

Hydrologic and Climate Assessment

May 7, 2020



Aaron B. Wilson

STATE CLIMATE OFFICE OF OHIO (SCOO)

DEPARTMENT OF EXTENSION - CFAES

BYRD POLAR & CLIMATE RESEARCH CENTER

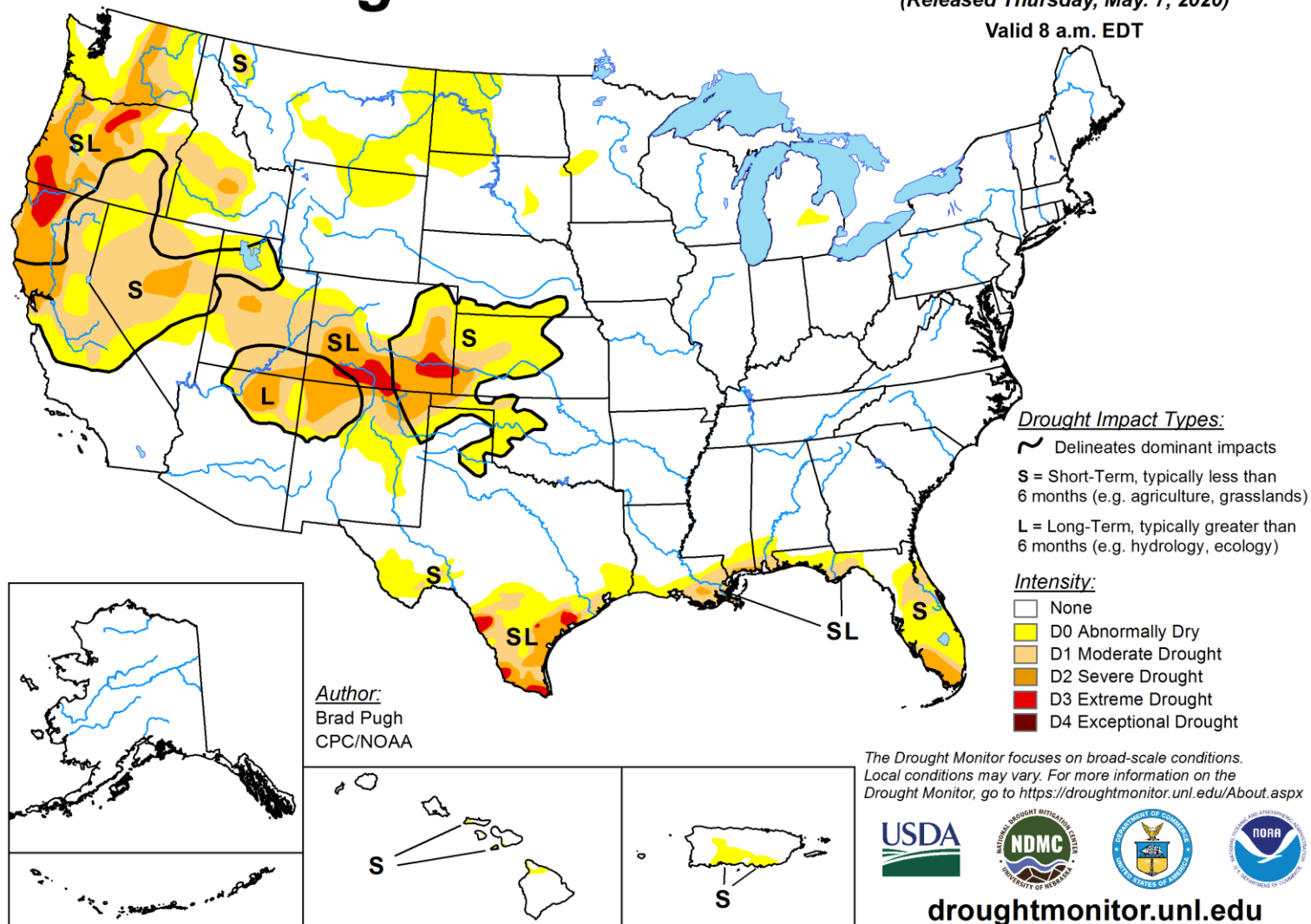
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U.S. Drought Monitor

May 5, 2020
(Released Thursday, May. 7, 2020)
Valid 8 a.m. EDT



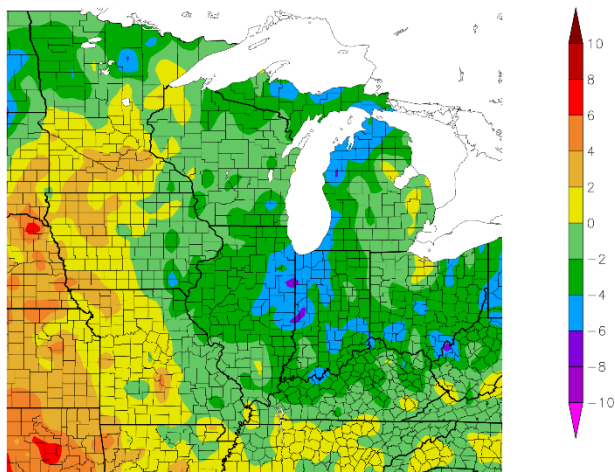
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Temperature Differences Compared to Average (1981-2010)

