

Hydrologic and Climate Assessment

September 28, 2017



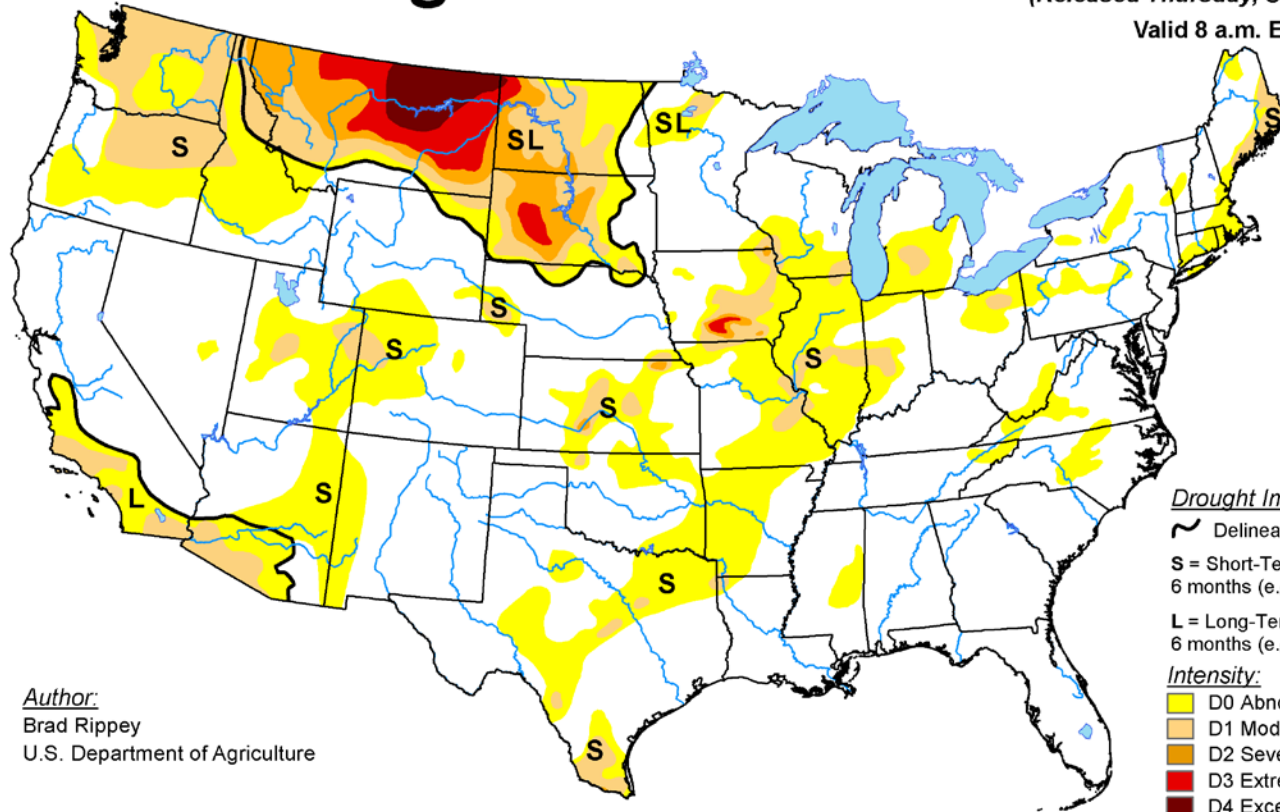
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COLLEGE OF FOOD, AGRICULTURAL, AND ENVIRONMENTAL SCIENCES
DEPARTMENT OF EXTENSION
BYRD POLAR & CLIMATE RESEARCH CENTER
DEPARTMENT OF GEOGRAPHY

U.S. Drought Monitor

September 26, 2017
(Released Thursday, Sep. 28, 2017)

Valid 8 a.m. EDT



Author:
Brad Rippey
U.S. Department of Agriculture

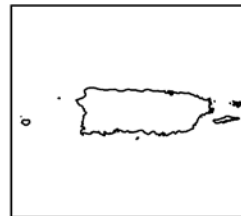
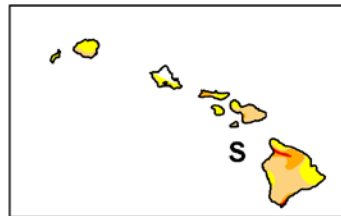
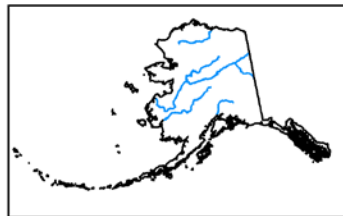
Drought Impact Types:

- ~ 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:

- Yellow: D0 Abnormally Dry
- Light Orange: D1 Moderate Drought
- Orange: D2 Severe Drought
- Red: D3 Extreme Drought
- Dark Red: 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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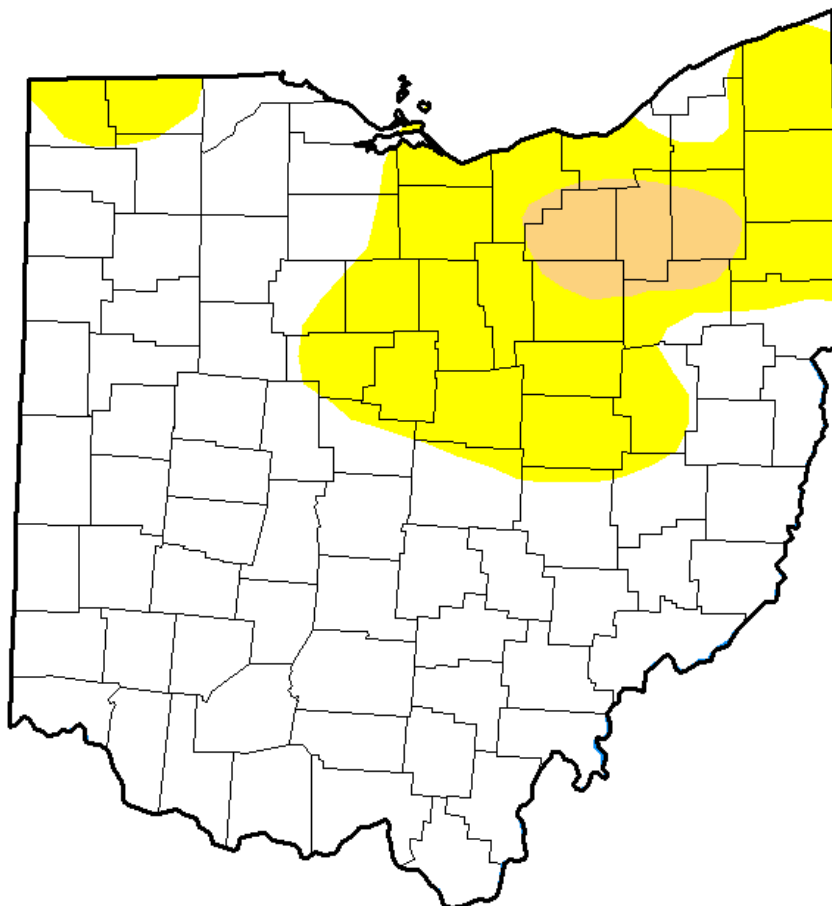
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U.S. Drought Monitor Ohio

