

Hydrologic and Climate Assessment

April 8, 2020



Photo Credit: Beth Scheckelhoff

Aaron B. Wilson

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DEPARTMENT OF EXTENSION - CFAES

BYRD POLAR & CLIMATE RESEARCH CENTER

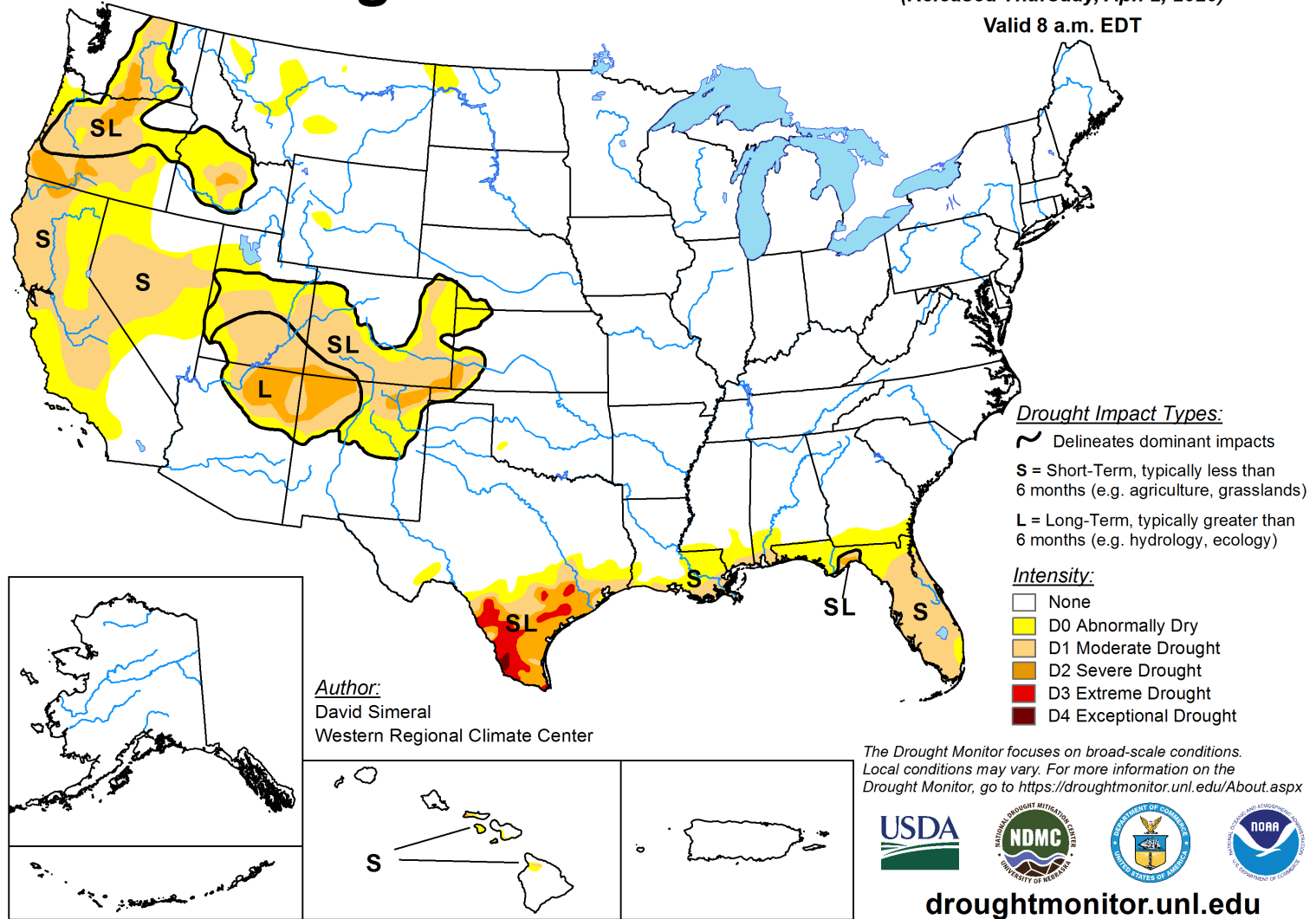
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U.S. Drought Monitor

March 31, 2020
(Released Thursday, Apr. 2, 2020)
Valid 8 a.m. EDT



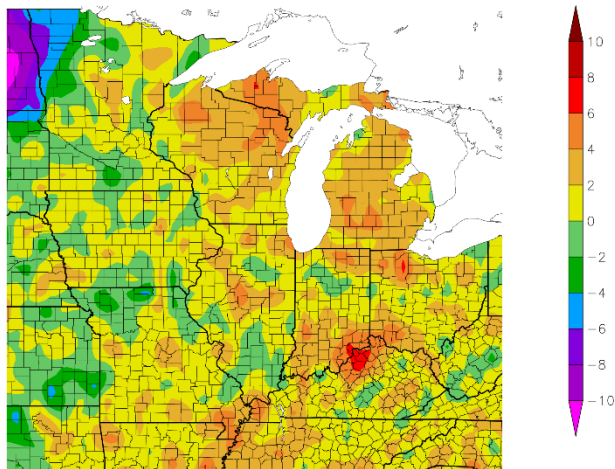
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Temperature Differences Compared to Average (1981-2010)

7-Day

Departure from Normal Temperature (F)
4/1/2020 – 4/7/2020

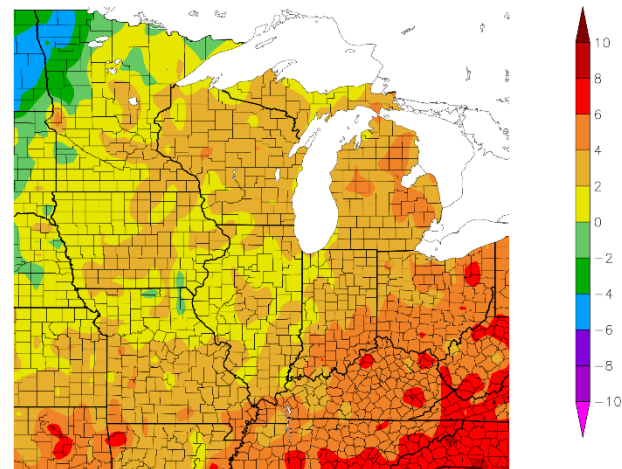


Generated 4/8/2020 at HPRCC using provisional data.

