

Hydrologic and Climate Assessment

October 12, 2017

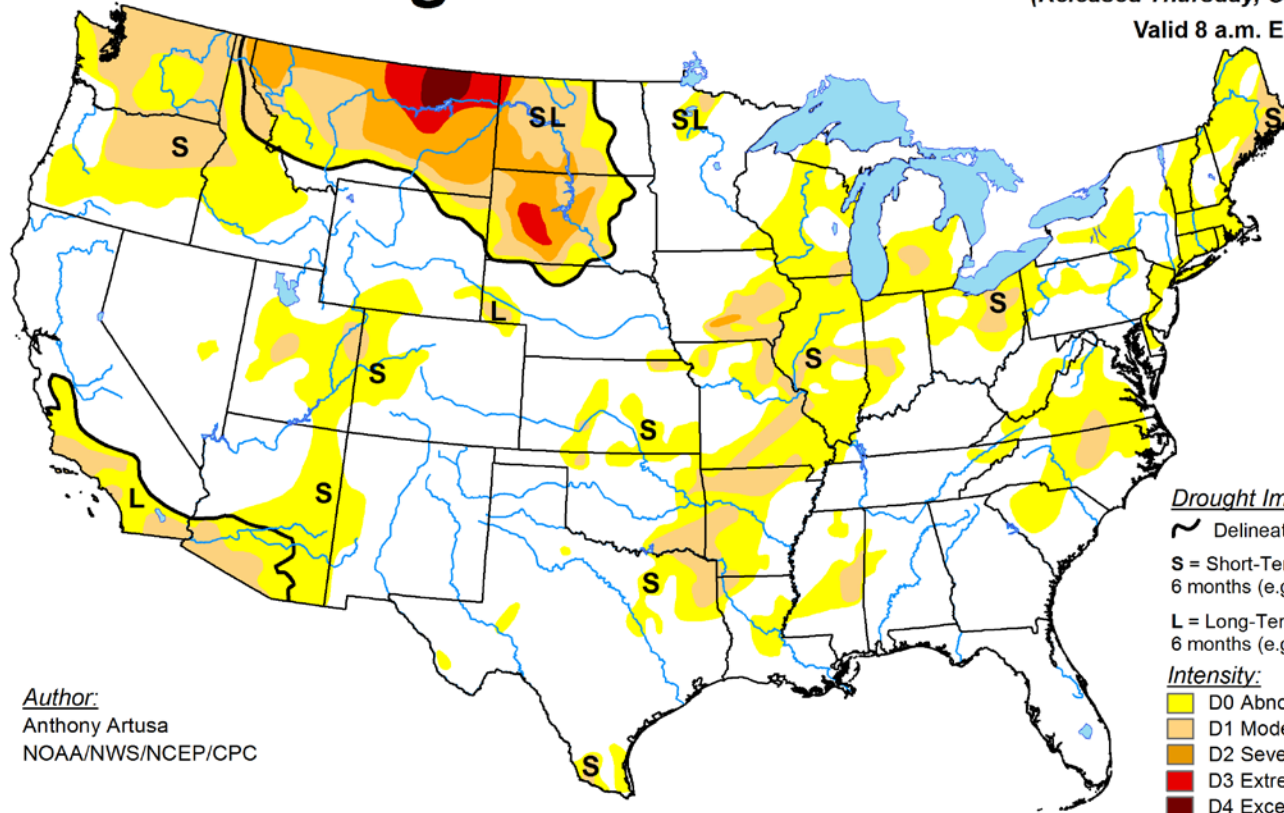


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COLLEGE OF FOOD, AGRICULTURAL, AND ENVIRONMENTAL SCIENCES
DEPARTMENT OF EXTENSION
BYRD POLAR & CLIMATE RESEARCH CENTER
DEPARTMENT OF GEOGRAPHY

U.S. Drought Monitor

October 10, 2017
 (Released Thursday, Oct. 12, 2017)
 Valid 8 a.m. EDT



Author:
 Anthony Artusa
 NOAA/NWS/NCEP/CPC

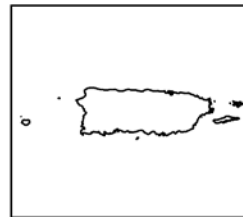
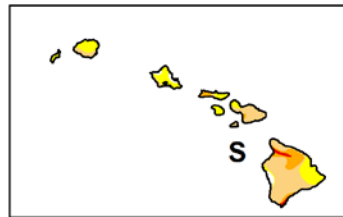
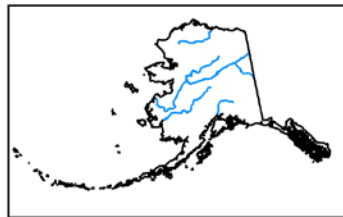
Drought Impact Types:

- ~ 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/>

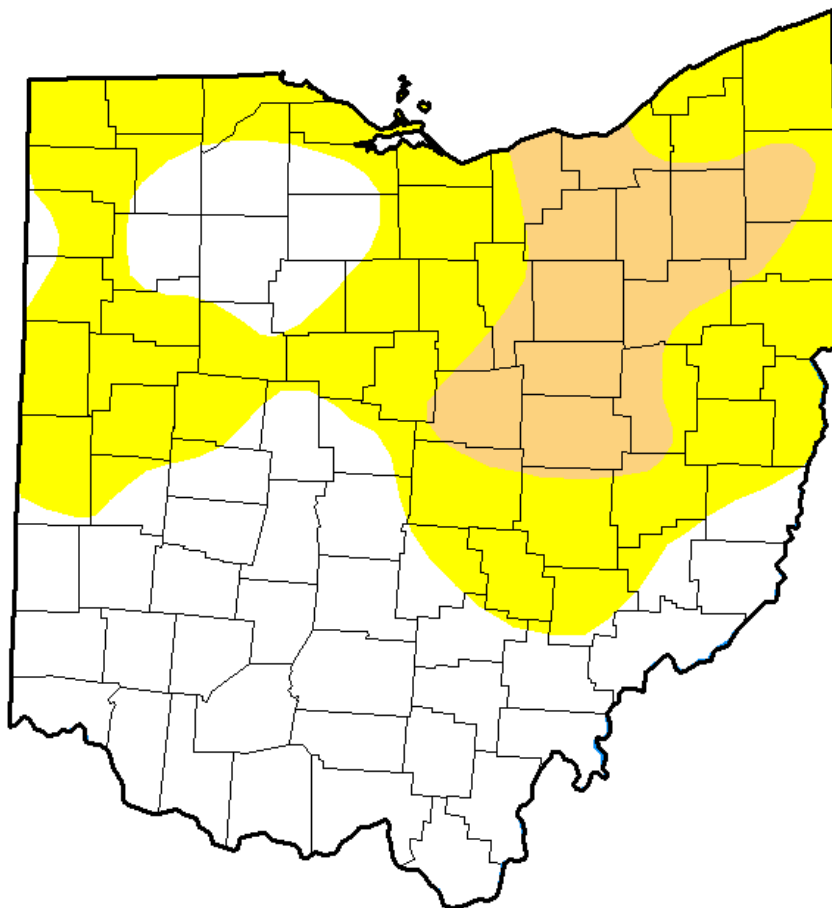


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U.S. Drought Monitor Ohio

October 10, 2017
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Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	45.23	54.77	14.22	0.00	0.00	0.00
Last Week 10-03-2017	45.23	54.77	14.22	0.00	0.00	0.00
3 Months Ago 07-11-2017	100.00	0.00	0.00	0.00	0.00	0.00
Start of Calendar Year 01-03-2017	88.16	11.84	0.00	0.00	0.00	0.00
Start of Water Year 09-26-2017	71.57	28.43	3.85	0.00	0.00	0.00
One Year Ago 10-11-2016	79.66	20.34	0.00	0.00	0.00	0.00

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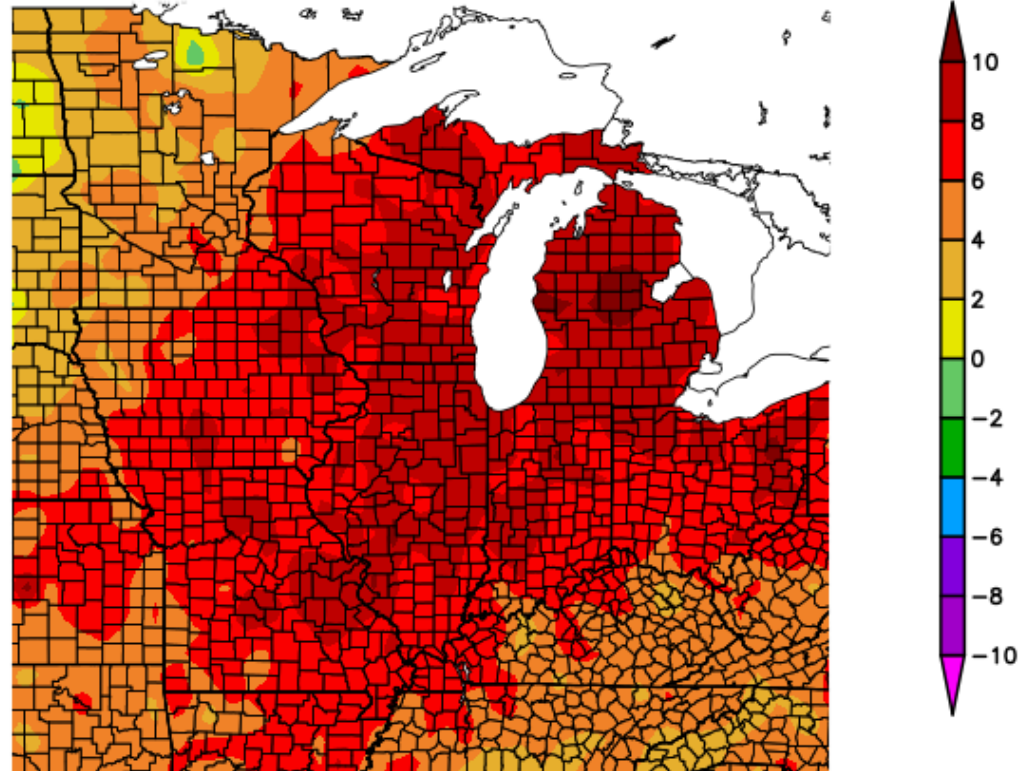


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Previous 30-Day Temperature Difference Compared to Average (1981-2010)

Departure from Normal Temperature (F)
9/12/2017 - 10/11/2017



NATIONAL INTEGRATED DROUGHT INFORMATION SYSTEM
NIDIS Drought.gov
U.S. Drought Portal

Generated 10/12/2017 at HPRCC using provisional data.