September 26, 2017

(Released Thursday, Sep. 28, 2017)

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Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	71.57	28.43	3.85	0.00	0.00	0.00
Last Week <i>09-19-2017</i>	91.35	8.65	0.00	0.00	0.00	0.00
3 Months Ago <i>06-27-2017</i>	97.78	2.22	0.00	0.00	0.00	0.00
Start of Calendar Year <i>01-03-2017</i>	88.16	11.84	0.00	0.00	0.00	0.00
Start of Water Year <i>09-27-2016</i>	36.51	63.49	7.94	0.00	0.00	0.00
One Year Ago <i>09-27-2016</i>	36.51	63.49	7.94	0.00	0.00	0.00

Intensity:

- D0 Abnormally Dry
- D1 Moderate Drought
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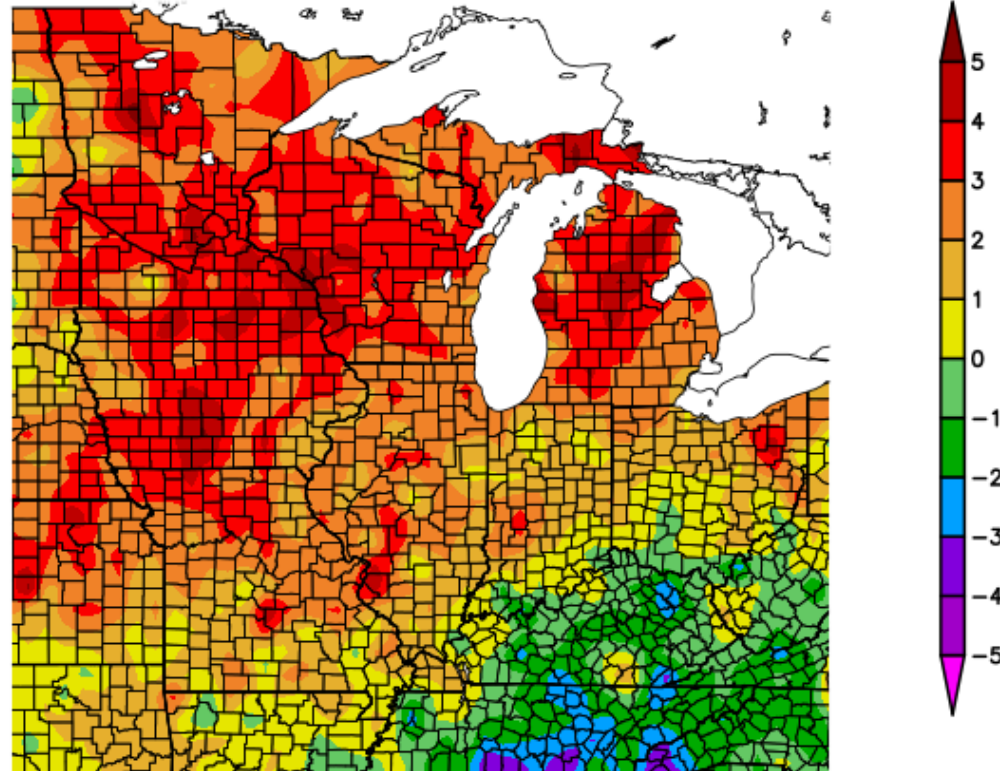
Brad Rippey
U.S. Department of Agriculture



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

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

Departure from Normal Temperature (F)
8/29/2017 - 9/27/2017



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

Generated 9/28/2017 at HPRCC using provisional data.

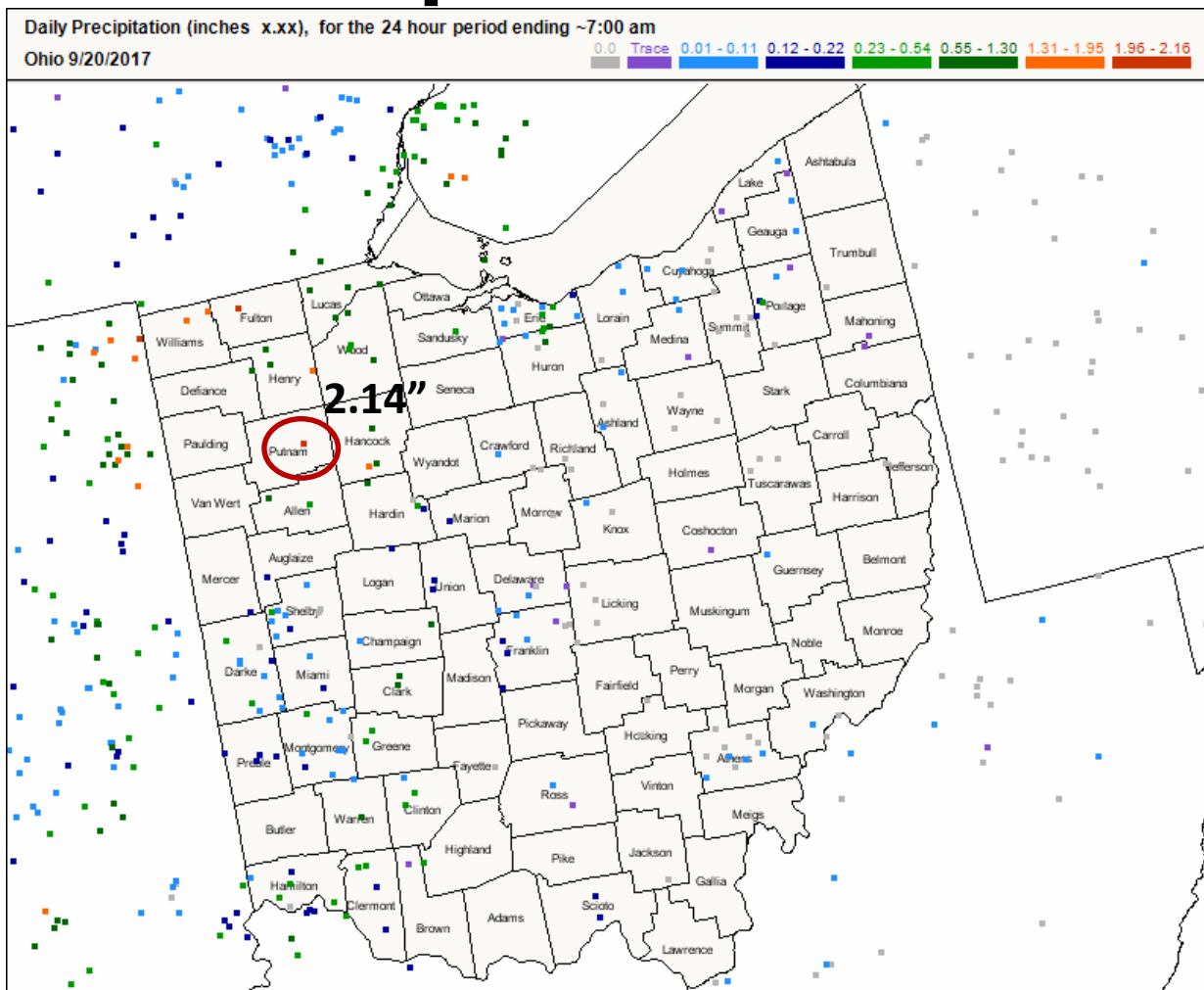
NOAA Regional Climate Centers



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CoCoRaHS Observed Precipitation: September 20

