



# NWS Wilmington, Ohio January 2017 Regional Climate Summary

## Regional Climate Summary

***Most of January proved to be a warm month minus one cold outbreak that occurred in the first week of the month. All first order climate sites also had above normal precipitation for the month but with warmer temperatures snowfall proved difficult to come by.***

# Temperatures

*While the first couple of days of the new year were a bit mild and wet, a strong cold front moved through late on the 3<sup>rd</sup> into the 4<sup>th</sup>, ushering in much colder air to the Ohio Valley. In fact, arctic air settled into the Ohio Valley for the next several days, allowing for overnight lows to drop into the single digits and even below zero for some locations in the local area. The temperature at Dayton (DAY) did not get above 20°F for 4 consecutive days from the 5<sup>th</sup> through the 9<sup>th</sup>, the longest such stretch since February of 2007.*

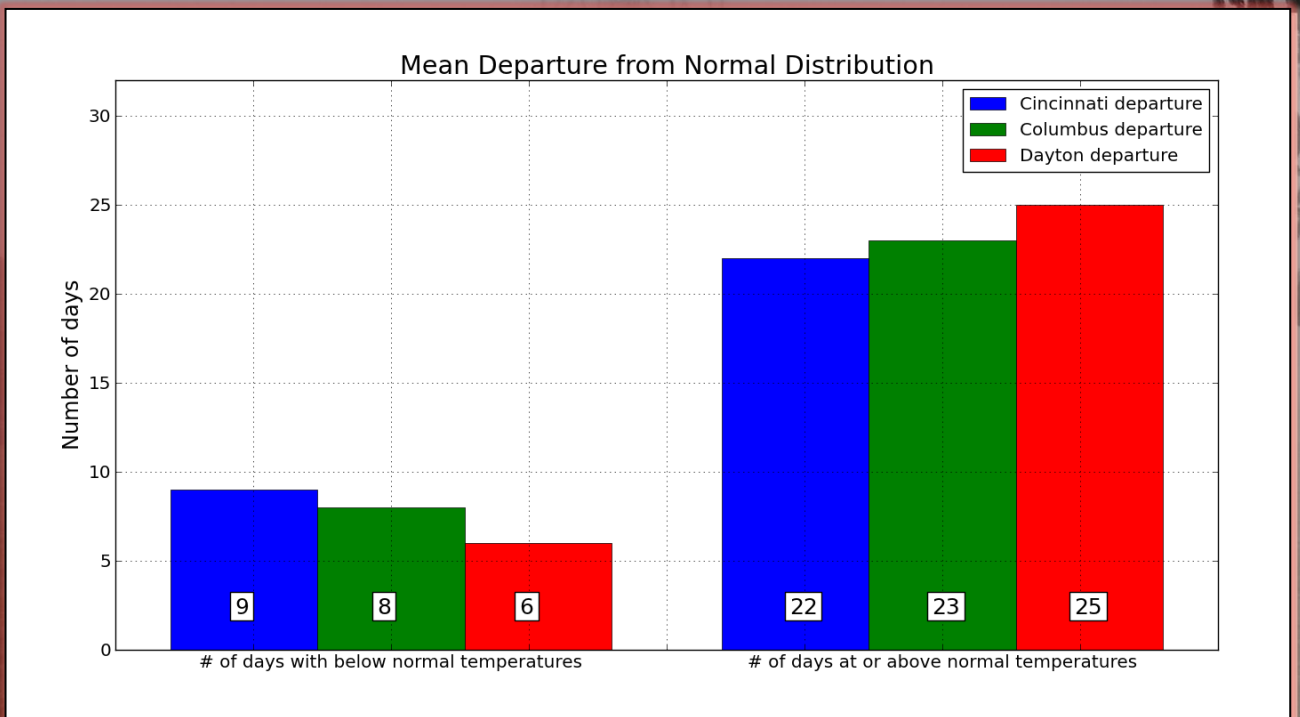
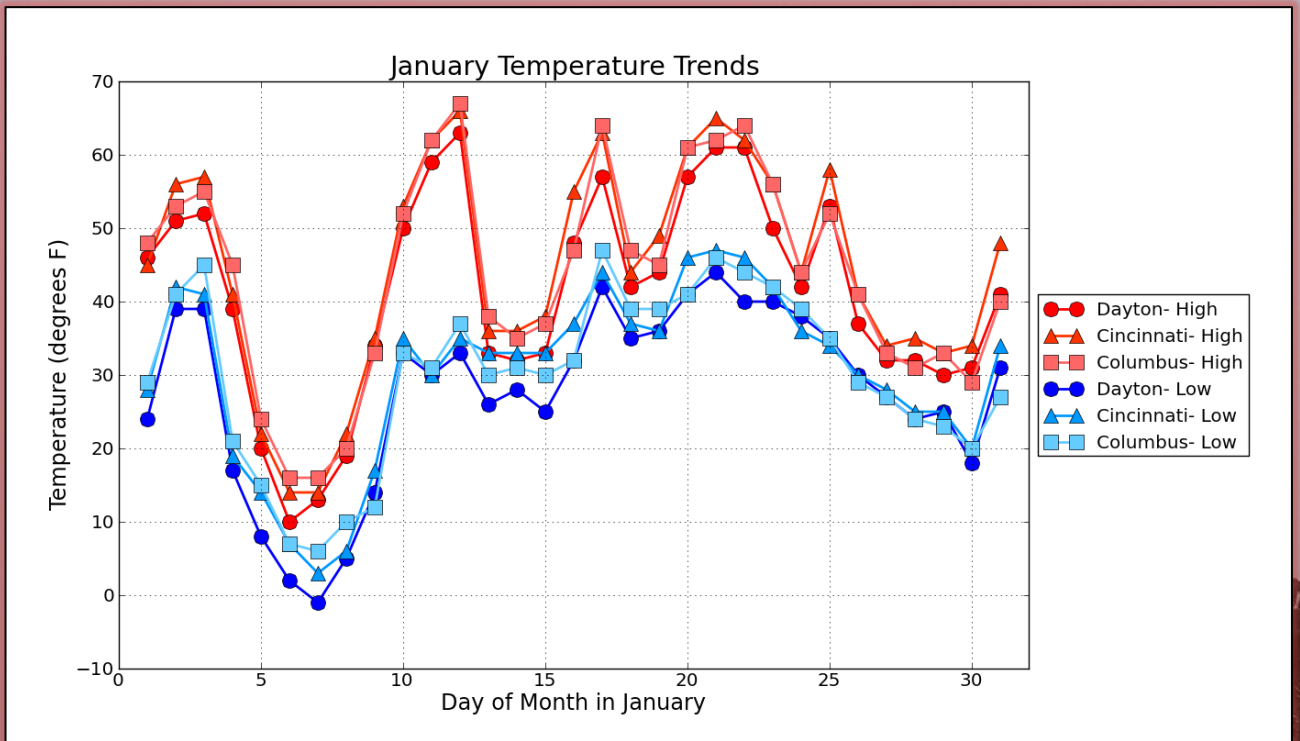
*After the cold spell, much warmer temperatures rapidly returned to the area past the 10<sup>th</sup> of January. In fact, record and near-record warmth built into the Ohio Valley by the 12<sup>th</sup>, with temperatures reaching into the mid to upper 60s across the area. Columbus (CMH) tied their daily record high temperature of 67°F on the 12<sup>th</sup> (originally set in 1916).*

*Although cooler temperatures briefly returned for the 13<sup>th</sup> through the 15<sup>th</sup>, another unusually warm pattern evolved past the middle of the month and persisted for two entire weeks. On January 17<sup>th</sup>, Cincinnati (CVG) tied a daily record high temperature of 63°F (1952). Meanwhile, Columbus broke the old record of 62 degrees (1952) with a high temperature of 64 degrees.*