NOAA Regional Climate Centers

30-Day

Departure from Normal Temperature (F)
3/9/2020 – 4/7/2020

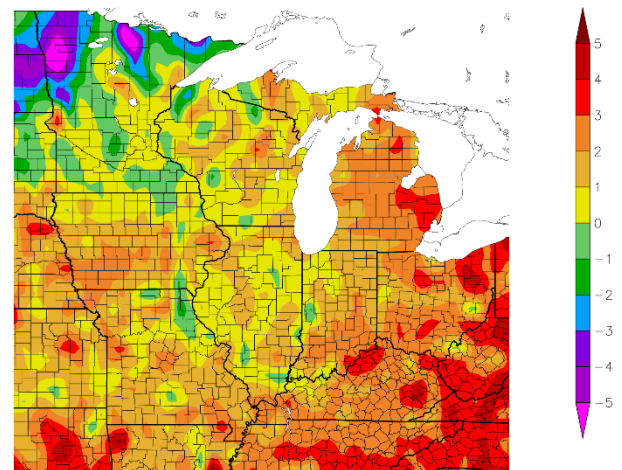


Generated 4/8/2020 at HPRCC using provisional data.

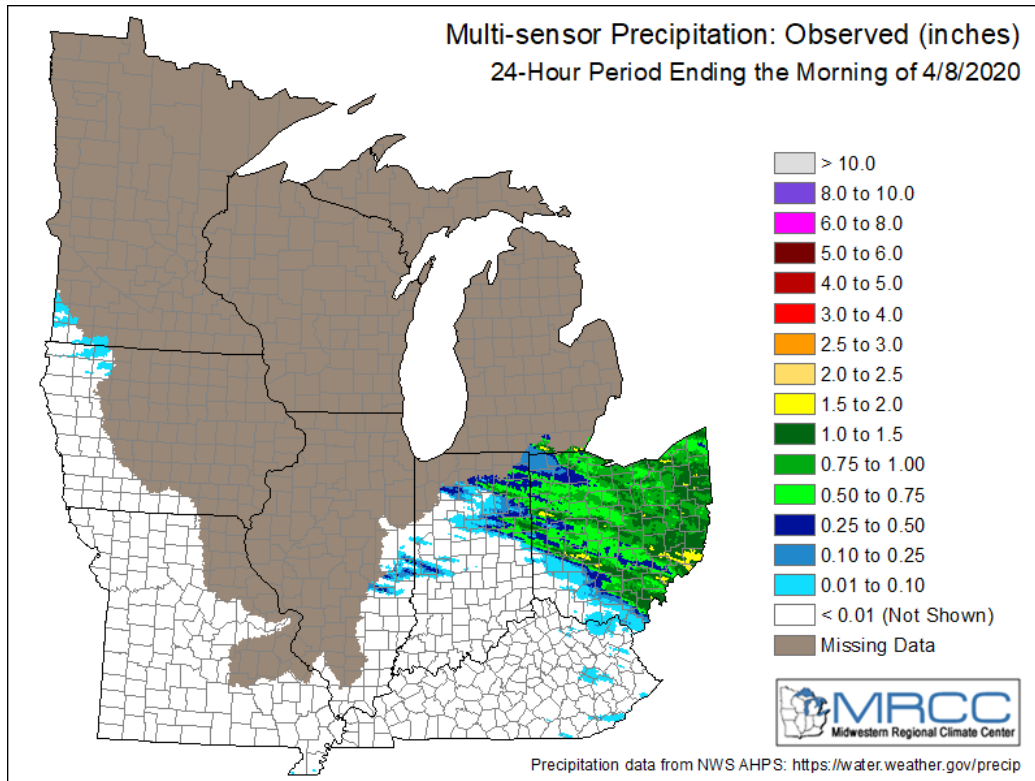
NOAA Regional Climate Centers

60-Day

Departure from Normal Temperature (F)
2/8/2020 – 4/7/2020

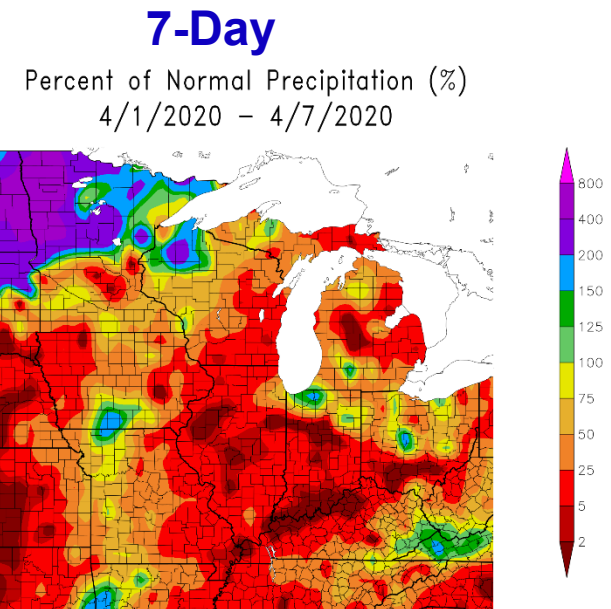


This Week's Precipitation



Generated 4/8/2020 at HPRCC using provisional data.