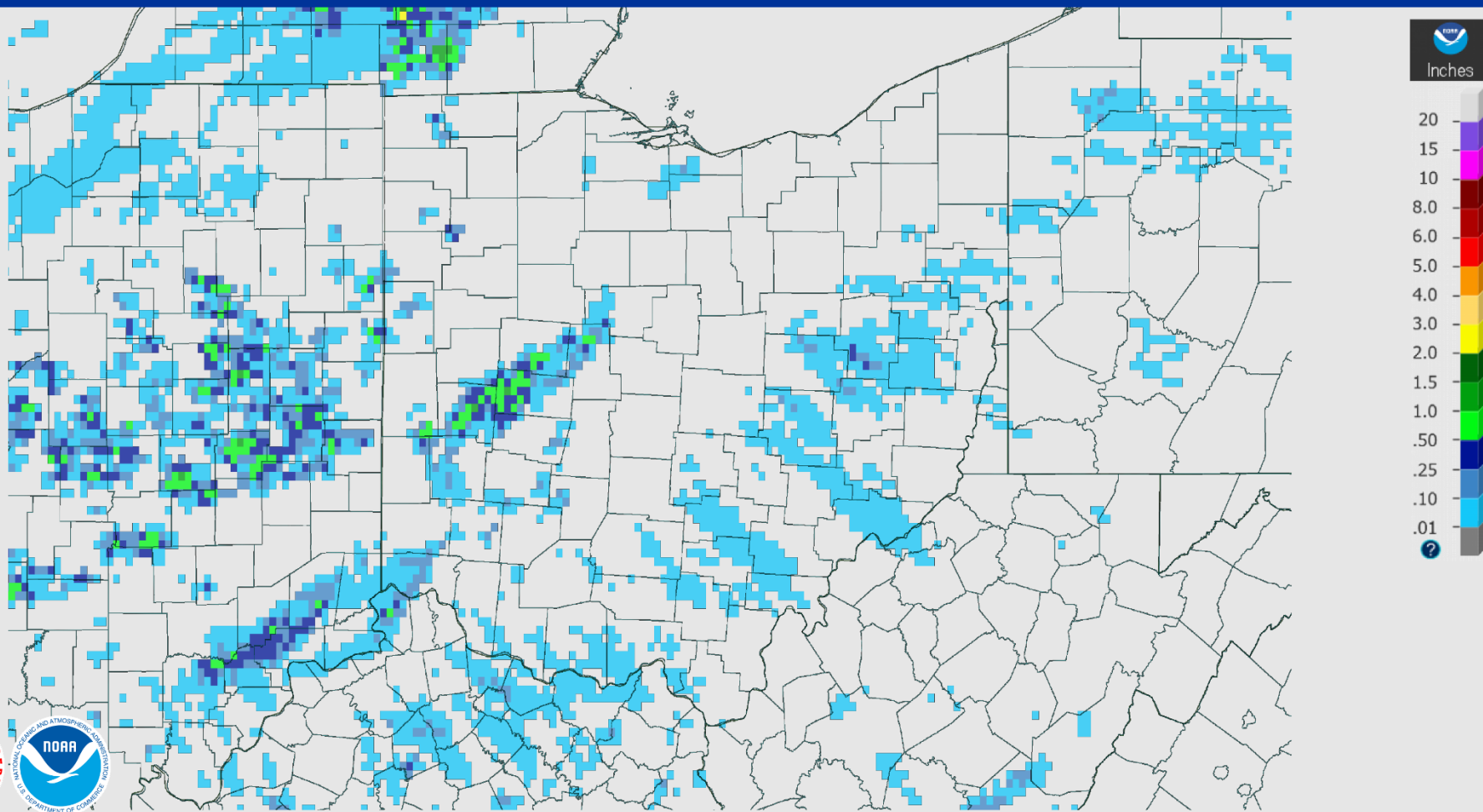


Previous 7-Day Precipitation: Total

September 28, 2017 7-Day Observed Precipitation

Created on: September 28, 2017 - 13:56 UTC

Valid on: September 28, 2017 12:00 UTC



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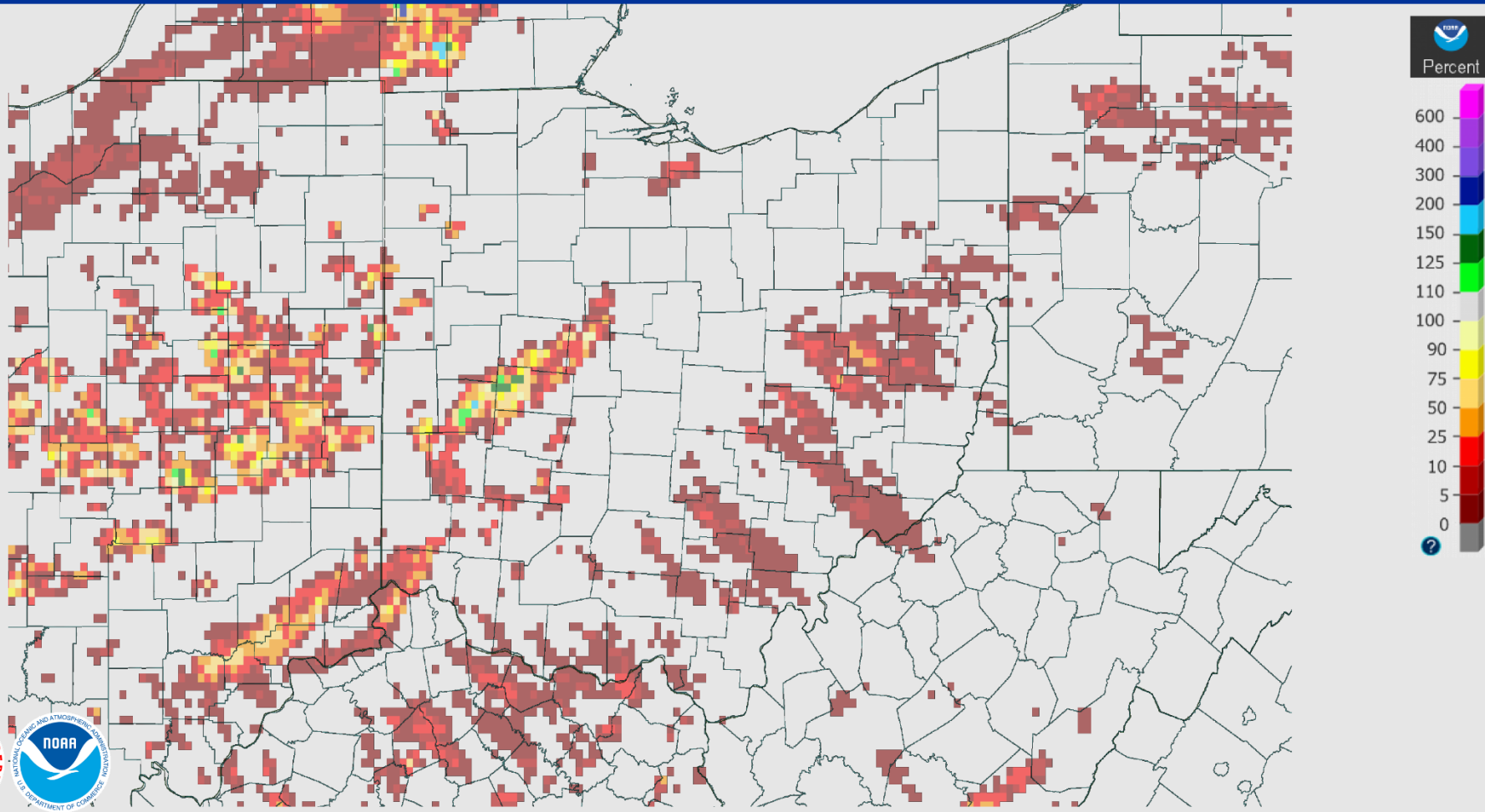
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Previous 7-Day Precipitation: Percent of Normal

