

NWS Wilmington, Ohio September 2019 Regional Climate Summary

Regional Climate Summary

September of 2019 will go down as one of the warmest and driest Septembers in recent memory across much of the region. In fact, for certain spots, it was the warmest September on record with many locations experiencing numerous days with high temperatures in the 80s and 90s. Moreover, the lack of rain enabled some portions of the region to go into moderate drought with much of the Ohio Valley becoming abnormally dry.

Temperatures

The first week and a half of the month featured temperatures that were near normal, from either a few degrees below normal to a few degrees above normal. Starting on the 10th, a several day stretch of much above normal temperatures began across the region with temperatures climbing into the 90s. This stretch lasted through the 13th.

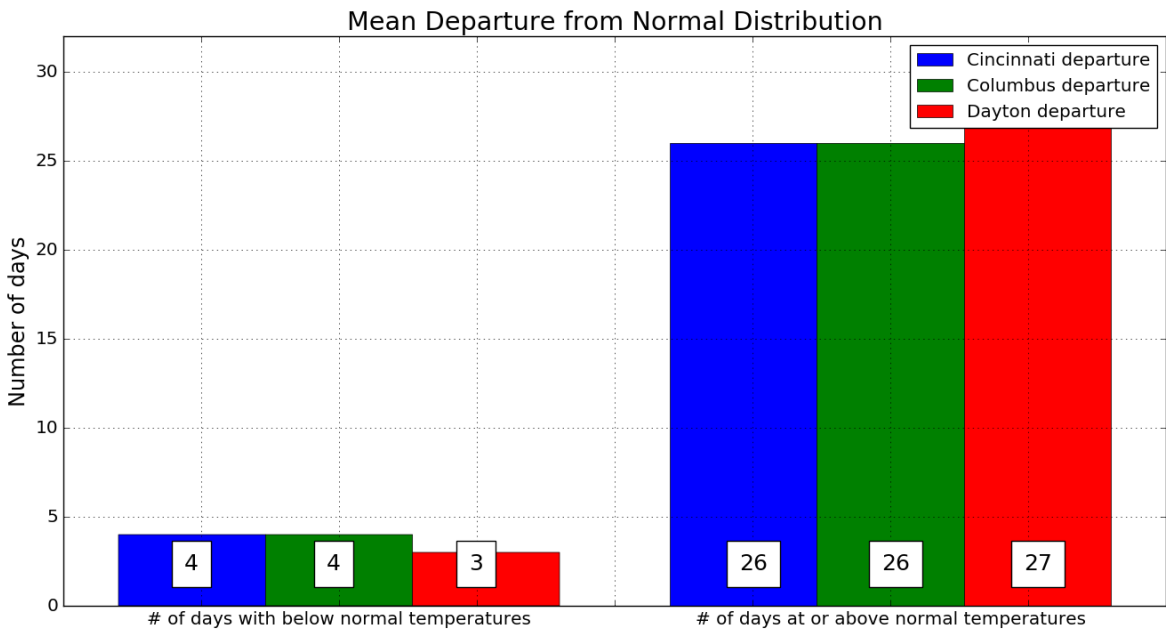
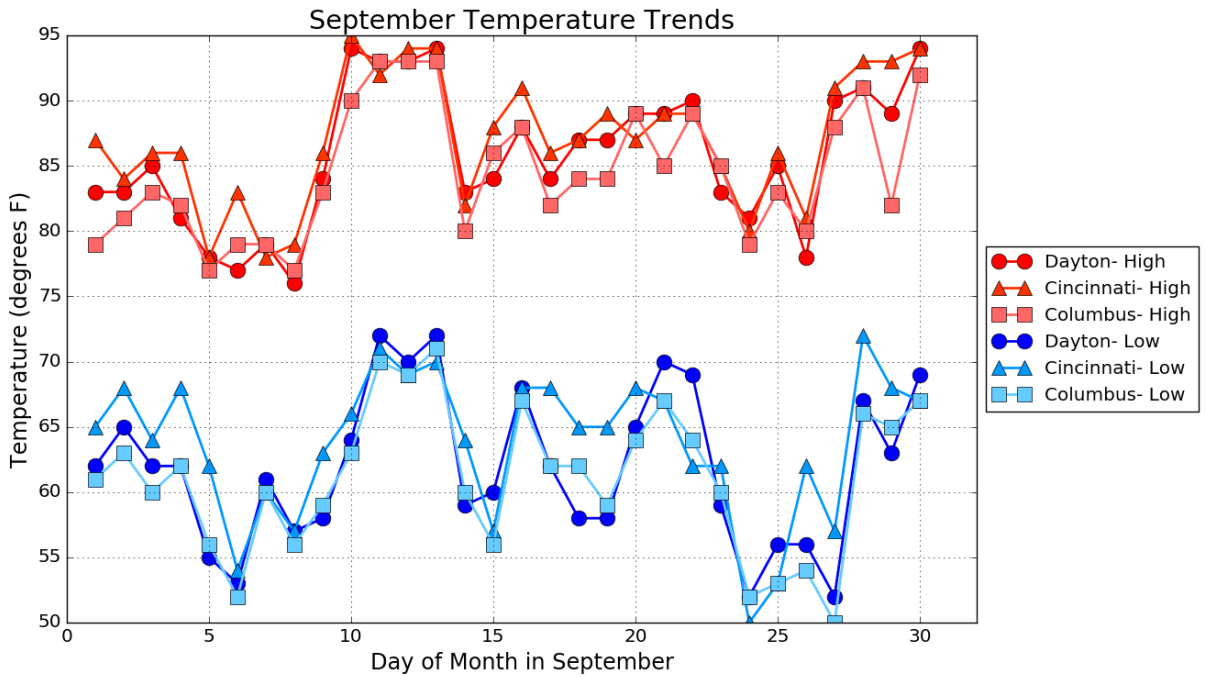
The low temperature at the Dayton on September 11th was 72 degrees. This tied the old high minimum temperature for the date that last occurred in 2013.