Site	Avg Temp (°F)	Avg High Temp (°F)	Avg Low Temp (°F)	Departure From Normal (°F)	Maximum Temperature (°F)	Minimum Temperature (°F)
Cincinnati (CVG)	37.5	44.5	30.4	+6.7	66	3
Columbus (CMH)	36.8	43.6	30.1	+7.2	67	6
Dayton (DAY)	34.4	41.0	27.7	+6.9	63	-1



# Temperatures (Continued)



# Precipitation

A strong cold front moved through late on the 3<sup>rd</sup> of the month, bringing widespread soaking rain to the region (amount generally between ½ and 1 inch). As a cold pattern evolved over the following several days, snow moved into the area on the 5<sup>th</sup>. Cincinnati (CVG) recorded 2.5” of snow on the 5<sup>th</sup>, while Dayton and Columbus both recorded about 1 inch of snow.

Past the 10<sup>th</sup> of January, as a warmer pattern evolved for the region, so too did a wetter pattern. A frontal boundary oscillated about the region as several weak disturbances moved through the Ohio Valley in the following several days. Running precipitation totals quickly trended above normal through the middle of the month but with temperatures above normal snowfall quickly fell behind for January.

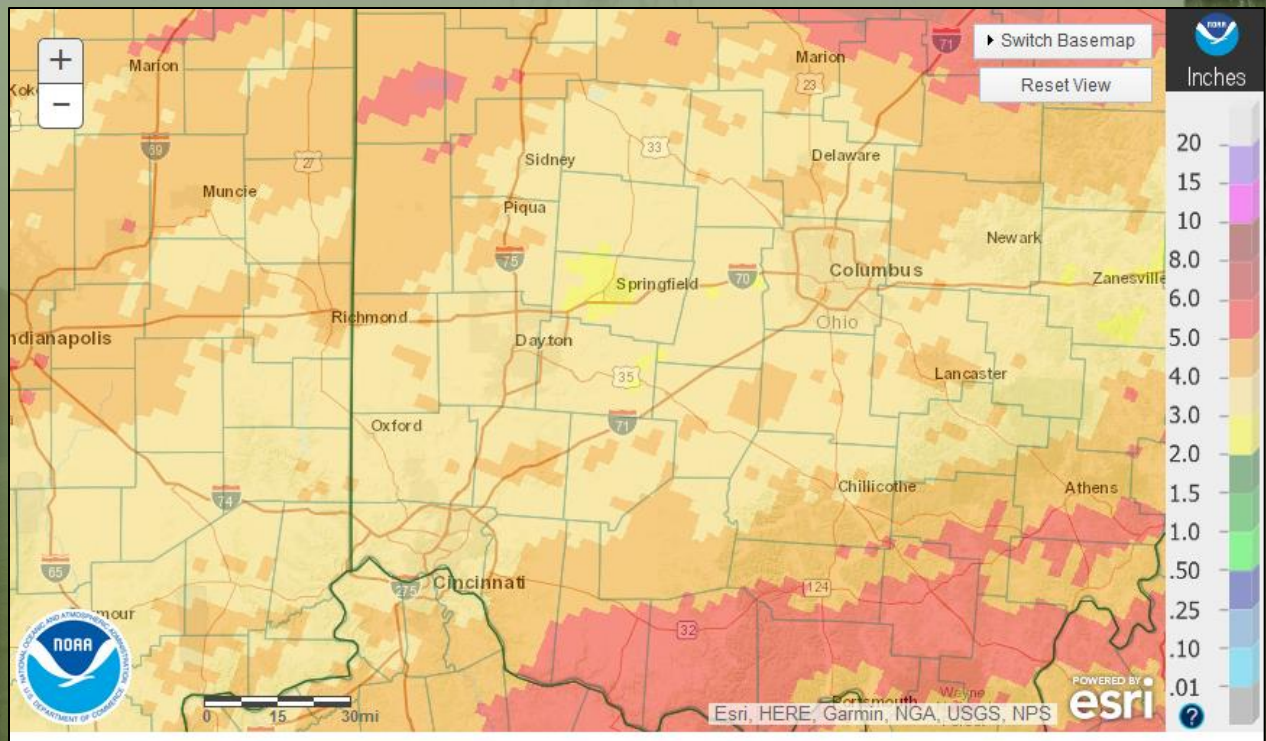
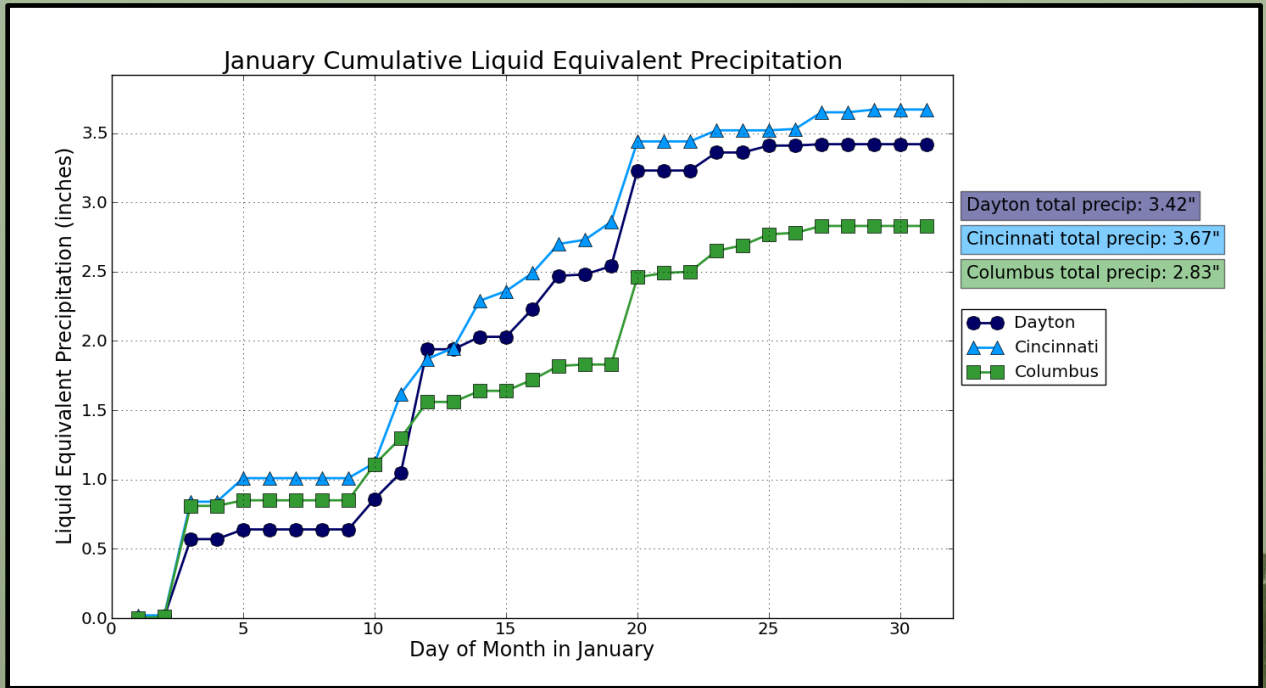
For the month of January even though snowfall was below normal none of the first order climate sites made the top 10 least snowiest for January. CMH ranked 17<sup>th</sup> least snowiest while CVG ranked 49<sup>th</sup> least snowiest and DAY ranked 21<sup>st</sup> least snowiest January all time.

Site	Total Precipitation (in.)	Departure From Normal (in.)	Max Daily Precipitation (in./date)		Total Snowfall (in.)	Departure From Normal (in.)	Max Daily Snowfall (in./date)	
Cincinnati (CVG)	3.67	+0.67	0.82	3rd	4.2	-2.3	2.5	5th
Columbus (CMH)	2.83	+0.10	0.80	3rd	1.6	-7.6	0.9	5th
Dayton (DAY)	3.42	+0.71	1.08	12th	1.9	-6.0	1.1	5th