NOAA Regional Climate Centers



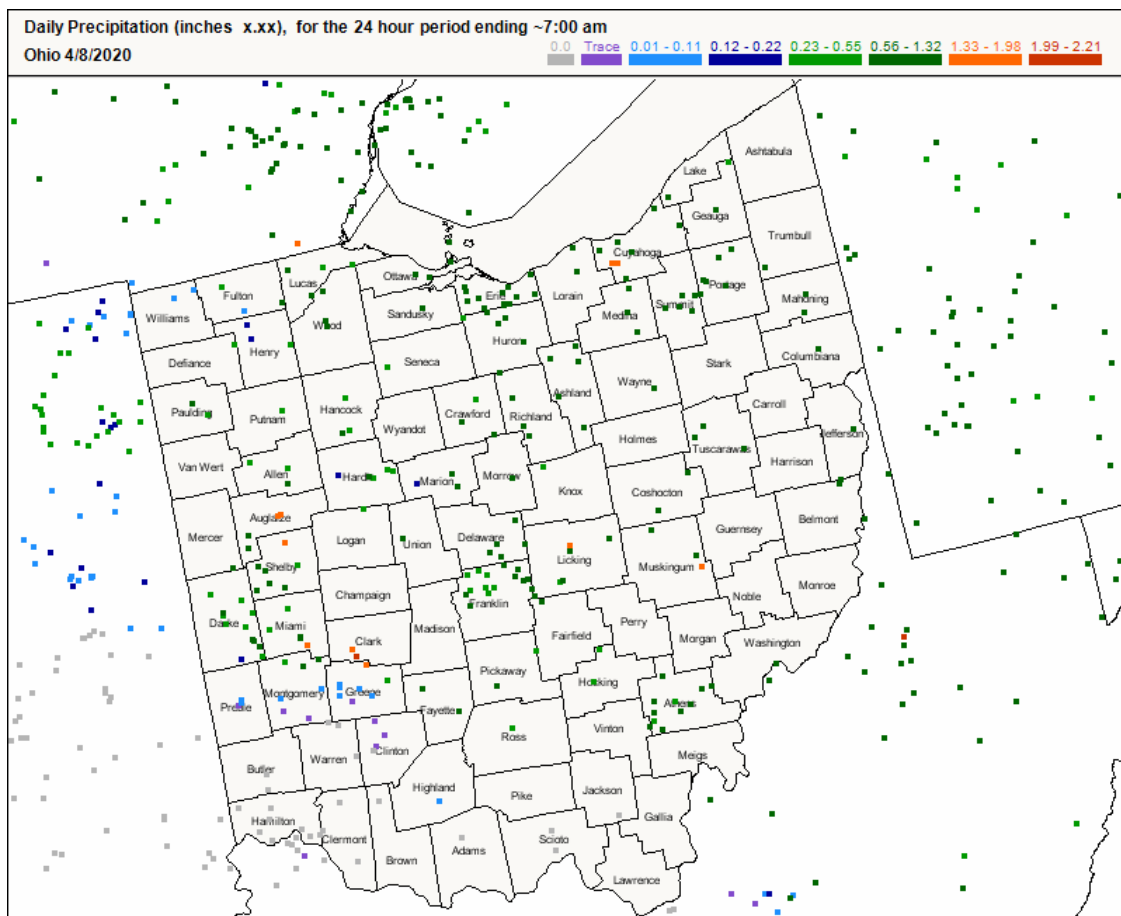
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CoCoRaHS

Top 10 Wettest



<https://cocorahs.org/>

CoCoRaHS Name	Total Precip (inches)
Sunbury 5.7 ESE	19.11
Reynoldsburg 1.1 ENE	18.80
Kirkersville 3.3 N	17.96
Granville 4.0 N	17.91
Granville 5.6 N	17.14
Westerville 0.7 N	17.08
Uhrichsville 0.7 N	17.02
Westerville 4.3 ESE	16.97
Hanoverton 0.4 ENE	16.92
Westerville 3.4 N	16.90



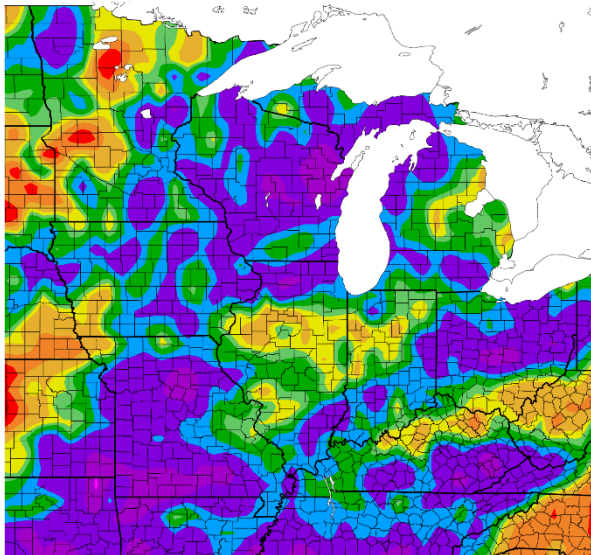
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Precipitation Differences Compared to Average (1981-2010)

