

Hydrologic and Climate Assessment

May 14, 2020



Photo Credit: Kat Bledsoe

Aaron B. Wilson

STATE CLIMATE OFFICE OF OHIO (SCOO)

DEPARTMENT OF EXTENSION - CFAES

BYRD POLAR & CLIMATE RESEARCH CENTER

DEPARTMENT OF GEOGRAPHY



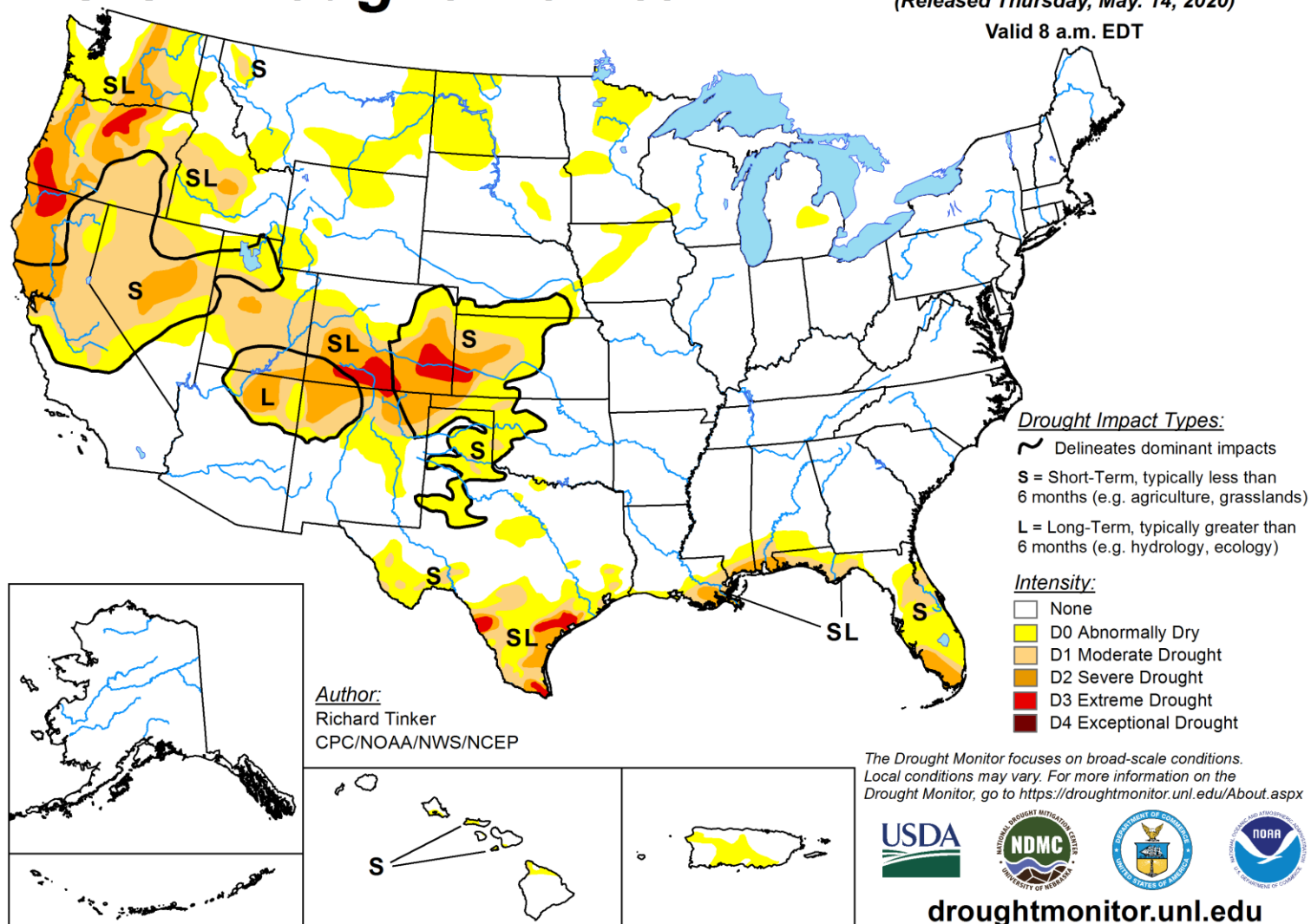
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U.S. Drought Monitor

May 12, 2020

(Released Thursday, May. 14, 2020)

Valid 8 a.m. EDT



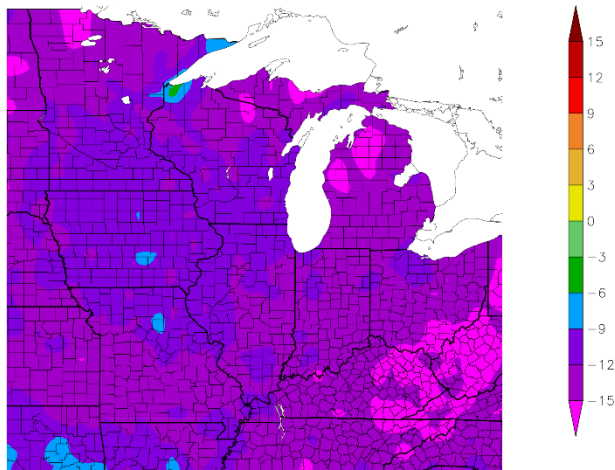
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Temperature Differences Compared to Average (1981-2010)

7-Day

Departure from Normal Temperature (F)
5/7/2020 – 5/13/2020

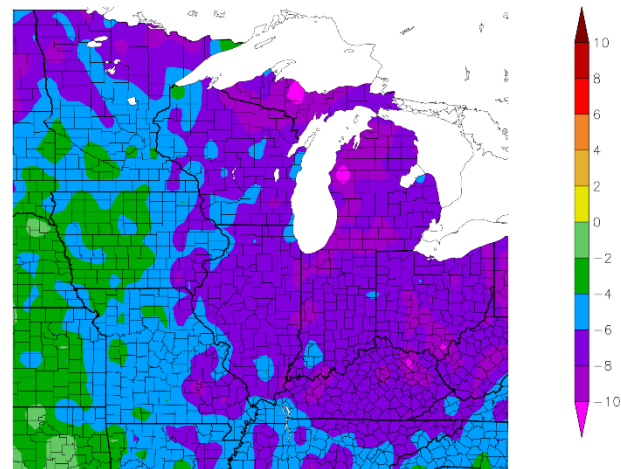


Generated 5/14/2020 at HPRCC using provisional data.

