NWS Wilmington, Ohio
October 2019
Regional Climate Summary

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Record heat started the month with Cincinnati, Columbus, and Dayton each setting all-time record high temperatures for the month of October within the first several days of the month. In fact, the site October record high was set on consecutive days at Dayton where the temperature reached 94°F on each the 1st and the 2nd. Moreover, the dry conditions of September lingered through most of October before the month finished on a rather wet note.

Temperatures

     The start of October saw a continuation of the heat that was present in September. Record temperatures started the month. Not only were daily records met, but all time October monthly records were set as well with temperatures in the 90s. More information on the records that started out the month can be found on the next page.

     Temperatures on the 4th were much cooler, however still near or just above normal for this time of year. This was the case with most days from the 4th through the 9th having slightly above normal to near normal temperatures. From the 10th through the 12th however, there were wide swings in temperatures from well above normal to well below normal temperatures. Temperatures leveled off closer to normal values for the middle of the month before rebounding slightly around the 20th through the 21st. However, a weak cold front moving through the region early on the 22nd allowed for slightly cooler air to return to the Ohio Valley.

     Temperatures for the final week or so of the month generally averaged several degrees above normal – although certainly nowhere close to as warm as the first part of the month. In fact, temperatures dipped very close to the freezing mark for the first time of the season right as the calendar flipped to November.

Site	Avg Temp (°F)	Avg High Temp (°F)	Avg Low Temp (°F)	Departure From Normal (°F)	Maximum Temperature (°F)	Minimum Temperature (°F)
Cincinnati (CVG)	59.6°F	70.9°F	48.2°F	**+ 3.7°F**	95°F (10/01)	33°F (10/31)
Columbus (CMH)	58.4°F	69.8°F	47.0°F	**+ 3.4°F**	94°F (Mult.)	35°F (10/31)
Dayton (DAY)	58.4°F	69.5°F	47.4°F	**+ 4.5°F**	94°F (Mult.)	34°F (Mult.)

Temperatures (Continued)

Cincinnati

Date	Previous Record	2019 Value
1st	88°F in 1927	95°F
2nd	90°F in 1919	94°F
3rd	89°F in 1919 and 1910	94°F
Monthly Record	91°F in 1941 and 2007	95°F on 1st

Columbus

Date	Previous Record	2019 Value
1st	89°F in 1952	94°F
2nd	88°F in 1919	94°F
3rd	89°F in 1953 and 1898	93°F
Monthly Record	91°F in 2007	94°F on 1st and 2nd

Dayton

Date	Previous Record	2019 Value
1st	93°F in 1897	94°F
2nd	90°F in 1900 and 1898	94°F
Monthly Record	93°F in 1897	94°F 1st and 2nd
1st (High Min Temp)	68°F in 1927	69°F
2nd (High Min Temp)	68°F in 2018 and 1927	72°F
Monthly High Min Temp Record	72°F in 1941	72°F on 2nd

Temperatures (Continued)

