

# Hydrologic and Climate Assessment

August 18, 2017

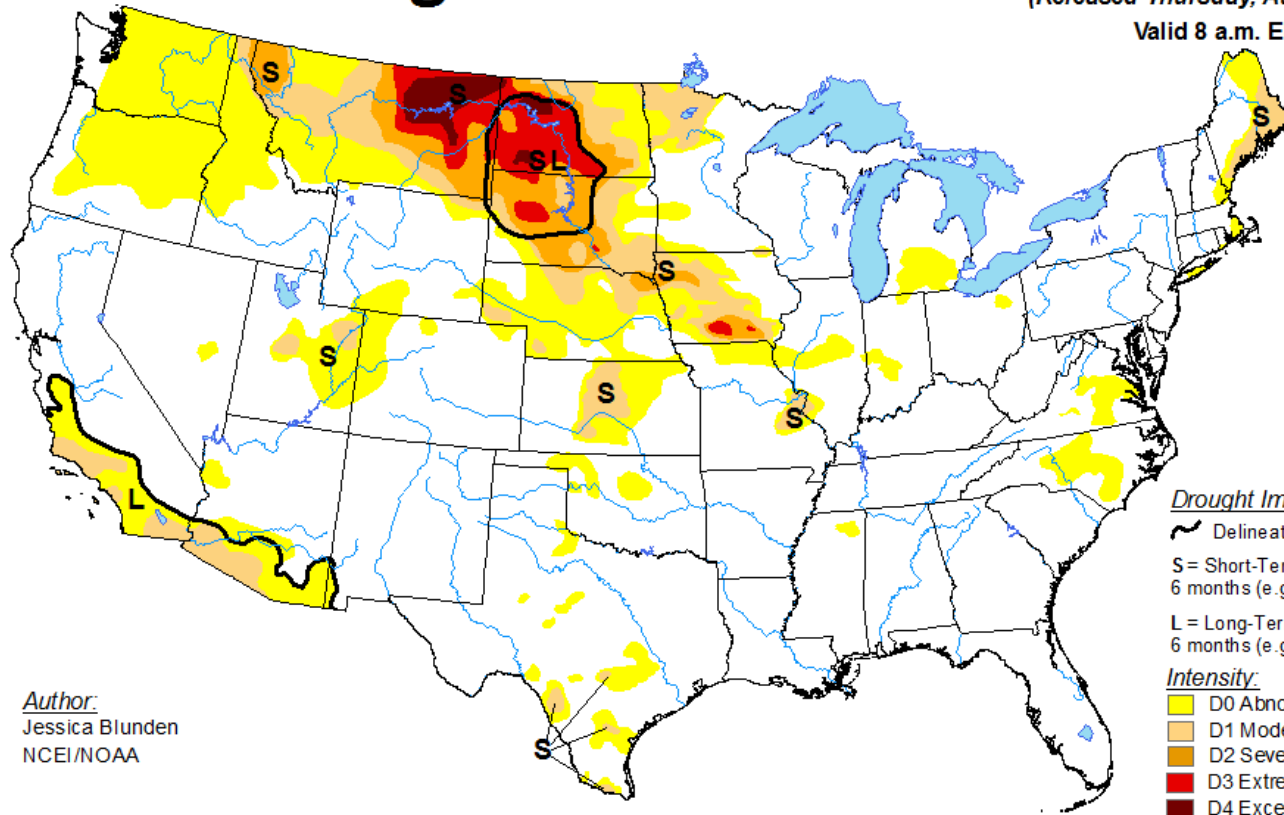


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BYRD POLAR & CLIMATE RESEARCH CENTER  
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# U.S. Drought Monitor

August 15, 2017  
 (Released Thursday, Aug. 17, 2017)  
 Valid 8 a.m. EDT



*Author:*  
 Jessica Blunden  
 NCEI/NOAA

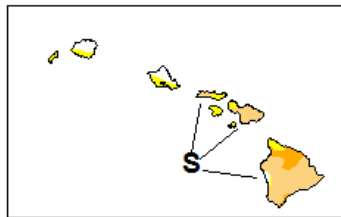
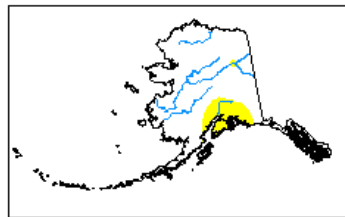
Drought Impact Types:

- ~ 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:

- 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/>

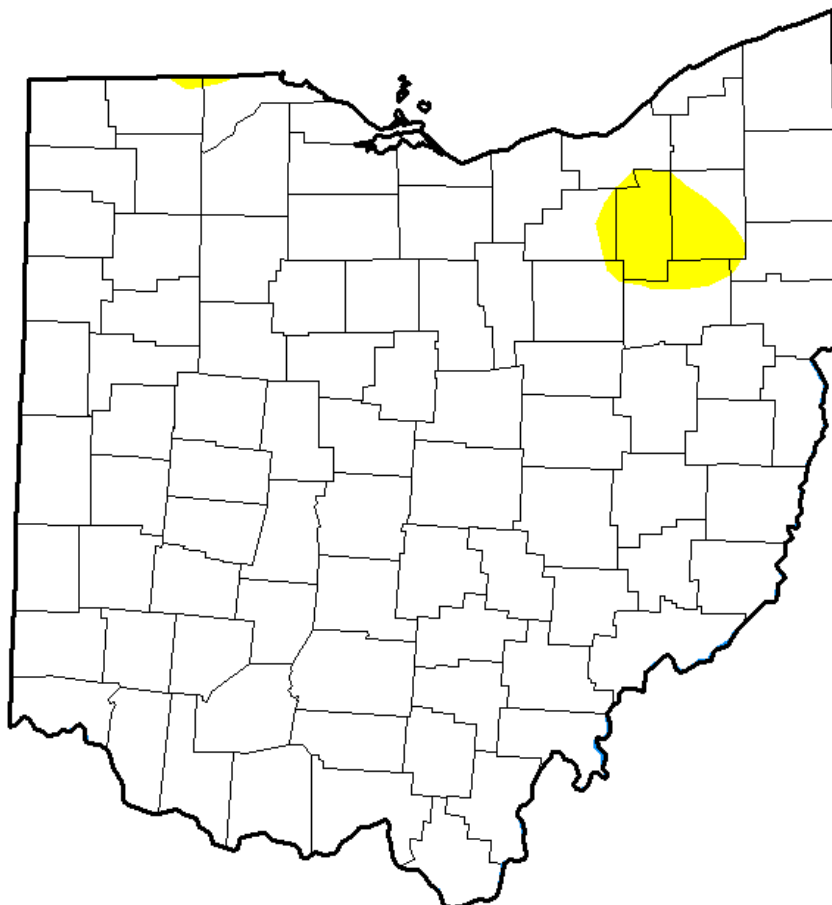


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# U.S. Drought Monitor Ohio

**August 15, 2017**  
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Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
<b>Current</b>	97.47	2.53	0.00	0.00	0.00	0.00
<b>Last Week</b> <i>08-08-2017</i>	100.00	0.00	0.00	0.00	0.00	0.00
<b>3 Months Ago</b> <i>05-16-2017</i>	100.00	0.00	0.00	0.00	0.00	0.00
<b>Start of Calendar Year</b> <i>01-03-2017</i>	88.16	11.84	0.00	0.00	0.00	0.00
<b>Start of Water Year</b> <i>09-27-2016</i>	36.51	63.49	7.94	0.00	0.00	0.00
<b>One Year Ago</b> <i>08-16-2016</i>	30.61	69.39	26.34	0.00	0.00	0.00

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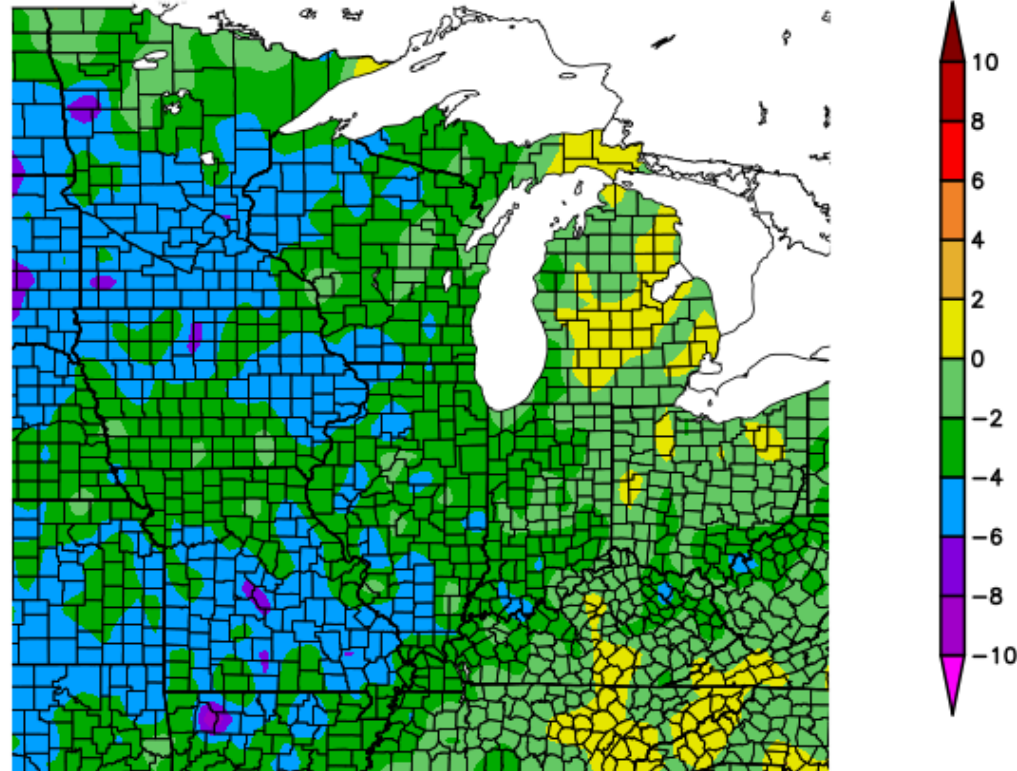
Author:  
Jessica Blunden  
NCEI/NOAA



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

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

Departure from Normal Temperature (F)  
8/10/2017 - 8/16/2017



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

Generated 8/17/2017 at HPRCC using provisional data.

