Hydrologic and Climate Assessment

July 6, 2017

THE OHIO STATE UNIVERSITY

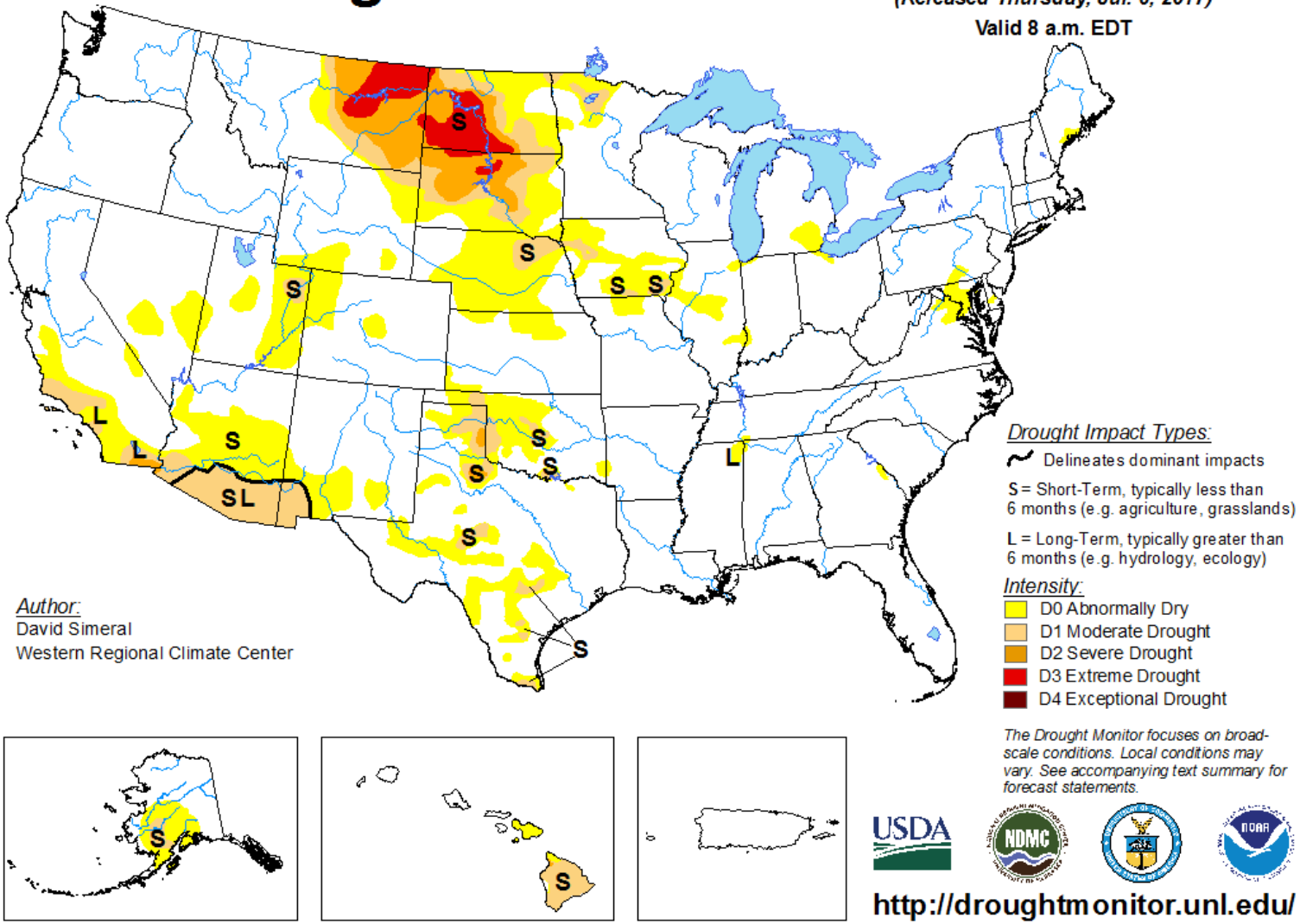
STATE CLIMATE OFFICE OF OHIO (SCOO)
COLLEGE OF FOOD, AGRICULTURAL, AND ENVIRONMENTAL SCIENCES
DEPARTMENT OF EXTENSION
BYRD POLAR & CLIMATE RESEARCH CENTER
DEPARTMENT OF GEOGRAPHY

U.S. Drought Monitor

July 4, 2017

(Released Thursday, Jul. 6, 2017)

Valid 8 a.m. EDT



Author:
David Simeral
Western Regional Climate Center

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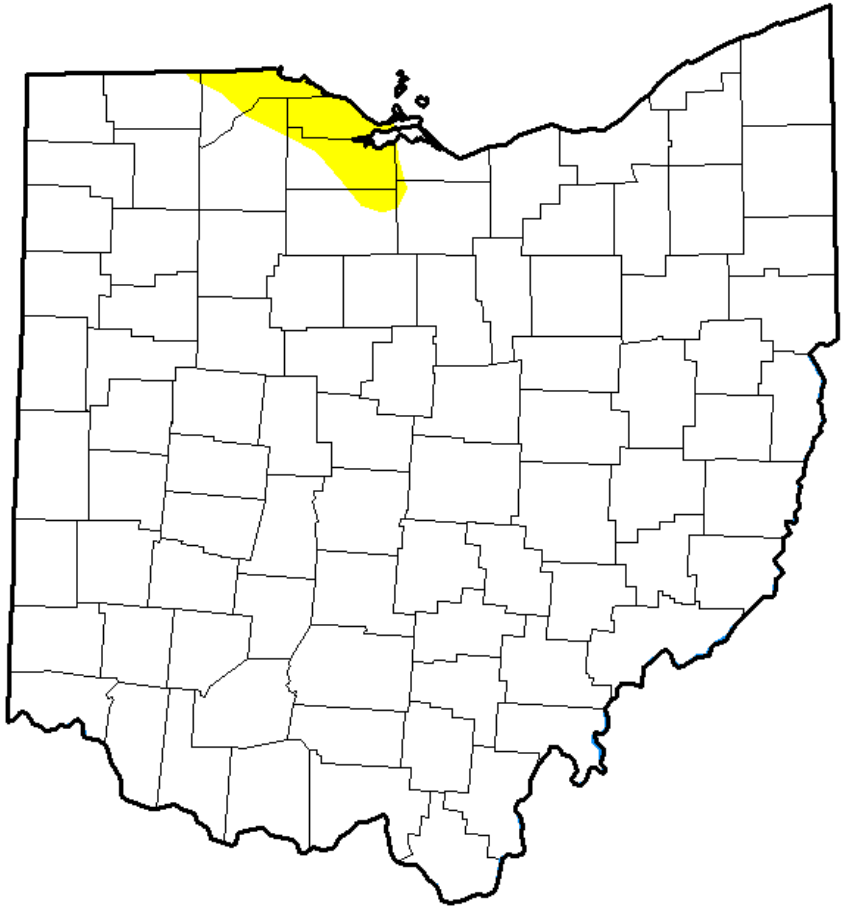
U.S. Drought Monitor

Ohio



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Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	97.78	2.22	0.00	0.00	0.00	0.00
Last Week *06-27-2017*	97.78	2.22	0.00	0.00	0.00	0.00
3 Months Ago *04-04-2017*	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 *09-27-2016*	36.51	63.49	7.94	0.00	0.00	0.00
One Year Ago *07-05-2016*	46.69	53.31	0.25	0.00	0.00	0.00

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.

