Hydrologic and Climate Assessment

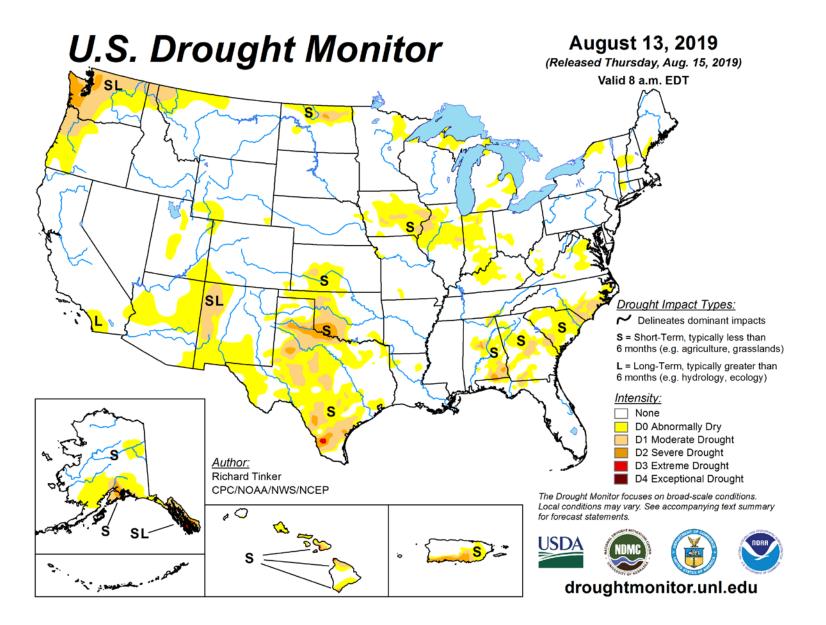
August 20, 2019





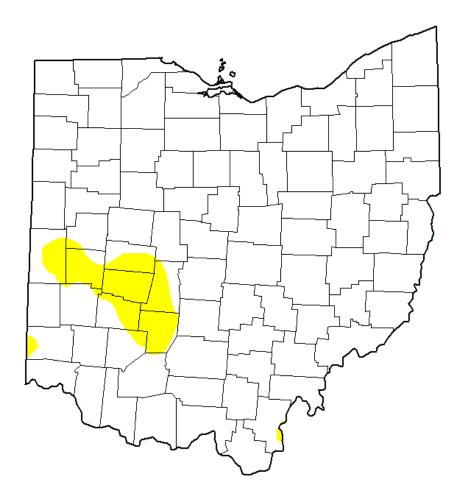


BYRD POLAR & CLIMATE RESEARCH CENTER
DEPARTMENT OF GEOGRAPHY





U.S. Drought Monitor Ohio



August 13, 2019

(Released Thursday, Aug. 15, 2019) Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	94.33	5.67	0.00	0.00	0.00	0.00
Last Week 08-06-2019	90.10	9.90	0.00	0.00	0.00	0.00
3 Month's Ago 05-14-2019	100.00	0.00	0.00	0.00	0.00	0.00
Start of Calendar Year 01-01-2019	100.00	0.00	0.00	0.00	0.00	0.00
Start of Water Year 09-25-2018	100.00	0.00	0.00	0.00	0.00	0.00
One Year Ago 08-14-2018	87.73	12.27	1.69	0.00	0.00	0.00

Intensity:

None

D2 Severe Drought

D0 Abnormally Dry
D1 Moderate 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.

Author:

Richard Tinker
CPC/NOAA/NWS/NCEP









droughtmonitor.unl.edu

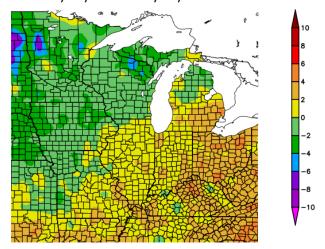
STATE CLIMATE OFFICE OF OHIO (SCOO)



Temperature Differences Compared to Average (1981-2010)

7-Day

Departure from Normal Temperature (F) 8/13/2019 - 8/19/2019



Generated 8/20/2019 at HPRCC using provisional data.

