

# NWS Wilmington, Ohio May 2016 Regional Climate Summary

## Regional Climate Summary

*Like most springtime months across the Ohio Valley, May featured numerous fluctuations in temperatures throughout the month. Overall, temperatures were primarily below normal for the first 2/3 of the month, but began to trend warmer for the final 10 days or so. Total precipitation ended below normal for the three climate sites in the area, but the spotty nature of thunderstorms resulted in large differences in total rainfall across the area. Although CVG, CMH, and DAY all failed to record a daily rainfall of 1 inch or greater during the month, many locations in the area did see some heavy rainfall from springtime thunderstorms. There were also several low-end severe weather events across the region throughout May.*

# Temperatures

Although there were brief periods of above normal temperatures, the first few weeks of the month were overall characterized by below normal temperatures. While the first day of May was above normal, the passage of a frontal boundary led to cooler than normal temperatures for the rest of the first week of the month for many locations. Temperatures then fluctuated the next few days before three days (10<sup>th</sup>-12<sup>th</sup>) of temperatures in at least the 70s.

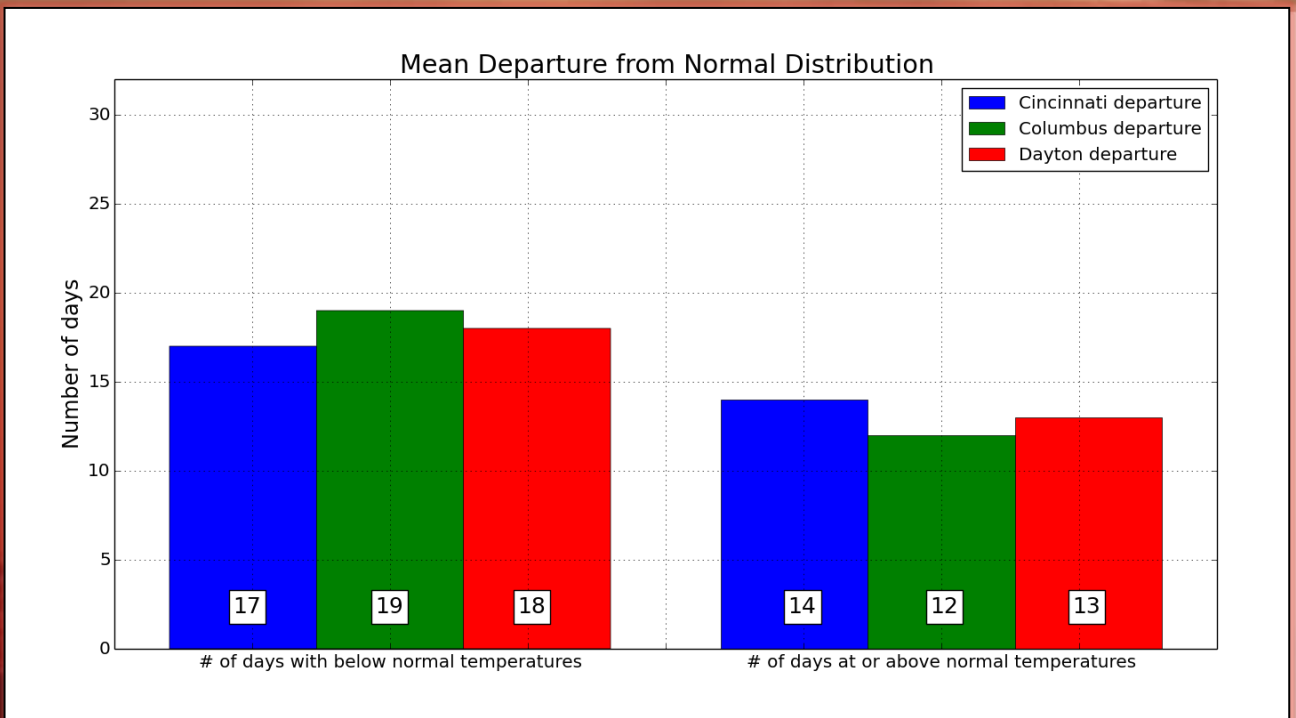
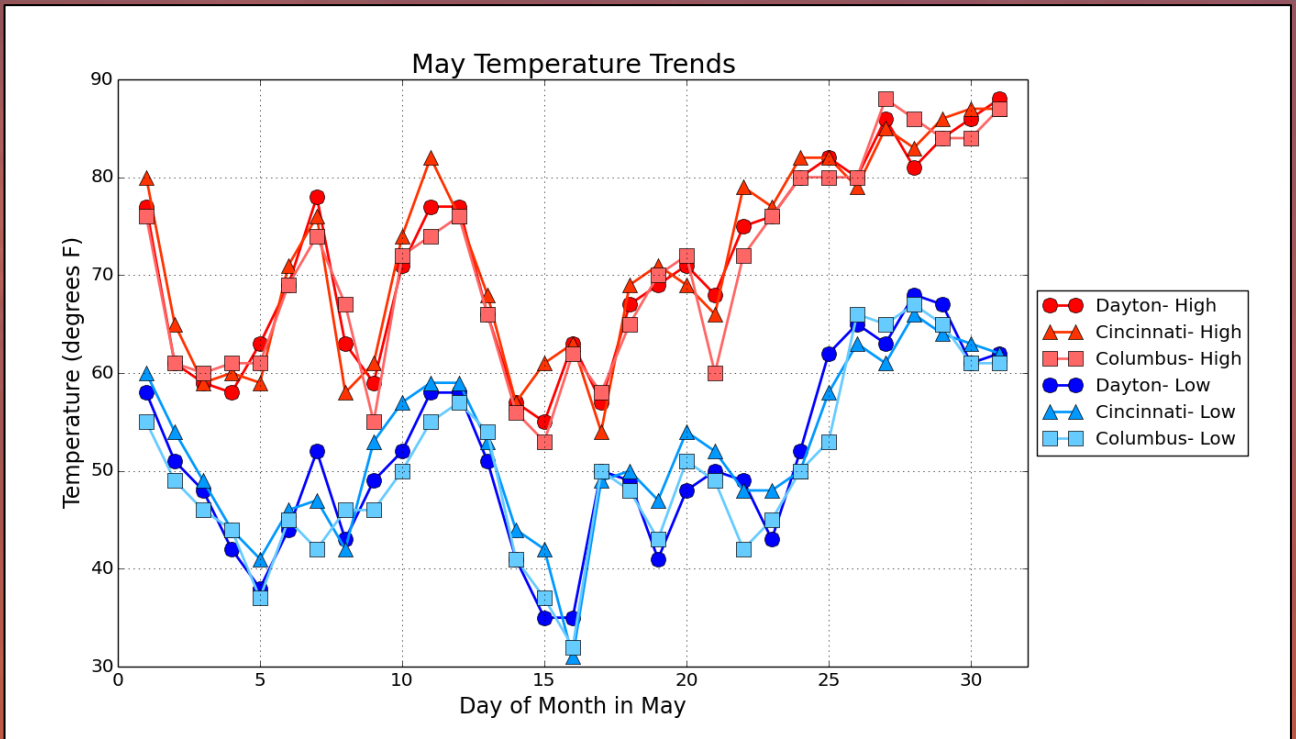
A significant cooldown occurred after the 12<sup>th</sup>. Temperatures were below normal (and in some cases well below normal) for 10 days. Frost and freeze conditions became problematic across the area as patchy frost occurred on the 15<sup>th</sup> with temperatures dropping into the 30s. A more widespread frost (and in many cases a freeze) occurred on the 16<sup>th</sup>, where temperatures dropped into the 30s (and even some upper 20s in rural/outlying areas). In fact, CVG set a new daily record low on the 16<sup>th</sup> of 31°F (previous was 32°F set in 1997). Additionally, CMH tied its **all-time** record latest freeze on the 16<sup>th</sup> (also occurred in 1959), which also tied the daily record low.

Temperatures continued to trend below normal through the 22<sup>nd</sup> before a significant warmup evolved across the Ohio Valley. High temperatures reached into the 80s for an extended stretch beginning on the 24<sup>th</sup>. Widespread above normal temperatures with highs of 80°F or warmer continued through the end of the month.