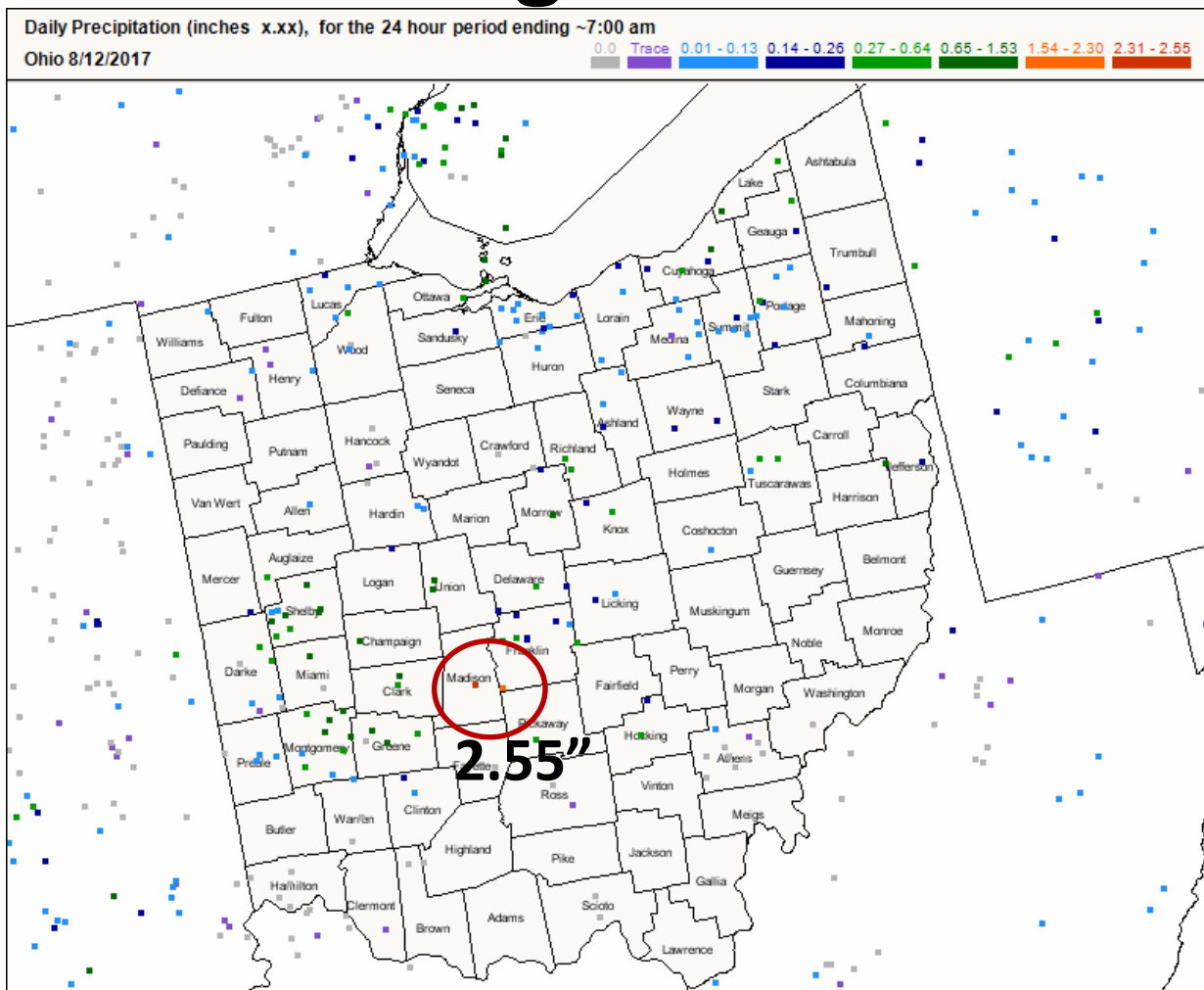
NOAA Regional Climate Centers



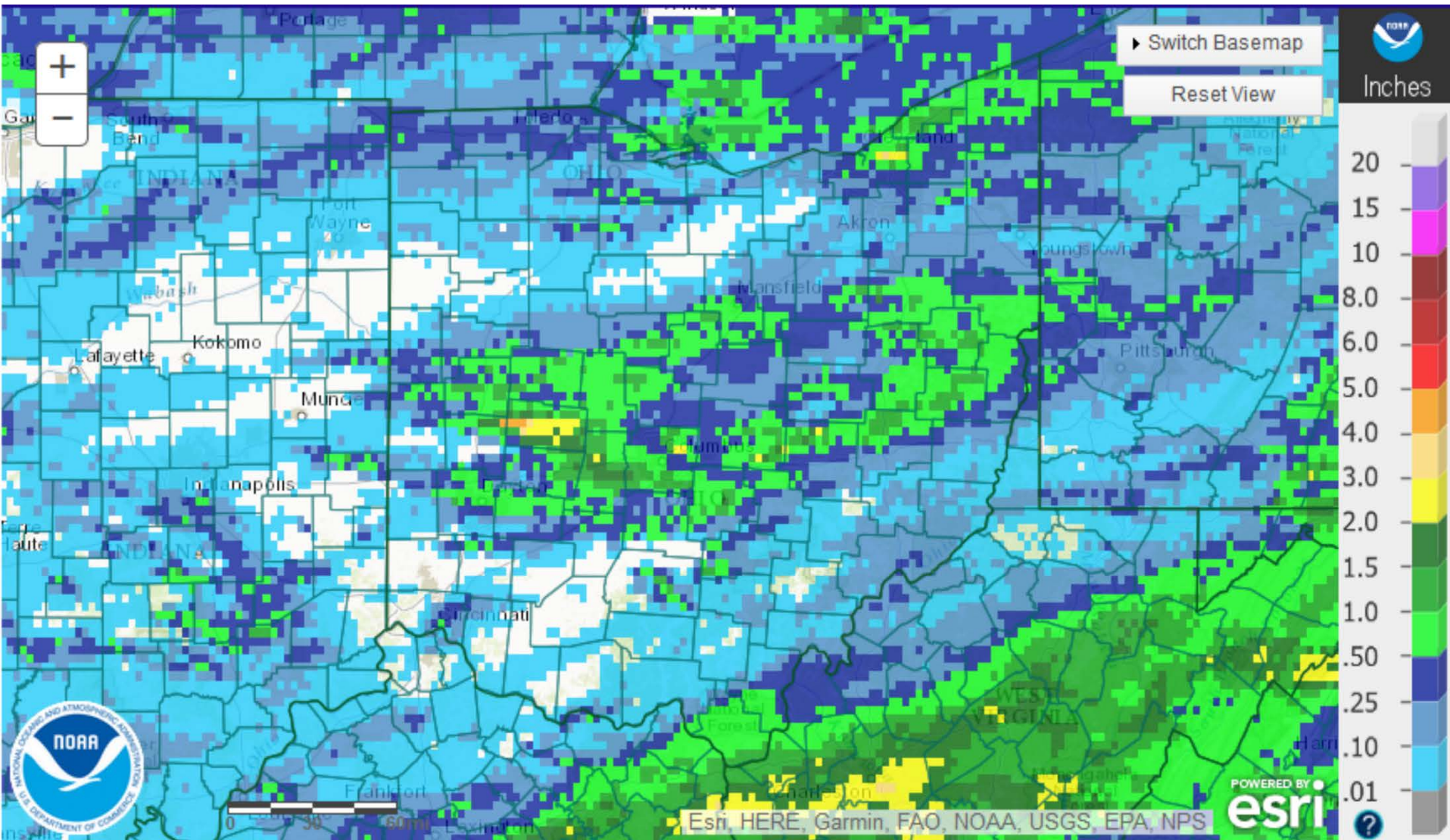
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# CoCoRaHS Observed Precipitation: August 12



