Hydrologic and Climate Assessment

July 6, 2018

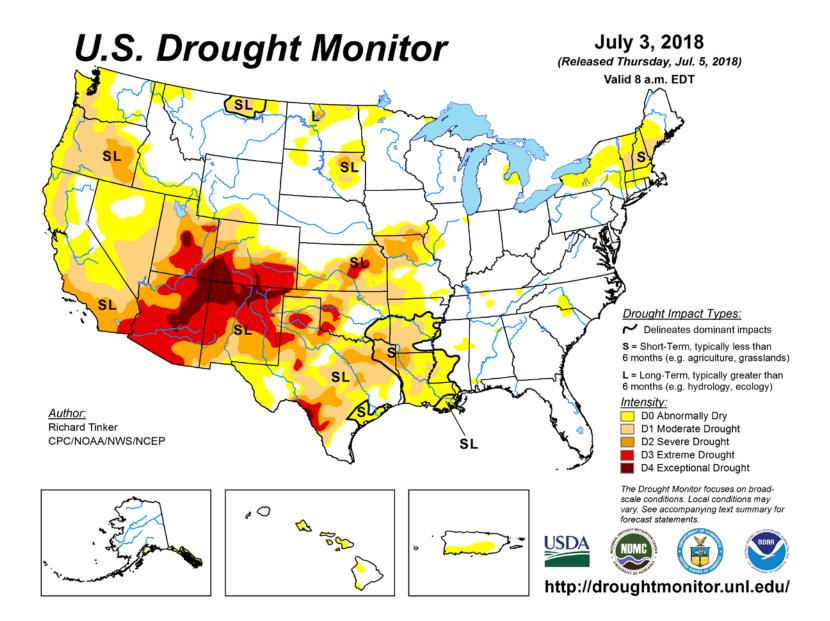




Aaron B. Wilson

STATE CLIMATE OFFICE OF OHIO (SCOO)

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





Temperature Differences Compared to Average (1981-2010)

Average Minimum Temperature (°F) June 30, 2018 to July 06, 2018

Stations from the following networks used: WBAN, COOP, FAA, GHCN, ThreadEx, CoCoRaHS, WMO, ICAO, NWSLI, Midwestern Egoinal Climate Center cli-MATE: MRCC Application Tools Environment Generated at: 7/62/218 94-48-58 AM CDT

Average Maximum Temperature (°F) June 30, 2018 to July 06, 2018

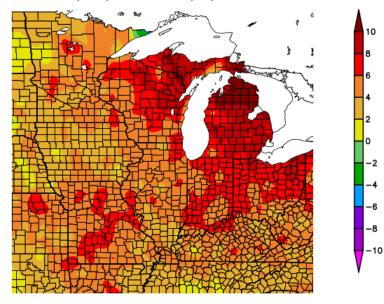
Tolers Calles Ca

75 80 85 90 95 100
Stations from the following networks used: WBAN, COOP, FAA, GHCN, ThreadEx, CoCcRaHS, WMO, ICAO, NWSLI, Midwestern Rejoinal Climate Center

CoCoRaHS, WMO, ICAO, NWSLI, Midwestern Regional Climate Center cli-MATE: MRCC Application Tools Environment Generated at: 7/6/2018 9:45:20 AM CDT

7-Day

Departure from Normal Temperature (F) 6/29/2018 - 7/5/2018



Generated 7/6/2018 at HPRCC using provisional data.

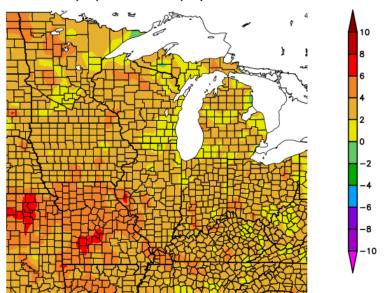
NOAA Regional Climate Centers



Temperature Differences Compared to Average (1981-2010)

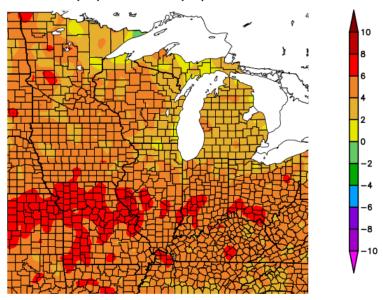
30-Day

Departure from Normal Temperature (F) 6/6/2018 - 7/5/2018



60-Day

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



Generated 7/6/2018 at HPRCC using provisional data.