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http://droughtmonitor.unl.edu/

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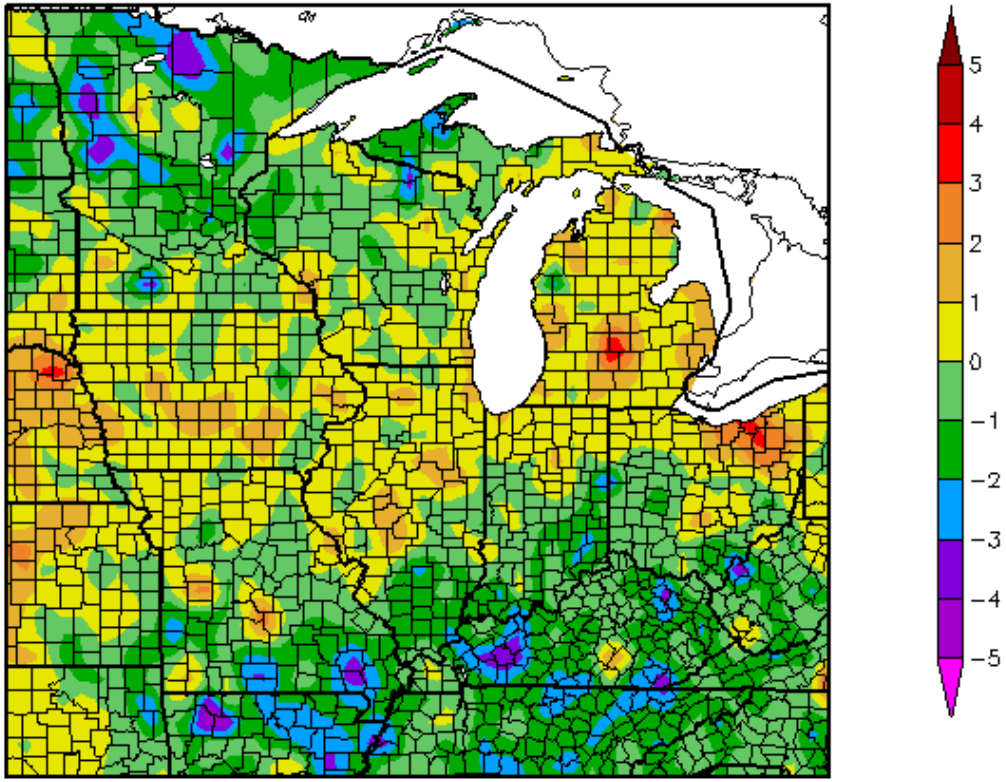
Previous 30-Day Temperature Difference Compared to Average (1981-2010)

Departure from Normal Temperature (F)
6/6/2017 – 7/5/2017



Generated 7/6/2017 at HPRCC using provisional data.

Regional Climate Centers

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

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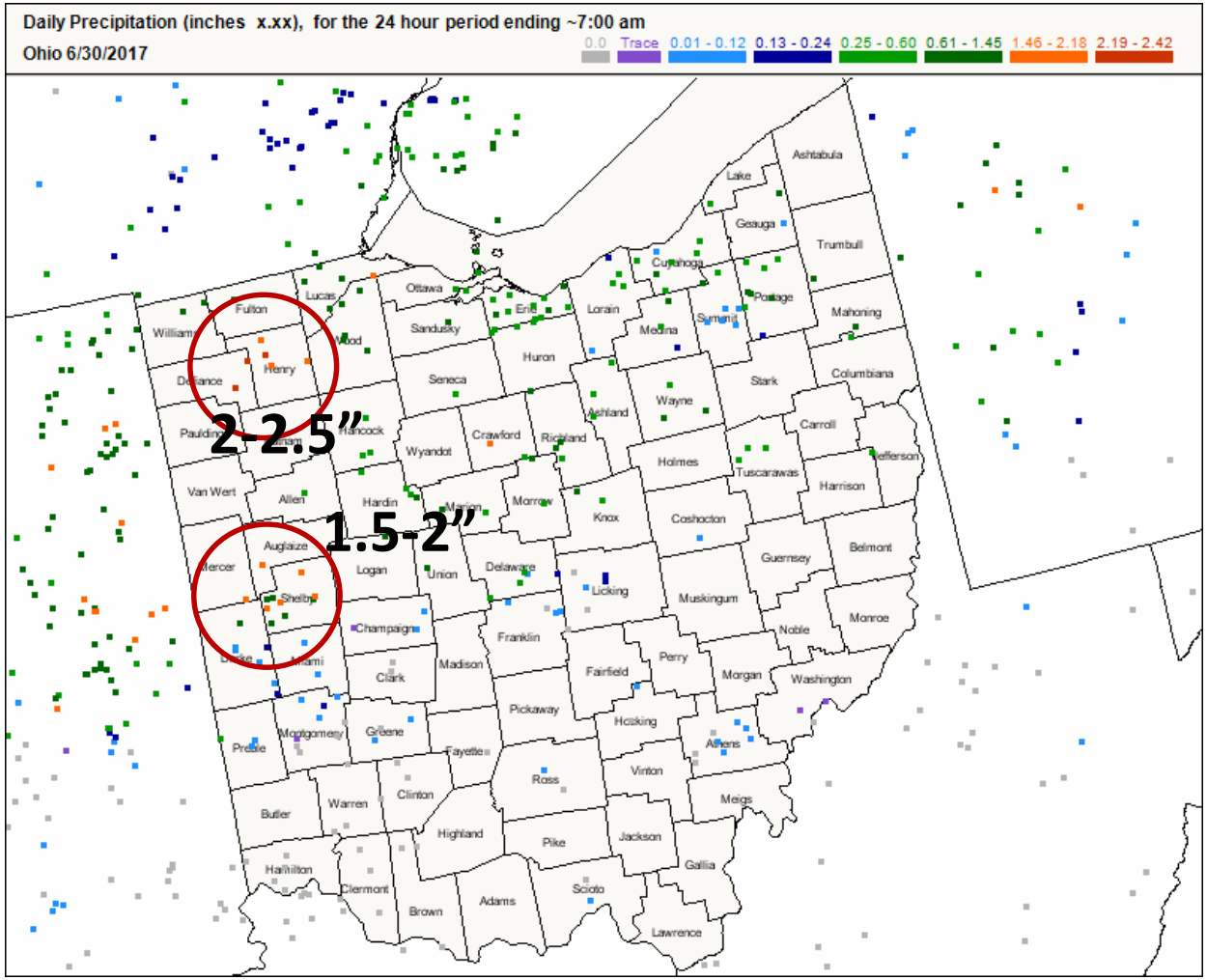
CoCoRaHS Observed Precipitation: June 30



