Hydrologic and Climate Assessment

April 16, 2020

THE OHIO STATE UNIVERSITY

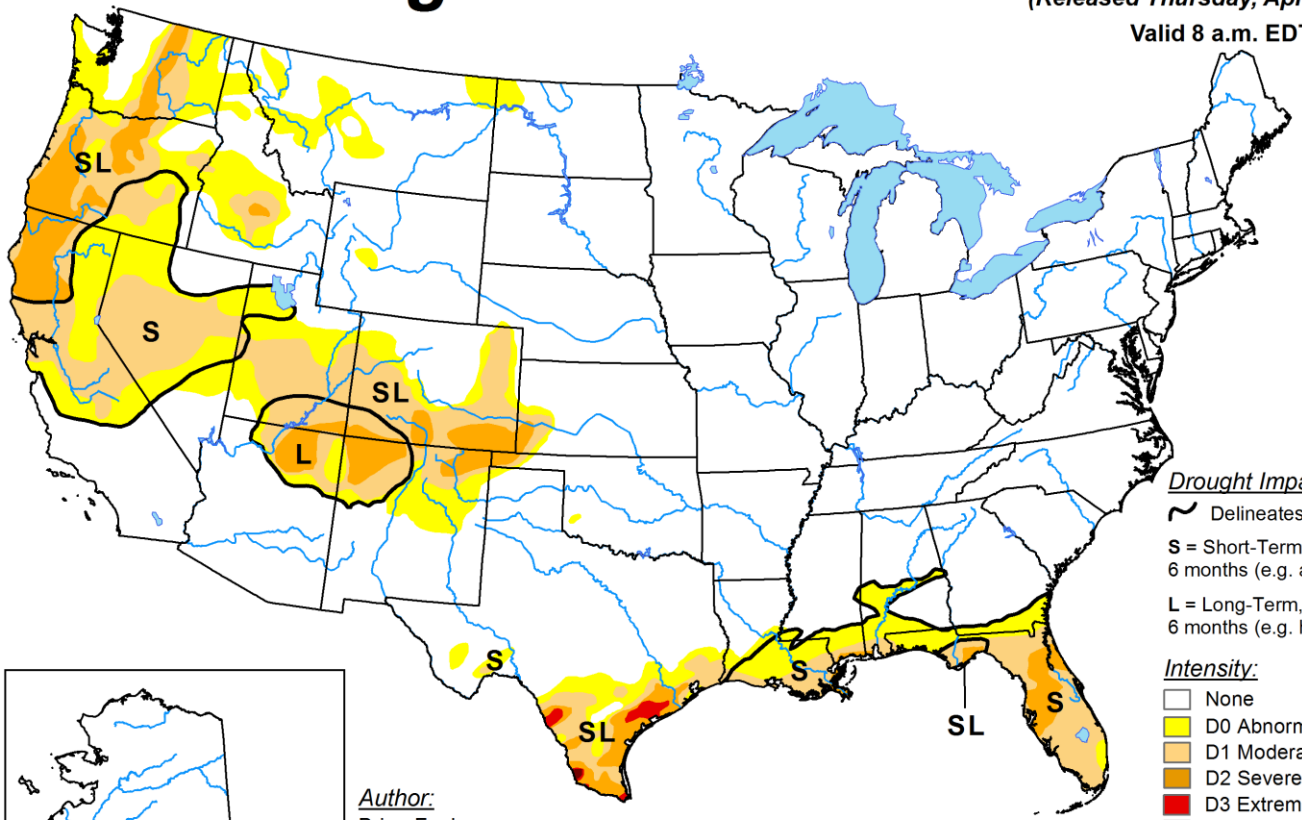
Aaron B. Wilson
STATE CLIMATE OFFICE OF OHIO (SCOO)
DEPARTMENT OF EXTENSION - CFAES
BYRD POLAR & CLIMATE RESEARCH CENTER
DEPARTMENT OF GEOGRAPHY

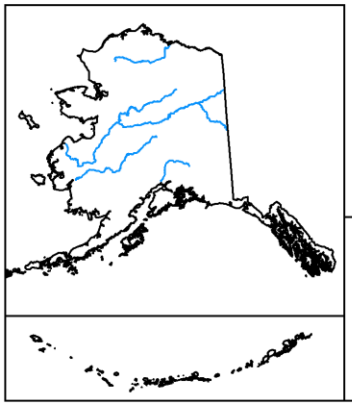
U.S. Drought Monitor

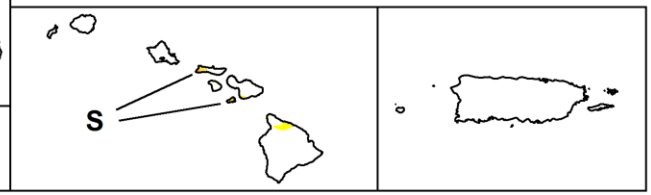
April 14, 2020

(Released Thursday, Apr. 16, 2020)

Valid 8 a.m. EDT







Drought Impact Types:

Delineates dominant impacts

S = Short-Term, typically less than 6 months (e.g. agriculture, grasslands)

L = Long-Term, typically greater than 6 months (e.g. hydrology, ecology)

Intensity:

- None
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

Author:

Brian Fuchs

National Drought Mitigation Center

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to https://droughtmonitor.unl.edu/About.aspx

USDA NDMC

droughtmonitor.unl.edu

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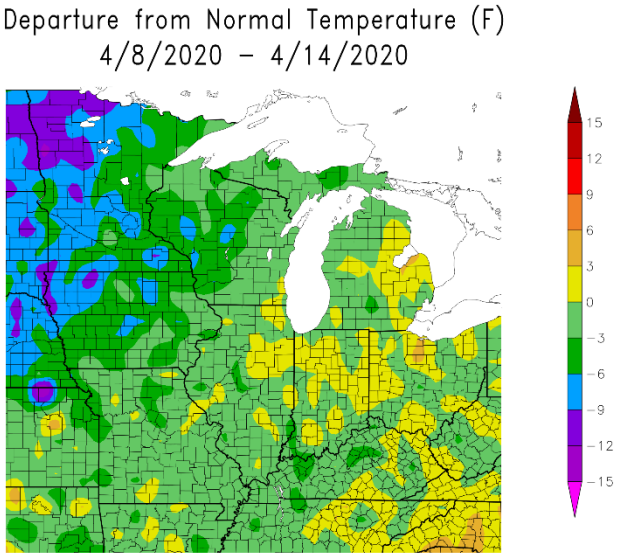
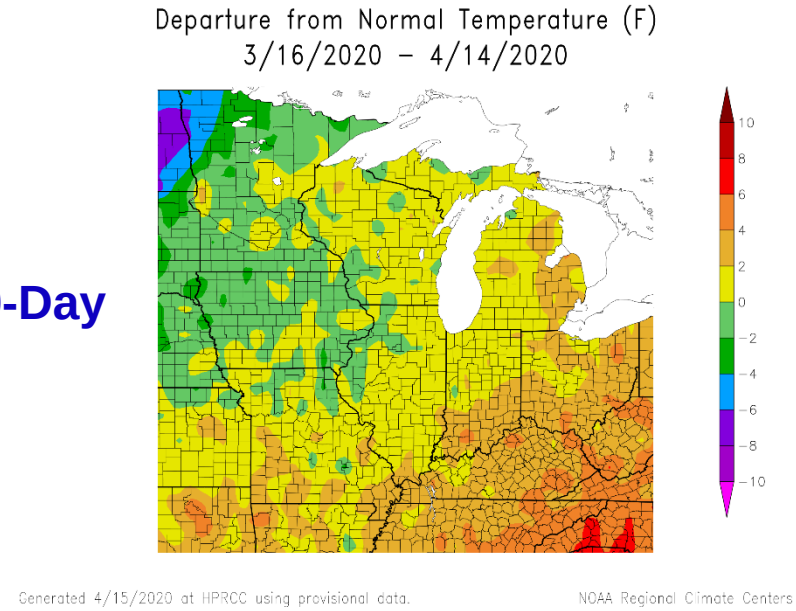
Temperature Differences Compared to Average (1981-2010)

