

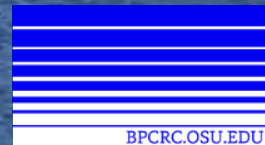
SCOO Weekly Hydrologic Outlook



THE OHIO STATE UNIVERSITY

COLLEGE OF FOOD, AGRICULTURAL,
AND ENVIRONMENTAL SCIENCES

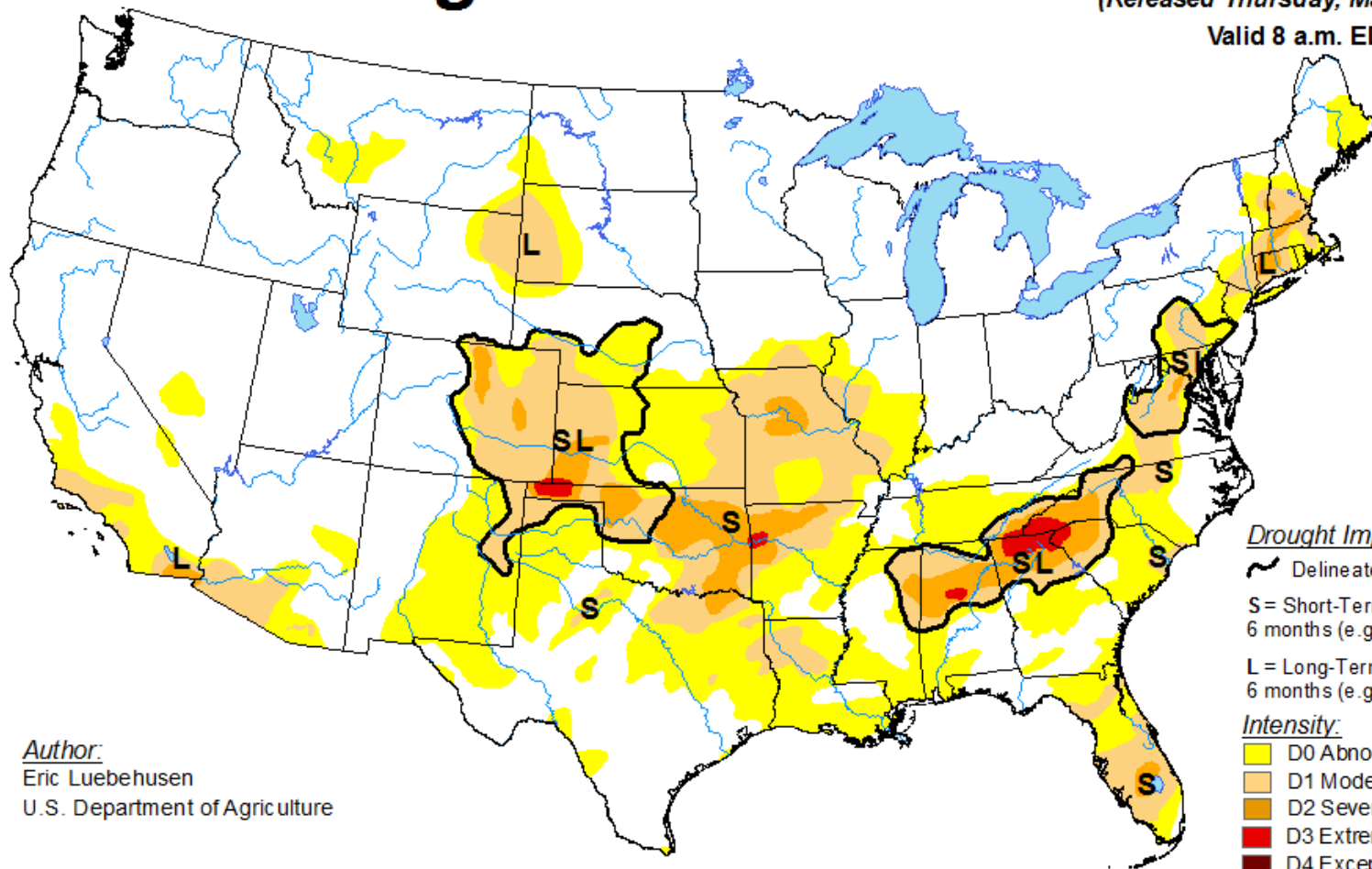
28 March 2017



BPCRC.OSU.EDU

U.S. Drought Monitor

March 21, 2017
(Released Thursday, Mar. 23, 2017)
Valid 8 a.m. EDT



Author:
Eric Luebehusen
U.S. Department of Agriculture

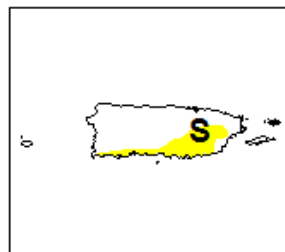
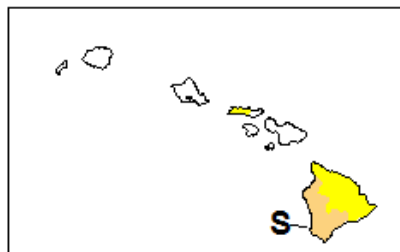
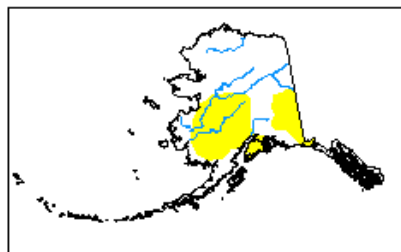
Drought Impact Types:

