Hydrologic and Climate Assessment

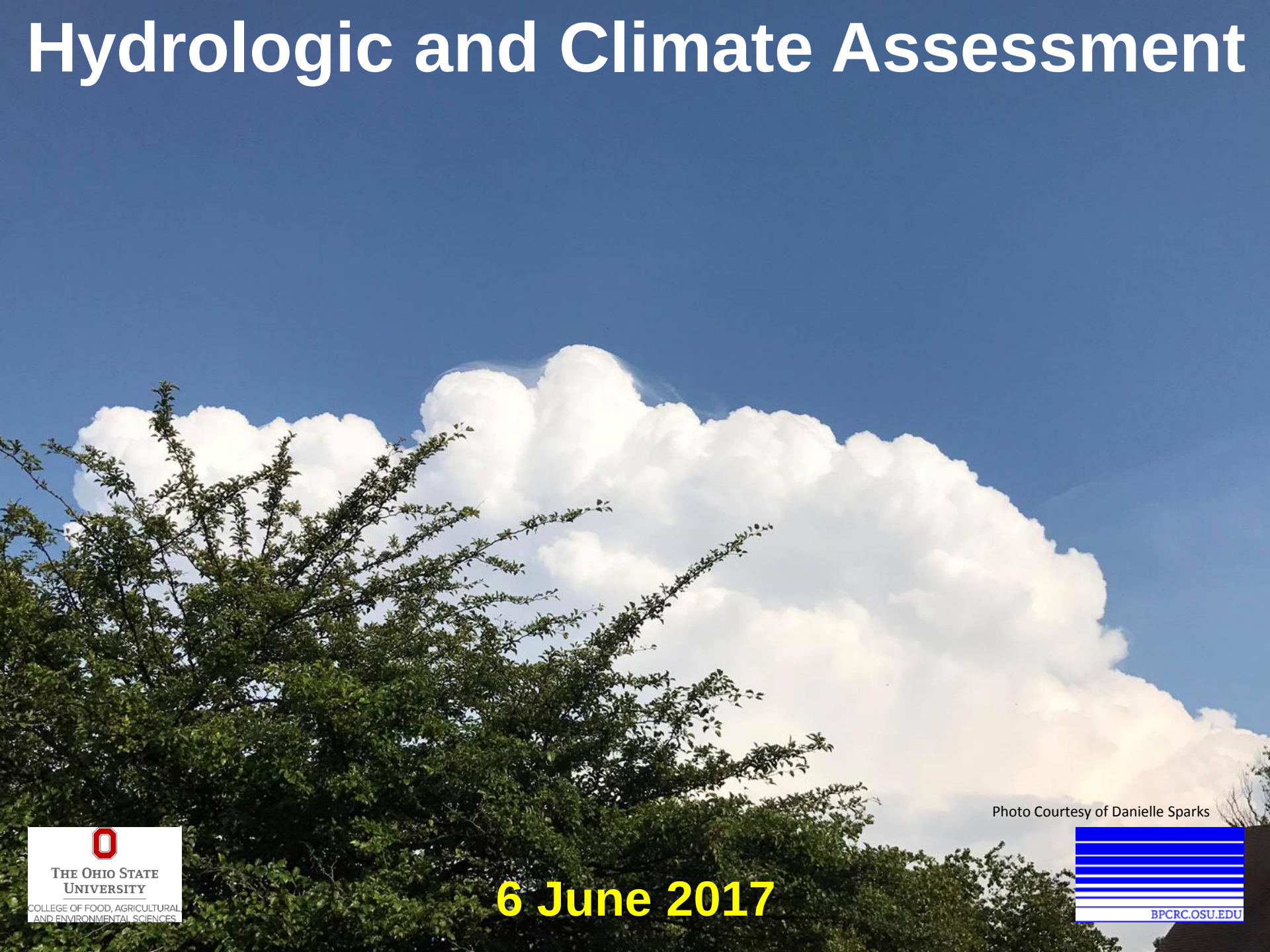


Photo Courtesy of Danielle Sparks

THE OHIO STATE UNIVERSITY
COLLEGE OF FOOD, AGRICULTURAL, AND ENVIRONMENTAL SCIENCES

6 June 2017

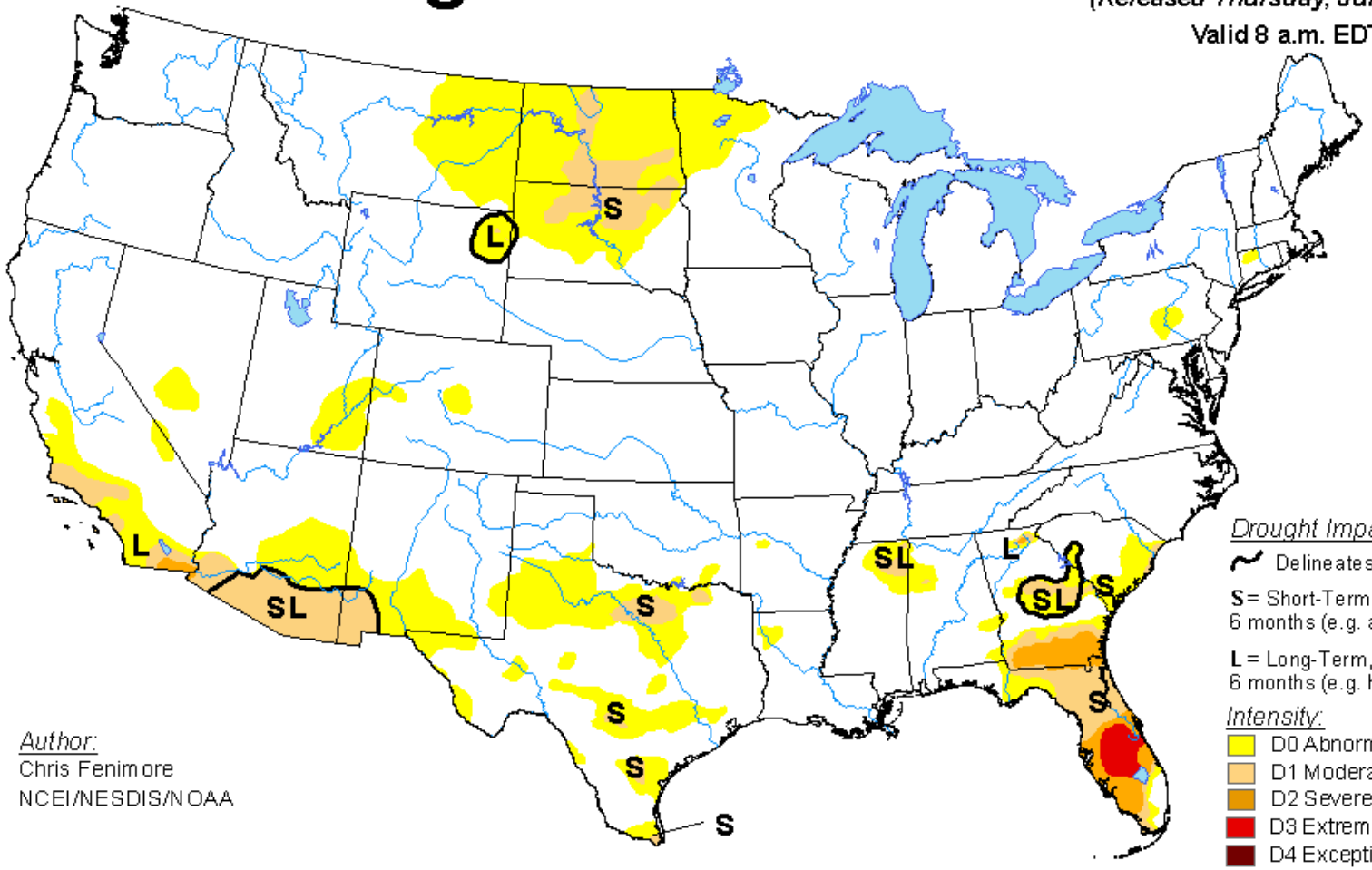
BPCRC.OSU.EDU

U.S. Drought Monitor

May 30, 2017

(Released Thursday, Jun. 1, 2017)

Valid 8 a.m. EDT



Drought Impact Types:

Delineates dominant impacts

S = Short-Term, typically less than 6 months (e.g. agriculture, grasslands)

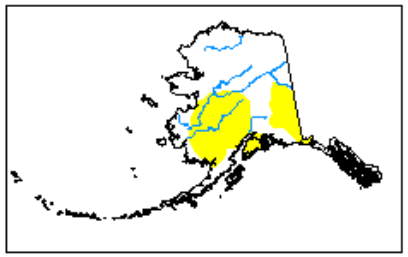
L = Long-Term, typically greater than 6 months (e.g. hydrology, ecology)

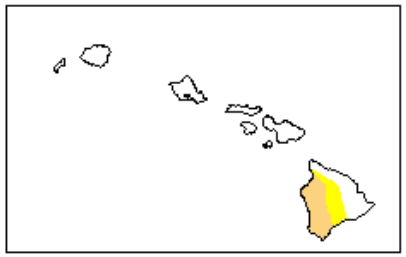
Intensity:

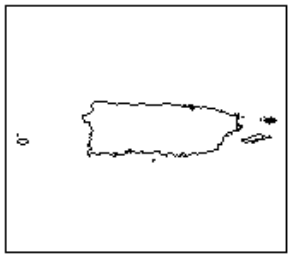
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