# Previous 7-Day Precipitation: Total



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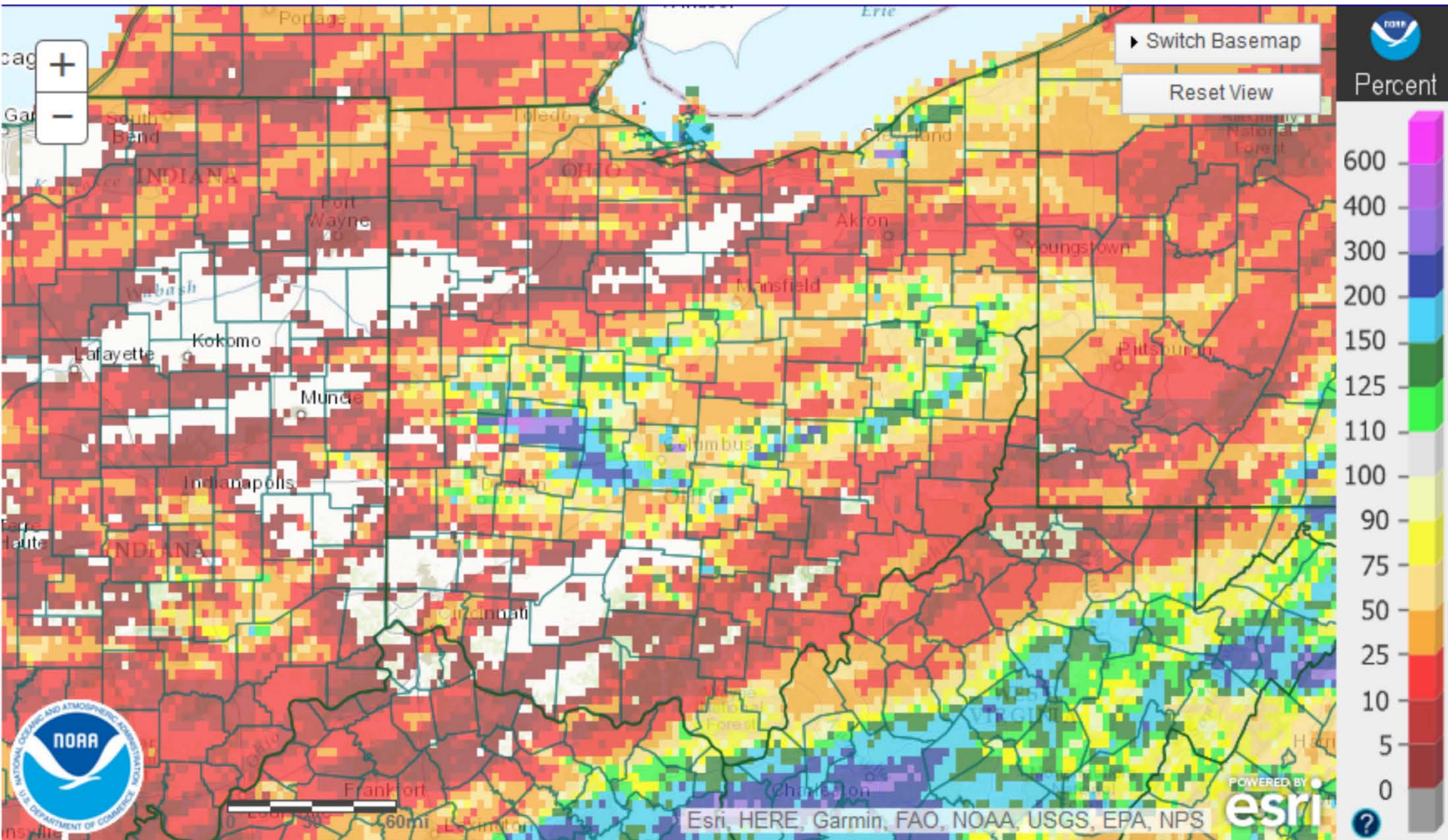
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# Previous 7-Day Precipitation: Percent of Normal