NOAA Regional Climate Centers

30-Day

Departure from Normal Temperature (F)
4/14/2020 – 5/13/2020

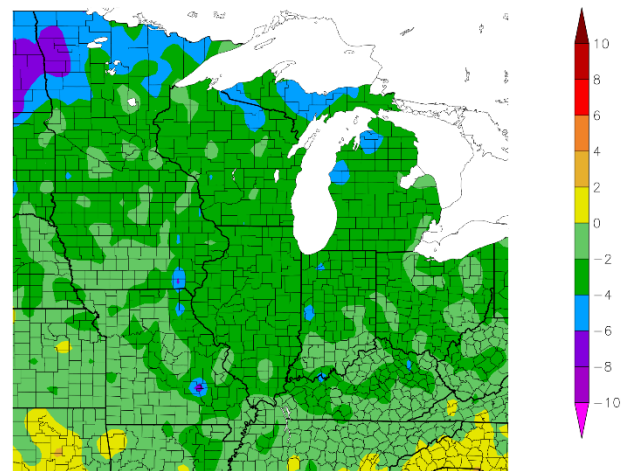


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NOAA Regional Climate Centers

60-Day

Departure from Normal Temperature (F)
3/15/2020 – 5/13/2020



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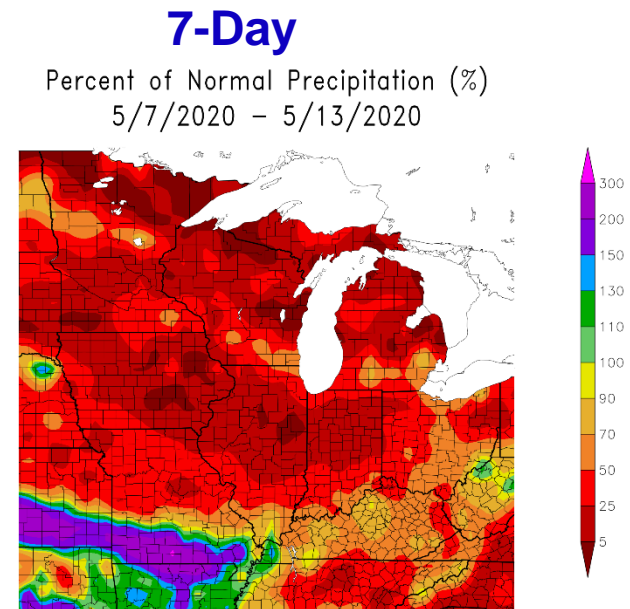
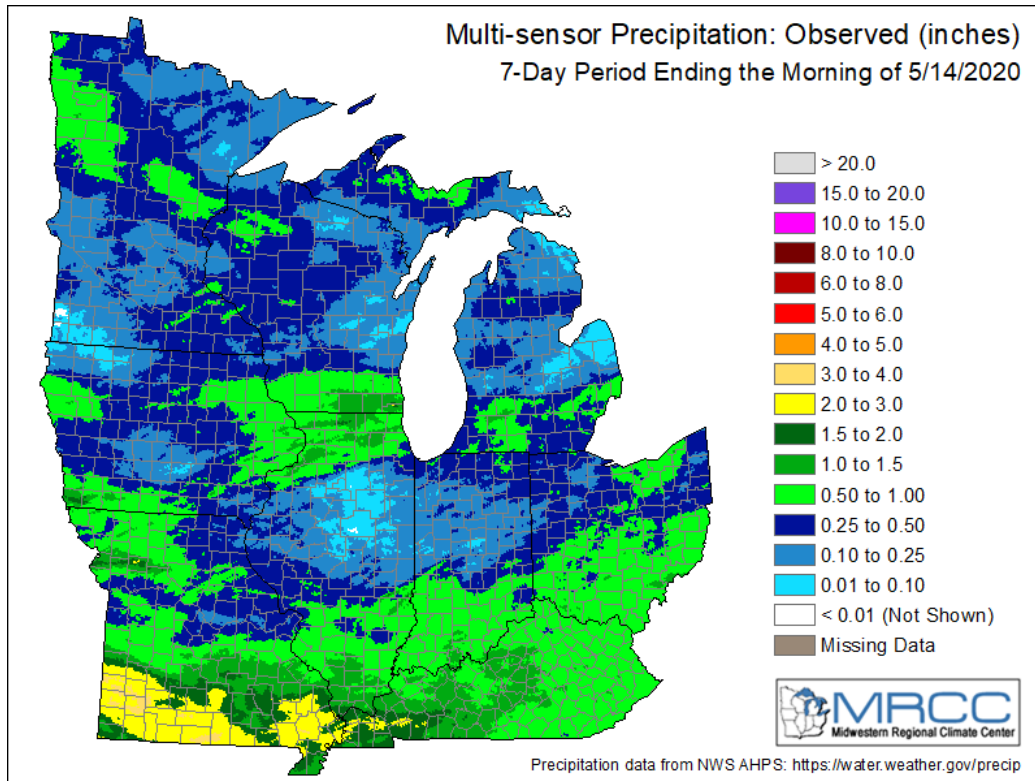
Drought.gov
U.S. Drought Portal