- 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

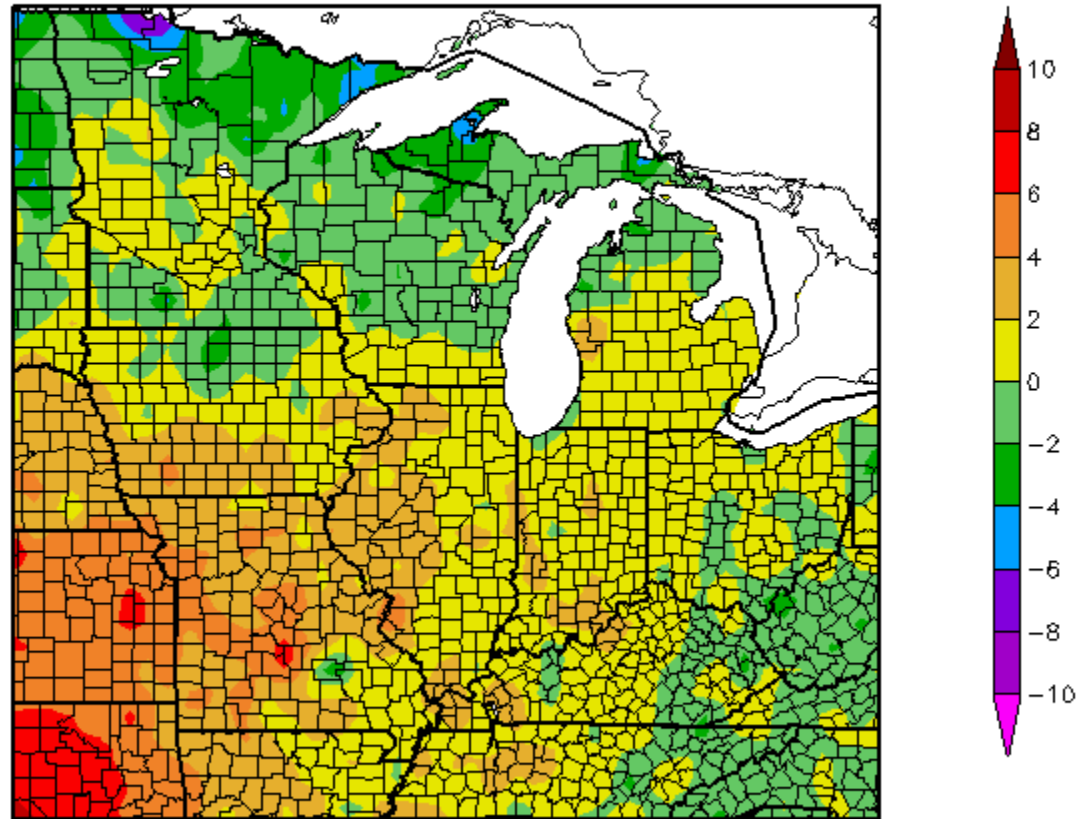
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.



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

Previous 30-Day Temperature Departure

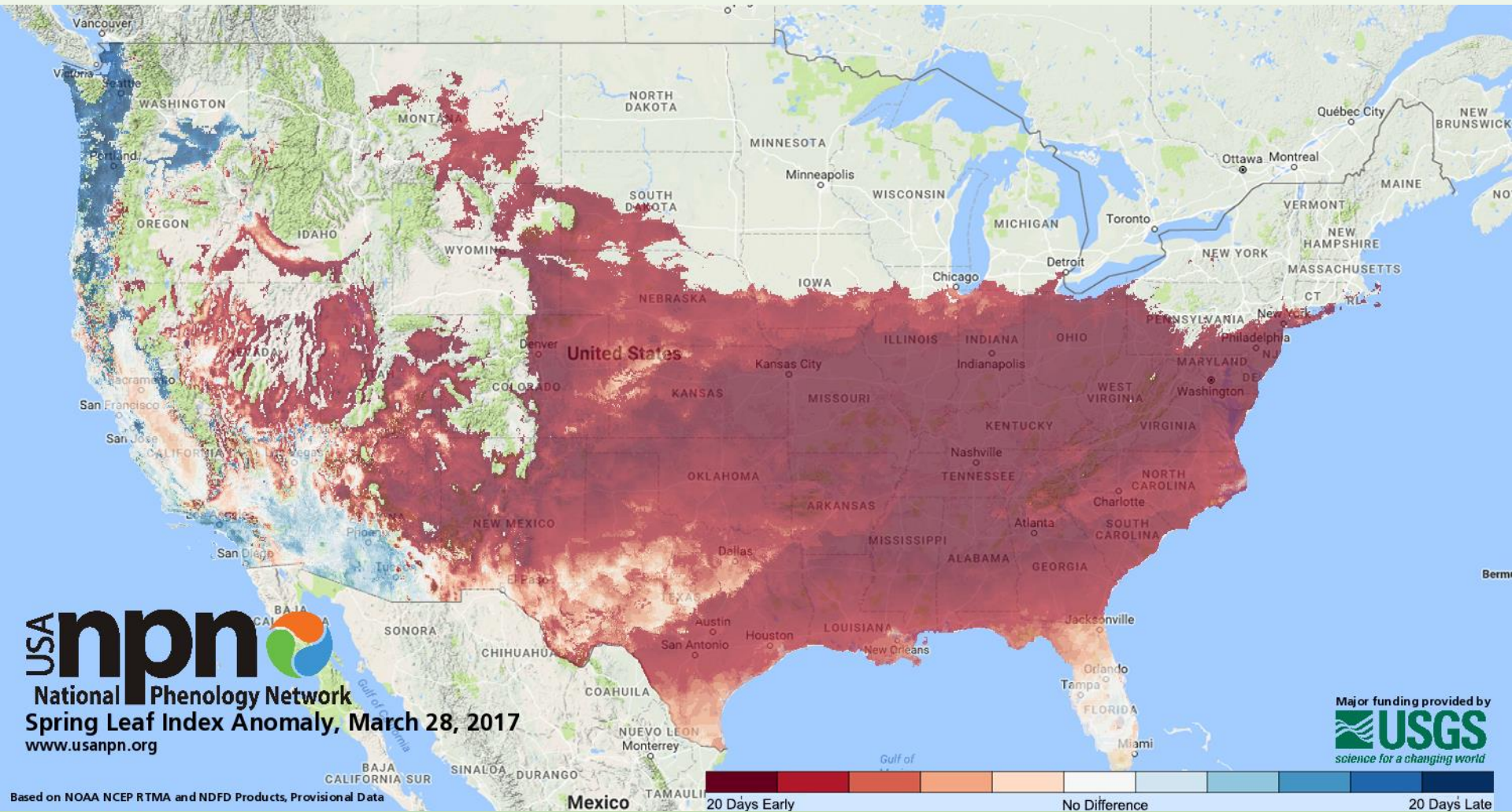
Departure from Normal Temperature (F)
2/26/2017 - 3/27/2017



