

NWS Wilmington, Ohio May 2019 Regional Climate Summary

Regional Climate Summary

May 2019 will largely be remembered for the tornado outbreak that occurred on May 27th-28th. In addition to the tornado outbreak, severe weather occurred on several other days throughout the month as well. Although some below normal temperature days occurred, two-thirds of the month was above normal. In addition, this year had an early end to frost and freezing temperatures. Temperatures at Dayton, Columbus, and Cincinnati had their lowest temperatures only dropping into the 40s.

Temperatures

The month of May started off on an unseasonably warm note, with temperatures reaching into the 70s and 80s for most of the first 10 days or so of the month. Highs reached into the 80s on multiple days during this stretch before cooler temperatures settled in past the 10th.

From the 10th through about the 15th, a slow moving and deep upper level low pivoted across the region, providing a stretch of 5-6 days with extensive cloud cover and precipitation which kept high temperatures well below seasonal norms. In fact, highs only reached into the low to mid 50s on several days during this period, with lows in the 40s and even some upper 30s on the morning of the 14th. However, past the midpoint in the month, a return to a much warmer pattern evolved, with above normal temperatures filtering into the region by the 16th.

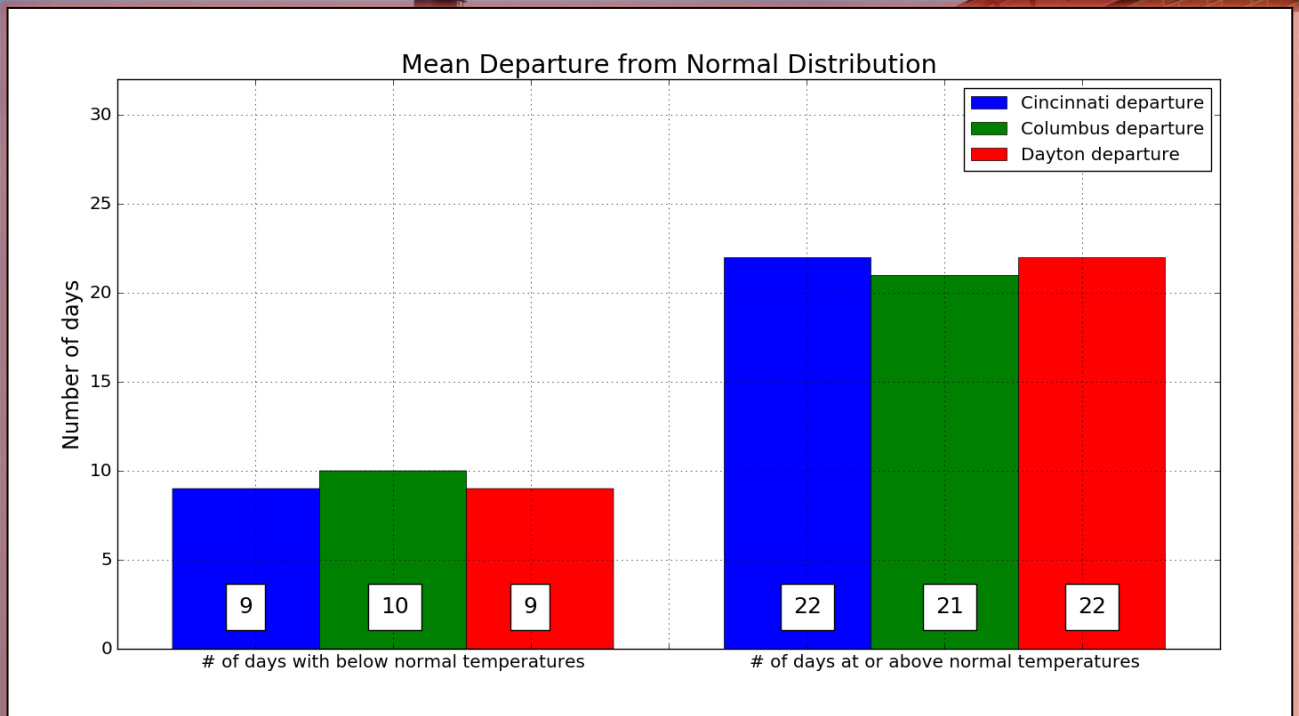
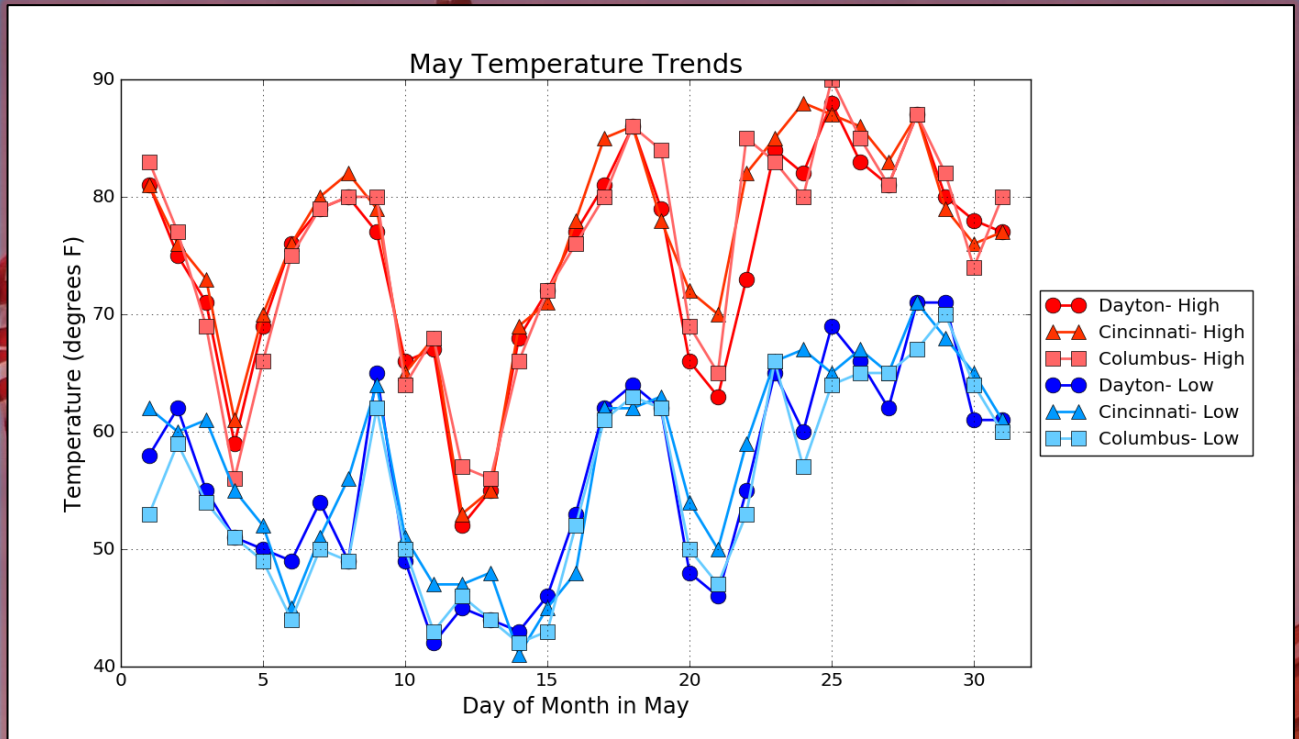
A cold front brought cooler temperatures in the 60s and 70s to the region for the 20th and 21st before widespread 80 degree temperatures returned by the 22nd. An extended stretch of above normal temperatures, with seasonably humid conditions evolved for the final week or so of the month. In fact, on the 25th, the temperature reached 90°F at Columbus, the first such instance of the year thus far.

