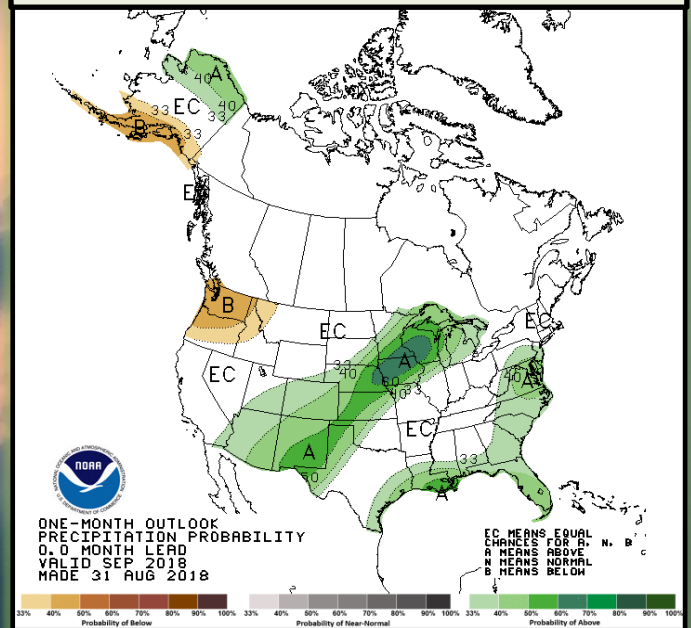
Site	Normal Avg Temp (°F)	Normal High (°F)	Normal Low (°F)
Cincinnati (CVG)	67.6	78.1	57.0
Columbus (CMH)	66.8	77.0	56.5
Dayton (DAY)	65.4	75.9	54.9

Site	Normal Precipitation (in.)
Cincinnati (CVG)	3.43
Columbus (CMH)	2.84
Dayton (DAY)	3.30

Upcoming Temperature Outlook



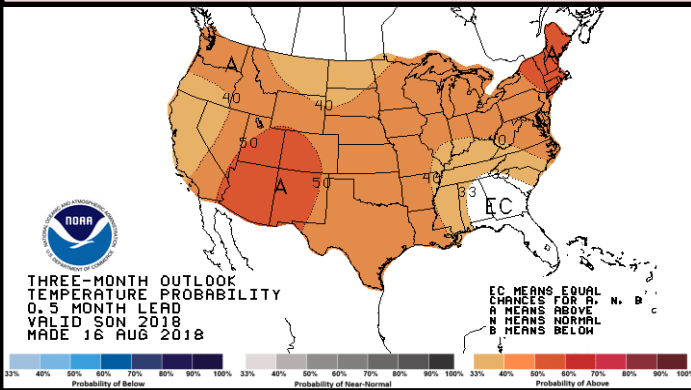
Upcoming Precipitation Outlook



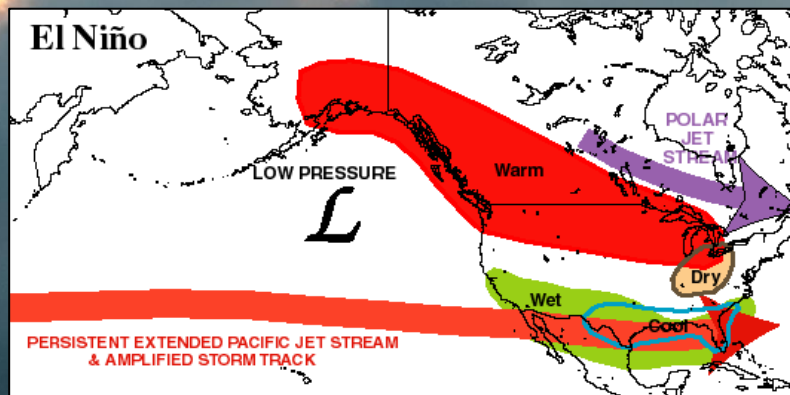
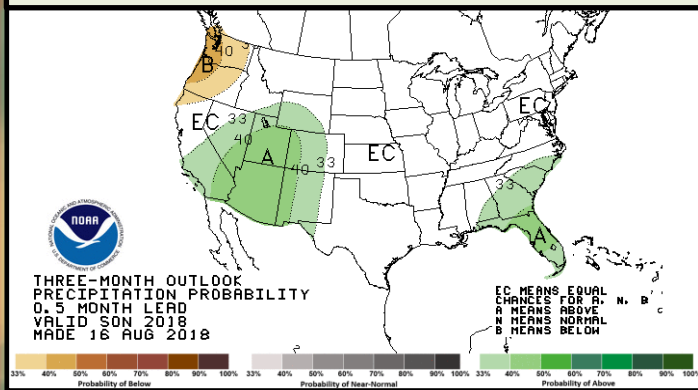
September-November Outlook

As with the one month September outlook, the three month September to November outlook calls for an increased likelihood of above normal temperatures. In addition, there are equal chances of below, above, and normal precipitation. There continues to be an El Niño Watch in place with a 60% chance of El Niño during the September to November timeframe. This chance increases to 70% during the upcoming winter months. The typical winter features with El Niño can be seen in the image below. It is important to note however that no two El Niño events have the same outcome and variances from the typical pattern can occur.

Three-Month (SON) Temp. Outlook



Three-Month (SON) Precip. Outlook



Climate Prediction Center/NCEP/NWS