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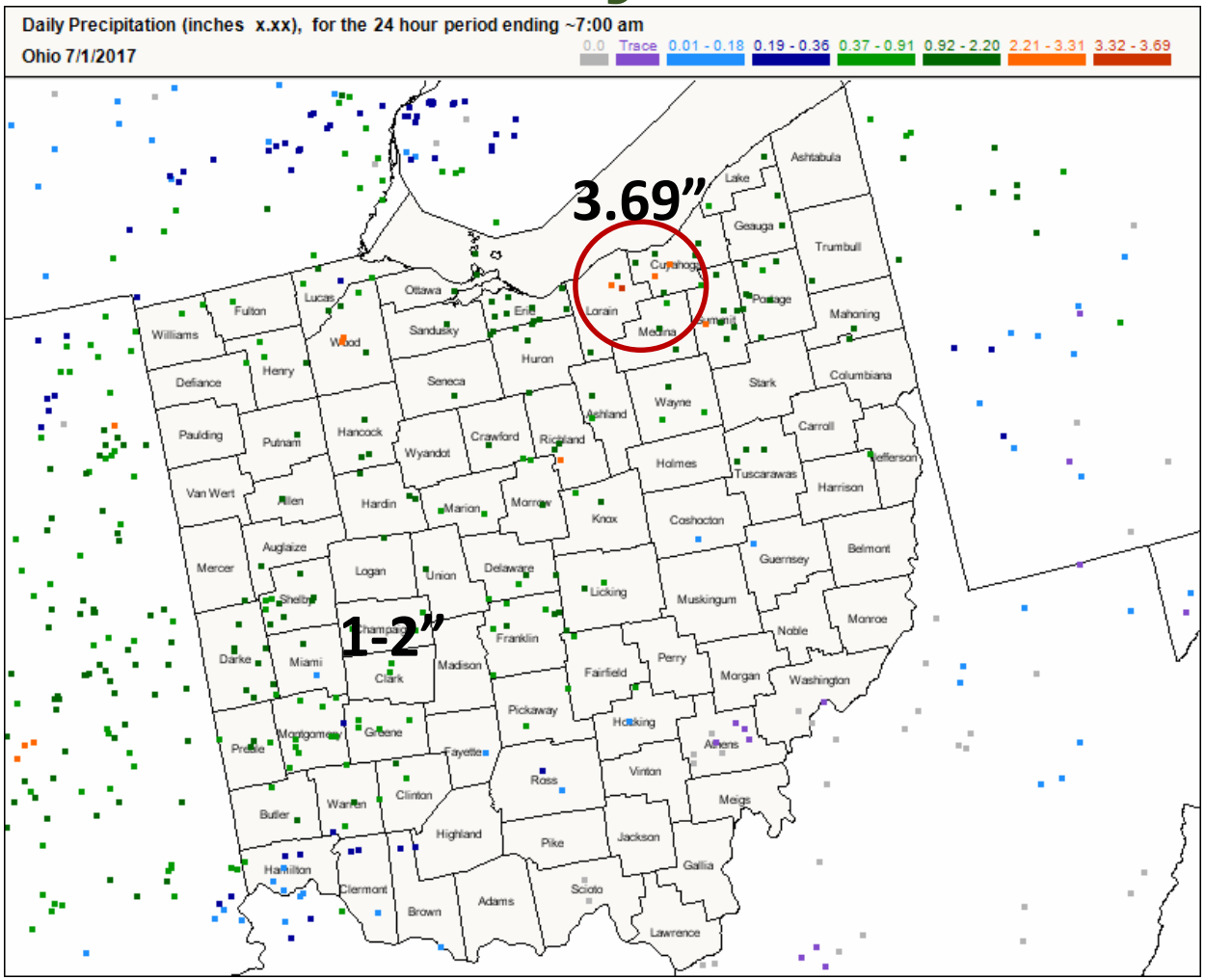
CoCoRaHS Observed Precipitation: July 1



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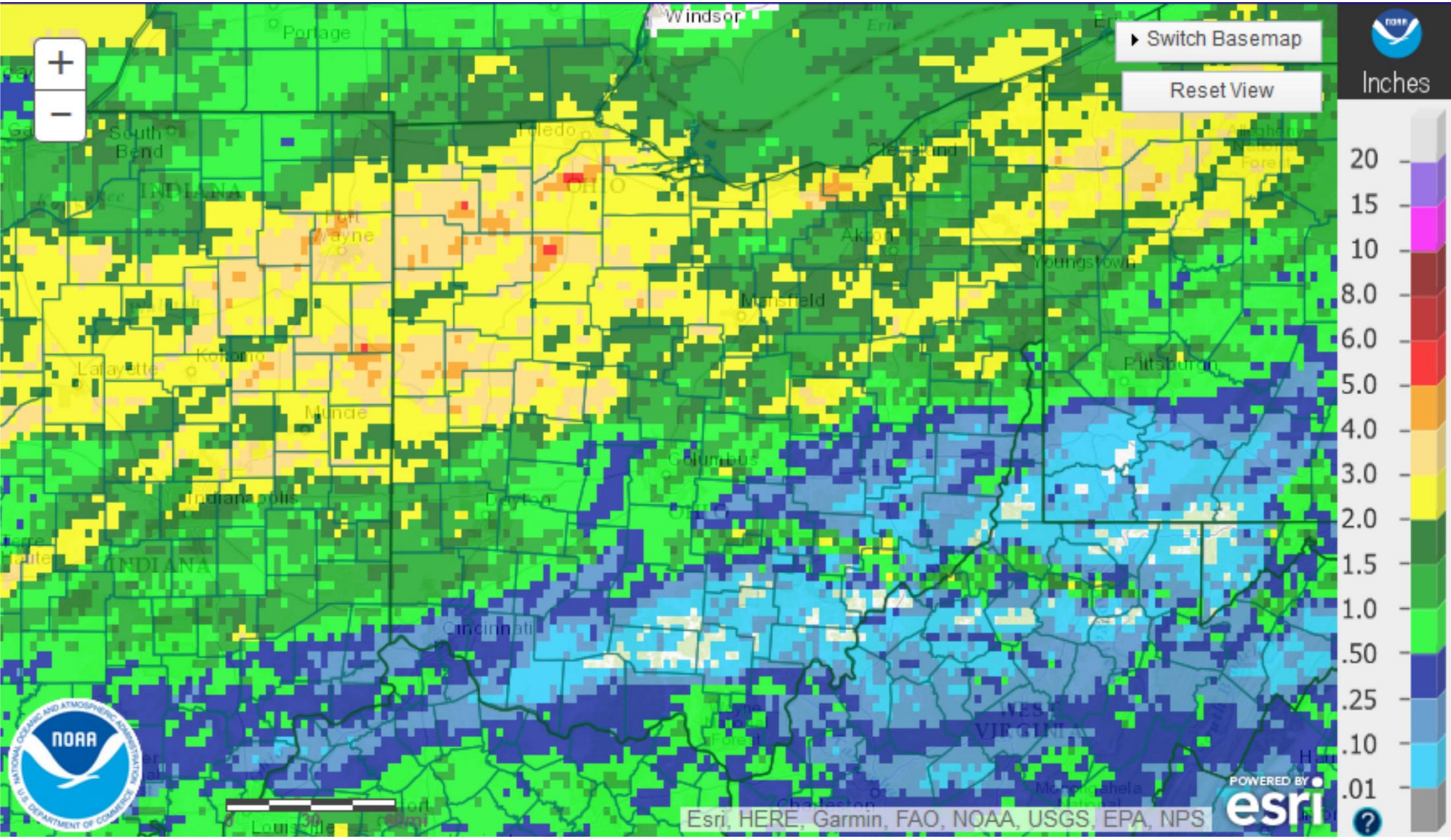
Previous 7-Day Precipitation: Total



