

# Hydrologic and Climate Assessment

July 27, 2017



Photo Credit: Ben Gelber – Meteorologist @  
NBC4 Columbus, Ohio



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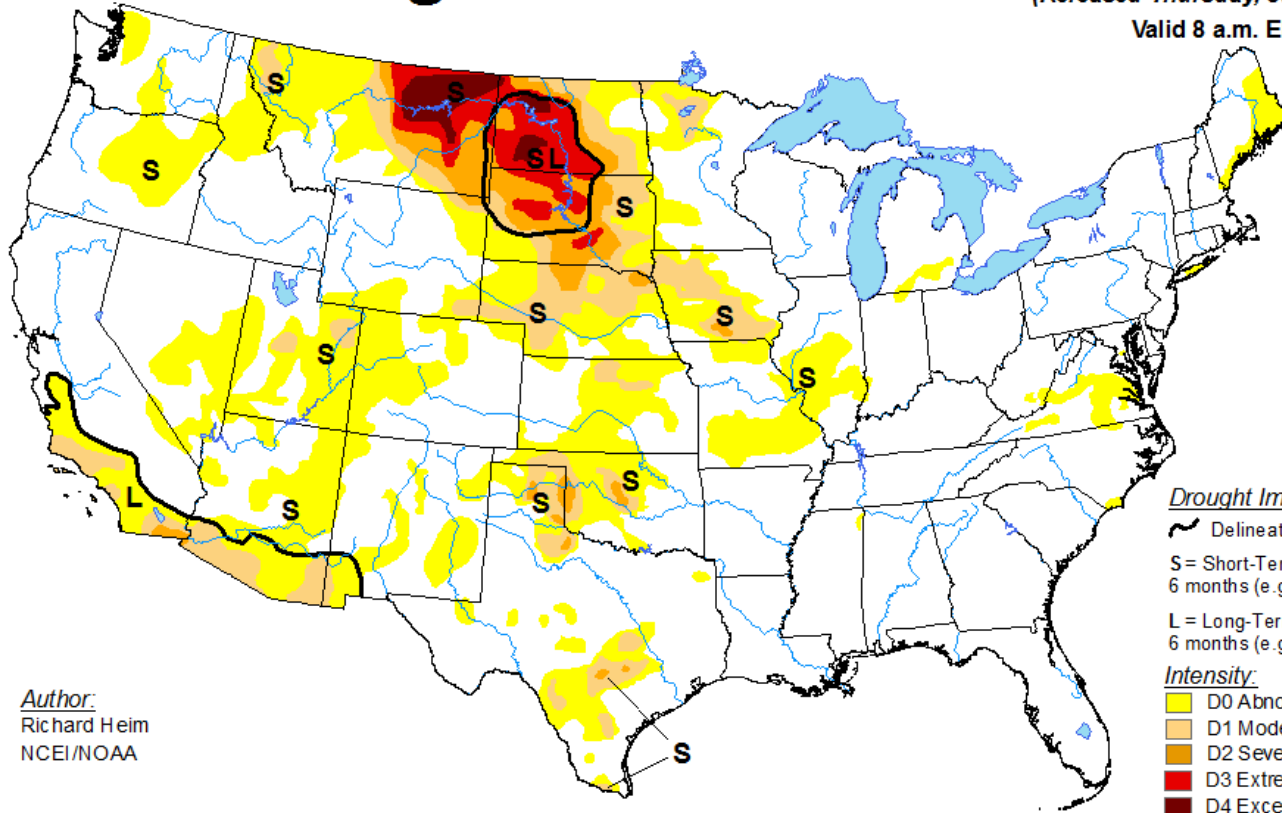
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# U.S. Drought Monitor

July 25, 2017

(Released Thursday, Jul. 27, 2017)

Valid 8 a.m. EDT



*Author:*  
Richard Heim  
NCEI/NOAA

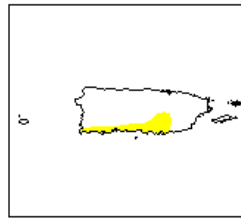
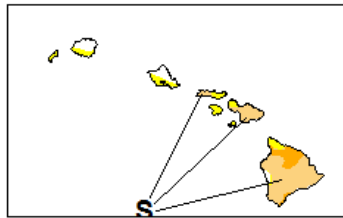
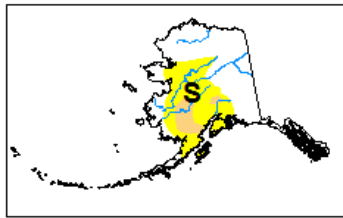
### Drought Impact Types:

- ~ 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
- Dark 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/>