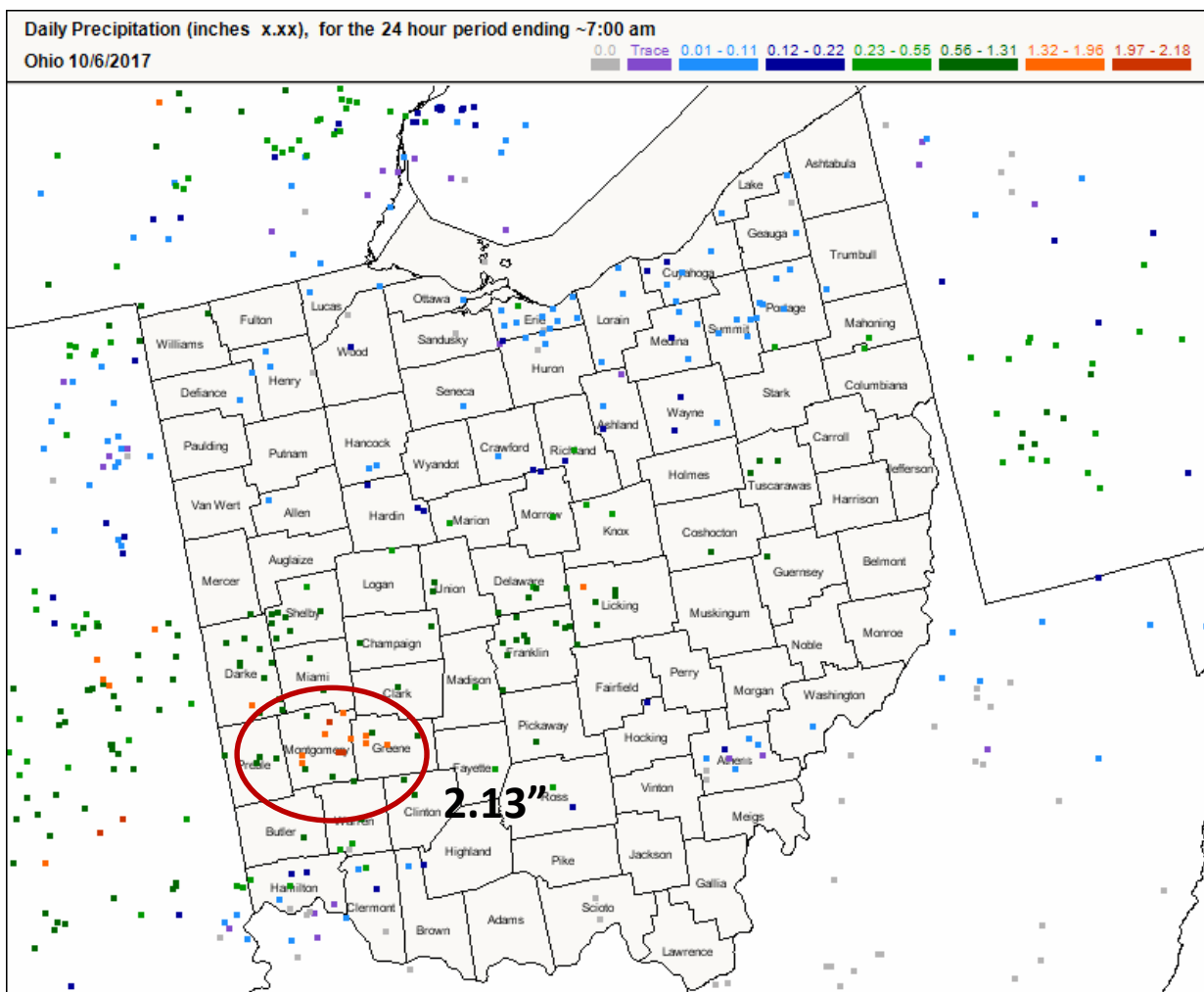
NOAA Regional Climate Centers



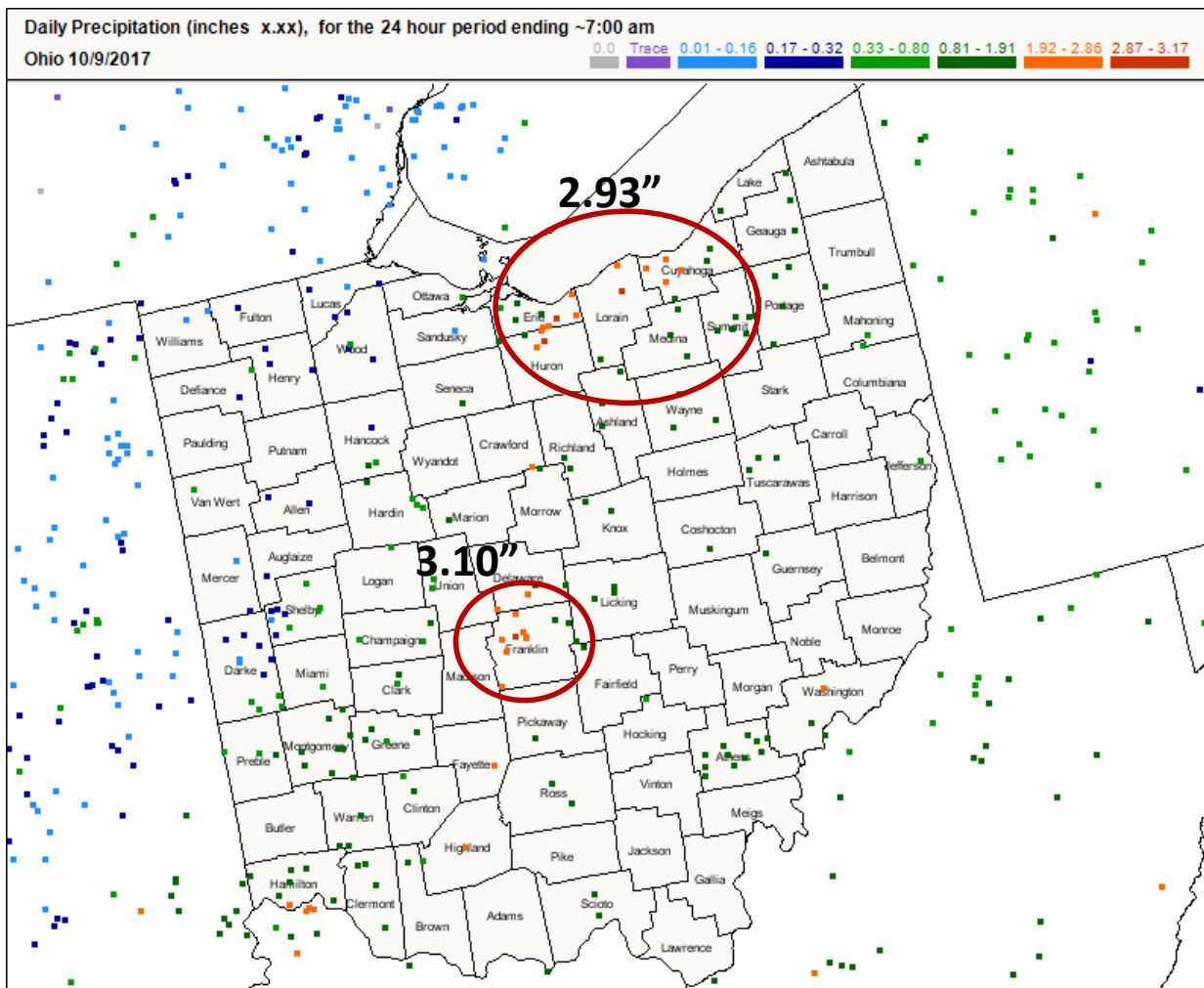
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CoCoRaHS Observed Precipitation: October 6