Author:
Chris Fenimore
NCEI/NESDIS/NOAA



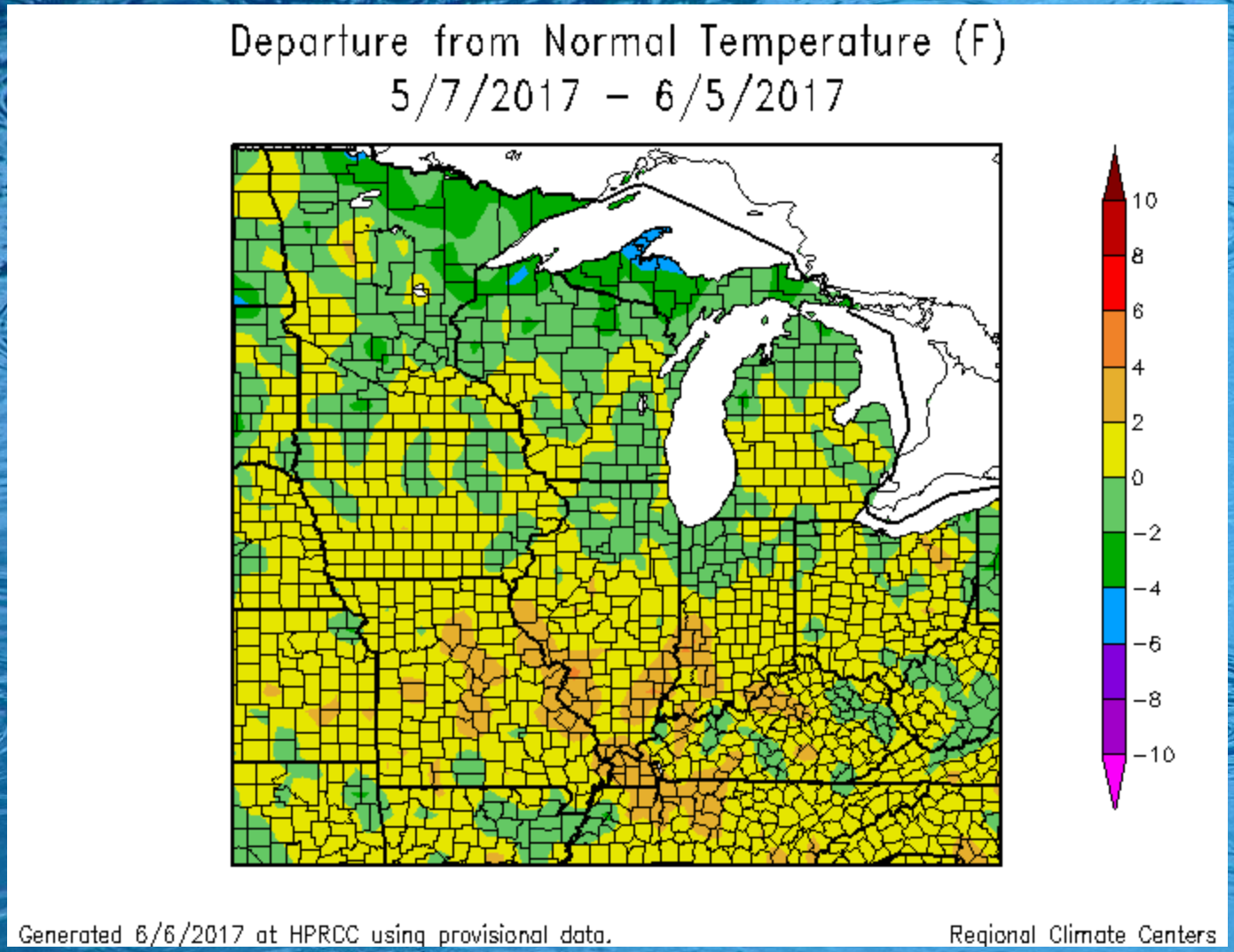




USDA NDMC NOAA

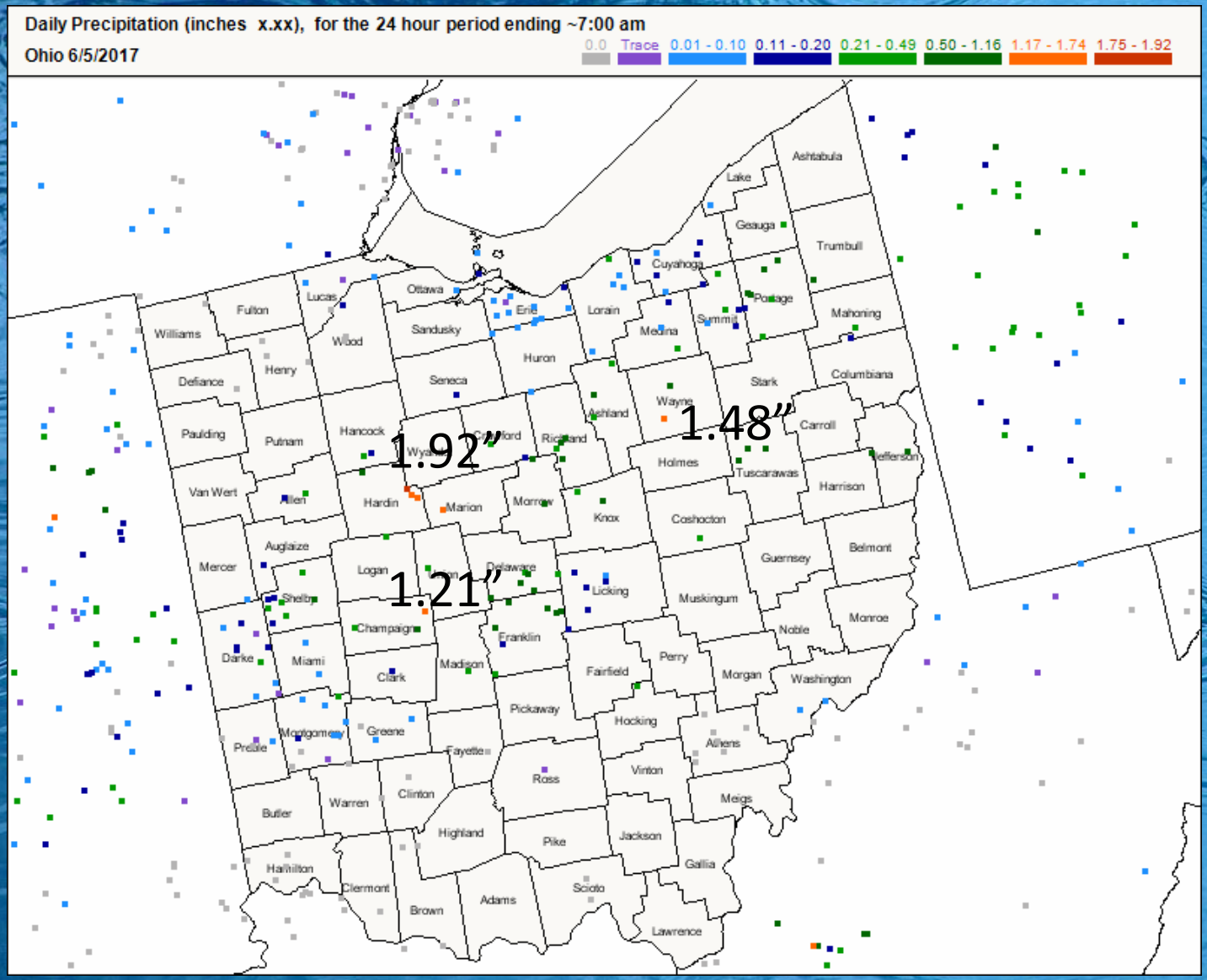
http://droughtmonitor.unl.edu/