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This Week's Precipitation



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NOAA Regional Climate Centers

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Drought.gov
U.S. Drought Portal

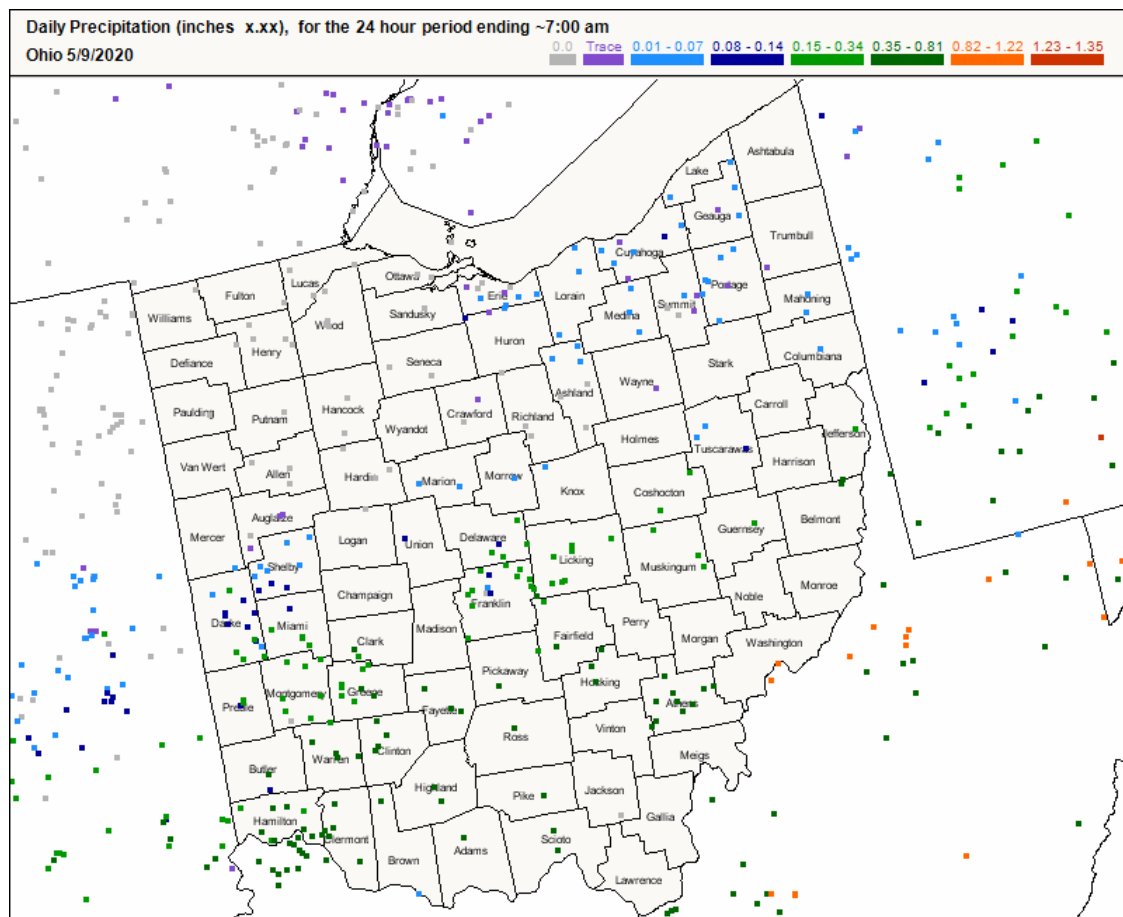


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CoCoRaHS

Top 10 Wettest: Apr-present



<https://cocorahs.org/>

CoCoRaHS Name	Total Precip (inches)
Albany 2.1 SSE	8.31
Albany 4.5 WNW	7.59
Athens 7.0 WNW	7.15
Mount Pleasant 2.9 SW	7.10
Albany 0.6 NW	7.03
Rockbridge 4.7 SSW	6.97
Lucasville 0.9 ENE	6.95
Hillsboro 0.8 SSW	6.94
Steubenville 2.0 WNW	6.86
New Concord 5.2 SSW	6.83



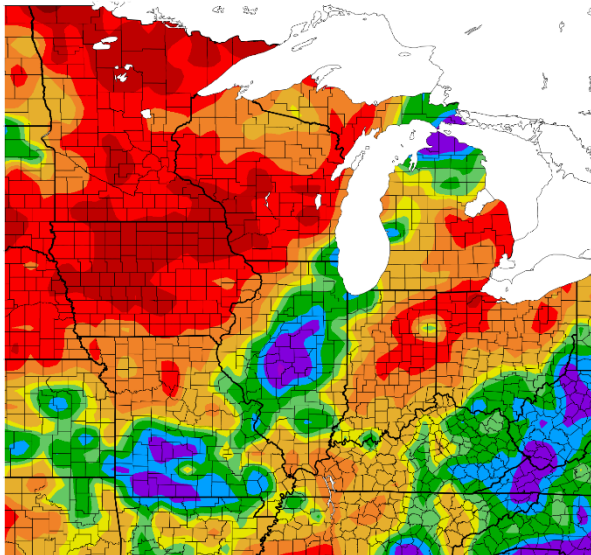
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Precipitation Differences Compared to Average (1981-2010)

