Hydrologic and Climate Assessment

July 27, 2018

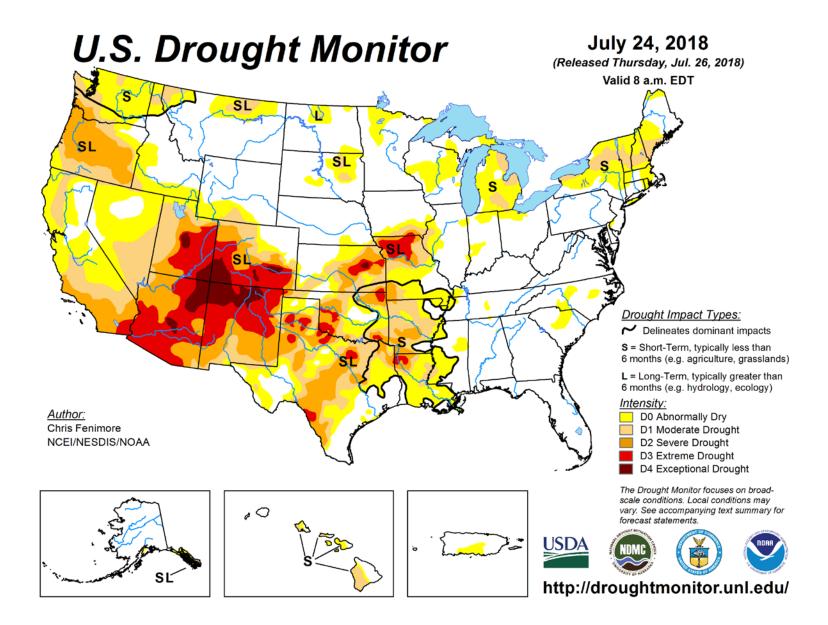




Aaron B. Wilson

STATE CLIMATE OFFICE OF OHIO (SCOO)

DEPARTMENT OF EXTENSION - CFAES
BYRD POLAR & CLIMATE RESEARCH CENTER
DEPARTMENT OF GEOGRAPHY





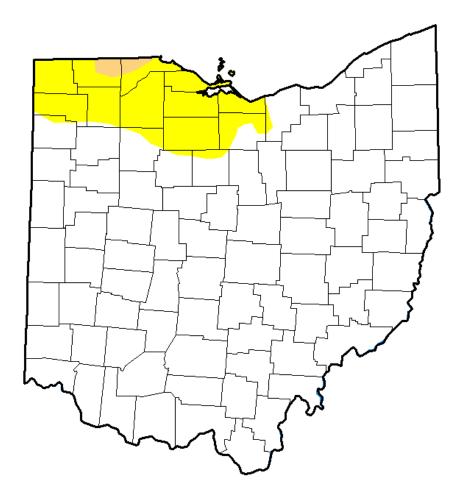
COLLEGE OF FOOD, AGRICULTURAL, AND ENVIRONMENTAL SCIENCES

DEPARTMENT OF EXTENSION

BYRD POLAR & CLIMATE RESEARCH CENTER

DEPARTMENT OF GEOGRAPHY

U.S. Drought Monitor Ohio



July 24, 2018

(Released Thursday, Jul. 26, 2018)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	88.61	11.39	0.57	0.00	0.00	0.00
Last Week 07-17-2018	95.91	4.09	0.00	0.00	0.00	0.00
3 Month's Ago 04-24-2018	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 07-25-2017	100.00	0.00	0.00	0.00	0.00	0.00

Intensity:

D0 Abnormally Dry

D3 Extreme Drought

D1 Moderate Drought

D1 Moderate Drought

D2 Severe 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









http://droughtmonitor.unl.edu/

STATE CLIMATE OFFICE OF OHIO (SCOO)

COLLEGE OF FOOD, AGRICULTURAL, AND ENVIRONMENTAL SCIENCES

DEPARTMENT OF EXTENSION

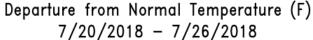
BYRD POLAR & CLIMATE RESEARCH CENTER

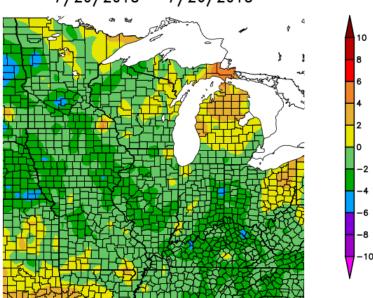
DEPARTMENT OF GEOGRAPHY



Temperature Differences Compared to Average (1981-2010)

7-Day





Generated 7/27/2018 at HPRCC using provisional data.

