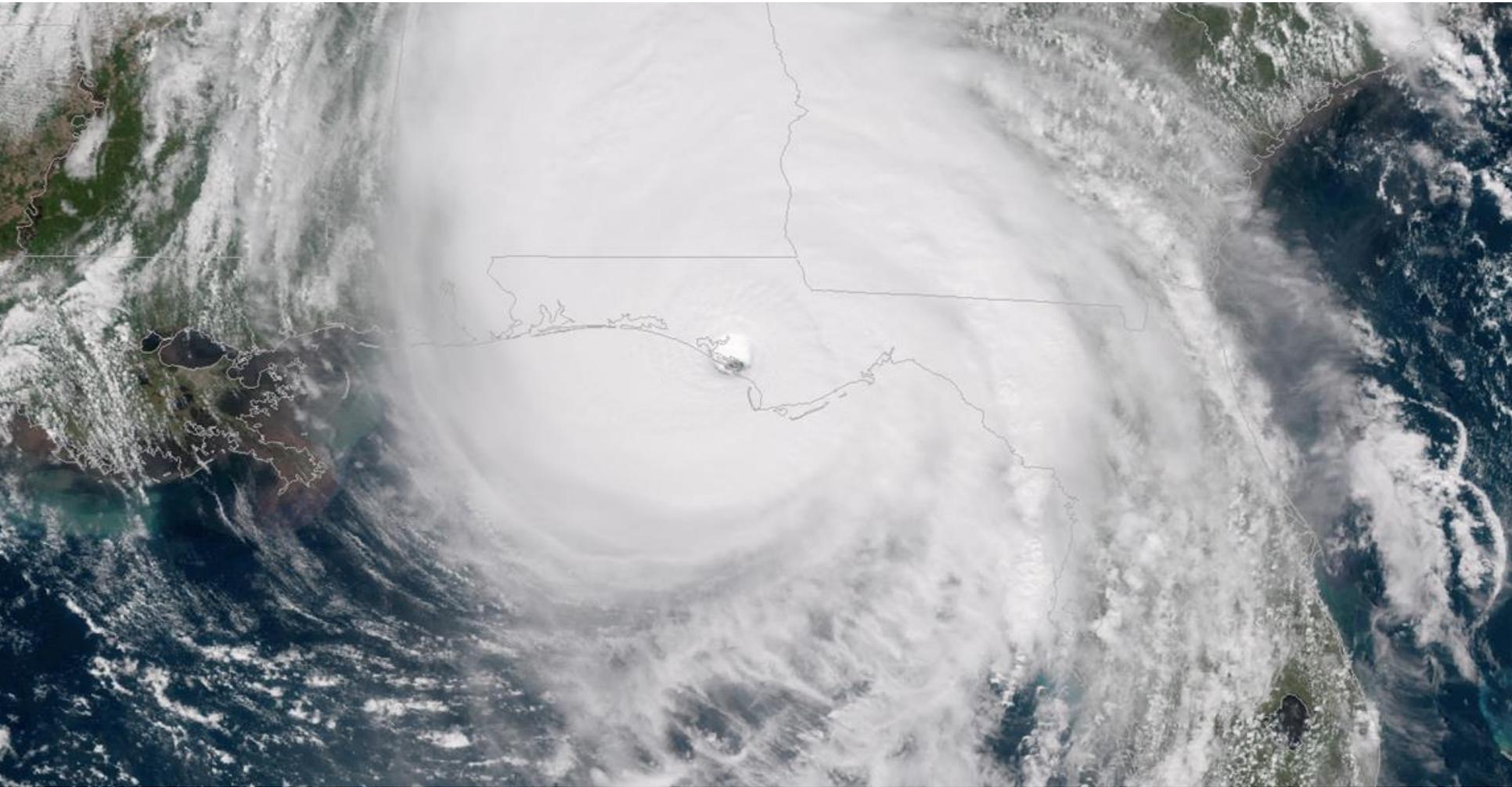


# Hydrologic and Climate Assessment

October 12, 2018



**Aaron B. Wilson**

**STATE CLIMATE OFFICE OF OHIO (SCOO)**

DEPARTMENT OF EXTENSION - CFAES

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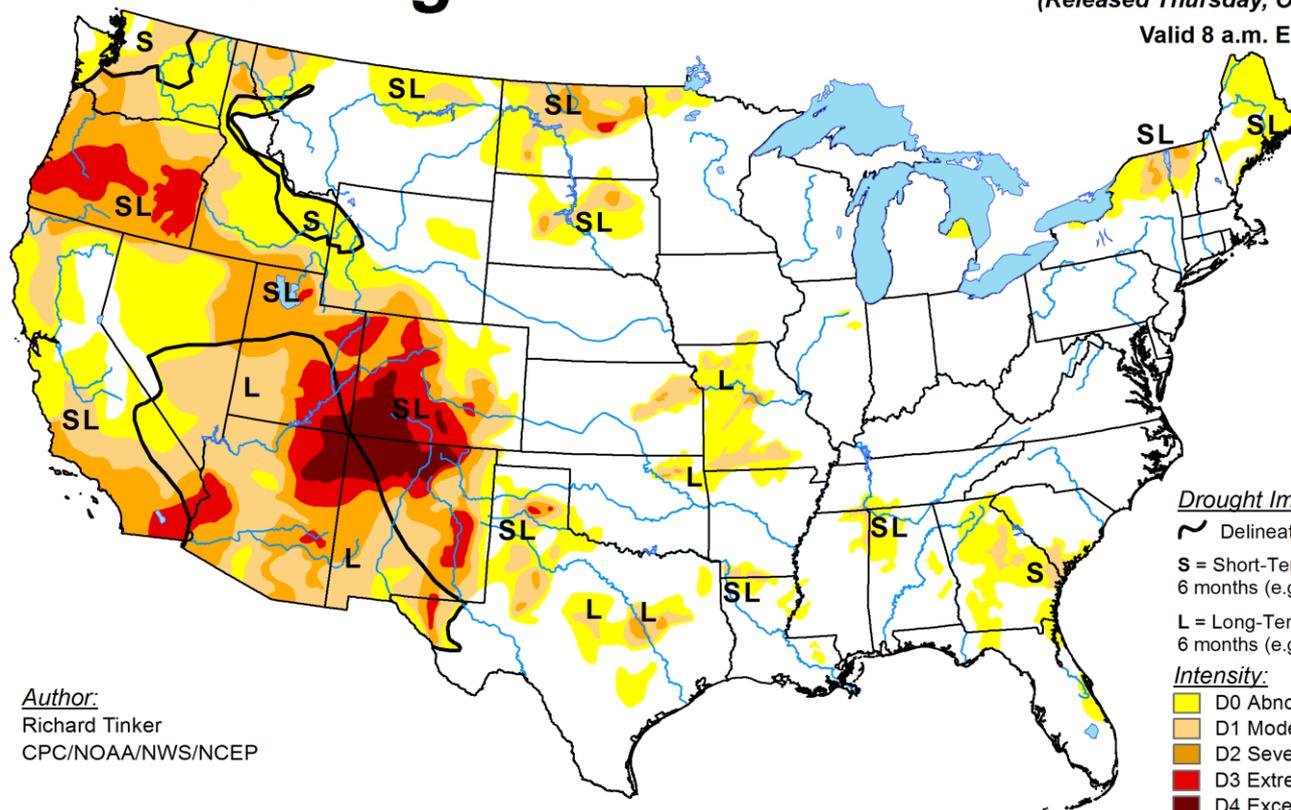
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# U.S. Drought Monitor