30-Day

Percent of Normal Precipitation (%)
3/9/2020 – 4/7/2020

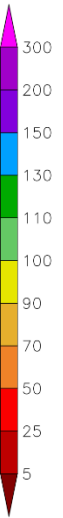
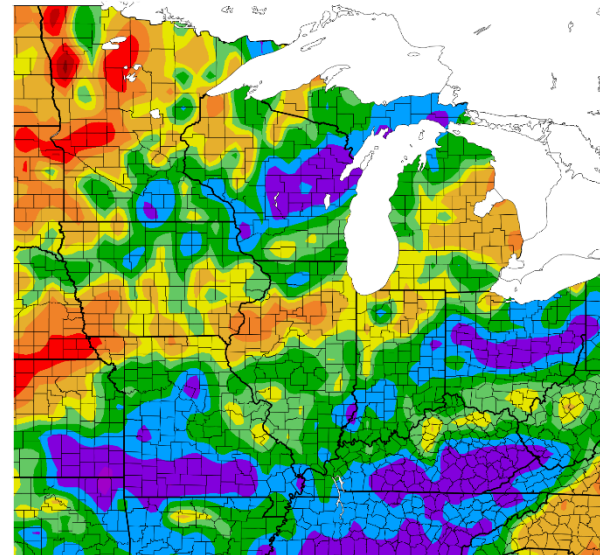


Generated 4/8/2020 at HPRCC using provisional data.

NOAA Regional Climate Centers

60-Day

Percent of Normal Precipitation (%)
2/8/2020 – 4/7/2020

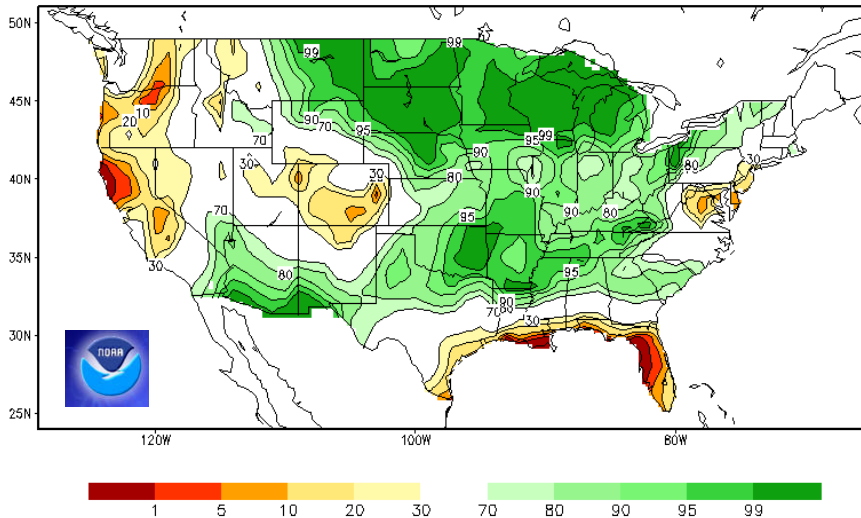


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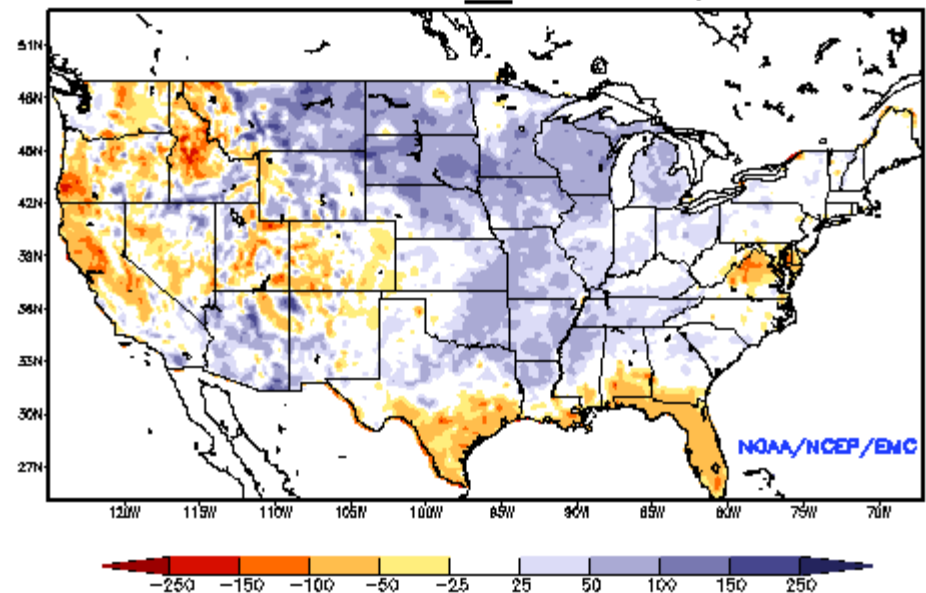
NOAA Regional Climate Centers

Soil Moisture

Calculated Soil Moisture Ranking Percentile
APR 07, 2020



Ensemble-Mean - Current Total Column Soil Moisture Anomaly (mm)
NCEP NLDAS Products Valid: MAR 31, 2020