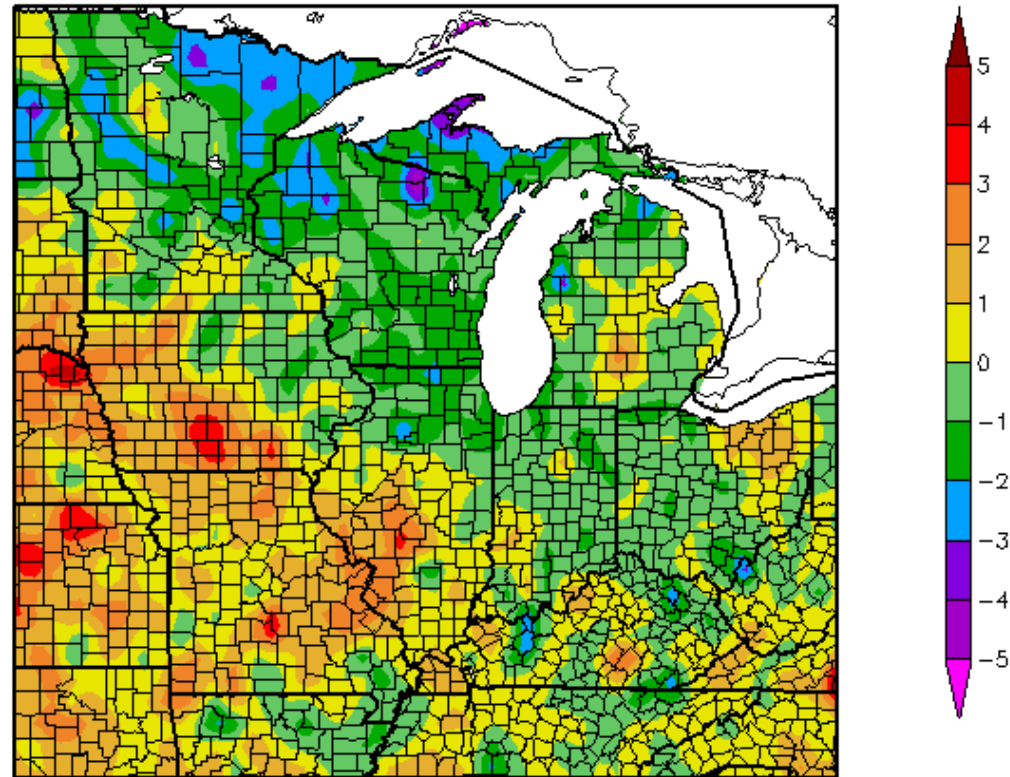


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# Previous 30-Day Temperature Difference Compared to Average (1981-2010)

Departure from Normal Temperature (F)  
6/27/2017 - 7/26/2017



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

Generated 7/27/2017 at HPRCC using provisional data.