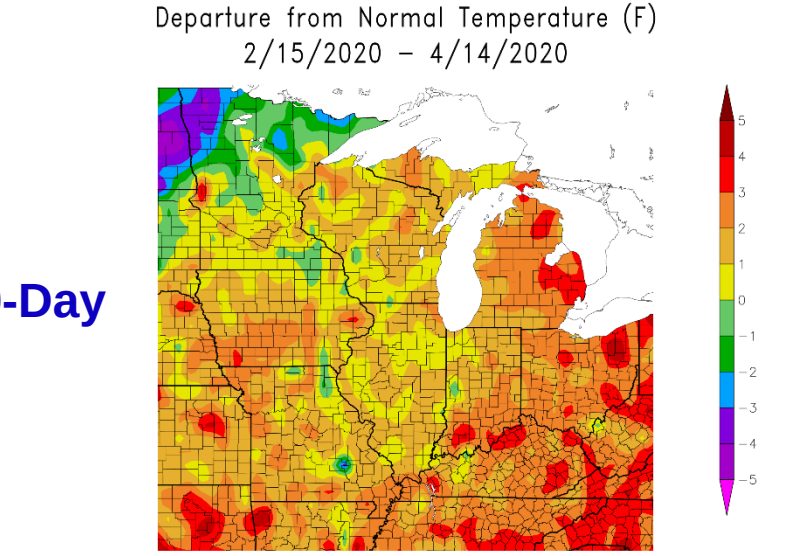
7-Day



30-Day



60-Day



NATIONAL INTEGRATED DROUGHT INFORMATION SYSTEM
NIDIS Drought.gov
U.S. Drought Portal

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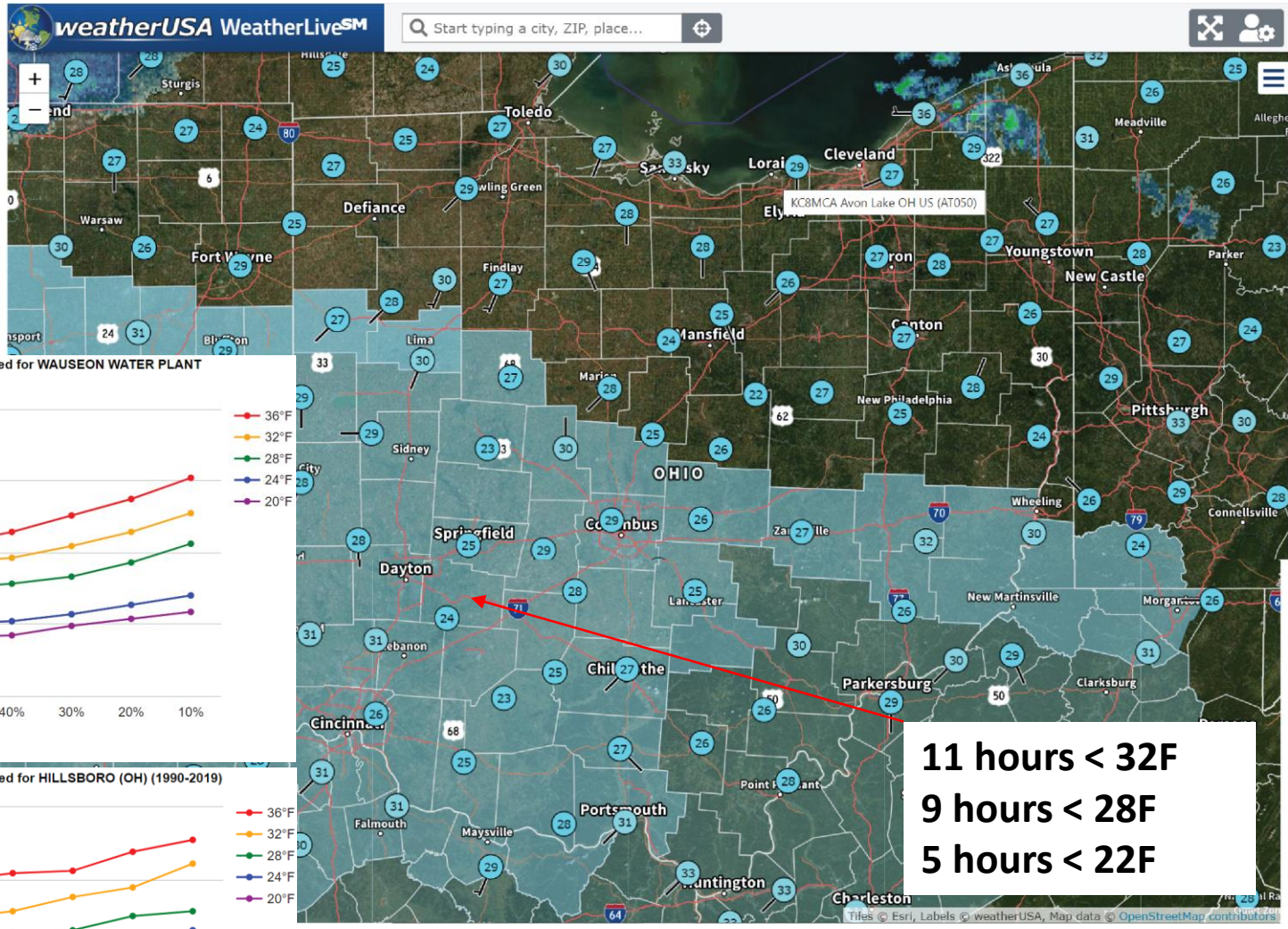
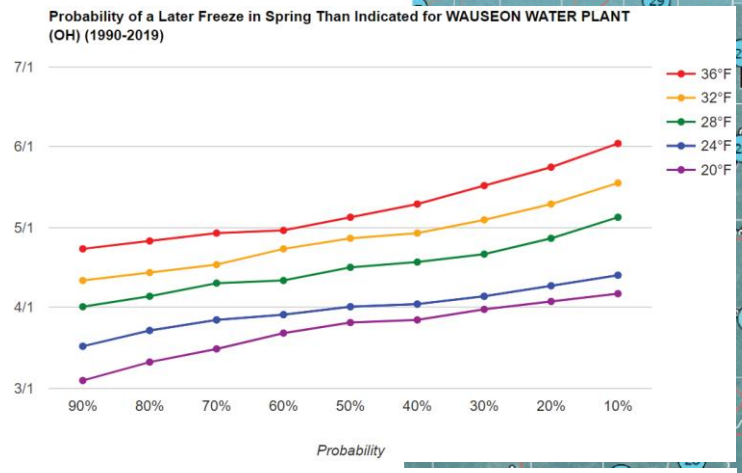
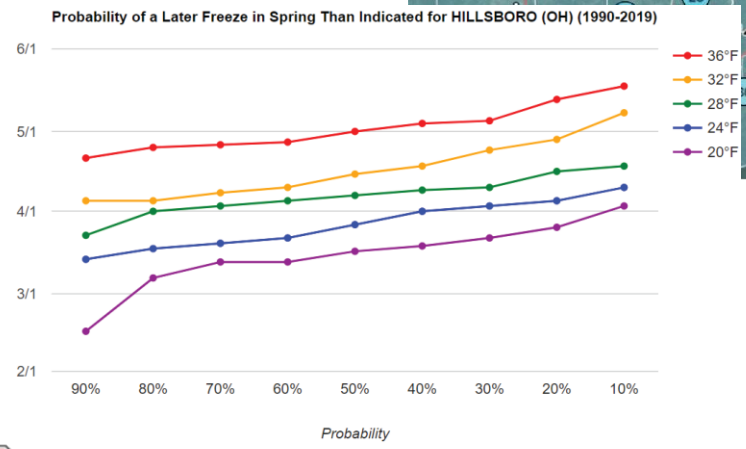
This Week's Cold







