Hydrologic and Climate Assessment

July 13, 2018

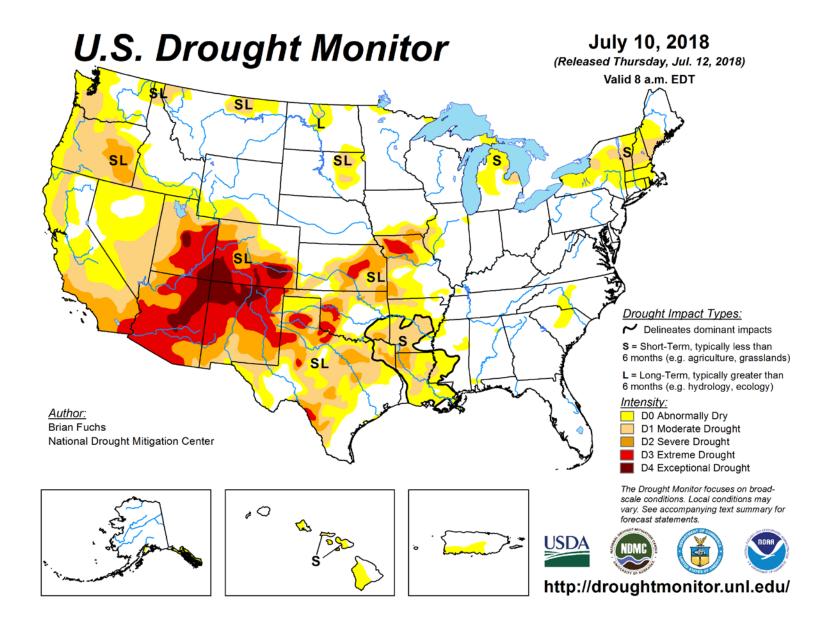




Aaron B. Wilson

STATE CLIMATE OFFICE OF OHIO (SCOO)

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





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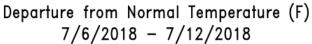
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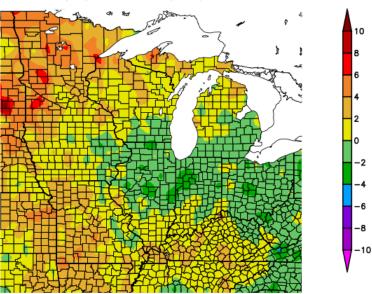
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Temperature Differences Compared to Average (1981-2010)

7-Day





Generated 7/13/2018 at HPRCC using provisional data.

NOAA Regional Climate Centers

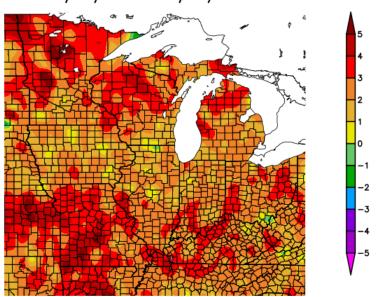




Temperature Differences Compared to Average (1981-2010)

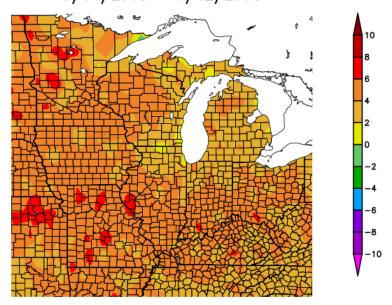
30-Day

Departure from Normal Temperature (F) 6/13/2018 - 7/12/2018



60-Day

Departure from Normal Temperature (F) 5/14/2018 - 7/12/2018



Generated 7/13/2018 at HPRCC using provisional data.

NOAA Regional Climate Centers Generated 7/13/2018 at HPRCC using provisional data.

NOAA Regional Climate Centers

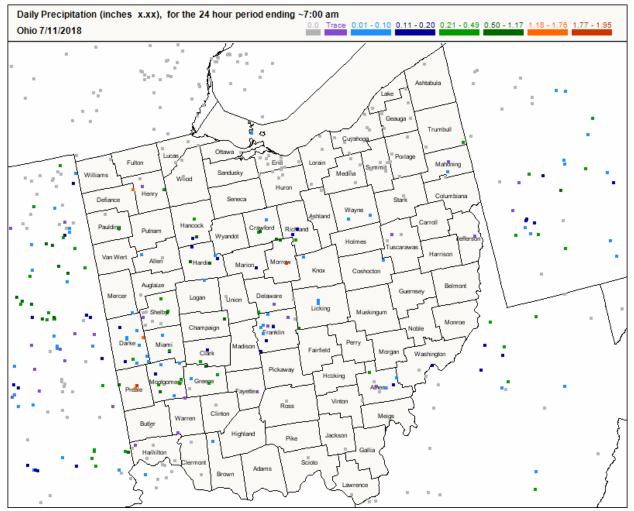




CoCoRaHS Observed Precipitation:

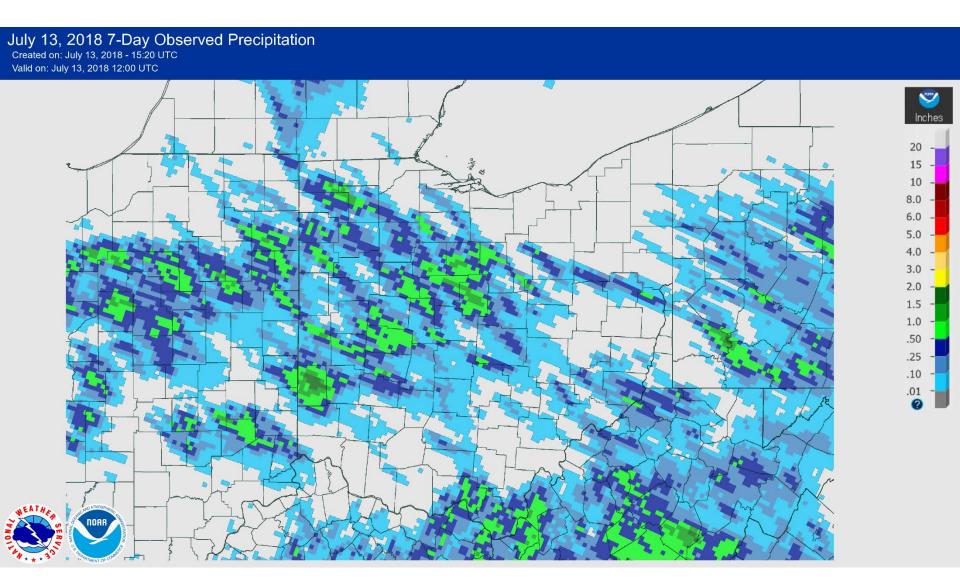
http://cocorahs.com/

July 11



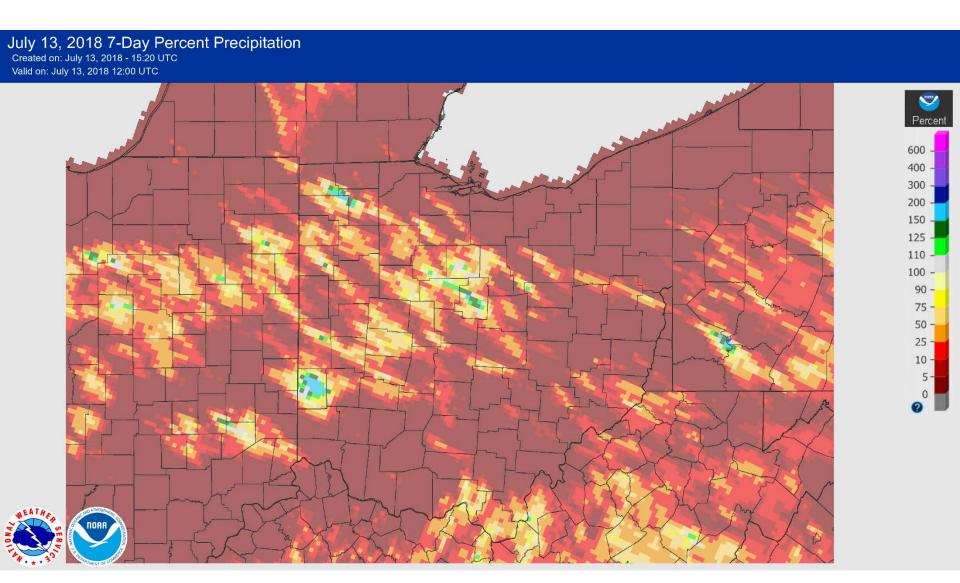


Previous 7-Day Precipitation: Total





Previous 7-Day Precipitation: Percent of Normal

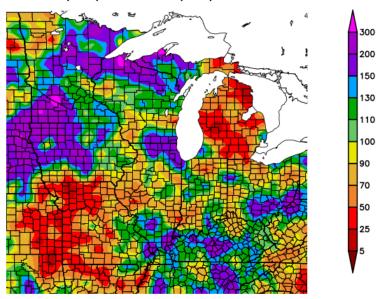




Precipitation Differences Compared to Average (1981-2010)