Regional Climate Centers

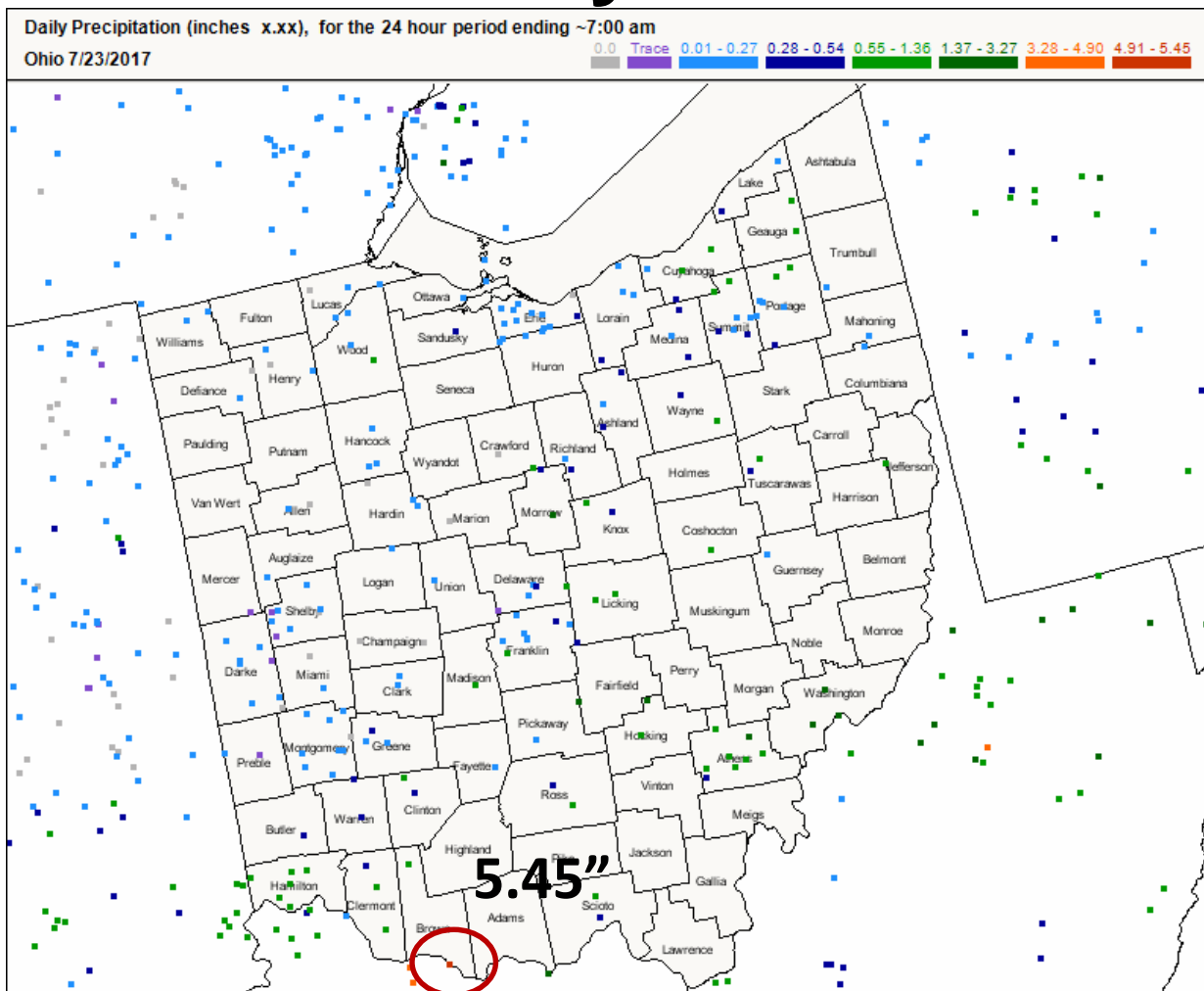


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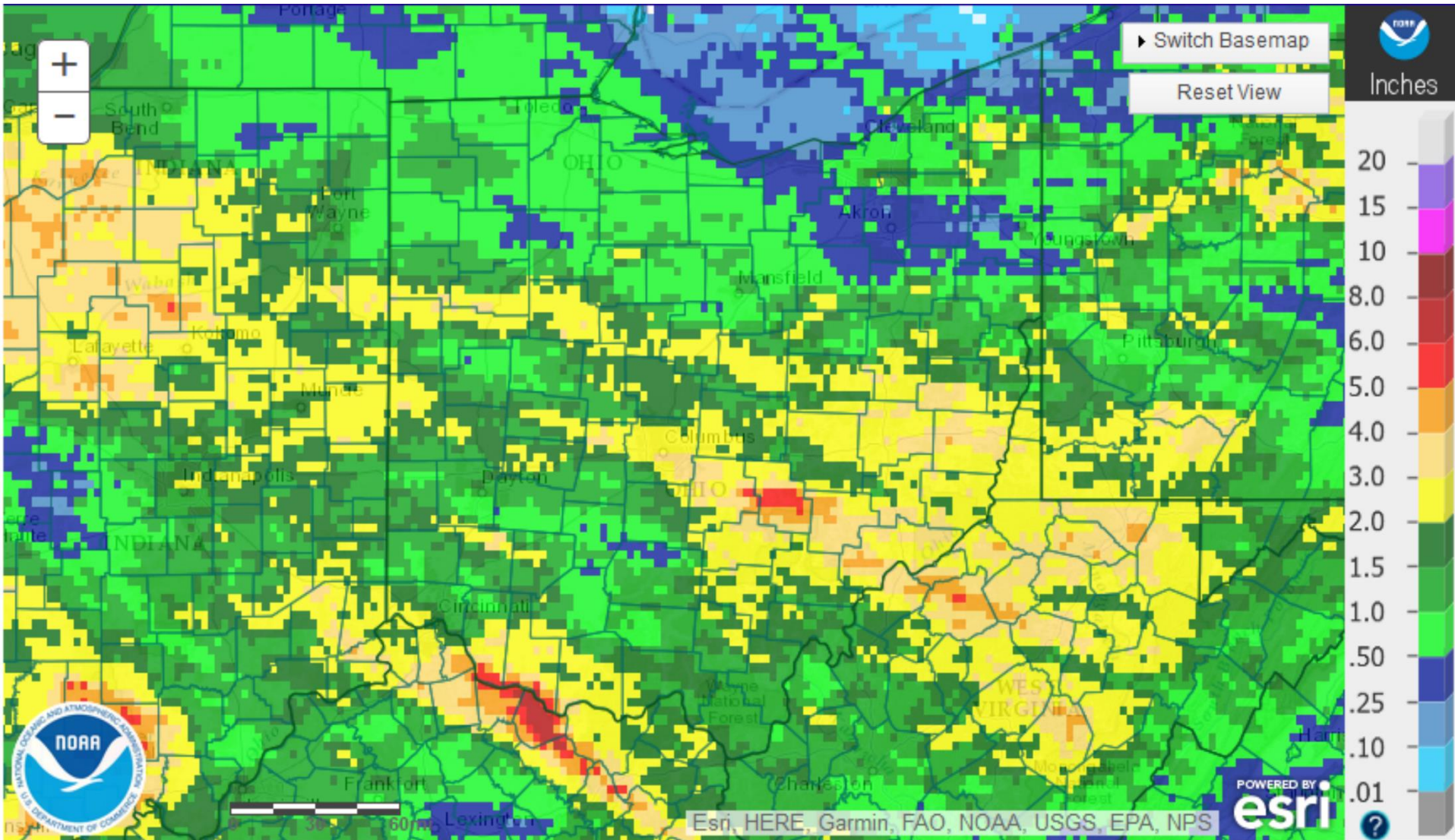
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# CoCoRaHS Observed Precipitation: July 23



