

Hydrologic and Climate Assessment

October 5, 2017



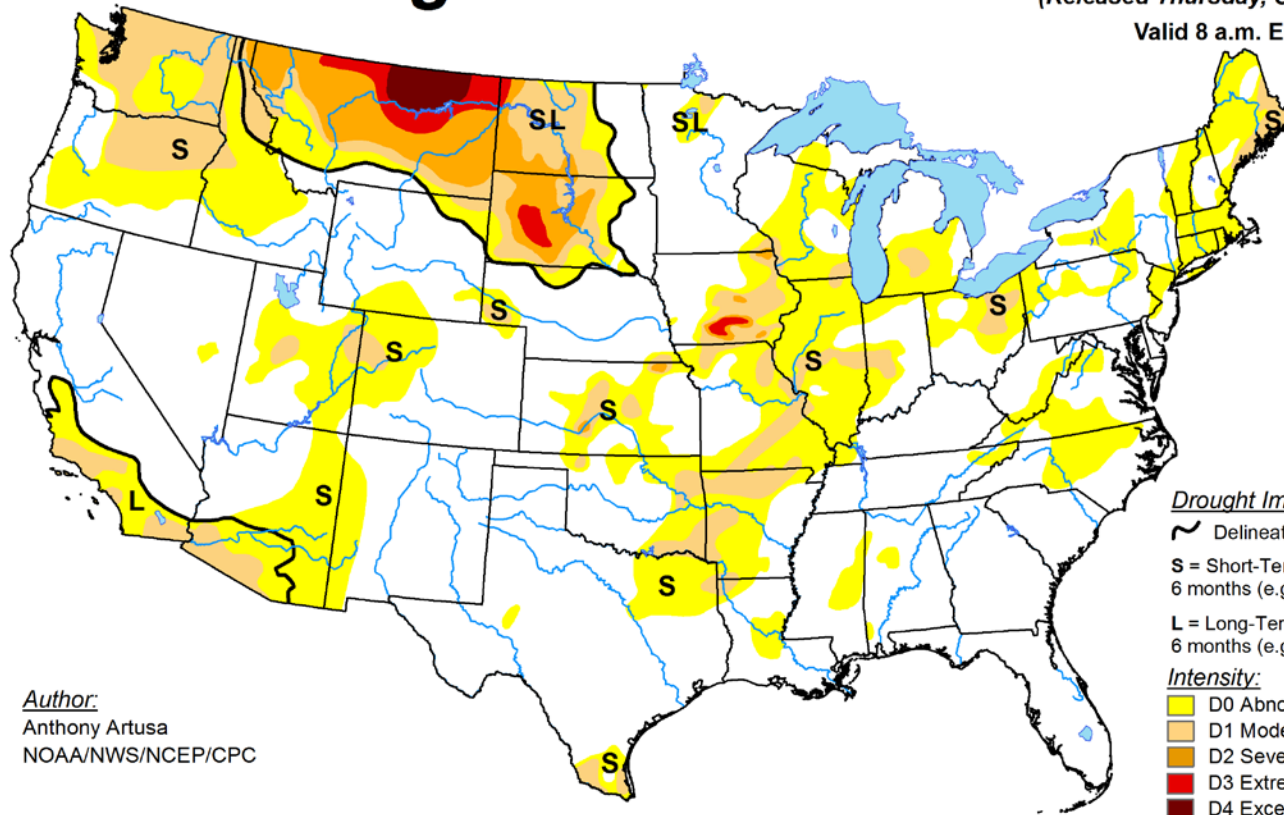
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DEPARTMENT OF EXTENSION
BYRD POLAR & CLIMATE RESEARCH CENTER
DEPARTMENT OF GEOGRAPHY

U.S. Drought Monitor

October 3, 2017
(Released Thursday, Oct. 5, 2017)

Valid 8 a.m. EDT



Author:
Anthony Artusa
NOAA/NWS/NCEP/CPC

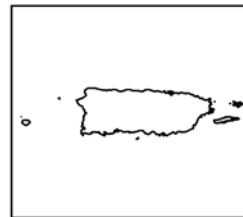
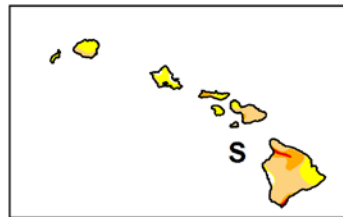
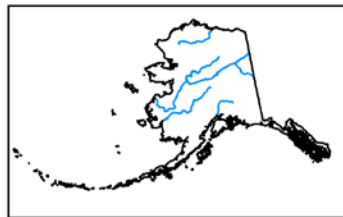
Drought Impact Types:

- ~ 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:

- 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/>

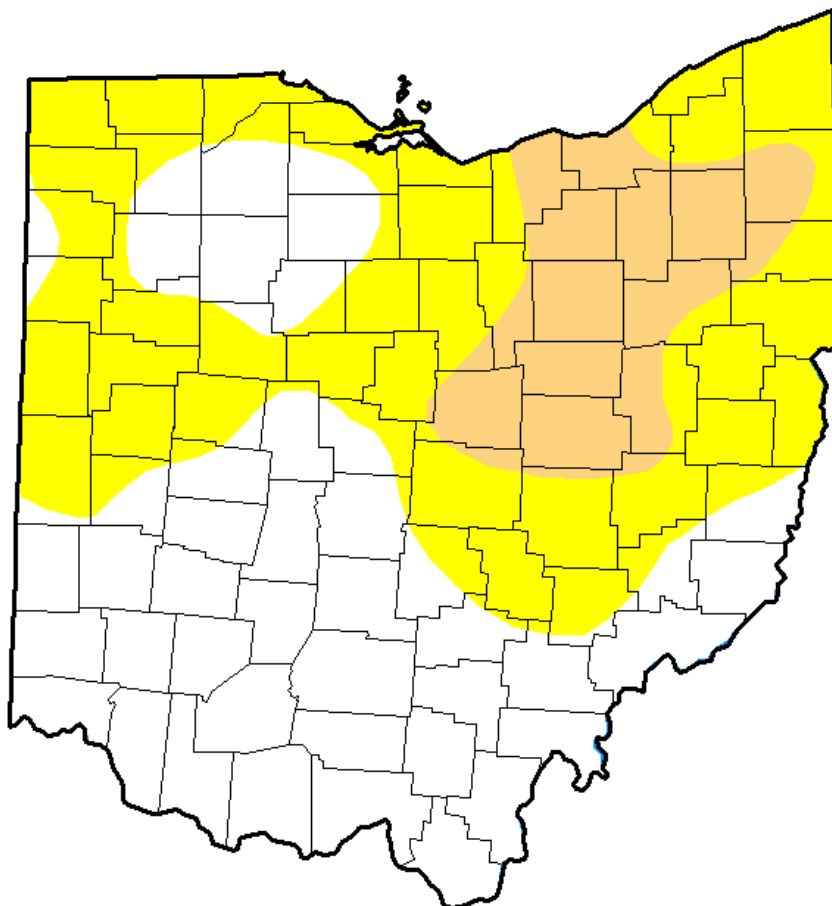


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U.S. Drought Monitor Ohio

October 3, 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 <i>09-26-2017</i>	71.57	28.43	3.85	0.00	0.00	0.00
3 Months Ago <i>07-04-2017</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>09-26-2017</i>	71.57	28.43	3.85	0.00	0.00	0.00
One Year Ago <i>10-04-2016</i>	81.81	18.19	0.00	0.00	0.00	0.00

Intensity:

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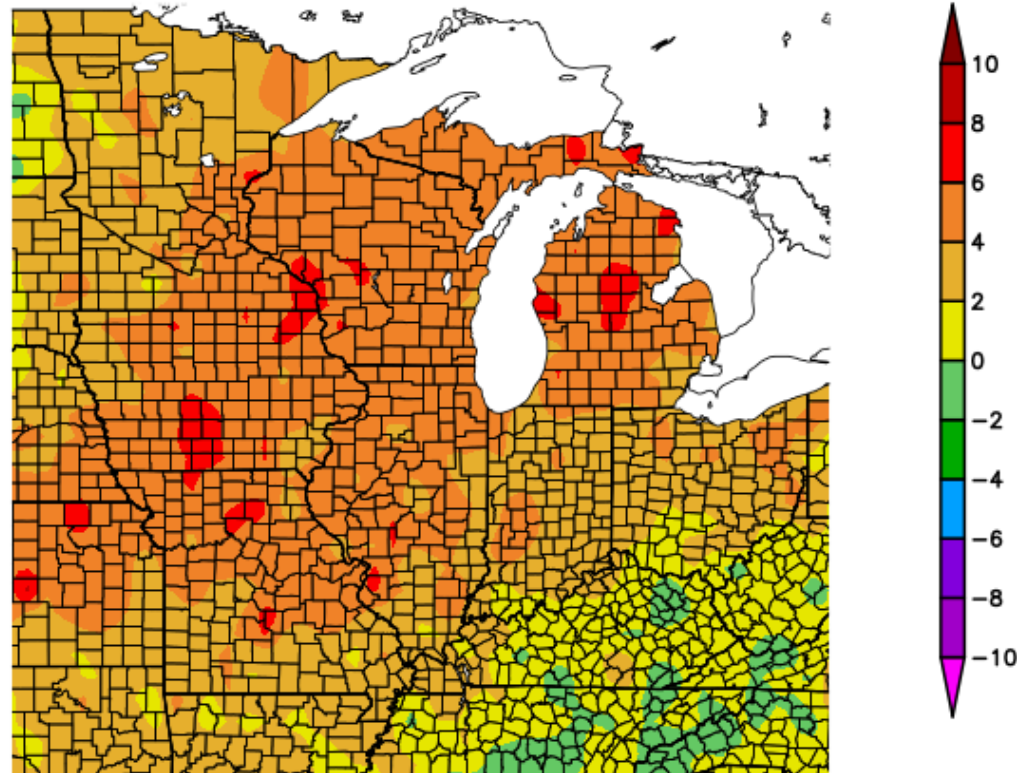


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Previous 30-Day Temperature Difference Compared to Average (1981-2010)

Departure from Normal Temperature (F)
9/5/2017 - 10/4/2017



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

Generated 10/5/2017 at HPRCC using provisional data.