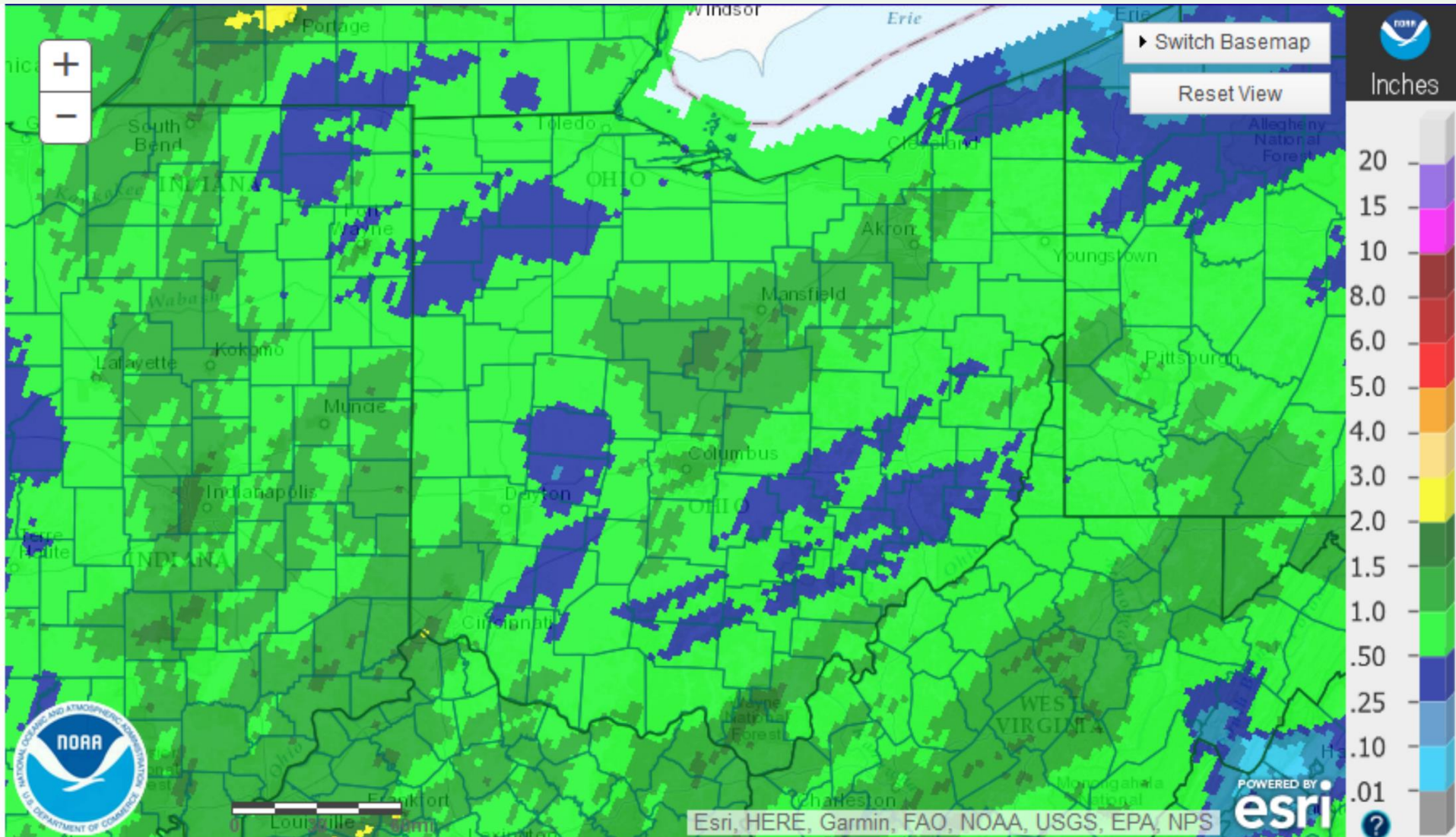
Generated 3/28/2017 at HPRCC using provisional data.