# Previous 7-Day Precipitation: Total



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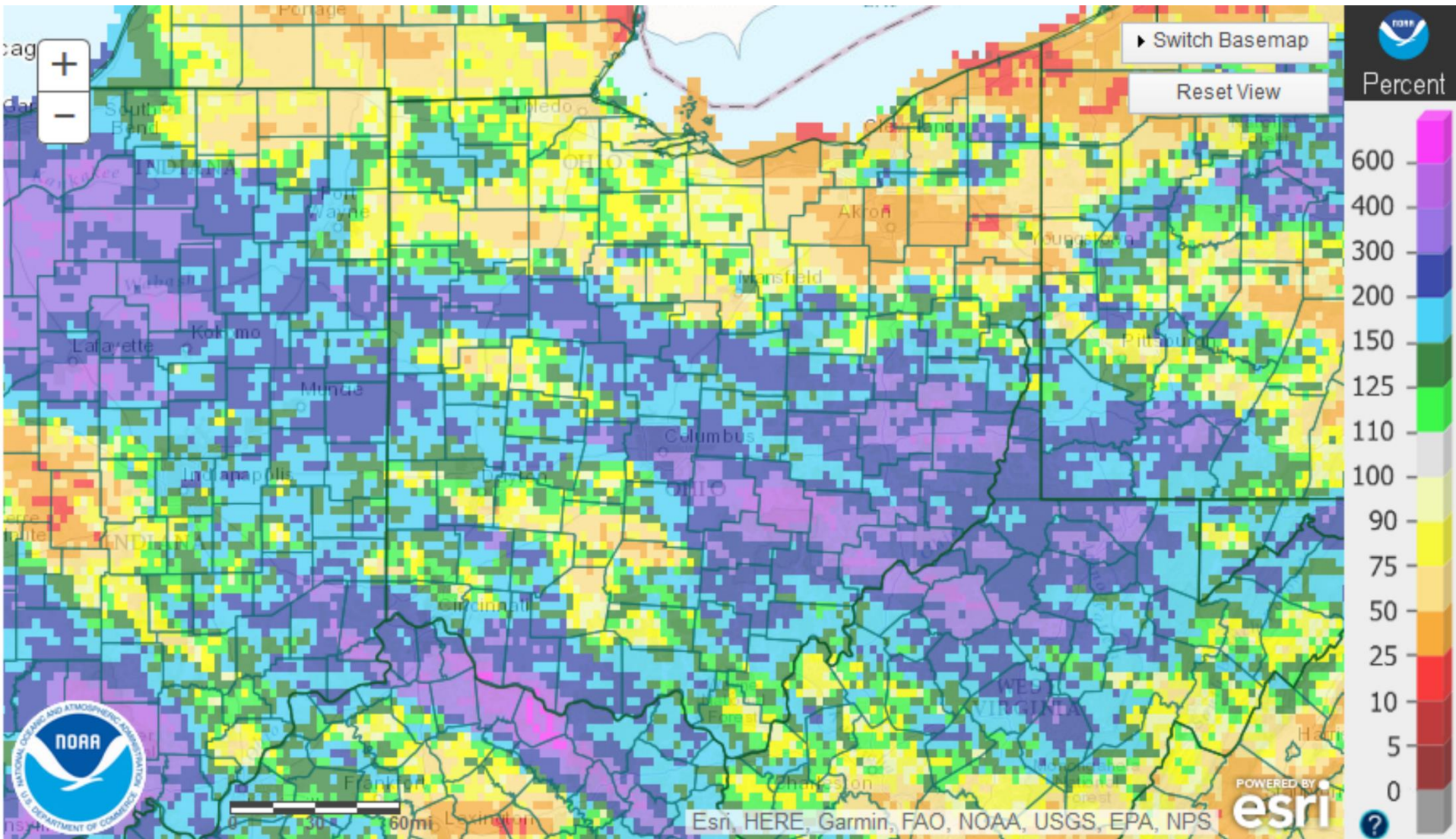
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# Previous 7-Day Precipitation: Percent of Normal



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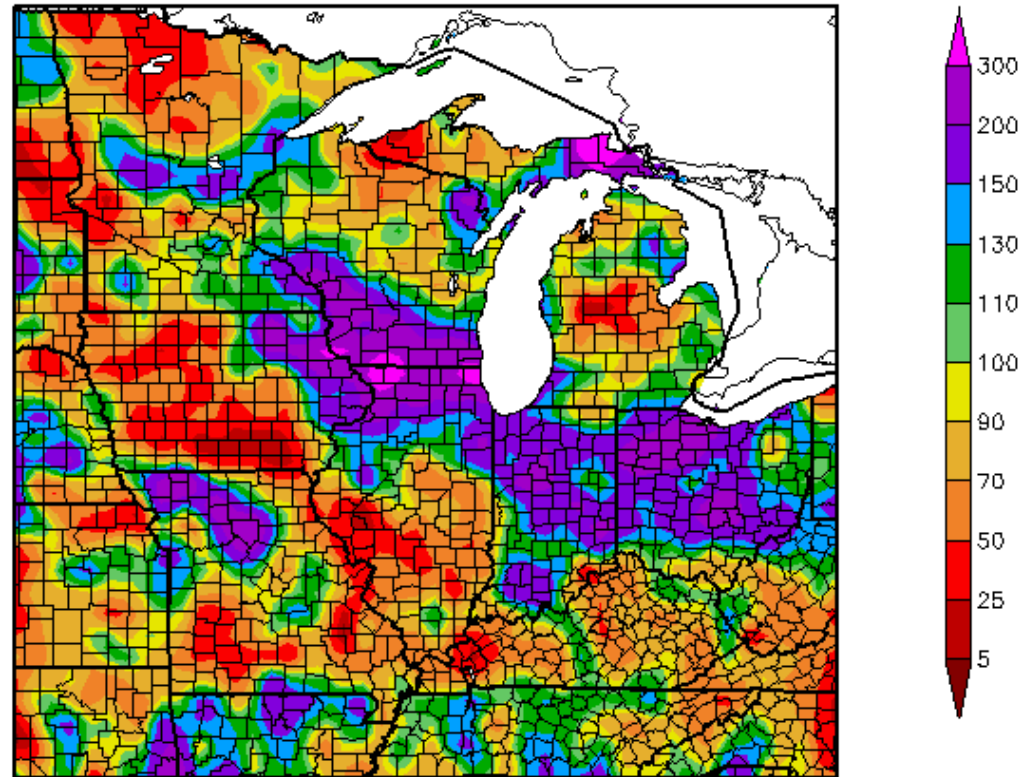
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# Previous 30-Day Precipitation Difference Compared to Average (1981-2010)