October 9, 2018

(Released Thursday, Oct. 11, 2018)

Valid 8 a.m. EDT



Author:  
Richard Tinker  
CPC/NOAA/NWS/NCEP

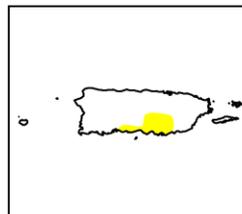
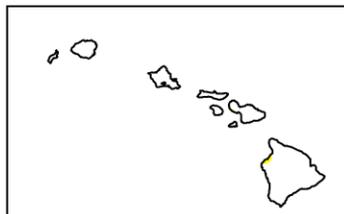
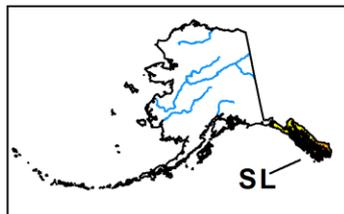
Drought Impact Types:

- ~ Delineates dominant impacts
- S = Short-Term, typically less than 6 months (e.g. agriculture, grasslands)
- L = Long-Term, typically greater than 6 months (e.g. hydrology, ecology)

Intensity:

- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.



<http://droughtmonitor.unl.edu/>



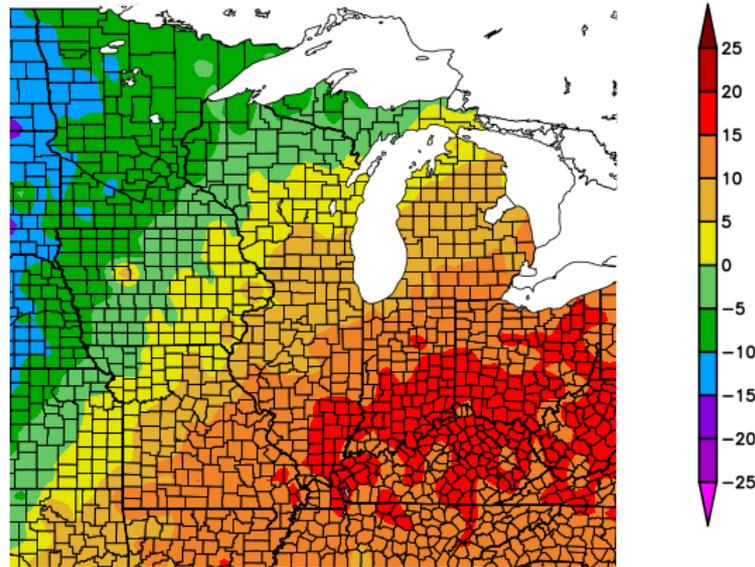
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# Temperature Differences Compared to Average (1981-2010)

7-Day

Departure from Normal Temperature (F)  
10/5/2018 - 10/11/2018



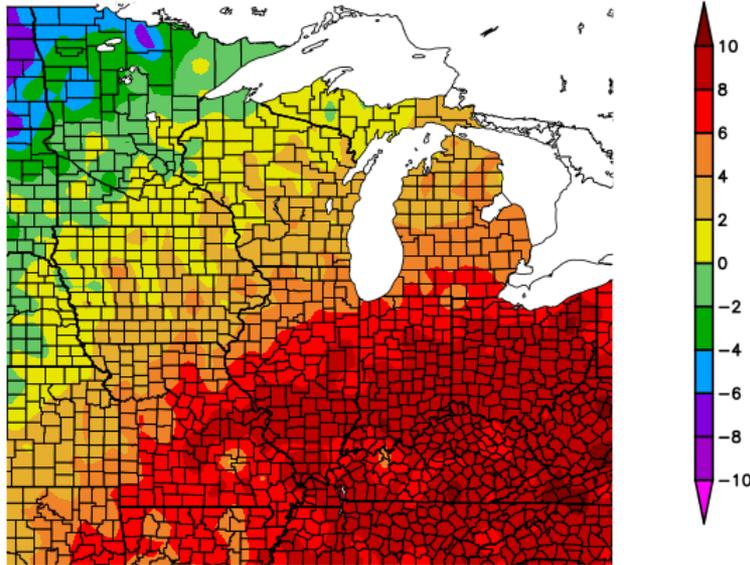
Generated 10/12/2018 at HPRCC using provisional data.