Previous 30-Day Temperature Departure

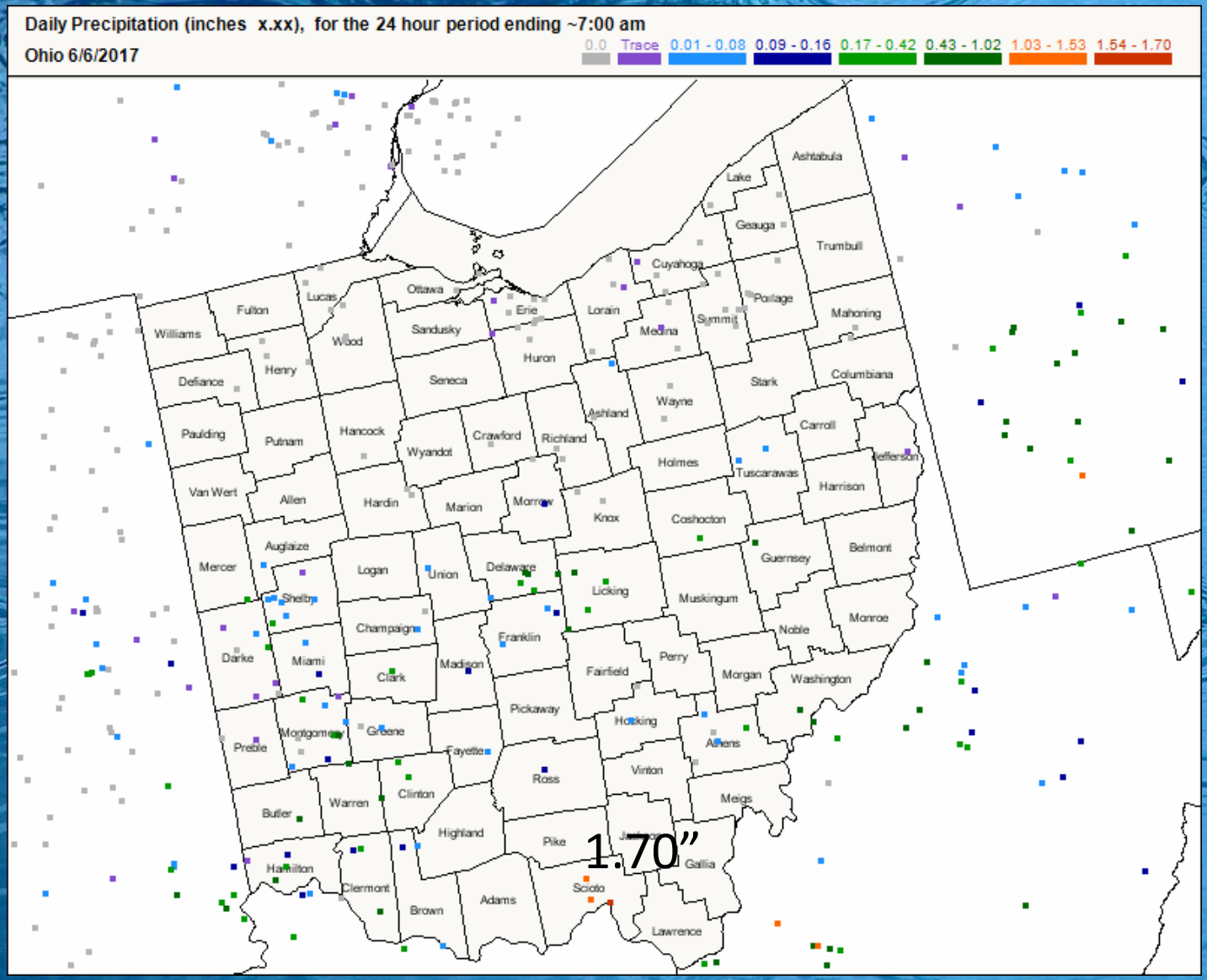


NATIONAL INTEGRATED DROUGHT INFORMATION SYSTEM
NIDIS Drought.gov
U.S. Drought Portal