NOAA Regional Climate Centers



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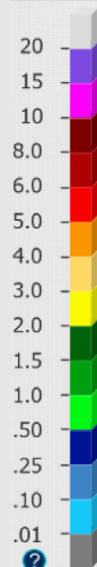
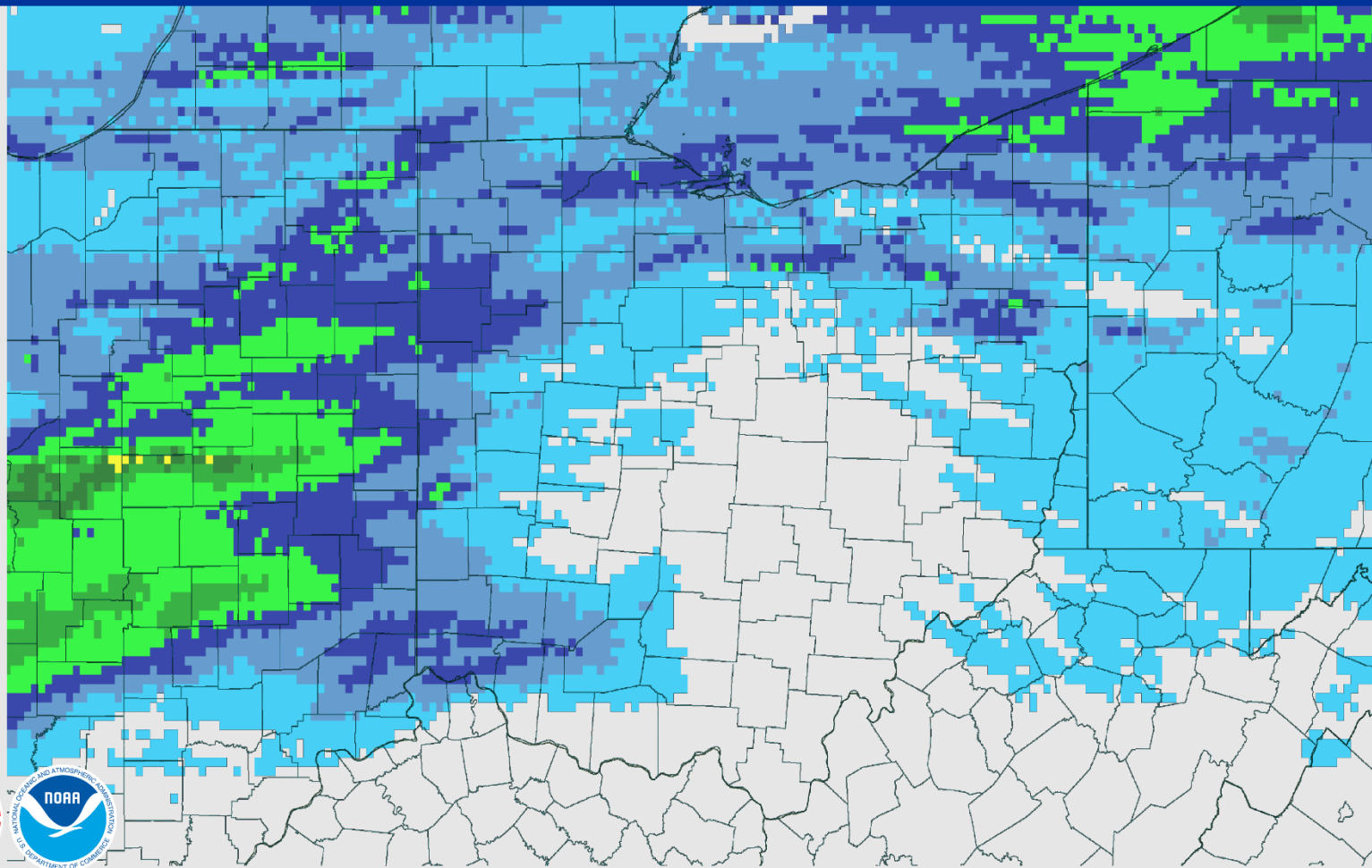
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Previous 7-Day Precipitation: Total

October 05, 2017 7-Day Observed Precipitation

Created on: October 05, 2017 - 15:56 UTC

Valid on: October 05, 2017 12:00 UTC



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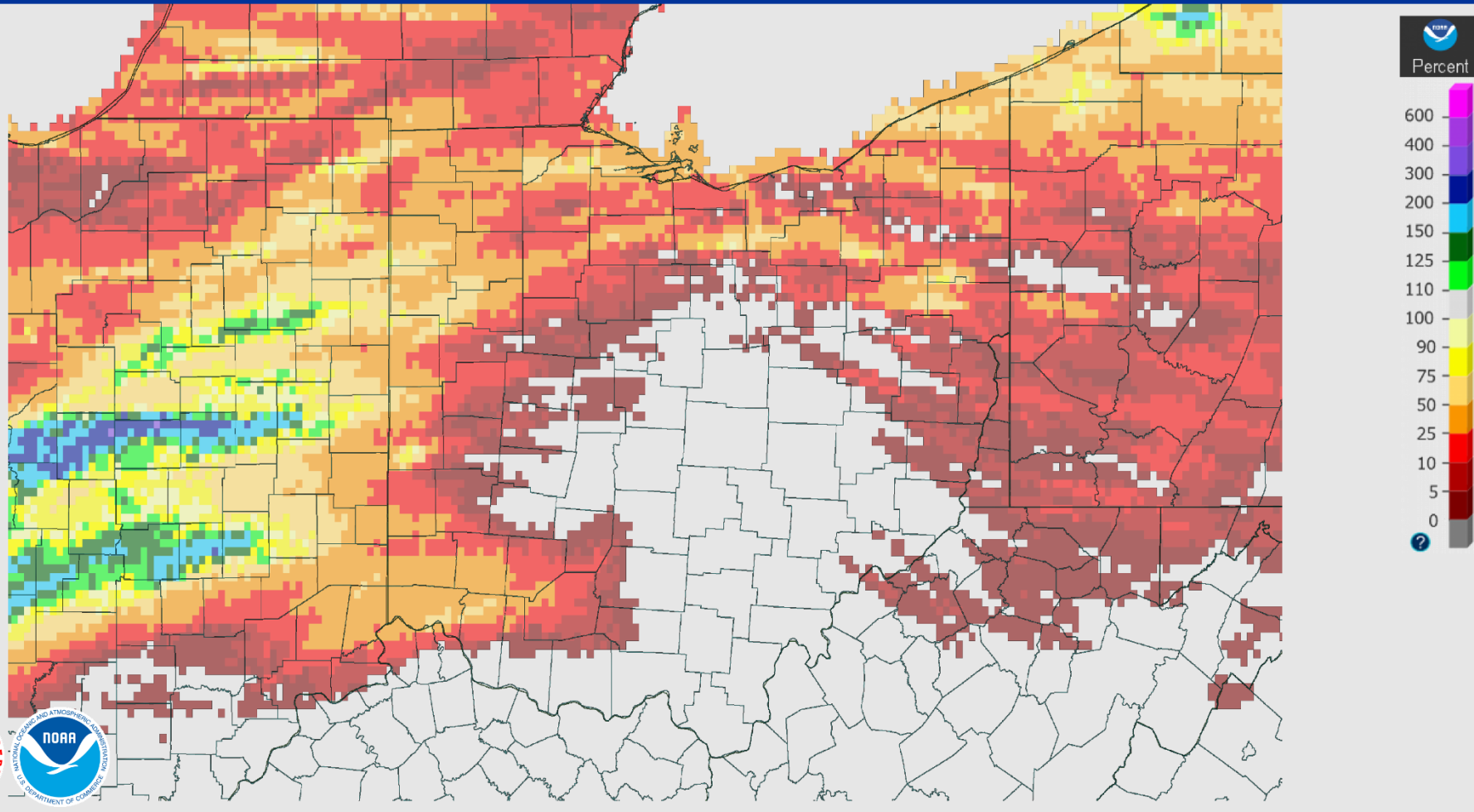
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Previous 7-Day Precipitation: Percent of Normal