CoCoRaHS Observed Precipitation: October 9



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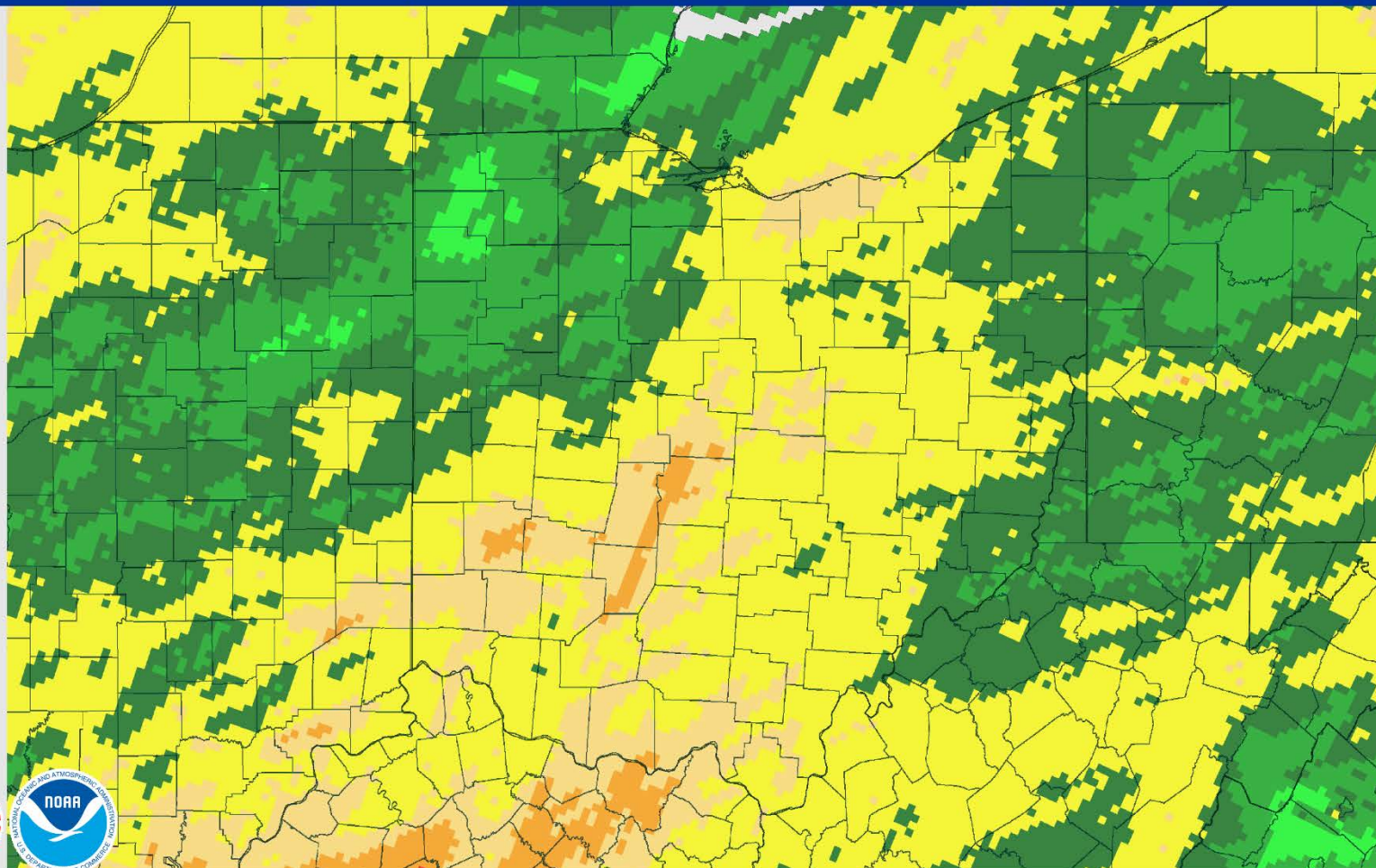
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Previous 7-Day Precipitation: Total