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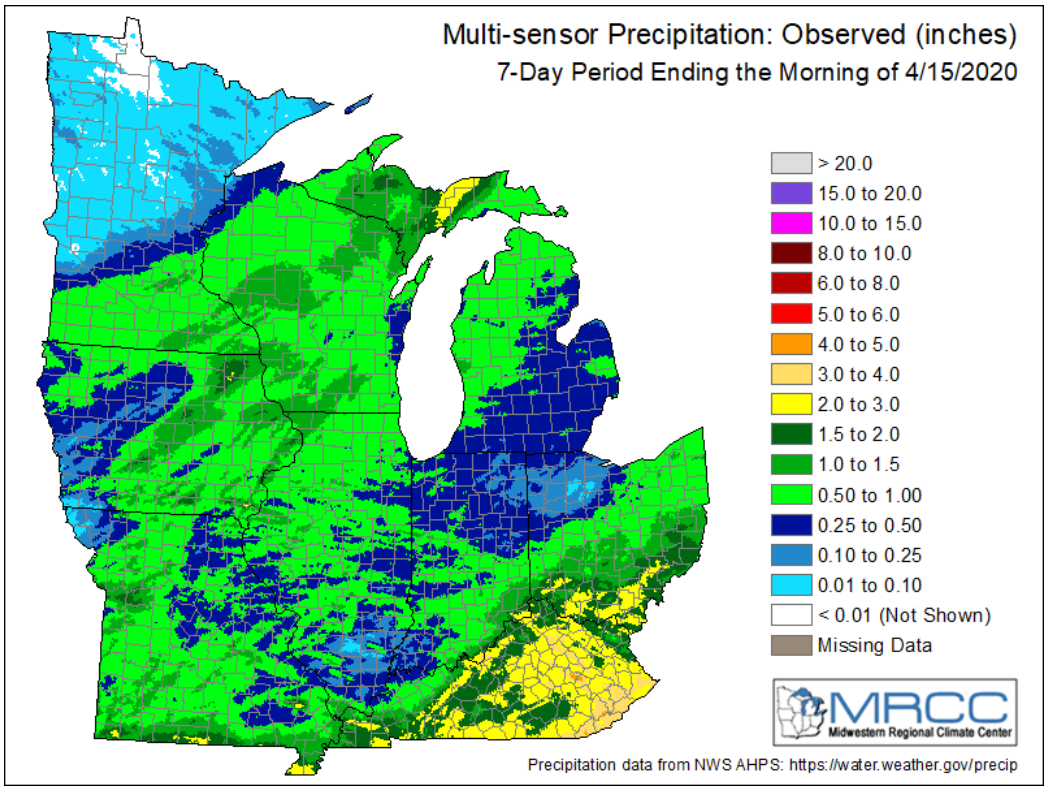
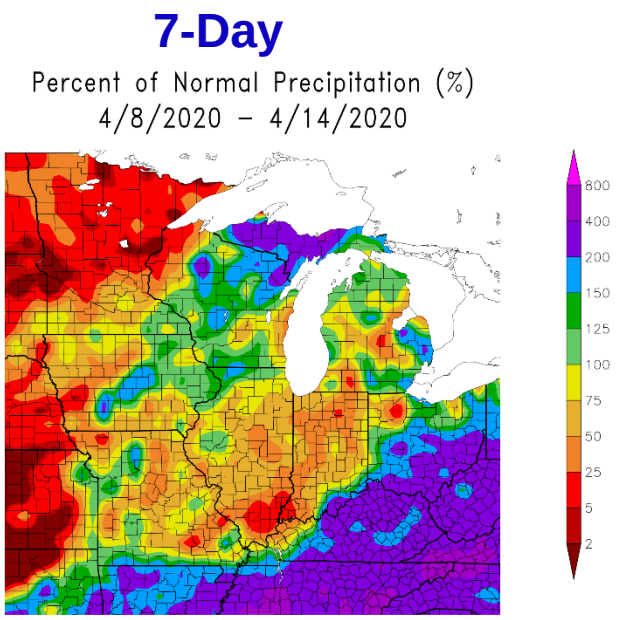
This Week's Precipitation





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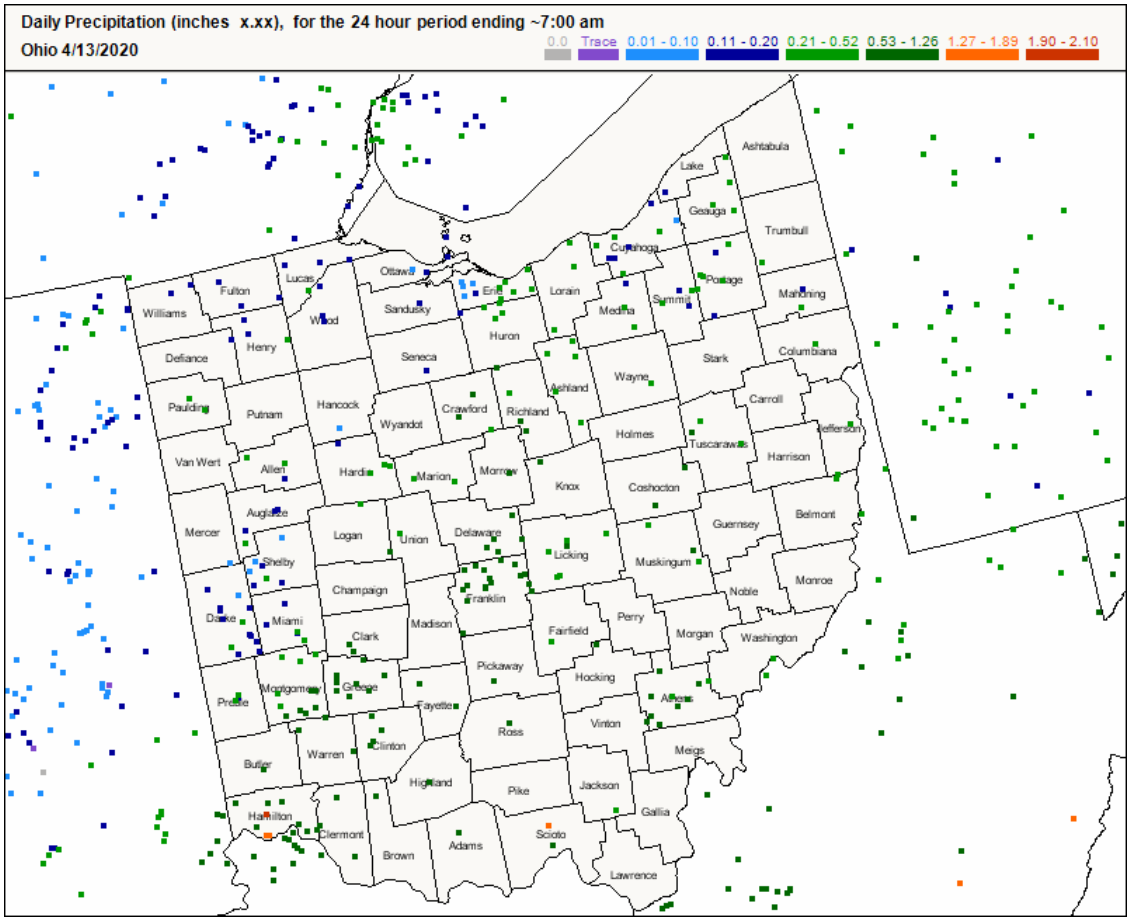
CoCoRaHS



https://cocorahs.org/

Top 10 Wettest: Mar-Apr

CoCoRaHS Name	Total Precip (inches)
Sunbury 5.7 ESE	12.58
Reynoldsburg 1.1 ENE	12.27
Granville 4.0 N	11.70
Kirkersville 3.3 N	11.64
Springfield 7.4 SW	11.57
Alexandria 2.1 NNW	11.40
Westerville 0.7 N	11.29
Newark 9.9 ENE	11.14
Granville 5.6 N	11.08
Dresden 1.1 N	10.98

