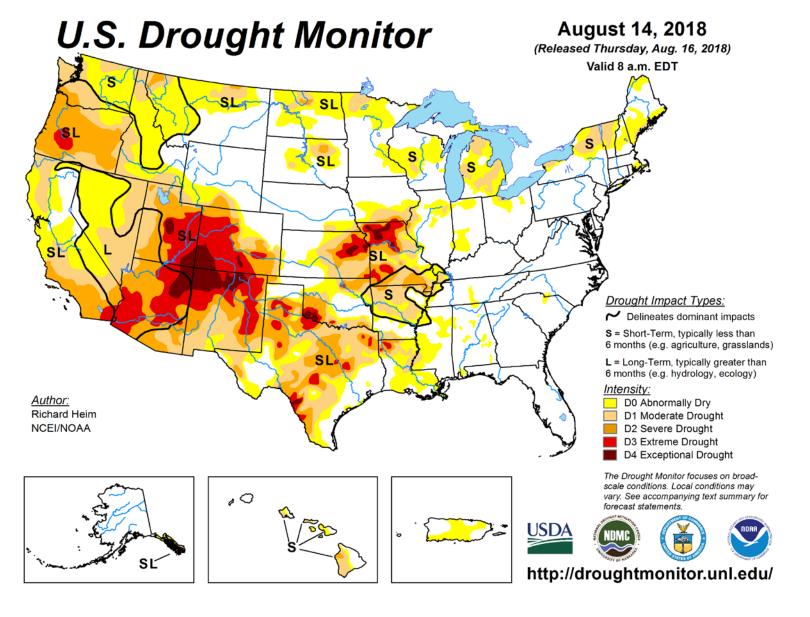
### Hydrologic and Climate Assessment August 17, 2018



The Ohio State University

Aaron B. Wilson STATE CLIMATE OFFICE OF OHIO (SCOO) DEPARTMENT OF EXTENSION - CFAES BYRD POLAR & CLIMATE RESEARCH CENTER DEPARTMENT OF GEOGRAPHY



THE OHIO STATE UNIVERSITY

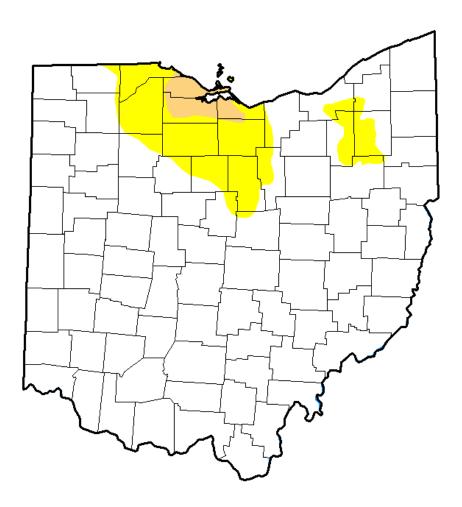
#### STATE CLIMATE OFFICE OF OHIO (SCOO)

### U.S. Drought Monitor Ohio

#### August 14, 2018

(Released Thursday, Aug. 16, 2018) Valid 8 a.m. EDT

Drought Conditions (Percent Area)



	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	87.73	12.27	1.69	0.00	0.00	0.00
Last Week 08-07-2018	86.54	13.46	3.47	0.00	0.00	0.00
3 Month s Ago 05-15-2018	100.00	0.00	0.00	0.00	0.00	0.00
Start of Calendar Year 01-02-2018	100.00	0.00	0.00	0.00	0.00	0.00
Start of Water Year 09-26-2017	71.57	28.43	3.85	0.00	0.00	0.00
One Year Ago 08-15-2017	97.47	2.53	0.00	0.00	0.00	0.00

#### Intensity:



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

<u>Author:</u> Richard Heim NCEI/NOAA



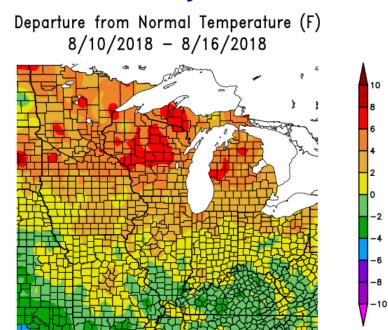
http://droughtmonitor.unl.edu/



#### STATE CLIMATE OFFICE OF OHIO (SCOO)

### Temperature Differences Compared to Average (1981-2010)

7-Day



Generated 8/17/2018 at HPRCC using provisional data.