The story for the month was not only the unusually dry conditions but also the persistent and intensity of summer heat that lasted through pretty much the entire month. In fact, Dayton (DAY) had its warmest September on record (avg. temperature of 73.8°F) while both Cincinnati (CVG) and Columbus (CMH) recorded their 2nd warmest Septembers on record (75.4°F and 72.8°F, respectively). Numerous daily records were tied or set towards the end of the month as a record-breaking stretch of heat evolved through most of the eastern U.S. for the final few days of the month and even into the start of October. In fact, the temperature reached at least 90°F nine days in September at Cincinnati (CVG), the most in the month of September at the site since 2007 and the 2nd most dating all the way back to September of 1970. What made the weather pattern of September 2019 especially unique was the heat that evolved especially towards the very end of the month that resulted in daily average temperatures at were around 20 degrees above normal! Moreover, the high at Cincinnati (CVG) reached at least 78°F each day in the month, the first time that a sub-75°F high was not recorded in September on record. It also was the first September on record at Dayton (DAY) where the temperature did not fall below 50°F.

Site	Avg Temp (°F)	Avg High Temp (°F)	Avg Low Temp (°F)	Departure From Normal (°F)	Maximum Temperature (°F)	Minimum Temperature (°F)
Cincinnati (CVG)	75.4°F	87.1°F	63.7°F	+ 7.8°F	95°F (10 th)	50°F (24 th)
Columbus (CMH)	72.8°F	84.5°F	61.0°F	+ 6.0°F	93°F (12 th /13 th)	50°F (27 th)
Dayton (DAY)	73.8°F	85.7°F	61.9°F	+ 8.4°F	94°F (13 th /30 th)	52°F (24 th /27 th)



Temperatures (Continued)



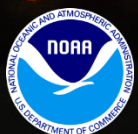
Precipitation

Although a few locations stayed dry, the month started out on a wet note for a large portion of the region on the 1st. The thunderstorms on the first not only produced some heavy rainfall in a short amount of time, it also led to damaging wind gusts and hail as large as 1.75 inches in central Ohio. Additional showers and thunderstorms moved through during the overnight hours of the 1st to the 2nd.