September 28, 2017 7-Day Percent Precipitation

Created on: September 28, 2017 - 13:57 UTC

Valid on: September 28, 2017 12:00 UTC

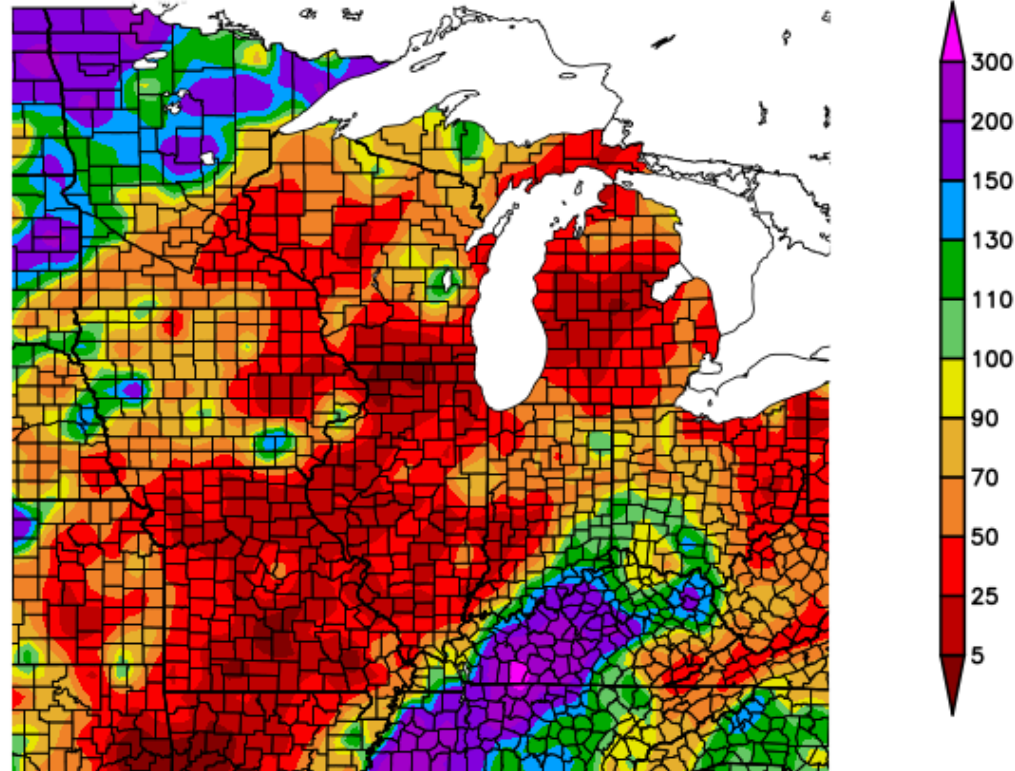


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Previous 30-Day Precipitation Difference Compared to Average (1981-2010)

Percent of Normal Precipitation (%)
8/29/2017 - 9/27/2017



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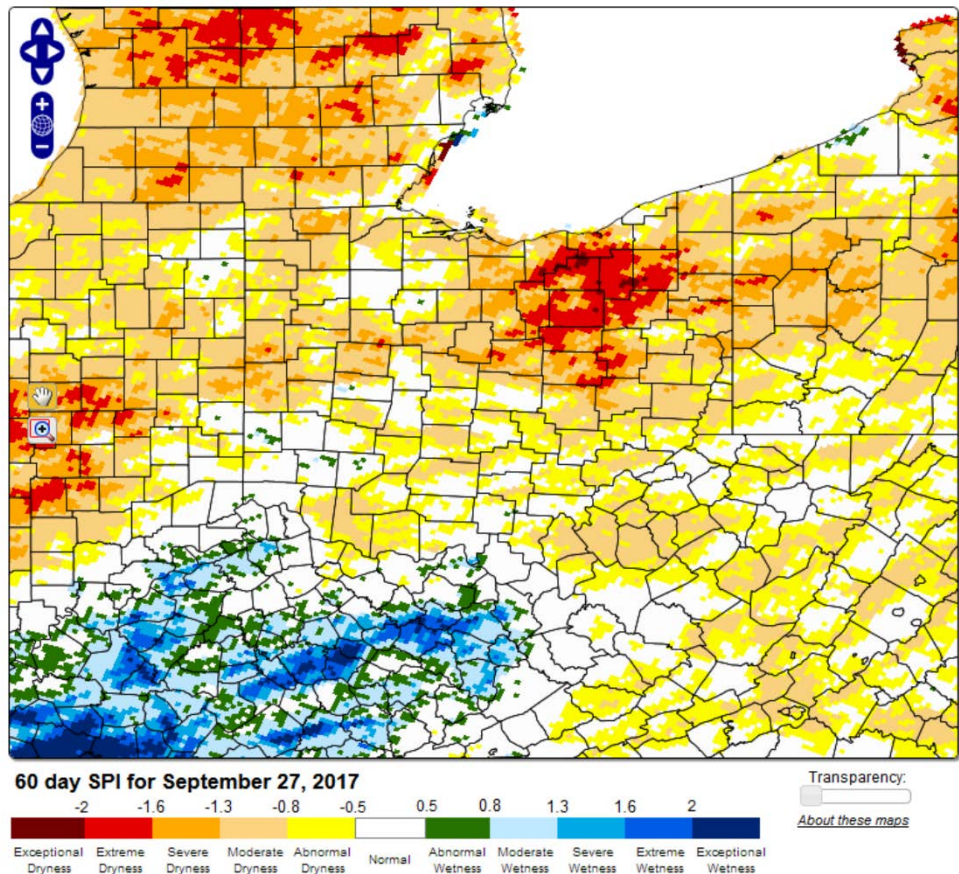
Standard Precipitation Index (SPI)

