



# NWS Wilmington, Ohio October 2021 Regional Climate Summary

## Regional Climate Summary

***Temperatures were overall well above normal for the month. In addition, precipitation totals were also above normal in most locations. Severe weather during the middle of the month included damaging wind and several tornado touchdowns.***

# Temperatures

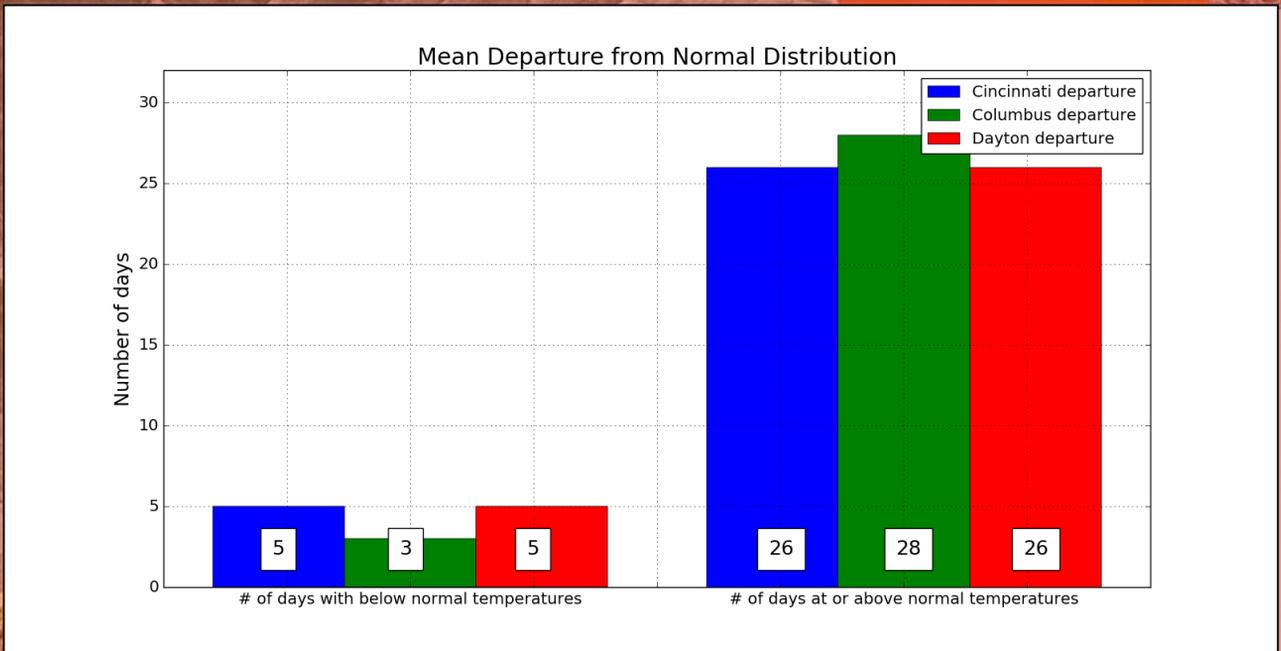
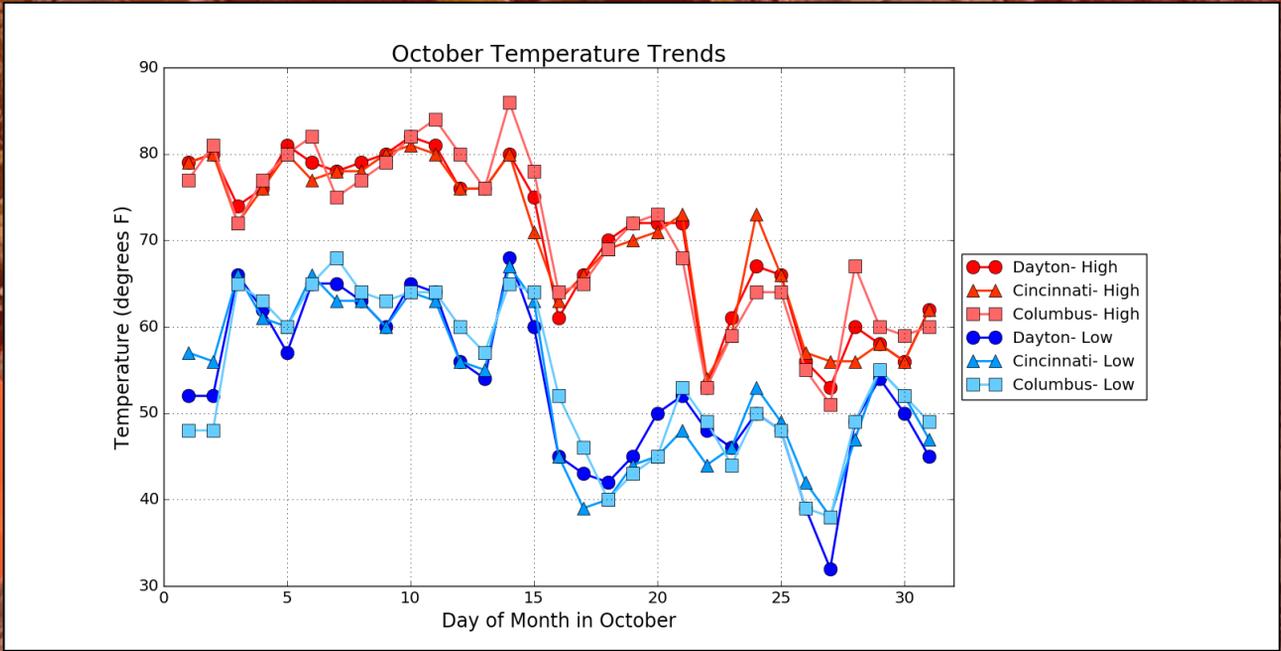
October started off with an extended stretch of above normal temperatures that lasted through the entire first half of the month before the area had a single day where the daily average temperatures was at or below normal. This was due primarily to a large ridge of high pressure that set up across the eastern half of the country and cutoff any substantial cold front from moving through the area until one finally did late on the 15<sup>th</sup> into the 16<sup>th</sup>. Cincinnati, Columbus, and Dayton all reported above normal daily average temperatures for each of the first 15 days of the month. In fact, at Cincinnati (KCVG), the high temperature reached at least 75°F on 13 separate days in the month, the 2<sup>nd</sup> most (2007) at the site since 1963, while Dayton (KDAY) had 14 such occurrences, the most at the site since 1963. Columbus (KCMH), meanwhile, also had 14 days with highs of at least 75°F, tied for the most at the site in the month of October since 1963. Moreover, over the first 15 days of the month, the average temperature was generally about 7-9 degrees above seasonal norms area-wide. Dayton had a daily record high minimum of 68°F set on October 14<sup>th</sup>, breaking the previous daily record of 67°F set in 1910. Meanwhile, Columbus set a new record high minimum of 64°F on the 15<sup>th</sup>, breaking the daily record for the site of 62°F set in 1897. The daily record high for Columbus was also tied on the 15<sup>th</sup>, reaching 86°F. A daily record high minimum of 65°F was also set at the site on the 14<sup>th</sup>, breaking the previous record of 62°F set in 1879.