The low temperature of 71°F at Cincinnati (CVG) on May 28th tied the record high minimum temperature for the date set in 1888. The low temperature of 71°F at Dayton (DAY) on the 28th also tied the record high minimum temperature for the date set in 2012. The low temperature of 71°F on May 29th at Dayton (DAY) broke the old high minimum temperature for the date of 70 last occurring in 1987.

Site	Avg Temp (°F)	Avg High Temp (°F)	Avg Low Temp (°F)	Departure From Normal (°F)	Maximum Temperature (°F)	Minimum Temperature (°F)
Cincinnati (CVG)	66.7°F	76.1°F	57.4°F	+3.2°F	88°F on 24th	41°F on 14th
Columbus (CMH)	65.2°F	75.3°F	55.0°F	+2.7°F	90°F on 25th	42°F on 14th
Dayton (DAY)	65.3°F	74.6°F	56.1°F	+3.9°F	88°F on 25th	42°F on 11th



Temperatures (Continued)



Precipitation

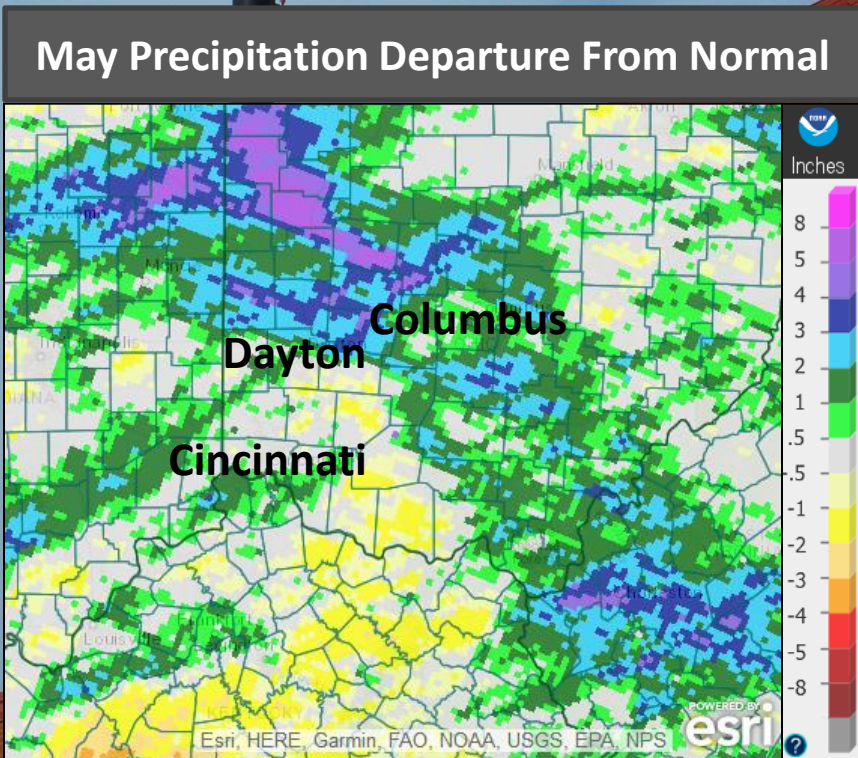
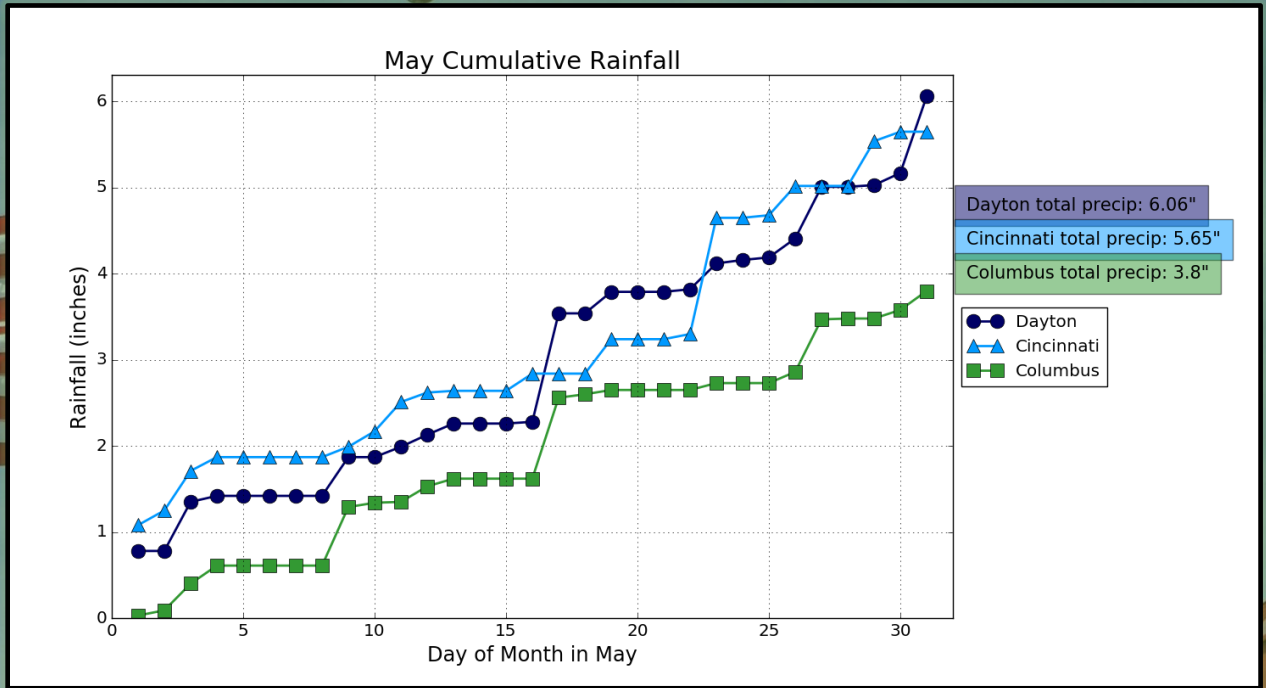
The wet pattern that has seemingly plagued the region every month in recent history continued for the start of May, with an active and summerlike pattern evolving for the first several days of the month before drier conditions returned from the 5th through the 8th. However, the dry stretch was rather short-lived as a slow moving upper level low pressure system pivoted over the Ohio Valley. This resulted in 5 straight days of isolated to scattered showers across the region, with little in the way of sunshine or warm air during this period. As a result, many locations in the local area received rainfall on 9 or even 10 of the first 13 days of the month.