 **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

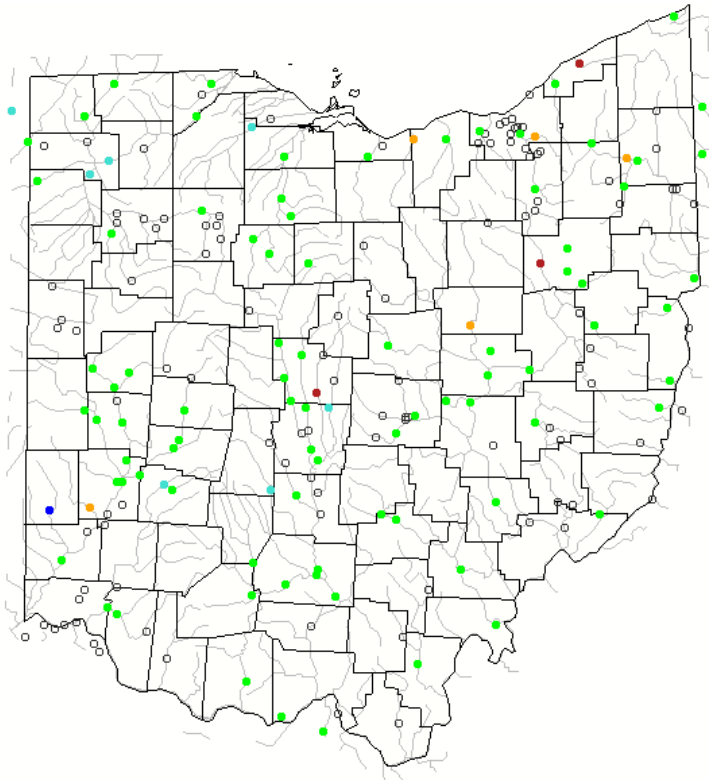
60-Day



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7-DAY



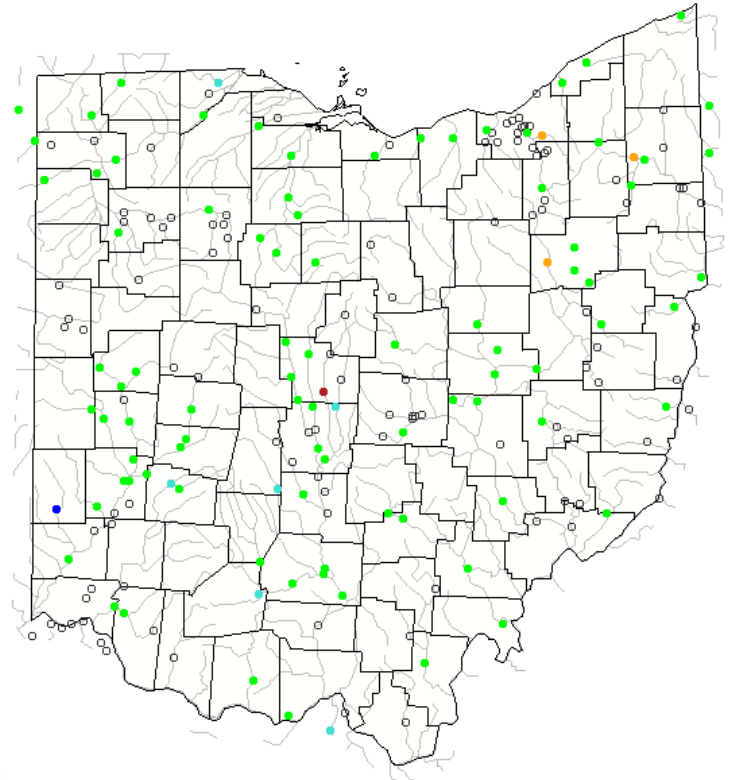
Explanation - Percentile classes

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