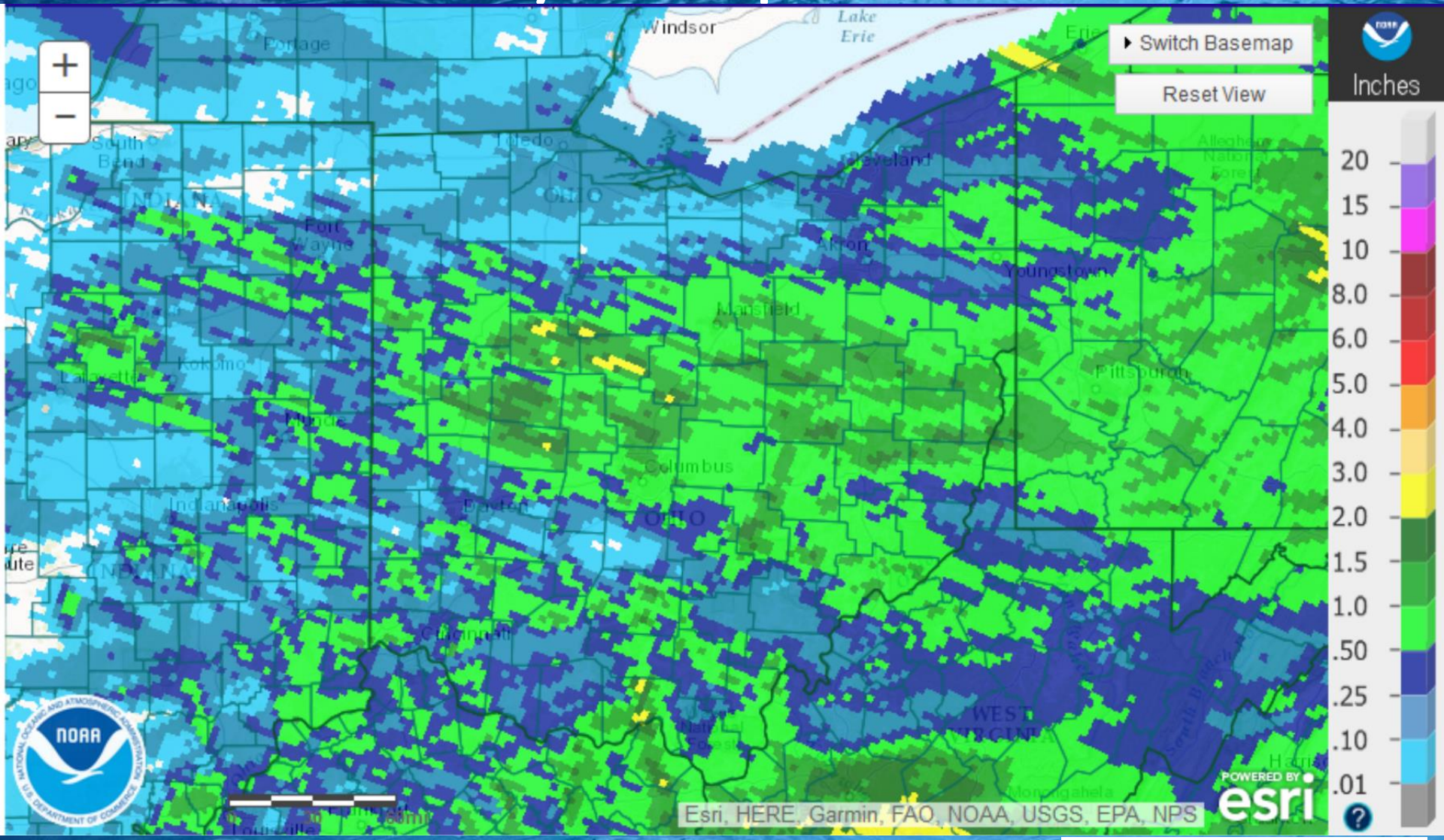
CoCoRaHS: 5 June



CoCoRaHS: 6 June

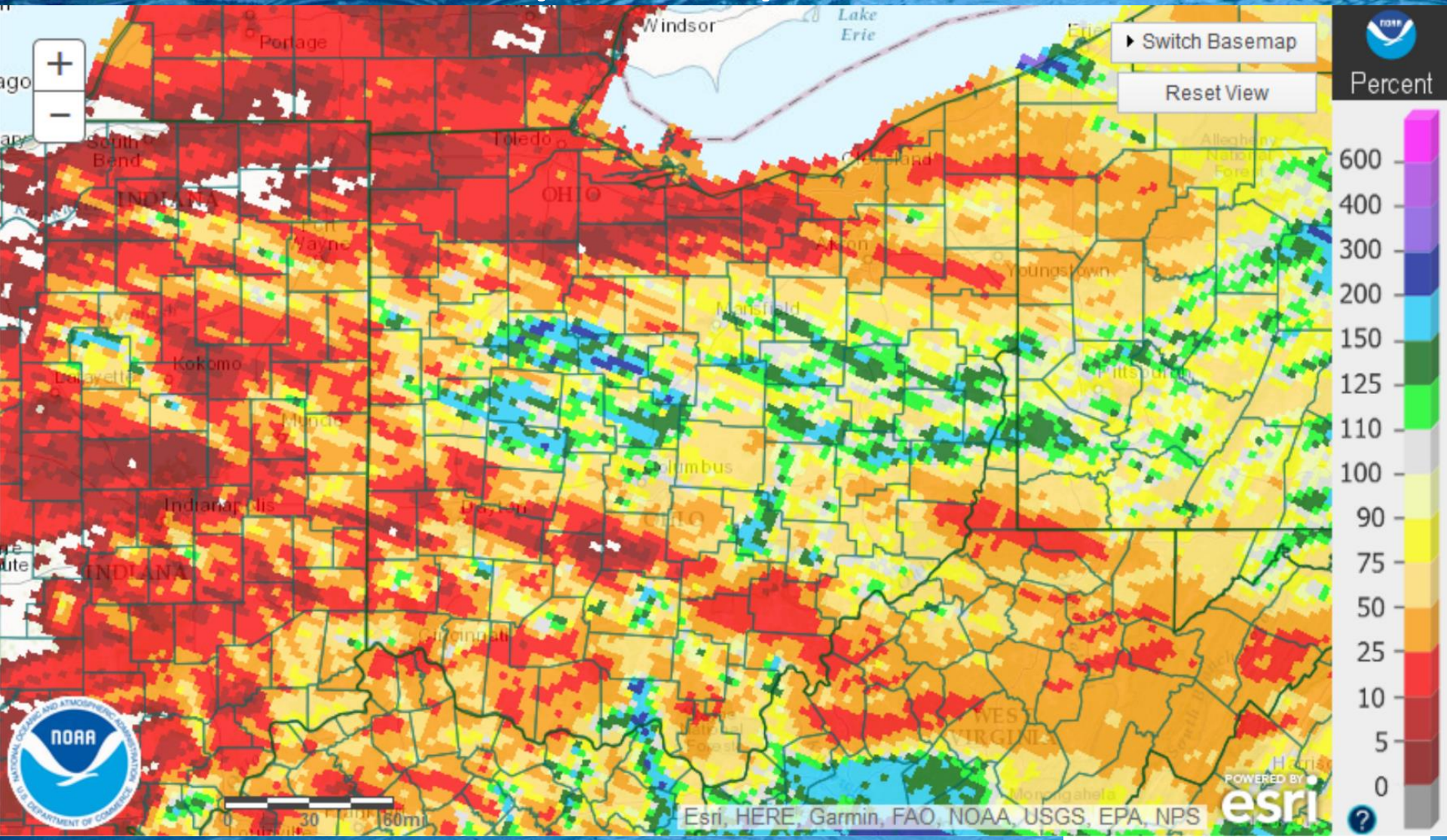


Previous 7-Day Precipitation Estimates



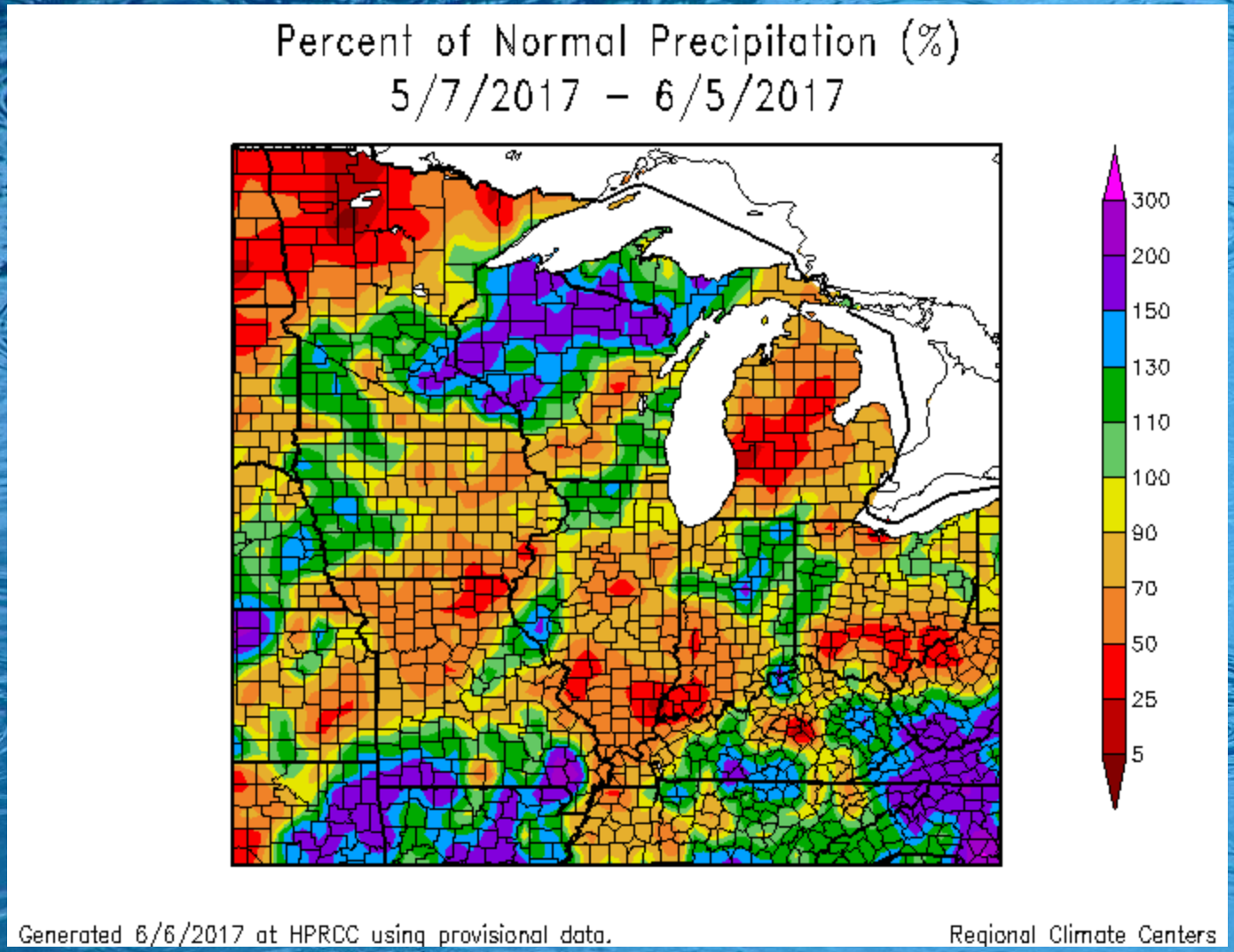