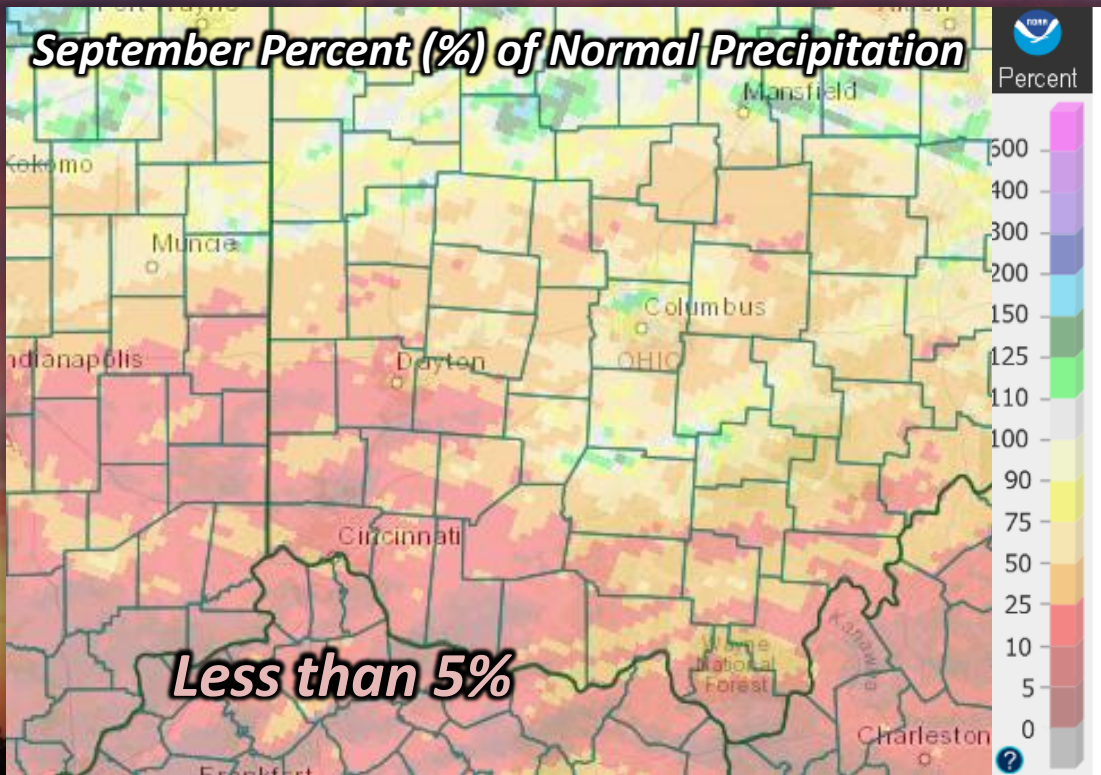
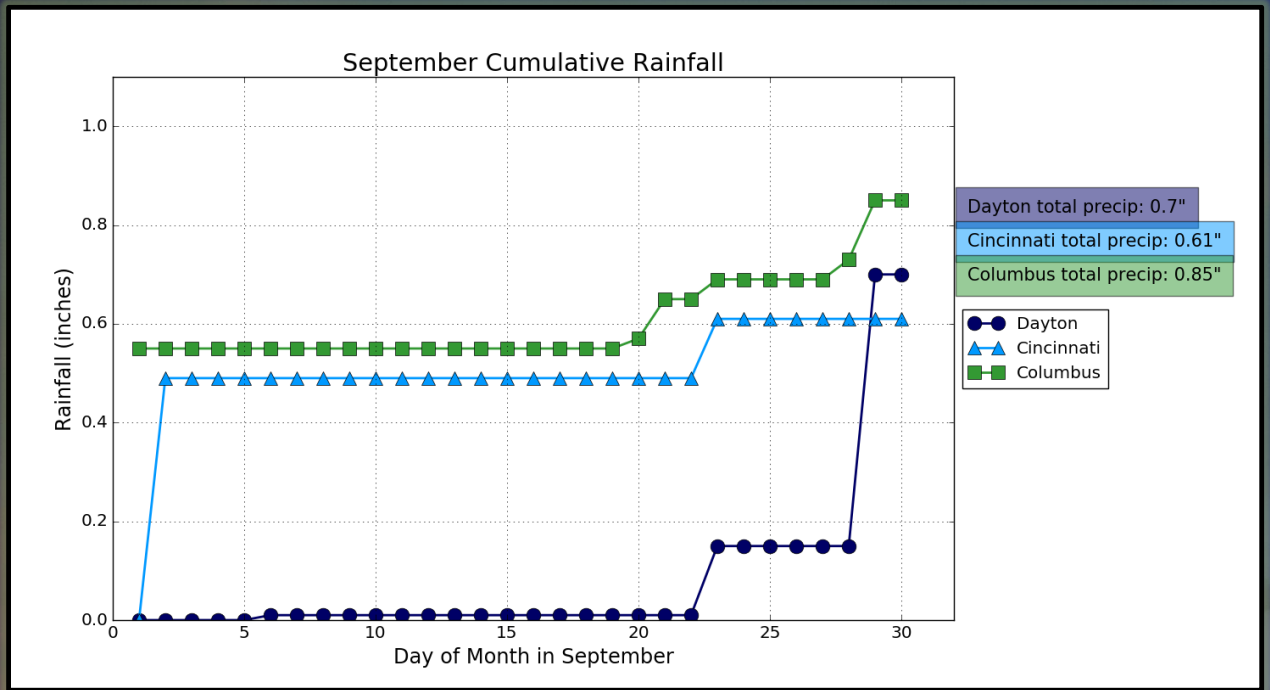
After this time, although there was some spotty generally light precipitation, most locations were relatively dry through the remainder of the month. In fact, the overall pattern yielded very few chances for widespread rain, with many locations stretching 2+ weeks without measurable precipitation through the middle of the month.