NOAA Regional Climate Centers





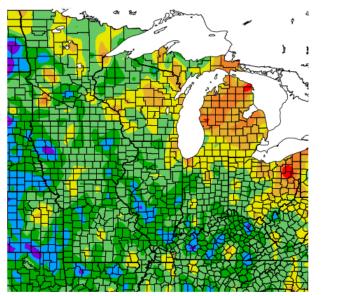
# Temperature Differences Compared to Average (1981-2010)

-2 -3

- 5

### **30-Day**

Departure from Normal Temperature (F) 7/18/2018 - 8/16/2018



Generated 8/17/2018 at HPRCC using provisional data.

#### 60-Day

Departure from Normal Temperature (F) 6/18/2018 - 8/16/2018

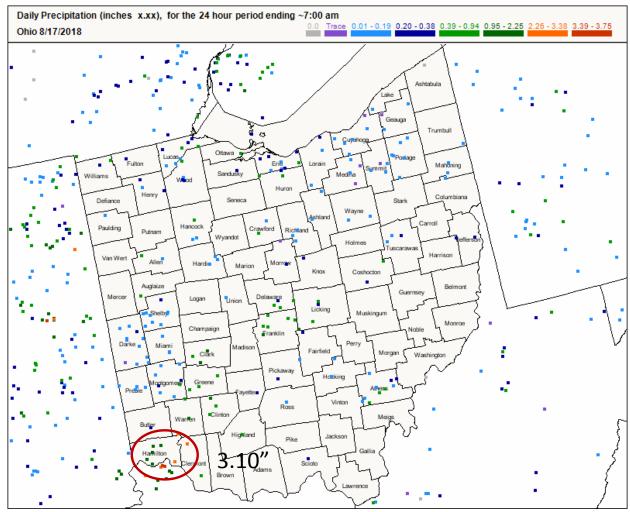
NOAA Regional Climate Centers Generated 8/17/2018 at HPRCC using provisional data.

NOAA Regional Climate Centers





# CoCoRaHS Observed Precipitation:http://cocorahs.com/August 17

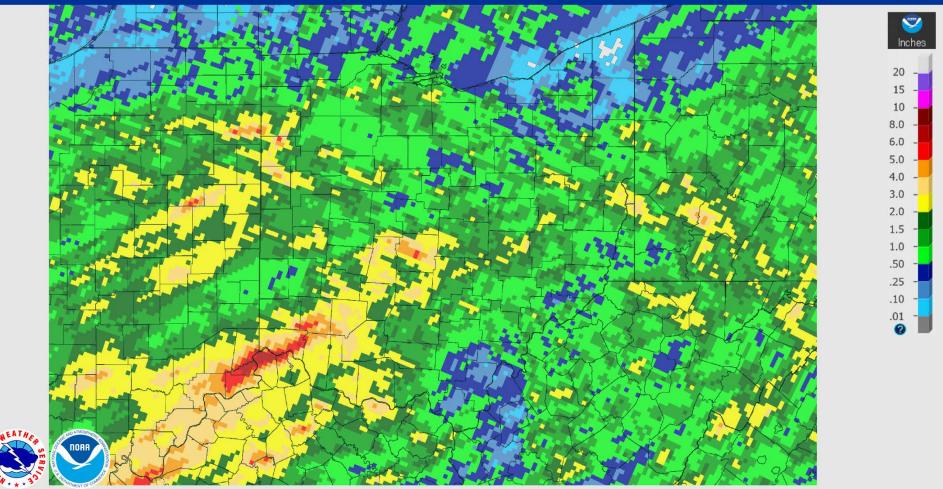


STATE CLIMATE OFFICE OF OHIO (SCOO)



