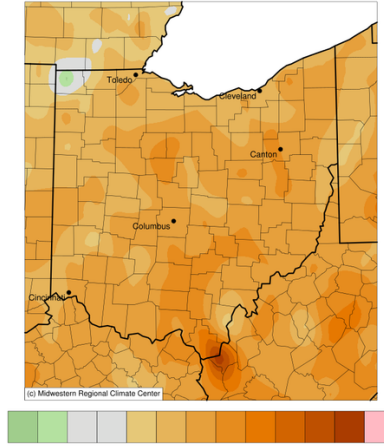


## Ohio Quarterly Climate Summary: Sep-Nov 2018

### Temperature Summary:

- The 2018 autumn season ranks as the 35<sup>th</sup> warmest in Ohio since 1895\*. September 2018 ranks as the warmest September on record.
- Temperatures averaged 1 to 5°F above normal across the state, with the largest differences across the south-central counties (Fig. 1).
- November 2018 ranks as the 24<sup>th</sup> coldest November since 1895 (Fig. 2).

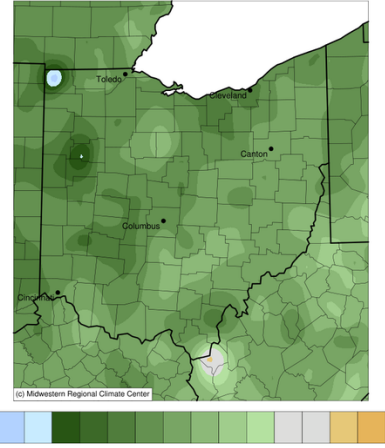
Average Temperature (°F): Departure from 1981-2010 Normals  
September 01, 2018 to October 31, 2018



Stations from the following networks used: WBAN, COOP, FAA, GHCN, ThreadEx, CoCoRaHS, WMO, ICAO, NWSLI, Midwestern Regional Climate Center  
cli-MATE: MRCC Application Tools Environment  
Generated at: 1/6/2019 3:24:15 PM CST

Figure 1

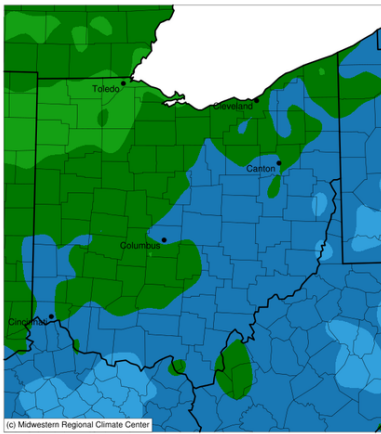
Average Temperature (°F): Departure from 1981-2010 Normals  
November 01, 2018 to November 30, 2018



Stations from the following networks used: WBAN, COOP, FAA, GHCN, ThreadEx, CoCoRaHS, WMO, ICAO, NWSLI, Midwestern Regional Climate Center  
cli-MATE: MRCC Application Tools Environment  
Generated at: 1/6/2019 3:25:51 PM CST

Figure 2

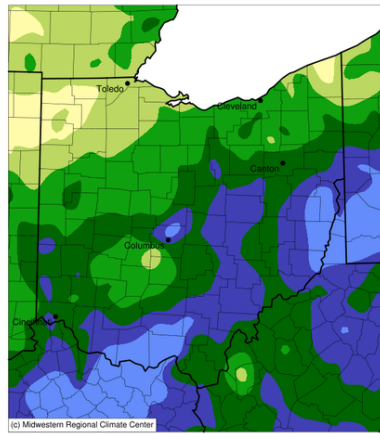
Accumulated Precipitation (in)  
September 01, 2018 to November 30, 2018



Stations from the following networks used: WBAN, COOP, FAA, GHCN, ThreadEx, CoCoRaHS, WMO, ICAO, NWSLI, Midwestern Regional Climate Center  
cli-MATE: MRCC Application Tools Environment  
Generated at: 1/6/2019 3:27:58 PM CST

Figure 3

Accumulated Precipitation (in): Percent of 1981-2010 Normals  
September 01, 2018 to November 30, 2018



Stations from the following networks used: WBAN, COOP, FAA, GHCN, ThreadEx, CoCoRaHS, WMO, ICAO, NWSLI, Midwestern Regional Climate Center  
cli-MATE: MRCC Application Tools Environment  
Generated at: 1/6/2019 3:29:01 PM CST

Figure 4

### Precipitation Summary:

- Autumn 2018 precipitation was well above average and ranks as the 3<sup>rd</sup> wettest since 1895\*.
- Widespread totals of 15-20" fell across the southern and eastern counties with lighter amounts (7.5-15") across the northwest (Fig. 3).
- A few pockets received slightly less than normal rainfall for the three-month period (yellow-shading; Fig. 4).