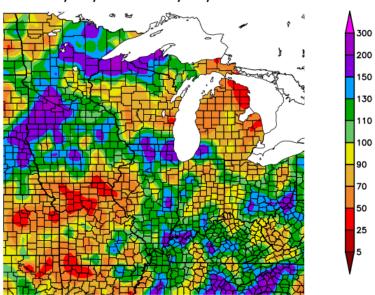
30-Day

Percent of Normal Precipitation (%) 6/13/2018 - 7/12/2018



60-Day

Percent of Normal Precipitation (%) 5/14/2018 - 7/12/2018



Generated 7/13/2018 at HPRCC using provisional data.

NOAA Regional Climate Centers Generated 7/13/2018 at HPRCC using provisional data.

NOAA Regional Climate Centers

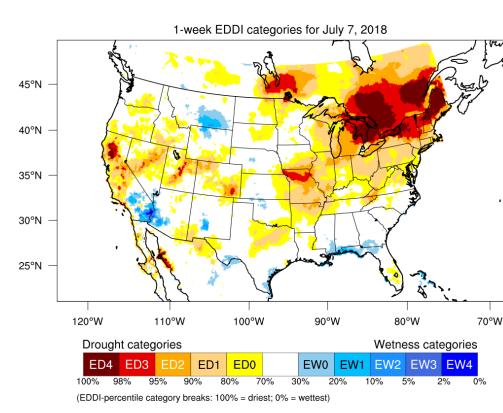




Evaporative Demand Drought Index

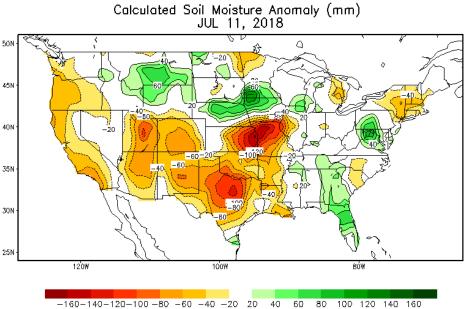
EDDI can offer early warning of agricultural drought, hydrologic drought, and fire-weather risk by providing near-real-time information on the emergence or persistence of anomalous evaporative demand in a region. A particular strength of EDDI is in capturing the precursor signals of water stress at weekly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

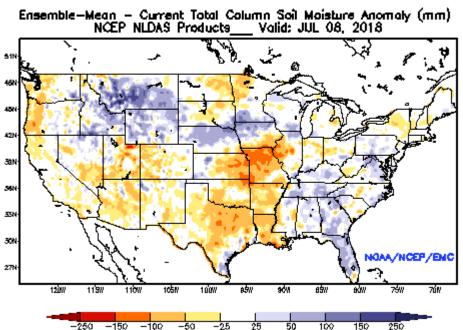
Image provided by the NOAA/ESRL Physical Sciences Division, Boulder, Colorado, from their web site at: https://www.esrl.noaa.gov/psd/.



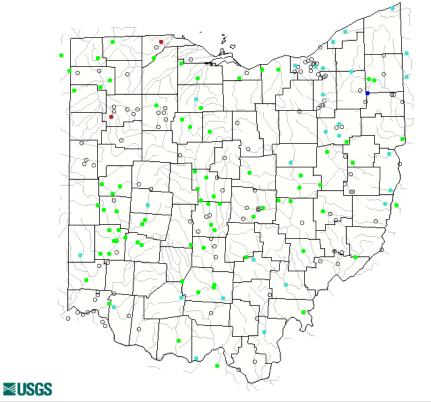
Generated by NOAA/ESRL/Physical Sciences Division

Soil Moisture





7-DAY

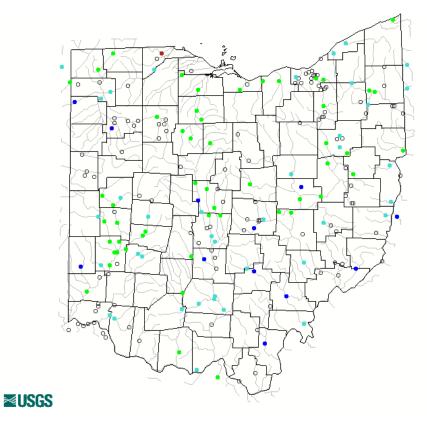


Explanation - Percentile classes							
		•	•			•	0
Low	<10	10-24	25-75	76-90	>90	High	Not-ranked
	Much below normal	Below normal	Normal	Above normal	Much above normal		