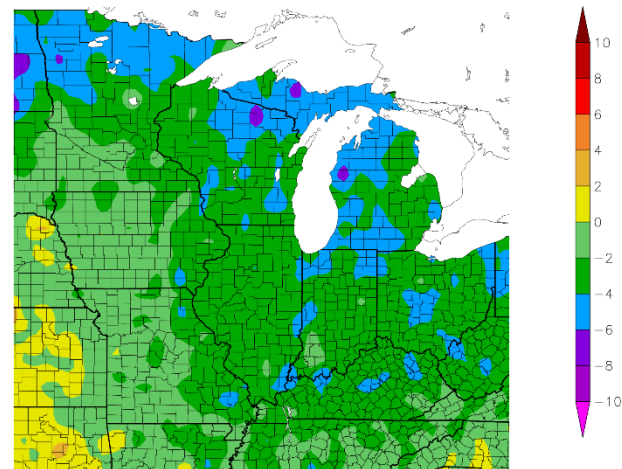
7-Day

Departure from Normal Temperature (F)
4/30/2020 – 5/6/2020



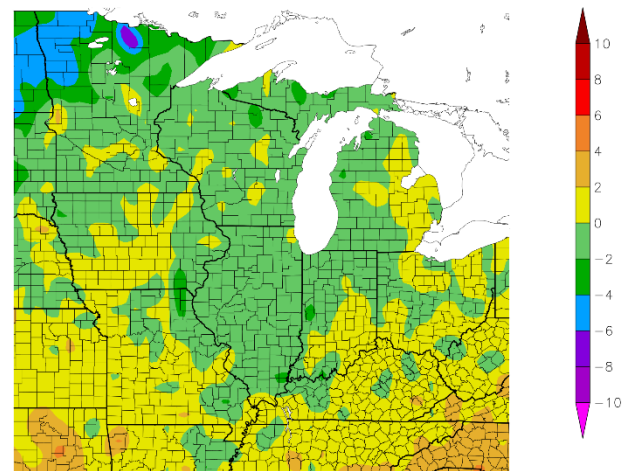
30-Day

Departure from Normal Temperature (F)
4/6/2020 – 5/5/2020

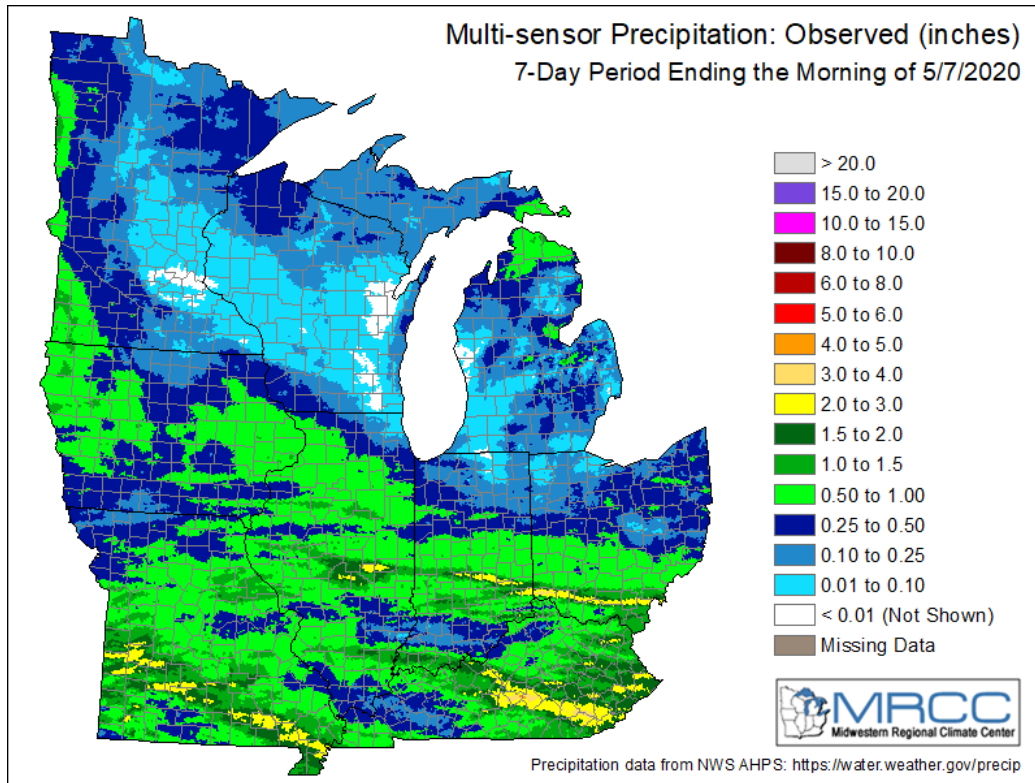


60-Day

Departure from Normal Temperature (F)
3/8/2020 – 5/6/2020

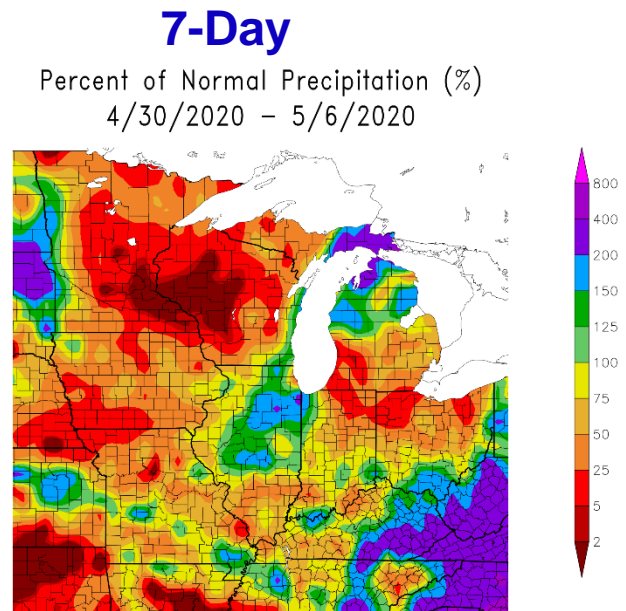


This Week's Precipitation



Generated 5/7/2020 at HPRCC using provisional data.

NOAA Regional Climate Centers



NATIONAL
INTEGRATED
DROUGHT
INFORMATION
SYSTEM



Drought.gov
U.S. Drought Portal

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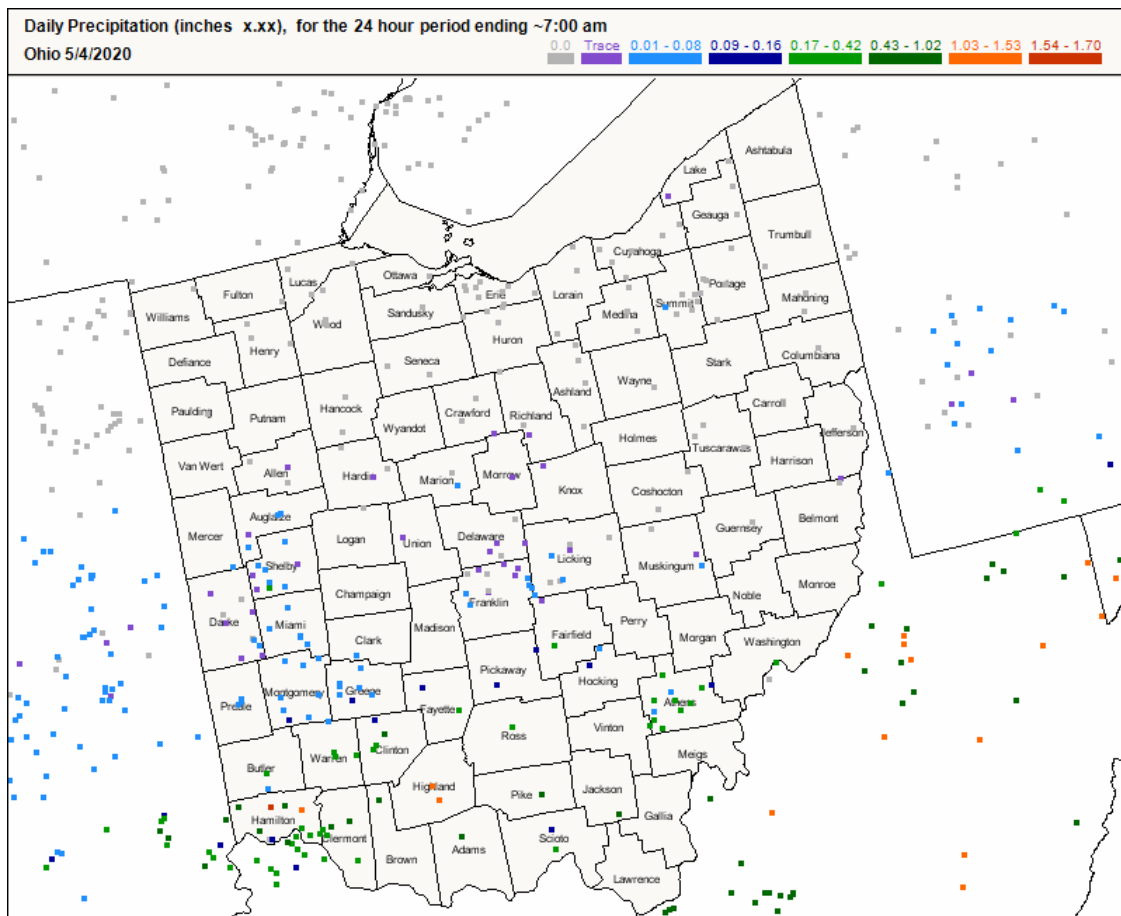
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CoCoRaHS