For the final week or so of September, there were several days that featured scattered showers and storms – especially north of the Ohio River. However, for locations near/south of the Ohio River, there was still very little rain to be had. In fact, only 2 of the 30 days featured measurable rain at Cincinnati (CVG), the fewest days with measurable rainfall in a month at the site since September of 1978.

Site	Total Precipitation (in.)	Departure From Normal (in.)	Max Daily Precipitation (in./date)		Total Snowfall (in.)	Max Daily Snowfall (in./date)	
Cincinnati (CVG)	0.61"	-2.02"	0.49"	09/02	--	--	--
Columbus (CMH)	0.85"	-1.99"	0.55"	09/01	--	--	--
Dayton (DAY)	0.70"	-2.60"	0.55"	09/29	--	--	--



Precipitation (Continued)

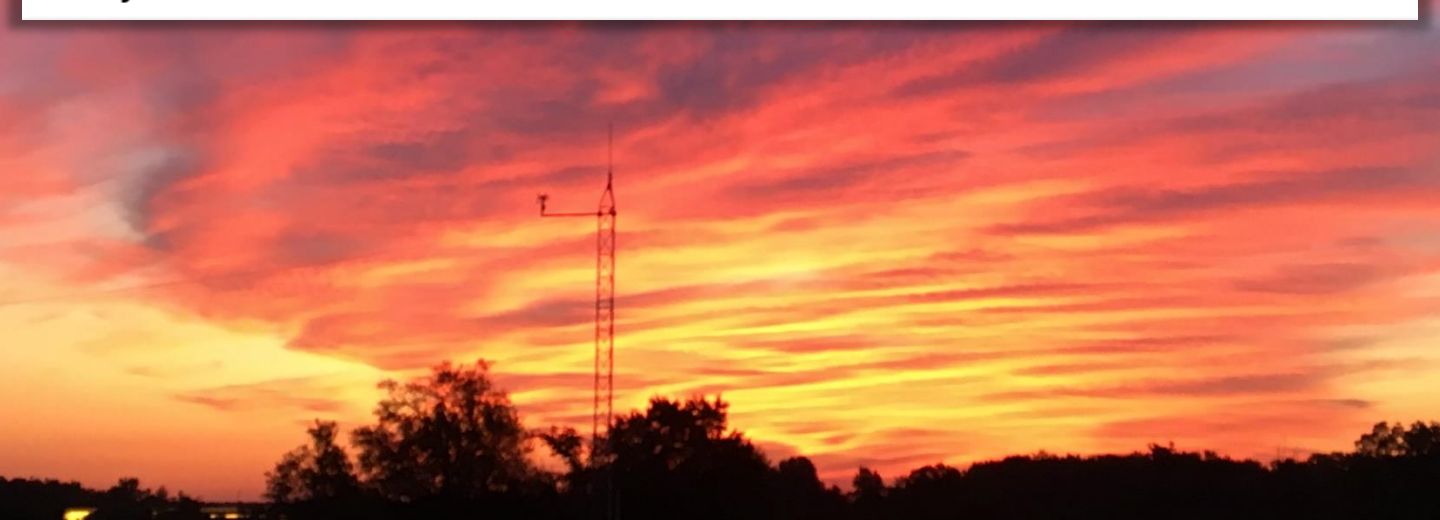


Monthly Notes

A September To Remember...

Monthly Recap of Various Extremes Observed In The Area

	September 2019	Longest/Warmest/ Fewest September Since...	Site September Rank
Cincinnati (CVG) Consecutive Dry Days	20	June 1994	T-18th longest in any month
Cincinnati (CVG) # Days Msrble. Precip	2	1978	2nd
Cincinnati (CVG) Avg. Temp.	75.4°F	1881	2nd (76.4°F 1881)
Columbus (CMH) Avg. Temp.	72.8°F	1881	2nd (74.6°F, 1881)
Dayton (DAY) Avg. Temp.	73.8°F	Period of Record Began	1st
Cincinnati (CVG) # Days High T >=85°F	22	Period of Record Began	1st
Cincinnati (CVG) # Days High T <75°F	0	Period of Record Began	1st
Columbus (CMH) # Days Avg T <65°F	0	Period of Record Began	1st
Dayton (DAY) # Days < 50°F	0	Period of Record Began	1st



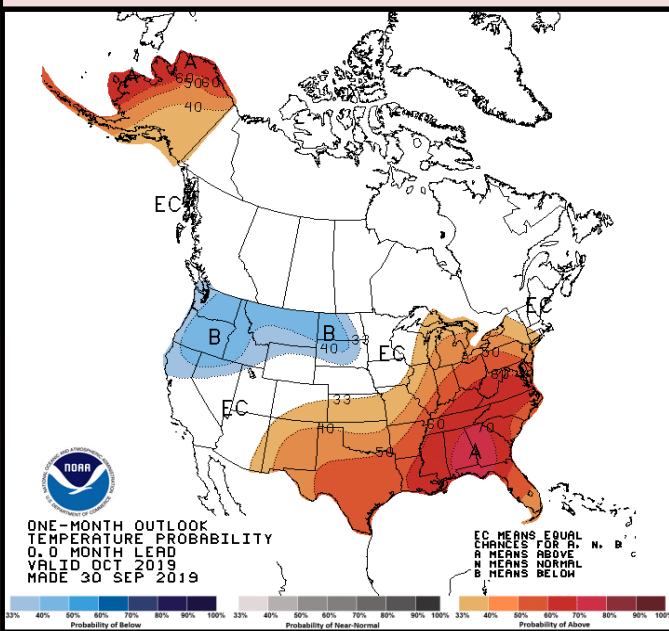
October Outlook

The latest outlook from the Climate Prediction Center (CPC) indicates favorable probabilities for above normal temperatures across much of the region with near normal precipitation throughout October.