October 05, 2017 7-Day Percent Precipitation

Created on: October 05, 2017 - 15:56 UTC

Valid on: October 05, 2017 12:00 UTC

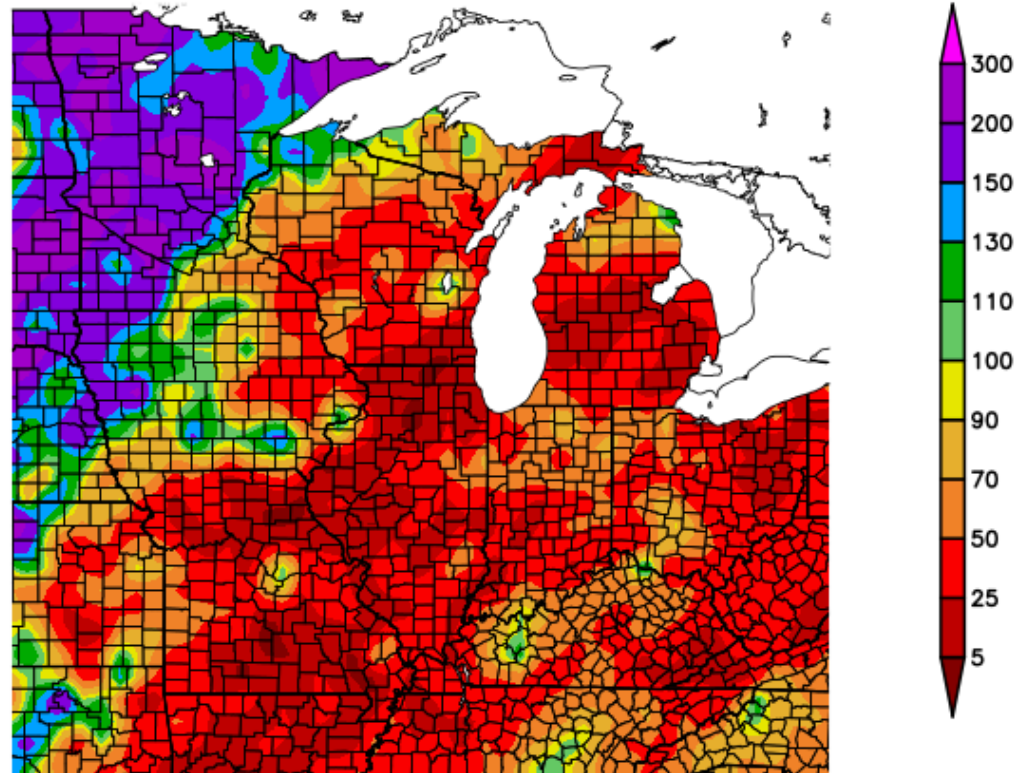


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Previous 30-Day Precipitation Difference Compared to Average (1981-2010)

Percent of Normal Precipitation (%)
9/5/2017 - 10/4/2017



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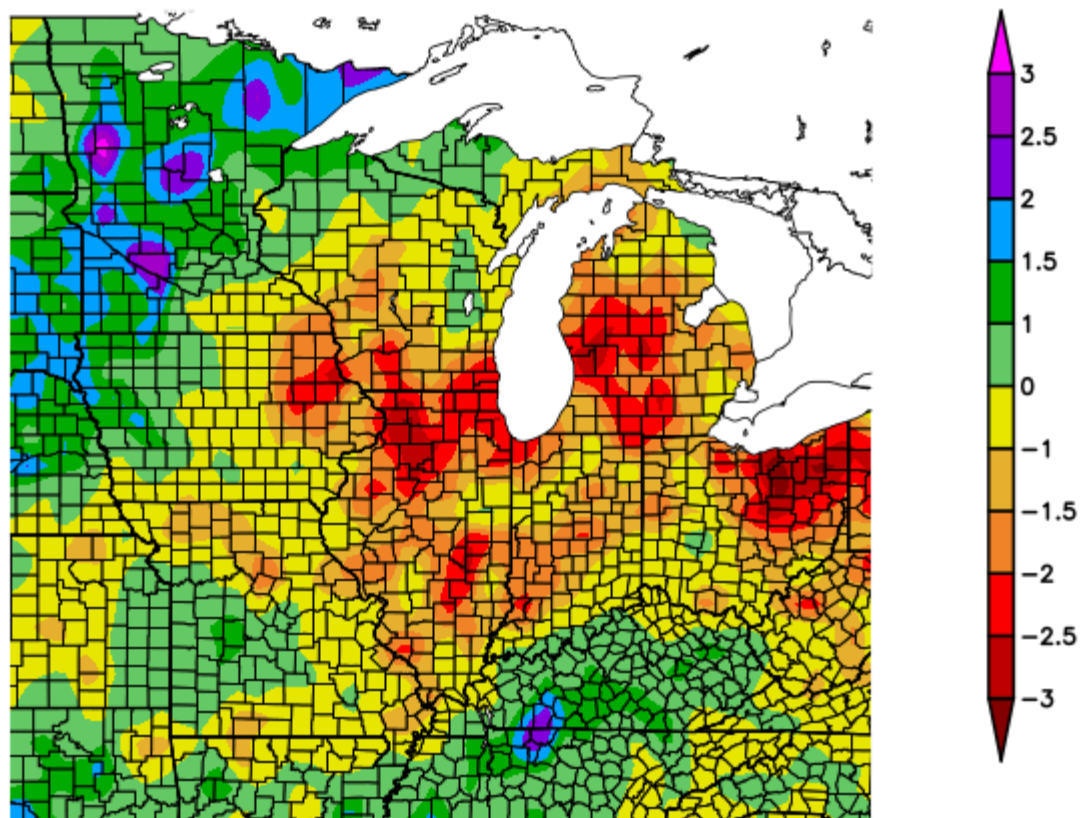
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Standard Precipitation Index (SPI)