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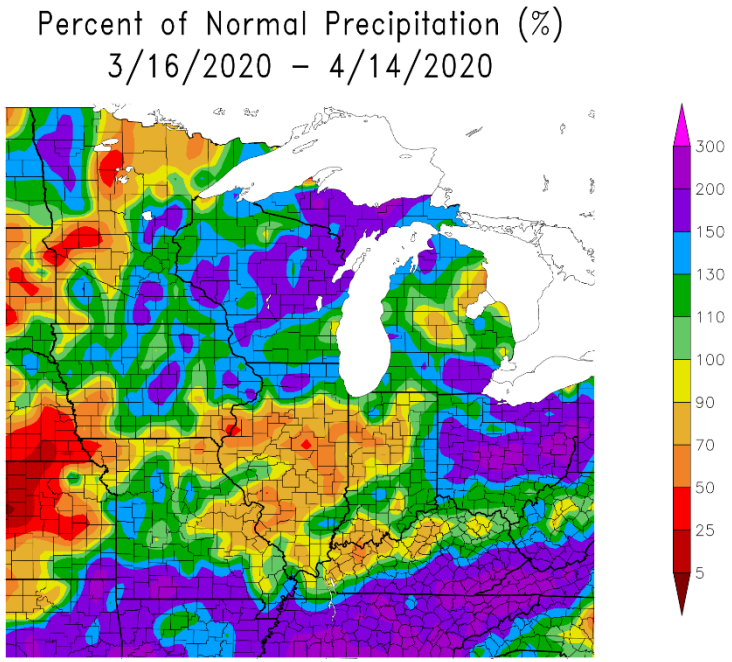
Precipitation Differences Compared to Average (1981-2010)

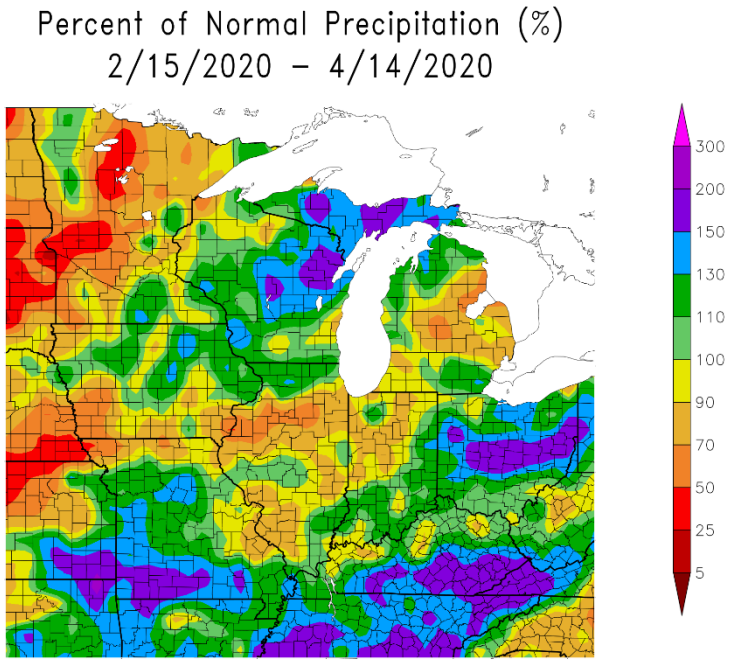
30-Day



Generated 4/15/2020 at HPRCC using provisional data.

NOAA Regional Climate Centers

60-Day



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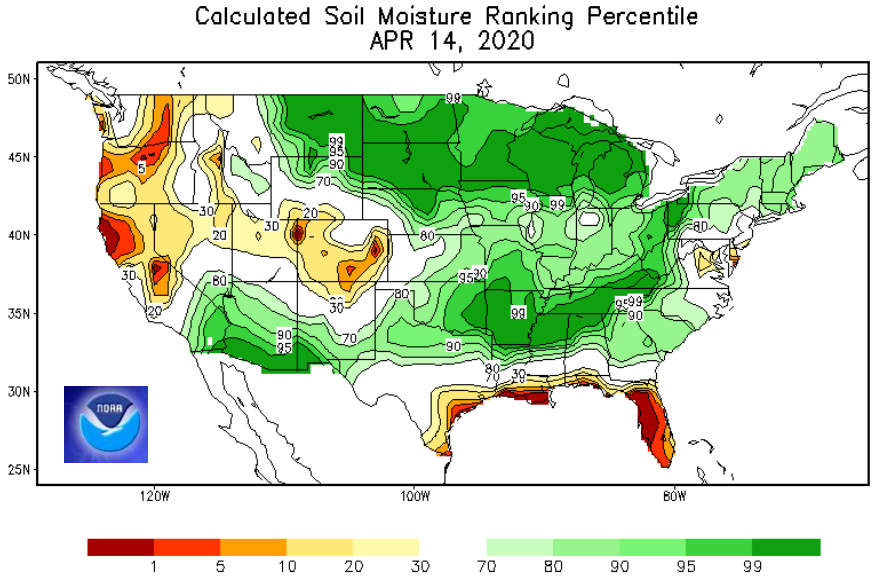
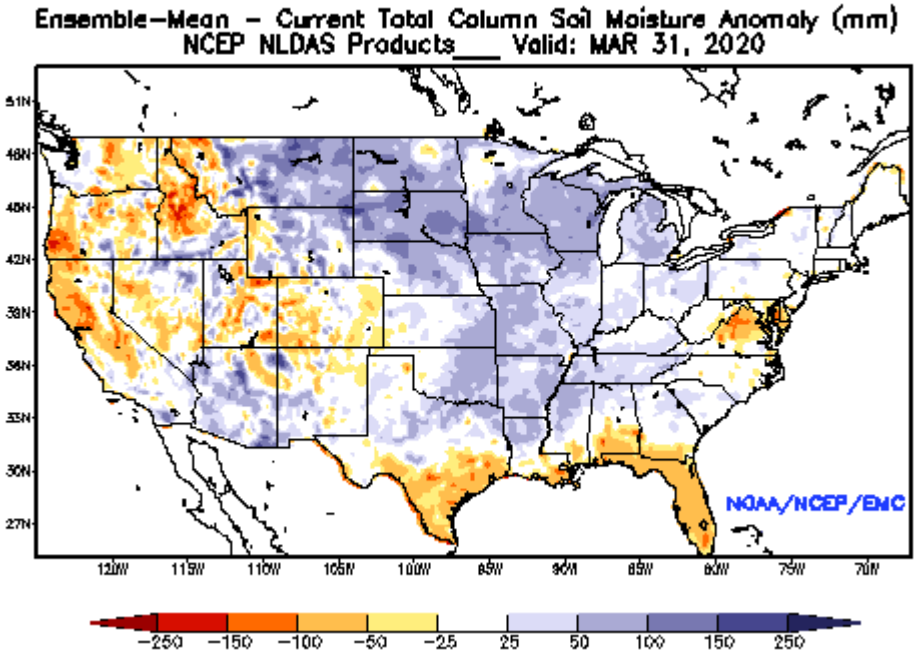
Soil Moisture