Regional Climate Centers

Early Spring Conditions



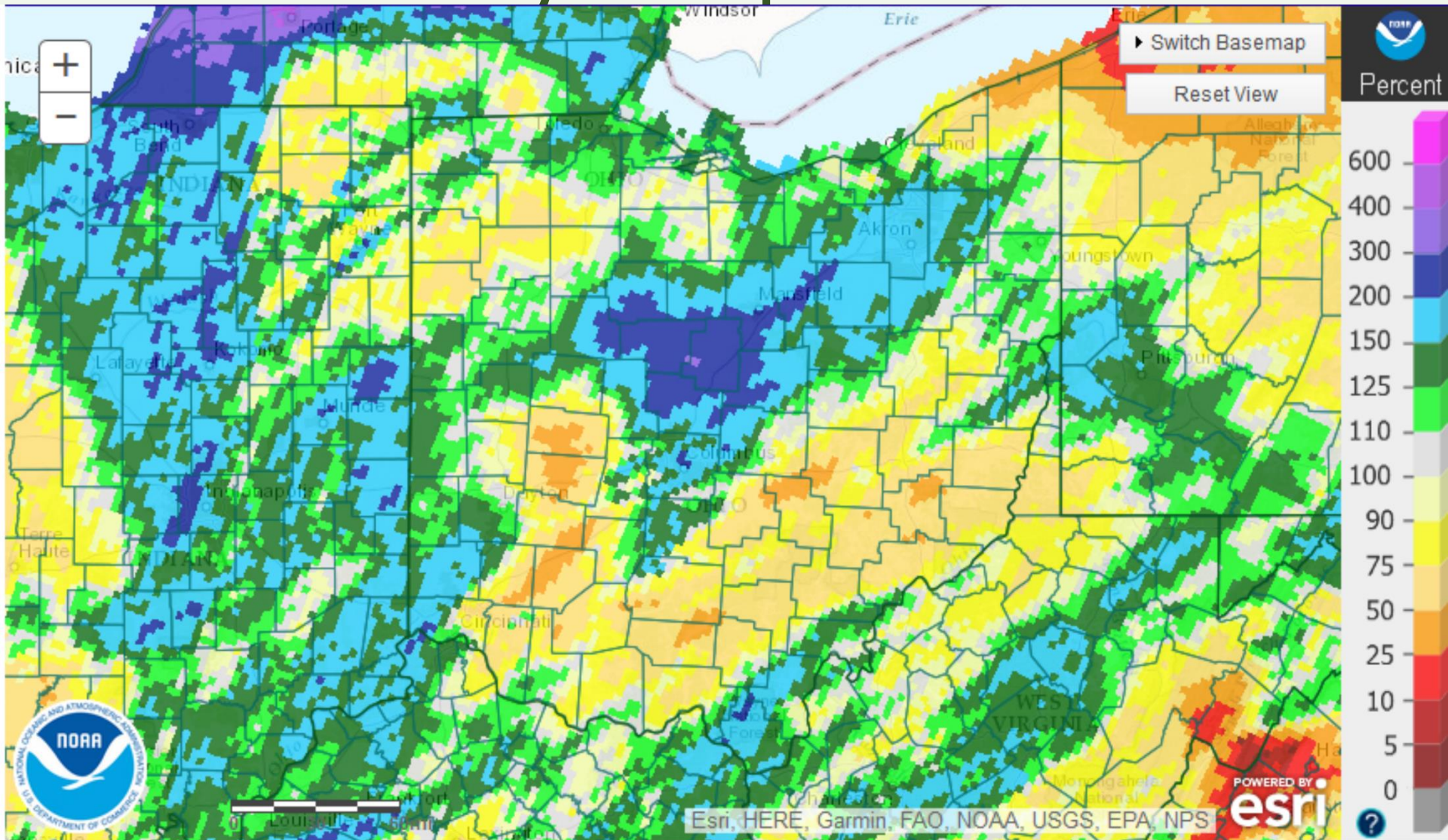
Previous 7-Day Precipitation Estimates



Total Observed



Previous 7-Day Precipitation Estimates

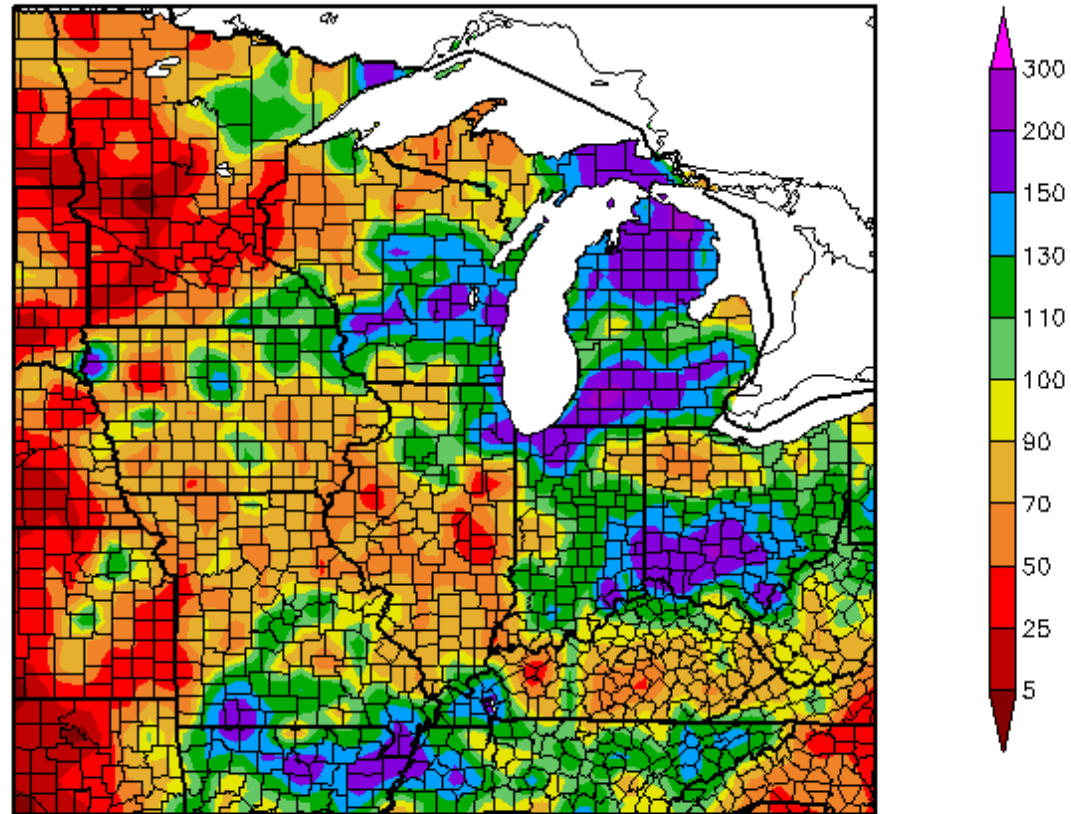


Percent of Normal



Previous 30-Days

Percent of Normal Precipitation (%)
2/26/2017 - 3/27/2017



Generated 3/28/2017 at HPRCC using provisional data.

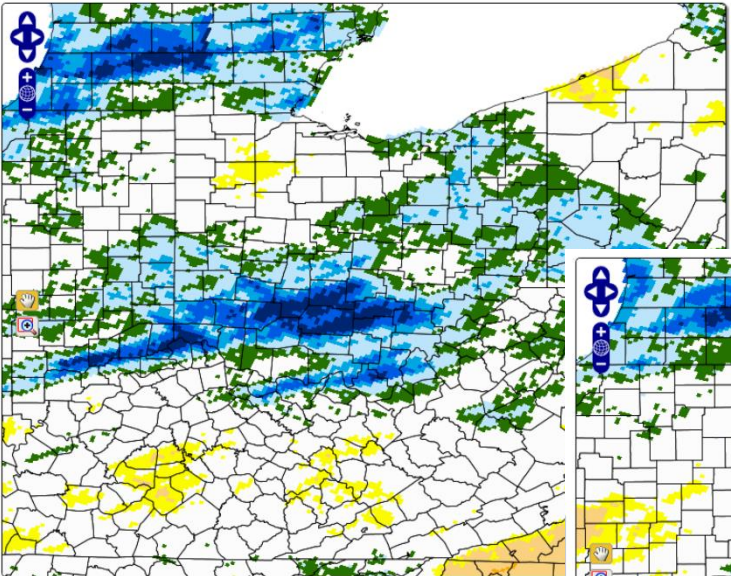
Regional Climate Centers

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.