NOAA Regional Climate Centers

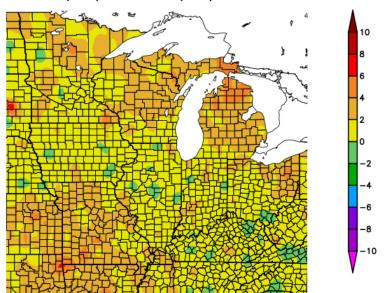




Temperature Differences Compared to Average (1981-2010)

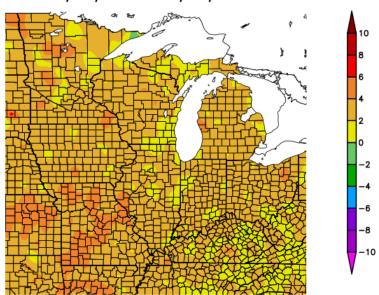
30-Day

Departure from Normal Temperature (F) 6/27/2018 - 7/26/2018



60-Day

Departure from Normal Temperature (F) 5/28/2018 - 7/26/2018



Generated 7/27/2018 at HPRCC using provisional data.

NOAA Regional Climate Centers Generated 7/27/2018 at HPRCC using provisional data.

NOAA Regional Climate Centers

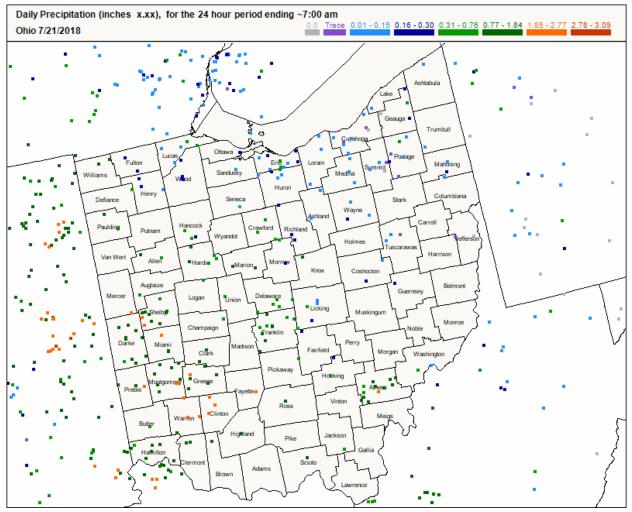




CoCoRaHS Observed Precipitation:

http://cocorahs.com/

July 21

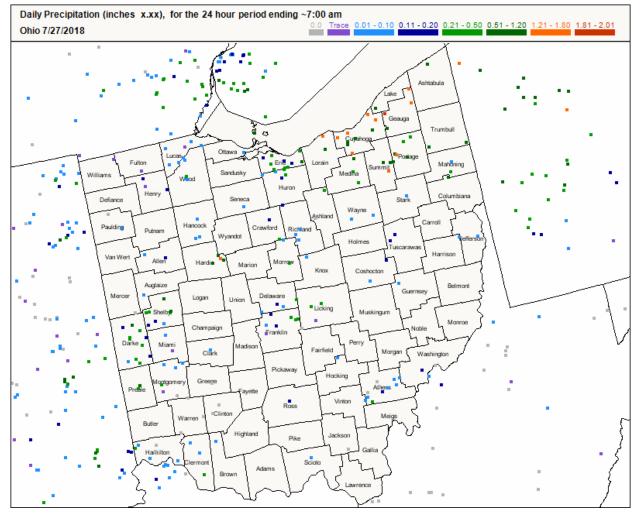




CoCoRaHS Observed Precipitation:

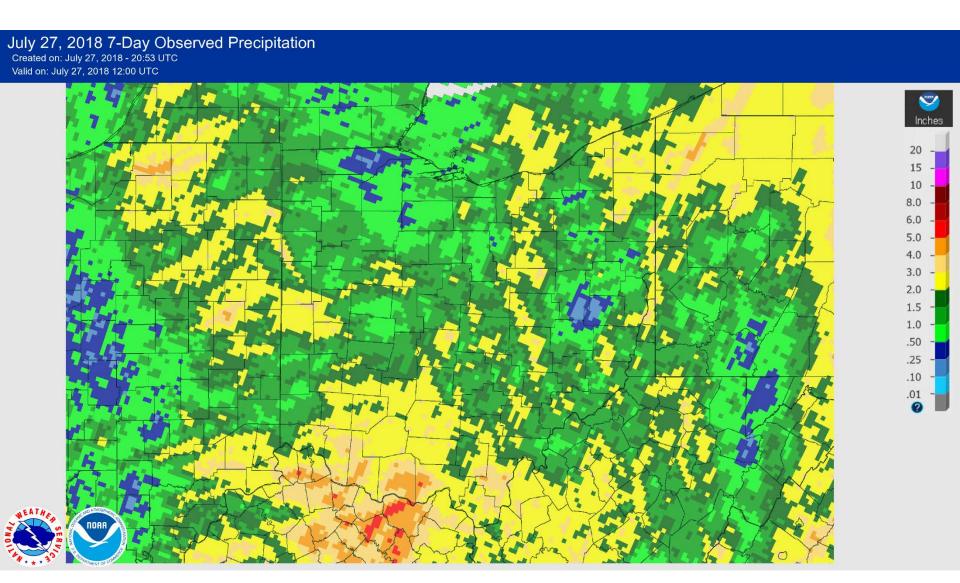
http://cocorahs.com/

July 27



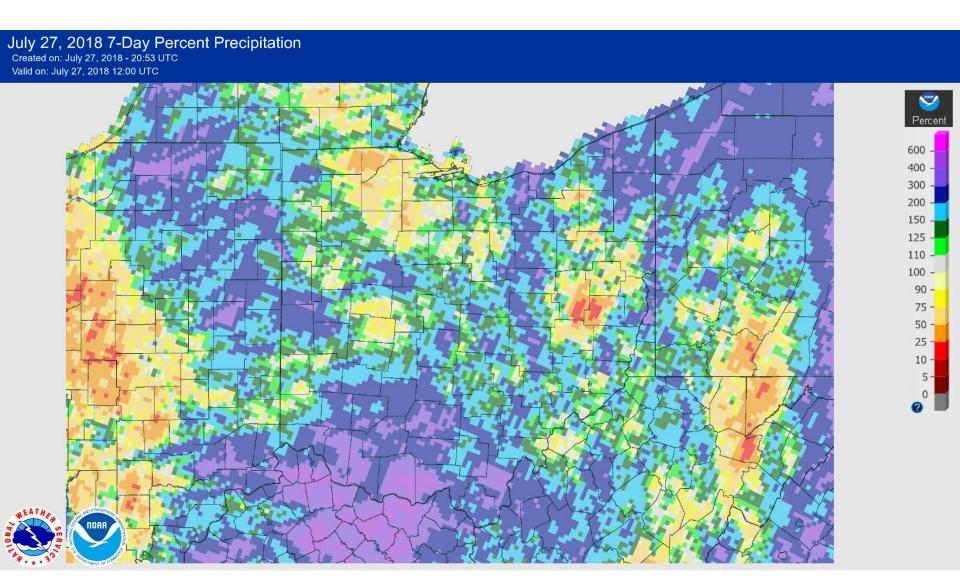


Previous 7-Day Precipitation: Total





Previous 7-Day Precipitation: Percent of Normal

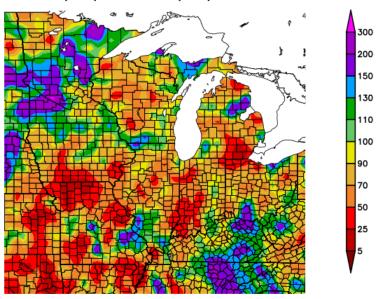




Precipitation Differences Compared to Average (1981-2010)

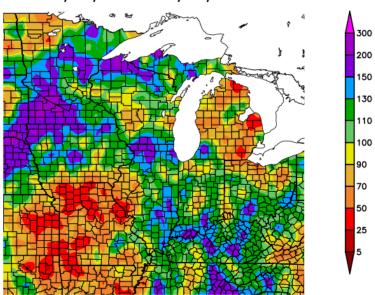
30-Day

Percent of Normal Precipitation (%) 6/27/2018 - 7/26/2018



60-Day

Percent of Normal Precipitation (%) 5/28/2018 - 7/26/2018



Generated 7/27/2018 at HPRCC using provisional data.

