NWS Wilmington, Ohio
November 2022
Regional Climate Summary

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November offered quite the swing in seasonal conditions, with the first week and a half clinging onto summer as several days reached highs in the 70s. Thanks to some record breaking high (and minimum low) temperatures through the first third of the month, we finished the month of November with above normal temperatures. Our first measurable snowfall of the season also came during this month at Cincinnati, Dayton and Columbus. Overall, we had another month of below normal precipitation values across the majority of the forecast area.

Temperatures

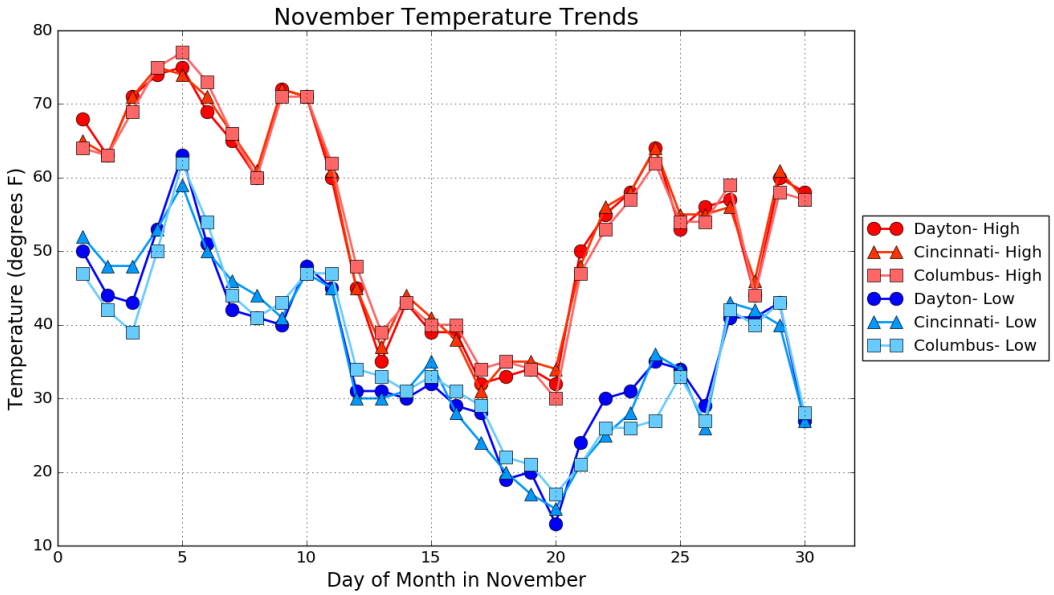
Quite the warm start to the month as the first 11 days of the month featured above normal temperatures across the board. The average daily temperature for November 1st-11th ranked as the 3rd warmest start to November on record for Dayton and Columbus. It ranked as the 4th warmest start to the month on record for the period at Cincinnati. Several temperature records were set during this unusually-warm start to the month. A daily record high of 77°F was set on November 5th for Columbus while daily record high minimums were also set on the same day for both Columbus (62°F – breaking old record for site of 61°F set in 1977) and Dayton (63°F – breaking old record of 60°F set in 2015) .