State Climate Office of North Carolina
 Email: sco@climate.ncsu.edu Phone: 919-515-3056

Data and Products Aspects of NC Climate Educational Outreach About Our Office Search

Experimental High Resolution Drought Trigger Tool

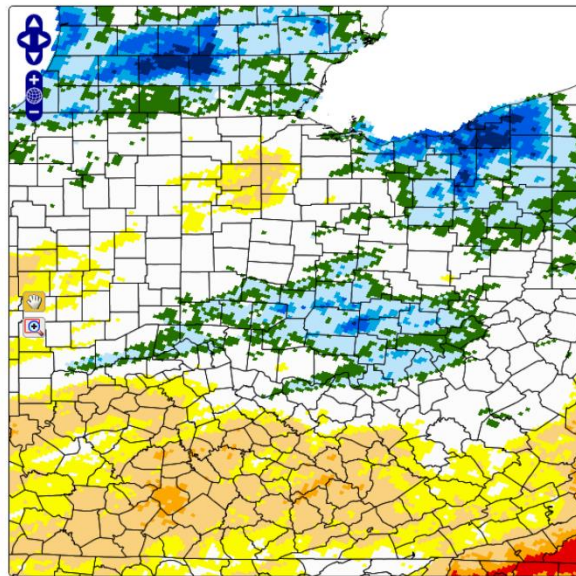


30 day SPI for March 27, 2017

-2	-1.6	-1.3	-0.8	-0.5	0.5	0.8	1.3	1.6	2	
Exceptional Dryness	Extreme Dryness	Severe Dryness	Moderate Dryness	Abnormal Dryness	Normal	Abnormal Wetness	Moderate Wetness	Severe Wetness	Extreme Wetness	Exceptional Wetness

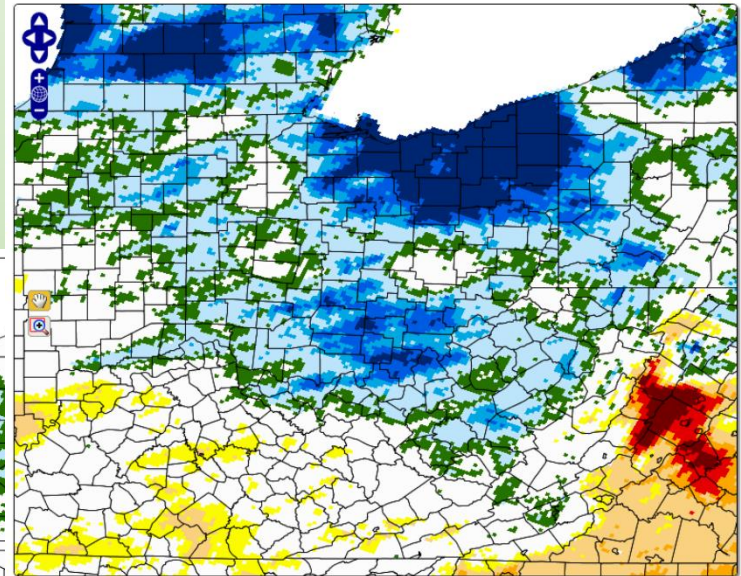
30-Day

60-Day



60 day SPI for March 27, 2017

-2	-1.6	-1.3	-0.8	-0.5	0.5	0.8	1.3	1.6	2	
Exceptional Dryness	Extreme Dryness	Severe Dryness	Moderate Dryness	Abnormal Dryness	Normal	Abnormal Wetness	Moderate Wetness	Severe Wetness	Extreme Wetness	Exceptional Wetness



90 day SPI for March 27, 2017

-2	-1.6	-1.3	-0.8	-0.5	0.5	0.8	1.3	1.6	2	
Exceptional Dryness	Extreme Dryness	Severe Dryness	Moderate Dryness	Abnormal Dryness	Normal	Abnormal Wetness	Moderate Wetness	Severe Wetness	Extreme Wetness	Exceptional Wetness