Temperatures during the second half of the month were a little closer to normal values with some days below normal and some days above normal. The first frost and in some cases first freeze for some area locations occurred on the 27<sup>th</sup>.

Site	Avg Temp (°F)	Avg High Temp (°F)	Avg Low Temp (°F)	Departure From Normal (°F)	Maximum Temperature (°F)	Minimum Temperature (°F)
Cincinnati (CVG)	61.7	70.1	53.4	+5.5	81 on 10 <sup>th</sup>	38 on 27 <sup>th</sup>
Columbus (CMH)	62.2	70.6	53.9	+7.0	86 on 14 <sup>th</sup>	38 on 27 <sup>th</sup>
Dayton (DAY)	61.7	70.4	53.1	+5.7	82 on 10 <sup>th</sup>	32 on 27 <sup>th</sup>



# Temperatures (Continued)



# Precipitation

*Rainfall through the first two full weeks of the month was rather spotty in nature, owing to the more summerlike pattern of isolated to scattered showers and thunderstorms at various locations and instances during this time frame. Some spots picked up appreciable rainfall on the 3<sup>rd</sup> and then again on the 6<sup>th</sup> into the 7<sup>th</sup> before the more widespread rain arrived on the 15<sup>th</sup> into the 16<sup>th</sup> as a cold front finally pushed through the entire local area. A narrow axis of 1-2" of rain occurred near and just south of the I-71 corridor as a well-formed supercell tracked across the entirety of the local area with torrential, but brief, rainfall rates.*

*Several drier days evolved beyond the 16<sup>th</sup> until the next chance for rain arrived on the 21<sup>st</sup>. Several days of precipitation then occurred with most of the remaining days of the month having precipitation. This led to above normal precipitation values for a majority of the region for October.*

Site	Total Precipitation (in.)	Departure From Normal (in.)	Max Daily Precipitation (in./date)	
Cincinnati (CVG)	5.47	+2.12	1.27	15 <sup>th</sup>
Columbus (CMH)	3.57	+0.67	0.82	24 <sup>th</sup>
Dayton (DAY)	4.55	+1.60	1.47	8 <sup>th</sup>