30-Day

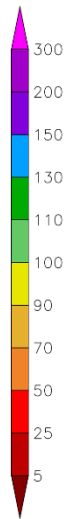
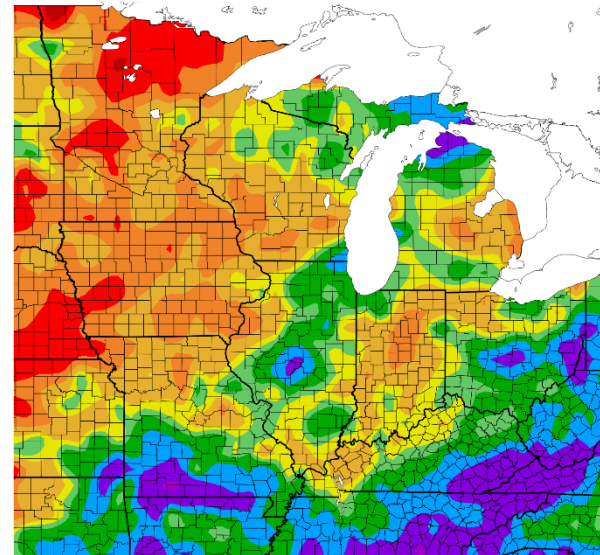
Percent of Normal Precipitation (%)
4/14/2020 – 5/13/2020