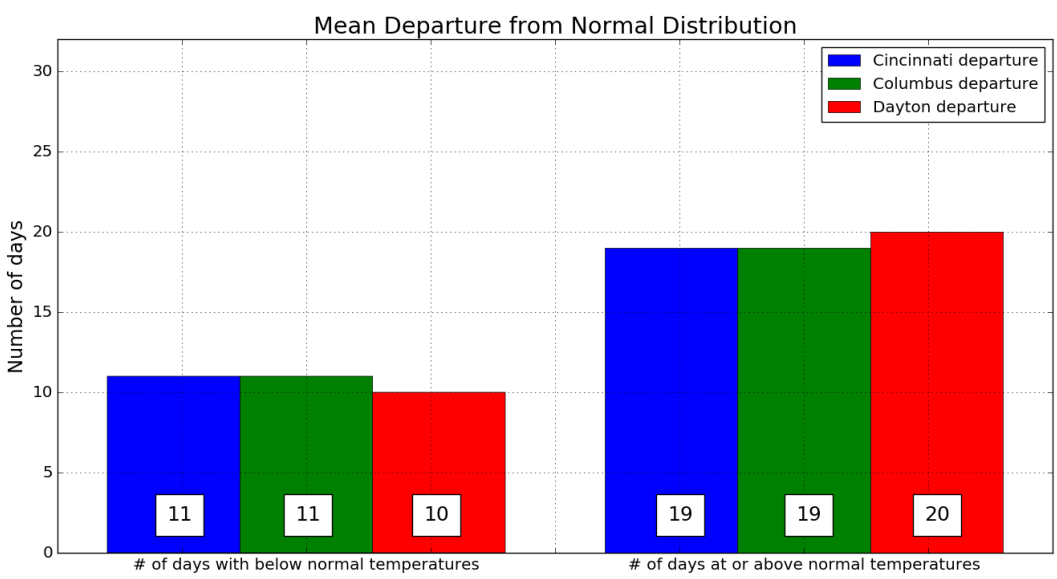
The unusually warm start to the month was abruptly ended by an equally-impressive cold stretch, which persisted from 12th through the 20th. This 9-day stretch was the 3rd coldest such stretch on record for Dayton for those dates. So with 5 of the first 11 days of the month featuring daily averages that were at least 10° above normal and 6 of the following 10 days that featured daily averages that were at least 10° below normal, the first 20 days of the month at Dayton ended up, well, exactly normal (0.0° from normal). Although these stats are shared for Dayton, the pattern was felt across the region and similar trends were noted elsewhere.

The final 10 days or so of the month again trended slightly above normal, as a whole, until the final day of the month in which a strong cold front brought back a winter chill to the Ohio Valley.

Site	Avg Temp (°F)	Avg High Temp (°F)	Avg Low Temp (°F)	Departure From Normal (°F)	Maximum Temperature (°F)	Minimum Temperature (°F)
Cincinnati (CVG)	45.5	54.9	36.2	+1.1	75 on 4th	15 on 20th
Columbus (CMH)	45.3	54.6	36.0	+1.7	77 on 5th	17 on 20th
Dayton (DAY)	45.4	54.5	36.3	+1.3	75 on 5th	13 on 20th

Temperatures (Continued)





Precipitation

The start of the month was not only warm but it was also very dry. All three climate sites observed below normal rainfall with Columbus and Dayton only observing a trace through the first 10 days. Cincinnati observed 0.01" during the same time period. The lack of rain ended on November 11th, when the moist air mass remnants of tropical cyclone Nicole moved into the Ohio Valley.

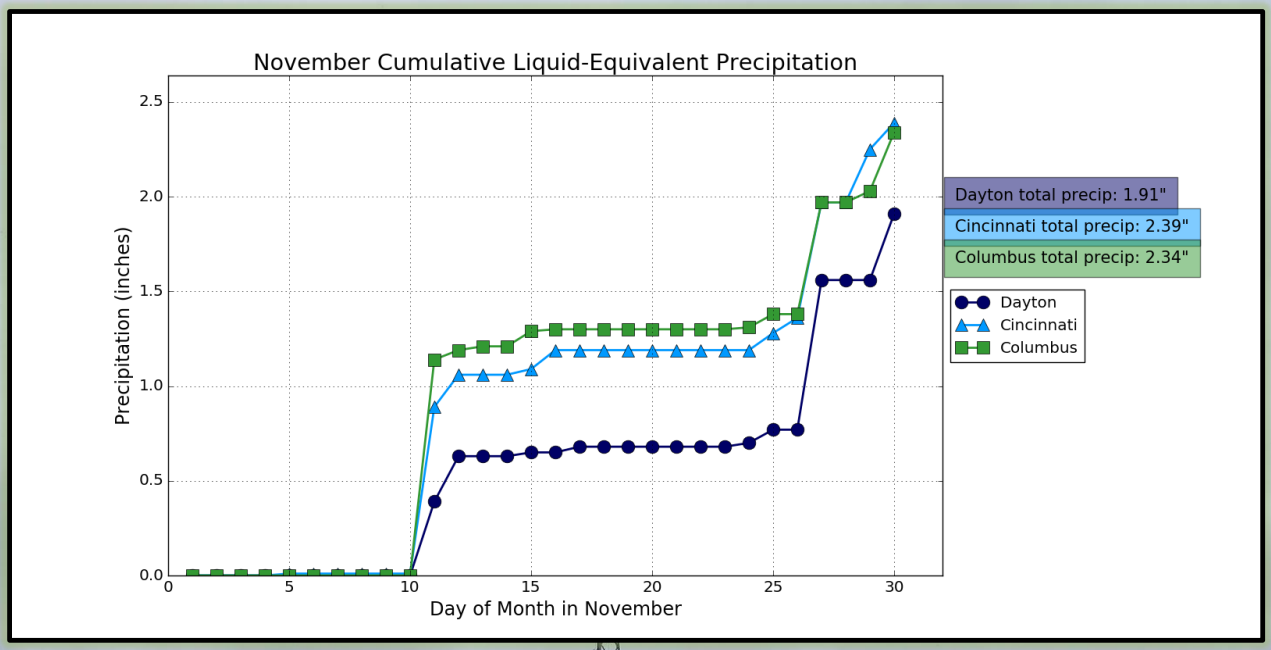
The rain that fell on the 11th was much needed as large portions of the region had dropped into quite a precipitation deficit and moderate to severe drought. Dayton observed 0.39", Cincinnati observed 0.88", and Columbus observed 1.14". The Columbus amount did set a new daily record for the date.