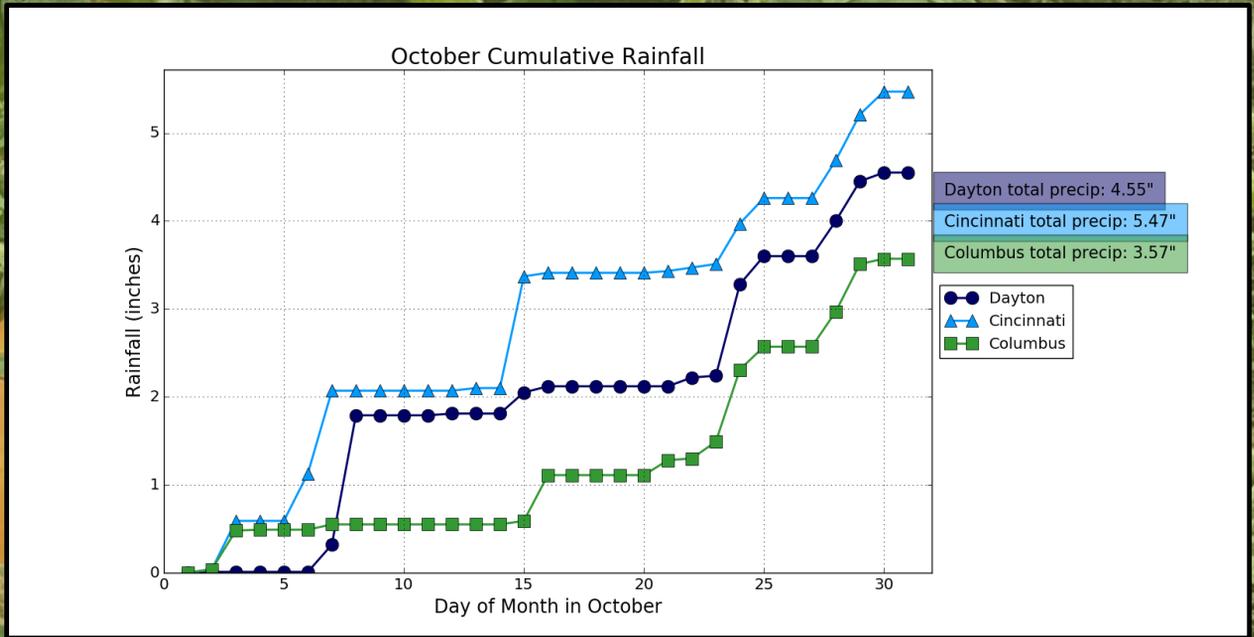


# Severe Weather

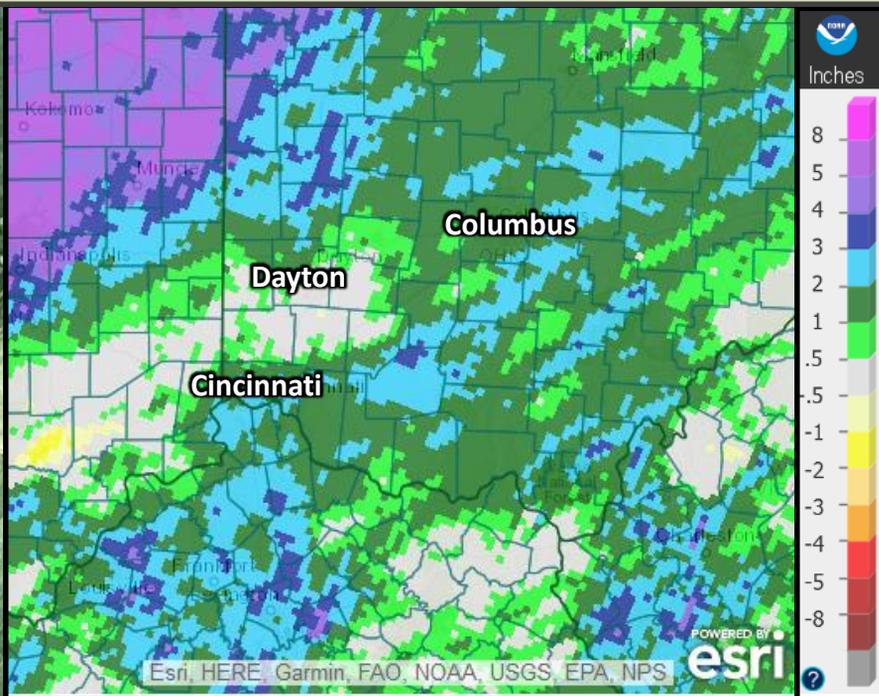
*Late in the evening hours on the 15th into the early morning hours on the 16th, a single well-formed supercell thunderstorm tracked from southern IN through northern KY and eventually into southwestern and central OH during the heart of the overnight hours. This single storm exhibited strong rotation at various points along its track, eventually producing numerous, but rather short-lived, tornadoes during a 3-4 hour span. The most significant of these tornadoes was an EF2 which touched down in Ross County, Ohio near the town of South Salem. At least six (6) tornadoes touched down across the local area, with as many as 12 across Indiana, Ohio, and Pennsylvania from this single supercell thunderstorm.*