NOAA Regional Climate Centers



60-Day STATE CLIMATE OFFICE OF OHIO (SCOO) COLLEGE OF FOOD, AGRICULTURAL, AND ENVIRONMENTAL SCIENCES DEPARTMENT OF EXTENSION **BYRD POLAR & CLIMATE RESEARCH CENTER DEPARTMENT OF GEOGRAPHY**

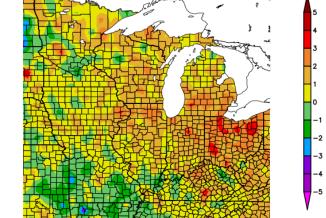
30-Day

Generated 8/20/2019 at HPRCC using provisional data

NOAA Regional Climate Centers

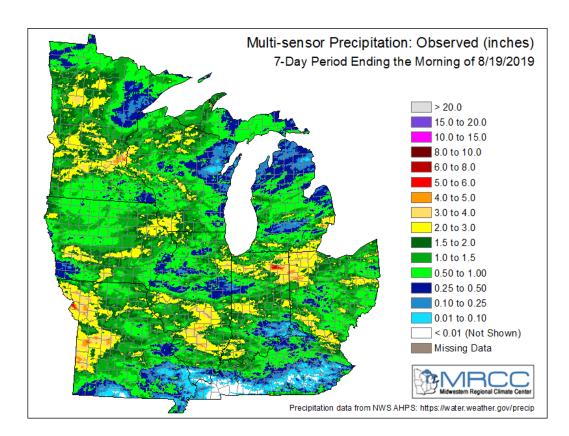
Departure from Normal Temperature (F) 6/21/2019 - 8/19/2019

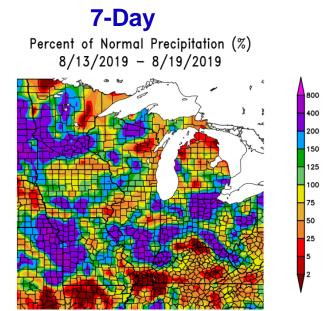
Departure from Normal Temperature (F) 7/21/2019 - 8/19/2019





This Week's Precipitation





Generated 8/20/2019 at HPRCC using provisional data.

NOAA Regional Climate Centers



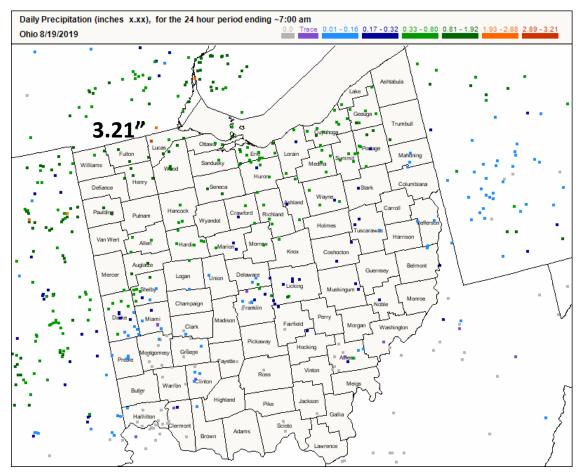
STATE CLIMATE OFFICE OF OHIO (SCOO)



CoCoRaHS

Since June 1

Cheviot: 48.32" since Jan 1



CoCoRaHS Name	Total Precip (inches)			
Canton 5.8 WNW	20.59			
Mogadore 4.7 SE	20.56			
Pataskala 3.2 E	20.38			
Coshocton 5.5 WSW	20.11			
Shelby 0.6 NNE	19.82			
Parma 1.8 SE	19.45			
Streetsboro 2.1 SSW	19.35			
Lexington 0.9 NW	19.06			
Kent 3.6 NE	18.87			
Newton Falls 0.6 N	18.55			

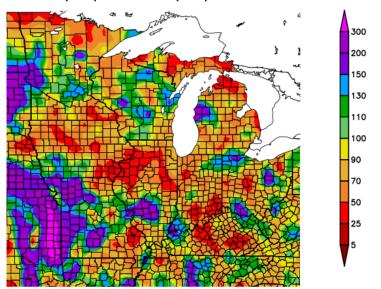
https://cocorahs.org/



Precipitation Differences Compared to Average (1981-2010)

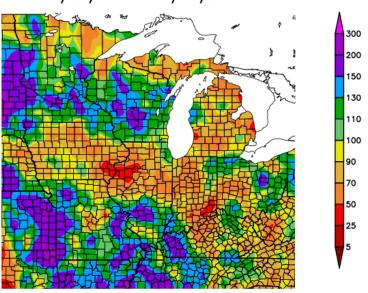
30-Day

Percent of Normal Precipitation (%) 7/21/2019 - 8/19/2019



60-Day

Percent of Normal Precipitation (%) 6/21/2019 - 8/19/2019



Generated 8/20/2019 at HPRCC using provisional data.