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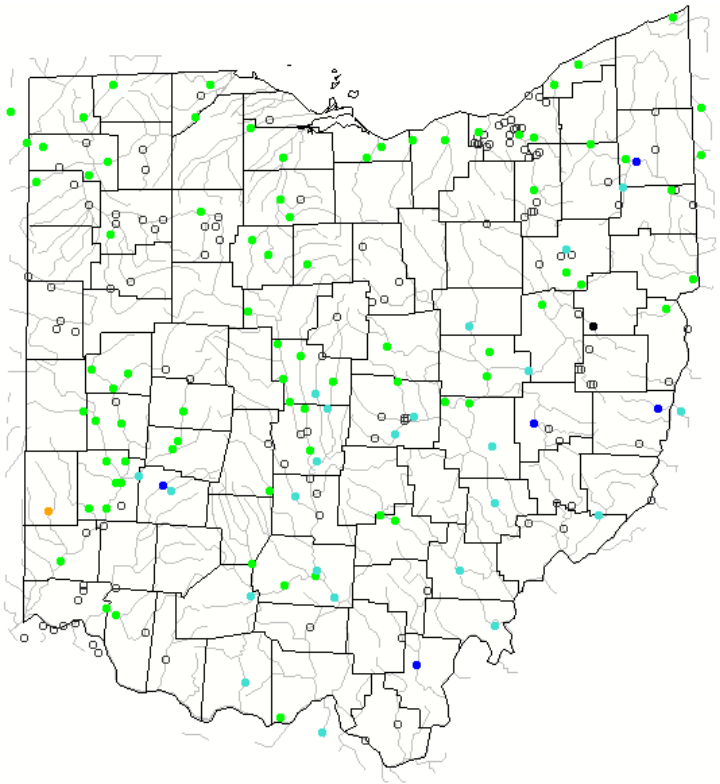
USGS Streamflow

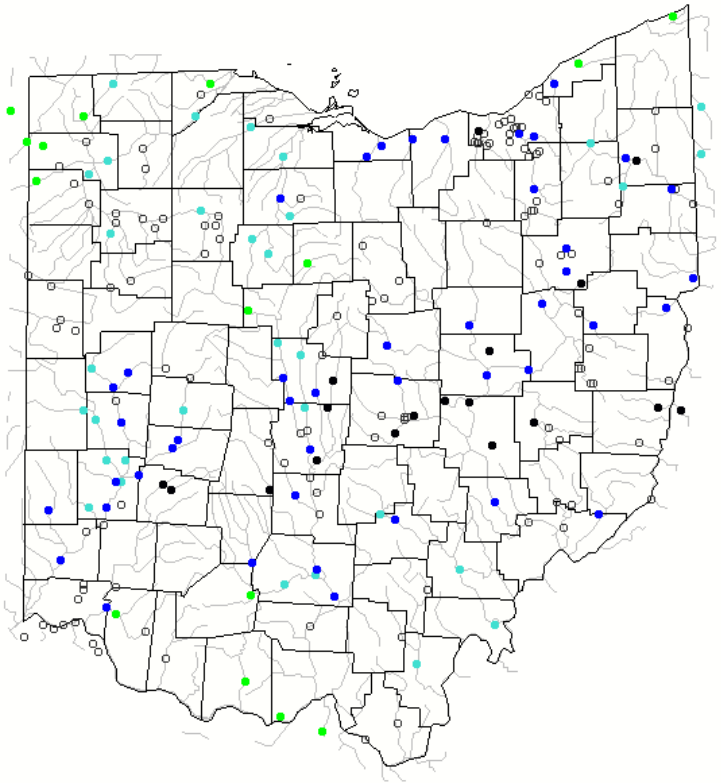
7-DAY



USGS

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

28-DAY



USGS

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

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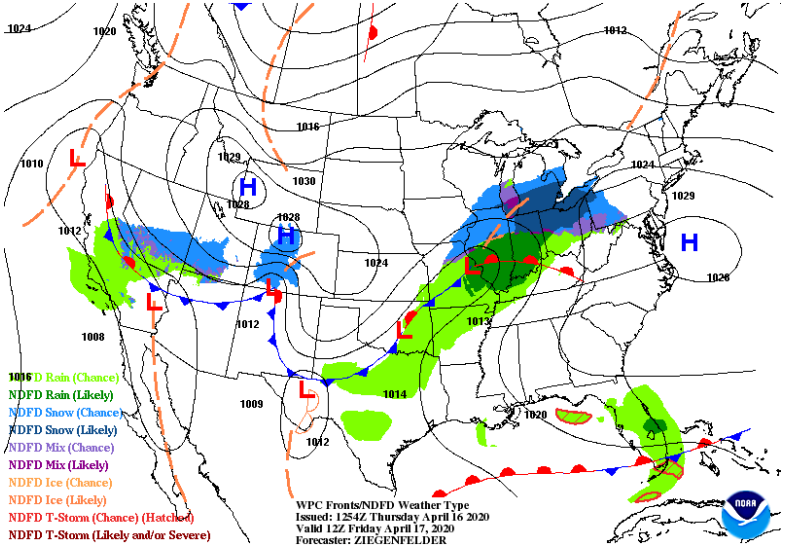
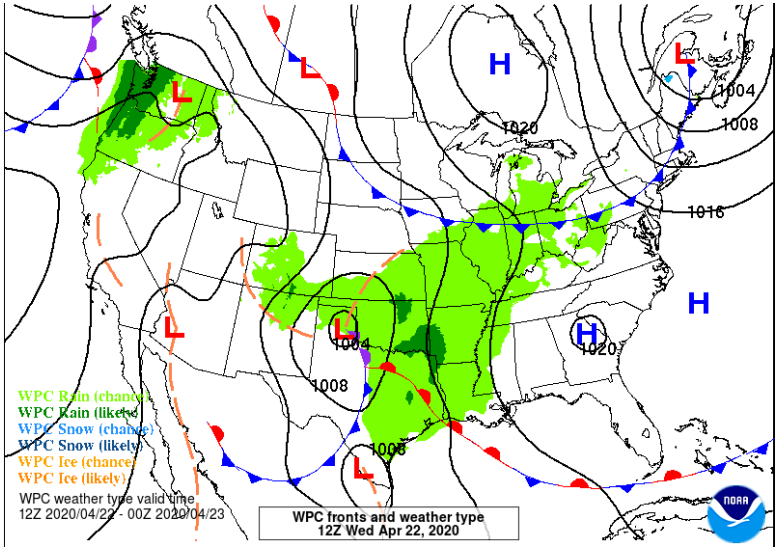
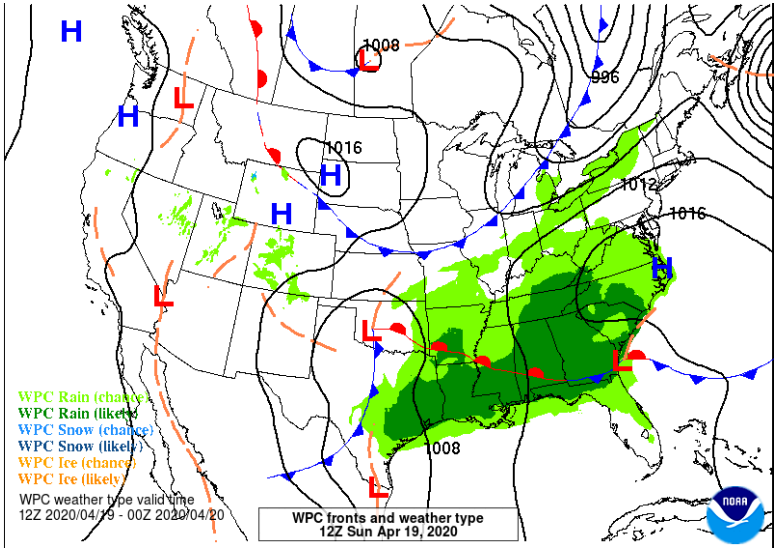
Weather for the Week Ahead