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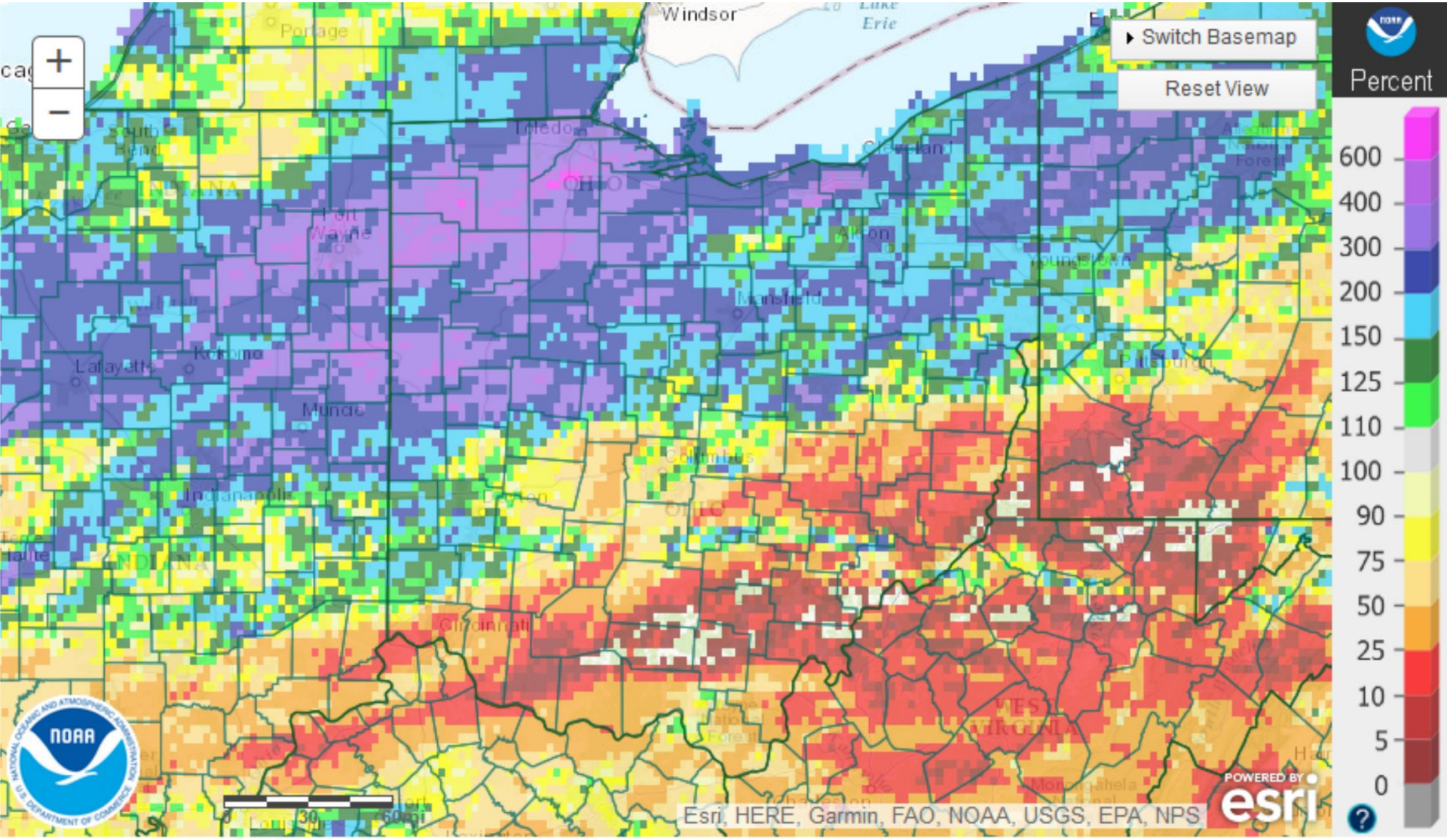
Previous 7-Day Precipitation: Percent of Normal



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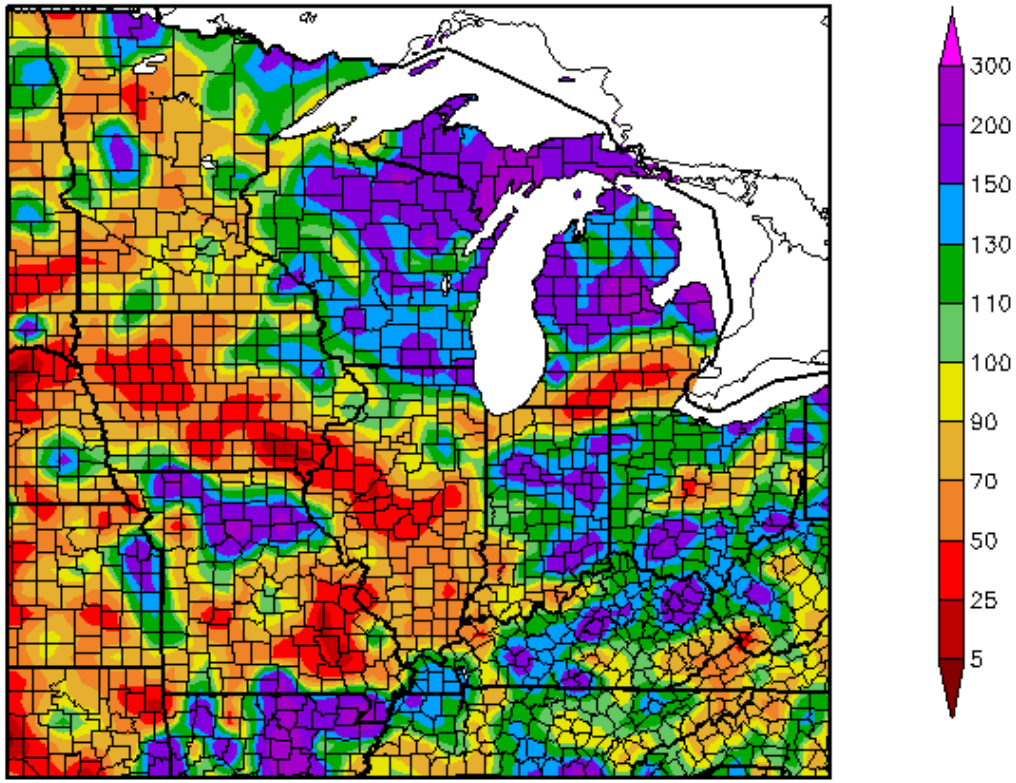
Previous 30-Day Precipitation Difference Compared to Average (1981-2010)