Total Observed

Previous 7-Day Precipitation Estimates



Percent of Normal

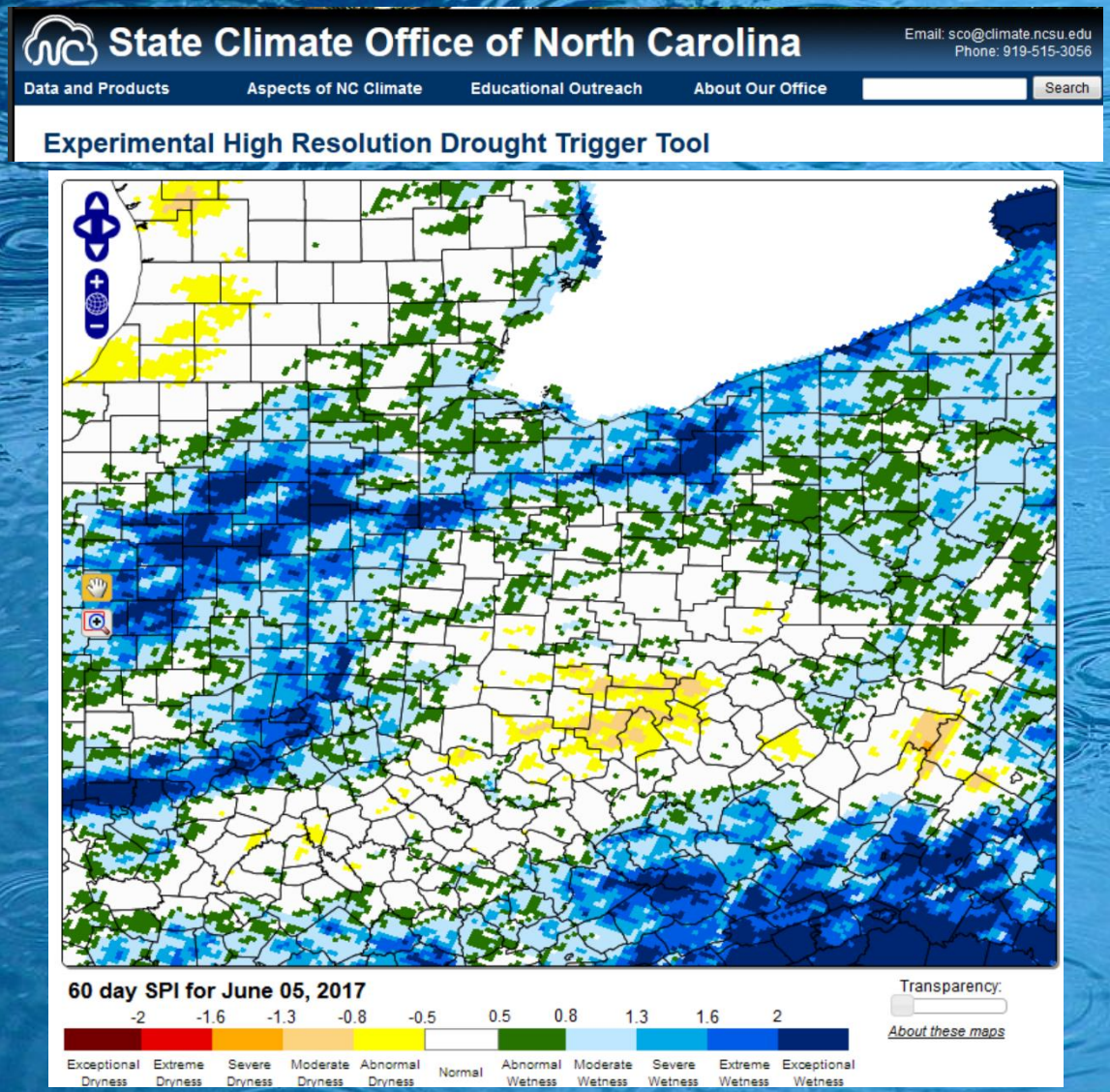
Previous 30-Day Precipitation Departure



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