NOAA Regional Climate Centers Generated 7/6/2018 at HPRCC using provisional data.

NOAA Regional Climate Centers

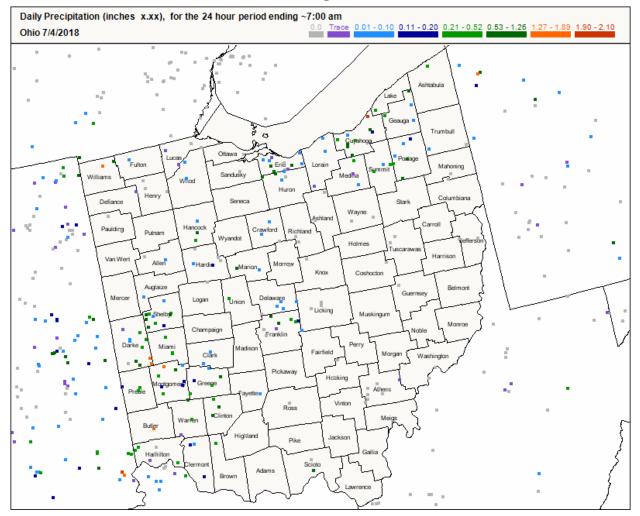




CoCoRaHS Observed Precipitation:

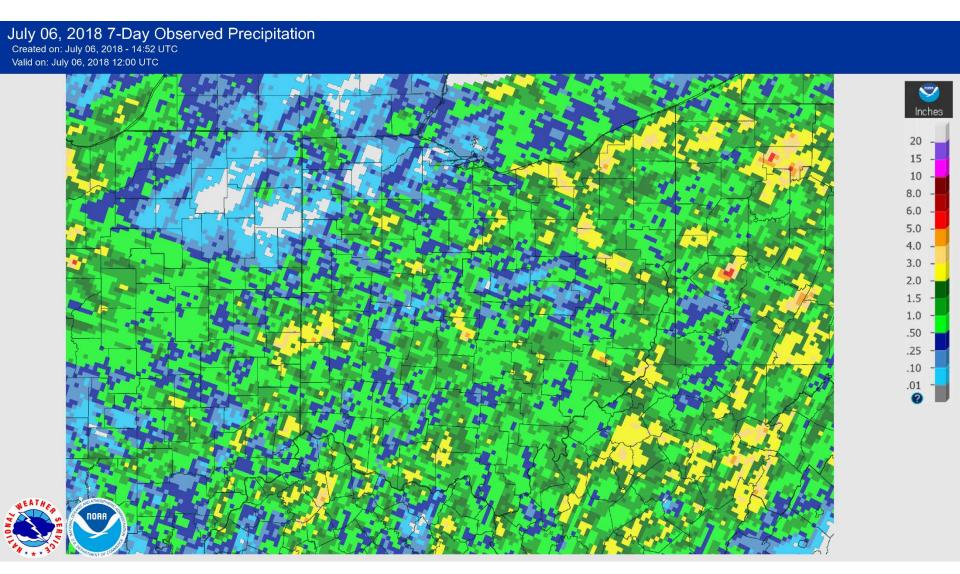
http://cocorahs.com/

July 4



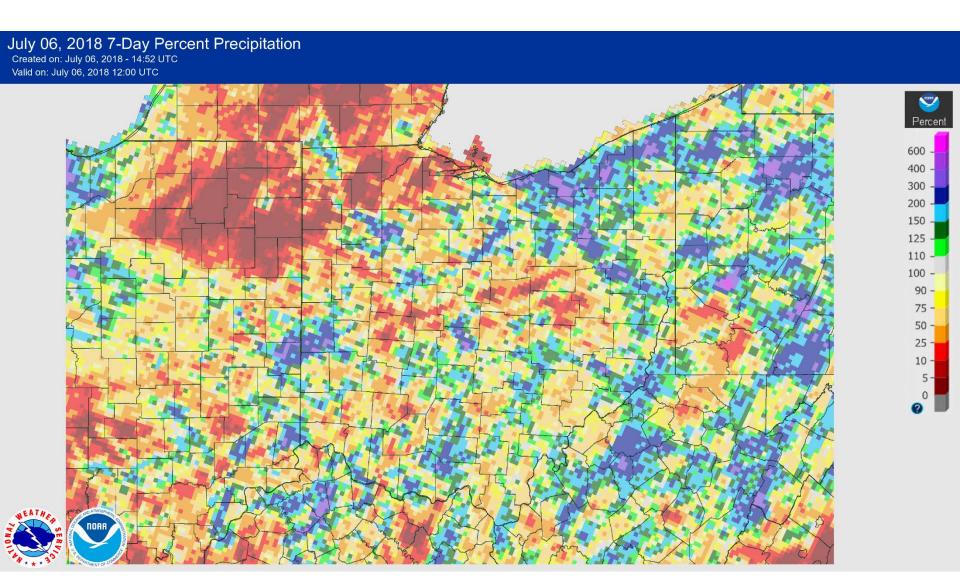


Previous 7-Day Precipitation: Total





Previous 7-Day Precipitation: Percent of Normal

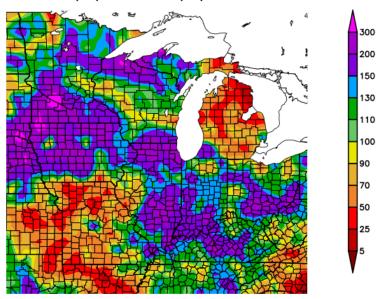




Precipitation Differences Compared to Average (1981-2010)

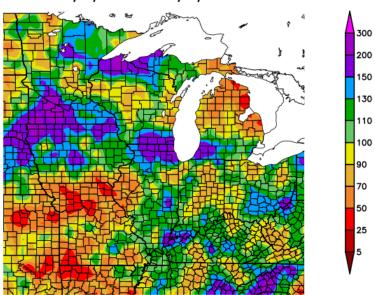
30-Day

Percent of Normal Precipitation (%) 6/6/2018 - 7/5/2018



60-Day

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



Generated 7/6/2018 at HPRCC using provisional data.

NOAA Regional Climate Centers Generated 7/6/2018 at HPRCC using provisional data.

NOAA Regional Climate Centers

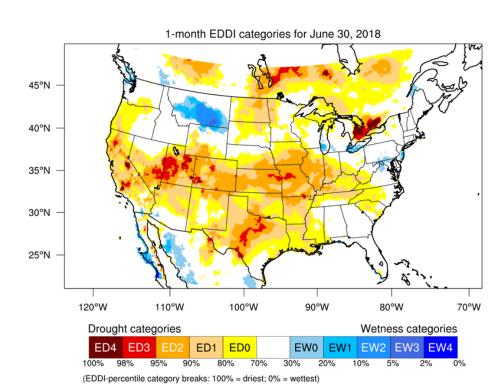




Evaporative Demand Drought Index

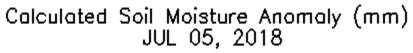
EDDI can offer early warning of agricultural drought, hydrologic drought, and fire-weather risk by providing near-real-time information on the emergence or persistence of anomalous evaporative demand in a region. A particular strength of EDDI is in capturing the precursor signals of water stress at weekly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