60 Day SPI
8/6/2017 - 10/4/2017

60-Day



Generated 10/5/2017 at HPRCC using provisional data.

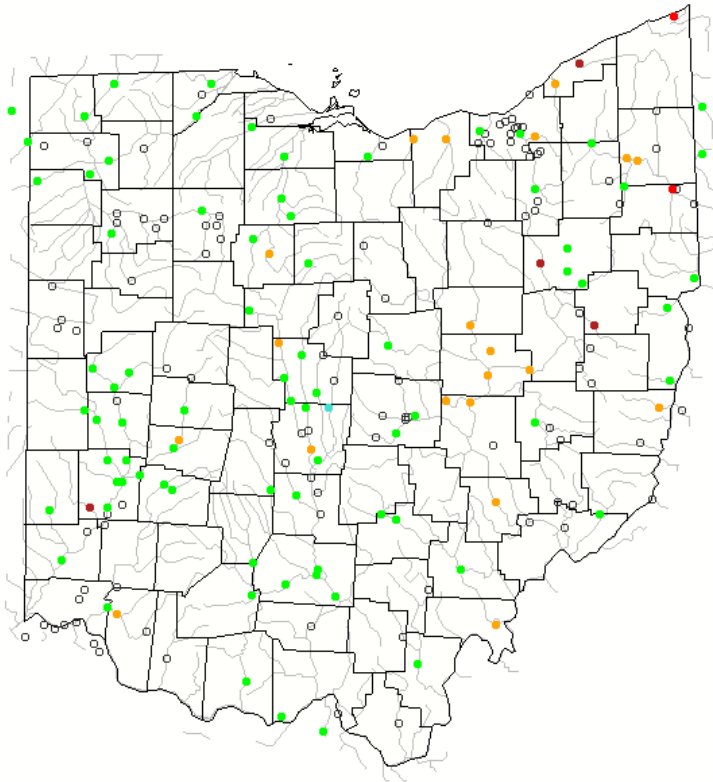
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7-DAY



