

Hydrologic and Climate Assessment

March 23, 2020



Photo Credit: Cathann Kress



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Aaron B. Wilson

STATE CLIMATE OFFICE OF OHIO (SCOO)

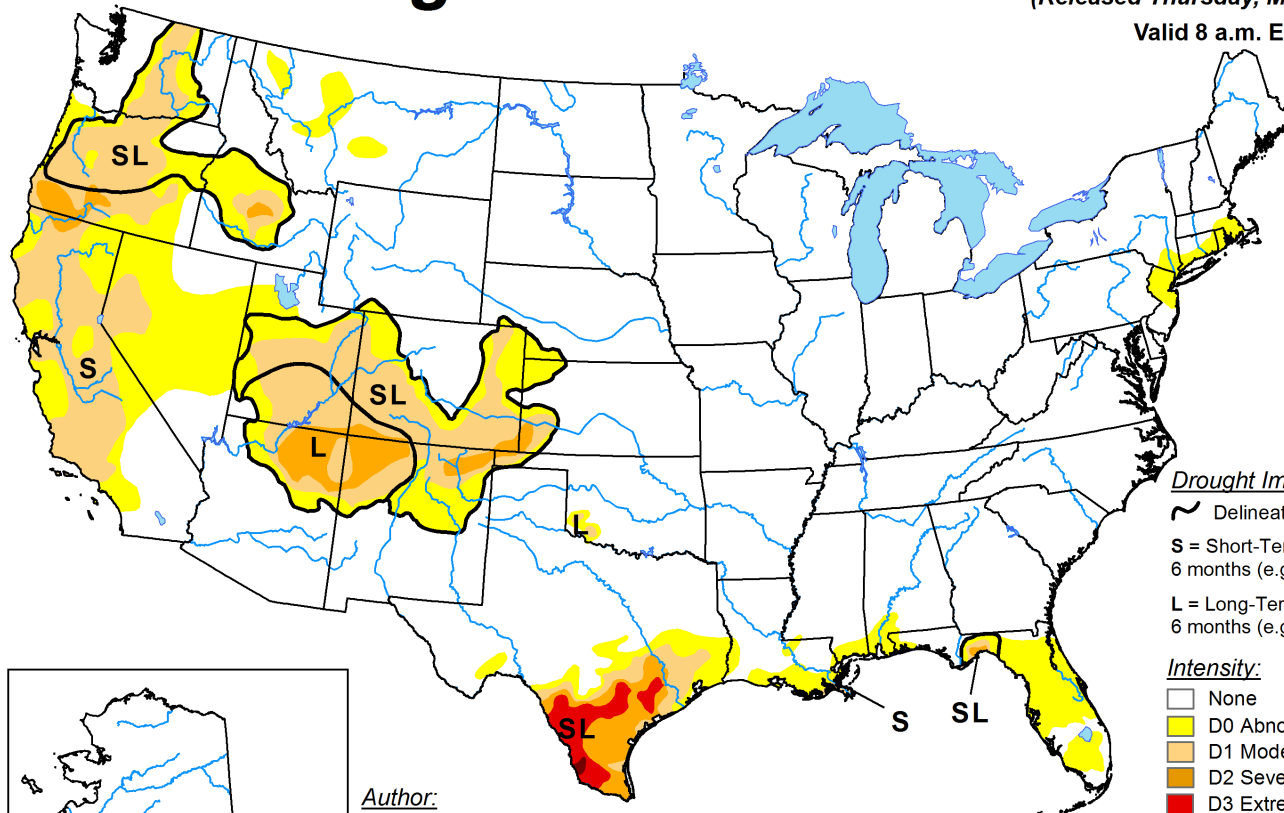
DEPARTMENT OF EXTENSION - CFAES

BYRD POLAR & CLIMATE RESEARCH CENTER

DEPARTMENT OF GEOGRAPHY

U.S. Drought Monitor

March 17, 2020
 (Released Thursday, Mar. 19, 2020)
 Valid 8 a.m. EDT



Drought Impact Types:

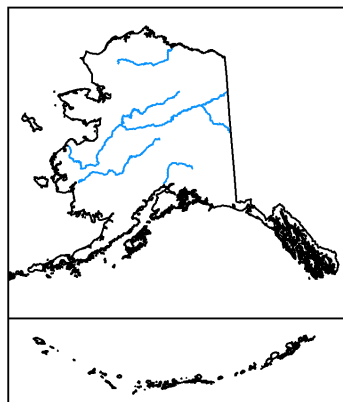
- ~ Delineates dominant impacts
- S = Short-Term, typically less than 6 months (e.g. agriculture, grasslands)
- L = Long-Term, typically greater than 6 months (e.g. hydrology, ecology)