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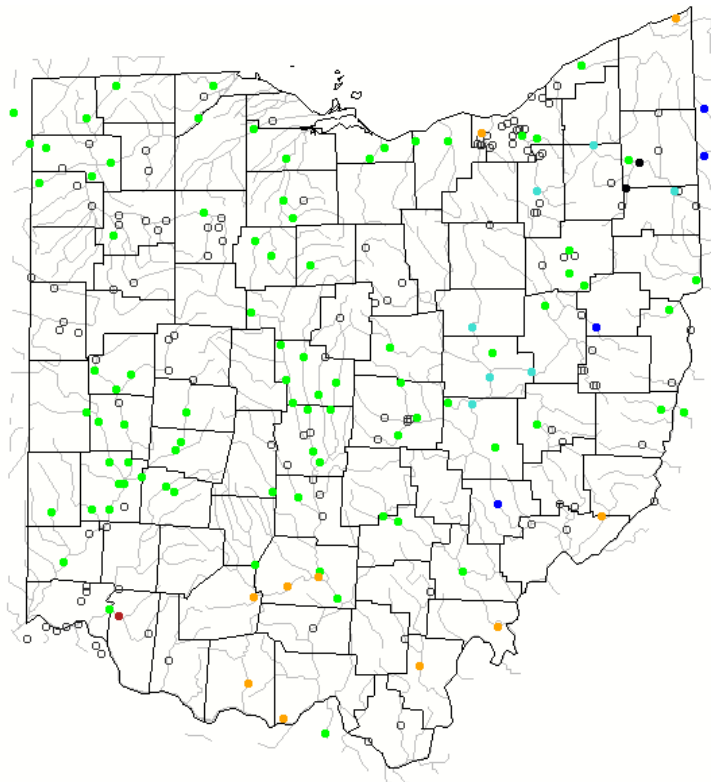
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7-DAY



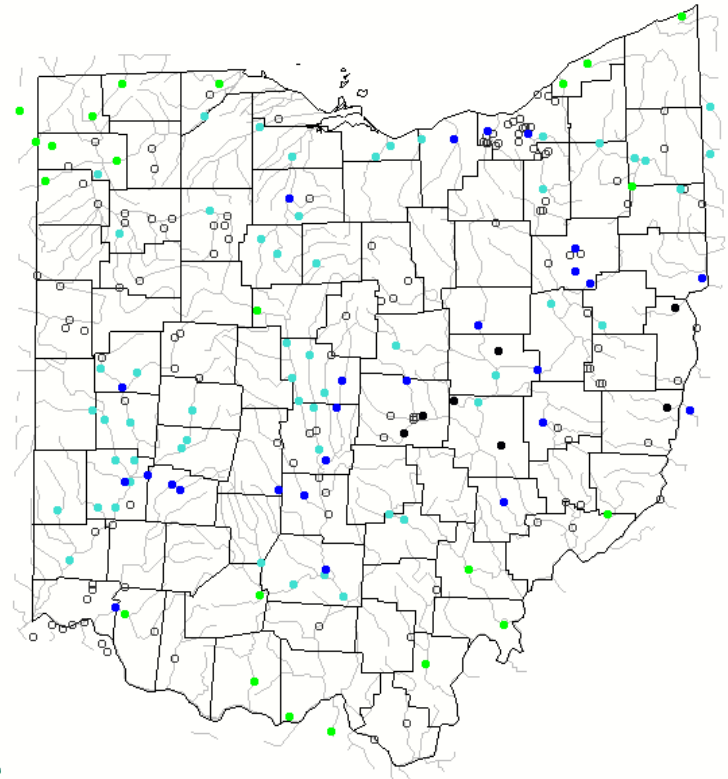
Explanation - Percentile classes

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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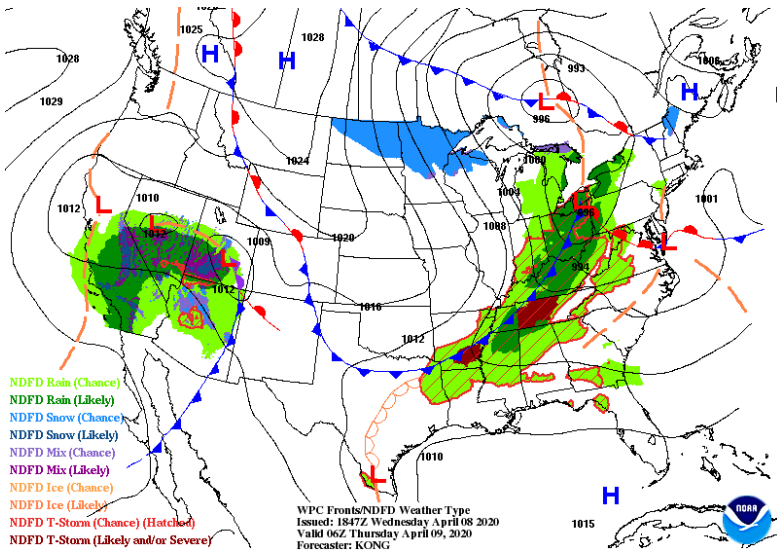
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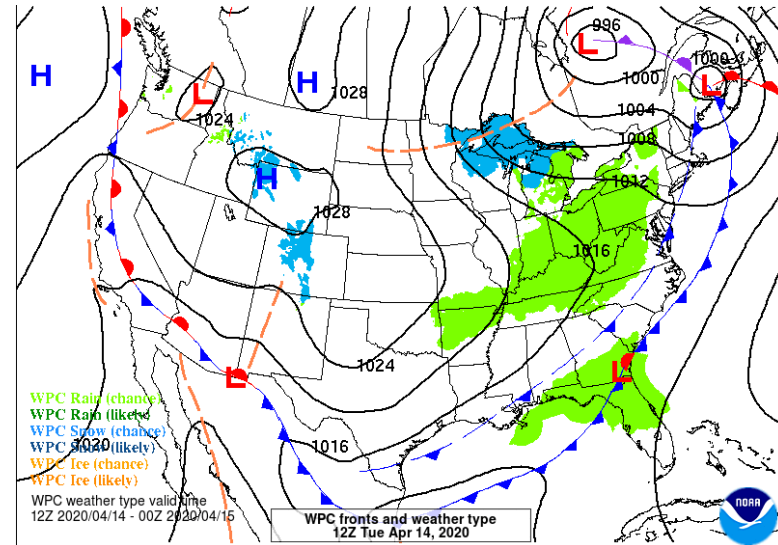