NOAA Regional Climate Centers

Generated 8/20/2019 at HPRCC using provisional data.

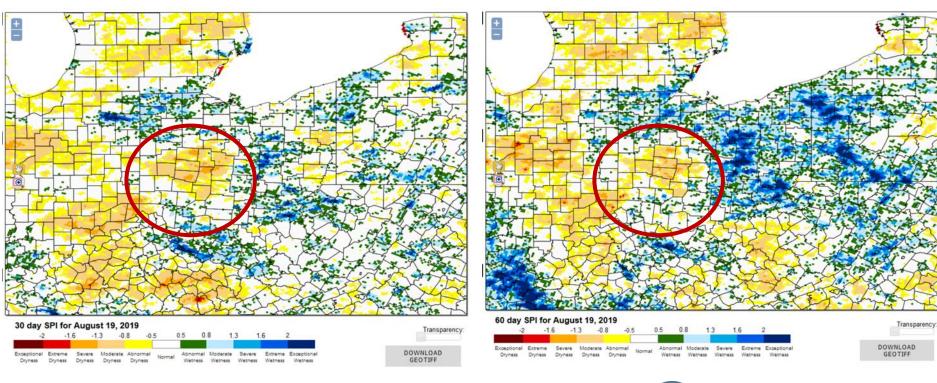
NOAA Regional Climate Centers





Standard Precipitation Index

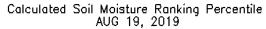


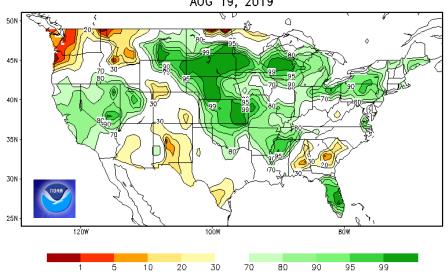




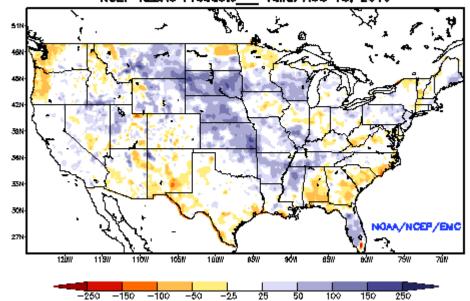


Soil Moisture





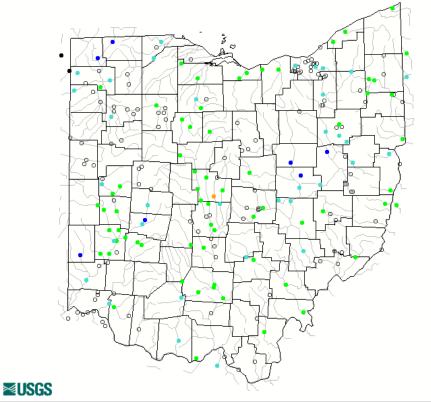
Ensemble-Mean - Current Total Column Soil Moisture Anomaly (mm) NCEP NLDAS Products____ Valid: AUG 15, 2019







7-DAY

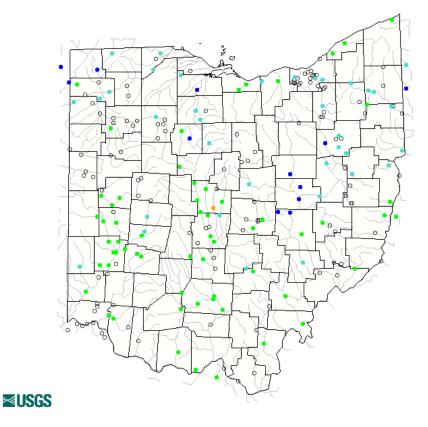


Explanation - Percentile classes									
		•	•			•	0		
Low	<10	10-24	25-75	76-90	>90	High	Not-ranked		
	Much below normal	Below normal	Normal	Above normal	Much above normal				

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

USGS Streamflow

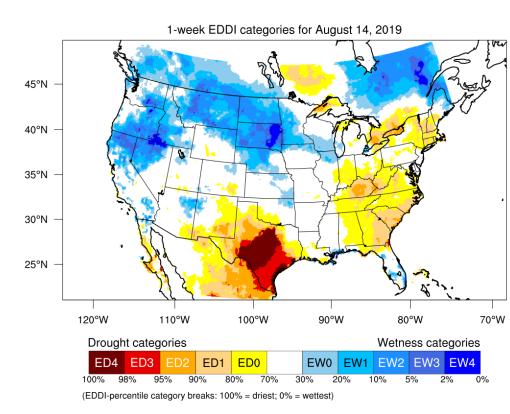






Evaporative Demand Drought Index

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.