Percent of Normal Precipitation (%)
6/6/2017 – 7/5/2017



NATIONAL INTEGRATED DROUGHT INFORMATION SYSTEM
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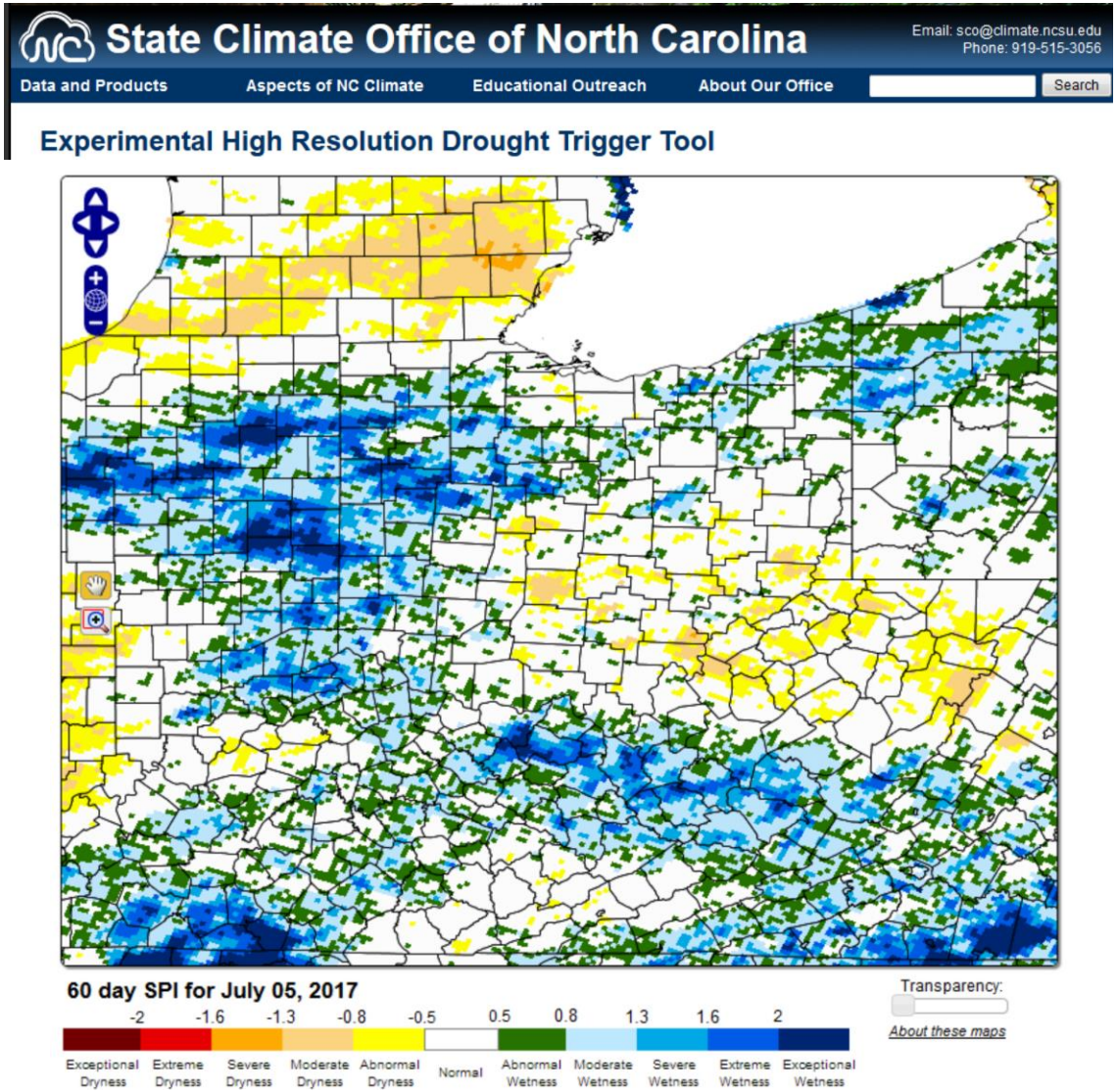
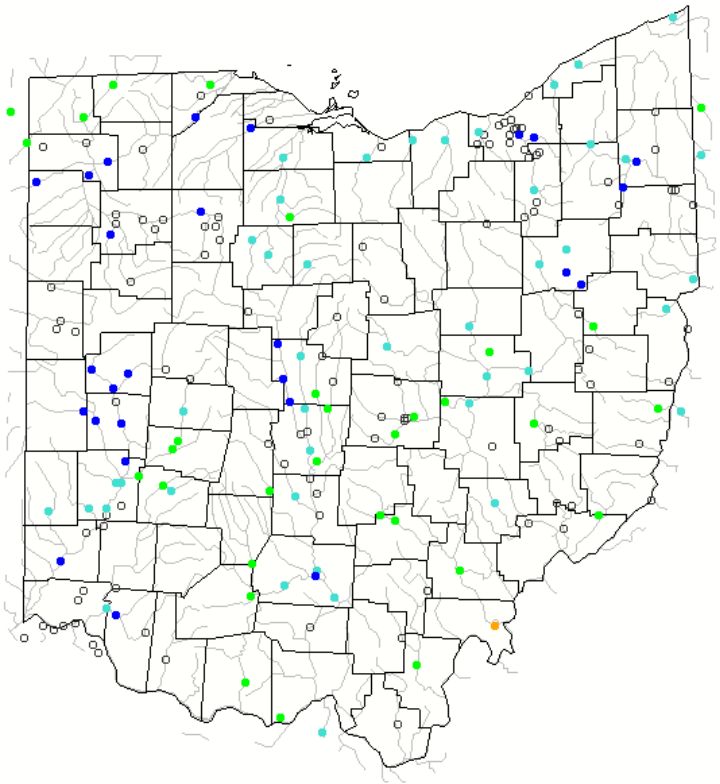
Standard Precipitation Index (SPI)



60-Day

USGS Streamflow

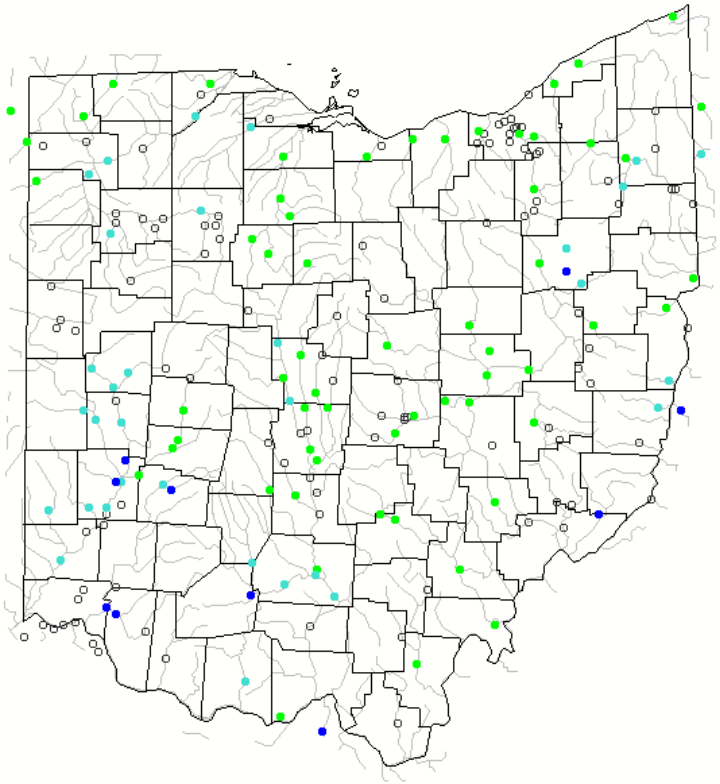
7-DAY



USGS

Explanation - Percentile classes							
Low	<10	10-24	25-75	76-90	>90	High	Not-ranked
	Much below normal	Below normal	Normal	Above normal	Much above normal		