Top 10 Wettest: Mar-present



CoCoRaHS Name	Total Precip (inches)
Reynoldsburg 1.1 ENE	15.33
Sunbury 5.7 ESE	14.99
Westerville 0.7 N	14.16
Springfield 7.4 SW	14.12
Granville 4.0 N	14.07
Kirkersville 3.3 N	13.95
Westerville 3.4 N	13.80
Hanoverton 0.4 ENE	13.79
Alexandria 2.1 NNW	13.60
Grandview Heights 0.1 N	13.41

<https://cocorahs.org/>



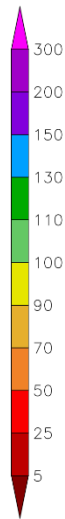
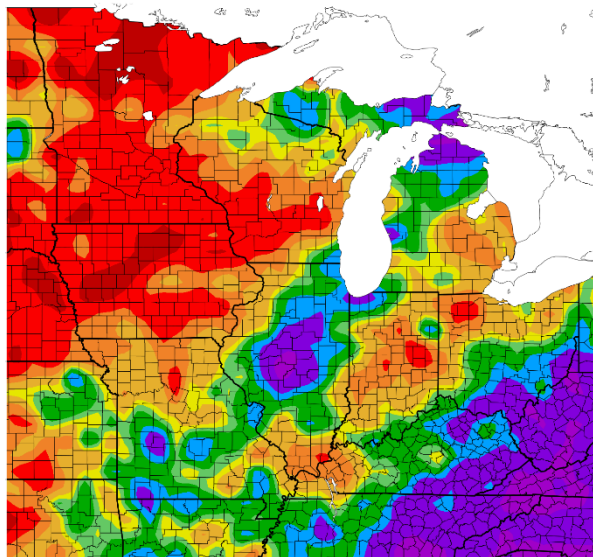
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Precipitation Differences Compared to Average (1981-2010)

30-Day

Percent of Normal Precipitation (%)
4/6/2020 – 5/5/2020

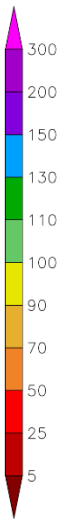
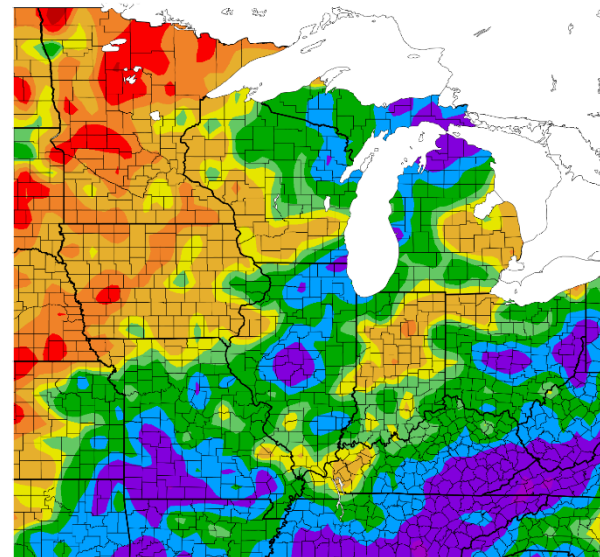


Generated 5/6/2020 at HPRCC using provisional data.

NOAA Regional Climate Centers

60-Day

Percent of Normal Precipitation (%)
3/8/2020 – 5/6/2020

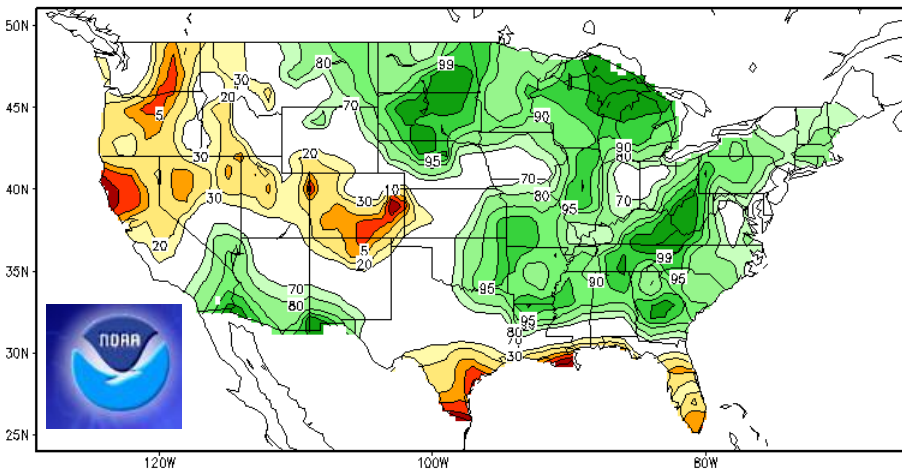


Generated 5/7/2020 at HPRCC using provisional data.