### **Previous 7-Day Precipitation: Total**

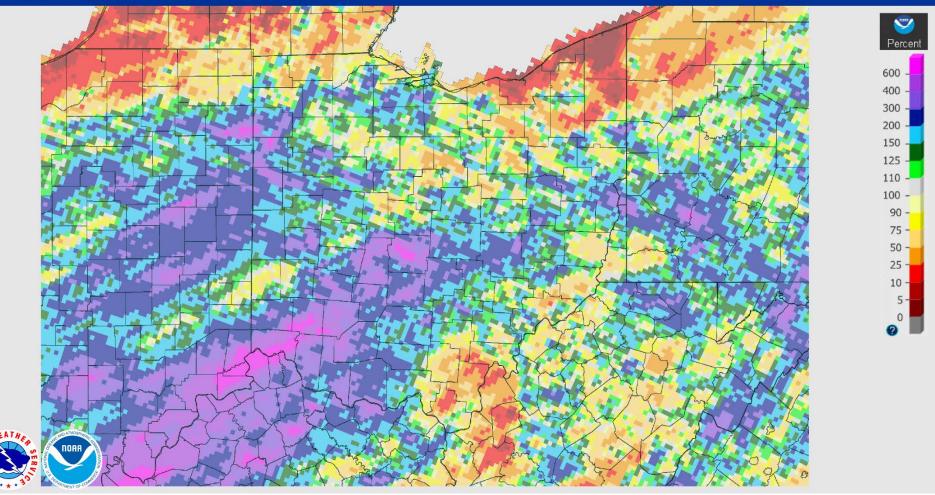
August 17, 2018 7-Day Observed Precipitation Created on: August 17, 2018 - 17:36 UTC Valid on: August 17, 2018 12:00 UTC





### **Previous 7-Day Precipitation: Percent of Normal**

August 17, 2018 7-Day Percent Precipitation Created on: August 17, 2018 - 17:35 UTC Valid on: August 17, 2018 12:00 UTC





### Precipitation Differences Compared to Average (1981-2010)

300

200

150

130

110

100

90

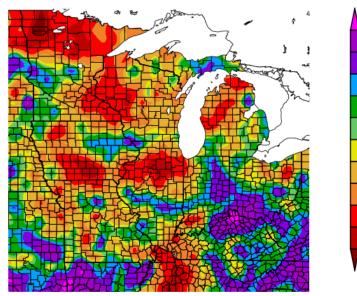
70

50

25

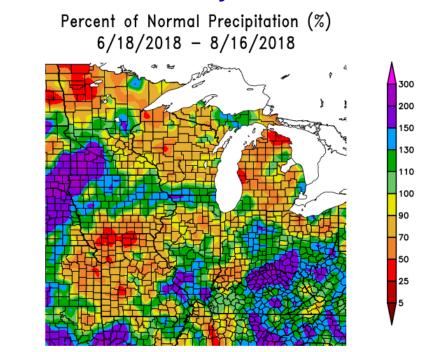
### **30-Day**

Percent of Normal Precipitation (%) 7/18/2018 - 8/16/2018



Generated 8/17/2018 at HPRCC using provisional data.

#### 60-Day



NOAA Regional Climate Centers Generated 8/17/2018 at HPRCC using provisional data.

NOAA Regional Climate Centers

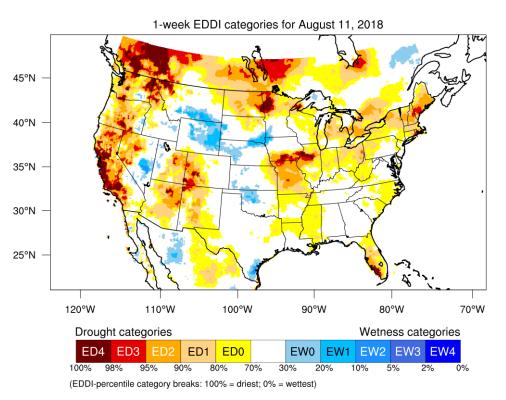




### **Evaporative Demand Drought Index**

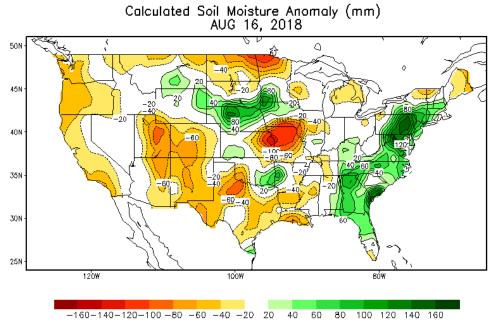
early EDDI offer warning can of agricultural drought, hydrologic drought, and fire-weather risk by providing nearreal-time information on the emergence or persistence of anomalous evaporative demand in a region. A particular strength of EDDI is in capturing the precursor signals of water stress at weekly to monthly timescales, which makes EDDI a strong tool for preparedness for both flash droughts and ongoing droughts.