28-DAY



USGS

Average streamflow compared to historical streamflow for the day of the year

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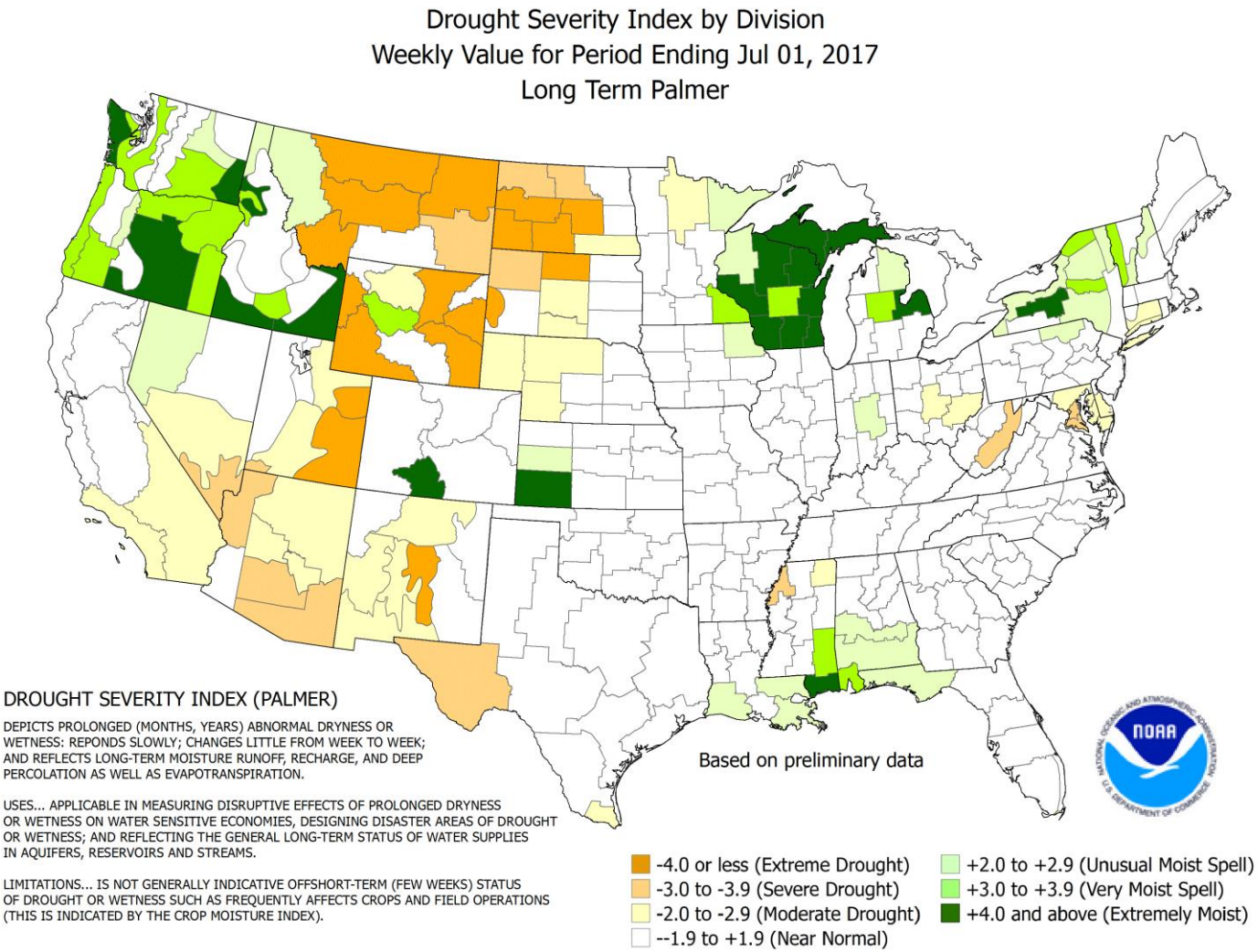
Palmer Drought Severity Index (PDSI)



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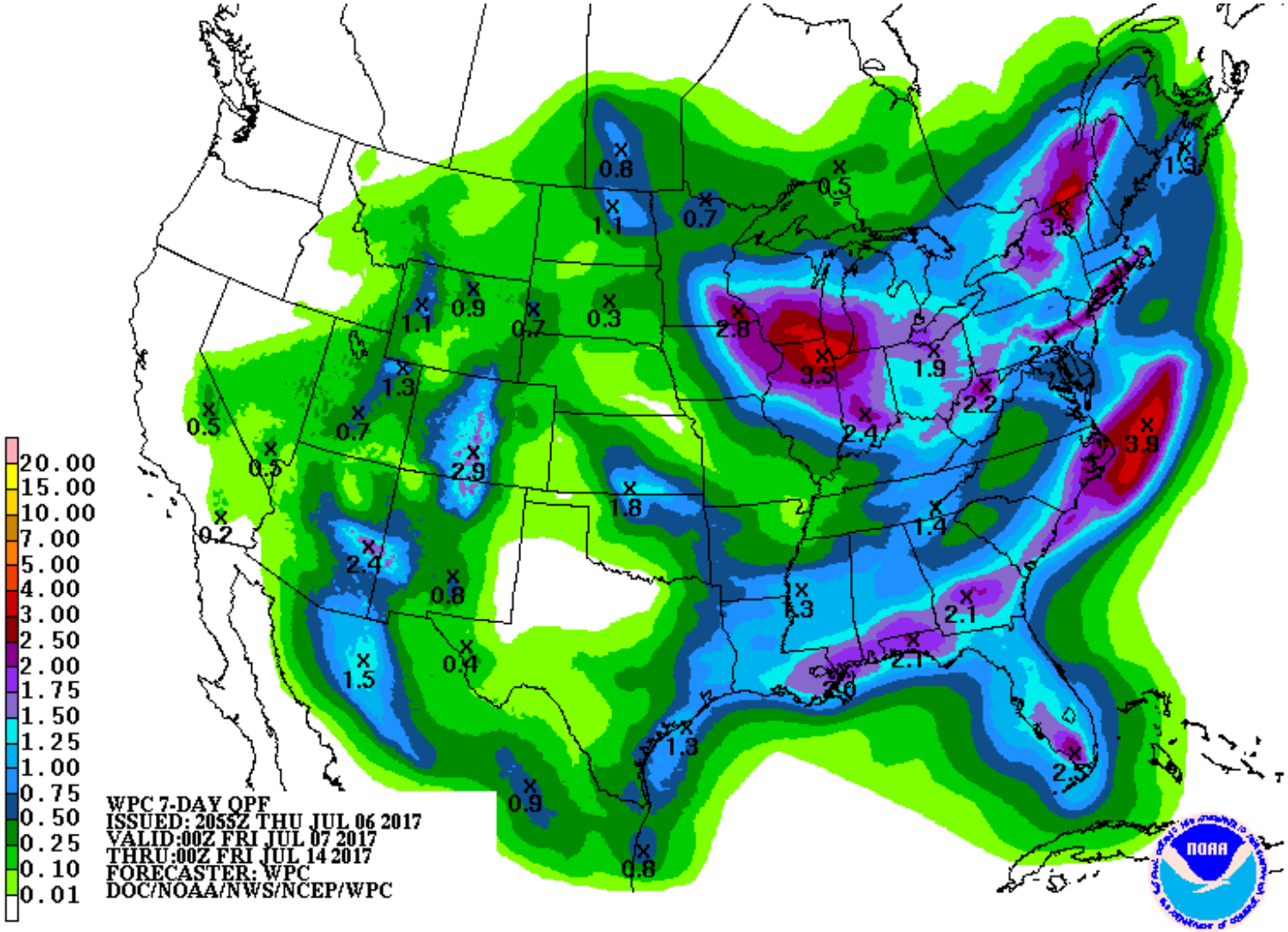
Weather for the Week Ahead