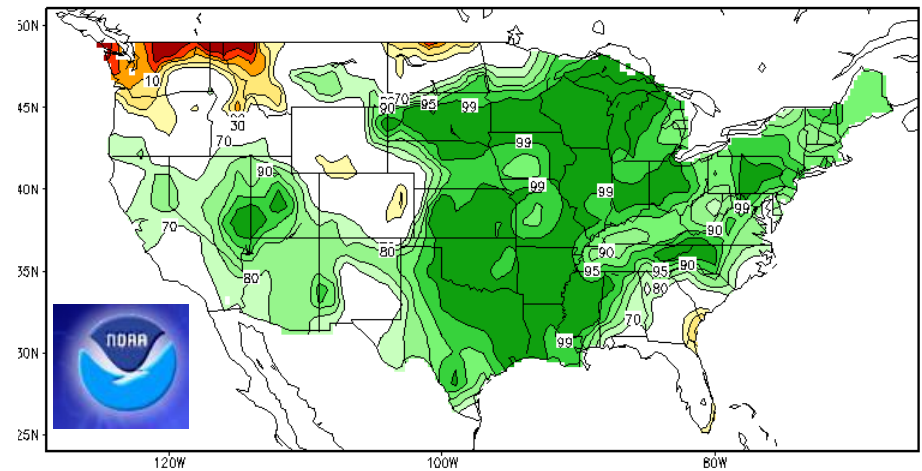
NOAA Regional Climate Centers

Soil Moisture

Calculated Soil Moisture Ranking Percentile
MAY 06, 2020



Calculated Soil Moisture Ranking Percentile
MAY 12, 2019



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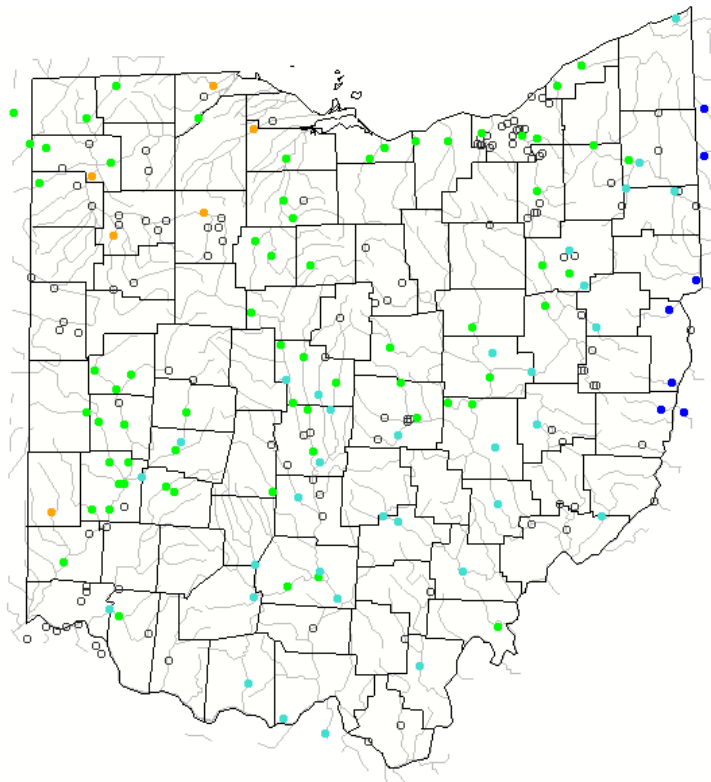
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7-DAY



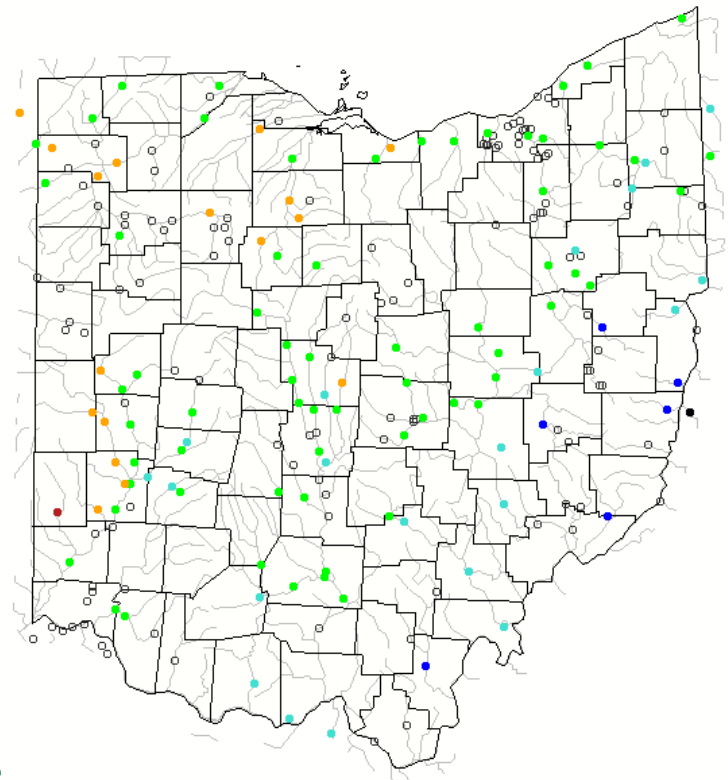
Explanation - Percentile classes

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

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

USGS Streamflow

28-DAY



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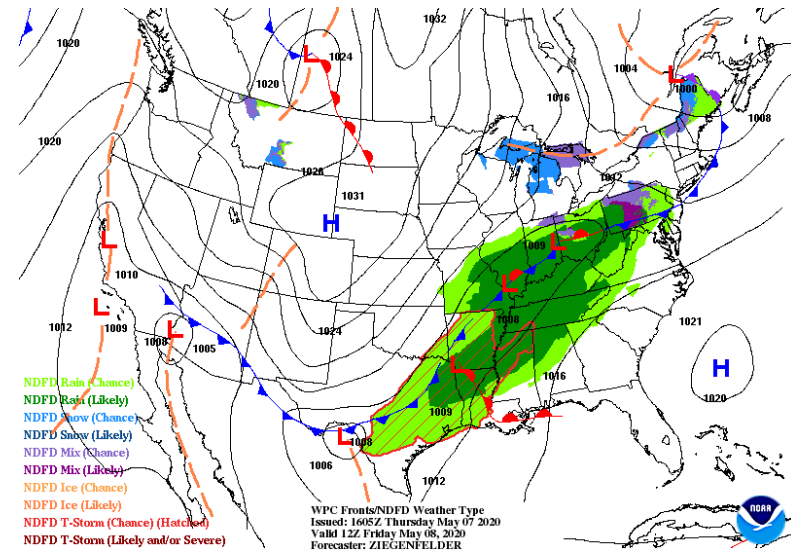
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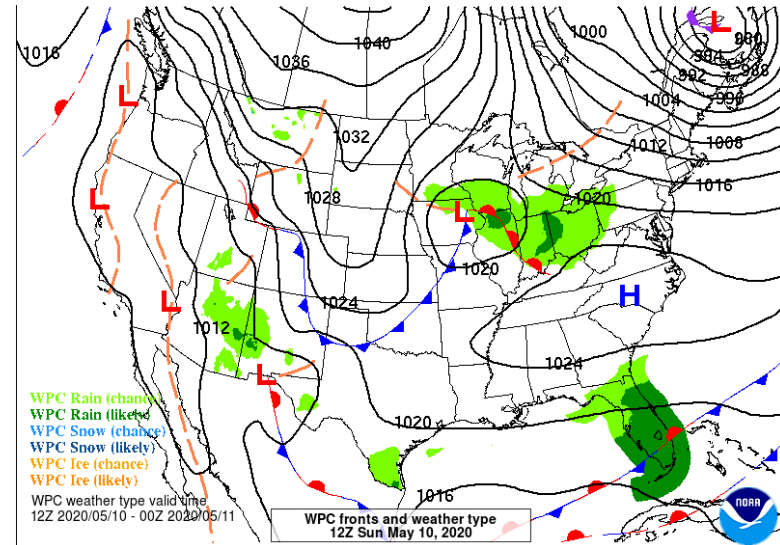