Percent of Normal Precipitation (%)  
6/27/2017 - 7/26/2017



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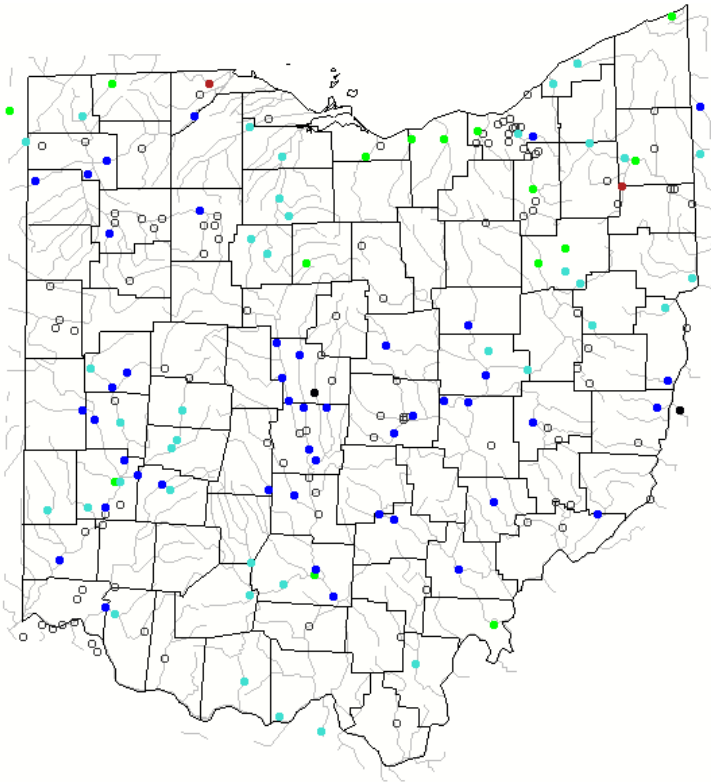
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7-DAY