Site	Avg Temp (°F)	Avg High Temp (°F)	Avg Low Temp (°F)	Departure From Normal (°F)	Maximum Temperature (°F)	Minimum Temperature (°F)
Cincinnati (CVG)	62.0	71.8	52.1	-1.5	87°F (30 <sup>th</sup> )	31°F (16 <sup>th</sup> )
Columbus (CMH)	60.3	70.5	50.1	-2.2	88°F (27 <sup>th</sup> )	32°F (16 <sup>th</sup> )
Dayton (DAY)	61.1	71.1	51.1	-0.3	88°F (31 <sup>st</sup> )	35°F (15 <sup>th</sup> /16 <sup>th</sup> )



# Temperatures (Continued)



# Precipitation

May started off on a rainy note across the region, with many locations receiving rainfall 8 or 9 of the first 10 days of the month. There were several days of thunderstorms within this stretch, resulting in large differences in total precipitation across the area. However, a heavier more widespread event did move through the area on the 10<sup>th</sup>, dropping around 0.50-0.75” inches of rain across large parts of the area.

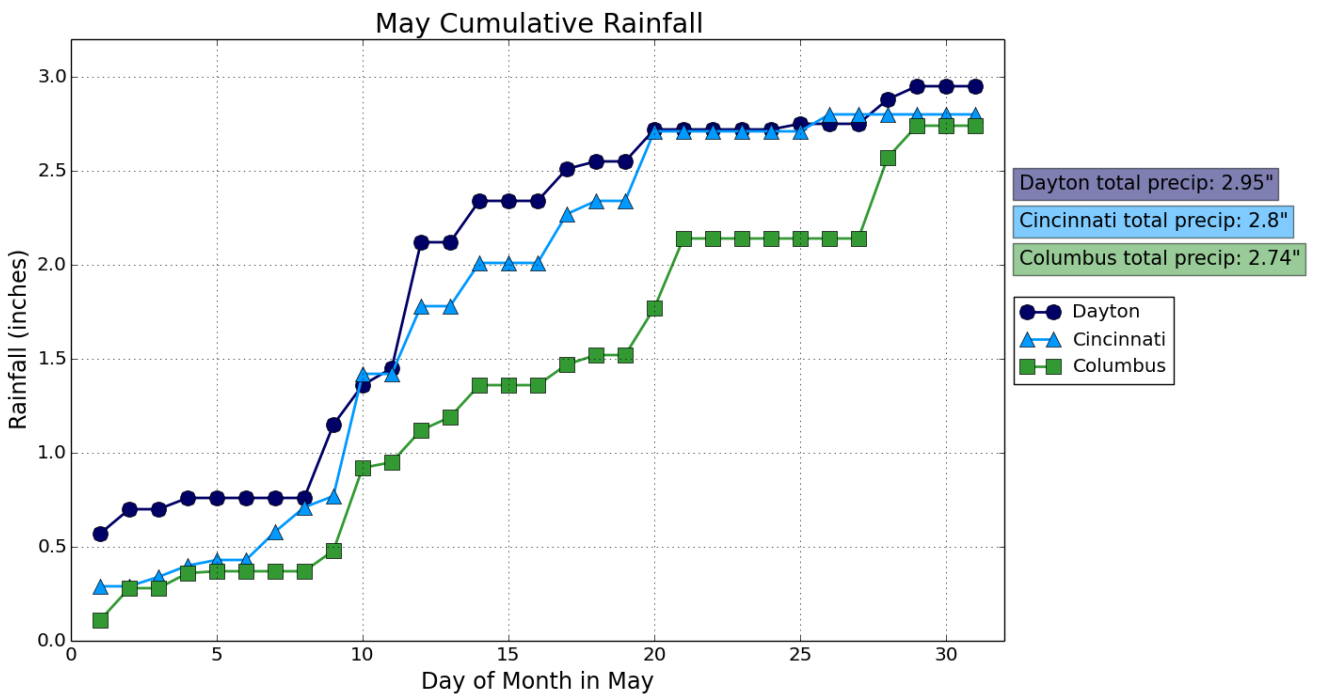
The trend of frequent, but light, rainfall continued through the middle of the month before drier conditions developed for the final 10 days or so. For example, CVG recorded measurable rainfall (at least 0.01”) on 13 of the first 20 days of the month (average for the entire month is 12 days of measurable rainfall). However, CVG received measurable rainfall only 1 of the final 11 days of May. Similar trends were observed at CMH and DAY.