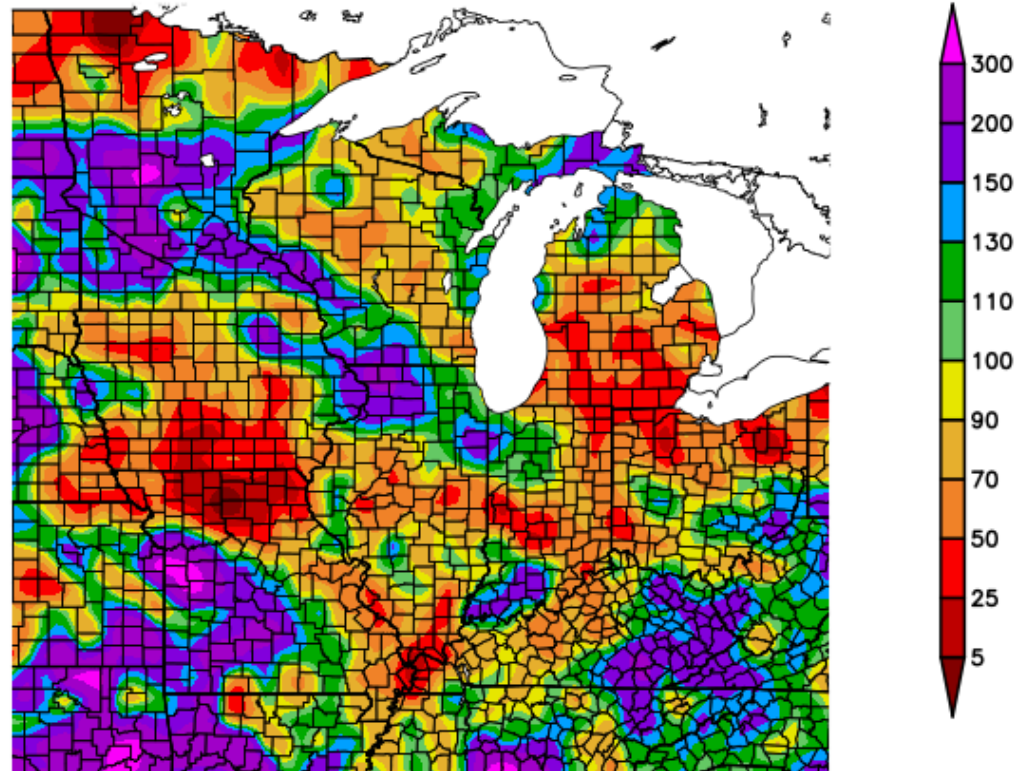


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# Previous 30-Day Precipitation Difference Compared to Average (1981-2010)

Percent of Normal Precipitation (%)  
7/18/2017 - 8/16/2017



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

Generated 8/17/2017 at HPRCC using provisional data.