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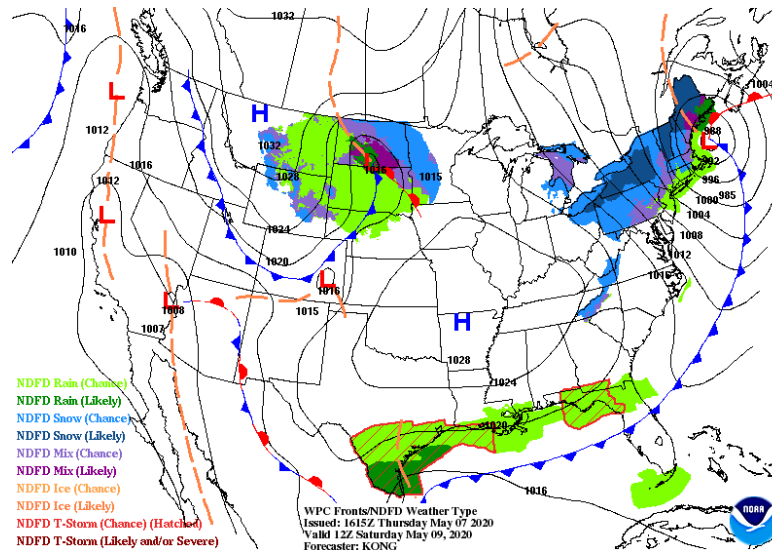
Weather for the Week Ahead



Friday 5/8



Sunday 5/10



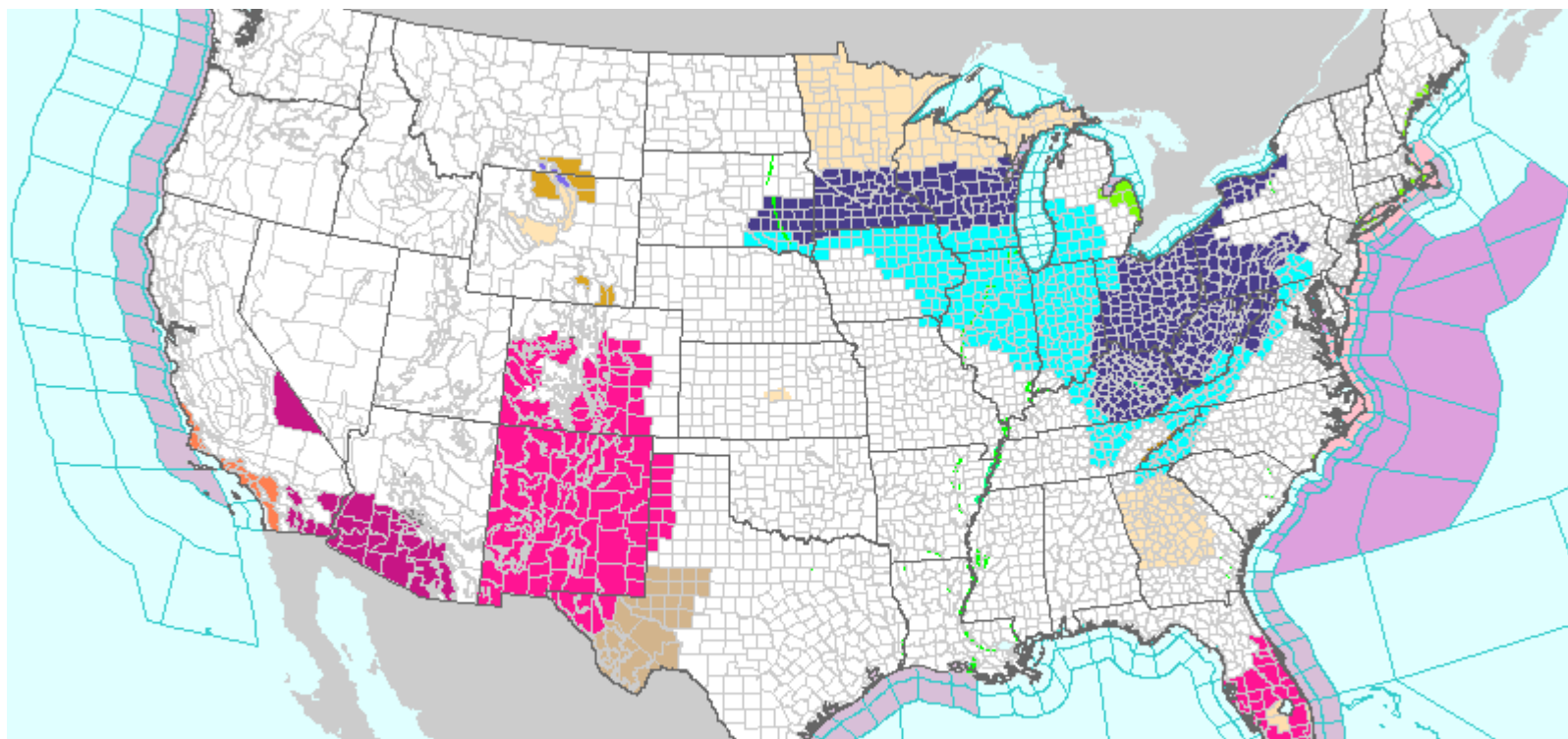
Saturday 5/9



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Freeze Event 5/9



[High Wind Warning](#)
[Flood Warning](#)
[Excessive Heat Warning](#)
[Gale Warning](#)
[Freeze Warning](#)
[Red Flag Warning](#)
[Winter Weather Advisory](#)

[Heat Advisory](#)
[Flood Advisory](#)
[Lakeshore Flood Advisory](#)
[Coastal Flood Advisory](#)
[Small Craft Advisory](#)
[Hazardous Seas Warning](#)
[Wind Advisory](#)

[Rip Current Statement](#)
[Beach Hazards Statement](#)
[Gale Watch](#)
[High Wind Watch](#)
[Freeze Watch](#)
[Fire Weather Watch](#)
[Coastal Flood Statement](#)