NOAA Regional Climate Centers

# Temperature Differences Compared to Average (1981-2010)

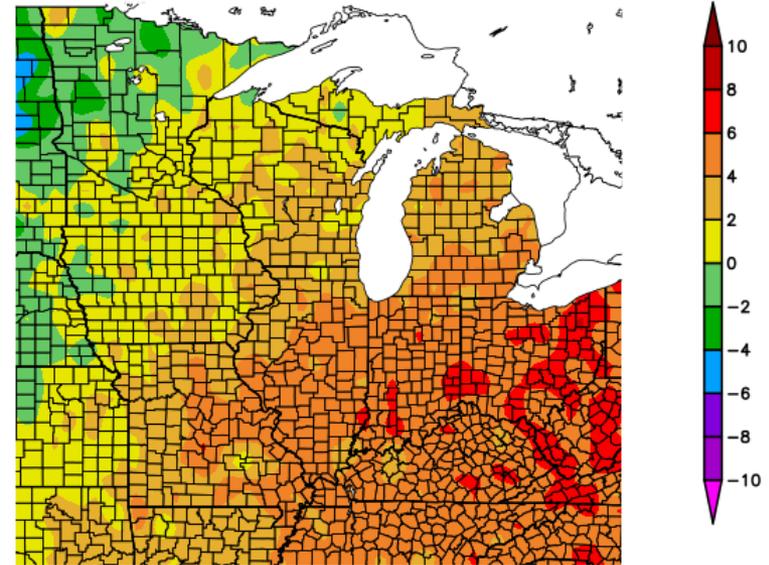
## 30-Day

Departure from Normal Temperature (F)  
9/12/2018 – 10/11/2018



## 60-Day

Departure from Normal Temperature (F)  
8/13/2018 – 10/11/2018



Generated 10/12/2018 at HPRCC using provisional data.

NOAA Regional Climate Centers Generated 10/12/2018 at HPRCC using provisional data.

NOAA Regional Climate Centers

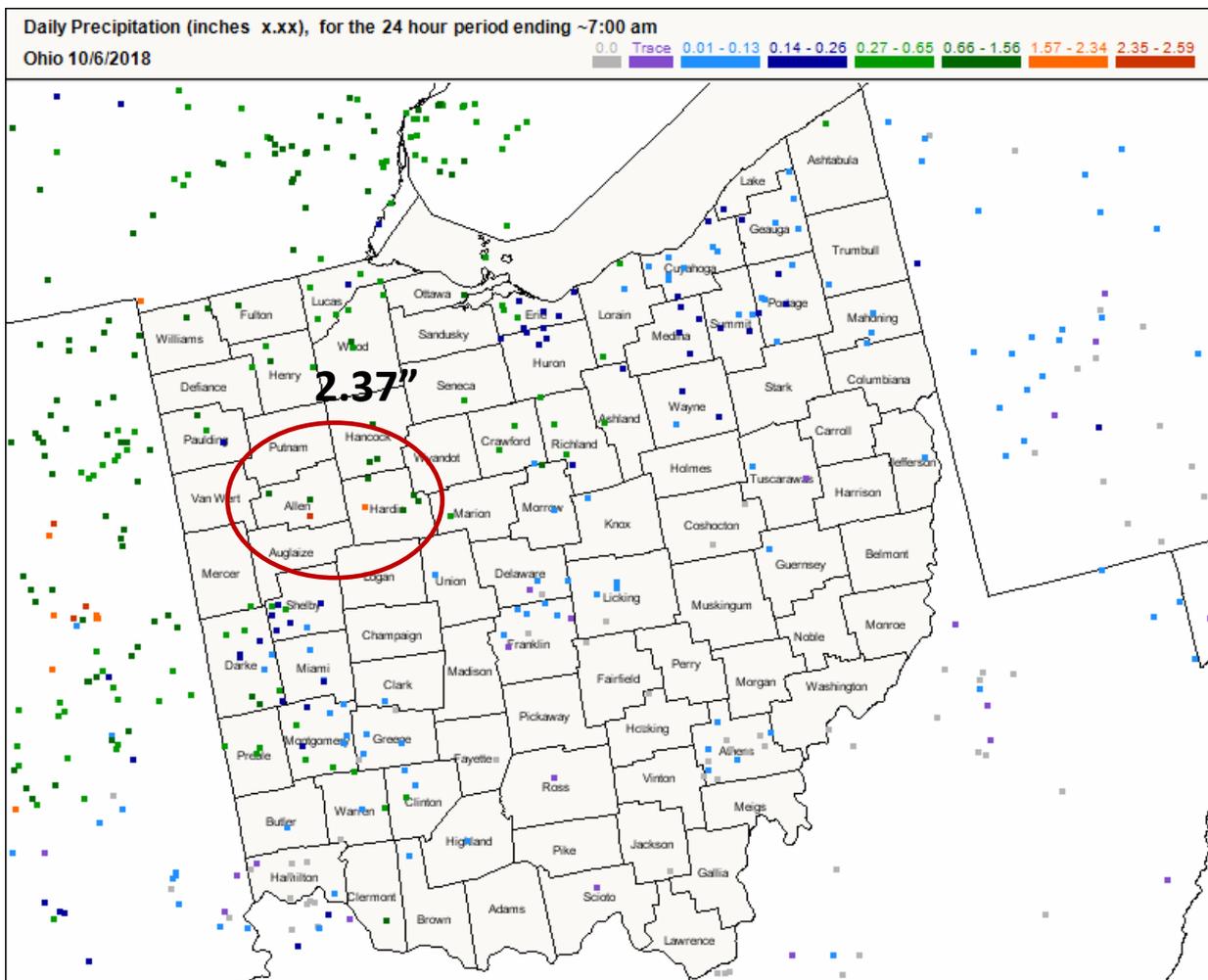


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# CoCoRaHS Observed Precipitation:

<http://cocorahs.com/>

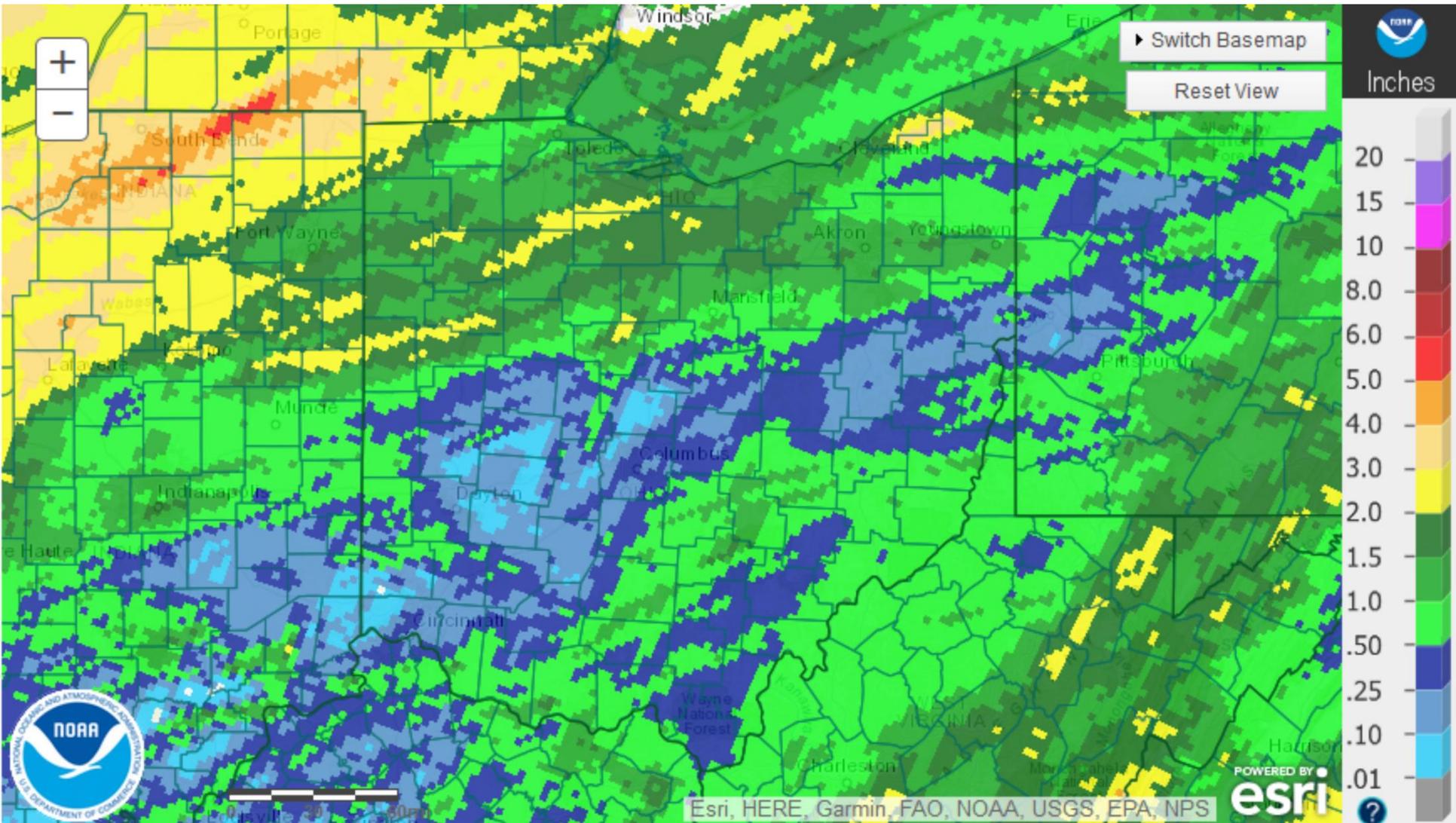
## October 6



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# Previous 7-Day Precipitation: Total



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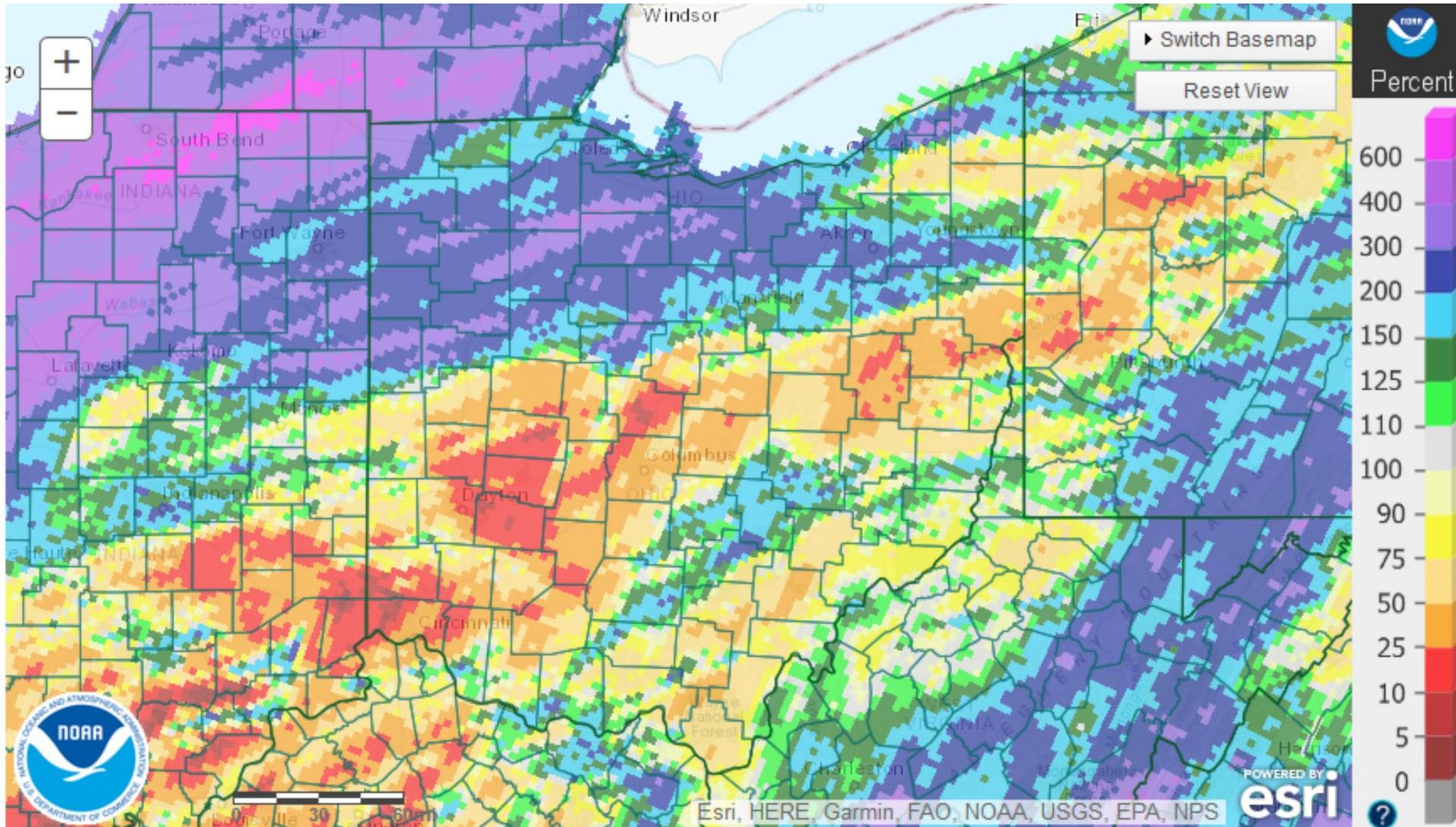
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# Previous 7-Day Precipitation: Percent of Normal