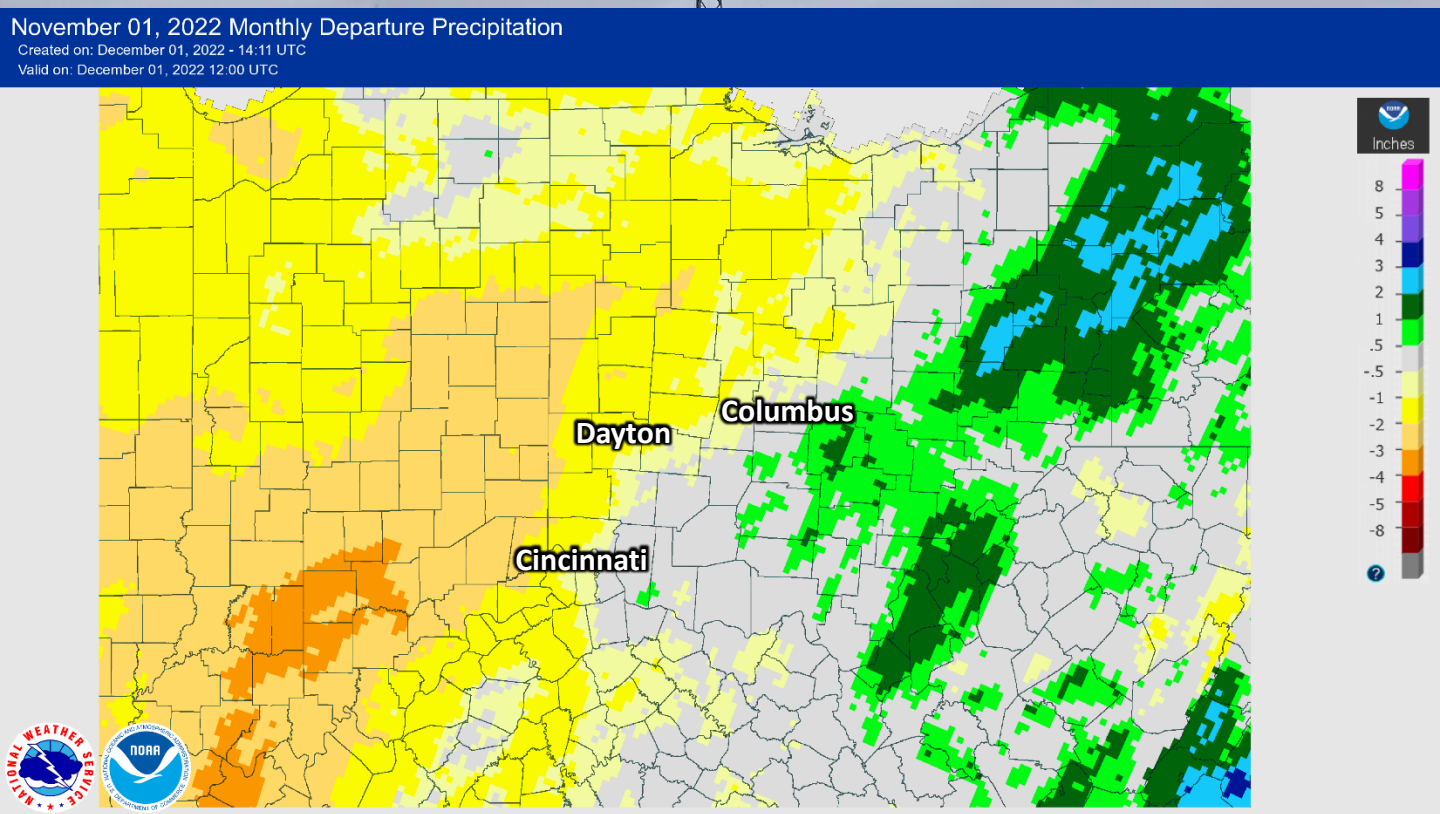
Temperatures dropped on the 12th as another round of precipitation moved in. Snowfall amounts of 1-2" fell across the tristate, portions of west-central Ohio and eastern Indiana. Daily snowfall records were set at Dayton and Cincinnati, with 1.9" and 1.2" respectively.