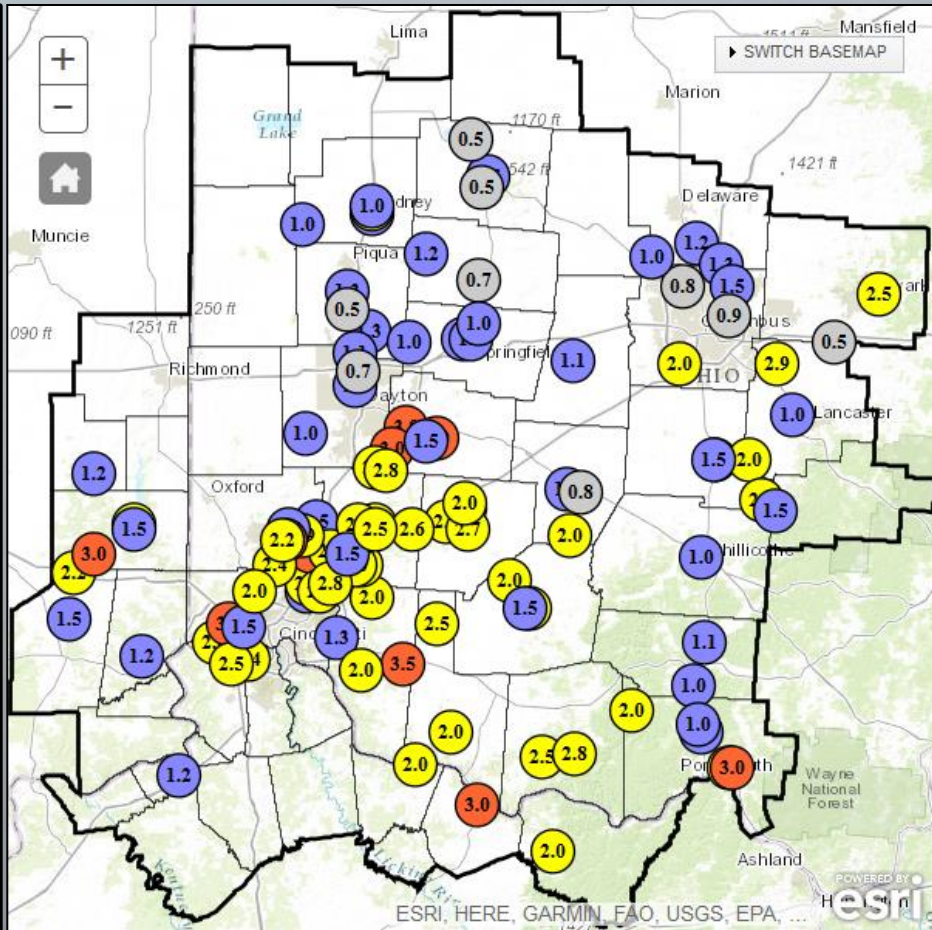


# Precipitation (Continued)



# Winter Weather

The highest snowfall total in Cincinnati, Columbus, and Dayton for the month of January occurred on the 5<sup>th</sup>. The map to the right shows the snowfall reports from the event. The photo to the right below shows the snowfall at the Wilmington, Ohio NWS office after 1.9 inches of snow. The office received 2.7 inches of snow total for the event. Overall, snowfall was well below normal for January across the area. KCVG was 2.3 in. below normal for snowfall, KCMH 7.6 in. below, and KDAY was 6.0 in. below normal for the month.