October 12, 2017 7-Day Observed Precipitation

Created on: October 12, 2017 - 17:06 UTC

Valid on: October 12, 2017 12:00 UTC



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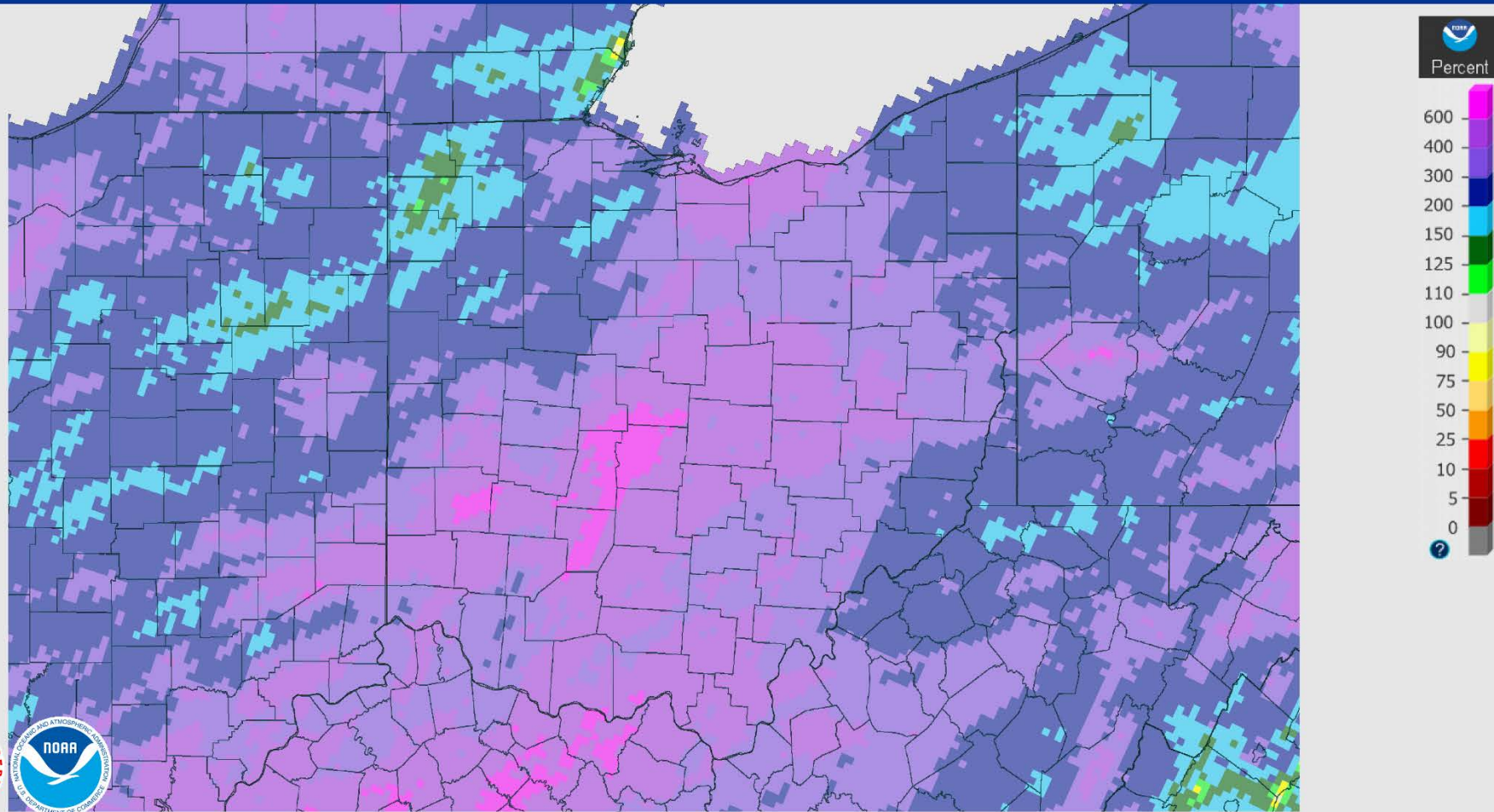
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Previous 7-Day Precipitation: Percent of Normal

October 12, 2017 7-Day Percent Precipitation

Created on: October 12, 2017 - 17:06 UTC

Valid on: October 12, 2017 12:00 UTC

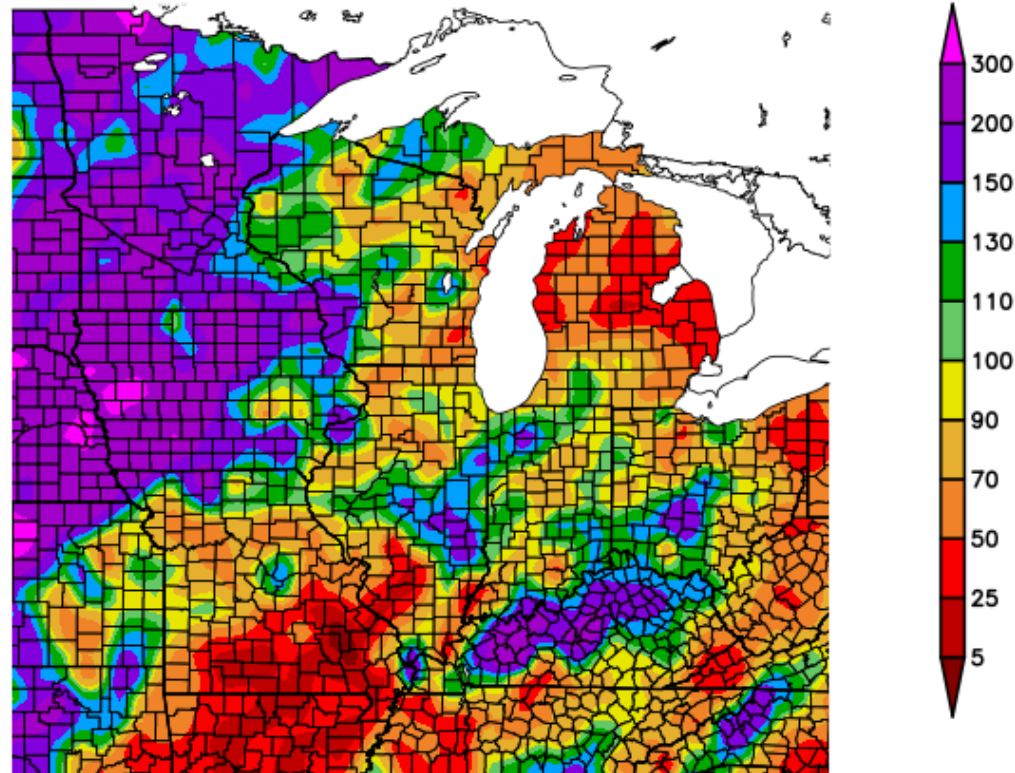


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Previous 30-Day Precipitation Difference Compared to Average (1981-2010)

Percent of Normal Precipitation (%)
9/12/2017 - 10/11/2017



NATIONAL INTEGRATED DROUGHT INFORMATION SYSTEM
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NOAA Regional Climate Centers