NOAA Regional Climate Centers

60-Day

Percent of Normal Precipitation (%)
3/15/2020 – 5/13/2020



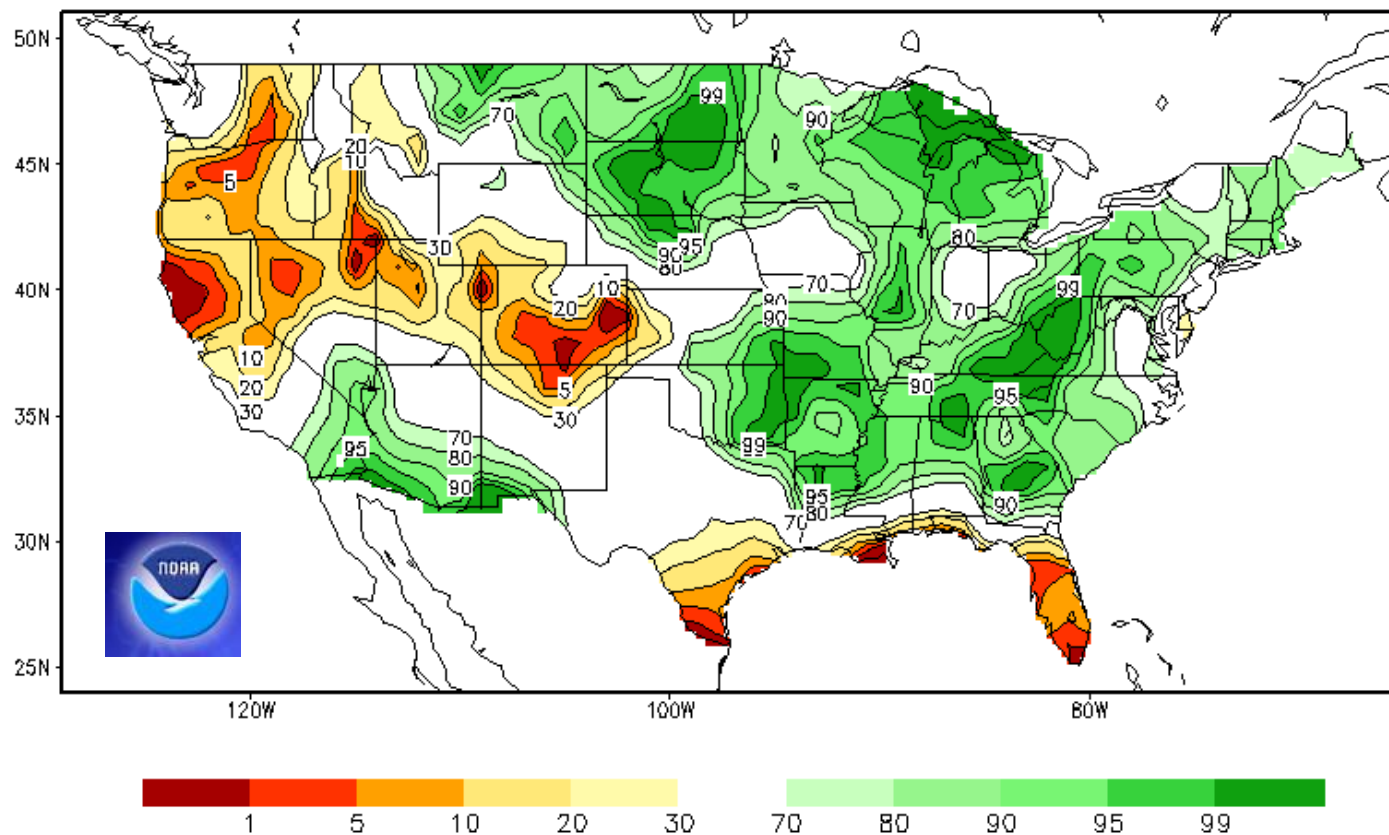
NOAA Regional Climate Centers

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Soil Moisture

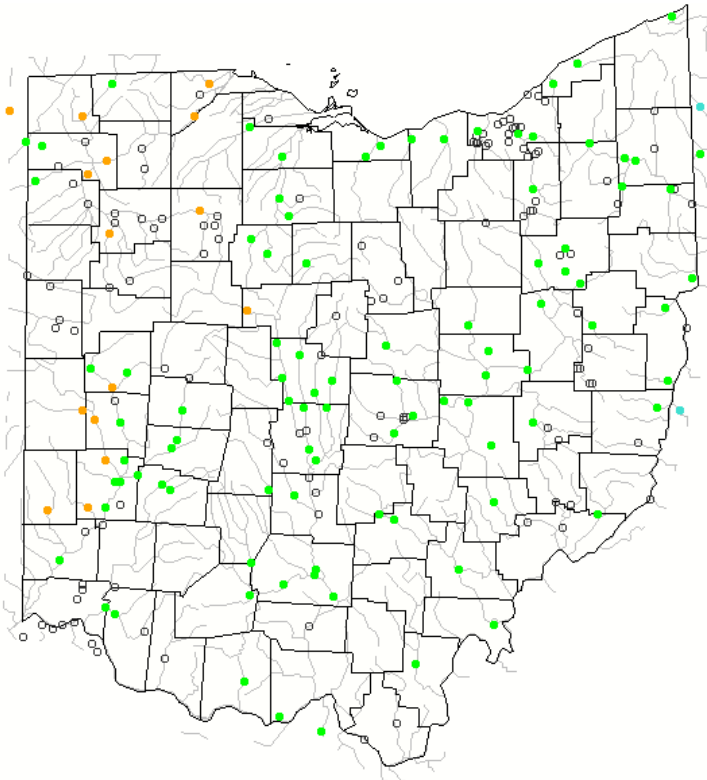
Calculated Soil Moisture Ranking Percentile
MAY 13, 2020



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7-DAY



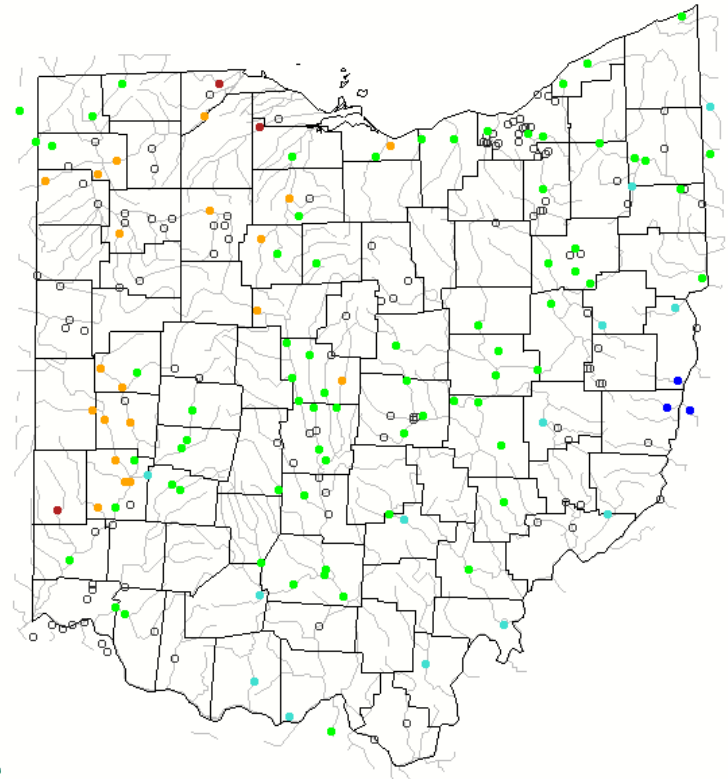
Explanation - Percentile classes

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

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

USGS Streamflow

28-DAY



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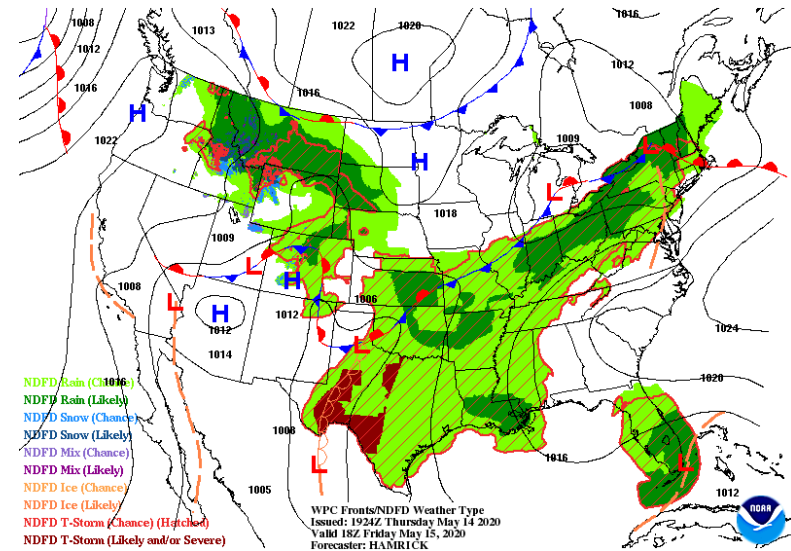
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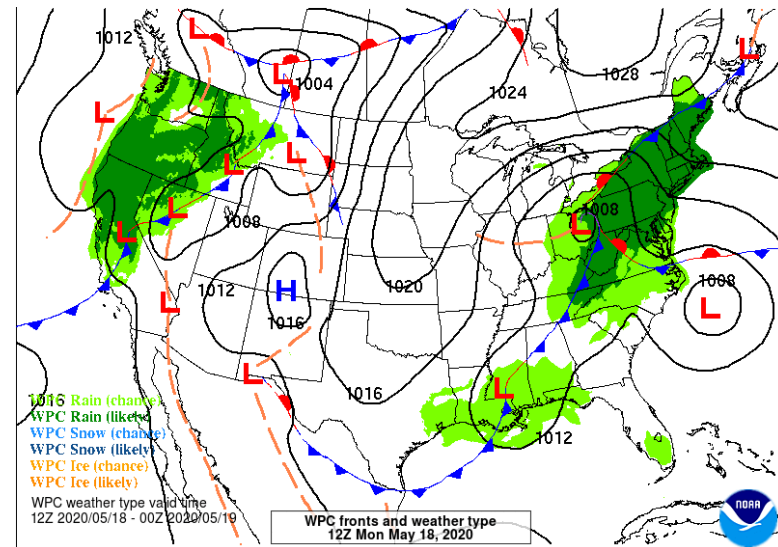