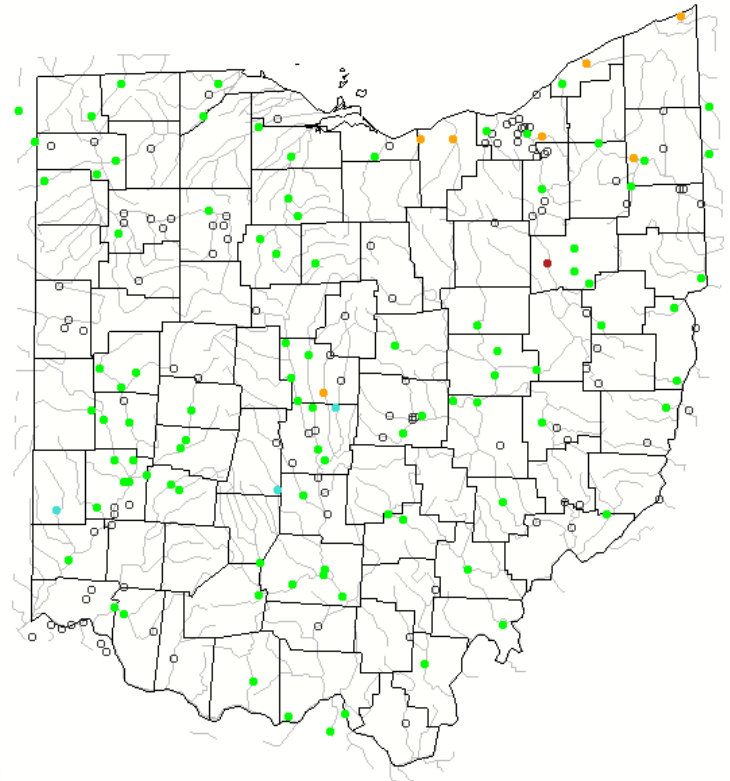
Explanation - Percentile classes

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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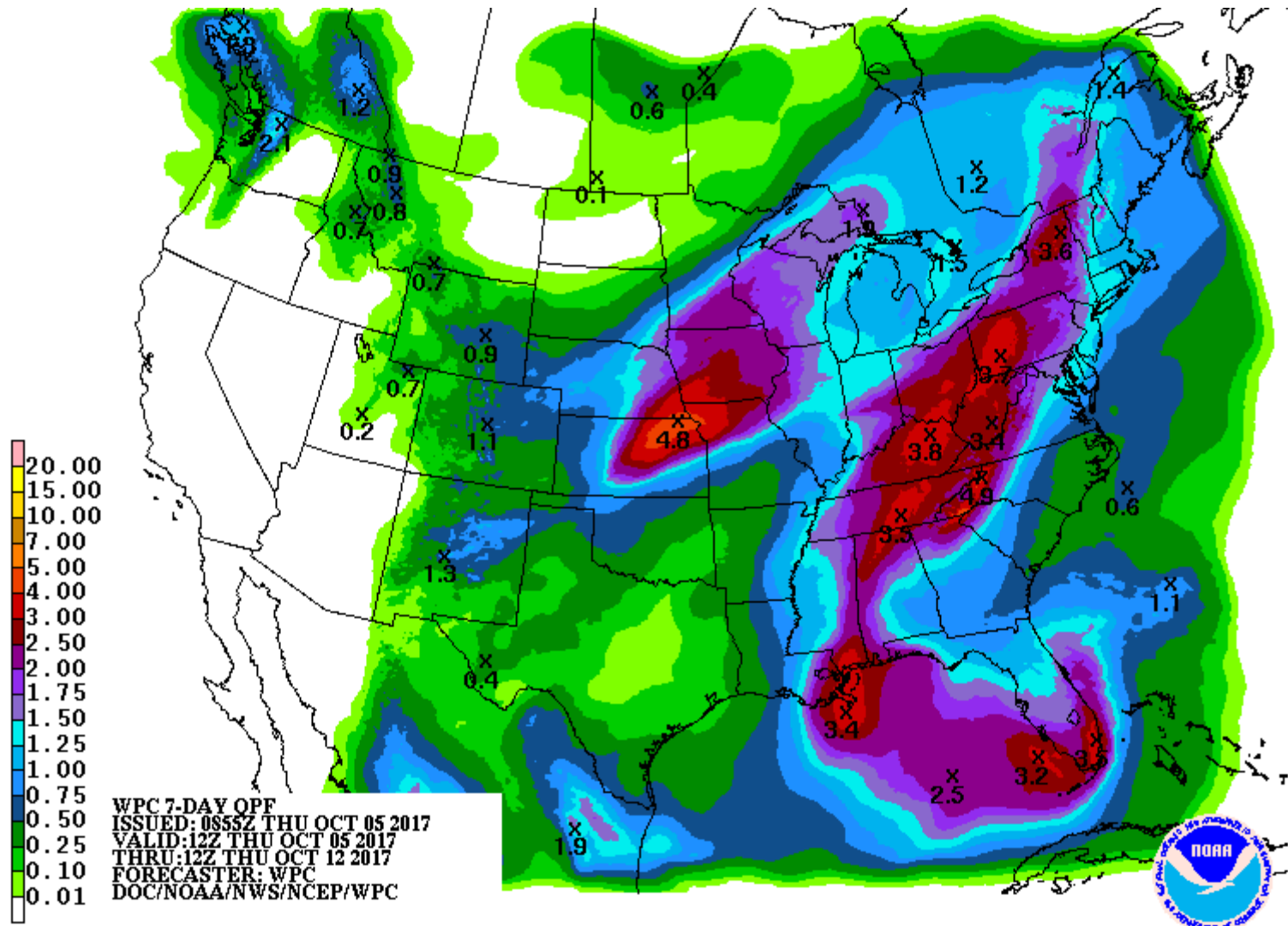