This wet stretch was followed by a few much-needed dry days before another active pattern evolved past the 16th of the month. After the passage of a cold front drier conditions entered the picture for the 20th and 21st. An active weather pattern returned for the latter parts of the month with precipitation and severe weather occurring almost every day.

Site	Total Precipitation (in.)	Departure From Normal (in.)	Max Daily Precipitation (in./date)	
Cincinnati (CVG)	5.65 in.	+0.72 in.	1.35 in.	23rd
Columbus (CMH)	3.80 in.	-0.37 in.	0.94 in.	17th
Dayton (DAY)	6.06 in.	+1.40 in.	1.26 in.	17th



Precipitation (Continued)



Severe Weather

Isolated severe weather occurred on the 2nd and flooding on the 3rd, however after this time severe weather did not occur across the region until the 17th. During the early morning hours on the 17th storms produced large hail before transitioning to a flash flood threat. Over 5 inches of rain caused severe flash flooding and led to water rescues. Flooding from this rainfall lasted for days in some areas. This system left a boundary in place that was the focus area for additional severe thunderstorms later on the day on the 17th that produced damaging wind gusts. Thunderstorms around the Columbus area on the 18th produced several reports of damage. The active weather pattern continued into the 19th when storms moved into the region during the evening hours. Damaging wind gusts and three tornadoes occurred with these storms. An EF1 occurred in Huber Heights, an EF1 occurred in West Alexandria, and an EF1 tornado occurred in Eaton, Ohio.

May 19th



Severe Weather

The active weather pattern during the month continued on the 23rd, 25th, 26th, 27th, 28th, 29th, and 30th. The night of Monday May 27th into the early morning hours of Tuesday the 28th, a large outbreak of tornadoes occurred across the region. 19 tornadoes occurred across the Wilmington forecast area and 21 total in the state of Ohio. These tornadoes included an EF4 tornado that occurred near Trotwood, Ohio, an EF3 across eastern Montgomery into western and central portions of Greene County, an EF3 in Celina in Mercer County, and an EF3 in West Milton, Ohio. Several EF2s, EF1s, and EF0s also occurred.



May 27th



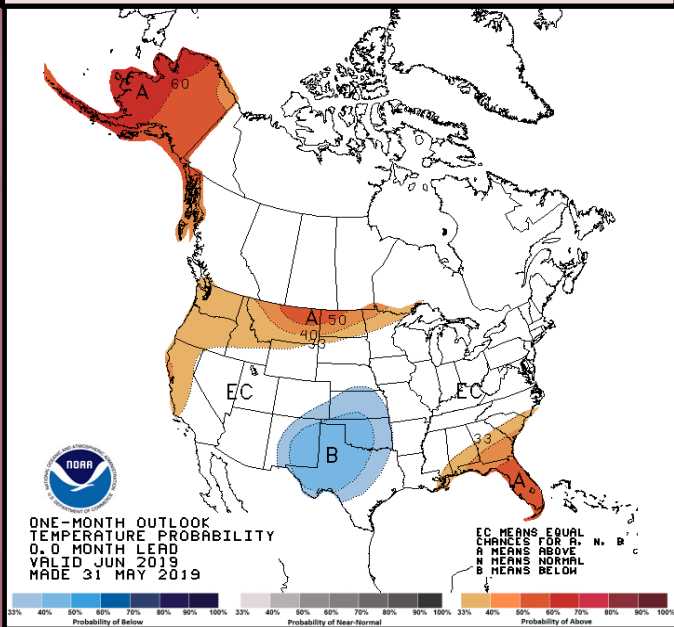
June Outlook

The latest outlook from the Climate Prediction Center calls for equal chances of above normal, below normal, and normal temperatures and precipitation for the month of June. This indicates that there is not a clear and distinct signal for a particular direction above, below, or close to normal.