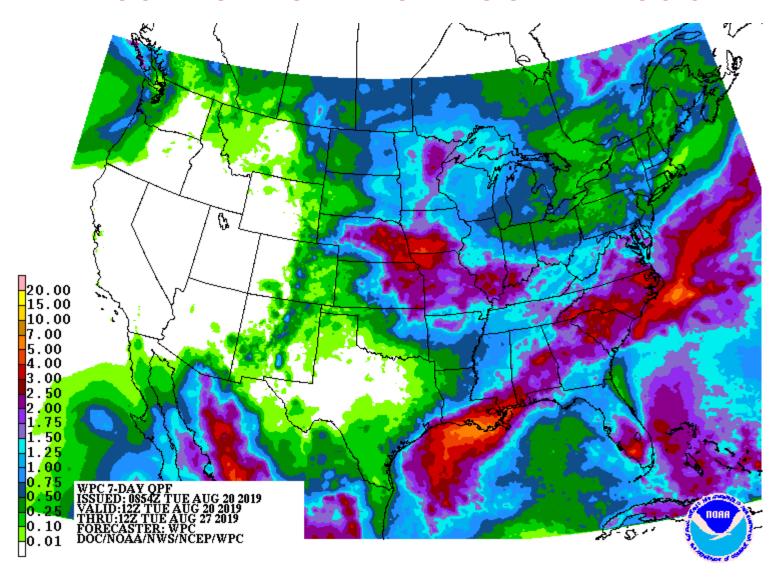


Generated by NOAA/ESRL/Physical Sciences Division

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

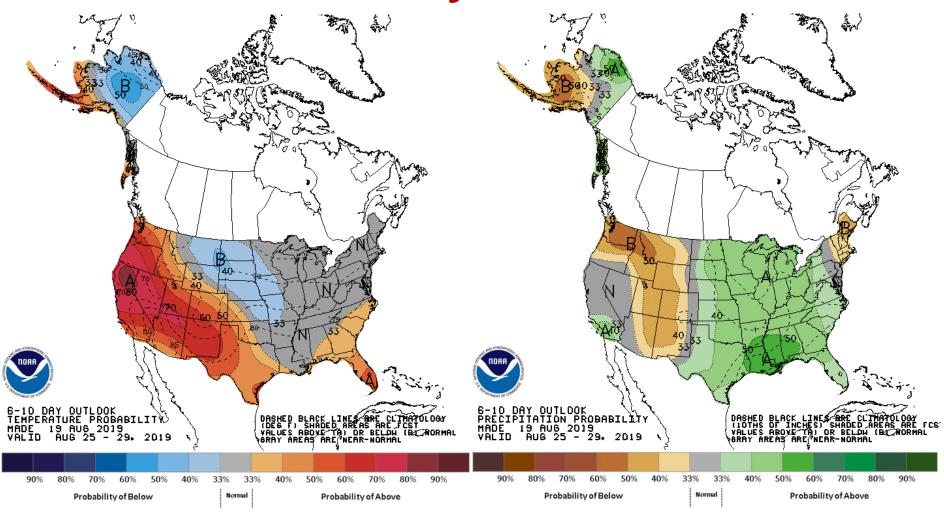


Weather for the Week Ahead





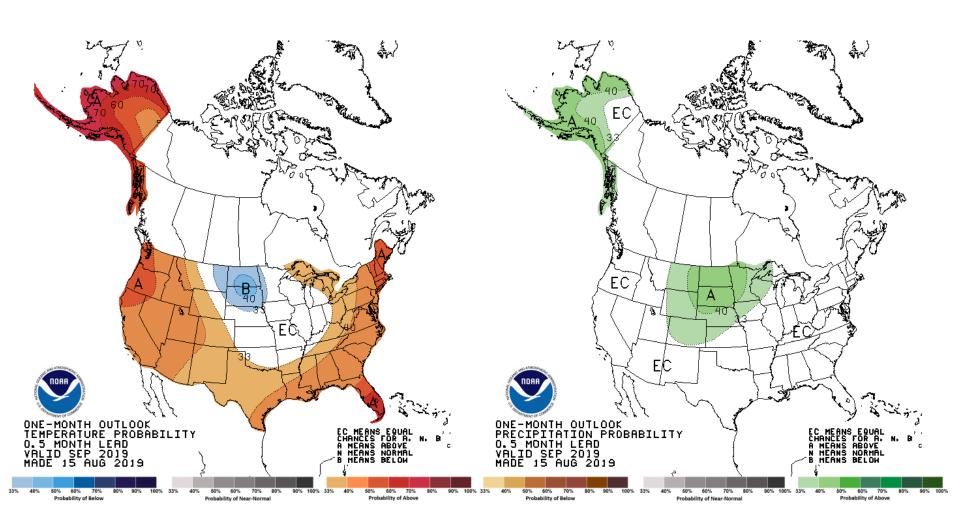
6-10 Day Outlook



Highs: 80-85°F; Lows: 60-65°F; Precip: 0.75-1.0" (per week)