Image provided by the NOAA/ESRL Physical Sciences Division, Boulder, Colorado, from their web site at: https://www.esrl.noaa.gov/psd/.

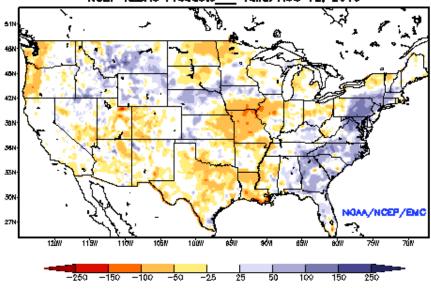


Generated by NOAA/ESRL/Physical Sciences Division

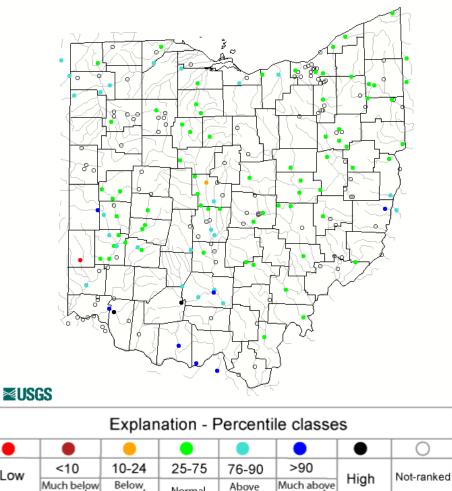
### **Soil Moisture**



Ensemble-Mean - Current Total Column Soit Moisture Anomaly (mm) NCEP NLDAS Products\_\_\_\_ Valid: AUG 12, 2018



**7-DAY** 



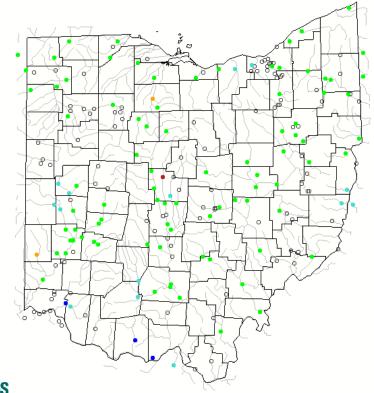
Average streamflow compared to historical streamflow for the day of the year

normal

normal

### **USGS** Streamflow

**28-DAY** 



≊USGS

STATE CLIMATE OFFICE OF OHIO (SCOO)