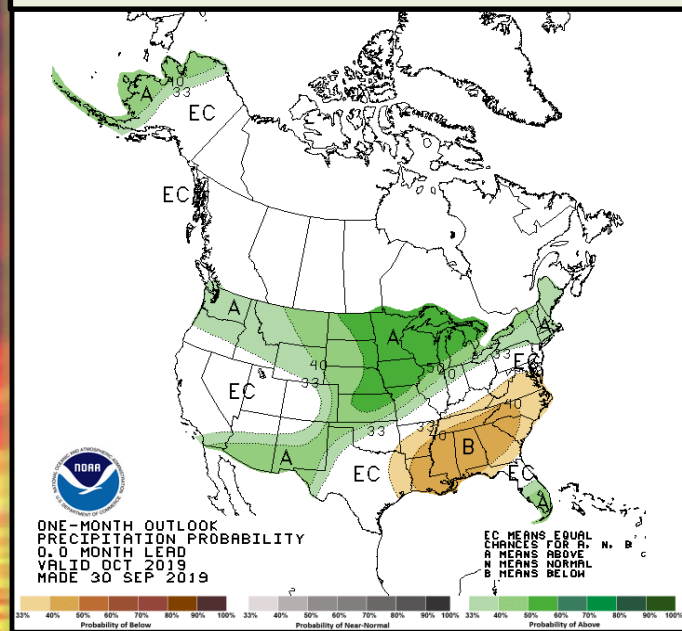
Site	Normal Avg Temp (°F)	Normal High (°F)	Normal Low (°F)
Cincinnati (CVG)	55.9°F	66.2°F	45.5°F
Columbus (CMH)	55.0°F	65.1°F	45.0°F
Dayton (DAY)	53.9°F	63.8°F	44.0°F

Site	Normal Precipitation (in.)	Normal Snowfall (in.)
Cincinnati (CVG)	3.30 in.	0.4 in.
Columbus (CMH)	2.61 in.	0.2 in.
Dayton (DAY)	2.93 in.	0.4 in.

Upcoming Temperature Outlook



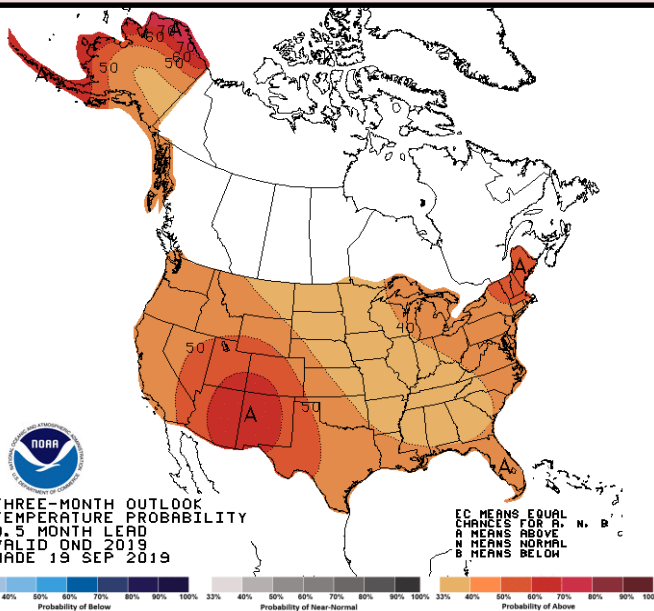
Upcoming Precipitation Outlook



October-December Outlook

The latest data from the Climate Prediction Center (CPC) indicates favorable probabilities for above normal temperatures through not only the entire Ohio Valley but pretty much the entire contiguous United States. There is not yet a clear signal for precipitation to be either below or above normal for the area during the three-month period of October through December.

Three-Month (OND) Temp. Outlook



Three-Month (OND) Precip. Outlook