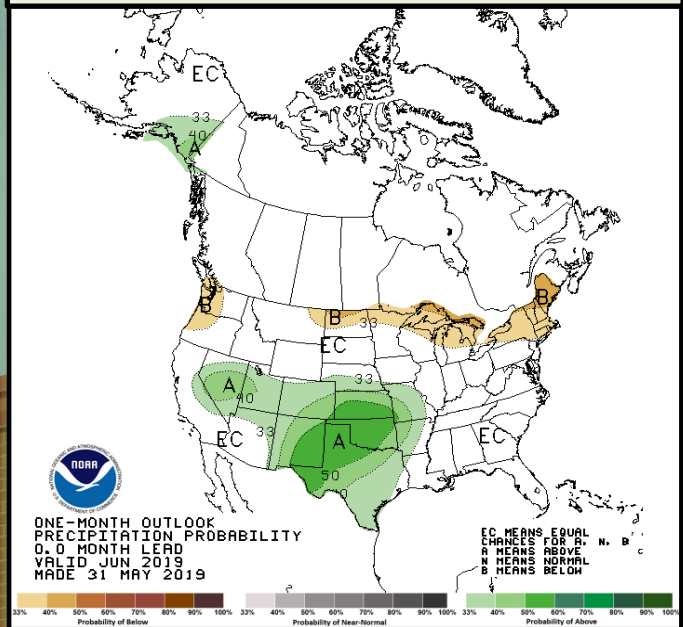
Site	Normal Avg Temp (°F)	Normal High (°F)	Normal Low (°F)
Cincinnati (CVG)	72.1°F	82.1°F	62.0 °F
Columbus (CMH)	71.5°F	81.6°F	61.5°F
Dayton (DAY)	70.6°F	80.2°F	60.9°F

Site	Normal Precipitation (in.)	Normal Snowfall (in.)
Cincinnati (CVG)	4.03"	0.0"
Columbus (CMH)	4.01"	0.0"
Dayton (DAY)	4.17"	0.0"

Upcoming Temperature Outlook

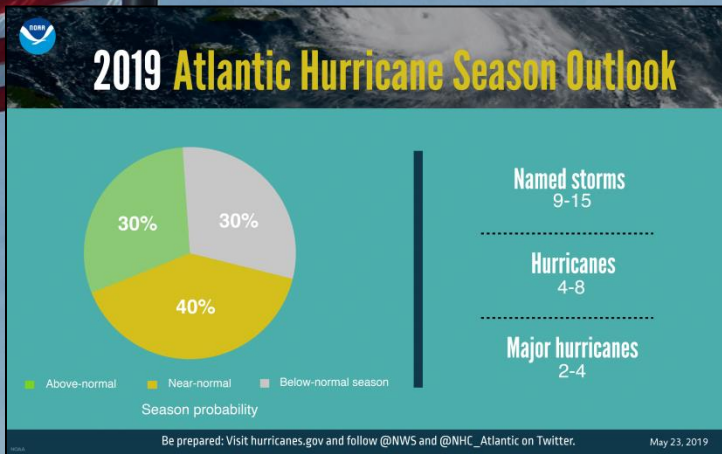


Upcoming Precipitation Outlook

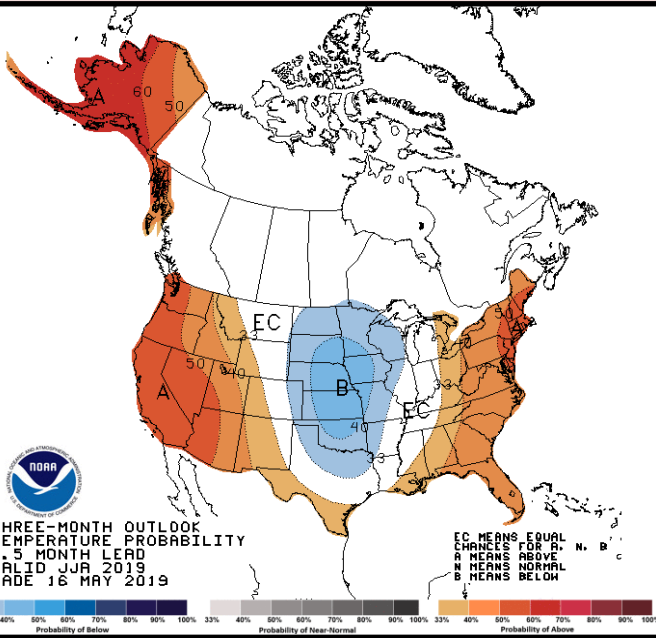


June-August Outlook

There is an increased likelihood of above normal temperatures and above normal precipitation across a majority of the region for the June, July, and August timeframe. For those traveling to coastal areas this summer the 2019 NOAA Atlantic Hurricane Season Outlook is included below.



Three-Month (JJA) Temp. Outlook



Three-Month (JJA) Precip. Outlook