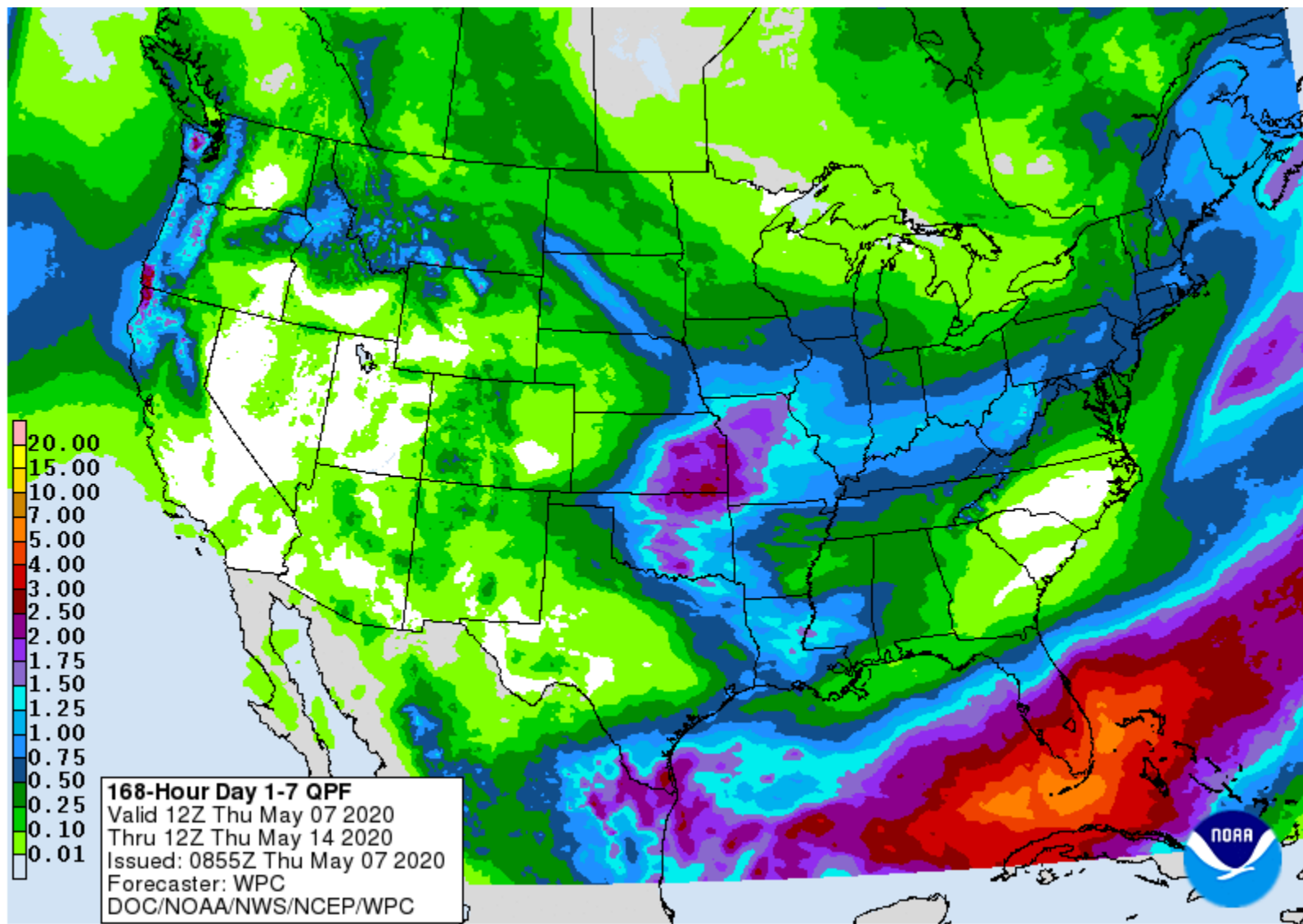
[Special Weather Statement](#)
[Marine Weather Statement](#)
[Air Quality Alert](#)
[Hydrologic Outlook](#)



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Weather for the Week Ahead



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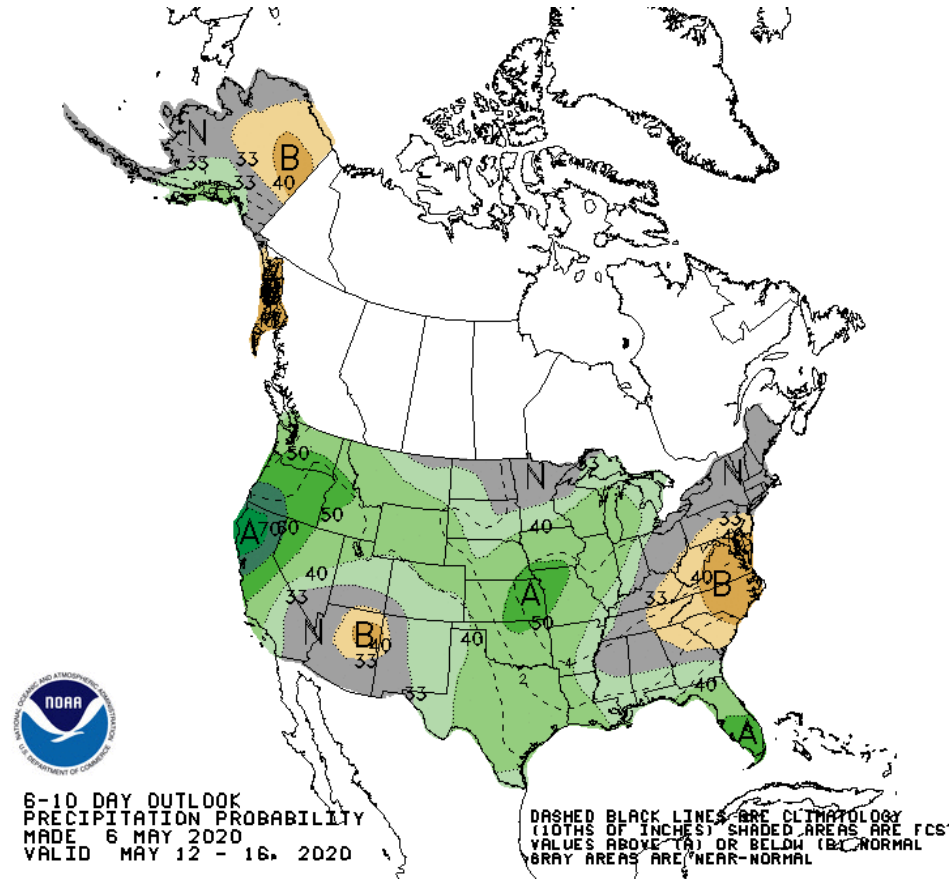
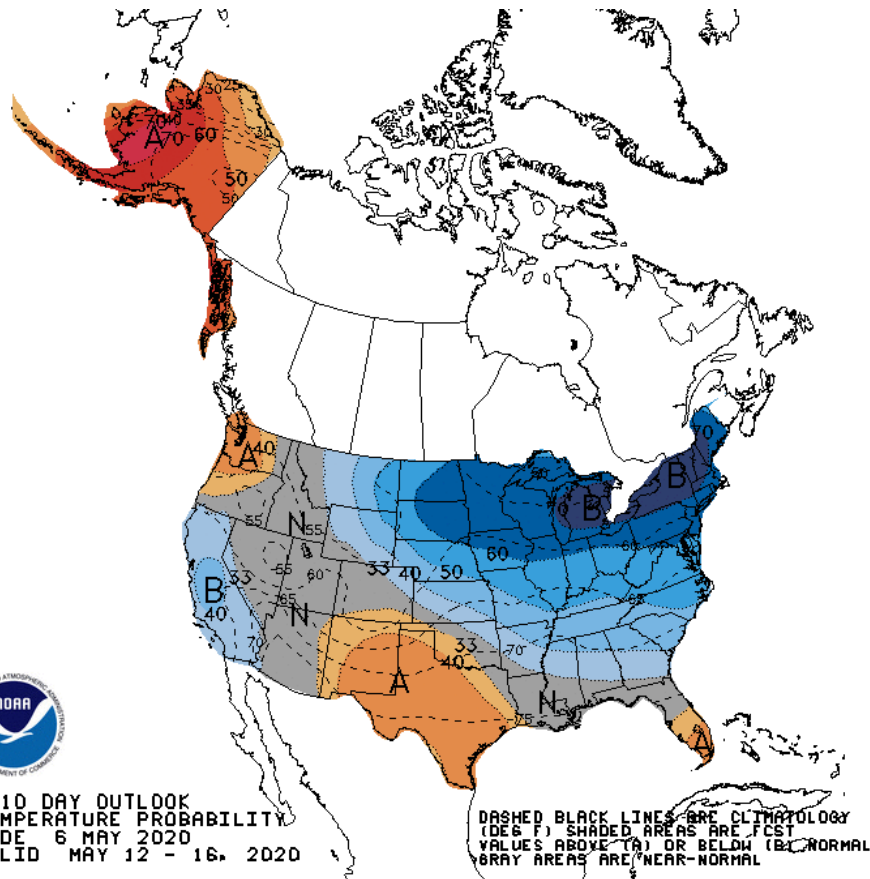
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6-10 Day Outlook