Intensity:

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

Author:
 Deborah Bathke
 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>

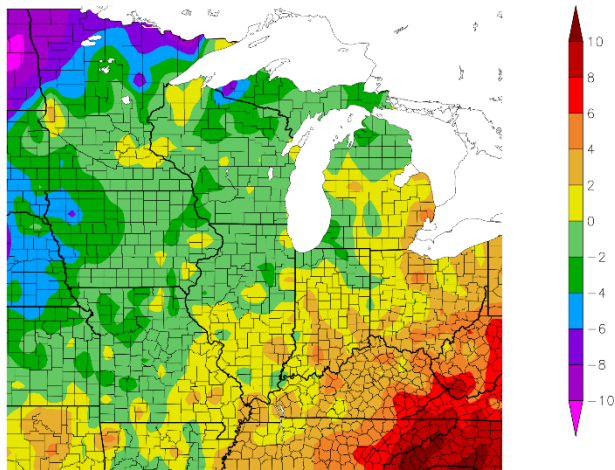


droughtmonitor.unl.edu

Temperature Differences Compared to Average (1981-2010)

7-Day

Departure from Normal Temperature (F)
3/16/2020 – 3/22/2020

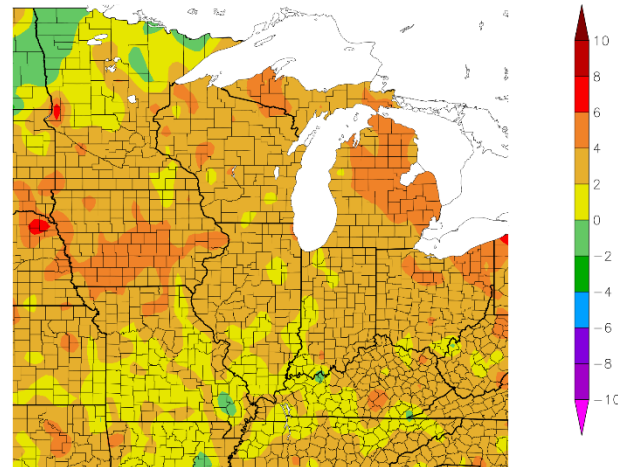


Generated 3/23/2020 at HPRCC using provisional data.

NOAA Regional Climate Centers

30-Day

Departure from Normal Temperature (F)
2/21/2020 – 3/21/2020

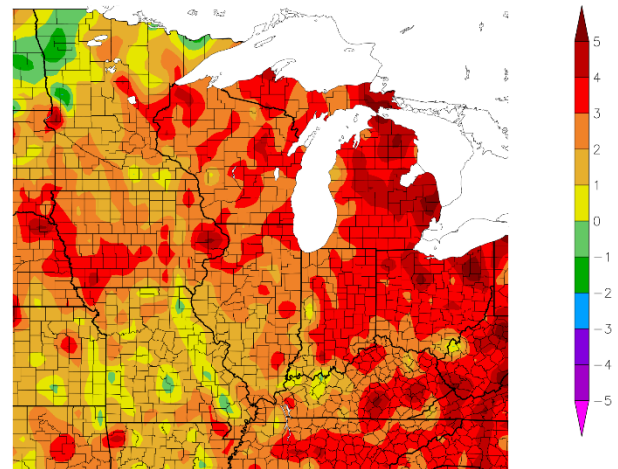


Generated 3/22/2020 at HPRCC using provisional data.