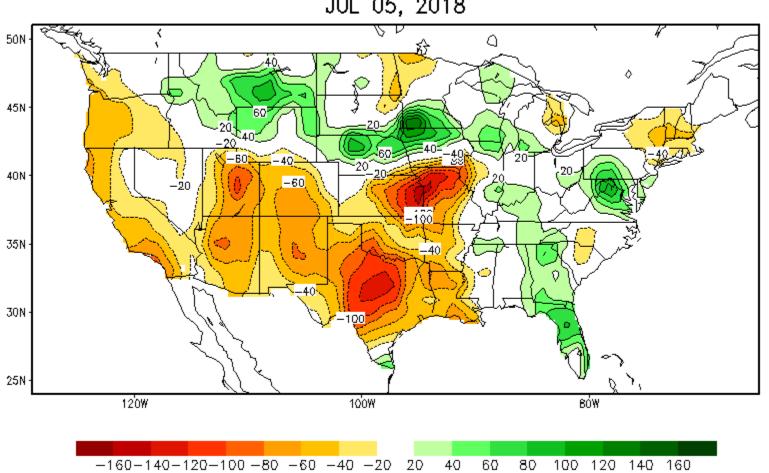
Image provided by the NOAA/ESRL Physical Sciences Division, Boulder, Colorado, from their web site at: https://www.esrl.noaa.gov/psd/.



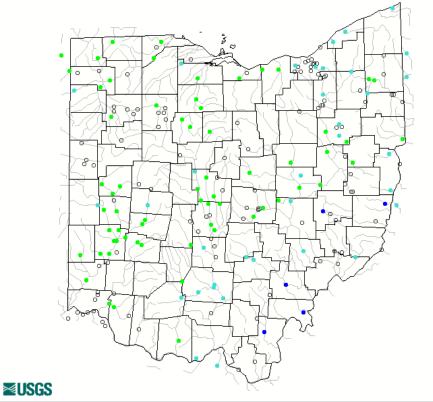
Generated by NOAA/ESRL/Physical Sciences Division

Soil Moisture





7-DAY

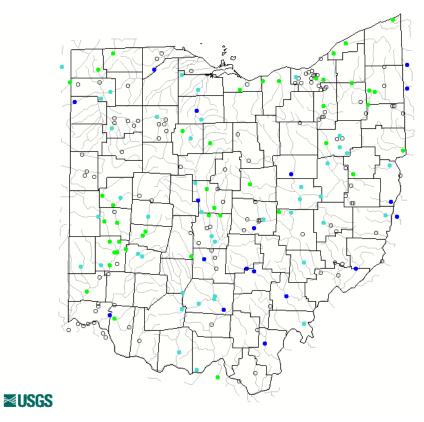


Explanation - Percentile classes							
•		•	•			•	0
Low	<10	10-24	25-75	76-90	>90	High	Not-ranked
	Much below normal	Below normal	Normal	Above normal	Much above normal		