90-Day

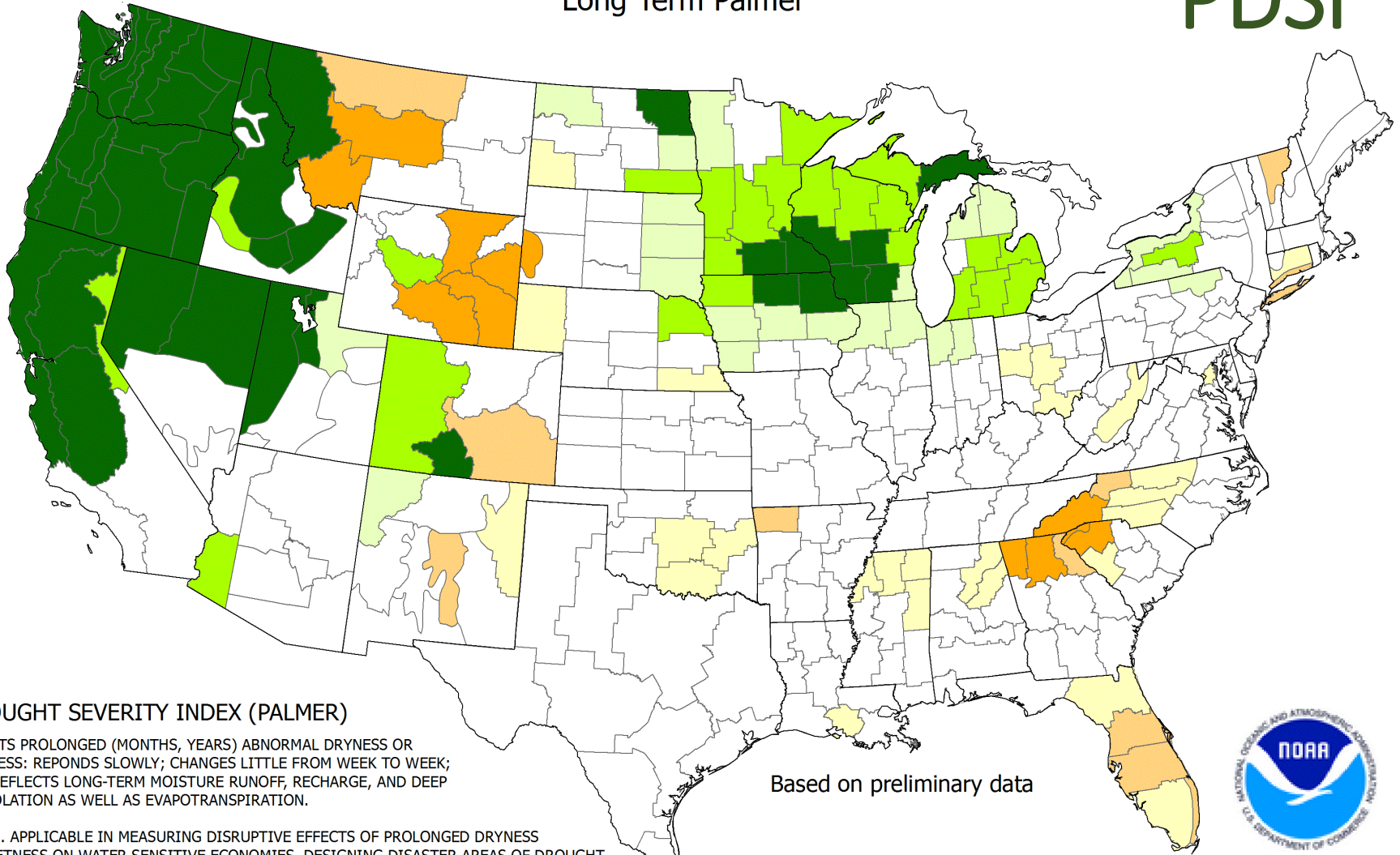
Transparency:
[About these maps](#)

Drought Severity Index by Division

Weekly Value for Period Ending Mar 25, 2017

Long Term Palmer

PDSI



DROUGHT SEVERITY INDEX (PALMER)

DEPICTS PROLONGED (MONTHS, YEARS) ABNORMAL DRYNESS OR WETNESS; REponds SLOWLY; CHANGES LITTLE FROM WEEK TO WEEK; AND REFLECTS LONG-TERM MOISTURE RUNOFF, RECHARGE, AND DEEP PERCOLATION AS WELL AS EVAPOTRANSPIRATION.

USES... APPLICABLE IN MEASURING DISRUPTIVE EFFECTS OF PROLONGED DRYNESS OR WETNESS ON WATER SENSITIVE ECONOMIES, DESIGNING DISASTER AREAS OF DROUGHT OR WETNESS; AND REFLECTING THE GENERAL LONG-TERM STATUS OF WATER SUPPLIES IN AQUIFERS, RESERVOIRS AND STREAMS.

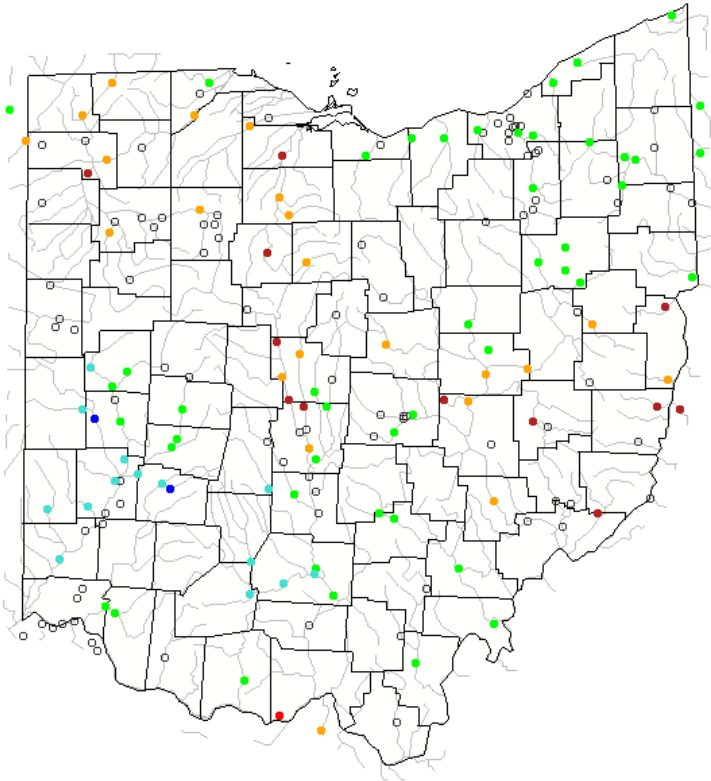
LIMITATIONS... IS NOT GENERALLY INDICATIVE OFFSHORT-TERM (FEW WEEKS) STATUS OF DROUGHT OR WETNESS SUCH AS FREQUENTLY AFFECTS CROPS AND FIELD OPERATIONS (THIS IS INDICATED BY THE CROP MOISTURE INDEX).