Friday



Tuesday



Sunday

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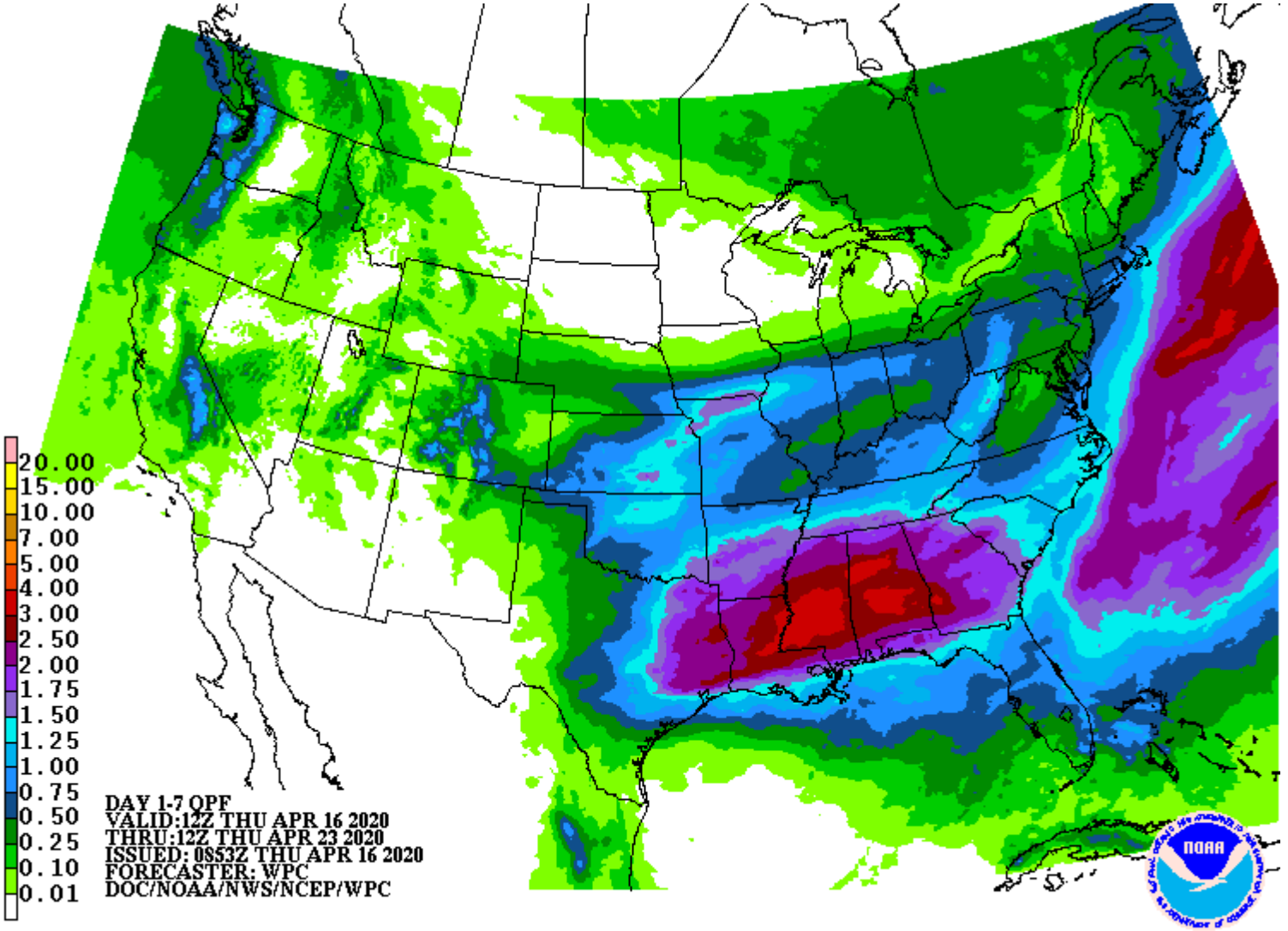
Weather for the Week Ahead



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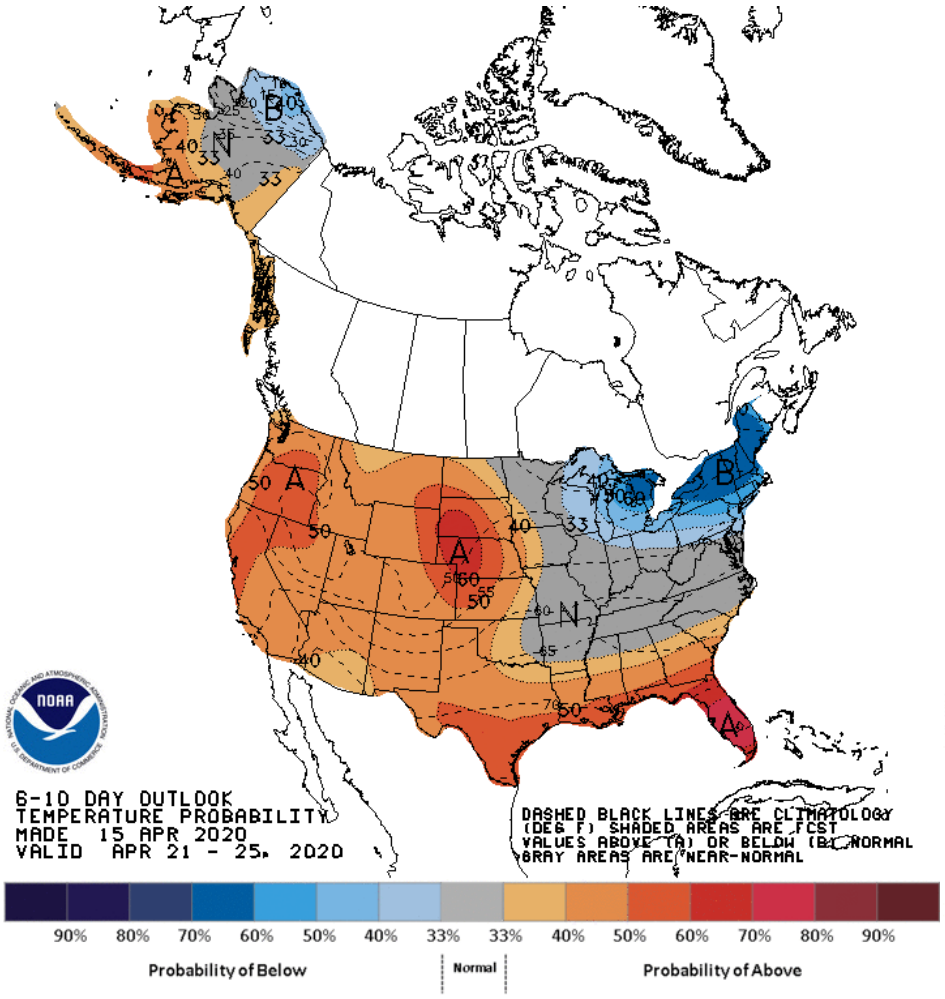
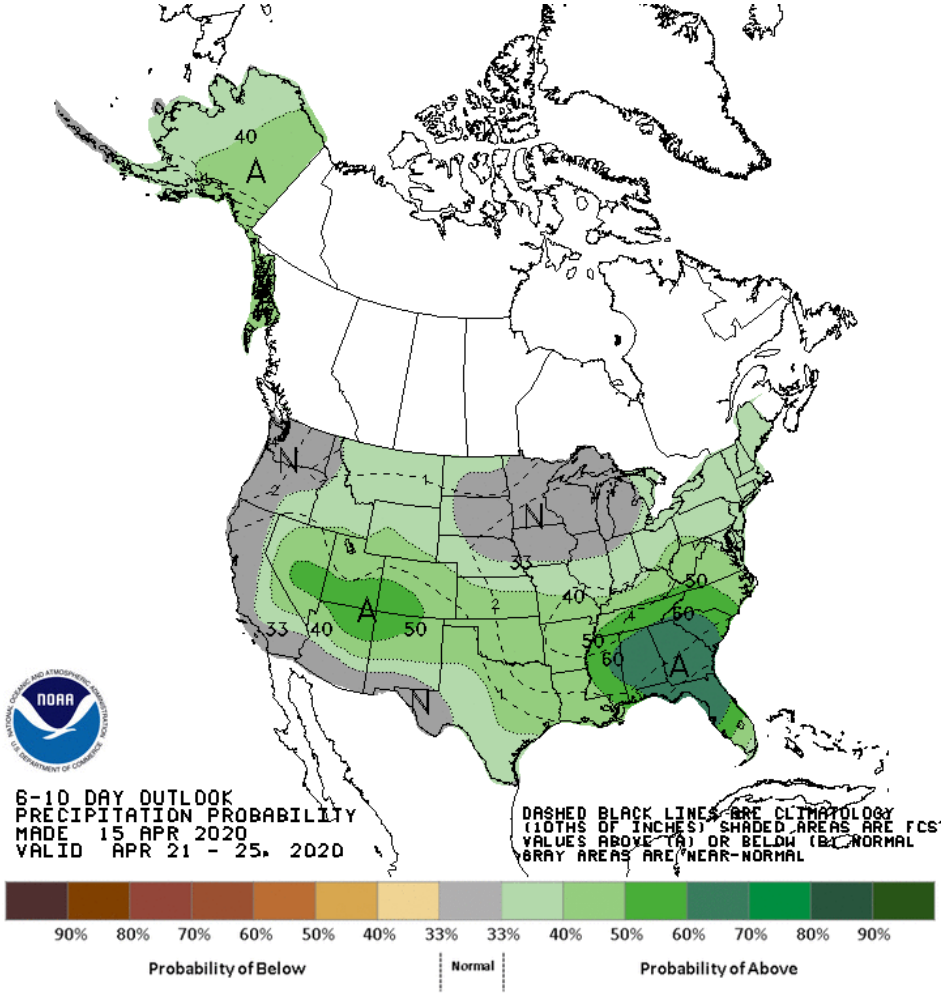
6-10 Day Outlook