This being said, however, there was an overall lack of heavy daily rainfall at all three of the climate sites. Not one of the sites received more than 0.67” of daily rainfall during the month. It should be noted, however, that the spotty nature of thunderstorms resulted in large differences in precipitation across the area as a whole. For example, on the 29<sup>th</sup>, there were a few locations in the area that received between 1 and 2.5 inches of rain due to slow-moving thunderstorms. Other areas received little to no rain at all.

Site	Total Precipitation (in.)	Normal (in.)	Departure From Normal (in.)	Max Daily Precipitation (in./date)	
Cincinnati (CVG)	2.80”	4.93”	-2.13	0.65”	10 <sup>th</sup>
Columbus (CMH)	2.74”	4.17”	-1.43	0.44”	10 <sup>th</sup>
Dayton (DAY)	2.95”	4.66”	-1.71	0.67”	12 <sup>th</sup>



# Precipitation (Continued)



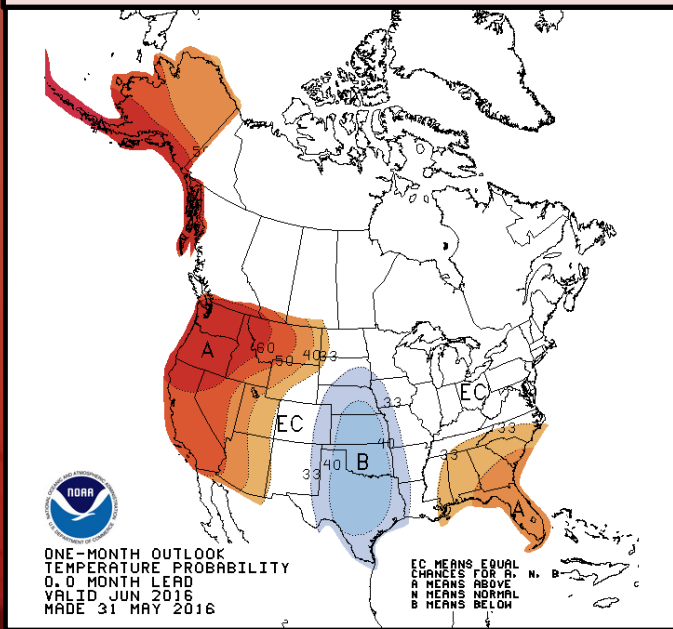
# June Outlook

The latest outlook from the Climate Prediction Center (CPC) calls for equal chances of above normal, normal, and below normal temperatures for the month of June. There is, however, an increased likelihood of below normal precipitation across portions of the area.

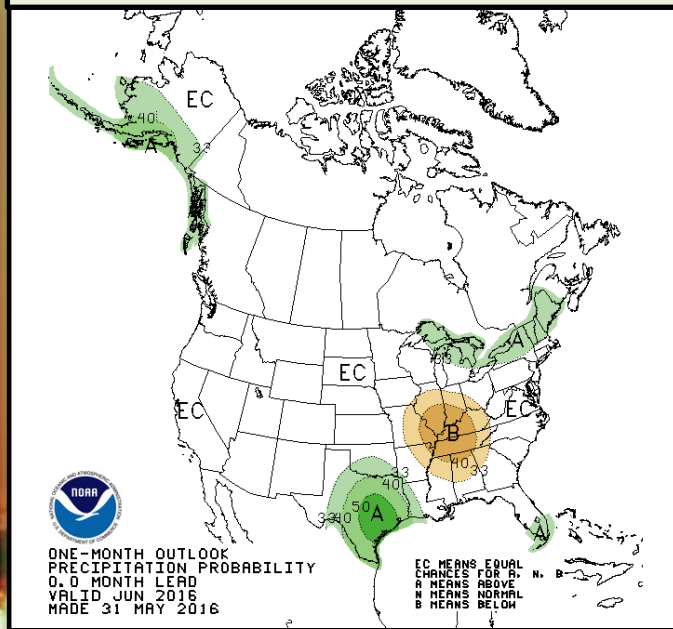
Site	Normal Avg Temp (°F)	Normal High (°F)	Normal Low (°F)
Cincinnati (CVG)	72.1°F	82.1°F	62.0 °F
Columbus (CMH)	71.5°F	81.6°F	61.5°F
Dayton (DAY)	70.6°F	80.2°F	60.9°F