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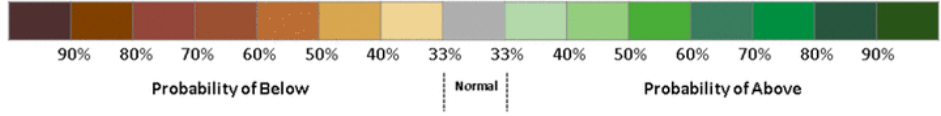
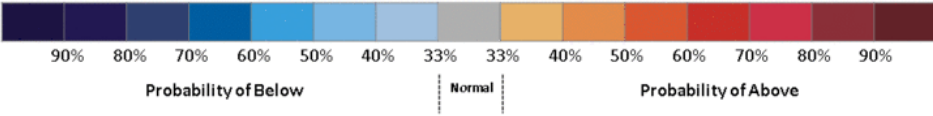
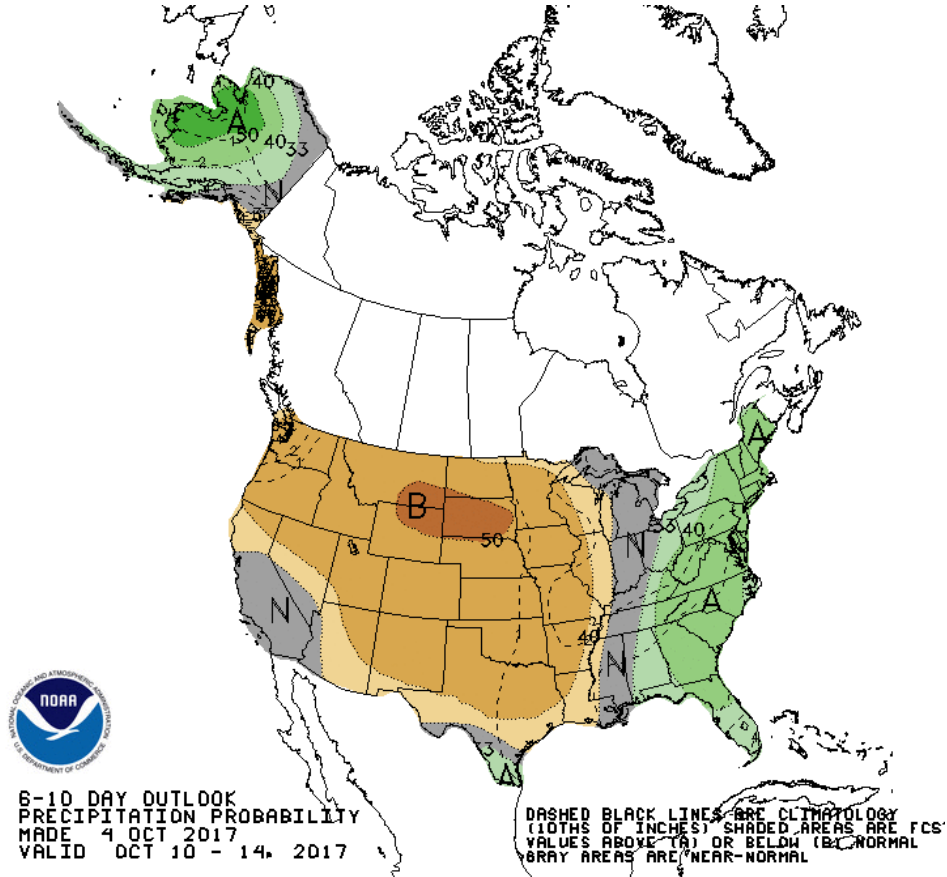
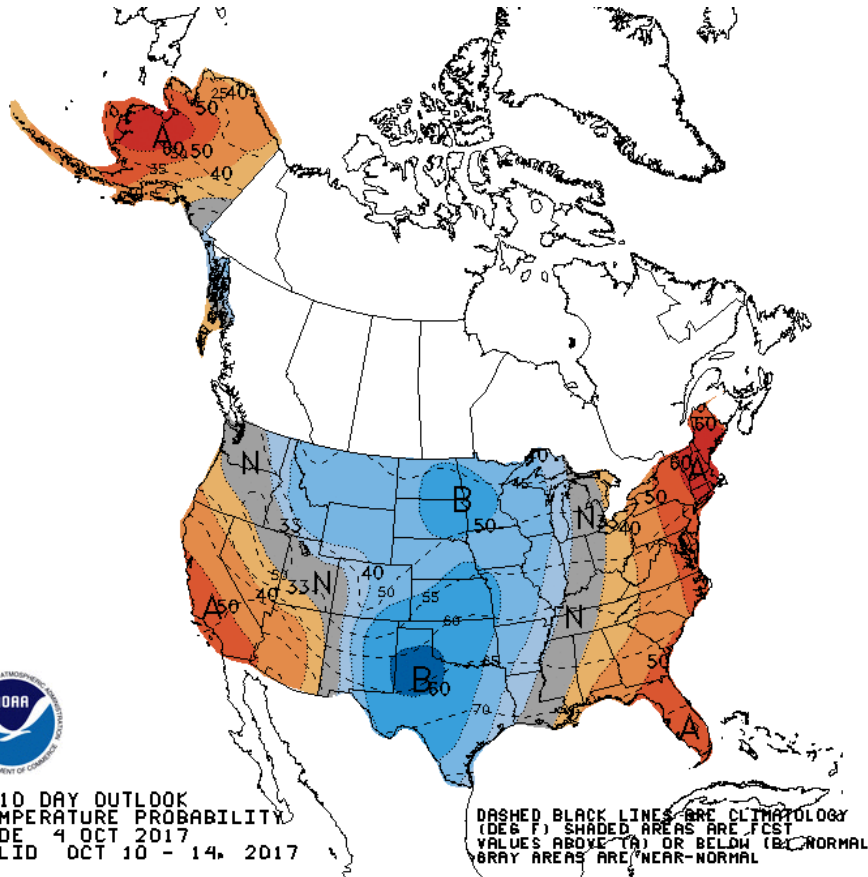
Weather for the Week Ahead