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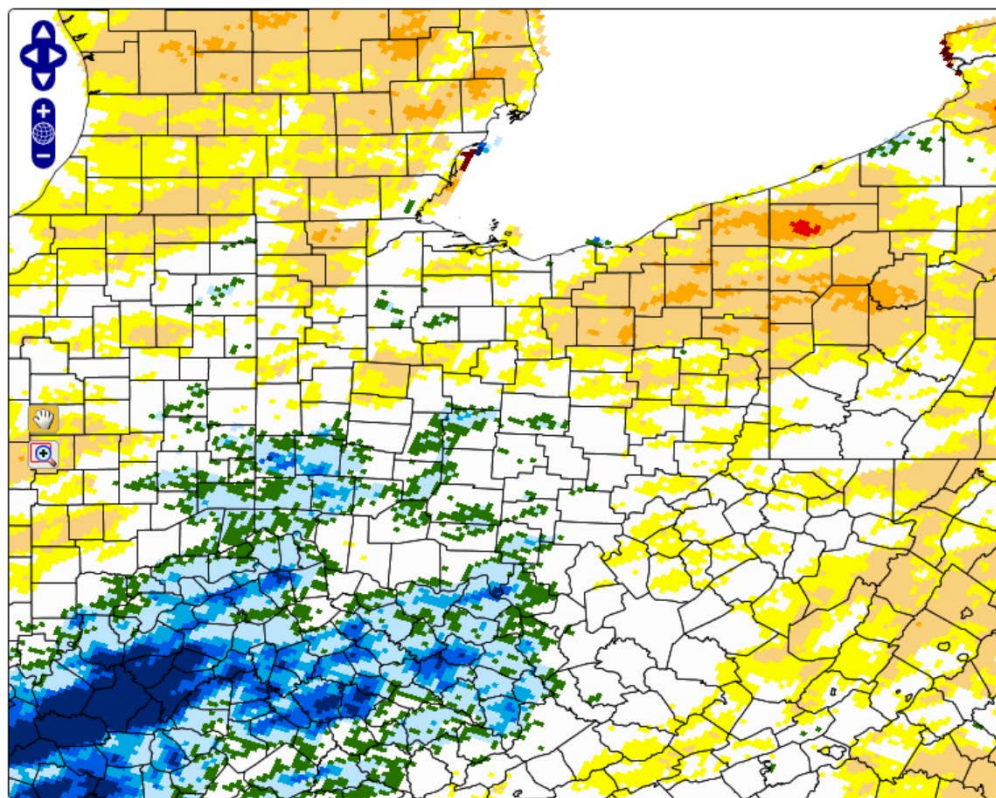
Standard Precipitation Index (SPI)

 **State Climate Office of North Carolina** Email: sco@climate.ncsu.edu
Phone: 919-515-3056

Data and Products Aspects of NC Climate Educational Outreach About Our Office Search