October Temperature Trends

Mean Departure from Normal Distribution
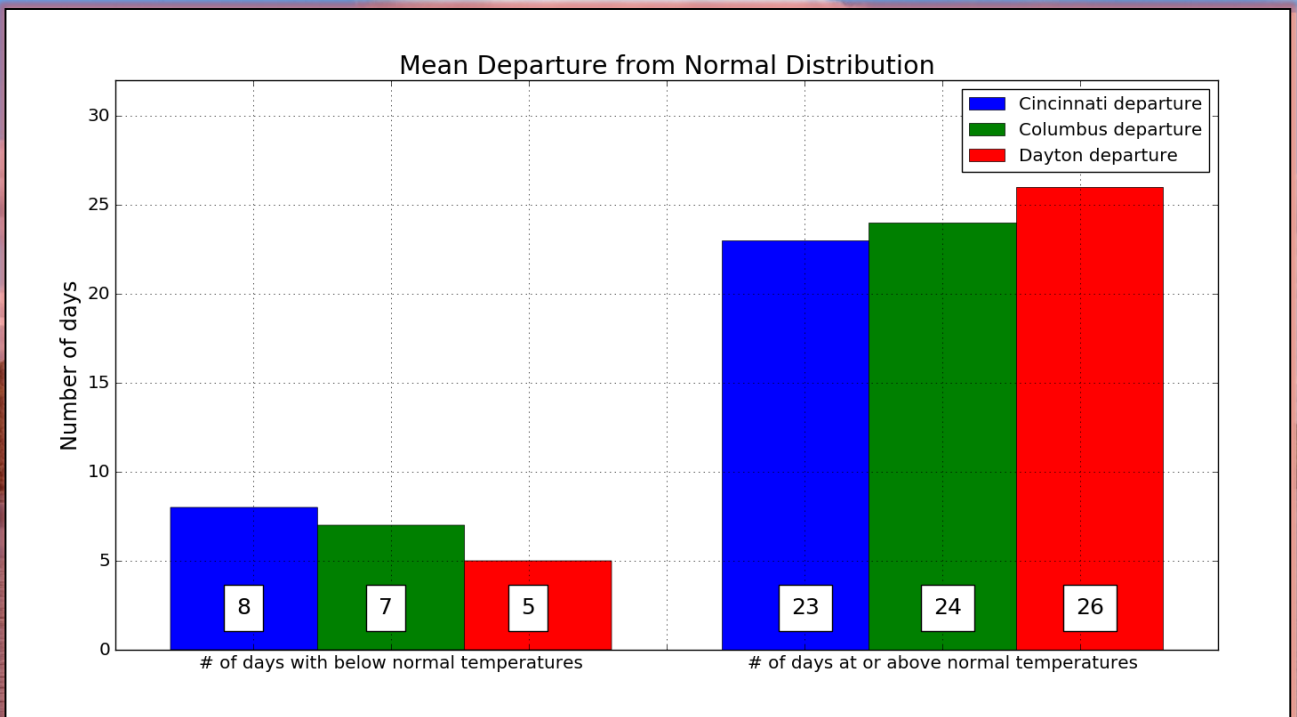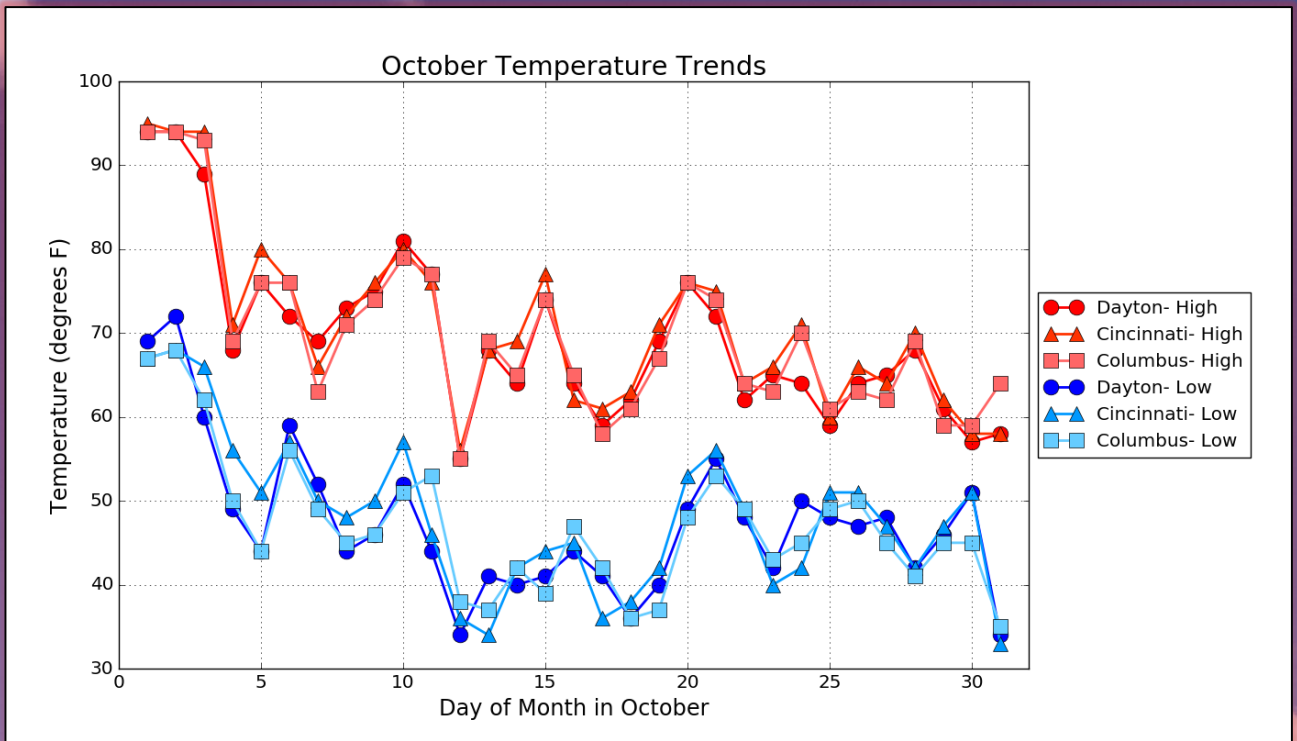
Precipitation