NOAA Regional Climate Centers Generated 7/27/2018 at HPRCC using provisional data.

NOAA Regional Climate Centers

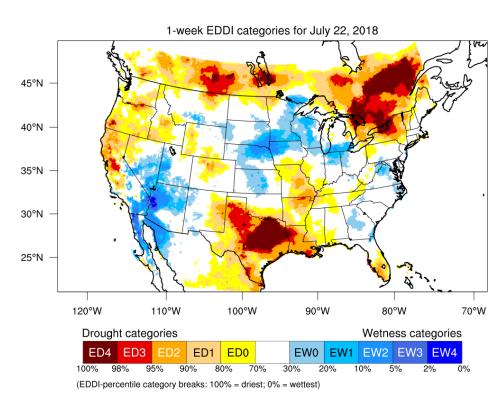




Evaporative Demand Drought Index

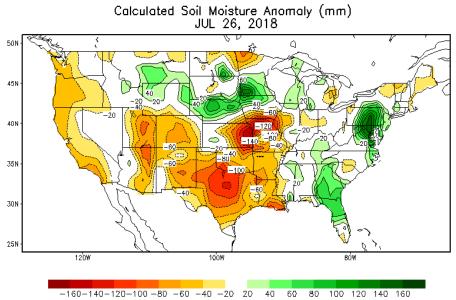
EDDI can offer early warning of agricultural drought, hydrologic drought, and fire-weather risk by providing near-real-time information on the emergence or persistence of anomalous evaporative demand in a region. A particular strength of EDDI is in capturing the precursor signals of water stress at weekly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

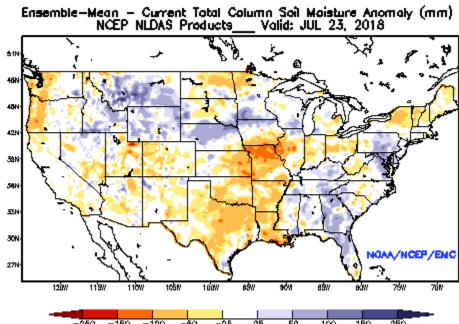
Image provided by the NOAA/ESRL Physical Sciences Division, Boulder, Colorado, from their web site at: https://www.esrl.noaa.gov/psd/.



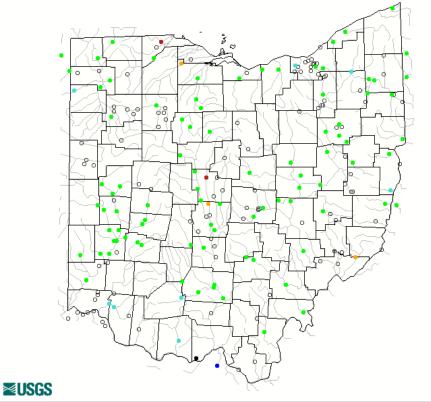
Generated by NOAA/ESRL/Physical Sciences Division

Soil Moisture





7-DAY

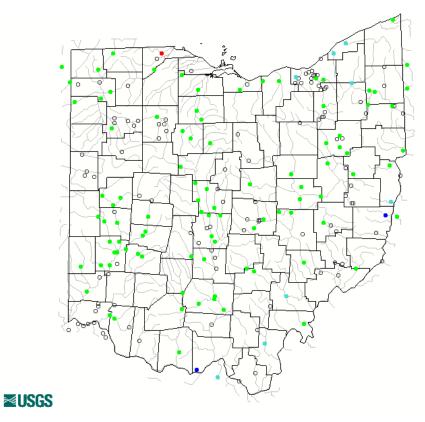


Explanation - Percentile classes									
•		•	•			•	0		
Low	<10	10-24	25-75	76-90	>90	High	Not-ranked		
	Much below normal	Below normal	Normal	Above normal	Much above normal				