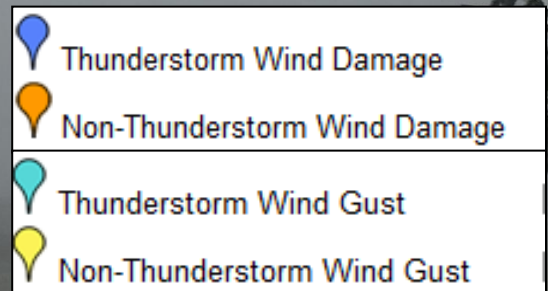
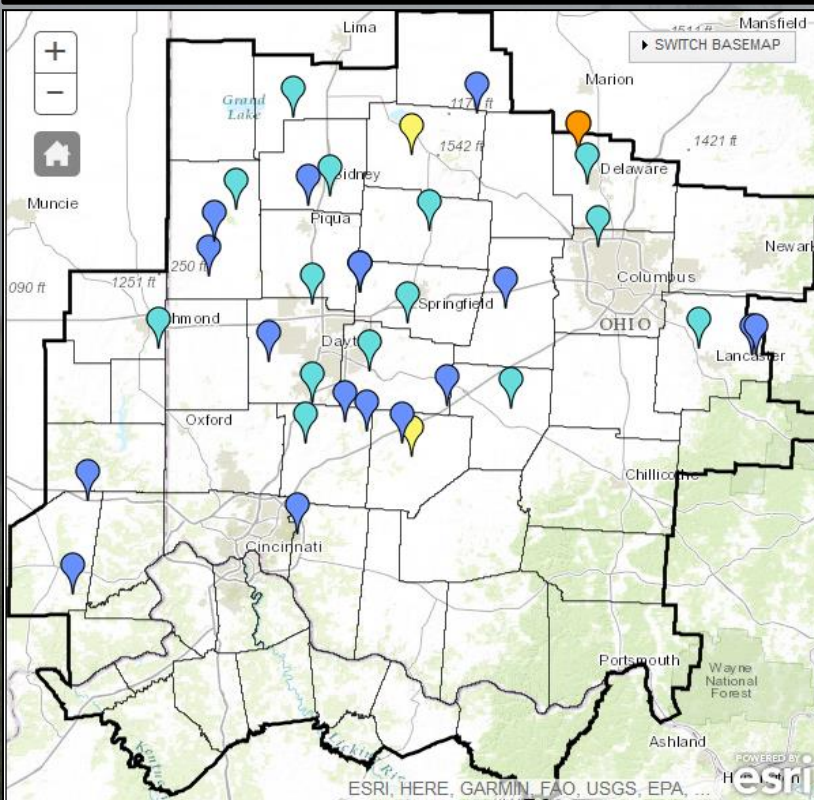




# Severe Weather

While much of the severe weather in January was focused across the southern United States, one severe weather event did occur in the area on the 10<sup>th</sup> of January. With this event a surface low moved northeast through the Great Lakes and a cold front moved into the Ohio Valley south of the surface low. Deep and strong southerly flow ahead of the front caused wind advisory level winds.

There was some instability just ahead of the front. Convection developed over Indiana and moved eastward. In the vicinity of the convection even stronger wind gusts began to occur. Several reports of wind damage were reported. The storms weakened as they moved southeast of I-71.



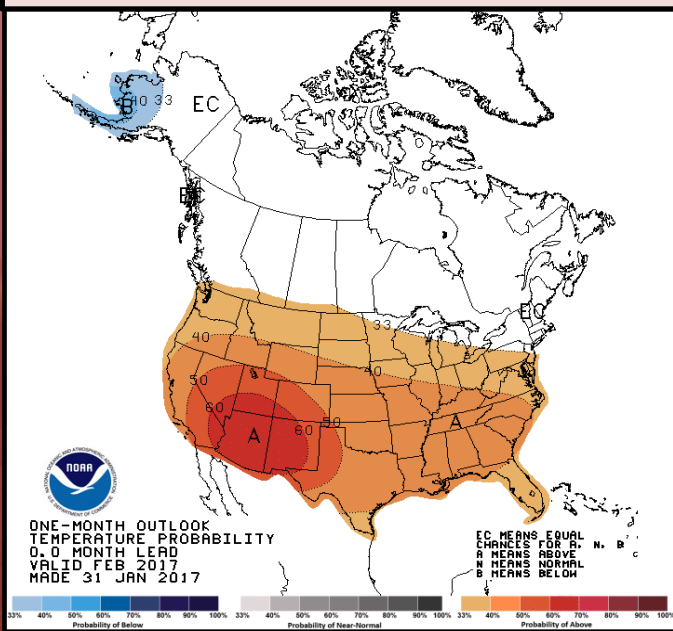
# February Outlook

The latest outlook from the Climate Prediction Center calls for an increased likelihood of above normal temperatures and above normal precipitation for February.