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Weather for the Week Ahead

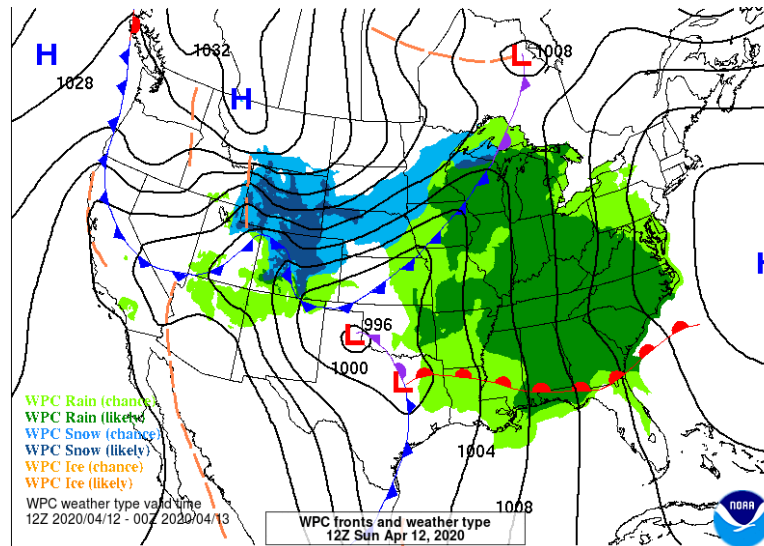


Wednesday Night



Tuesday

Sunday



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