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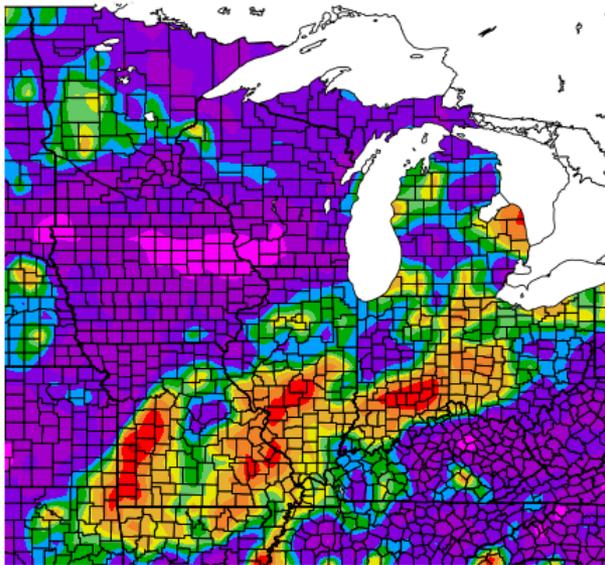


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# Precipitation Differences Compared to Average (1981-2010)

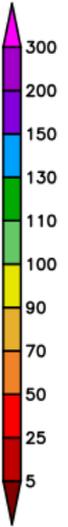
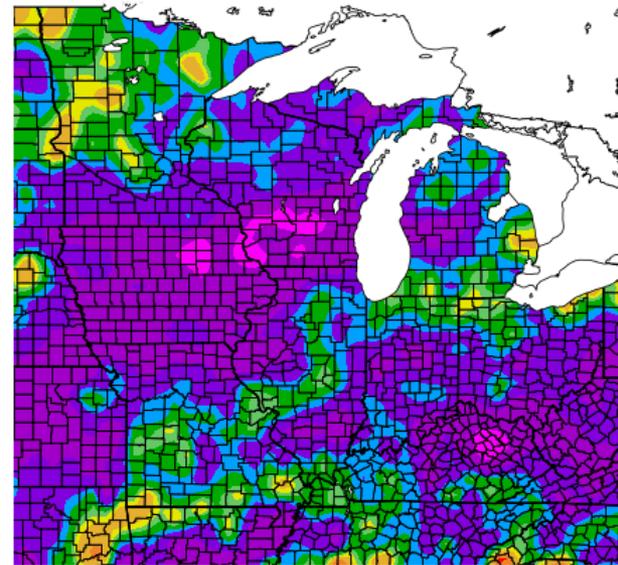
## 30-Day

Percent of Normal Precipitation (%)  
9/12/2018 – 10/11/2018



## 60-Day

Percent of Normal Precipitation (%)  
8/13/2018 – 10/11/2018



Generated 10/12/2018 at HPRCC using provisional data.

NOAA Regional Climate Centers Generated 10/12/2018 at HPRCC using provisional data.