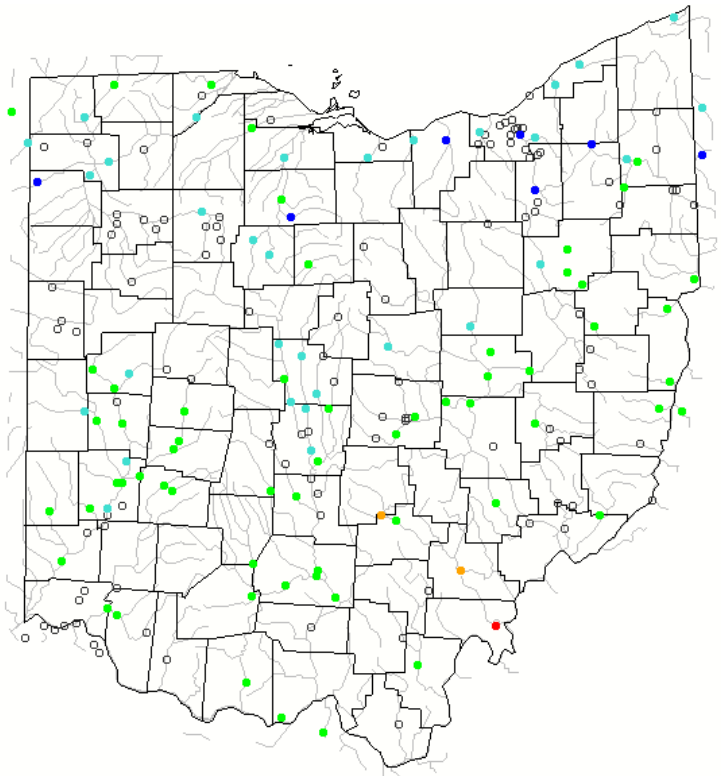
SPI: The Standardized Precipitation Index (SPI) indicates how unusual the amount of accumulated precipitation is, compared to the historical record over a given time scale.