# Precipitation (Continued)



## October Precipitation Departure From Normal (In.)



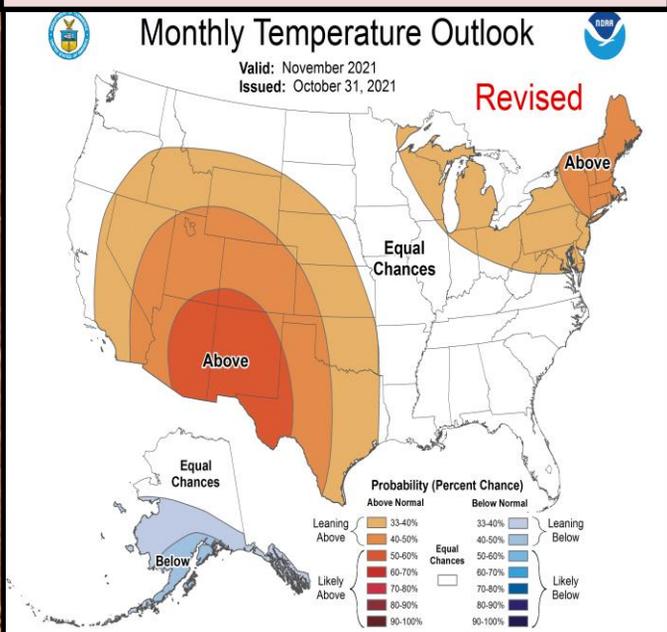
# November Outlook

The latest outlook from the Climate Prediction Center (CPC) calls for an increased chance of above normal temperatures for portions of the region. Most of the region has equal chances for above, below, and normal precipitation.

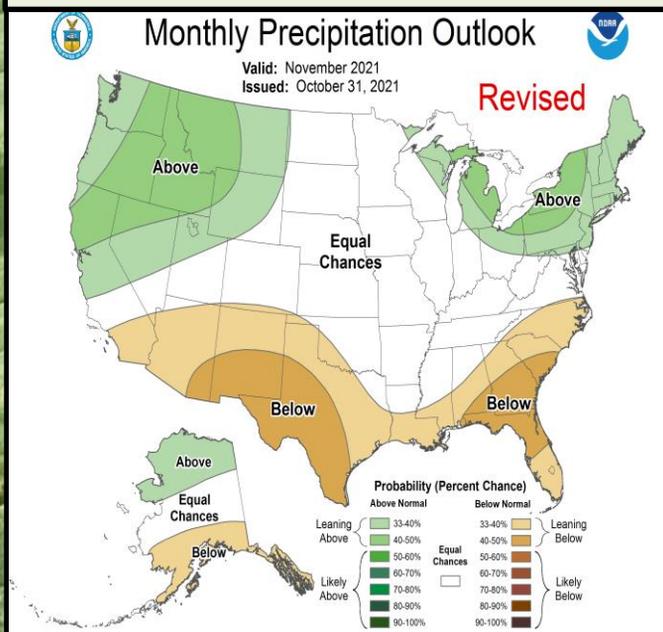
Site	Normal Avg Temp (°F)	Normal High (°F)	Normal Low (°F)
Cincinnati (CVG)	44.4°F	53.8°F	35.1°F
Columbus (CMH)	43.6°F	52.3°F	35.0°F
Dayton (DAY)	44.1°F	52.7°F	35.4°F

Site	Normal Precipitation (in.)	Normal Snowfall (in.)
Cincinnati (CVG)	3.23"	0.8"
Columbus (CMH)	2.79"	1.2"
Dayton (DAY)	3.07"	0.8"

## Upcoming Temperature Outlook



## Upcoming Precipitation Outlook



# Late Autumn/Early Winter Outlook

According to the Climate Prediction Center (CPC), there is an increased likelihood of above normal temperatures and precipitation for the November, December, and January timeframe.

According to the Climate Prediction Center, La Niña is expected to last through the 2021-2022 winter. Due to this, a La Niña advisory remains in effect.

## Three-Month (NJF) Temp. Outlook

## Three-Month (NJF) Precip. Outlook