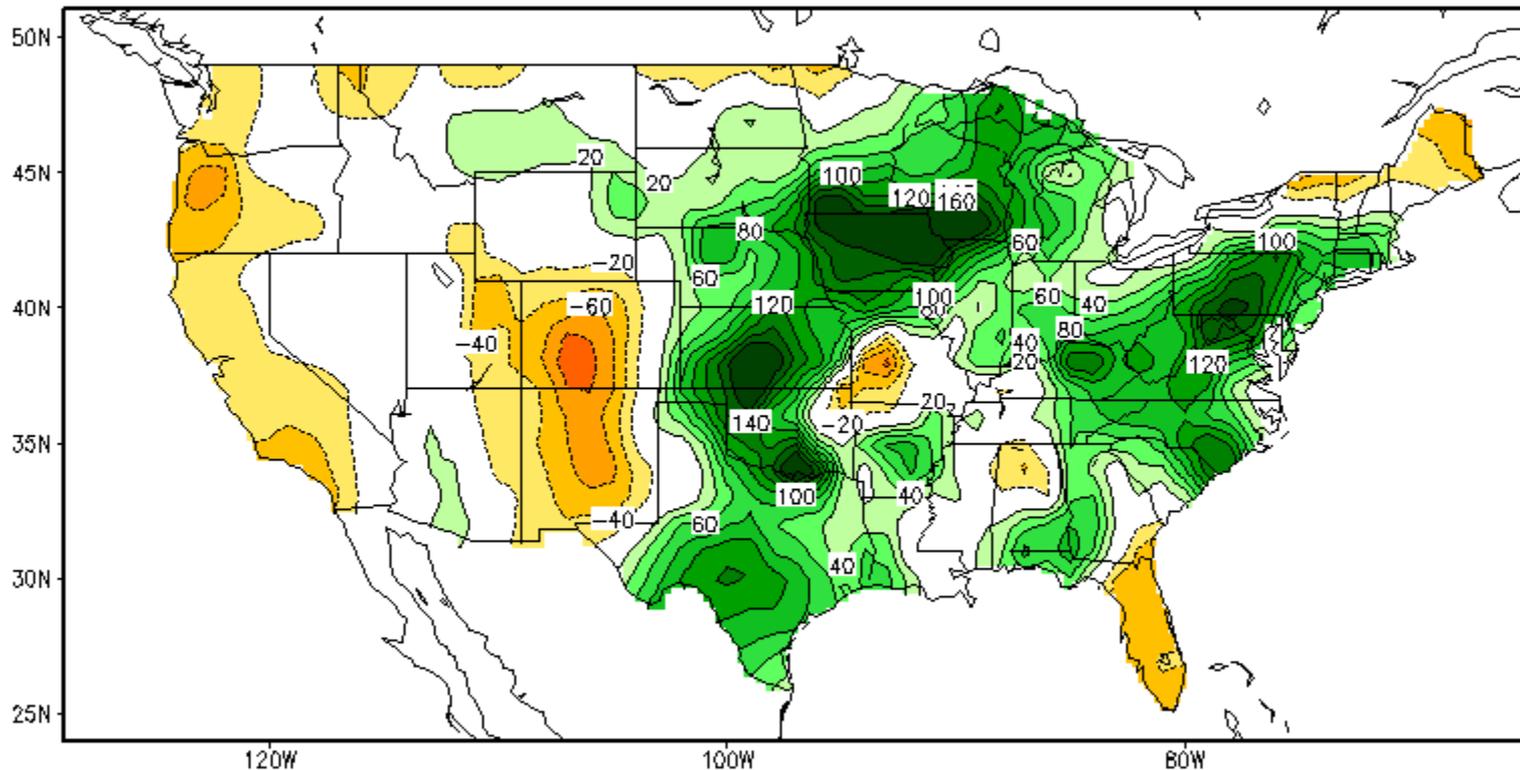
NOAA Regional Climate Centers



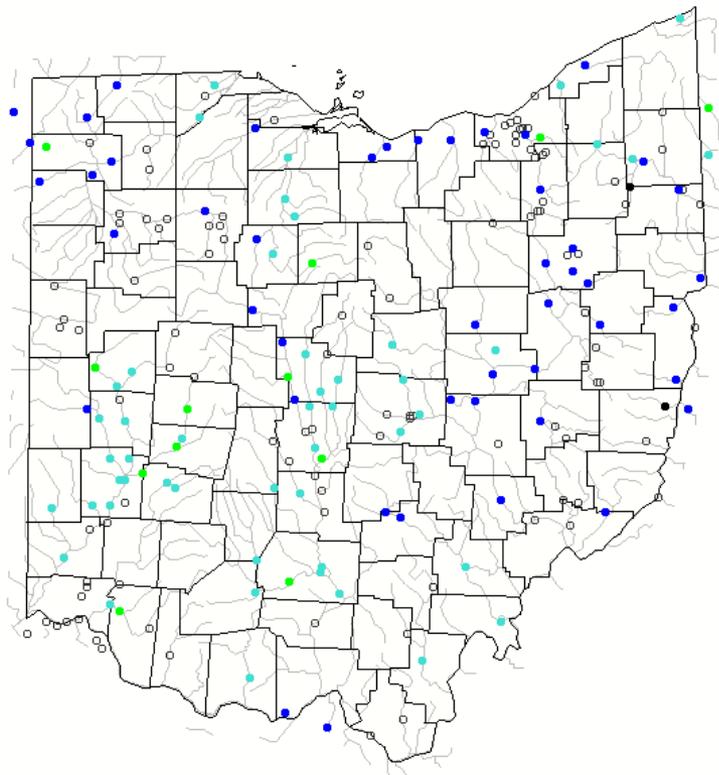
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# Soil Moisture

Calculated Soil Moisture Anomaly (mm)  
OCT 11, 2018



7-DAY



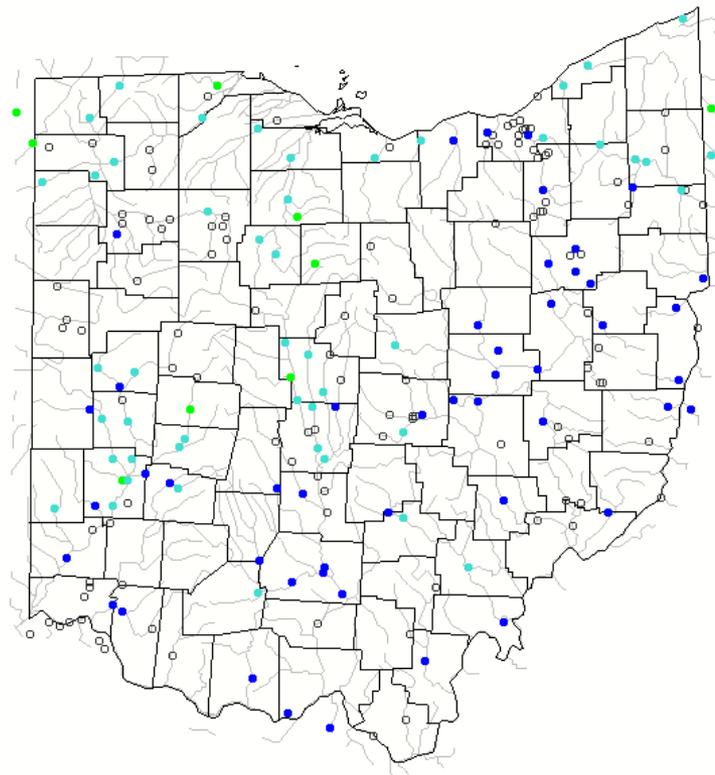
Explanation - Percentile classes

Low	<10 Much below normal	10-24 Below normal	25-75 Normal	76-90 Above normal	>90 Much above normal	High	Not-ranked