The next bout of heavier precipitation came on the 27th when a strong low pressure system provided over half an inch of rain across all of our major climate sites. Gusty winds would also accompany this low pressure system. The final two days of the month saw another round of precipitation and gusty winds with a strong cold front moving through the Ohio Valley. A few thunderstorms were observed as well, with some meeting severe criteria.

Site	Total Precipitation (in.)	Departure From Normal (in.)	Max Daily Precipitation (in./date)		Total Snowfall (in.)	Max Daily Snowfall (in./date)	
Cincinnati (CVG)	2.39"	-0.84"	0.88"	11th	1.6"	1.2"	12th
Columbus (CMH)	2.34"	-0.45"	1.14"	11th	0.3"	0.2"	12th
Dayton (DAY)	1.91"	-1.16"	0.79"	27th	2.4"	1.9"	12th

Precipitation (Continued)





Severe Weather

The only thunderstorm activity for the month of November would hold off all the way until the final two days of the month. A complex of stronger storms moved in during the late evening hours of the 29th as the Wilmington, OH forecast area was located in the warm sector of a low pressure system. A couple of the thunderstorms produced large hail and gusty winds. Several reports of hail were provided, with one of the reports near Felicity in Brown county, OH indicating hail size larger than a quarter. Estimated hailstone size was half dollar size.

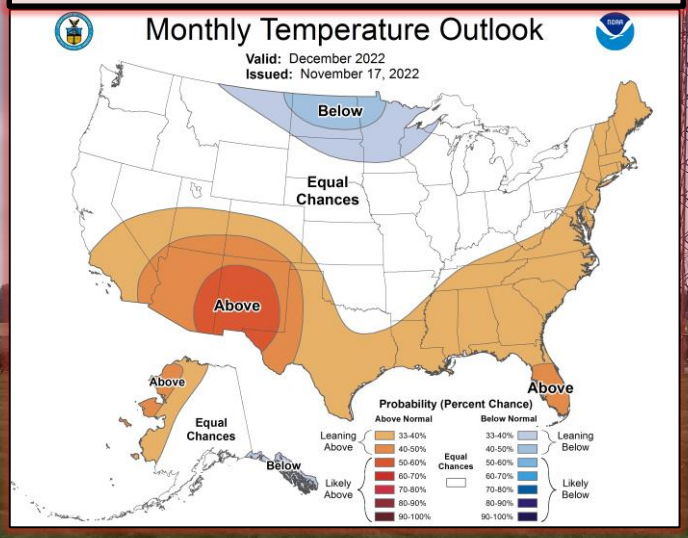
December Outlook

The latest outlook from the Climate Prediction Center calls for equal chances of below, normal, and above temperatures and precipitation.