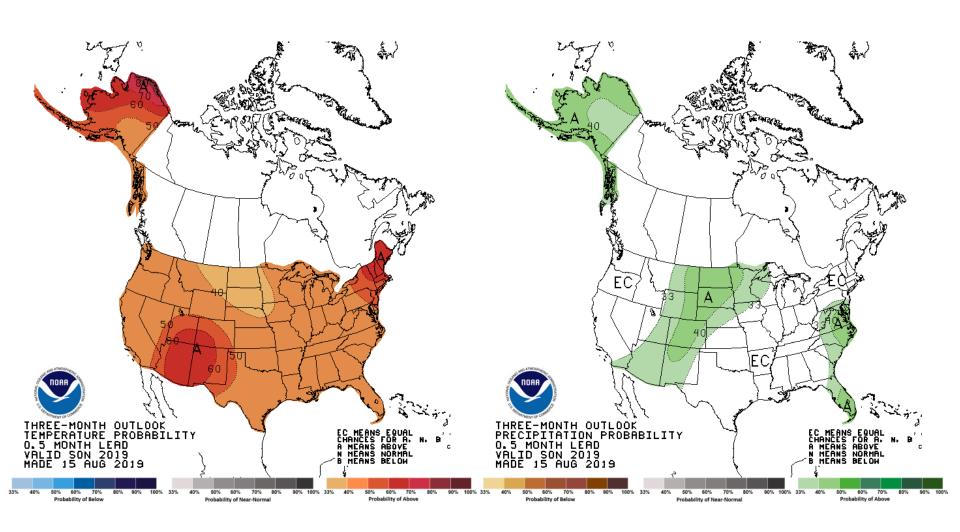


September 2019 Outlook





Sep – Nov 2019 Outlook



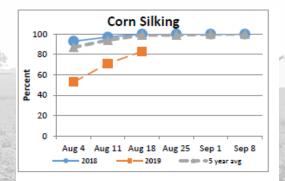


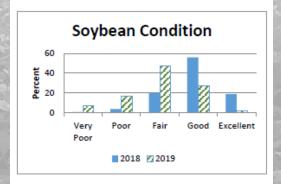
Ag Highlights

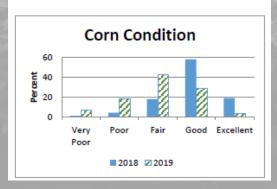
- 5.8 days suitable for fieldwork for the week ending August 18
- Scattered rains improved some areas; some areas stayed dry
- Crops deteriorating; areas without water not filling grain well
- Busy with field work (herbicides and fungicides, hauling manure, harvesting hay, tilling fields, and planting cover crops)

NASS: Cheryl Turner –

https://www.nass.usda.gov/Statistics_by_State/Ohio/Publications/Crop_Progress_&_Condition/2019/cw1719oh.pdf







Summary of Conditions



Drought Monitor: Abnormally dry across west/SW

Climate Recap: Rain was scattered and some areas remained fairly dry

The week ahead: Scattered storms possible; no major systems likely; wetter across south



Partners and Additional Information

- SCOO's Website: https://climate.osu.edu
- NOAA's National Climatic Data Center: www.ncdc.noaa.gov
 - Monthly climate reports (U.S. & Global): www.ncdc.noaa.gov/sotc/
- NOAA's Climate Prediction Center: www.cpc.ncep.noaa.gov
- USDA Midwest Climate Hub: https://www.climatehubs.oce.usda.gov/hubs/midwest
- Climate Portal: www.climate.gov
- U.S. Drought Portal: www.drought.gov
- National Drought Mitigation Center: https://drought.unl.edu/
- Midwest Regional Climate Center: https://mrcc.isws.illinois.edu
- Community Collaborative Rain Snow Hail Network (CoCoRaHS): https://cocorahs.org
- Song: "Lazy River Rag" by Dan Lebowitz