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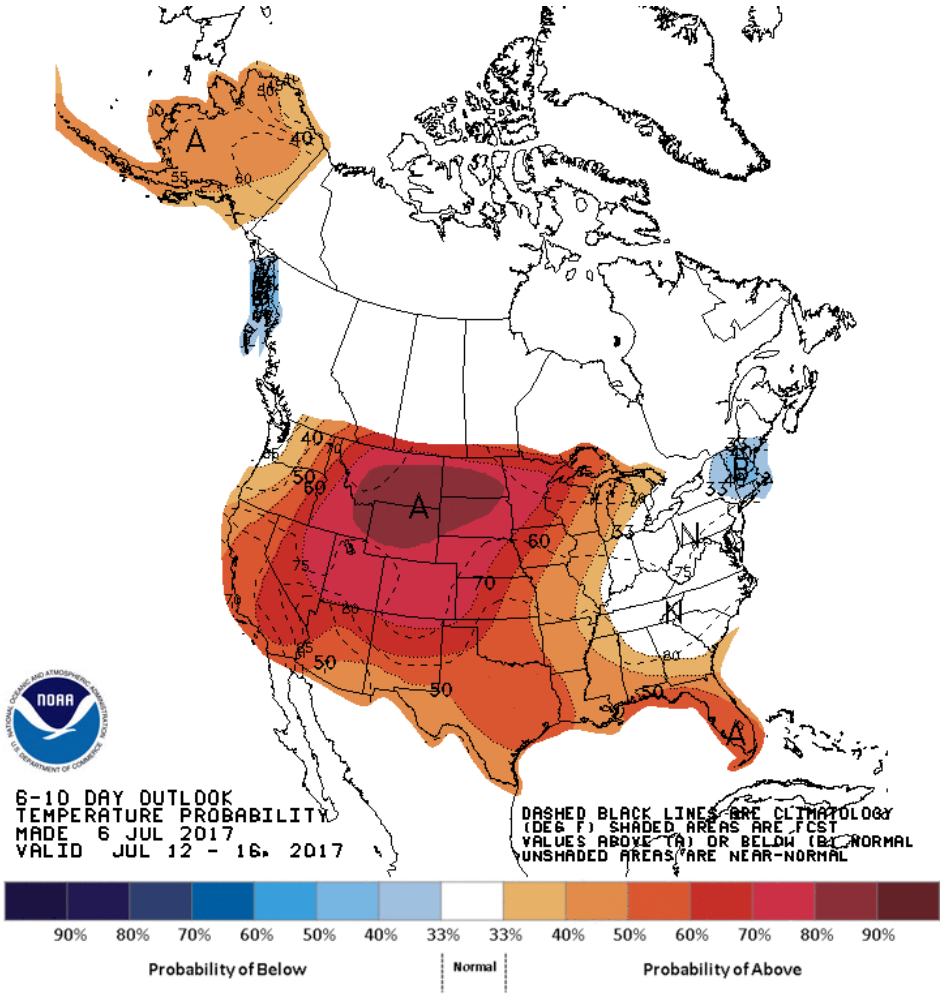
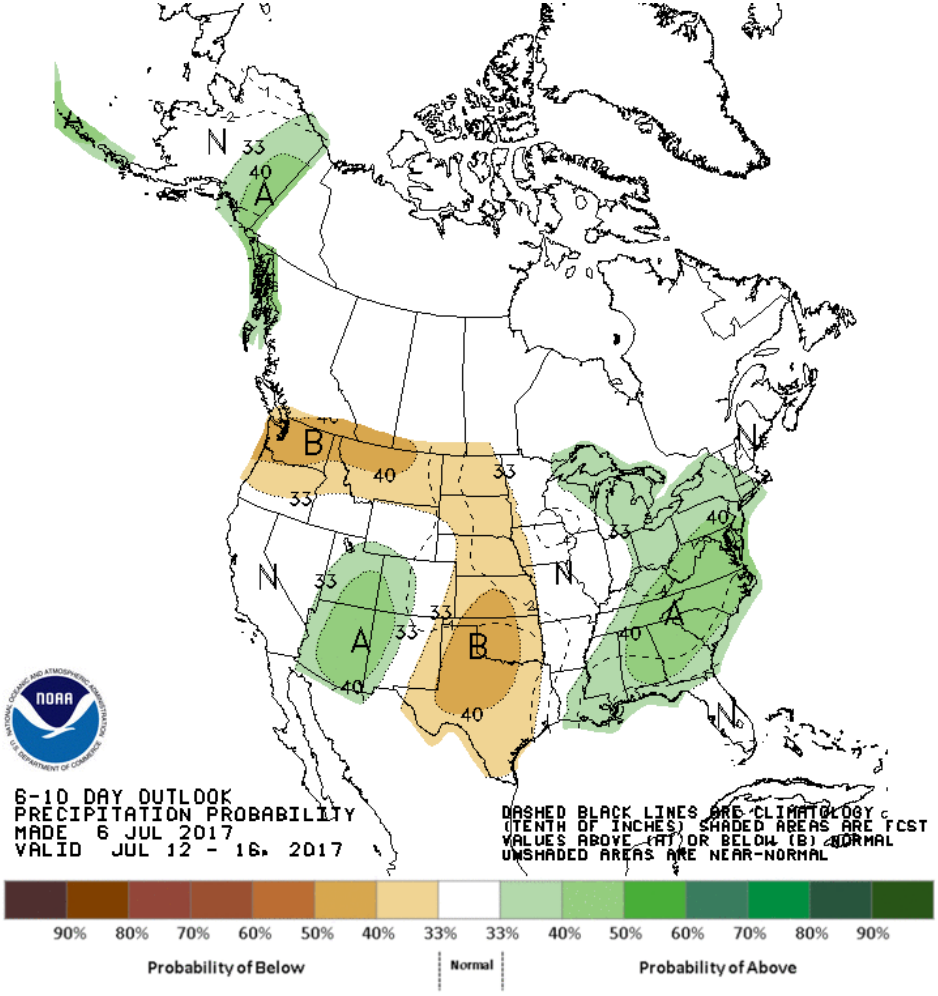
6-10 Day Outlook