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

USGS Streamflow

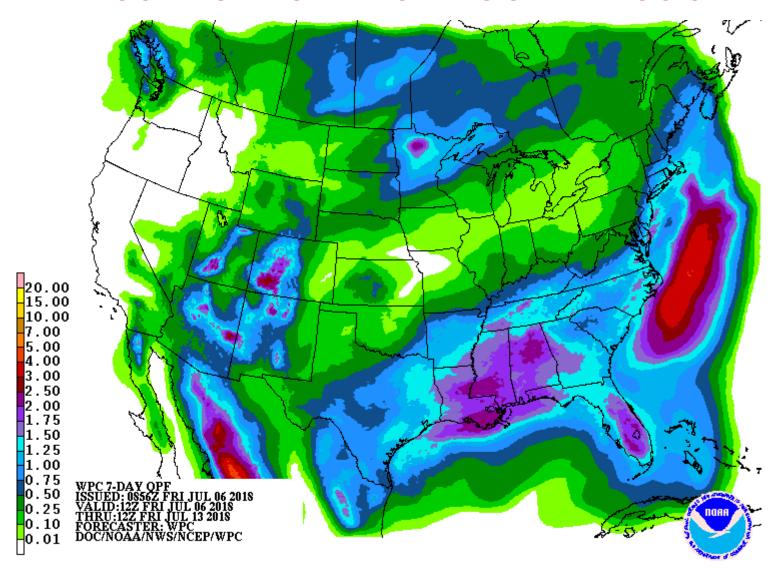








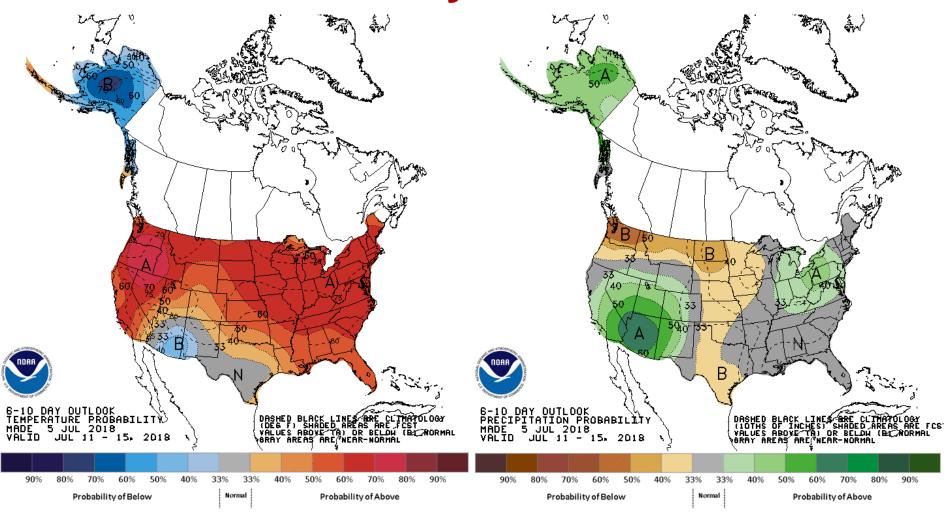
Weather for the Week Ahead





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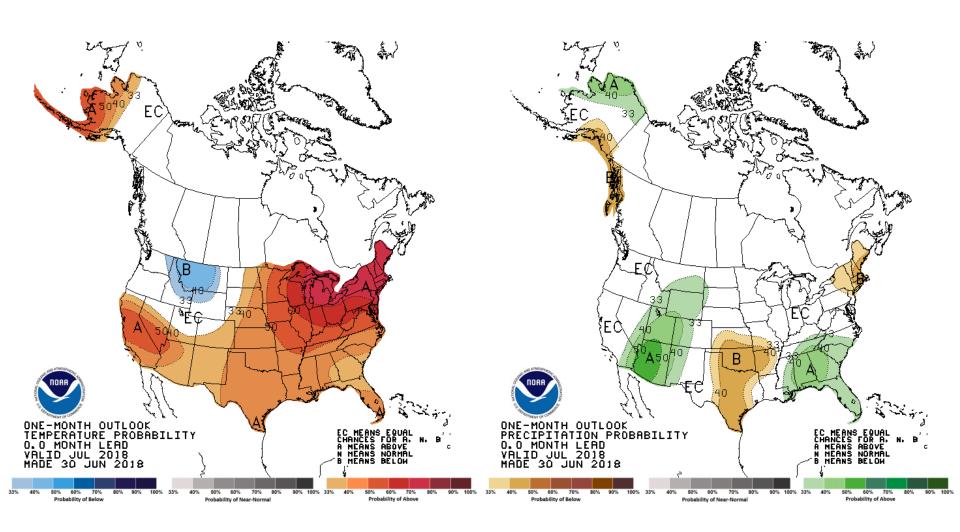
6-10 Day Outlook



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



July Outlook





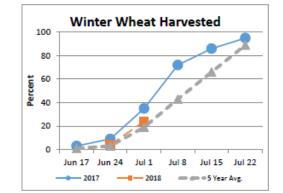
STATE CLIMATE OFFICE OF OHIO (SCOO)

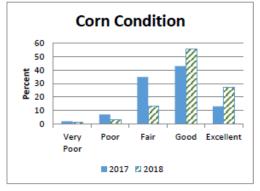
Ag Highlights

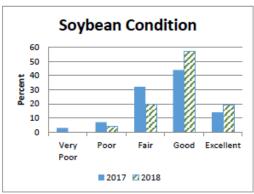
- 4.2 days suitable for work
- Strong haymaking and straw baling progress
- Some isolate standing water causing a few crop issues
- Livestock stressed from heat



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









Summary of Conditions



Photo: Jason Hartschuh – Crawford County Extension

Drought Monitor: No Formal drought in Ohio

30-Day and 60-Day: Hot but decent precipitation; drying conditions across the north

The week ahead: A respite from the heat but generally dry conditions