60-Day



USGS Streamflow

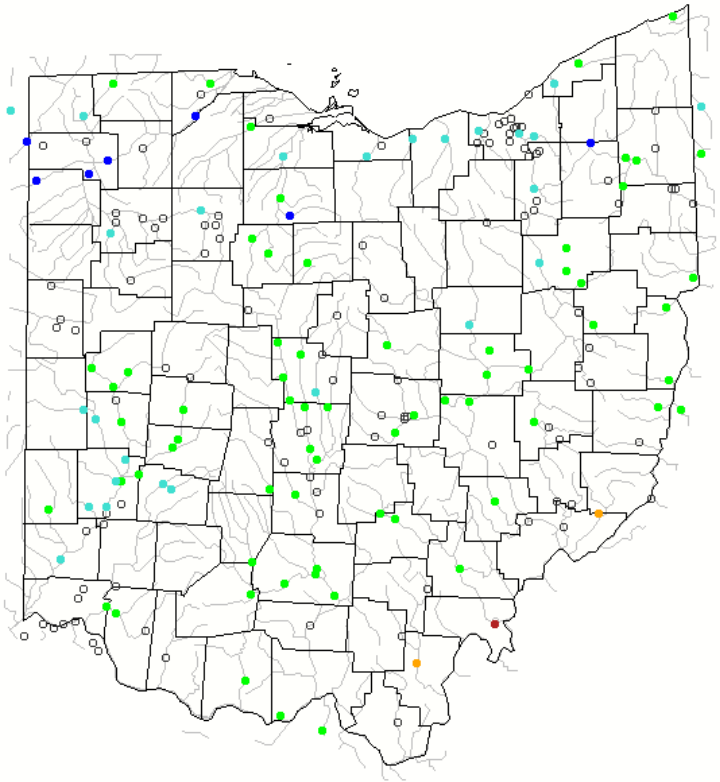
7-DAY



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		

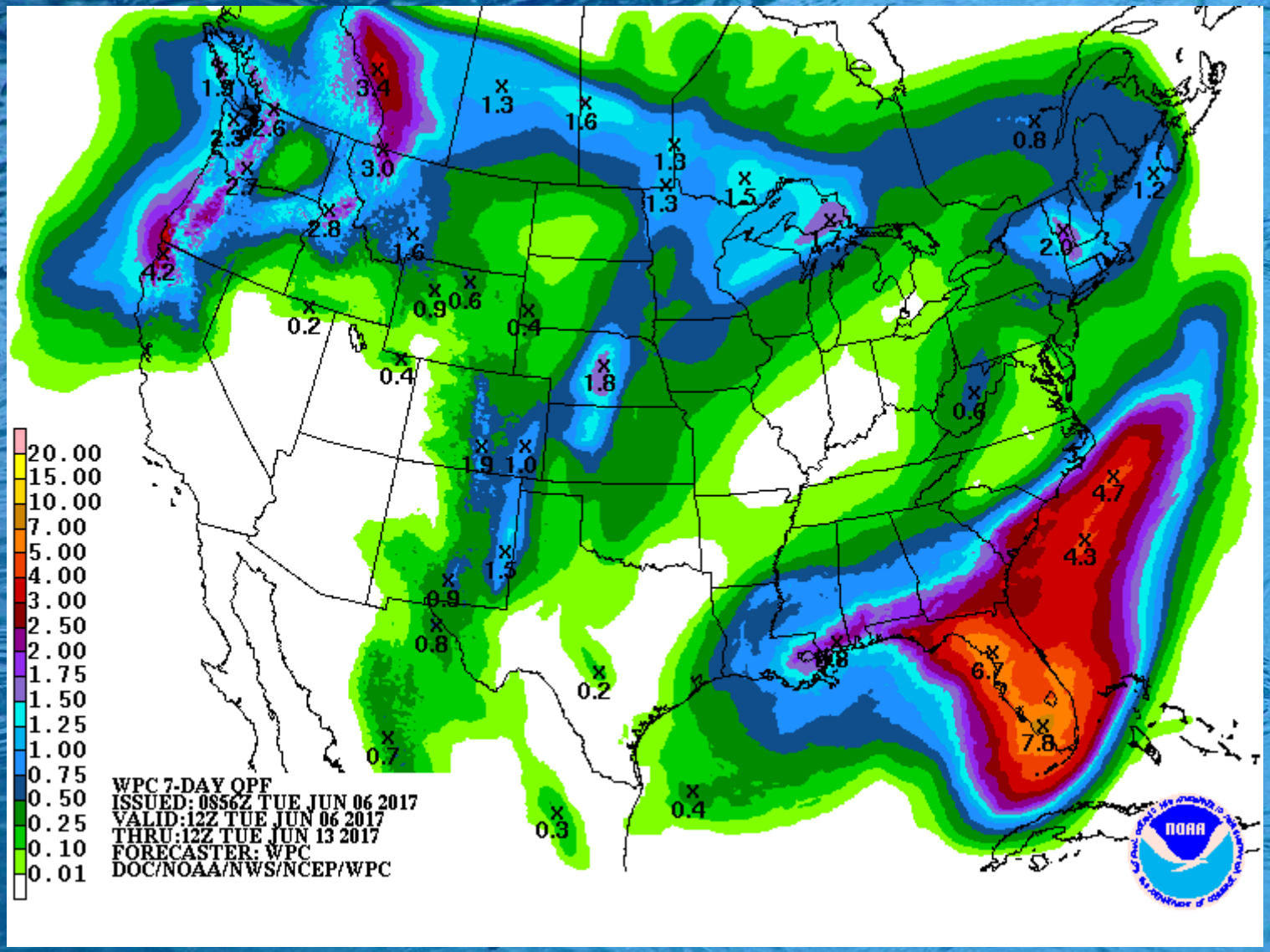
28-DAY



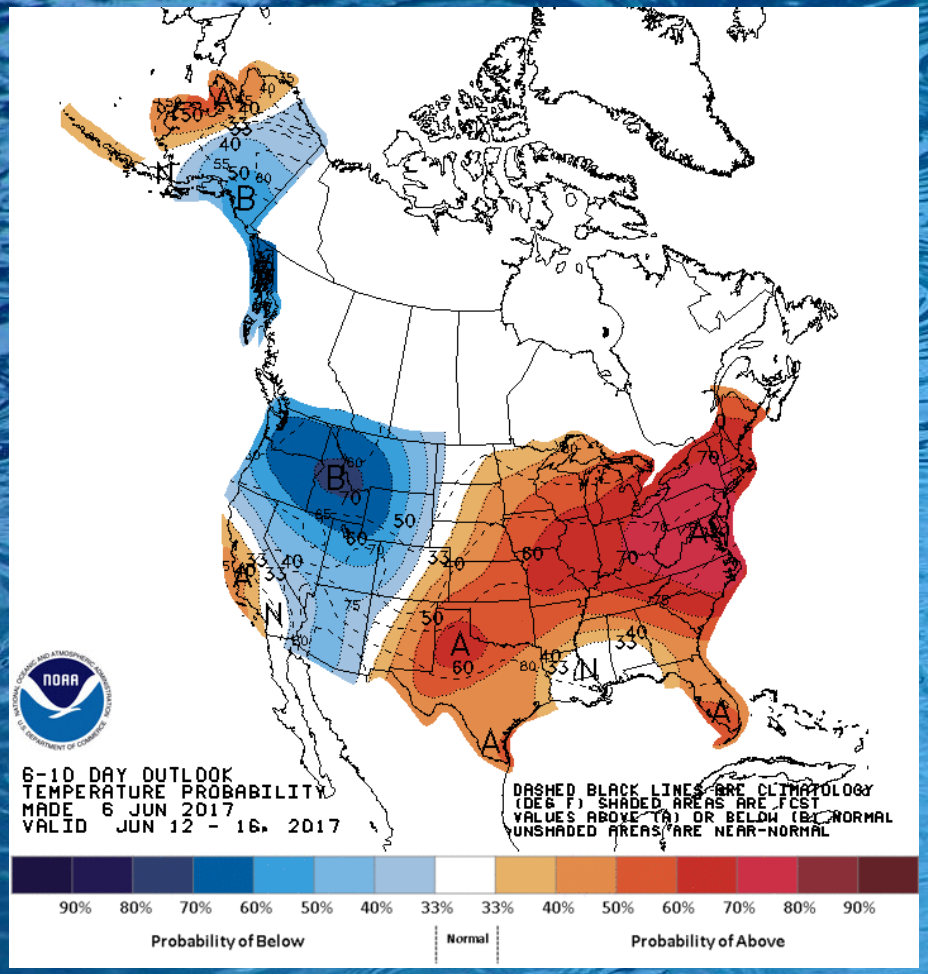
USGS

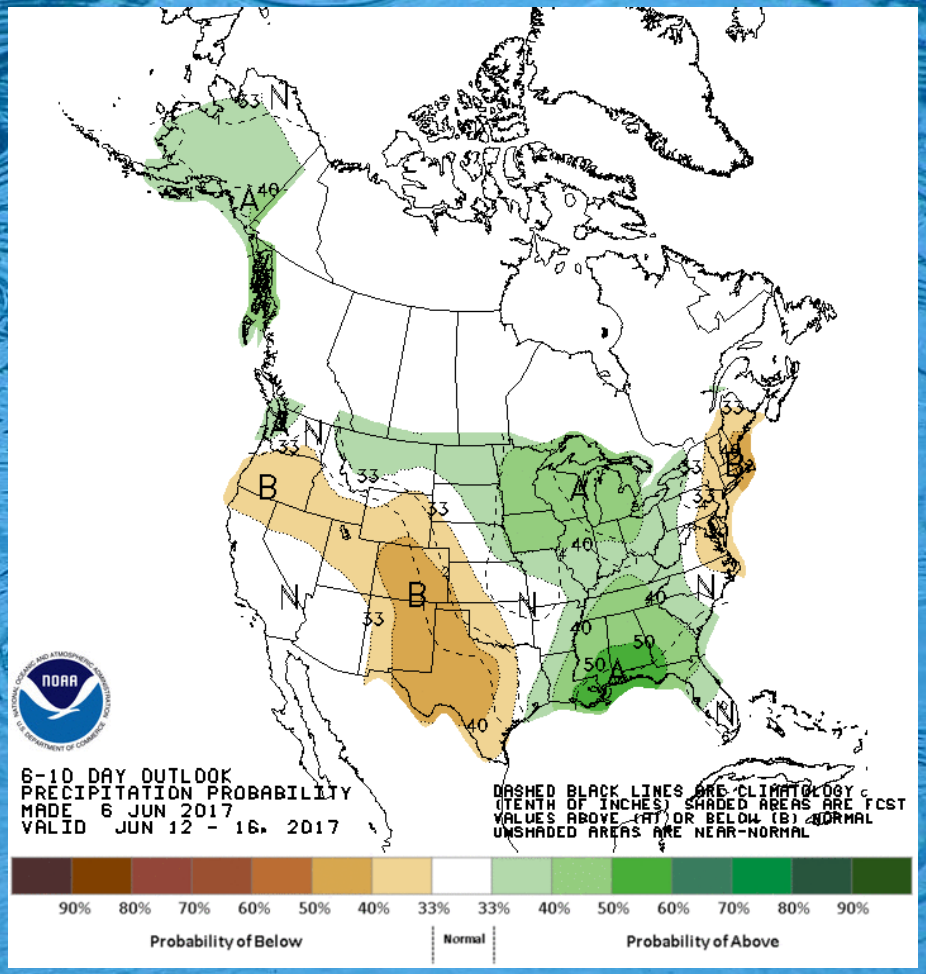
Average streamflow compared to historical streamflow for the day of the year

Weather for the Week Ahead



6-10 Day Outlook





Highs: Upper 70s to Low 80s

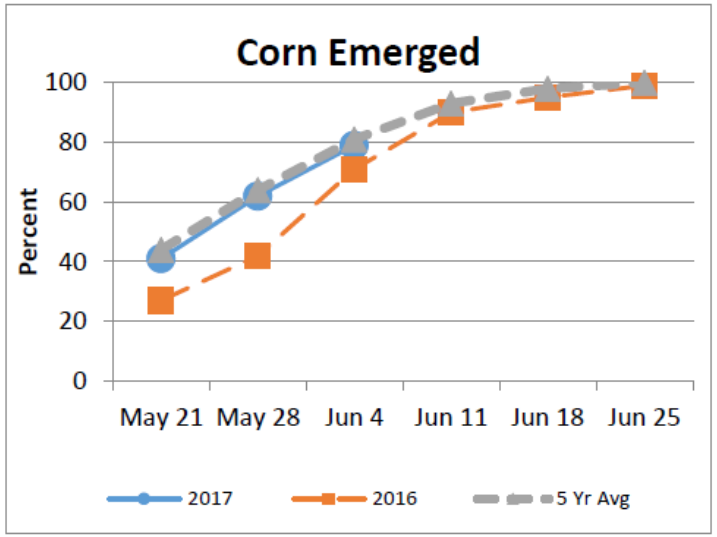
Lows: Upper 50s

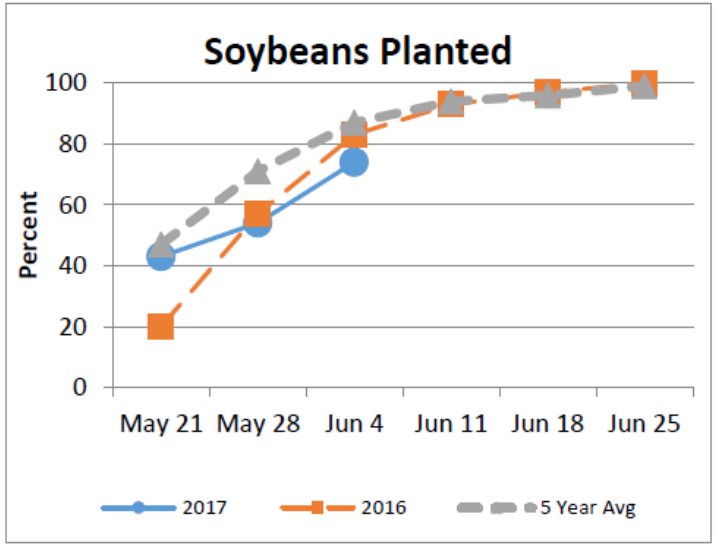
Ag Highlights

- **Warm dry weather allowed 4.6 suitable field days**
- **Corn is mostly fair to good; soybeans are behind**
- **Delayed first hay cut**

Crop Progress : Week Ending 06/04/17

Crop/Activity	Percent Completed			
	This week	Last week	Last year	5 Year average
Days Suitable for Fieldwork ..	4.6	1.8	NA	NA
Corn Planted	91	82	94	96
Corn Emerged.....	79	62	71	81
Soybeans Planted.....	74	54	83	87
Soybeans Emerged.....	52	35	51	62
Winter Wheat Headed.....	97	94	94	89
Winter Wheat Mature	1	0	NA	NA
Alfalfa Hay 1st Cutting.....	63	43	NA	NA
Other Hay 1st Cutting.....	46	31	NA	NA
Oats Emerged	97	92	93	94
Oats Headed.....	18	12	23	21





NASS: Cheryl Turner –
https://www.nass.usda.gov/Statistics_by_State/Ohio/Publications/Crop_Progress_&_Condition/2017/cw2317oh.pdf

Summary of Conditions

Photo Courtesy of Danielle Sparks

- **Drought Monitor:** No classification in Ohio
- **30-Day and 60-Day:** Drying across much of the state; Still wet in W. Central Ohio
- **30-Day temperatures:** Near Normal
- **Precipitation:** Dry week ahead; Very warm temperatures next week!