Highs: 66-70°F; Lows: 44-49°F; Precip: 0.85-1.05" (per week)

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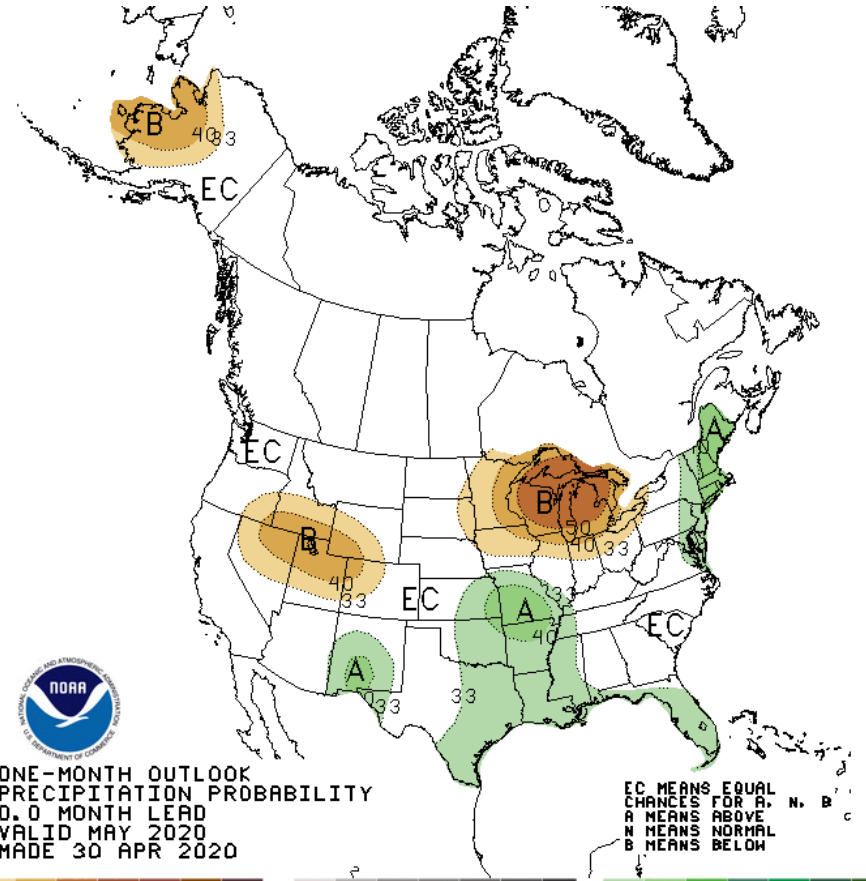
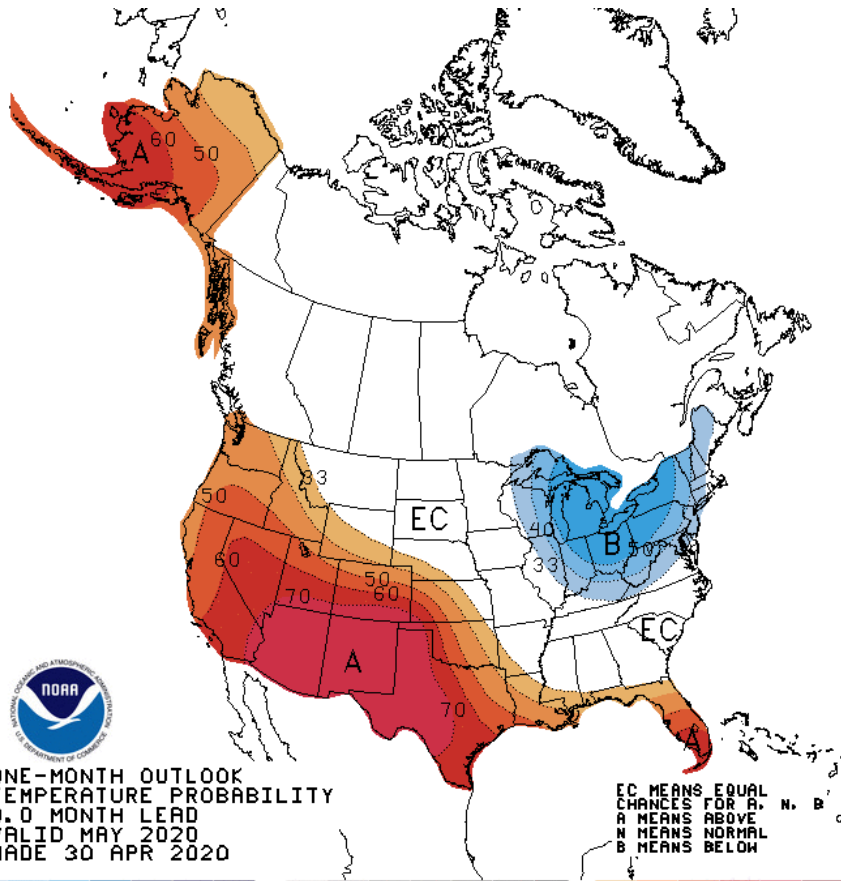
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May Outlook