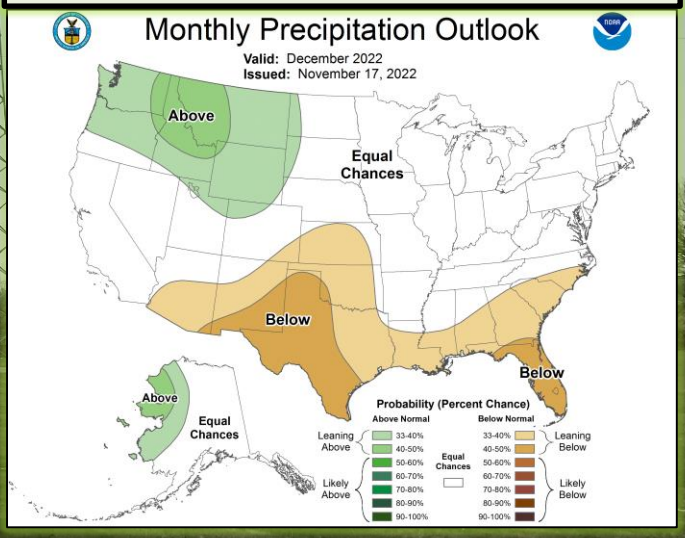
Site	Normal Avg Temp (°F)	Normal High (°F)	Normal Low (°F)
Cincinnati (CVG)	35.6	43.3	27.9
Columbus (CMH)	34.5	41.5	27.4
Dayton (DAY)	34.3	41.5	27.1

Site	Normal Precipitation (in.)	Normal Snowfall (in.)
Cincinnati (CVG)	3.73	4.1
Columbus (CMH)	3.13	5.1
Dayton (DAY)	3.05	4.8

Upcoming Temperature Outlook



Upcoming Precipitation Outlook

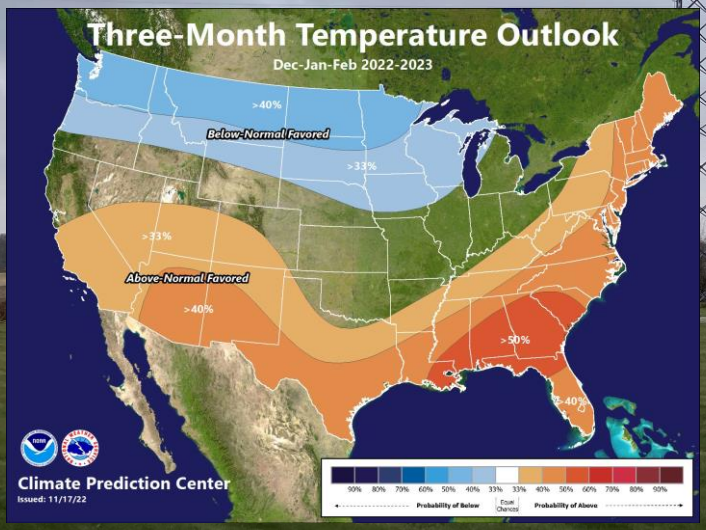
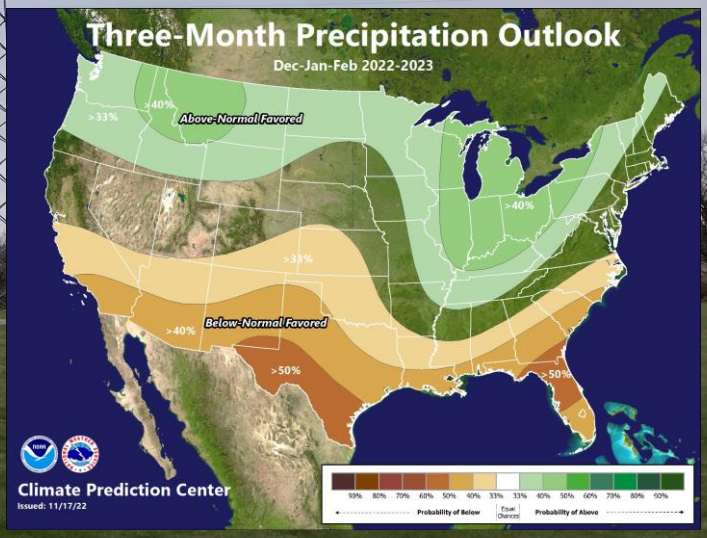


December-February Outlook

There is a 76% chance of La Niña during the winter months of December through February and therefore a La Niña advisory remains in effect. A transition to ENSO-neutral conditions is favored when transitioning to the February to April 2023 timeframe.

With La Niña expected, there is an increased likelihood of above normal precipitation across the entire region. There is also an increased likelihood of above normal temperatures across portions of Ohio and Kentucky while the rest of the region there are equal chances of above, below, and normal temperatures.

Three-Month (DJF) Temp. Outlook



Three-Month (DJF) Precip. Outlook