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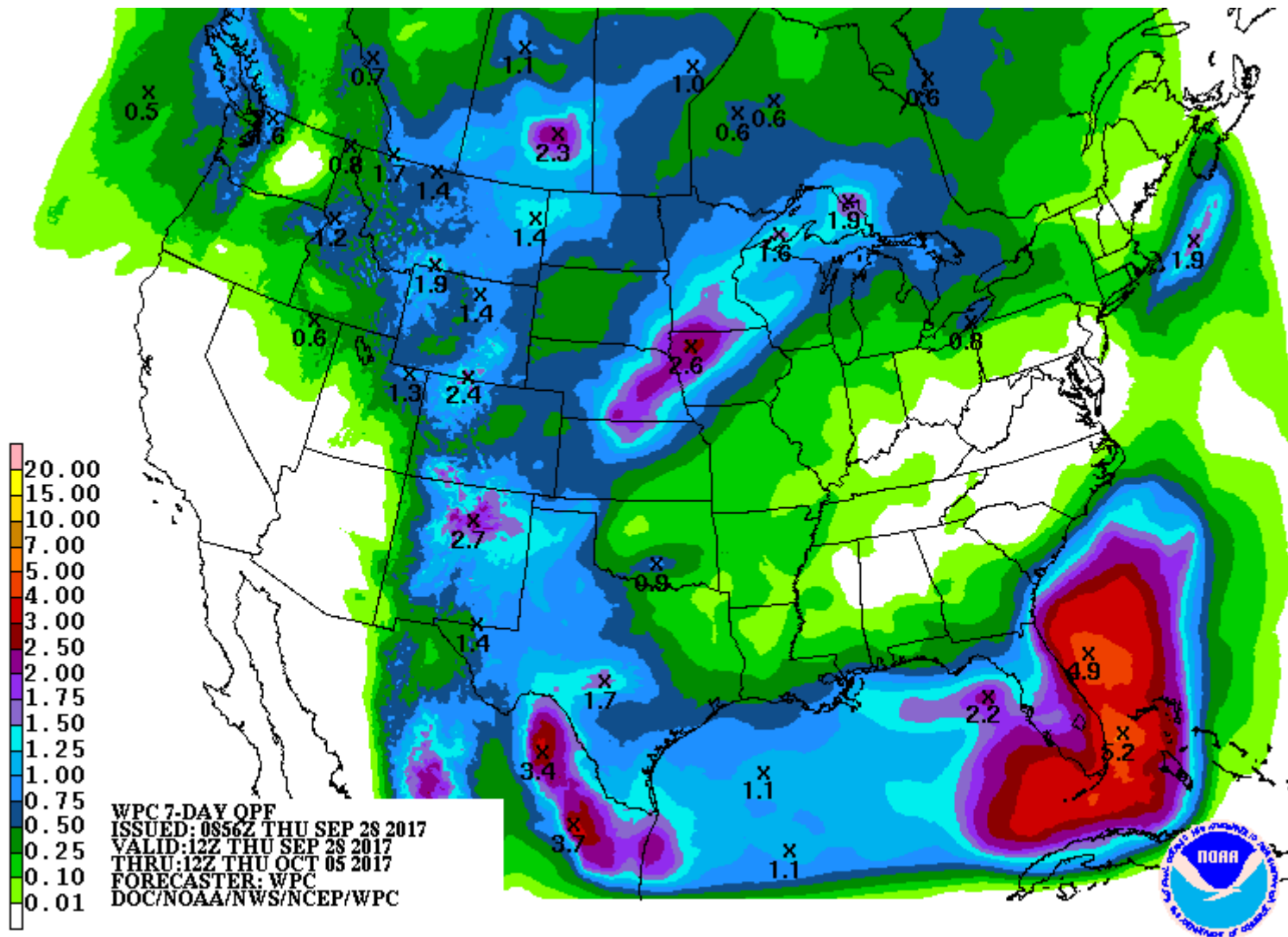
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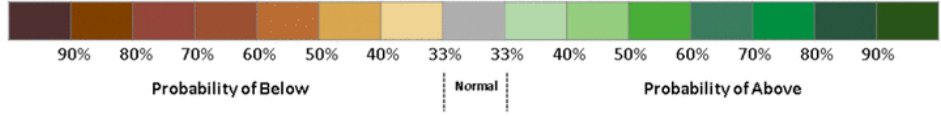
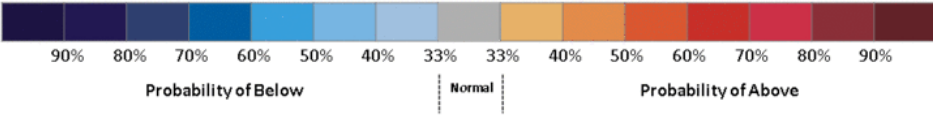
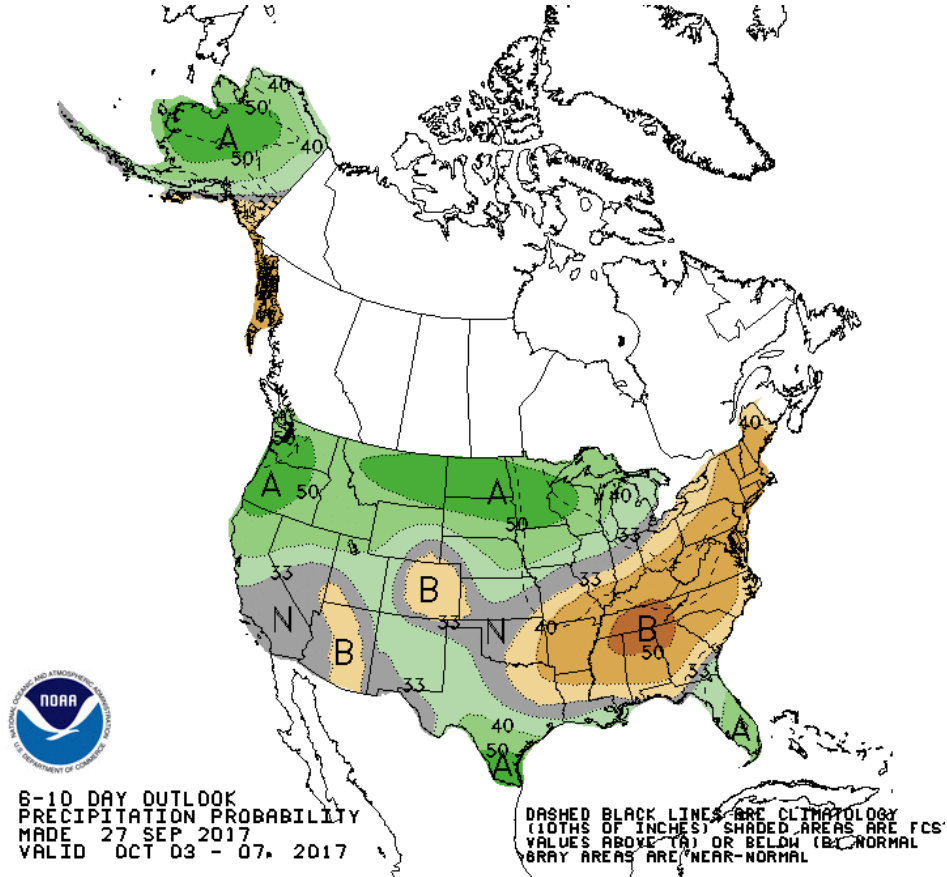
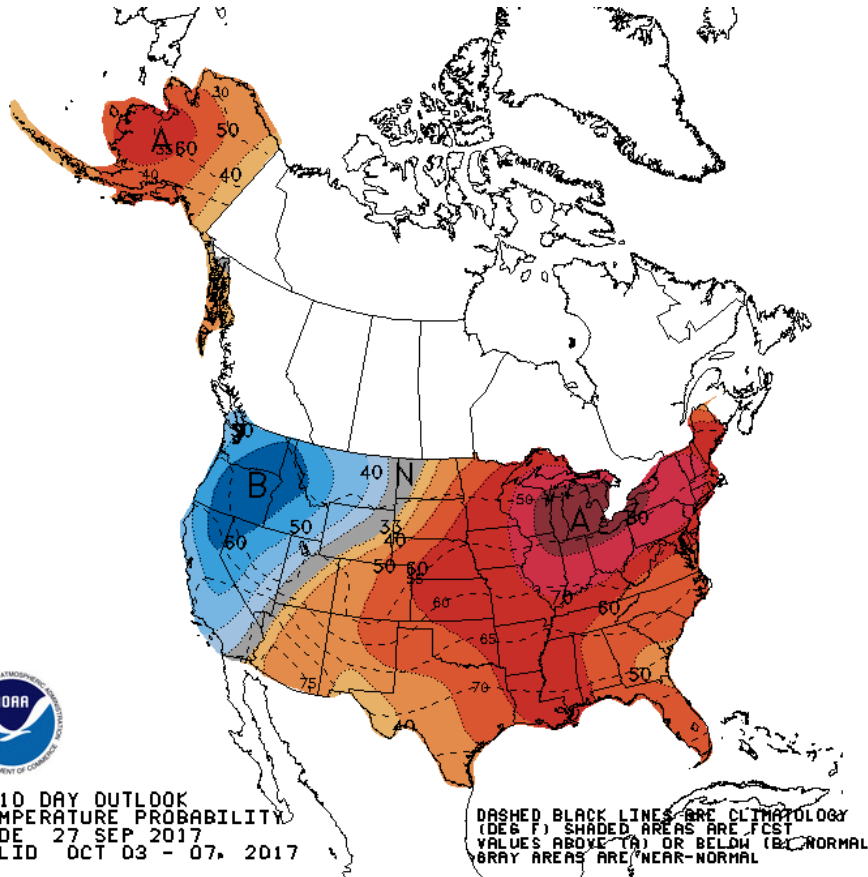