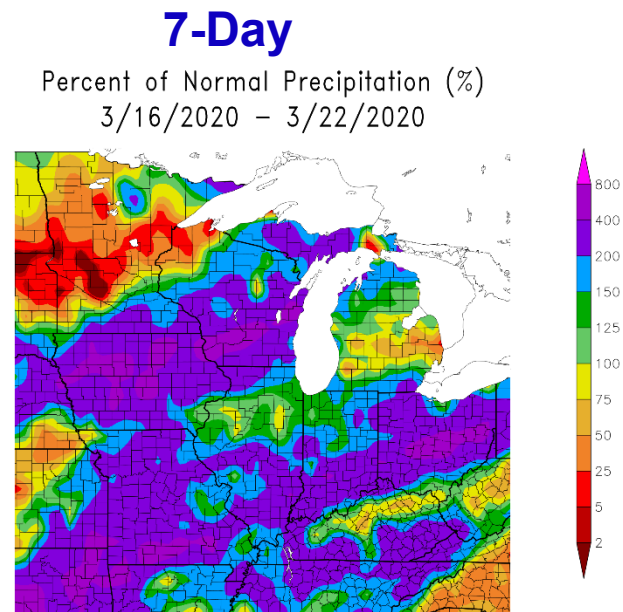
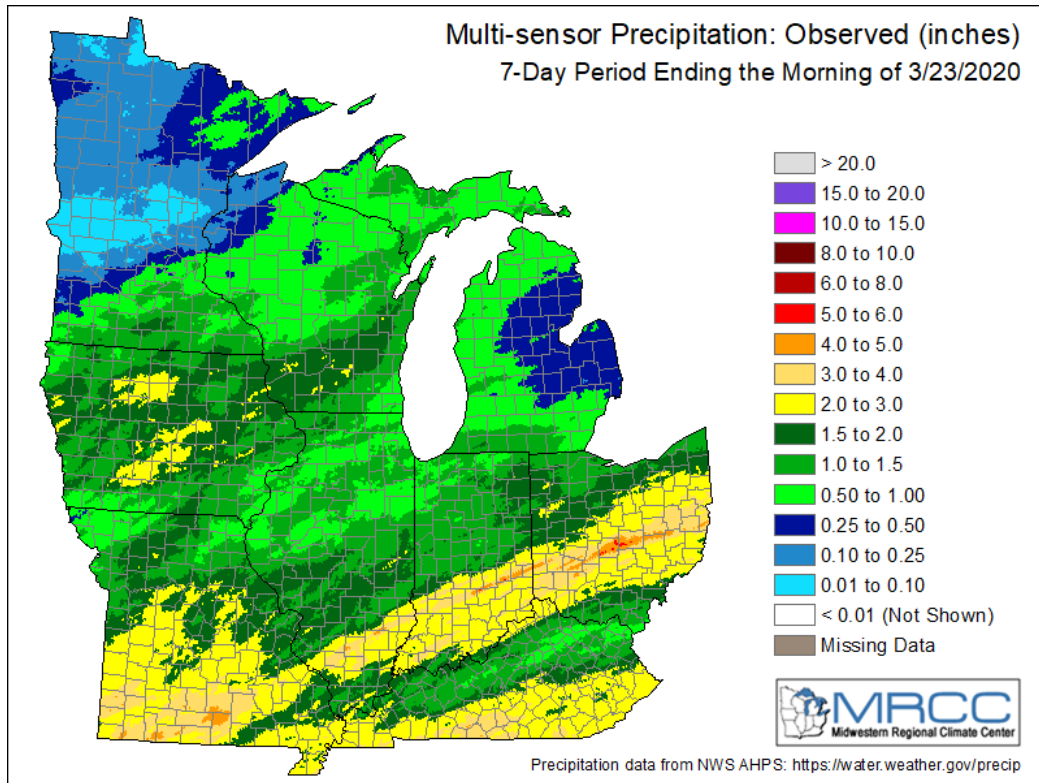
NOAA Regional Climate Centers