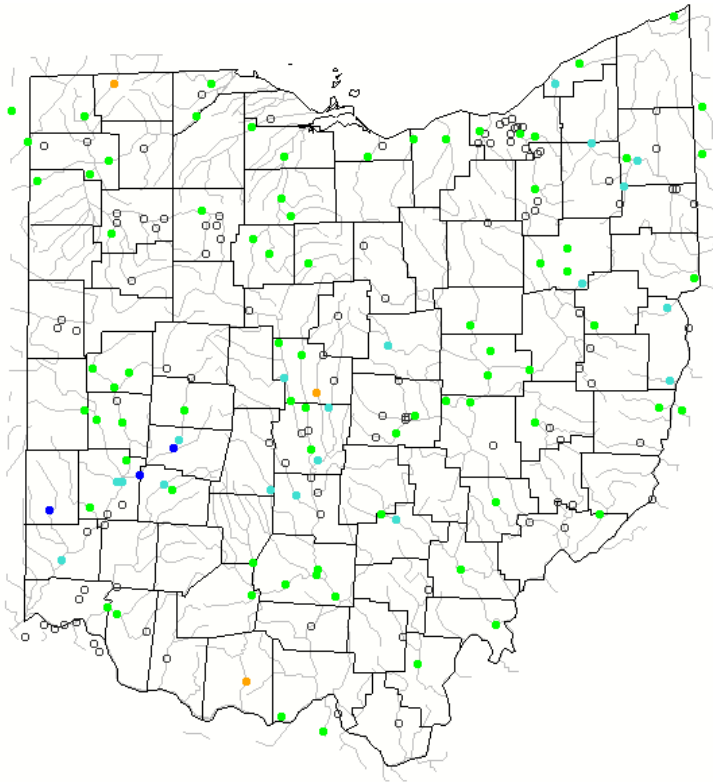
NOAA Regional Climate Centers



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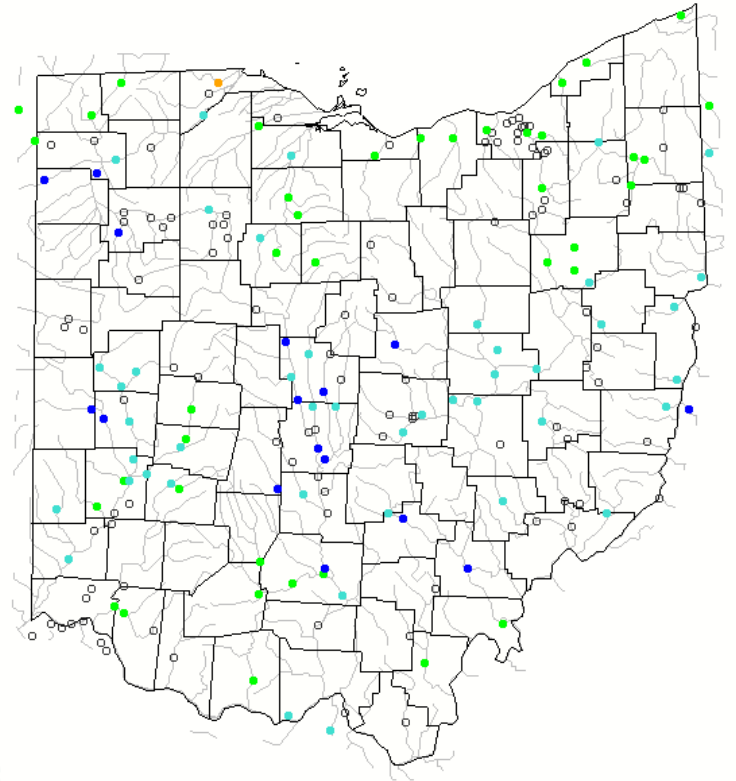
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7-DAY