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Weather for the Week Ahead



6-10 Day Outlook



Highs: 70-75

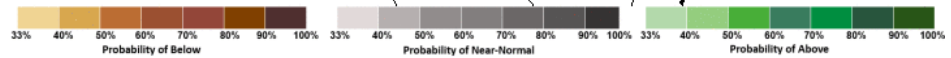
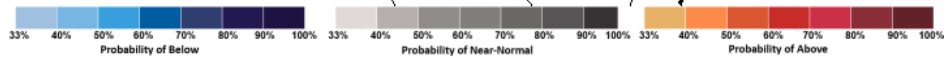
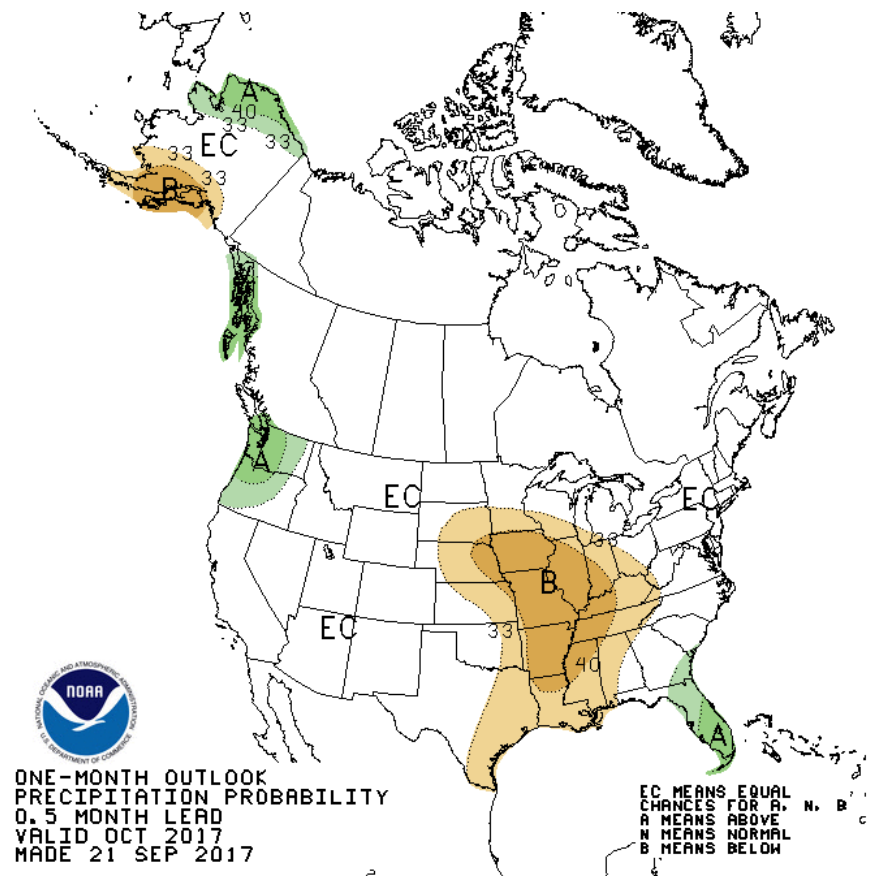
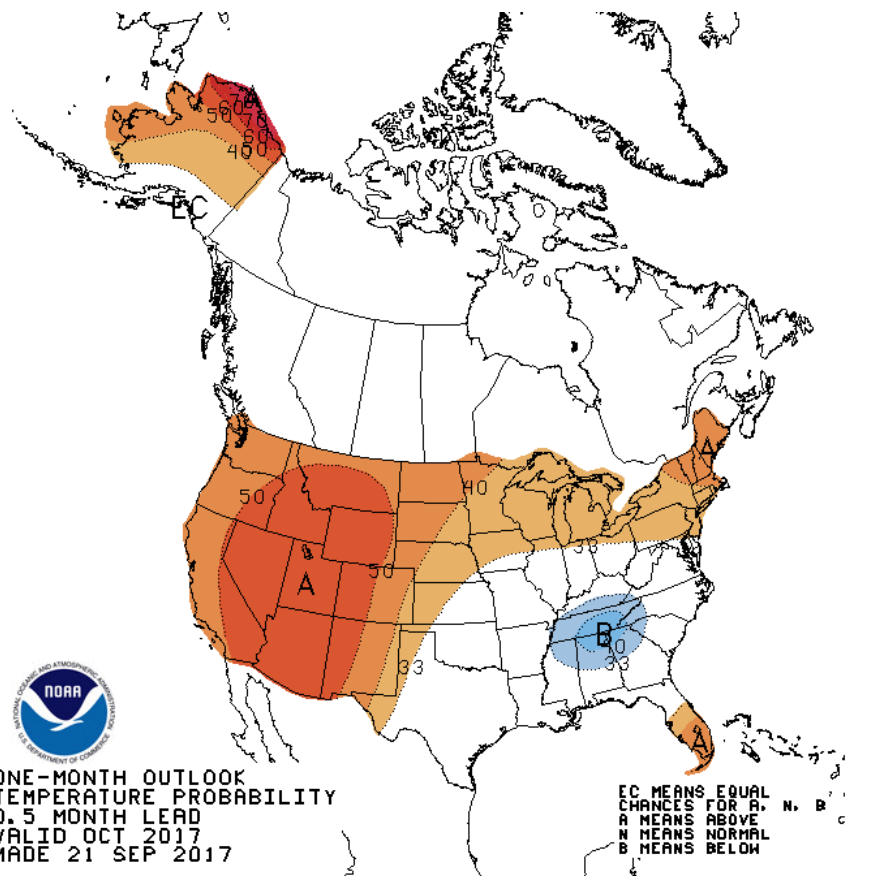
Lows: Upper 40s-Low 50s