60-Day

Departure from Normal Temperature (F)
1/23/2020 – 3/22/2020



This Week's Precipitation



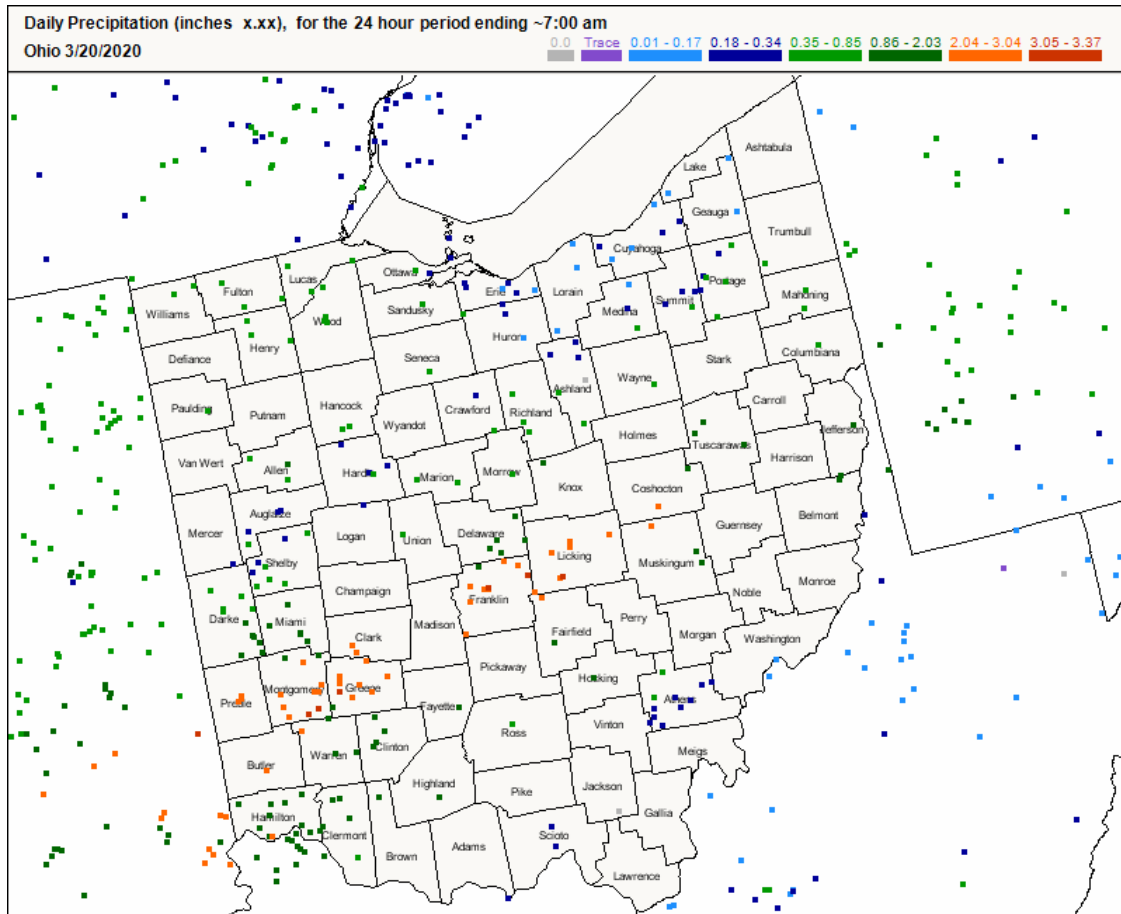
Generated 3/23/2020 at HPRCC using provisional data.

NOAA Regional Climate Centers



CoCoRaHS

Top 10 Wettest



CoCoRaHS Name	Total Precip (inches)
Reynoldsburg 1.1 ENE	16.17
Kirkersville 3.3 N	15.66
Granville 4.0 N	14.64
Pataskala 3.2 E	14.51
New Albany 2.8 SSE	14.21
Westerville 4.3 ESE	14.21
Columbus 8.2 NE	14.14
Miamisburg 1.5 SE	14.07
Sunbury 5.7 ESE	14.03
Granville 5.6 N	13.81

<https://cocorahs.org/>



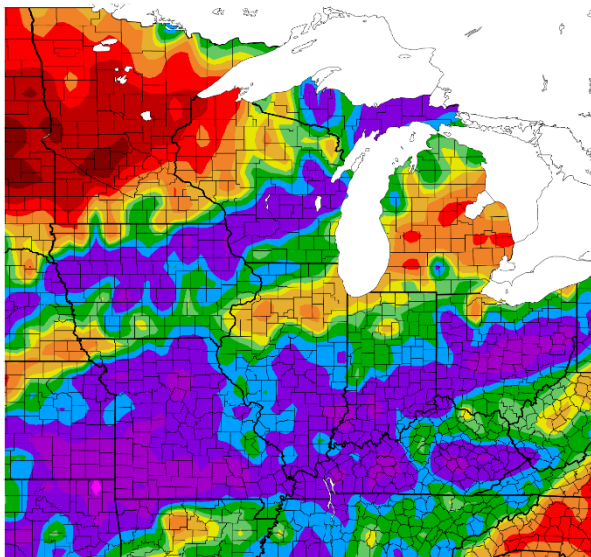
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Precipitation Differences Compared to Average (1981-2010)