# USGS Streamflow

28-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



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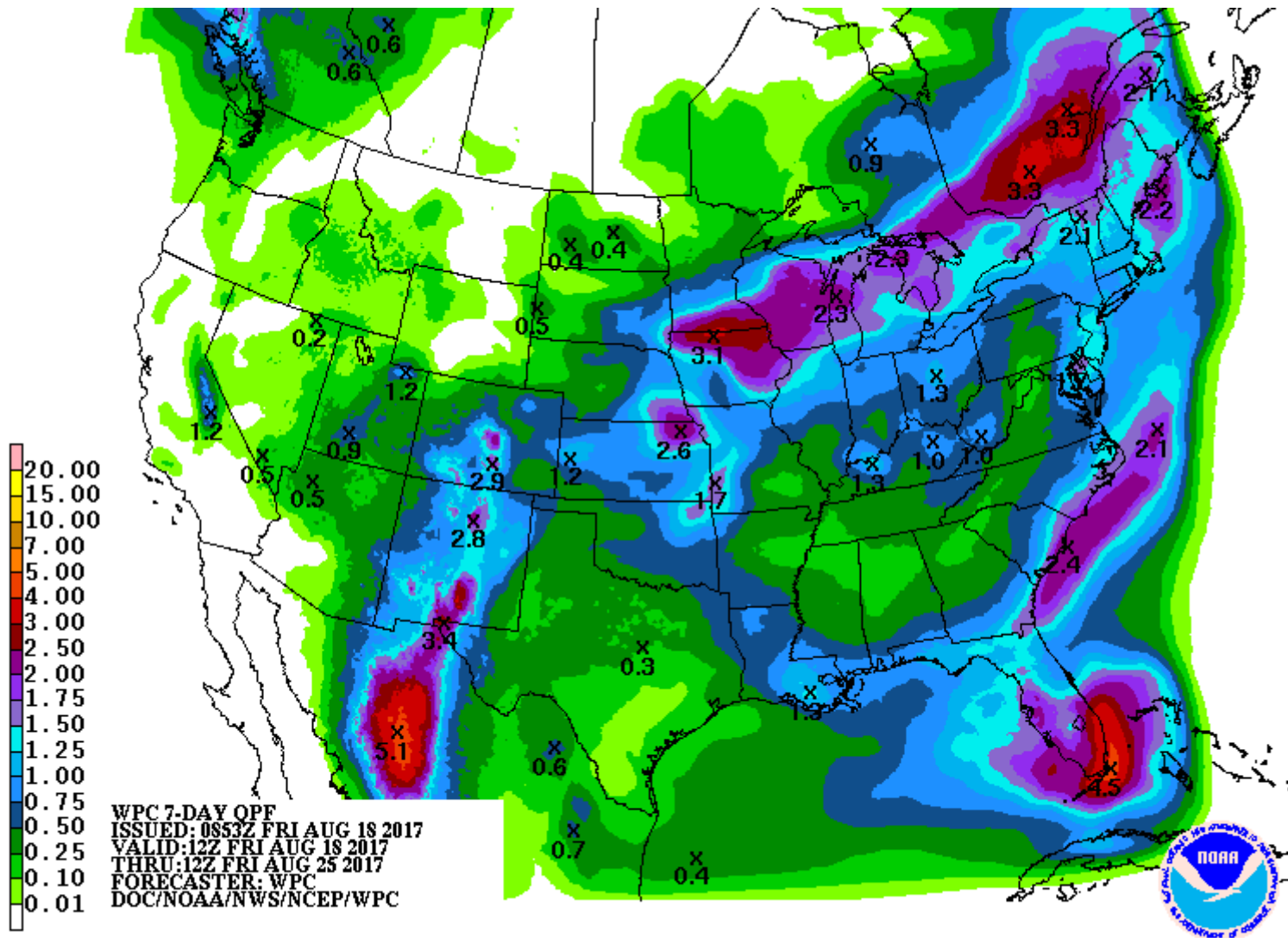
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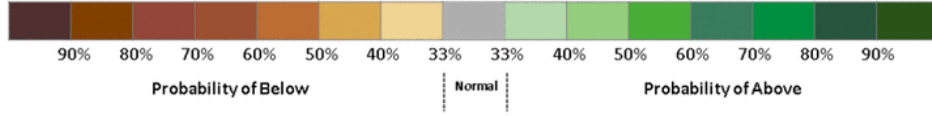
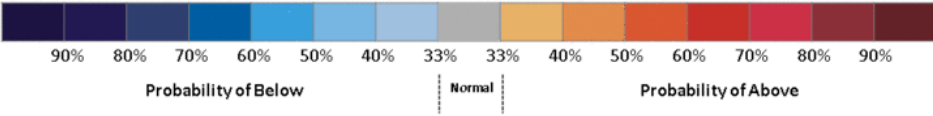
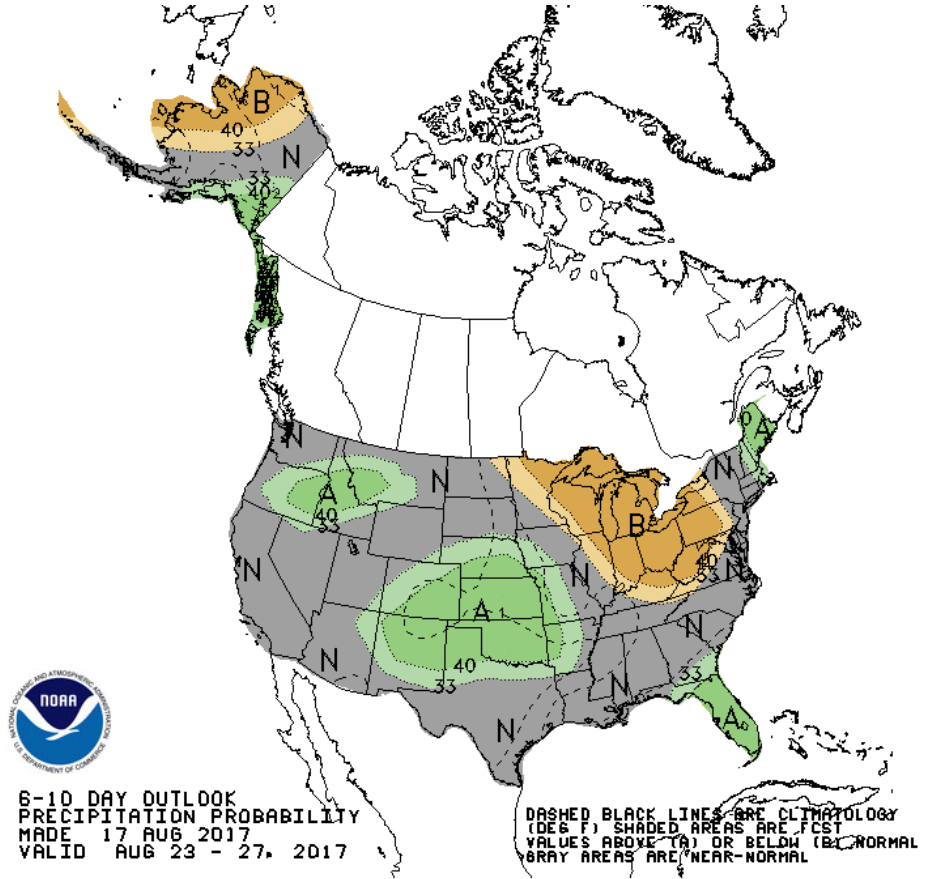
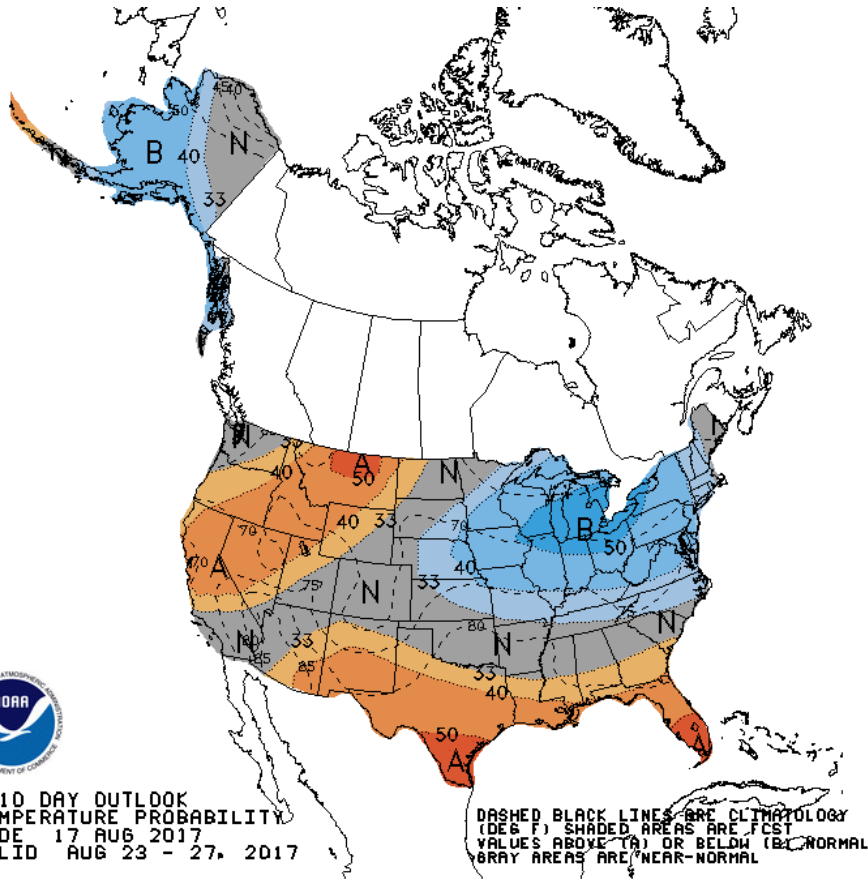
# Weather for the Week Ahead