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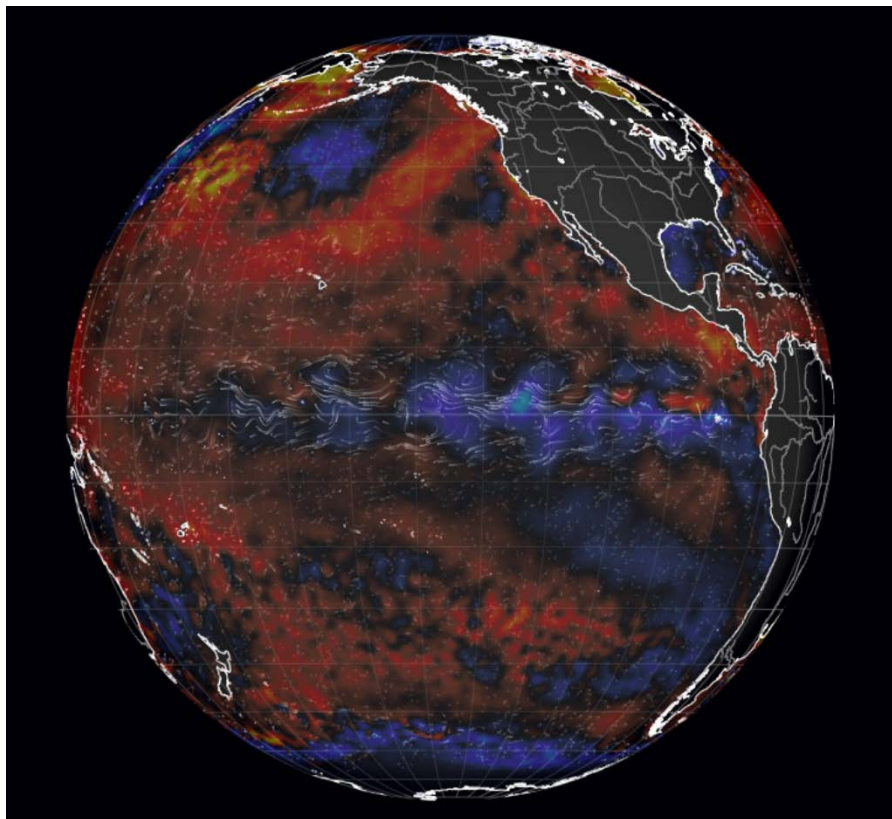
October Outlook



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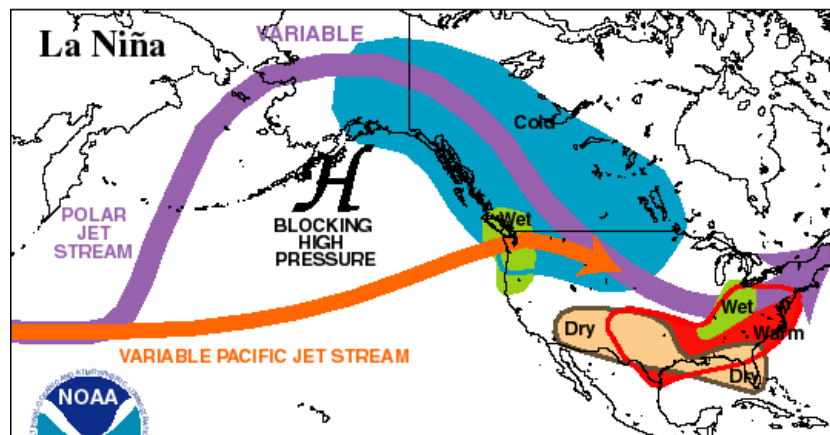
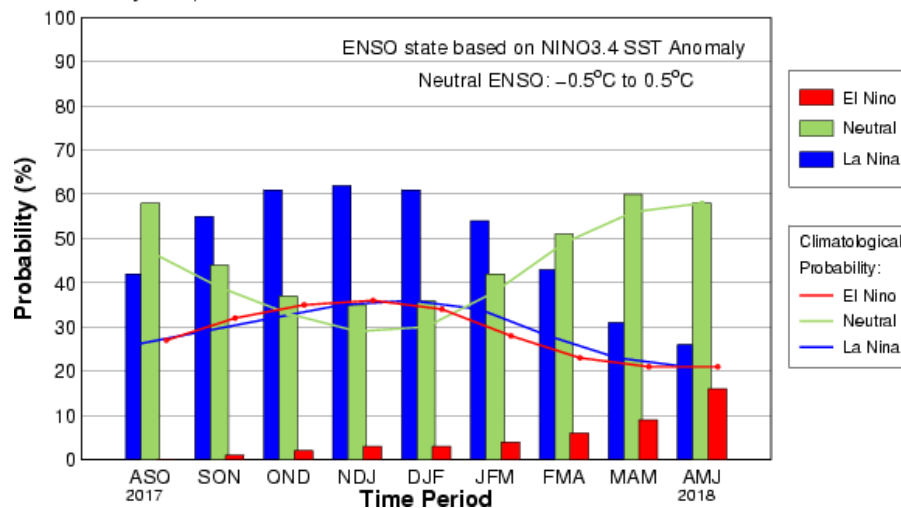
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La Niña Watch has been issued!



earth.nullschool.net

Early-Sep CPC/IRI Official Probabilistic ENSO Forecast



Climate Prediction Center/NCEP/NWS

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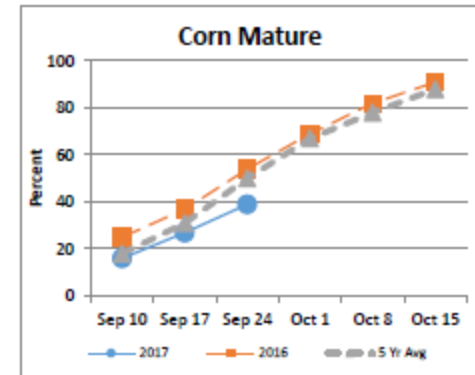
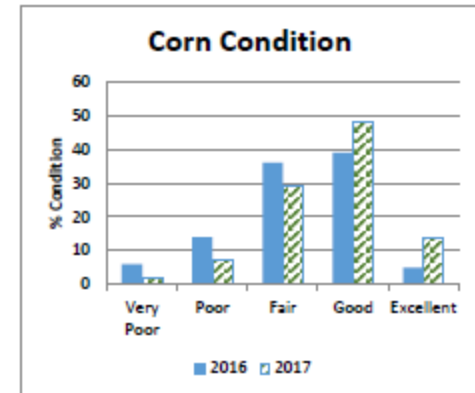
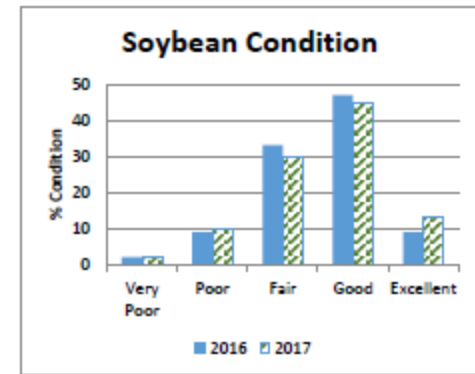
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Ag Highlights

- 5.8 days suitable for fieldwork
- Heat helped push corn and soybeans toward maturity; more dry-down needed in corn
- Some signs of moisture stress on pastures and hay



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: Dry across the NE; D1 Drought conditions now established

30-Day and 60-Day: Dry conditions expanding across north/east

The week ahead: Dry; Cooler to start then warming



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