Experimental High Resolution Drought Trigger Tool

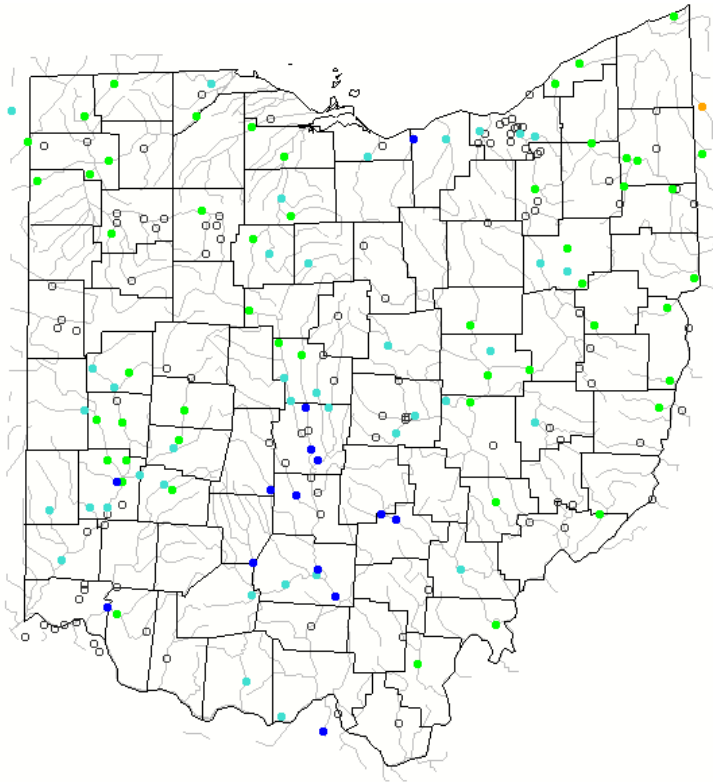
60-Day



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7-DAY



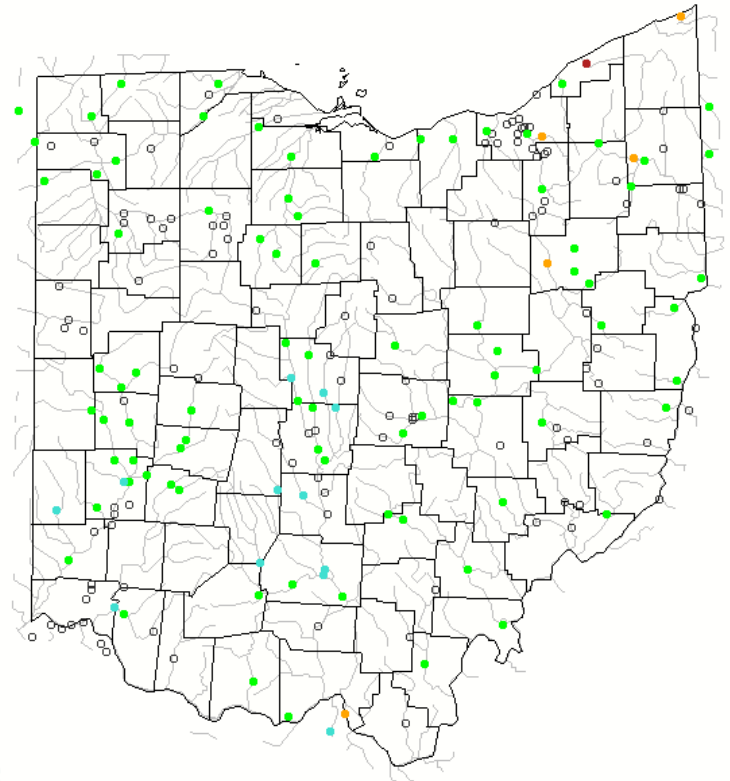
Explanation - Percentile classes

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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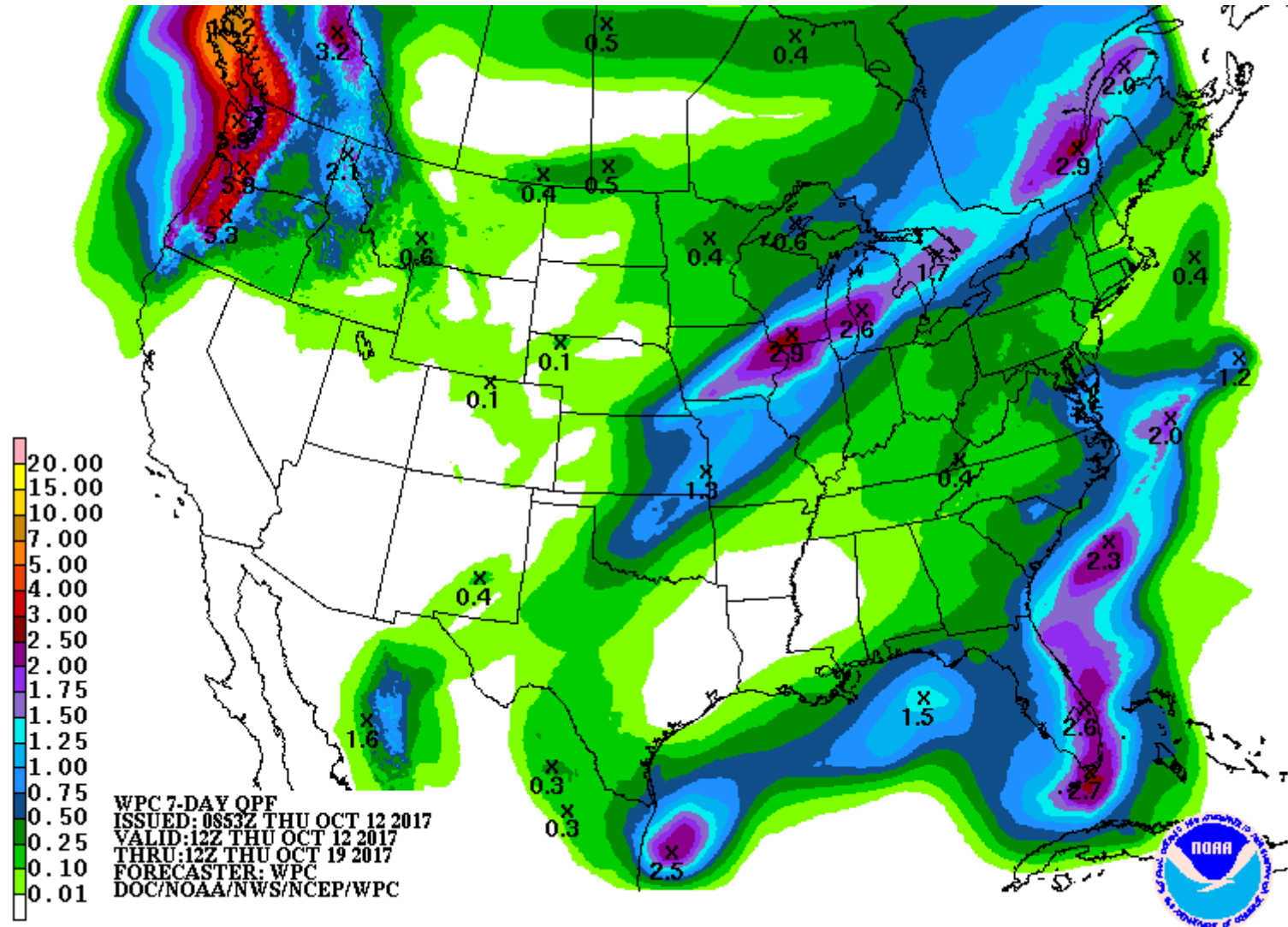
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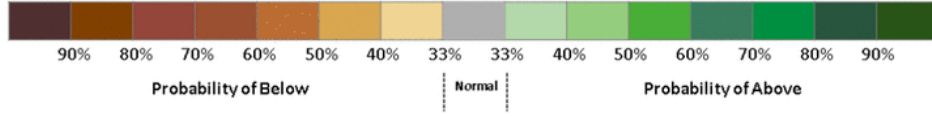
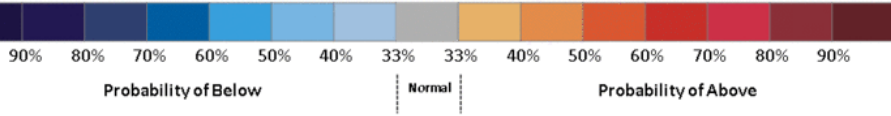
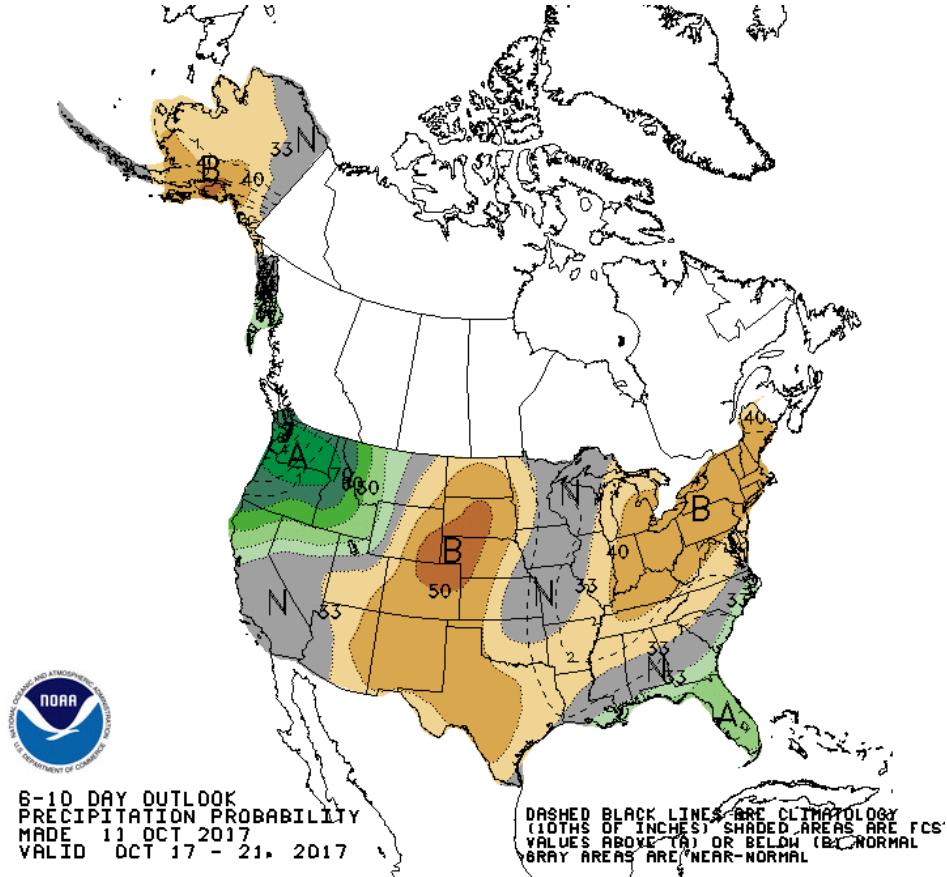
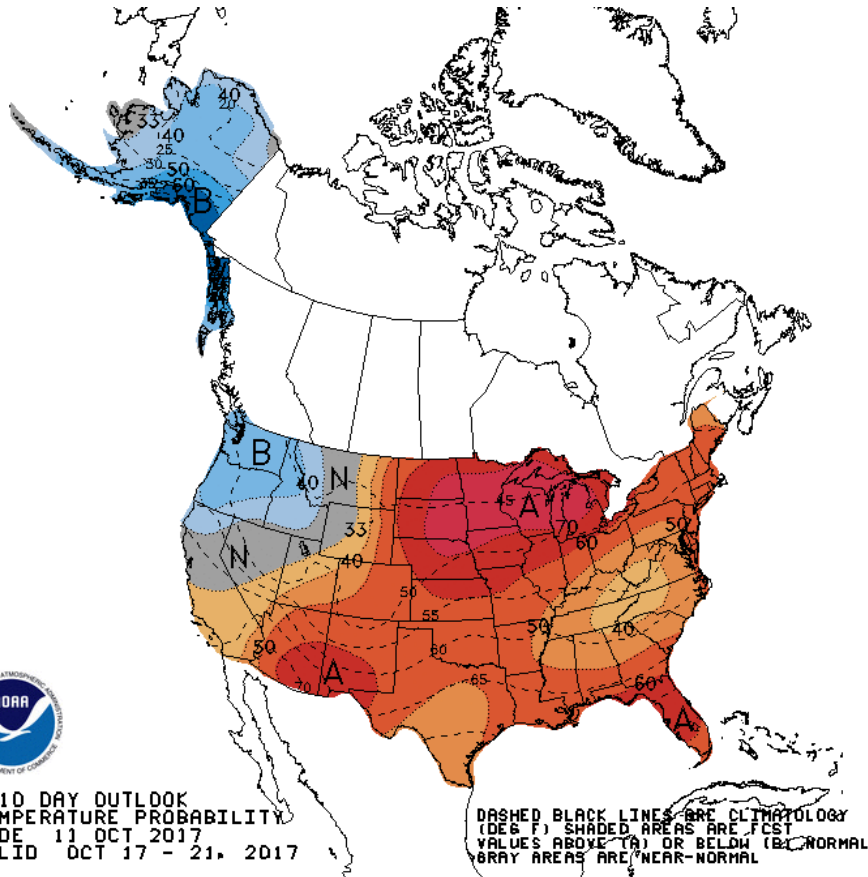