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6-10 Day Outlook



Highs: Mid to Upper 60s

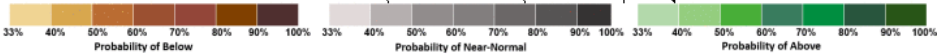
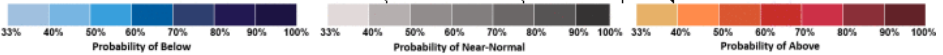
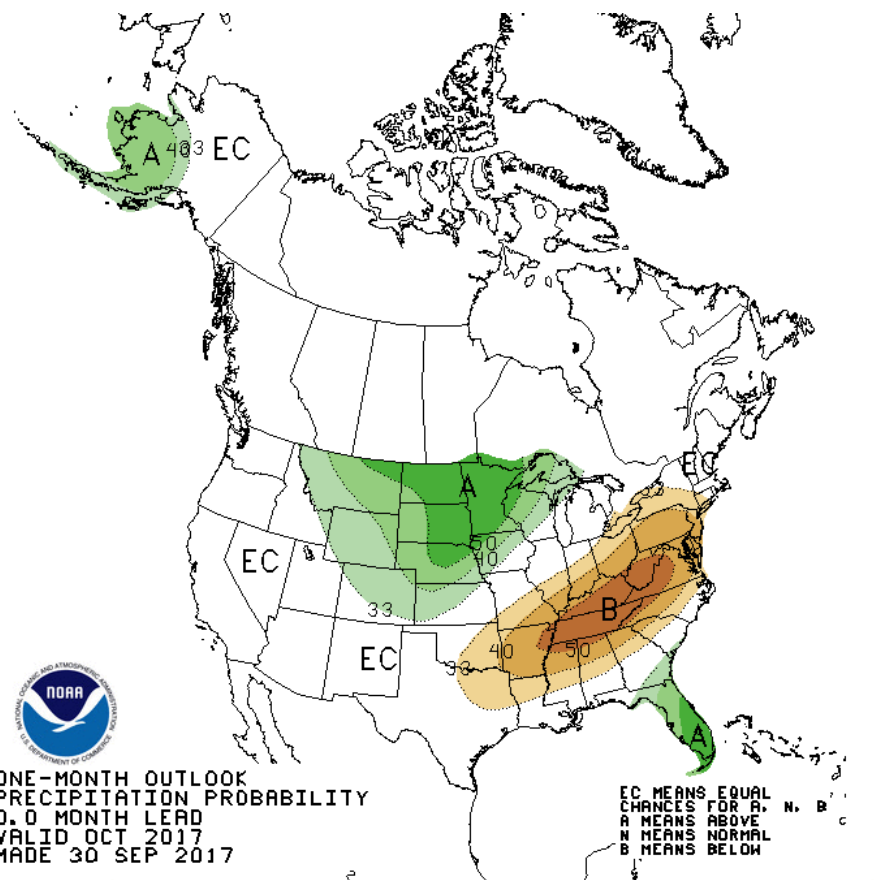
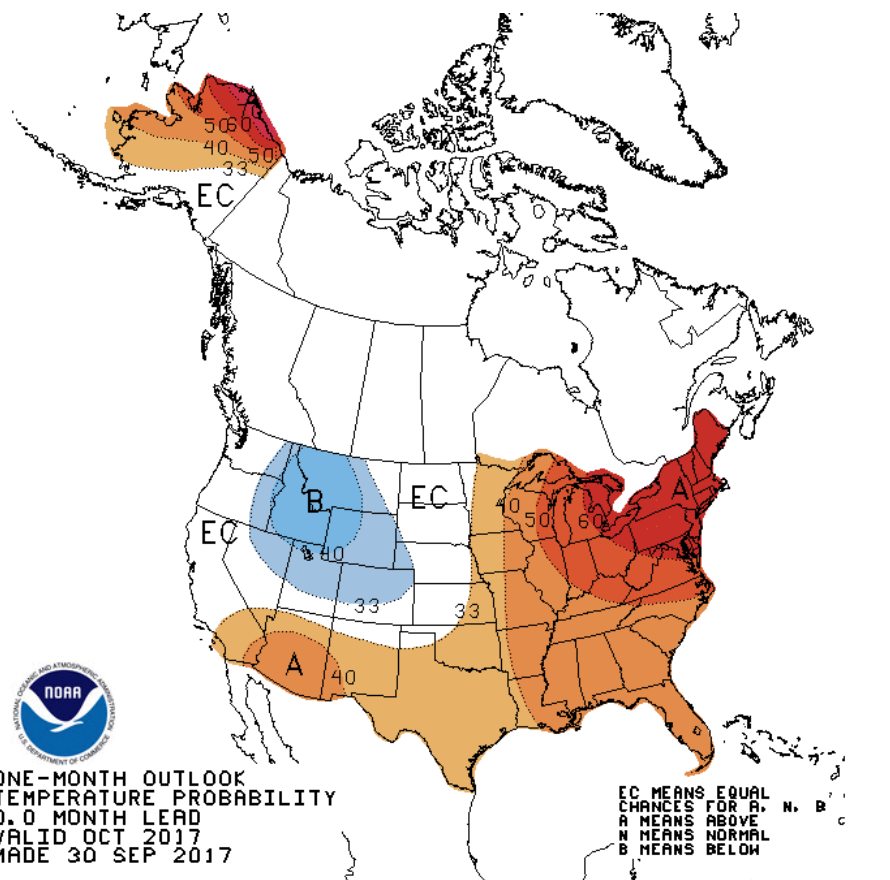
Lows: Mid to Upper 40s



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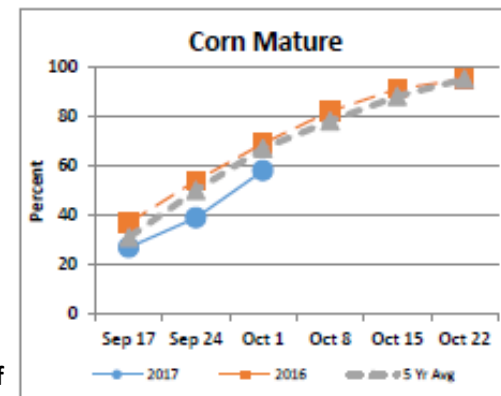
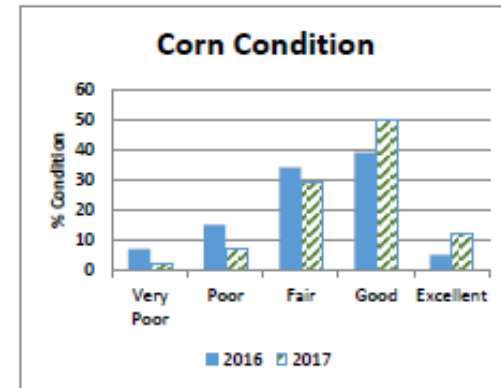
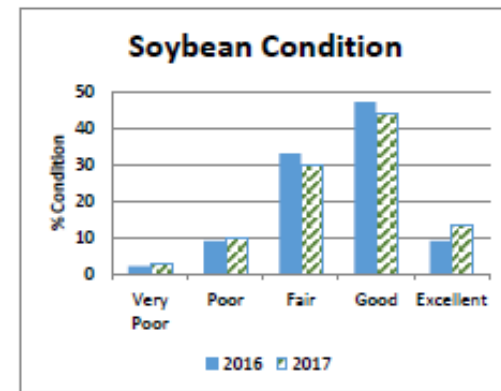
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October Outlook



Ag Highlights

- 6.8 days suitable for fieldwork
- Really dry weather - measures to minimize shattering and splits; Reports of combine fires
- Many are reporting better than expected yields - focus on soybeans
- Pasture conditions continued to decline



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: Expanding D1 Drought conditions across the NE; D0 south

30-Day and 60-Day: Many areas < 50% of precipitation

The week ahead: Wet Weather Thursday; Hurricane Nate next week?



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