      At the start of the month most locations around the region ranged from abnormally dry to severe drought conditions. Dry conditions continued into the start of the month and persisted across most locations until much needed rainfall moved into the region on the night of the 5th into the 6th. Rainfall values were much higher across the lower Scioto Valley and significantly less across the Miami Valley region. Rainfall across the region from this event ranged from about a quarter of an inch to several inches in south-central Ohio.
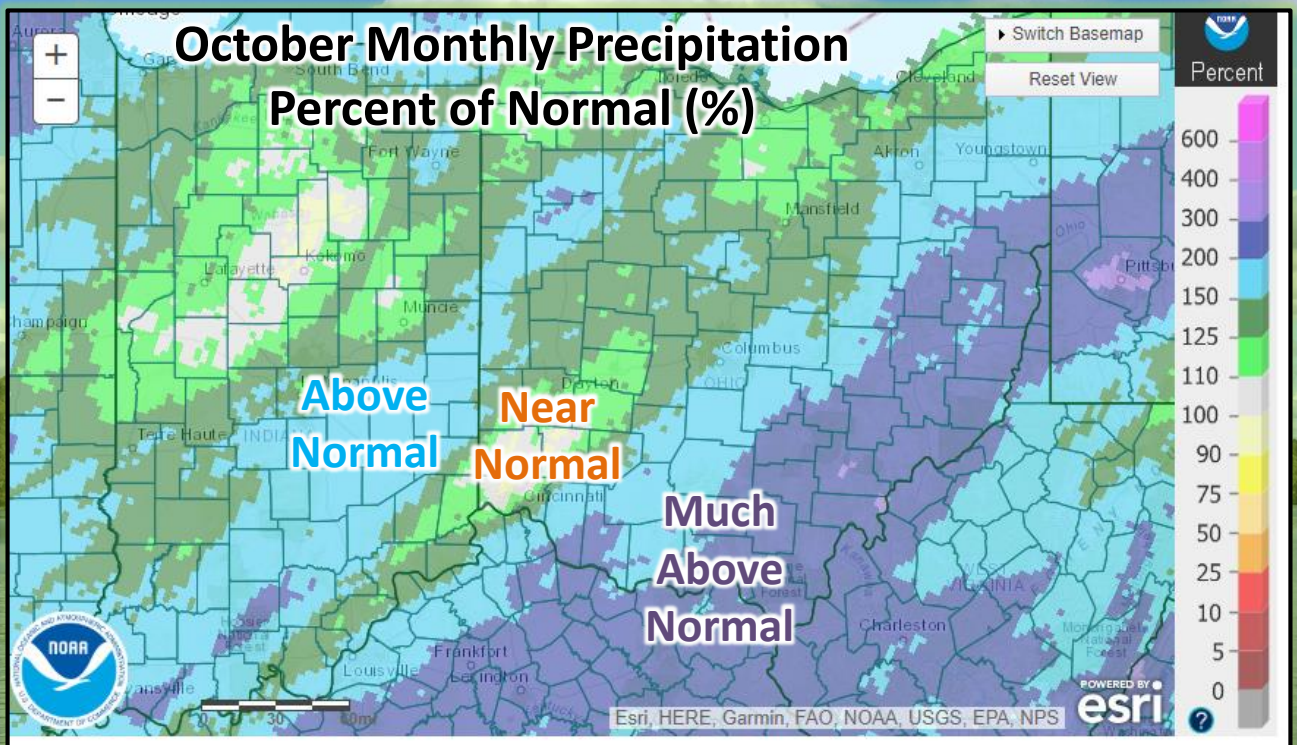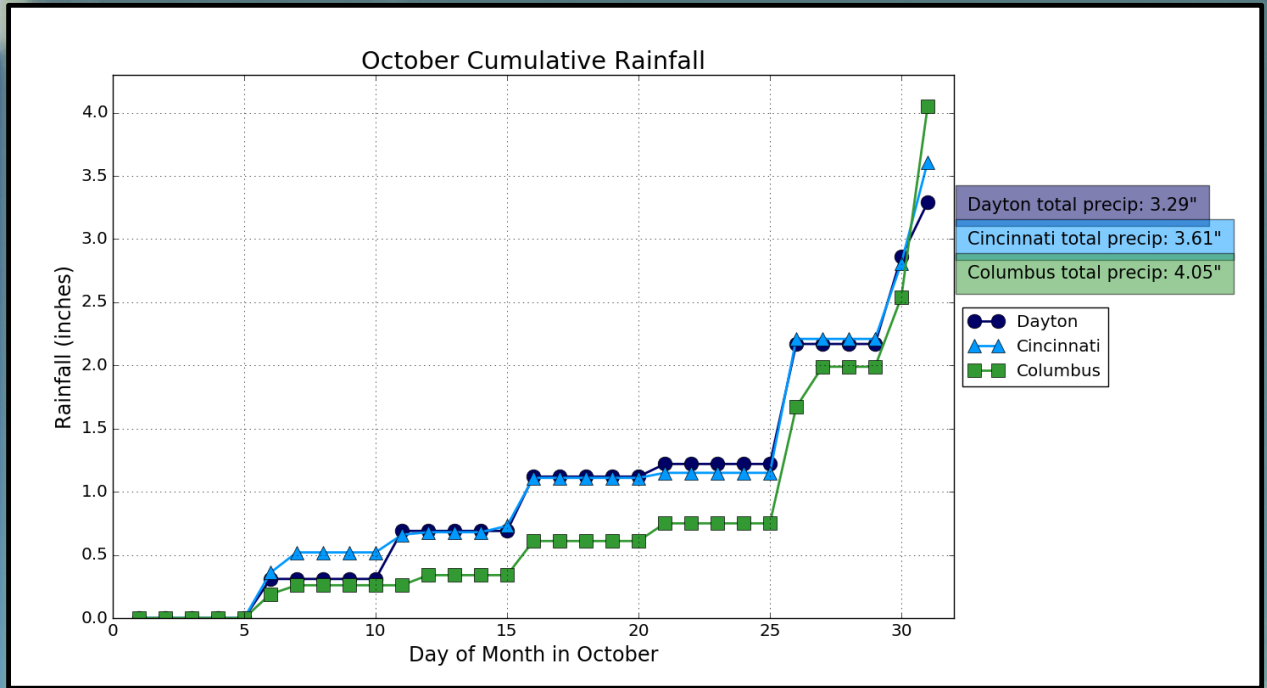
Following the rain from the 6th into the 7th, drier conditions returned until the 11th into the 12th as another system tracked through the Ohio Valley. However, rainfall from this system was generally on the order of only a tenth or two. More light rain fell across parts of the area on the 15th into the 16th, and again on the 21st into the 22nd, but overall rainfall through the first three quarters of the month was well below normal.