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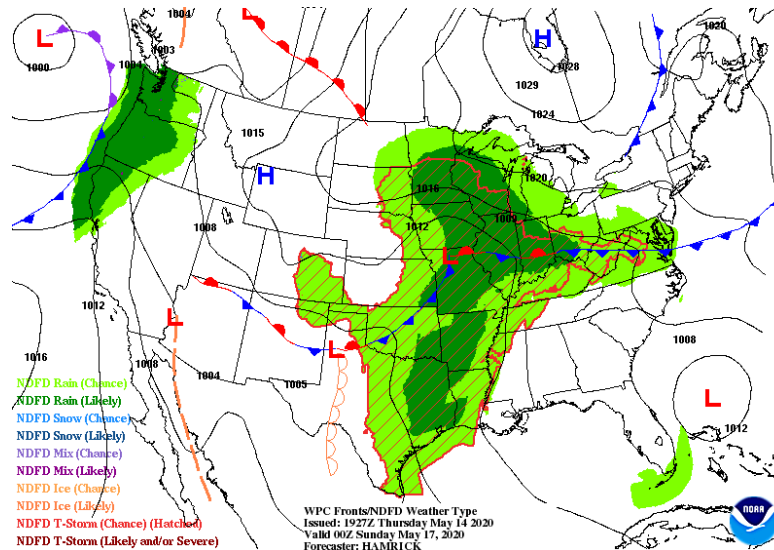
Weather for the Week Ahead



Friday 5/15



Monday 5/18



Saturday 5/16

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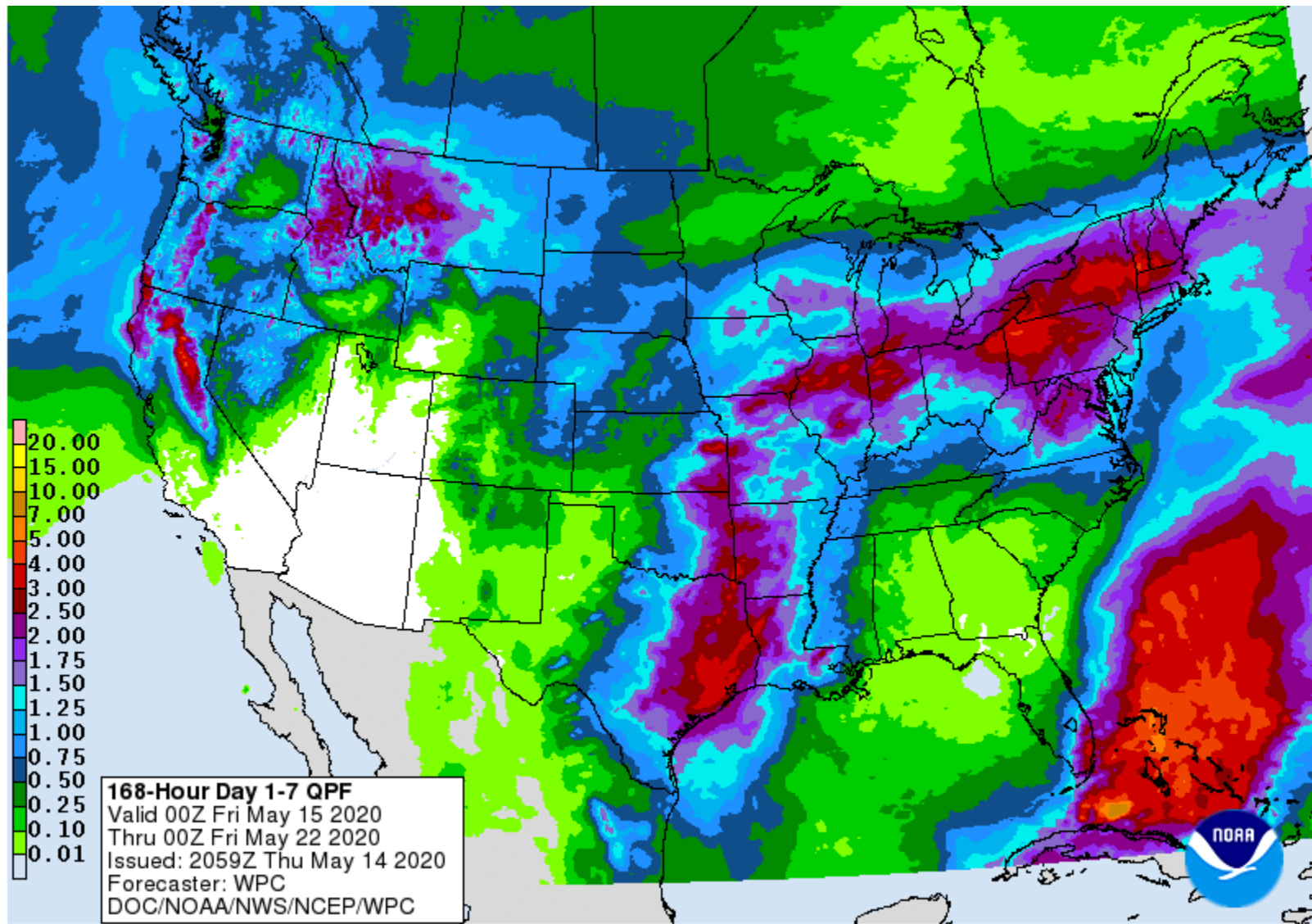
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Weather for the Week Ahead