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

USGS Streamflow







COLLEGE OF FOOD, AGRICULTURAL, AND ENVIRONMENTAL SCIENCES

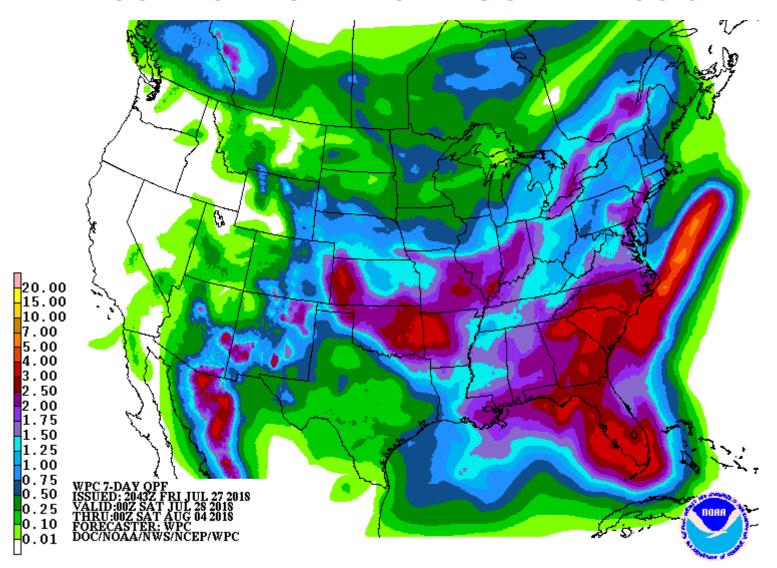
DEPARTMENT OF EXTENSION

BYRD POLAR & CLIMATE RESEARCH CENTER

DEPARTMENT OF GEOGRAPHY

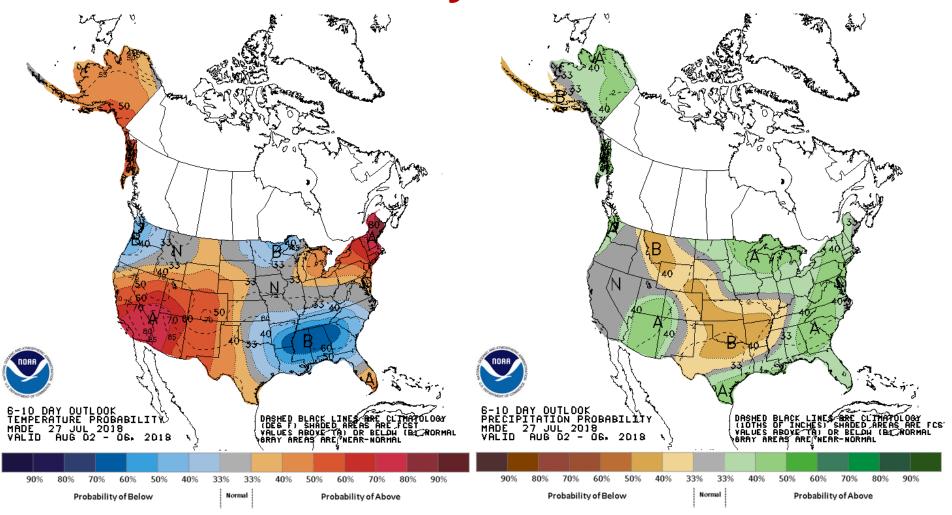


Weather for the Week Ahead





6-10 Day Outlook

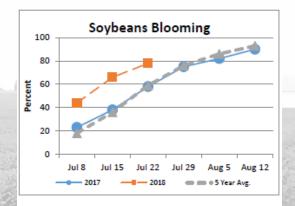


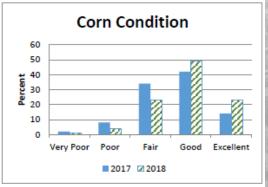
Highs: Low to mid 80s; Lows: Low to mid 60s; Precip: 0.75-1"

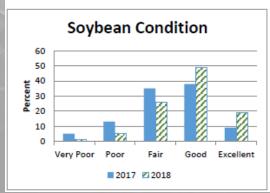


Ag Highlights

- 5.6 days suitable for work
- Lot of wheat, hay, oat harvesting
- Pastures showing stress but cooler temperatures mitigating crop stress







NASS: Cheryl Turner -

https://www.nass.usda.gov/Statistics_by_State/Ohio/Publications/Crop_Progress_&_Condition/2017/cw3017oh.pdf



Summary of Conditions



Drought Monitor: Abnormally dry conditions expanding across the northwest; Introduction of Moderate Drought (D1) across Fulton and Lucas Counties

30-Day and 60-Day: Above average temperatures; drying conditions north

The week ahead: Dry weekend; Rainfall returns by mid-week but normal temperatures