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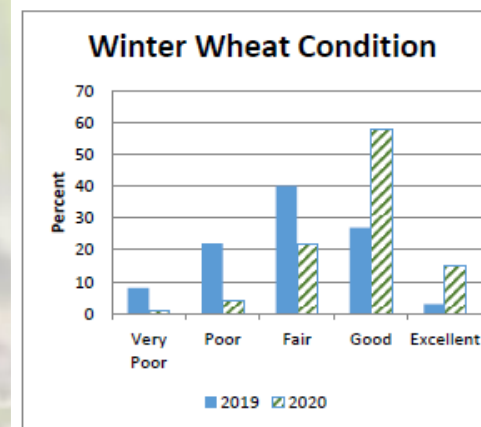
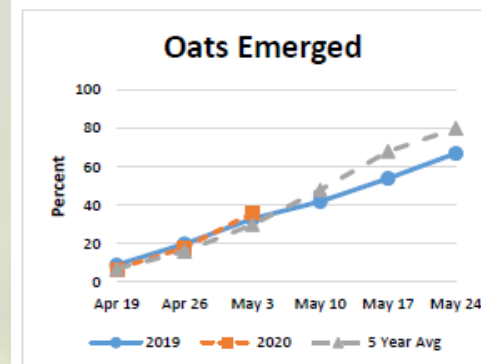
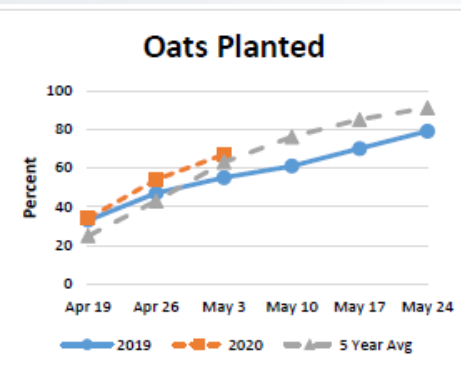
Ag Highlights

- 2.5 suitable days for fieldwork ending May 3
- Applied fertilizer, repaired tiles, applied manure, and planted corn and soybeans
- Corn planted progress was ahead of last year but behind the five-year average while soybean planted progress was ahead of last year and the five-year average.

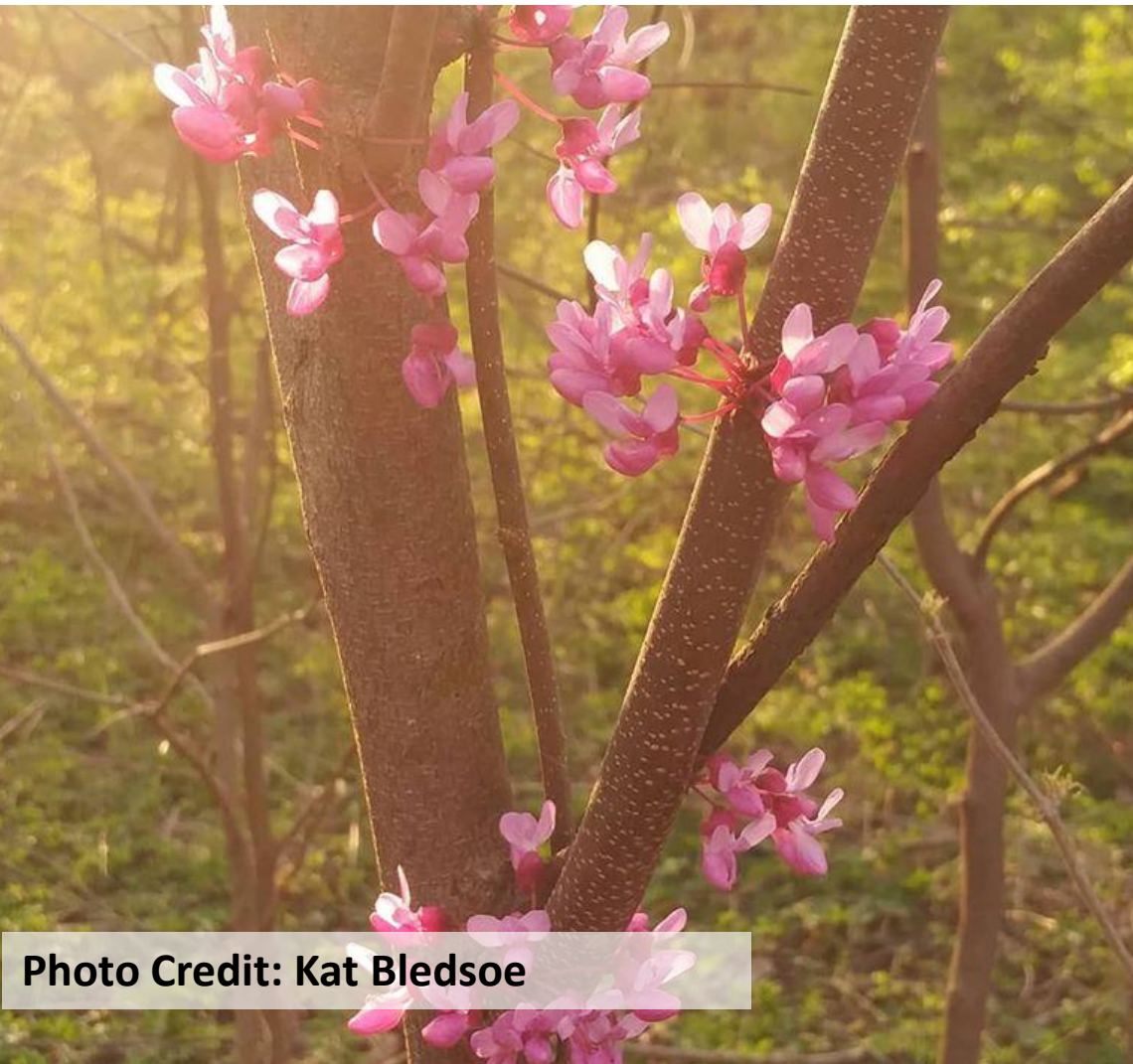
NASS: Cheryl Turner –

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 now present across western Ohio

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

Week Ahead: Freeze event Friday Night/Saturday Morning; Snow possible in NE; Slow warming trend 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