Average streamflow compared to historical streamflow for the day of the year

# USGS Streamflow

28-DAY



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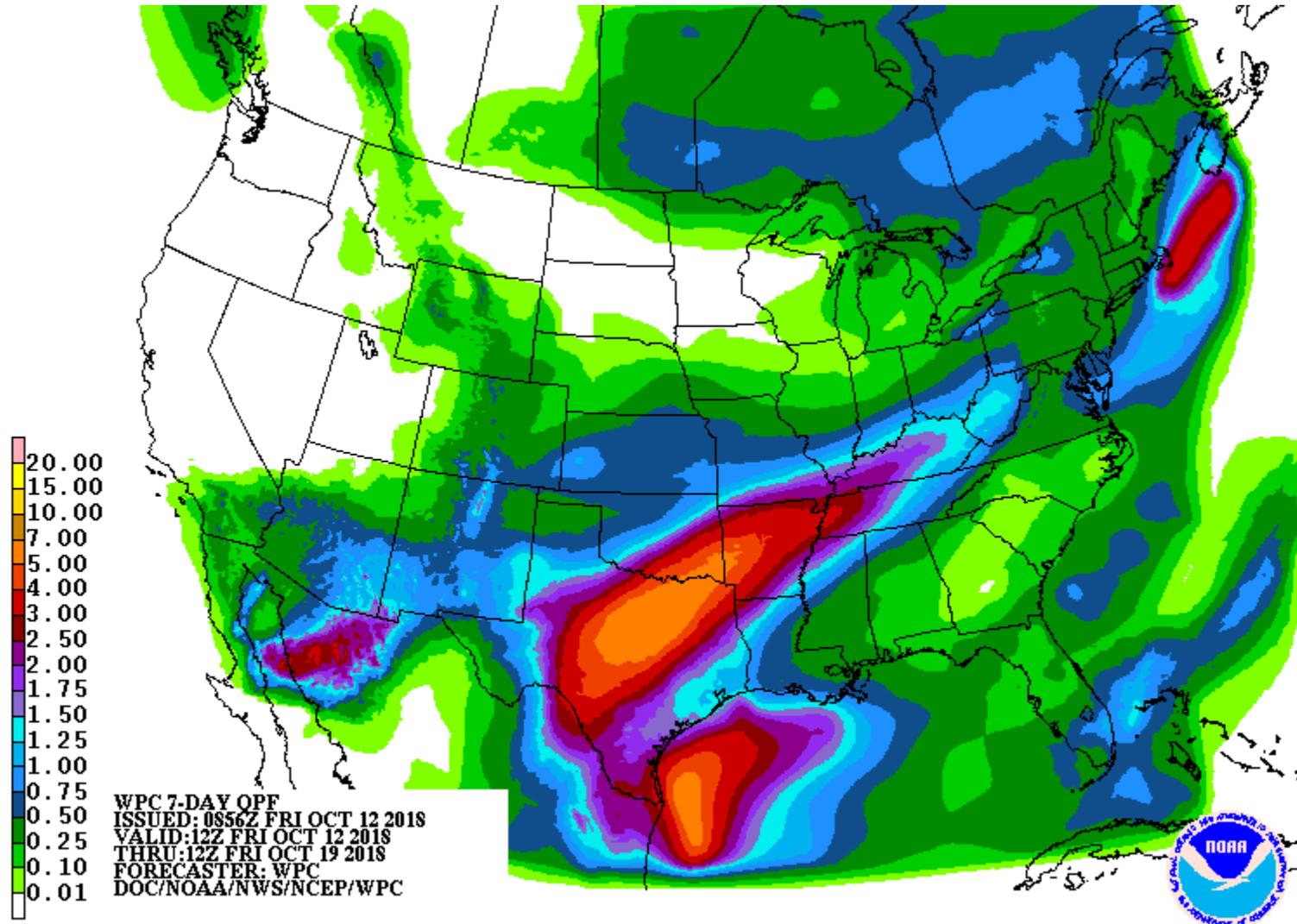
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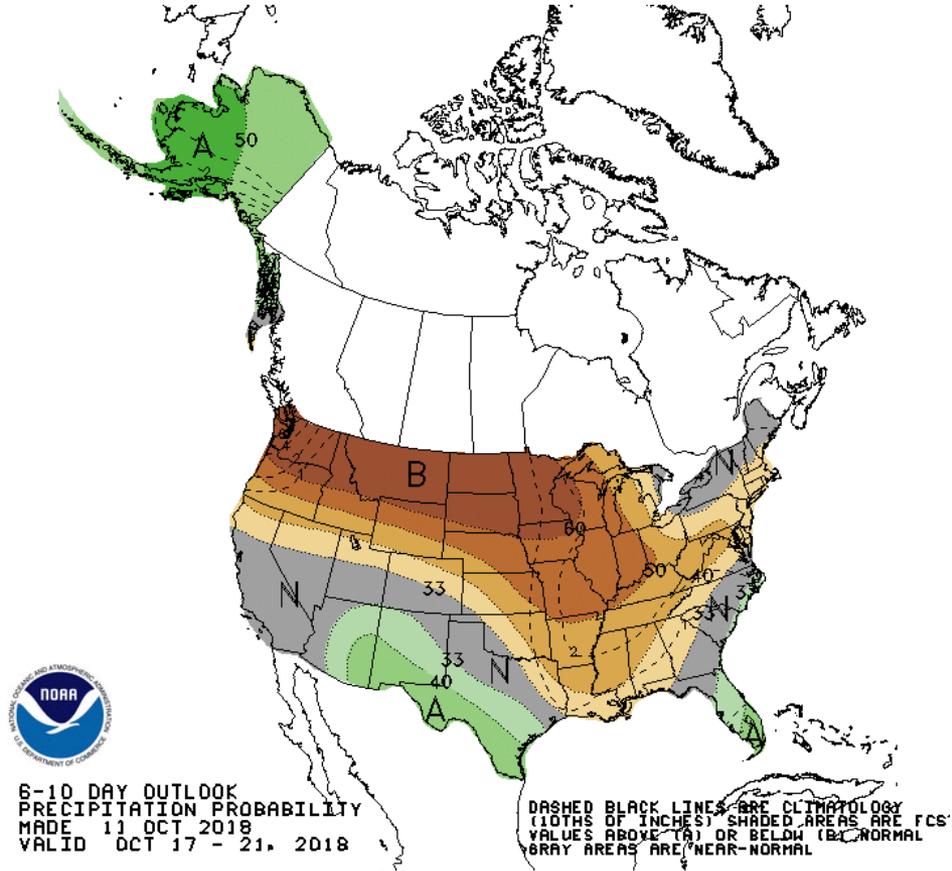
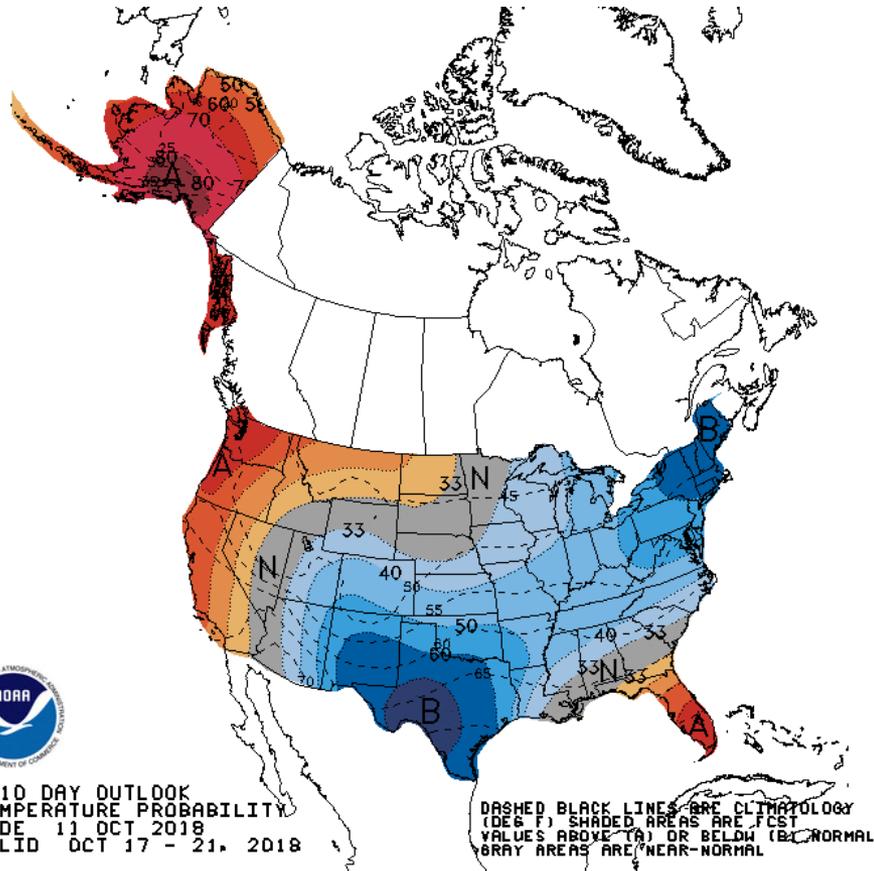
# Weather for the Week Ahead