Highs: 57-64°F; **Lows:** 37-43°F; **Precip:** 0.85-1.05” (per week)

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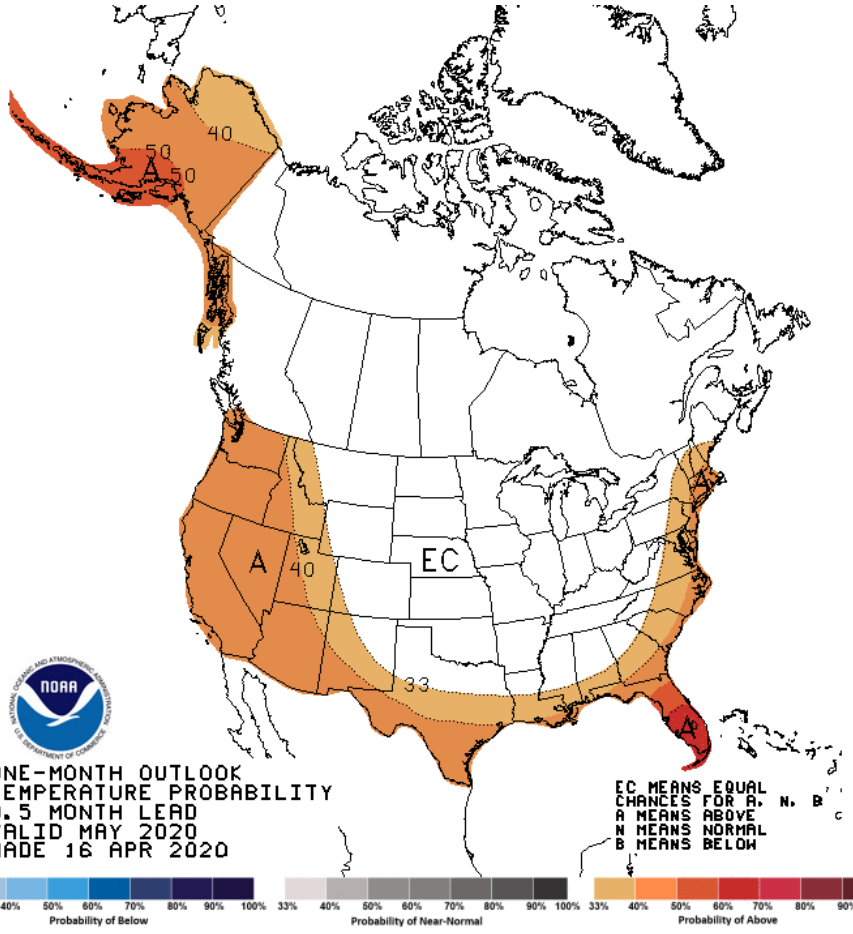
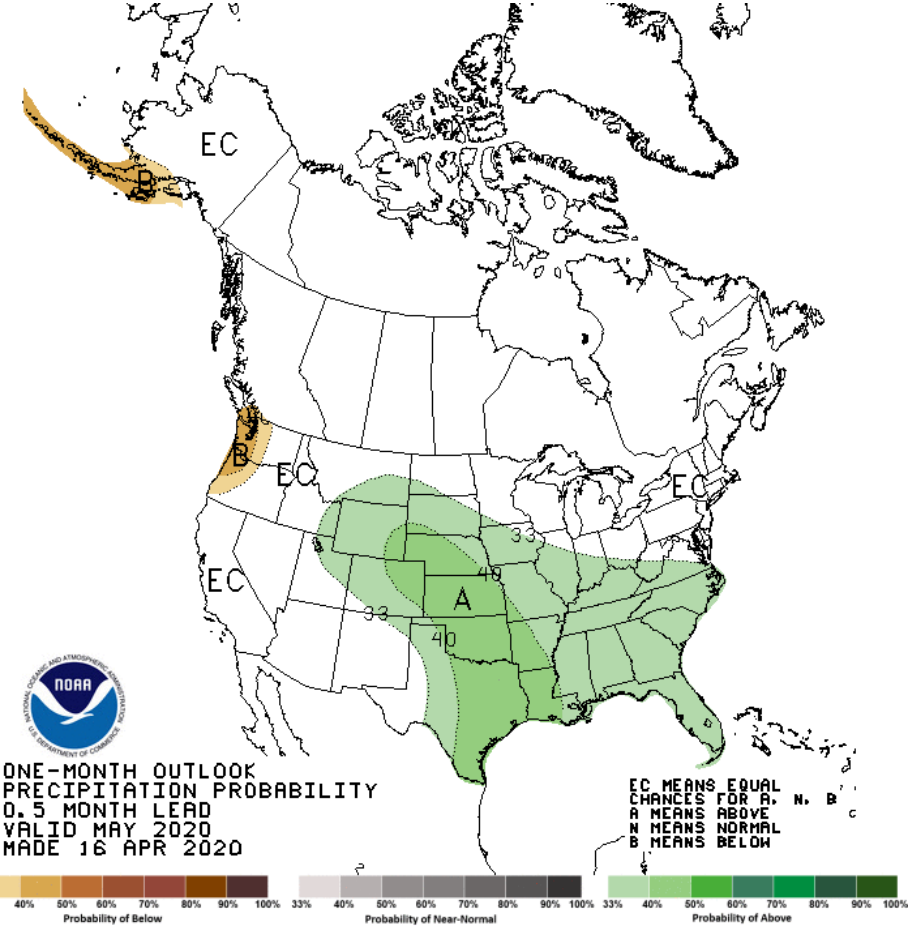
May Outlook