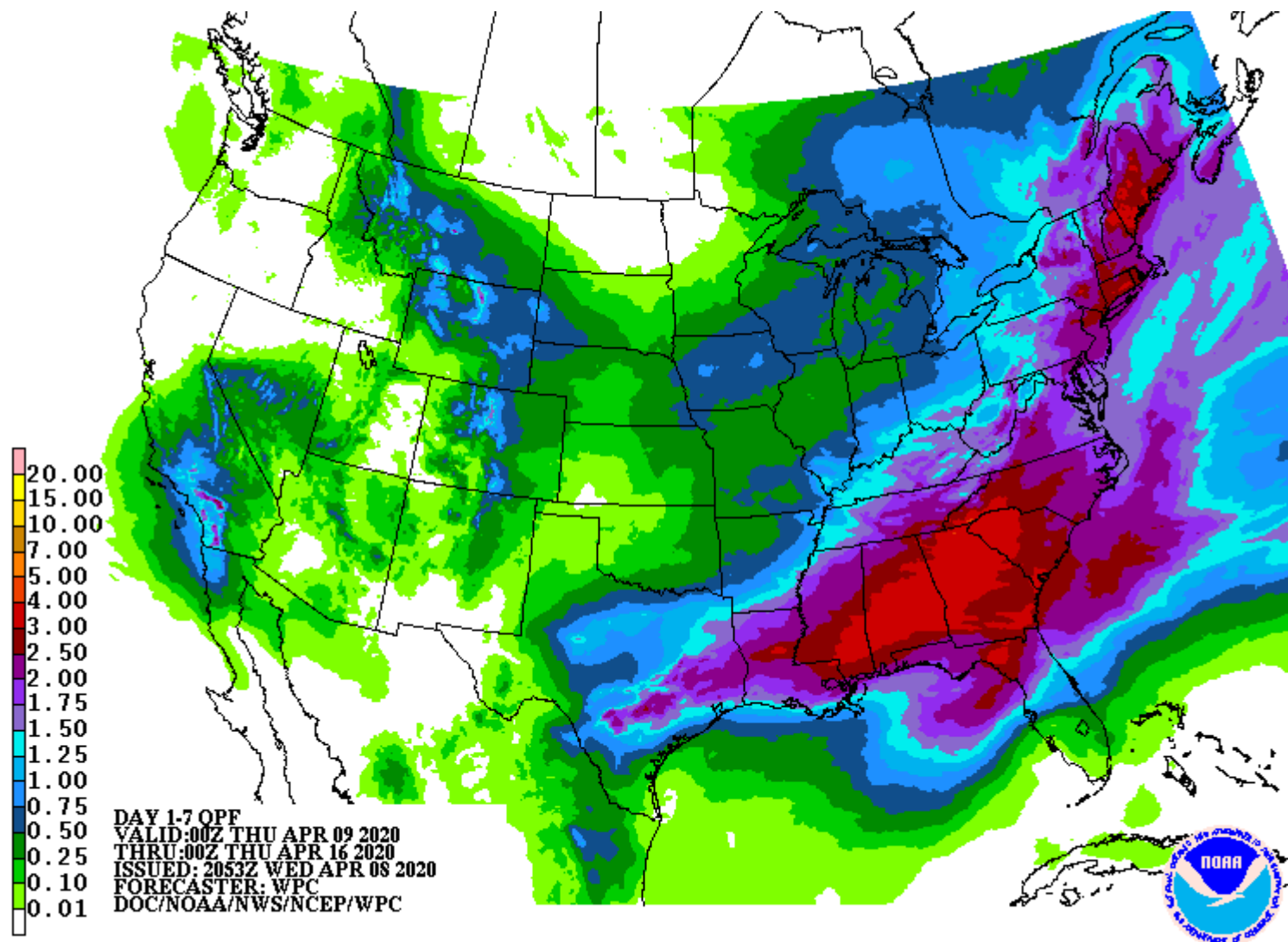
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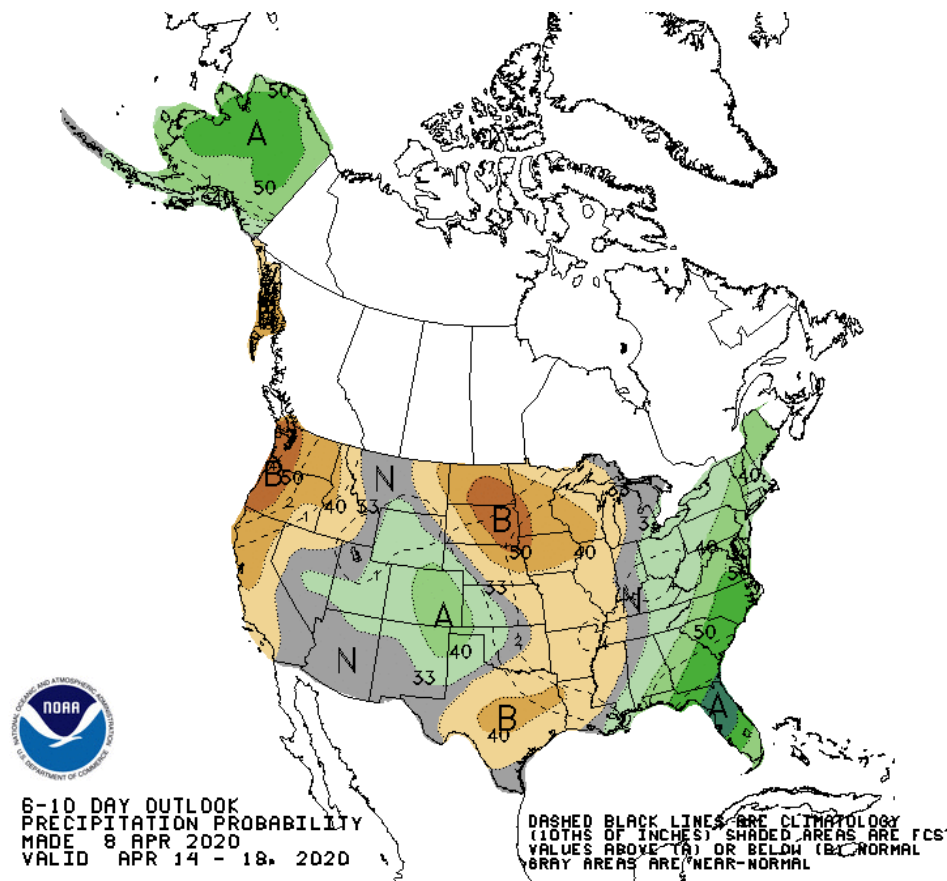
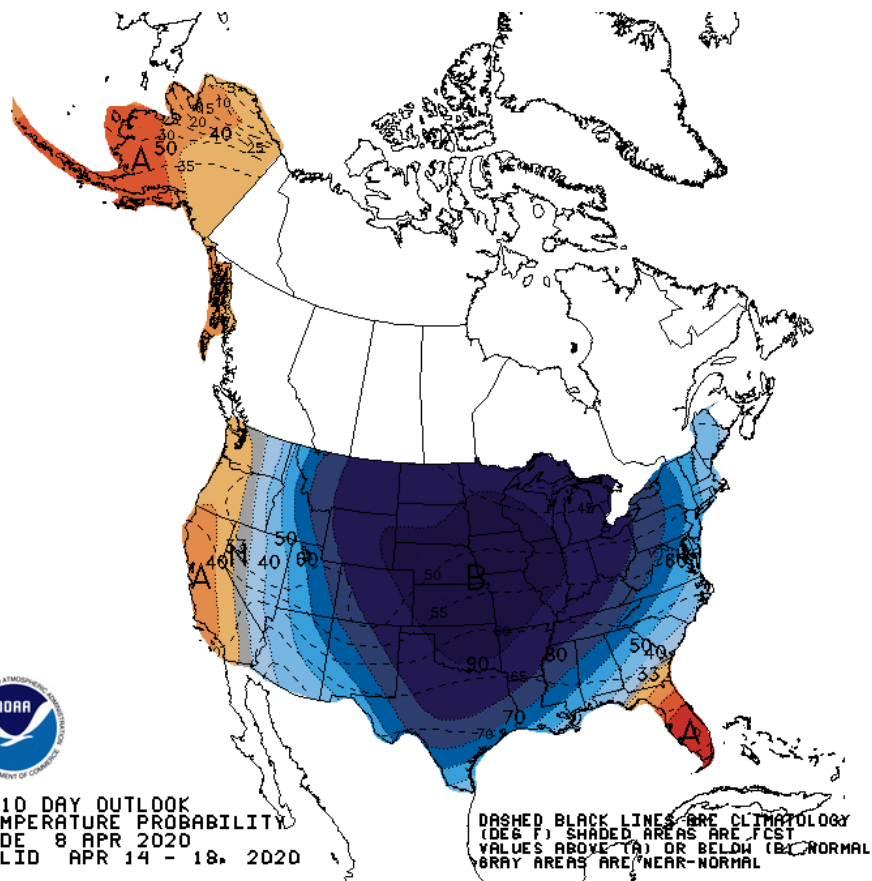
Weather for the Week Ahead