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

## Upcoming Temperature Outlook



## Upcoming Precipitation Outlook



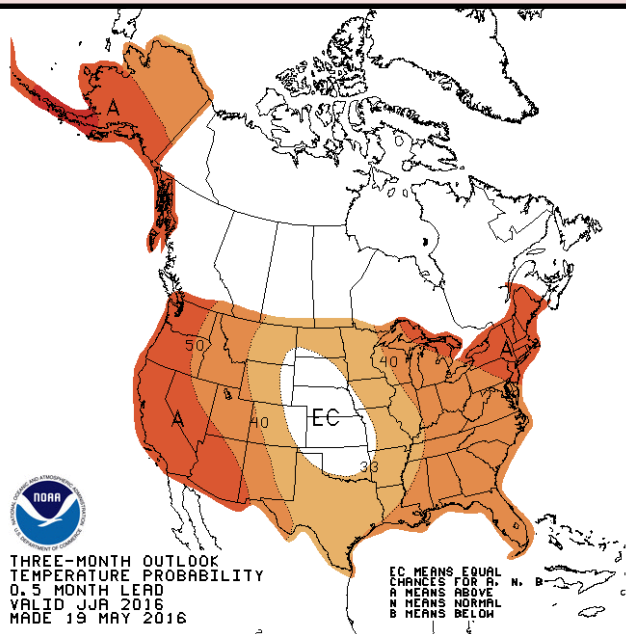
# June-August Outlook

*El Niño will continue to weaken and there will be a transition to ENSO-neutral conditions by early summer. There is an increasing chance for a transition to La Niña later during the second half of the year.*

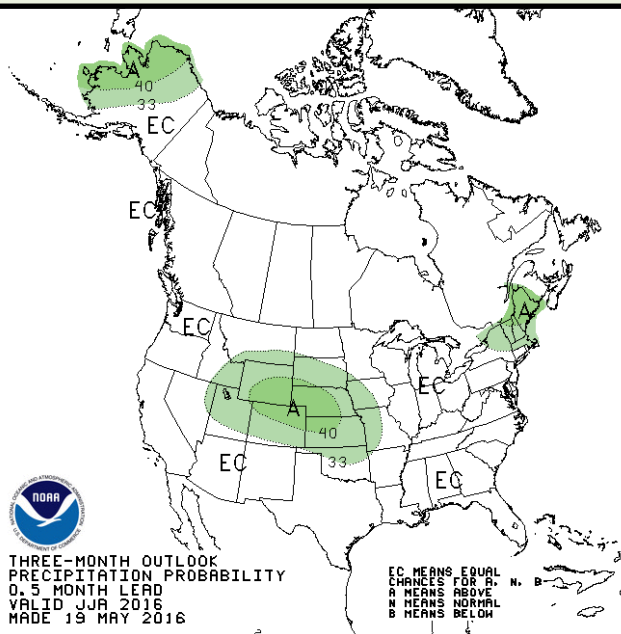
*Currently the El Niño advisory remains in effect and there is also a La Niña watch. There is a 75% chance of La Niña developing during the fall and winter of 2016-2017.*

*During the June-August timeframe there is an increased likelihood of above normal temperatures. There is not a clear signal for precipitation with equal chances of below normal, normal, and above normal precipitation across the Ohio Valley Region.*

## Three-Month (JJA) Temp. Outlook



## Three-Month (JJA) Precip. Outlook





# Severe Weather

*Although the severe weather activity was low for the month of May, there were several events that resulted in strong to severe thunderstorms in the area.*

*In fact, on the very first day of May, severe thunderstorms developed and moved through the area, producing large hail and damaging wind. Hail of 1.25" was reported in central Ohio, as well as several reports of trees and powerlines down due to thunderstorm wind.*

*On May 10<sup>th</sup>, another severe weather event evolved across the area, producing mainly damaging wind which resulted in sporadic tree damage. Storms moved east-northeast, tapering off late in the evening.*

*Scattered thunderstorms also resulted in isolated hail on the 28<sup>th</sup> and 29<sup>th</sup> along with several instances of heavy rain leading to localized flooding.*