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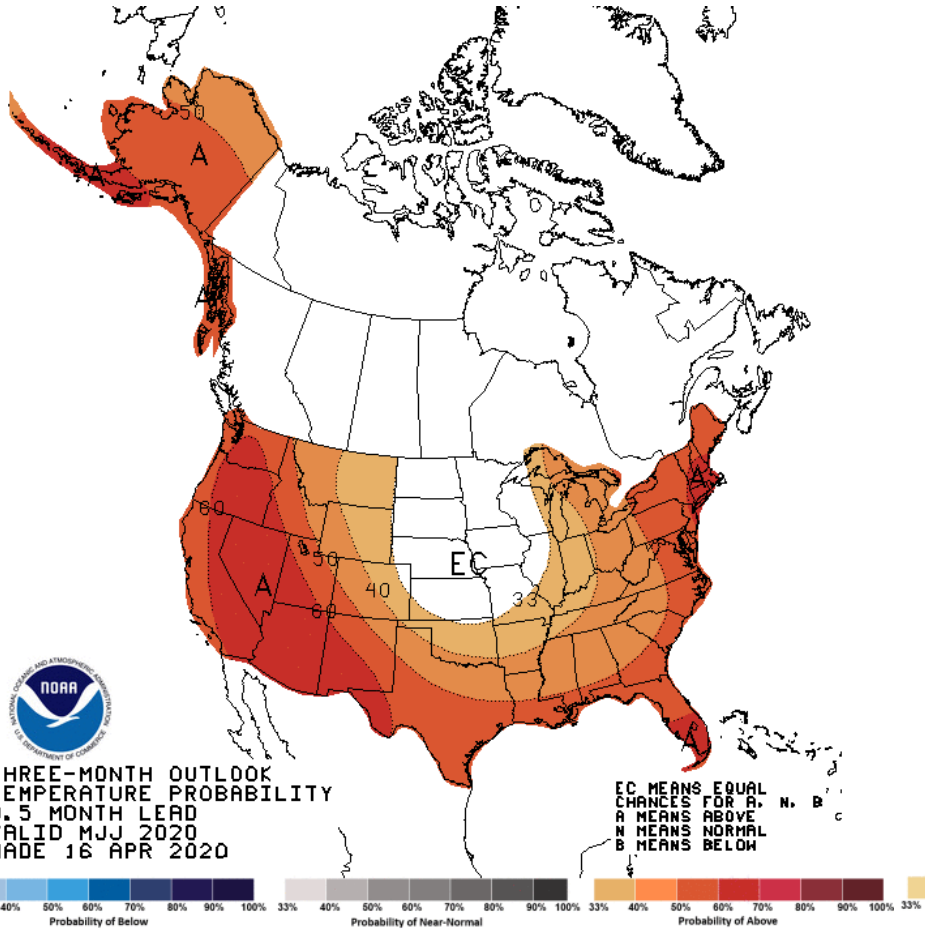
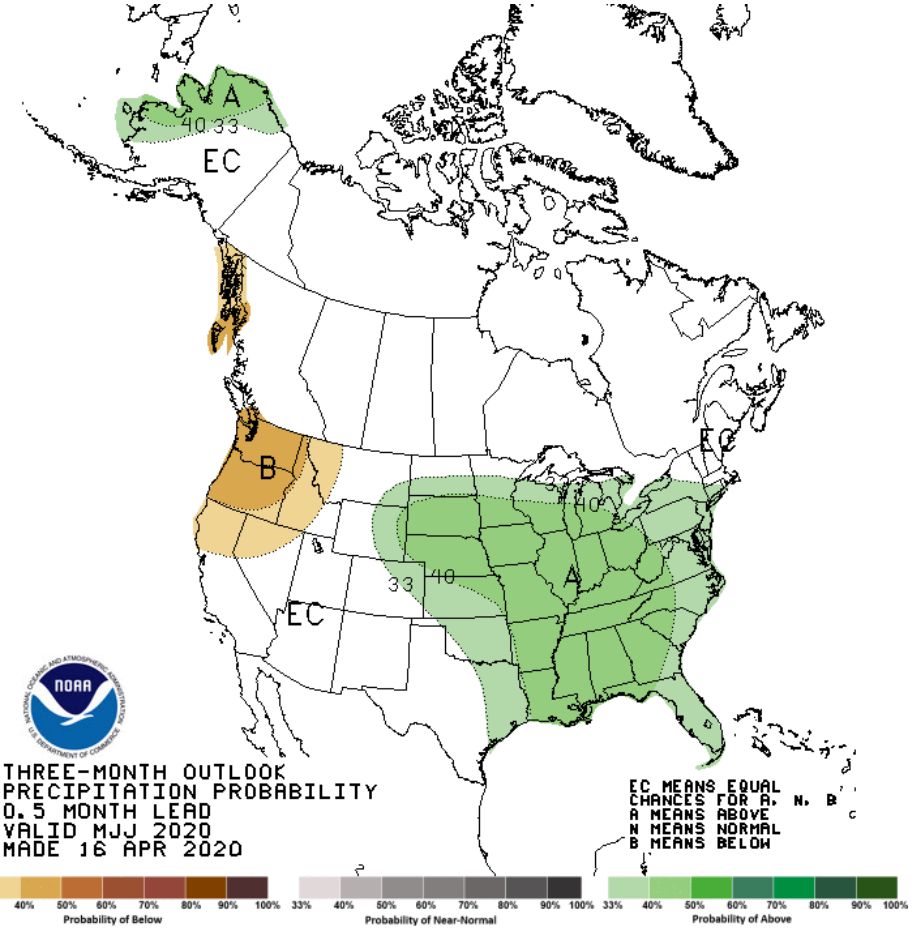
May - July Outlook





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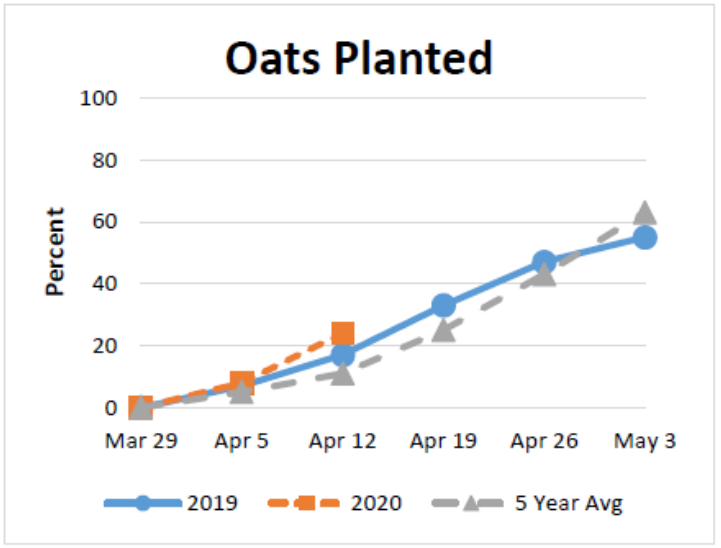
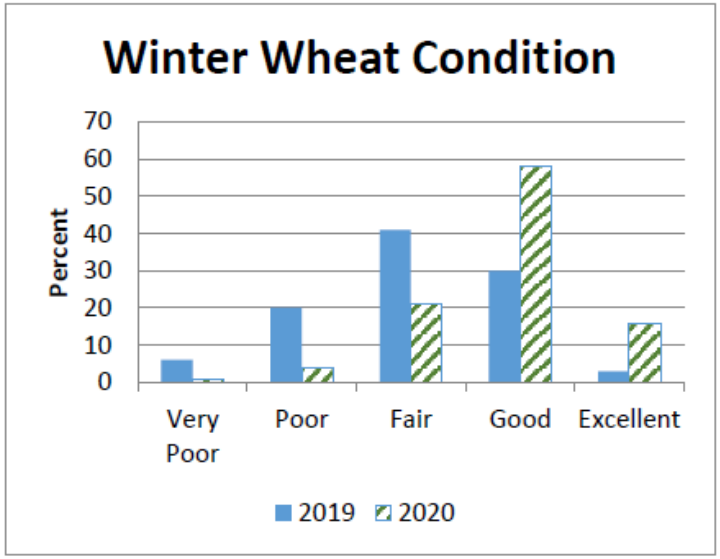
Ag Highlights

- 2 suitable days for fieldwork
- Spraying weeds, tiling, manure hauling, top dressing wheat
- Soil moisture remains at a surplus





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

Photo Credit: Beth Scheckelhoff

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Summary of Conditions

Photo Credit: Elizabeth Hawkins

Drought Monitor: None

Climate Recap: Heavy rain in the south and east; cold temperatures across the region

Ahead: Slow moderation in temperatures; active pattern but weak systems (some snow)

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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://cocorahs.org

- Song: "Wishful Thinking" by Dan Lebowitz