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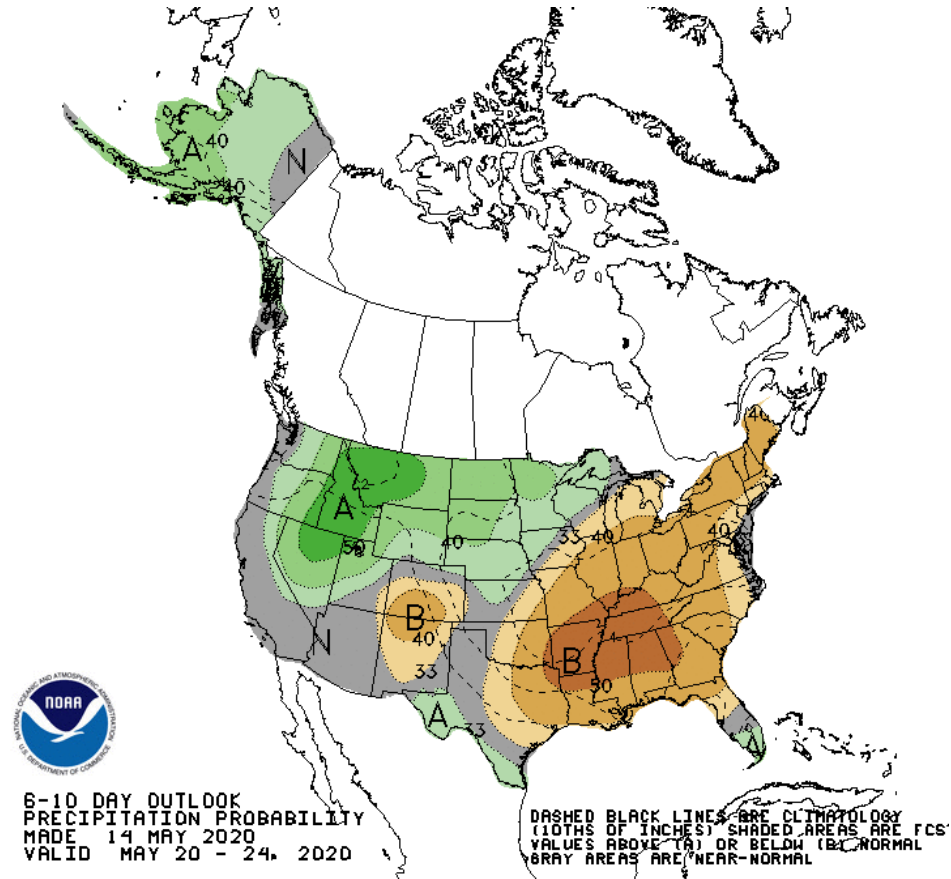
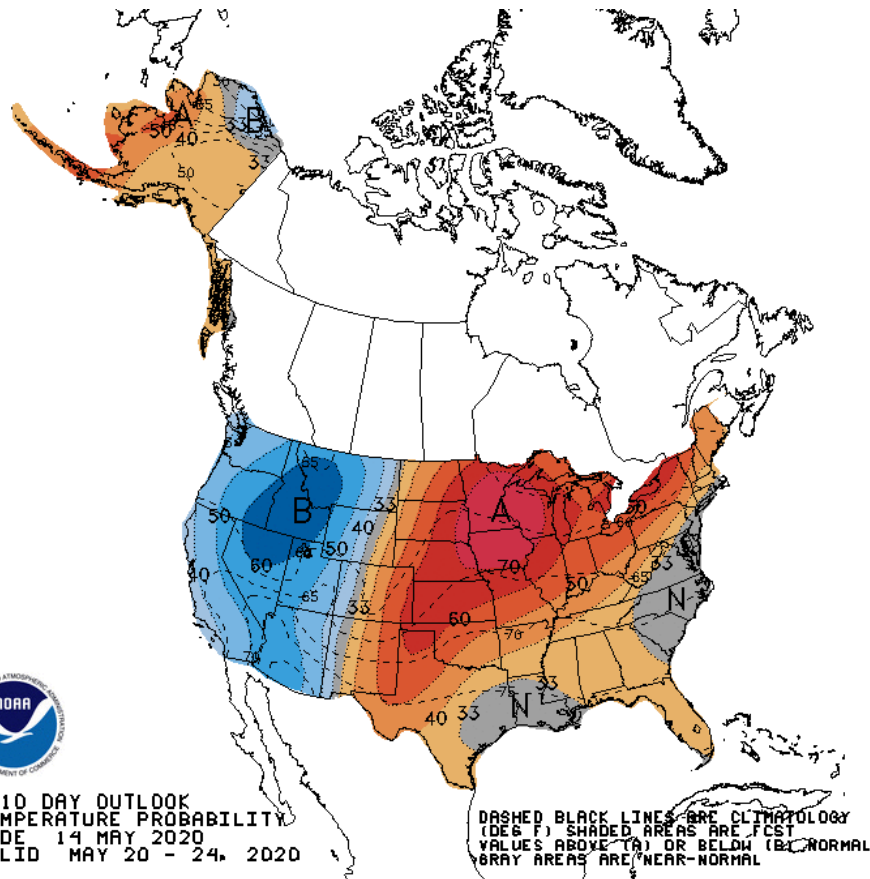
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6-10 Day Outlook



Highs: 68-74°F; Lows: 48-54°F; Precip: 0.85-1.05" (per week)