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

USGS Streamflow







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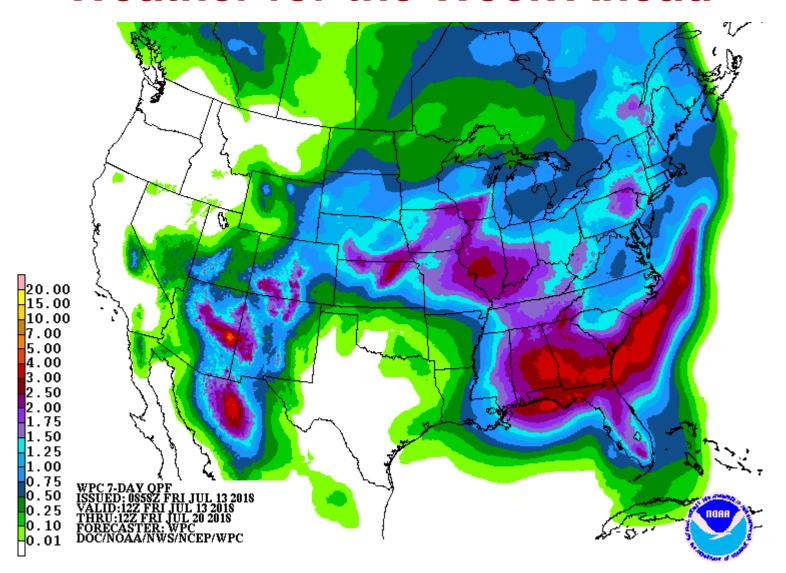
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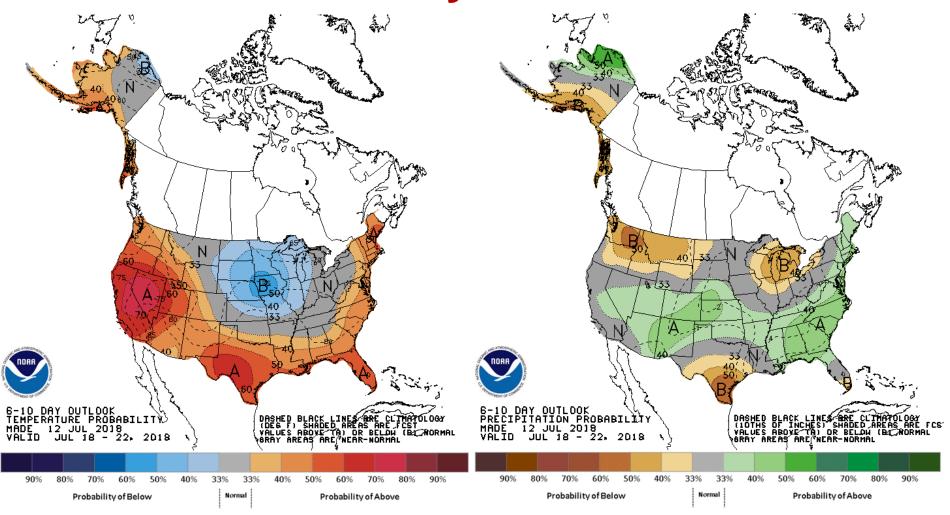


Weather for the Week Ahead





6-10 Day Outlook

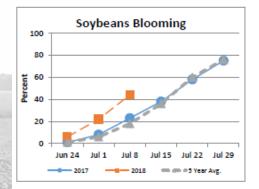


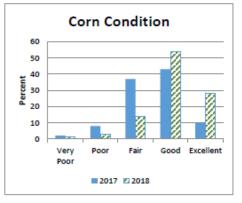
Highs: Low to mid 80s; Lows: Low to mid 60s; Precip: 0.75-1"

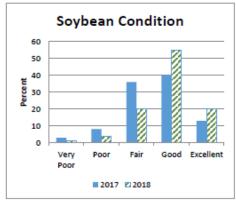


Ag Highlights

- 5.1 days suitable for work
- Heat pushed wheat maturation and harvest along
- Isolated rainfall creating variety of field conditions







NASS: Cheryl Turner –

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

Summary of Conditions



Drought Monitor: No Formal drought in Ohio

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

and west central Ohio

The week ahead: Increased opportunities for rainfall



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