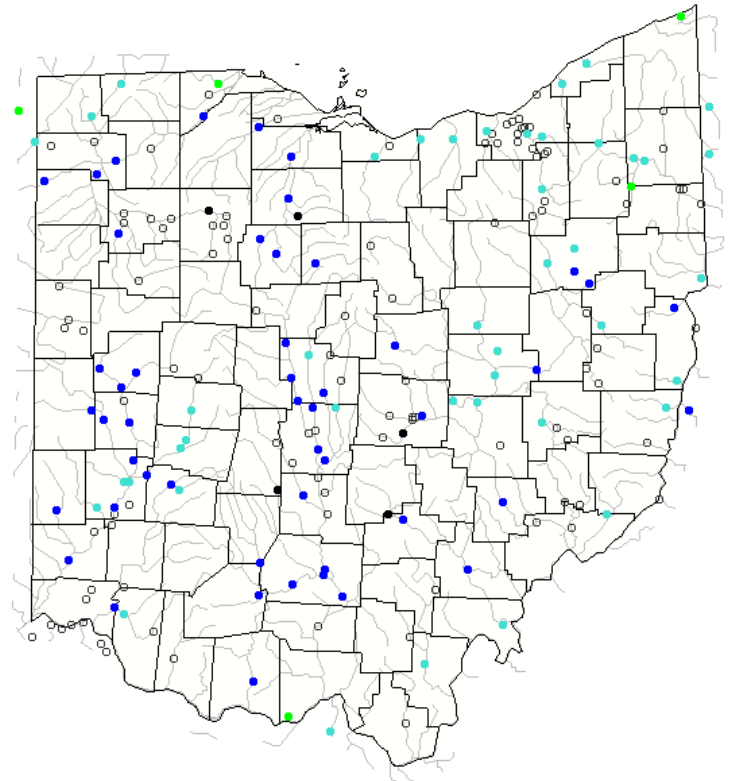
Explanation - Percentile classes

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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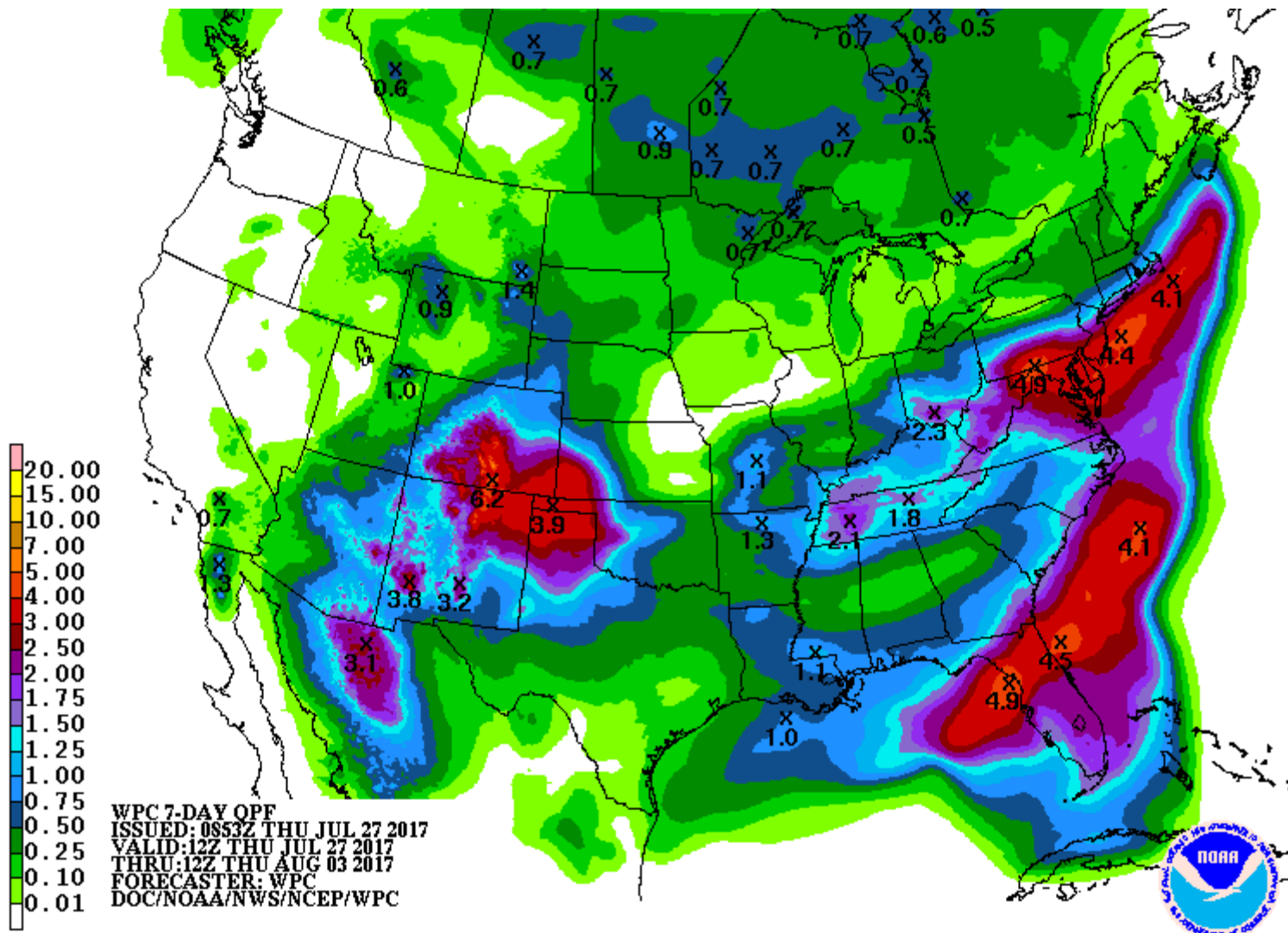