\*Regional summary provided by NOAA: <https://www.drought.gov/drought/documents/quarterly-climate-impacts-and-outlook-midwest-region-june-2018>.  
\*Maps provided by cli-MATE, Midwestern Regional Climate Center, Illinois State Water Survey, Prairie Research Institute, University of Illinois at Urbana-Champaign, <http://mrcc.illinois.edu/CLIMATE>.

# Ohio Quarterly Climate Summary: Sep-Nov 2018

## Hot Topic Corner:

- The remnants of Tropical Storm Gordon moved through on September 8-10, dropping widespread 4-8" rainfall amounts (Fig. 5). The remnants of Hurricane Florence would later drop another 2-3" across the southeast counties.
- Harvest season got off to a great start, with warm and drier conditions in October.
- The cold, wet November halted harvest, with many producers still working well into the new year to harvest 2018 crops.

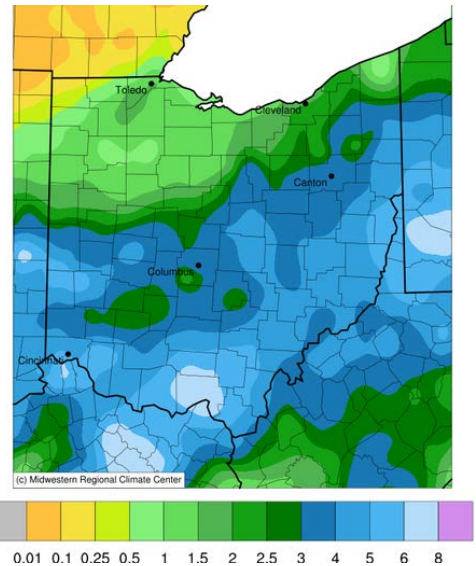


Figure 5: Rainfall from the remnants of Tropical Storm Gordon, September 8-10, 2018.

National Weather Service  
Central Region Climate Outlook

### Dec 2018 – Feb 2019

Friday, November 16, 2018 4:14 AM

✓

**Important Messages:**

- ✓ ENSO neutral conditions remain across the Tropical Pacific, but the odds have increased to an 85% chance of an El Niño developing in the DJF period as warm subsurface waters are continuing to expand eastward.
- A weak El Niño remains the most likely scenario this winter, with classic El Niño relationships expected to be heavily impacted by other teleconnection patterns such as the Arctic Oscillation (AO) and Madden-Julian Oscillation (MJO).

**December 2018 Temperature & Precipitation Outlooks**

- Above normal temperatures are favored across the far western portions of Central Region during the month of December as a strong -AO and the MJO are expected to have an impact over the first half of the month. There is some indication for the patterns to flip over the second half of December. The Great Lakes Region has the highest potential for below normal temperatures next month.
- For December, El Niño has a good signal for an increased dry potential from the Ozarks to the SE Great Lakes region. This signal should be enhanced by a strong -AO this December. The western portions of the region could see some upslope enhanced precipitation next month with the remainder of Central Region in an area of equal chances for above, near or below normal precipitation.

One-Month Temperature Outlook  
December 2018

One-Month Precipitation Outlook  
December 2018

**December through February Temperature & Precipitation Outlooks**

- Above normal temperatures are favored across all but the southeastern portions of Central Region this winter. This is supported by ensemble model forecasts with the expanded area of above, near or below normal temperatures across the southeastern US supported by a typical ENSO signal as well as the potential continuation of the -AO.
- Below normal precipitation is forecast for the Great Lakes region into the Ohio River Valley over the next 3 months. Above normal precipitation extends from the southwest and southern plains into Colorado and parts of southwestern Kansas and southern Wyoming. This is largely based on model guidance and an expect wet southern jet stream associated with typical El Niño conditions.

Three-Month Temperature Outlook  
Dec-Feb 2019

Three-Month Precipitation Outlook  
Dec-Feb 2019

**Seasonal Drought Outlook**

U.S. Seasonal Drought Outlook  
December 2018 through February 2019

Status quo is expected for much of Central Region. Some improvement remains possible near the four corners region of Colorado where increased precipitation associated with El Niño could provide some relief. A few small pockets of drought elsewhere across the region look to persist.

**Building a Weather-Ready Nation**

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## Outlook:

- The Climate Prediction Center depicts an **elevated probability (>33%) of above average temperatures** across NW Ohio for December through February (DJF; Fig. 6).
- The precipitation outlook calls for a **slightly elevated chance (>33%) of below average precipitation** (Fig. 6).

Figure 6