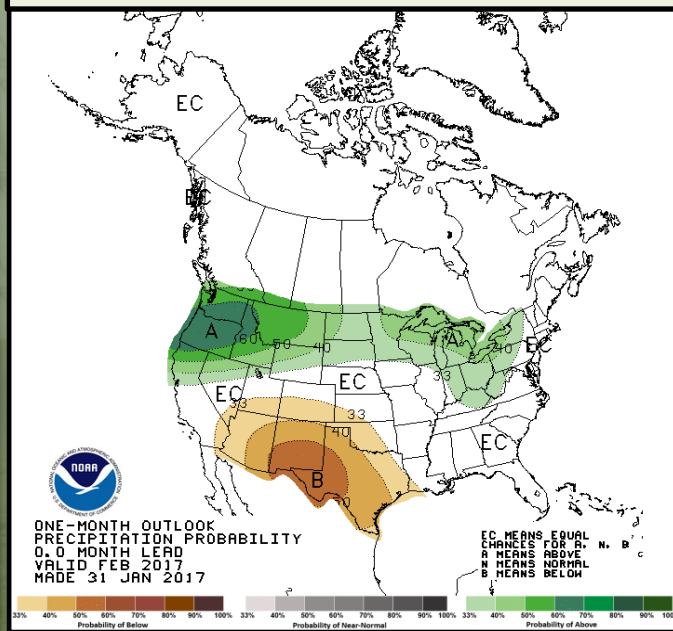
Site	Normal Avg Temp (°F)	Normal High (°F)	Normal Low (°F)
Cincinnati (CVG)	34.5°F	42.9°F	26.0°F
Columbus (CMH)	32.8°F	40.6°F	25.0°F
Dayton (DAY)	31.0°F	38.9°F	23.1°F

Site	Normal Precipitation (in.)	Normal Snowfall (in.)
Cincinnati (CVG)	2.81"	6.5"
Columbus (CMH)	2.25"	6.1"
Dayton (DAY)	2.24"	5.9"

## Upcoming Temperature Outlook



## Upcoming Precipitation Outlook



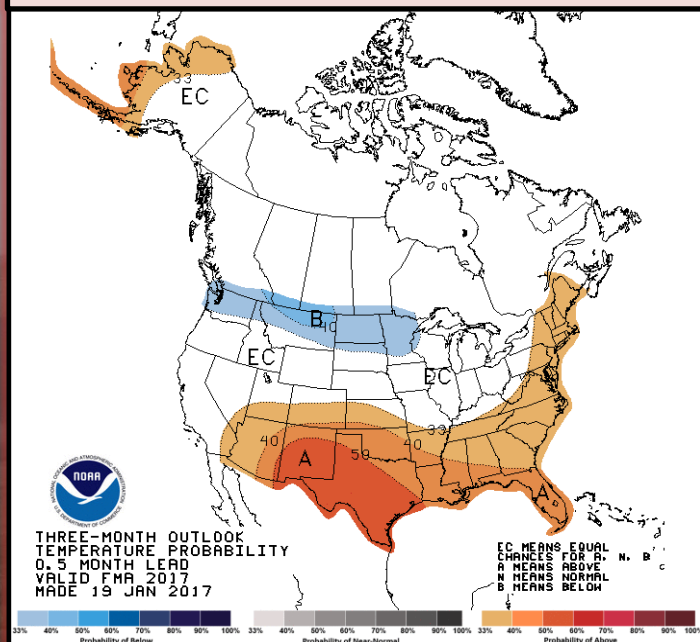


# Spring Outlook

A transition to ENSO-neutral conditions from La Niña is expected with ENSO-neutral conditions then continuing through the first half of 2017.

The spring outlook calls for equal chances of below normal, normal, and above normal temperatures. Precipitation is slightly favored to be above normal for the February, March, and April time period.

### Three-Month (FMA) Temp. Outlook



### Three-Month (FMA) Precip. Outlook