Based on preliminary data



- | | |
|--|---|
| ■ -4.0 or less (Extreme Drought) | ■ +2.0 to +2.9 (Unusual Moist Spell) |
| ■ -3.0 to -3.9 (Severe Drought) | ■ +3.0 to +3.9 (Very Moist Spell) |
| ■ -2.0 to -2.9 (Moderate Drought) | ■ +4.0 and above (Extremely Moist) |
| ■ -1.9 to +1.9 (Near Normal) | |

7-DAY



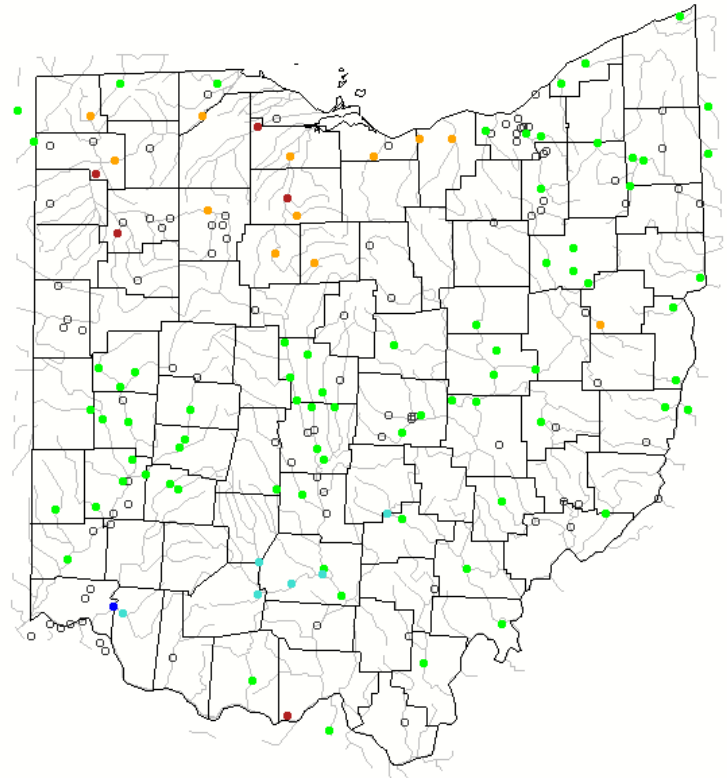
Explanation - Percentile classes

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

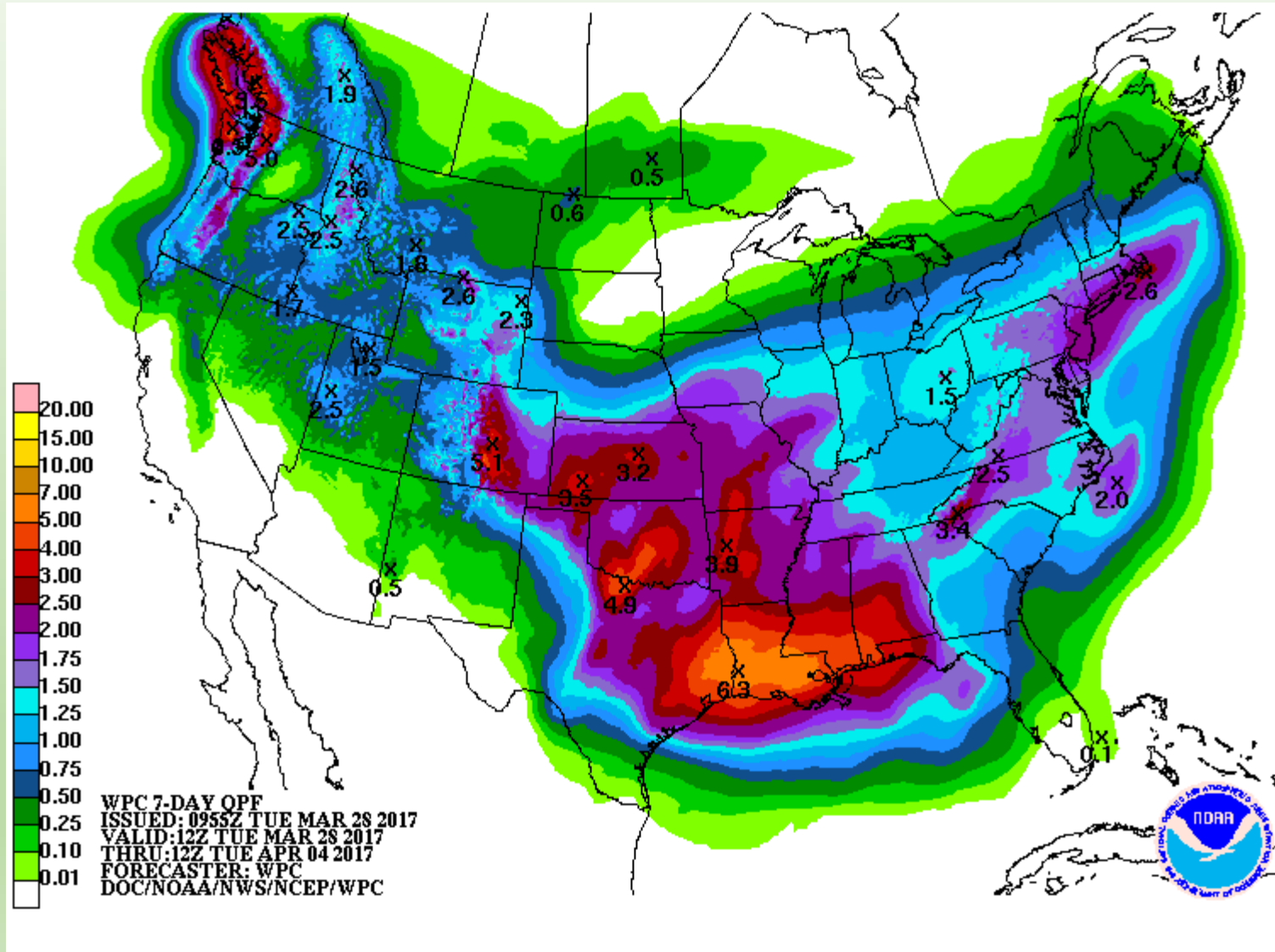
Average streamflow compared to historical streamflow for the day of the year