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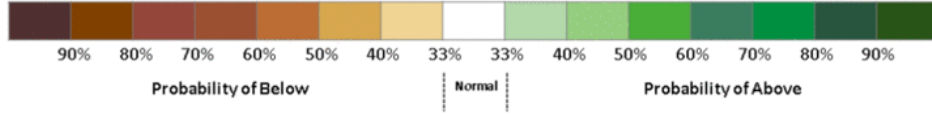
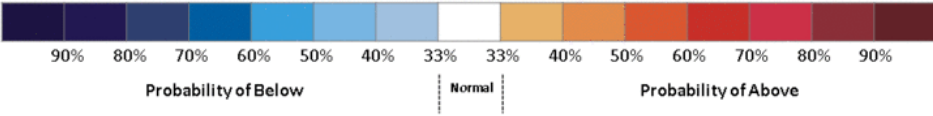
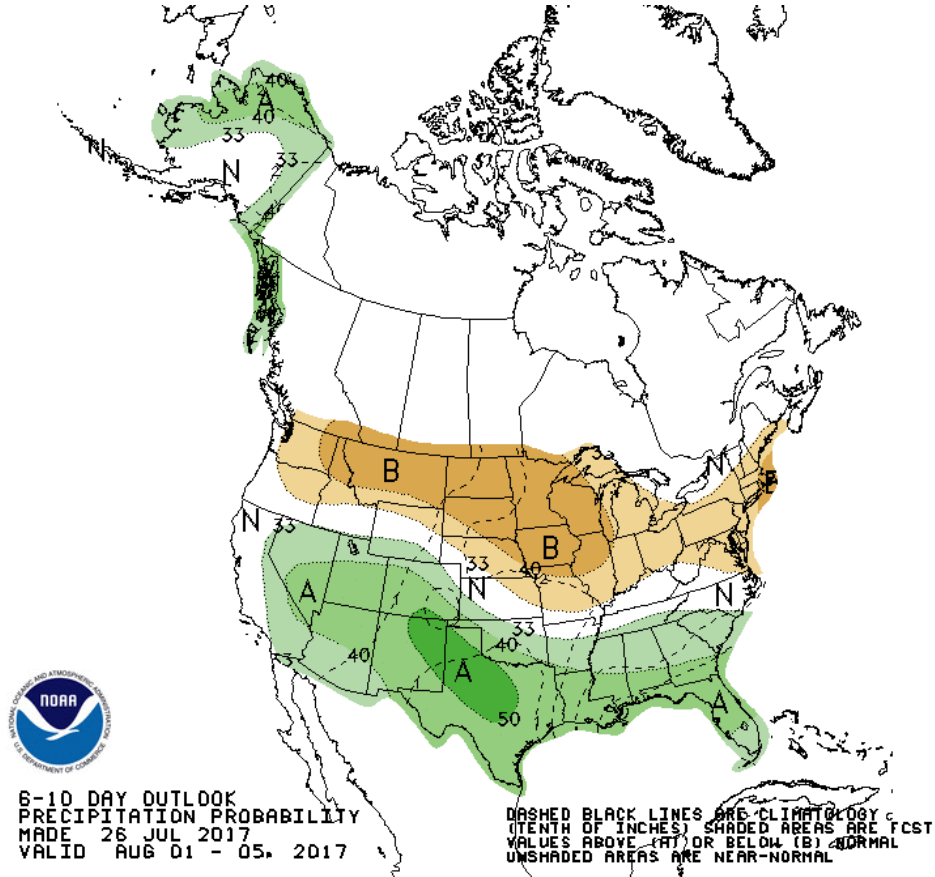
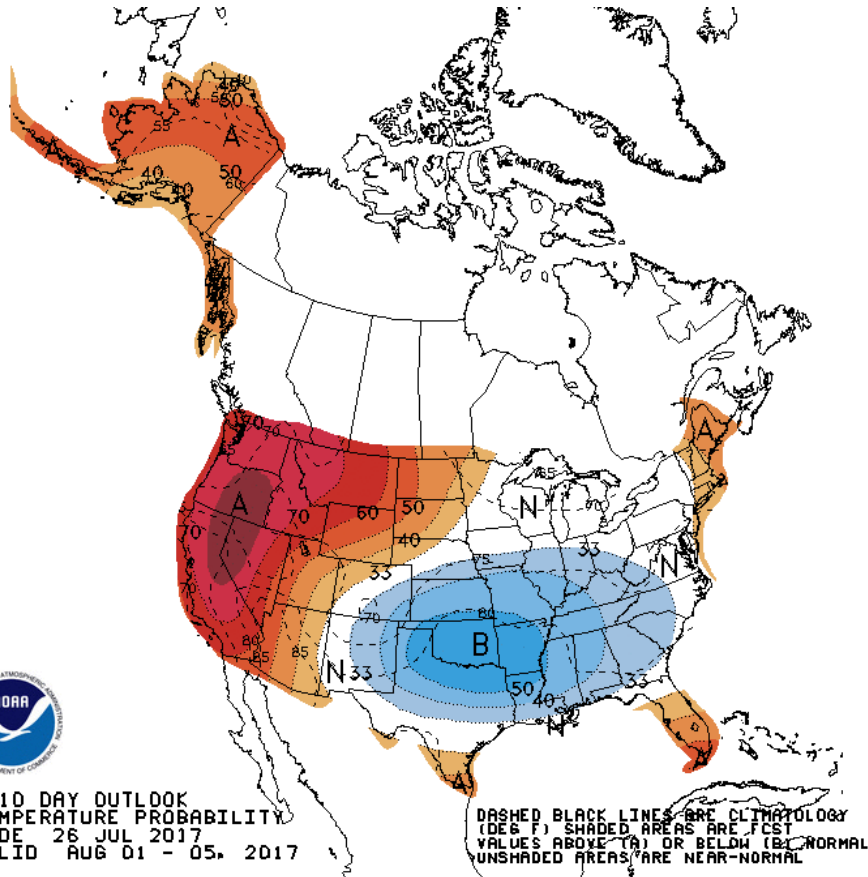
# Weather for the Week Ahead