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# 6-10 Day Outlook



Highs: 63-68 F; Lows: 43-47 F; Precip: 0.5-0.75" (per week)

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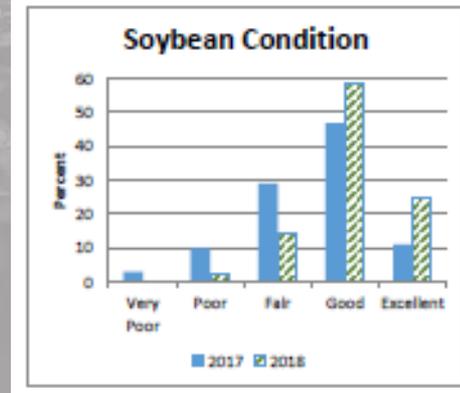
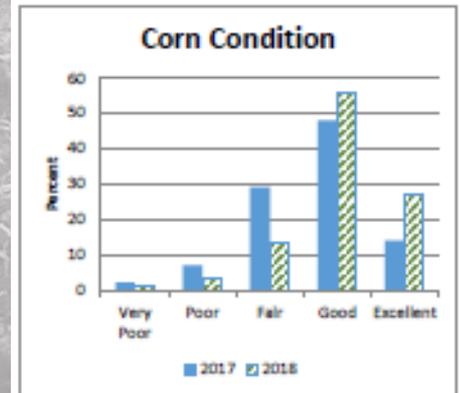
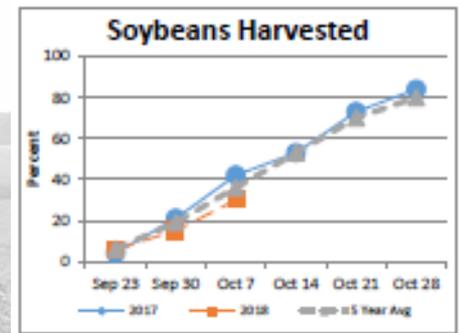


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# Ag Highlights

- 4.4 days suitable for work (through Oct. 7)
- Heat kept corn harvest above 5-year average; Soybean harvest increased 15% but still below 5-year average
- Winter wheat emergence underway



NASS: Cheryl Turner –

[https://www.nass.usda.gov/Statistics\\_by\\_State/Ohio/Publications/Crop\\_Progress\\_&\\_Condition/2017/cw3017oh.pdf](https://www.nass.usda.gov/Statistics_by_State/Ohio/Publications/Crop_Progress_&_Condition/2017/cw3017oh.pdf)



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# Summary of Conditions



**Back Cover Photo Credit:** Sam Custer- OSU Extension Educator Darke County

**Drought Monitor:** Nothing of note

**Climate Recap:** Very warm week with intermittent rains recently (mostly NW); Much cooler temperatures have arrived; Frosts and possible freeze this weekend/next week

**The week ahead:** Light precipitation across much of the state; heavier in the south



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