THE OHIO STATE UNIVERSITY

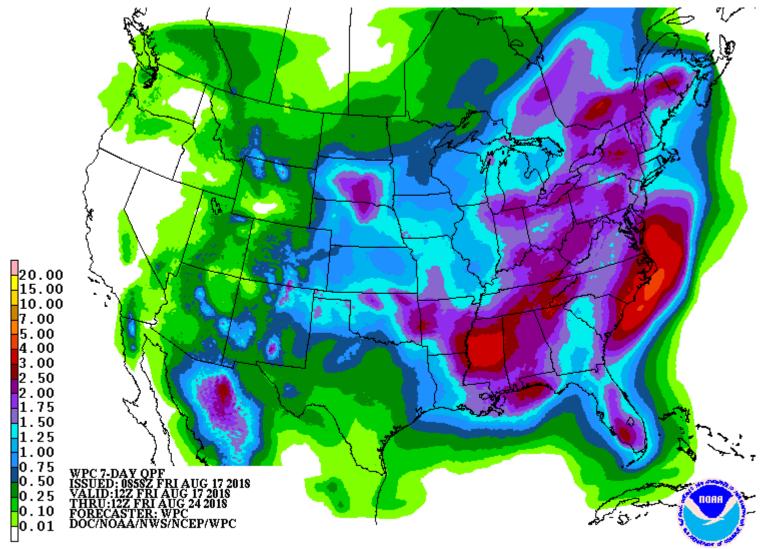
Normal

normal

norma

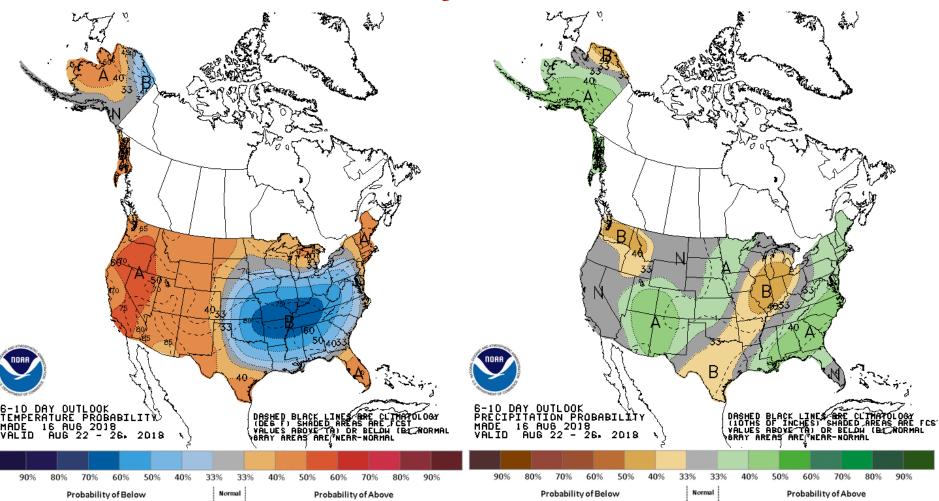
Low

### Weather for the Week Ahead



THE OHIO STATE UNIVERSITY

### 6-10 Day Outlook



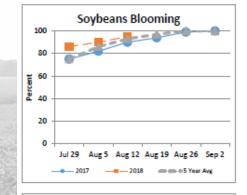
Highs: Low to mid 80s; Lows: Low to mid 60s; Precip: 0.75-1"

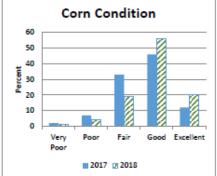
THE OHIO STATE UNIVERSITY

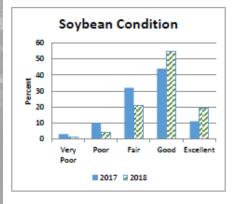
STATE CLIMATE OFFICE OF OHIO (SCOO)

## **Ag Highlights**

- 4.3 days suitable for work
- Corn and soybean development ahead of schedule
- Improved pastures lowered stress on livestock







#### NASS: Cheryl Turner -

https://www.nass.usda.gov/Statistics\_by\_State/Ohio/Publications/Crop\_Progress\_&\_Condition/2017/cw3017oh.pdf



# **Summary of Conditions**



#### Photo: Kat Bledsoe Instagram-@katscanx

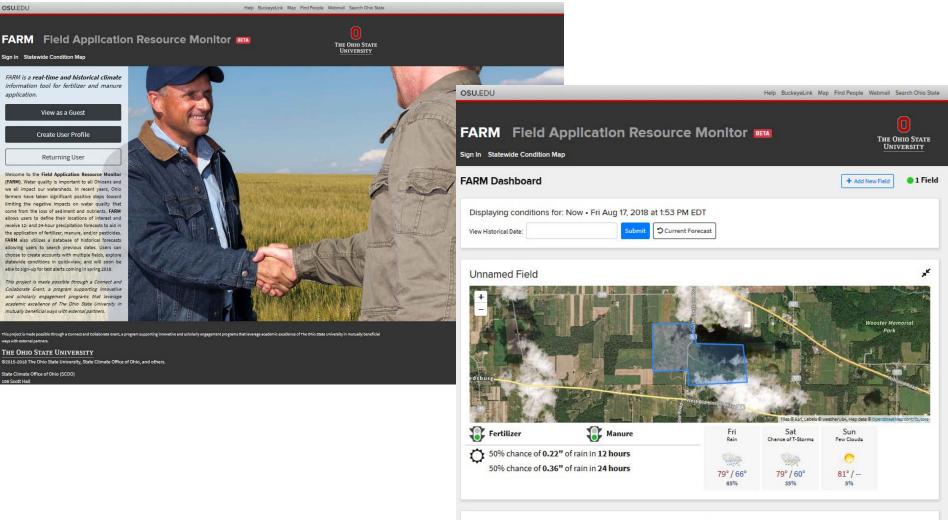
Drought Monitor: Some drought removal in parts of NW; Status quo elsewhere

**30-Day and 60-Day:** Warmest in the NE where it is drier; Precipitation heaviest in South

**The week ahead:** Showery/Stormy Friday and Saturday then again Monday-Tuesday: 1-2" of rainfall this week with slightly cooler than normal temperatures



## Field Application Resource Monitor FARM



### https://farm.bpcrc.osu.edu