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# 6-10 Day Outlook



Highs: Low to mid 80s

Lows: Mid 60s

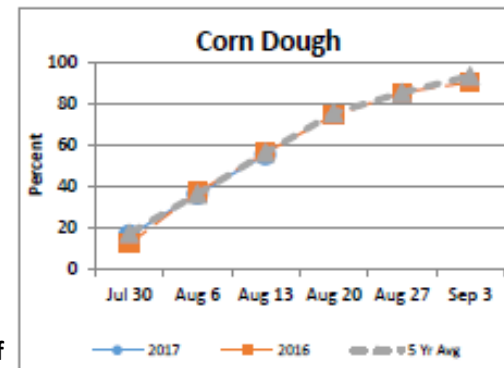
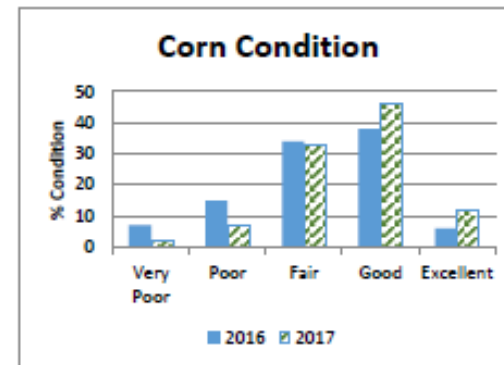
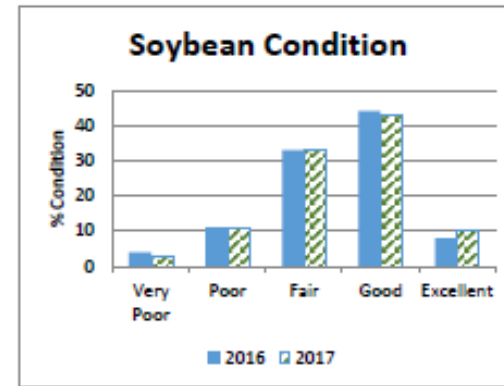


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# Ag Highlights

- 5.9 days suitable for fieldwork
- Dry weather now is a challenge for some crops that have shallow roots due to early season wet weather
- Hay cutting, spreading manure, and spraying activities continued.



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:** Dry conditions in far NW and in NE Ohio

**30-Day and 60-Day:** Drying trends continue; some areas need rainfall

**The week ahead:** Scattered thunderstorms possible this weekend; Temperatures will warm this weekend – cooling off next week



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