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# 6-10 Day Outlook



Highs: Low to mid 80s

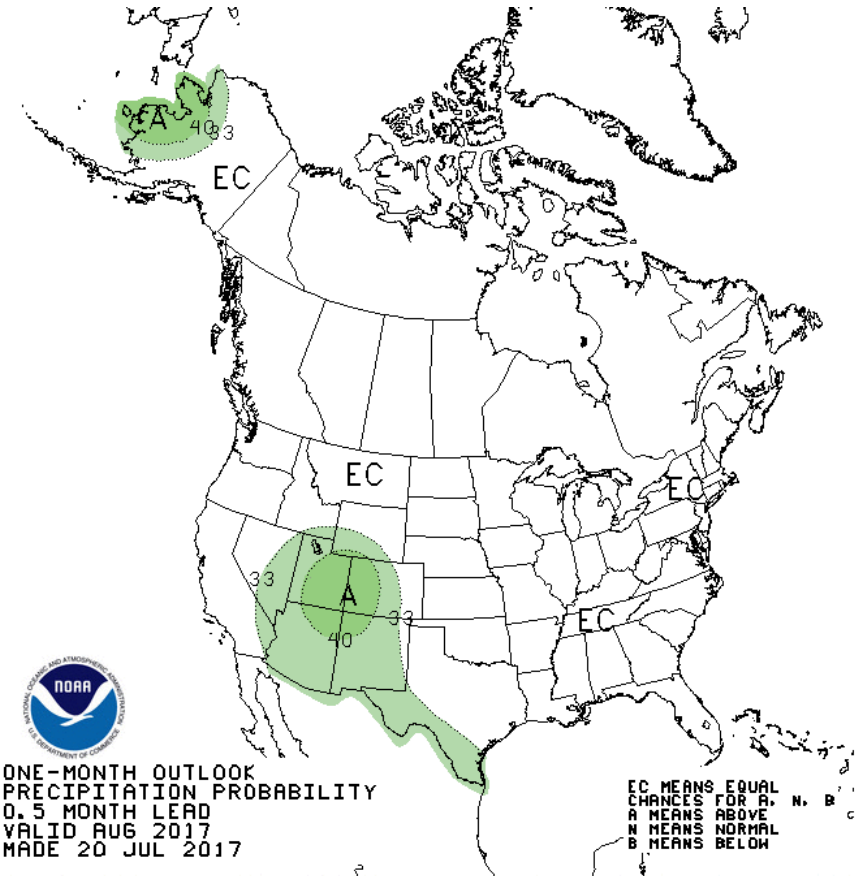
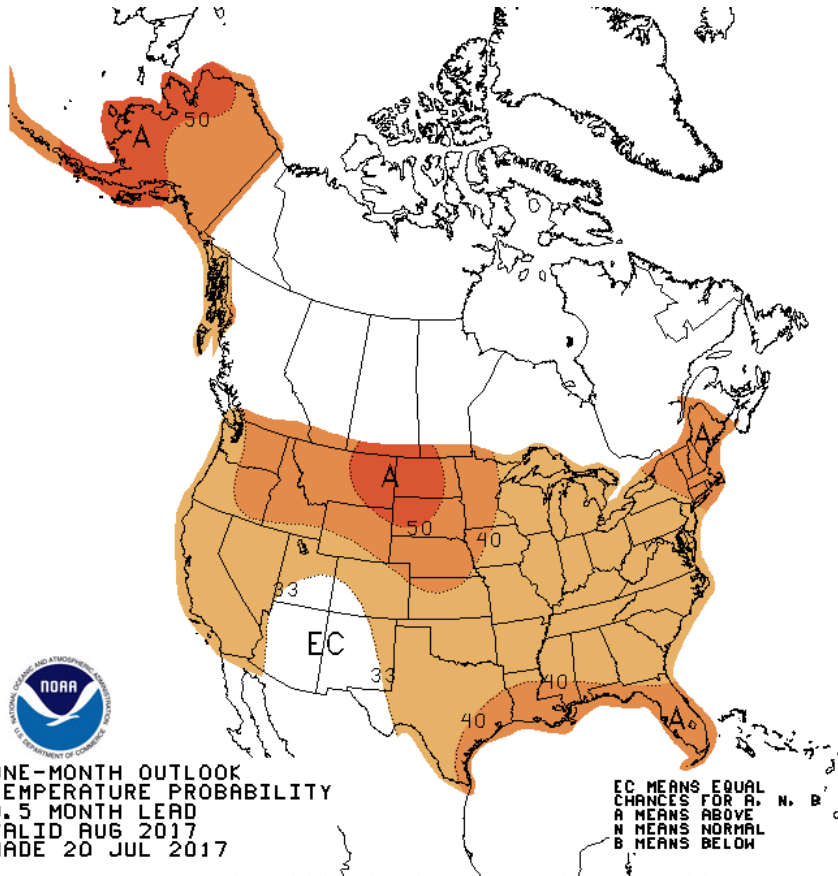
Lows: Mid 60s



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# 6-10 Day Outlook



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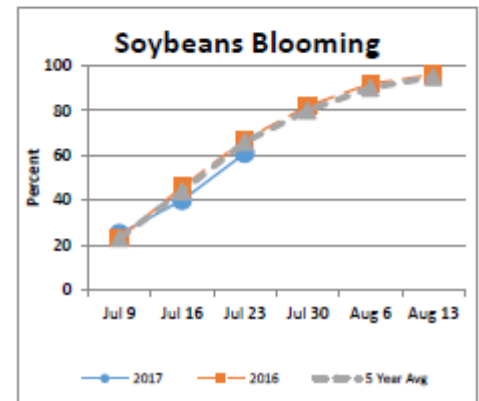
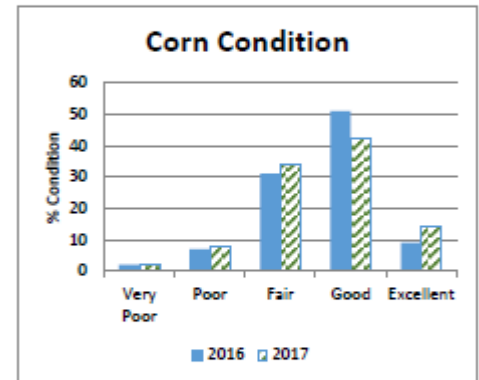
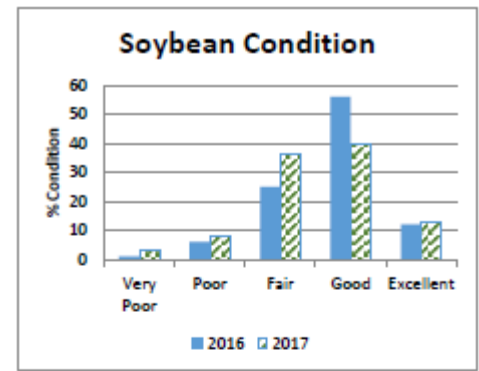
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# Ag Highlights

- More field work in areas that avoided last weeks heaviest rainfall.
- Some fields (soybean) are showing yellowing and some plant death.
- Cutting hay, harvesting wheat, spraying fields, and spreading manure is slowed due to the persistent rain.



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



**Drought Monitor:** Adequate to Surplus Moisture – No Drought

**30-Day and 60-Day:** 1-3x normal; lots of standing water remains

**Precipitation:** Thunderstorms likely today and Friday; Beautiful late July weather ensures this weekend and next week. Let's dry out!



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