USGS Streamflow

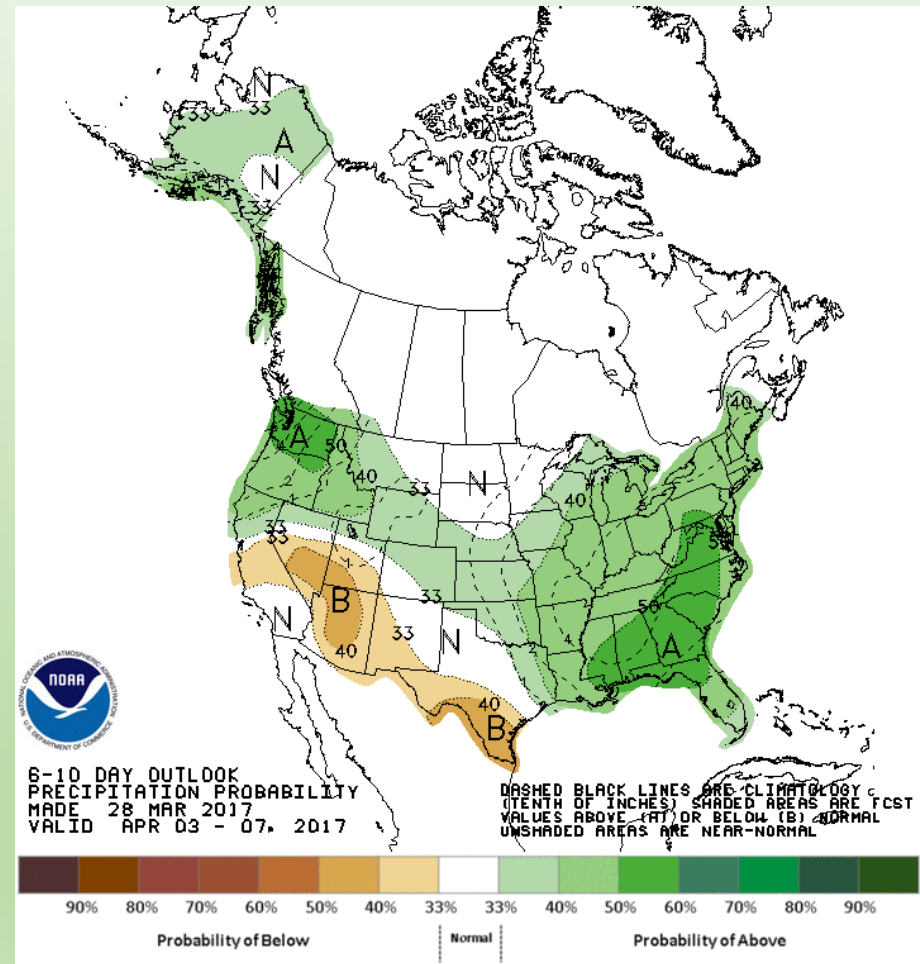
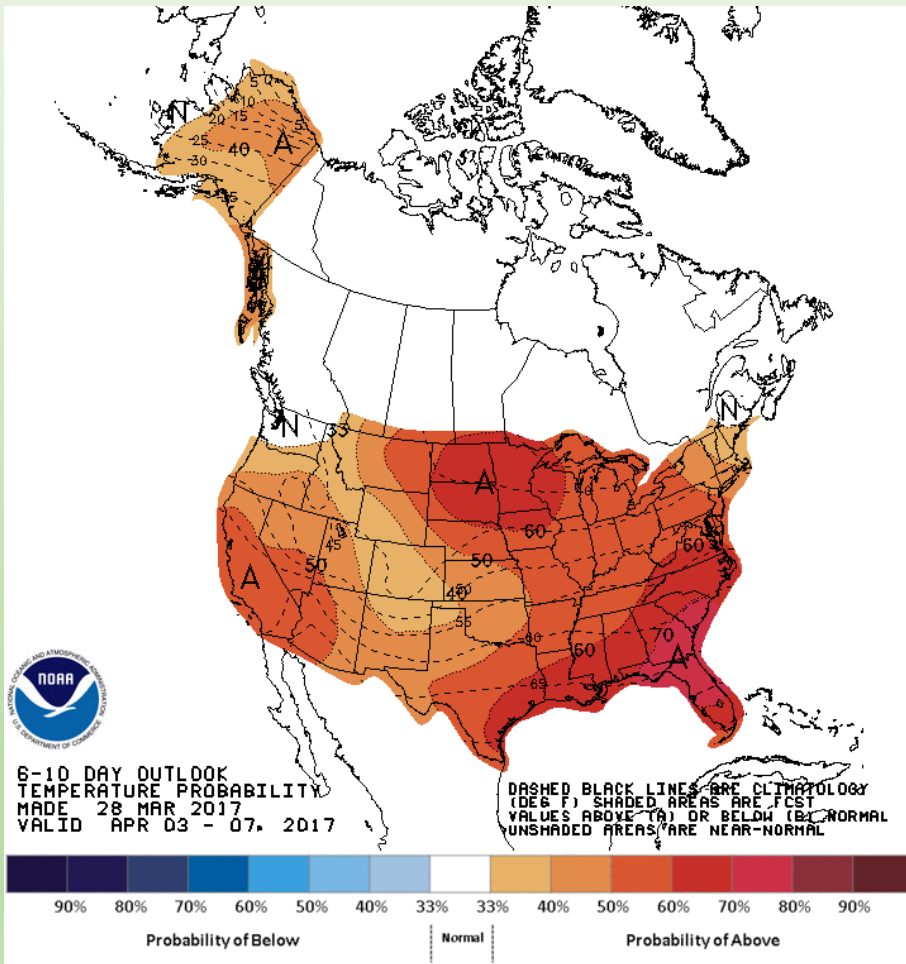
28-DAY



Weather for the Week Ahead



6-10 Day Outlook



Ag Impacts

Magnolia Freeze-Damaged Bloom
Picture Taken on 3-25-2017



Weeping Cherry Bloom
Picture Taken on 3-27-2017



Joe Boggs
Assistant Professor
Commercial Horticulture Educator
Ohio State University Extension / OSU
Department of Entomology
OSU Extension, Hamilton County

Redbud Bloom Buds
Picture Taken on 3-27-2017



Summary of Conditions



- **Drought Monitor:** N/A
- **30-Day and 60-Day:** Decent precipitation across much of the state; a little dry in the NW
- **30-Day temperatures:** Closer to normal temperatures recently; Spring indices are still about 20 days ahead of schedule across all of the state now
- **Precipitation:** Opportunities remain above normal through the next 7-days