Highs: Mid 80s

Lows: Mid 60s

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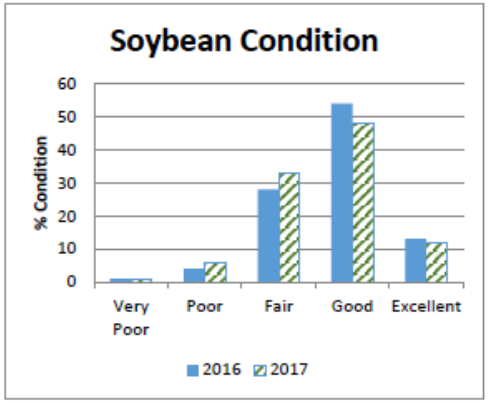
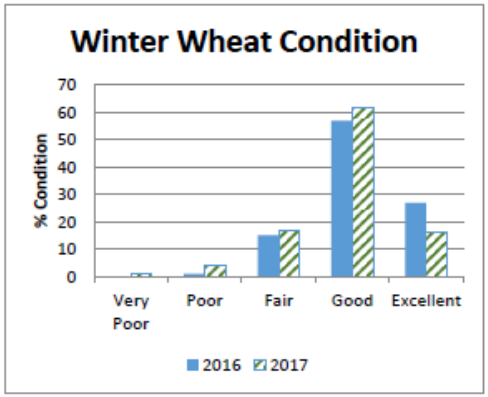
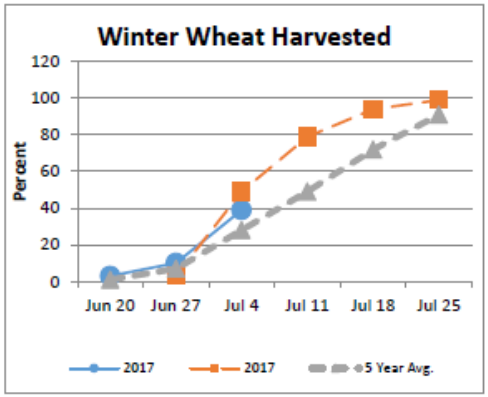
Ag Highlights

- **4.6 suitable days of field work**
- **Dry, cool weather early allowed for wheat harvest**
- **Wet once again in the west and north with ponding and some yellowing of plants.**

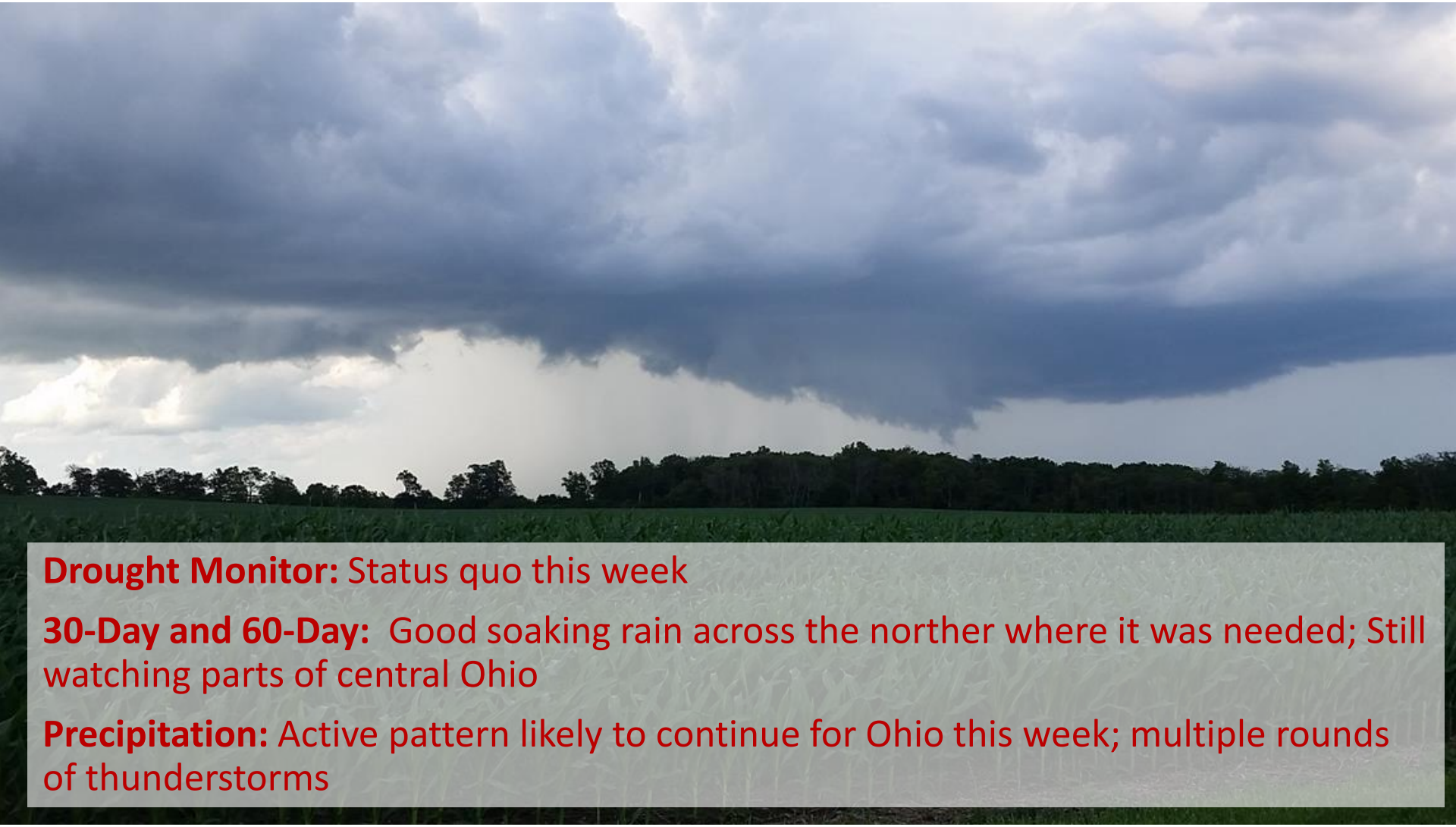






NASS: Cheryl Turner –
https://www.nass.usda.gov/Statistics_by_State/Ohio/Publications/Crop_Progress_&_Condition/2017/cw2717oh.pdf

Summary of Conditions



Drought Monitor: Status quo this week

30-Day and 60-Day: Good soaking rain across the norther where it was needed; Still watching parts of central Ohio

Precipitation: Active pattern likely to continue for Ohio this week; multiple rounds of thunderstorms