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6-10 Day Outlook



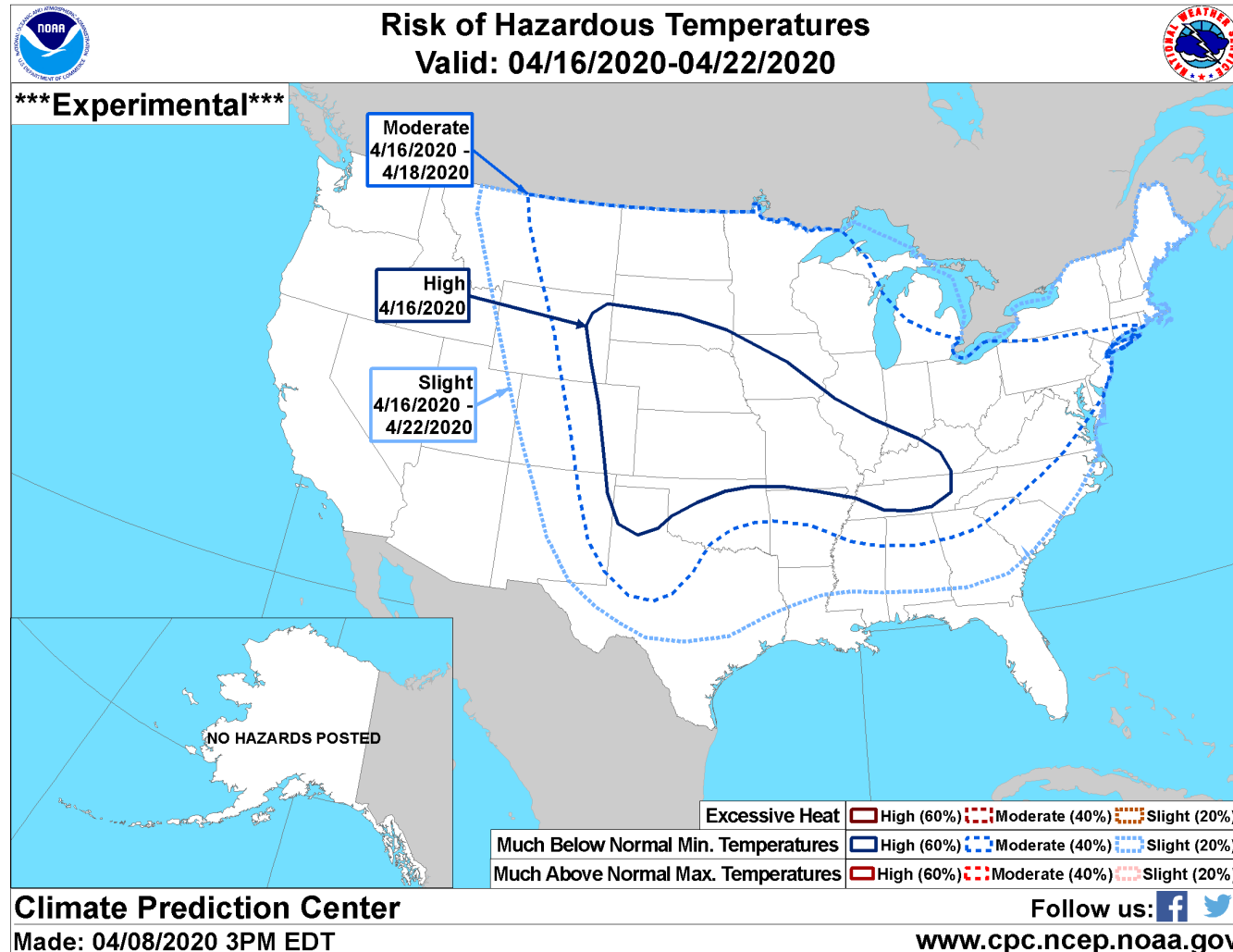
Highs: 57-64°F; Lows: 37-43°F; Precip: 0.85-1.05" (per week)



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Moderate of Much Below Normal Minimum Temperatures



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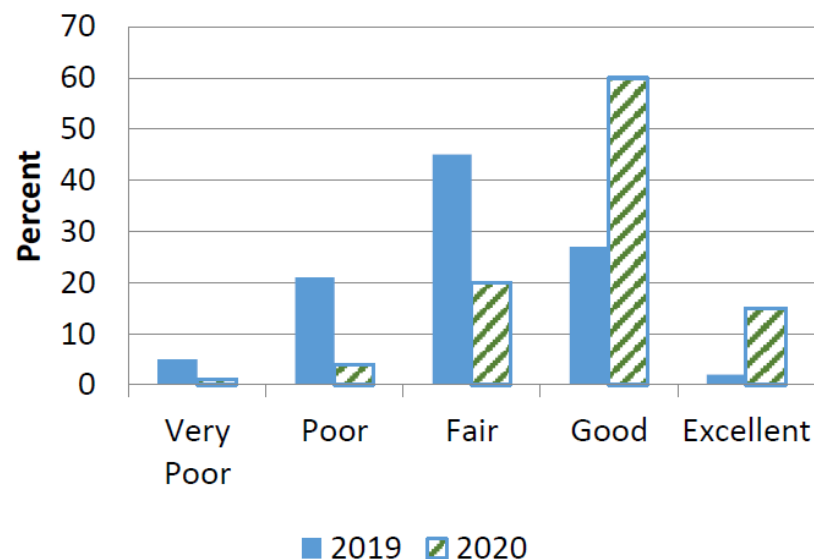


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Ag Highlights

- Starting off the season soggy with limited field work: 1.8 suitable days
- Equipment preparation and seed/fertilizer hauling
- Top dressing wheat and manure spreading

Winter Wheat Condition



NASS: Cheryl Turner –

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



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Summary of Conditions



Photo Credit: Kat Bledsoe

Drought Monitor: None

Climate Recap: Drier week this past week as expected

Ahead: Much cooler and damp weather over the next couple of weeks



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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