      However, multiple seasonably-typical steady/soaking rain events evolved through the final week of the month. The first, which impacted the region mainly on the 26th, brought between 0.5"-1.5" of rain to most of the region, with isolated higher amounts. Another more complex system brought an additional 1-2" between the 30th and 31st combined – allowing for monthly totals to end slightly above normal for many spots in the local area!

Site	Total Precipitation (in.)	Departure From Normal (in.)	Max Daily Precipitation (in./date)		Total Snowfall (in.)	Max Daily Snowfall (in./date)	
Cincinnati (CVG)	3.61"	+ 0.31"	1.06"	10/26	0.0	--	--
Columbus (CMH)	4.05"	+ 1.44"	1.51"	10/31	T	T	10/31
Dayton (DAY)	3.29"	+ 0.36"	0.95"	10/26	T	T	10/31

Precipitation (Continued)

October Cumulative Rainfall

Dayton total precip: 3.29"
Cincinnati total precip: 3.61"
Columbus total precip: 4.05"

October Monthly Precipitation Percent of Normal (%)

Above Normal
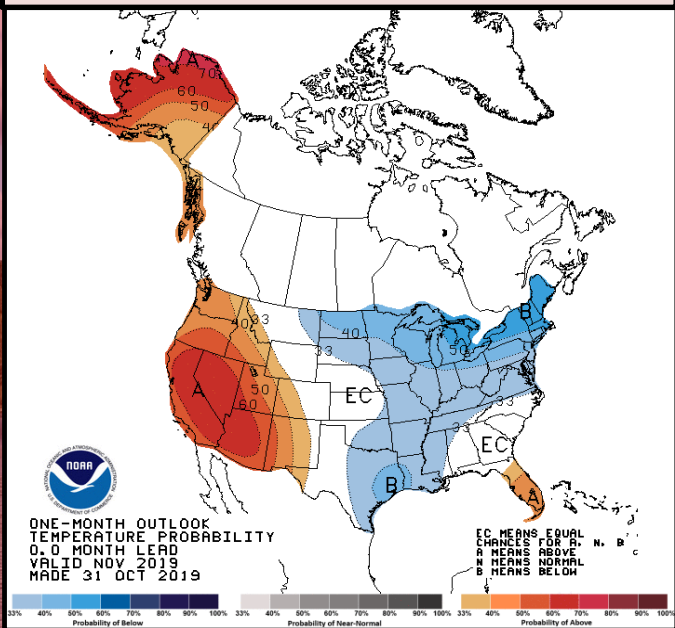
Near Normal

Much Above Normal

November Outlook

The latest outlook from the Climate Prediction Center (CPC) indicates favorable probabilities for below normal temperatures during the month of November. However, there was not a clear signal for precipitation to be either above normal or below normal through much of the region.
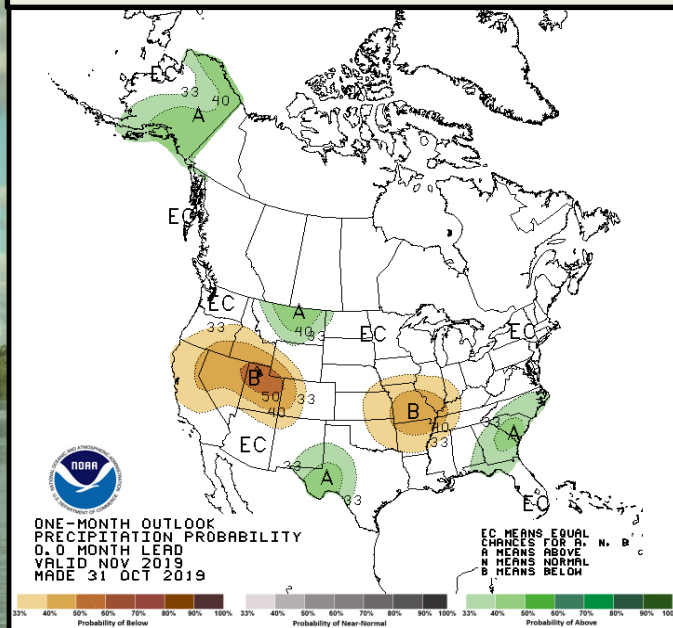
Site	Normal Avg Temp (°F)	Normal High (°F)	Normal Low (°F)
Cincinnati (CVG)	45.1°F	54.0°F	36.2°F
Columbus (CMH)	44.4 °F	52.6°F	36.1°F
Dayton (DAY)	42.8°F	51.1°F	34.6°F

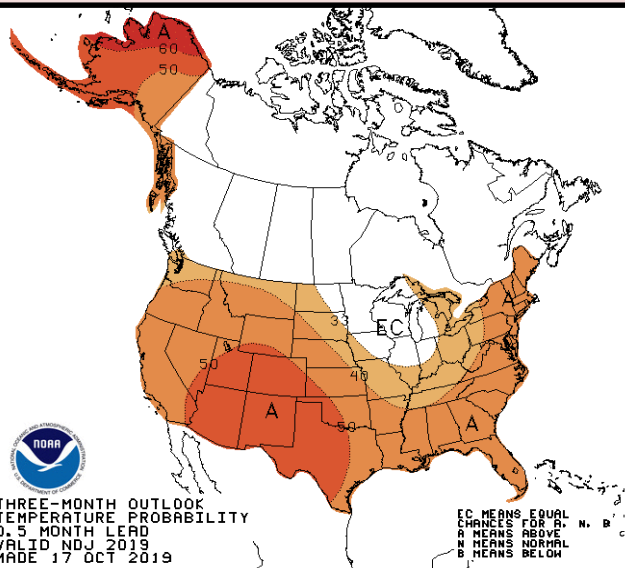| Site	Normal Precipitation (in.)	Normal Snowfall (in.)
Cincinnati (CVG)	3.43 in.	0.4 in.
Columbus (CMH)	3.20 in.	0.9 in.
Dayton (DAY)	3.39 in.	0.6 in.

Upcoming Temperature Outlook

Upcoming Precipitation Outlook

November-January Outlook

The latest seasonal outlook from the Climate Prediction Center (CPC) indicates favorable probabilities for above normal temperatures – as an average/whole – for the months of November, December, and January. This incorporates what is anticipated to be a below normal November from a temperature perspective – indicating perhaps a warmer-than-normal December and January. However, the data was less conclusive on whether to expect a wetter-than-normal or drier-than-normal three month stretch.

Three-Month (NDJ) Temp. Outlook	Three-Month (NDJ) Precip. Outlook