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Weather for the Week Ahead



6-10 Day Outlook



Highs: Mid to Upper 60s

Lows: Mid to Upper 40s

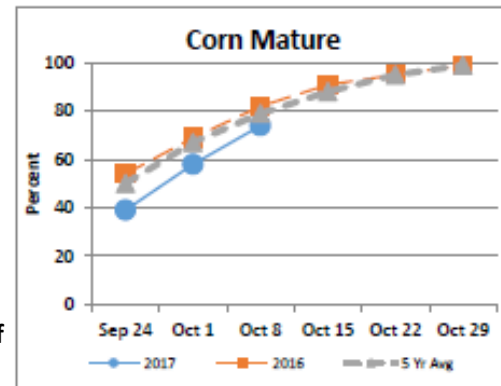
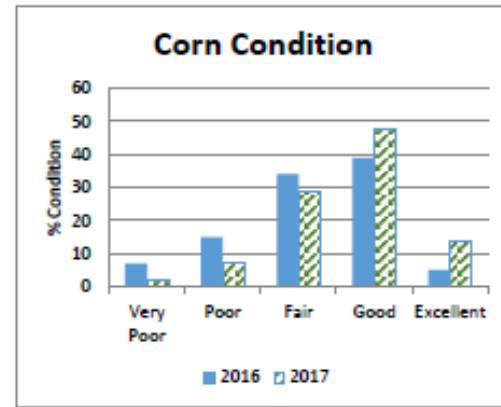
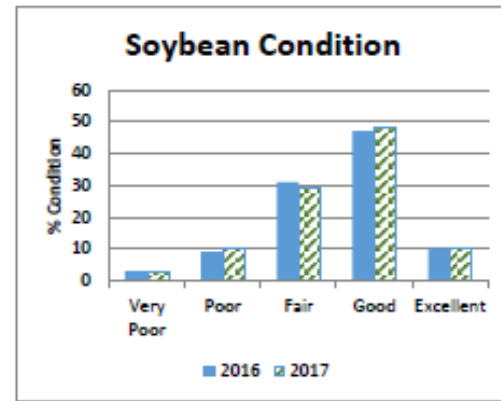


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Ag Highlights

- 4.9 days suitable for fieldwork
- Precipitation helped alleviate pasture pressure, winter wheat emergence where planting took place, and moistened up the soils without much runoff or ponding



NASS: Cheryl Turner –

https://www.nass.usda.gov/Statistics_by_State/Ohio/Publications/Crop_Progress_&_Condition/2017/cw3017oh.pdf



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Summary of Conditions



Drought Monitor: Status quo despite the rainfall this week

30-Day and 60-Day: Improving, especially across the south; still dry in the NE

The week ahead: Fairly benign weather this week



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