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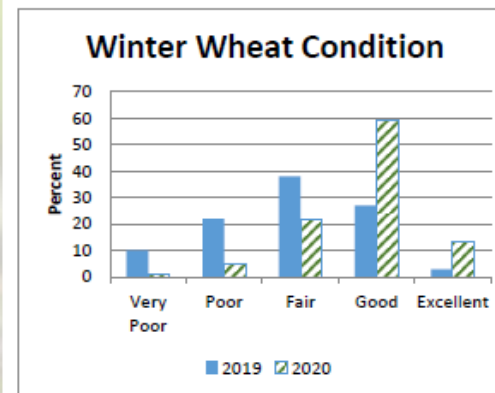
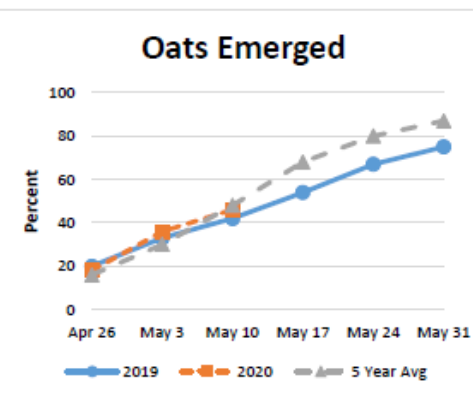
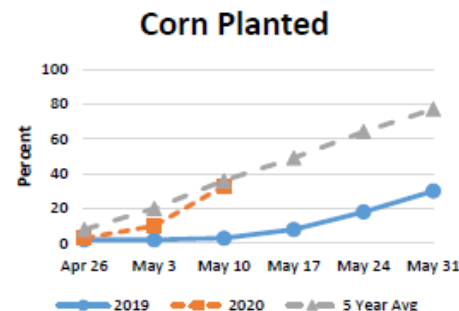
Ag Highlights

- 4.2 suitable days for fieldwork ending May 10
- Planting, installed tile, tilled soil, sprayed herbicides, and applied fertilizer
- Pastures look great. Corn progress better than last year.
- Activity strong in NW Ohio

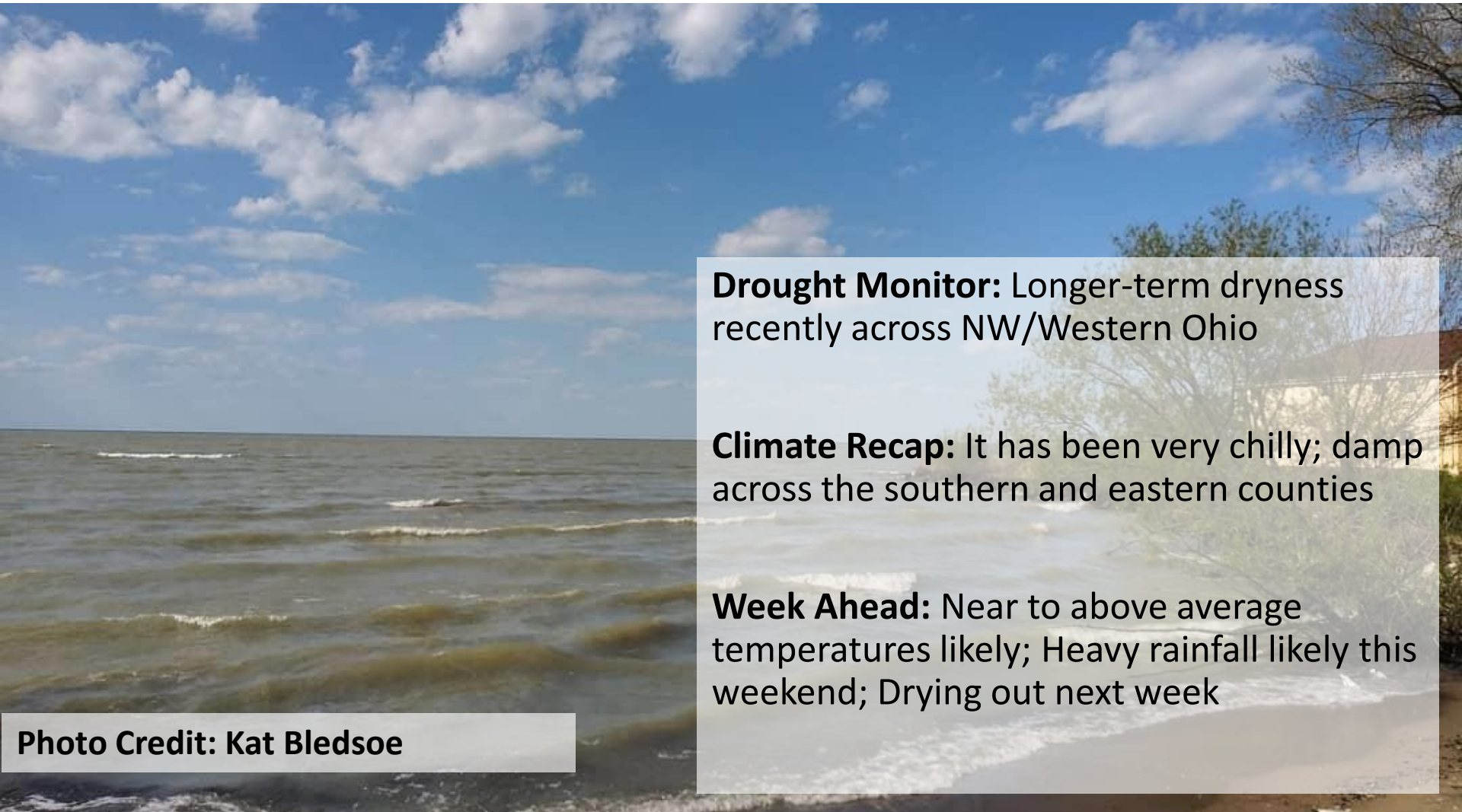
NASS: Cheryl Turner –

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

Photo Credit: Beth Scheckelhoff



Summary of Conditions



Drought Monitor: Longer-term dryness recently across NW/Western Ohio

Climate Recap: It has been very chilly; damp across the southern and eastern counties

Week Ahead: Near to above average temperatures likely; Heavy rainfall likely this weekend; Drying out next week

Photo Credit: Kat Bledsoe



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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://cocoahs.org>
- Song: "Wishful Thinking" by Dan Lebowitz