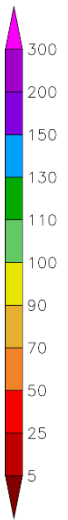
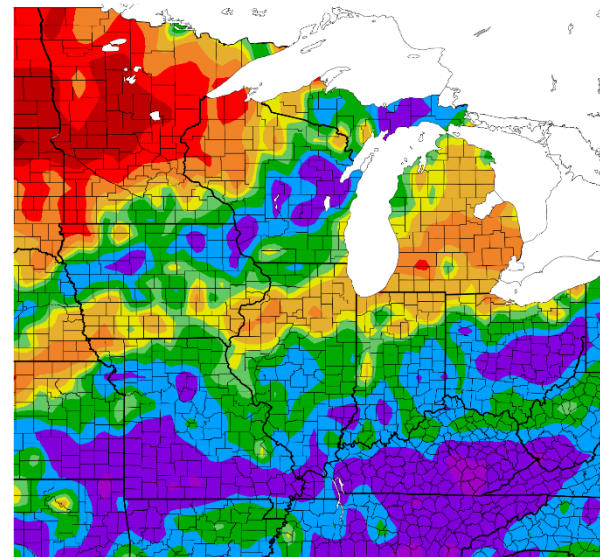
30-Day

Percent of Normal Precipitation (%)
2/21/2020 – 3/21/2020



60-Day

Percent of Normal Precipitation (%)
1/23/2020 – 3/22/2020



Generated 3/22/2020 at HPRCC using provisional data.

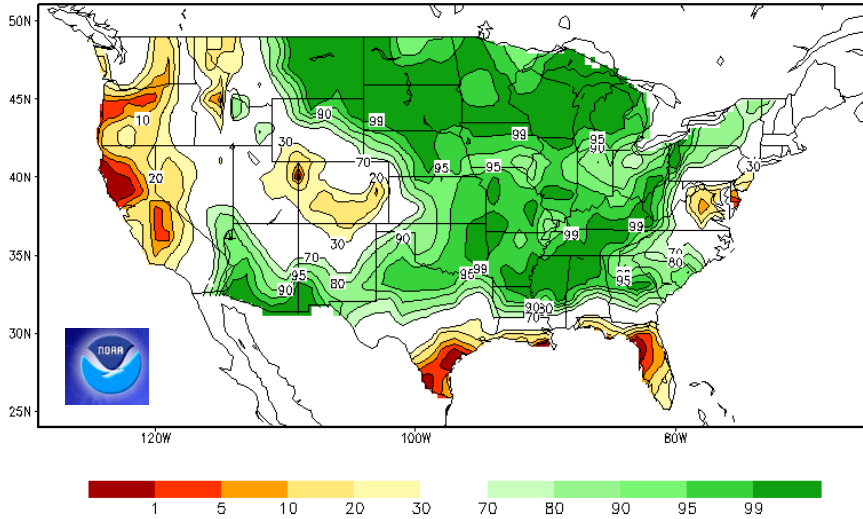
NOAA Regional Climate Centers

Generated 3/23/2020 at HPRCC using provisional data.

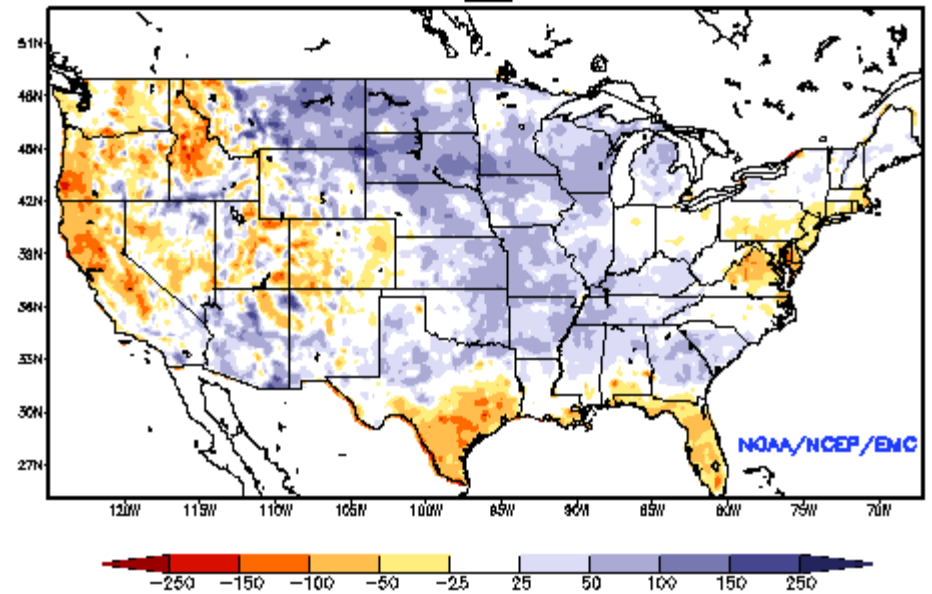
NOAA Regional Climate Centers

Soil Moisture

Calculated Soil Moisture Ranking Percentile
MAR 22, 2020



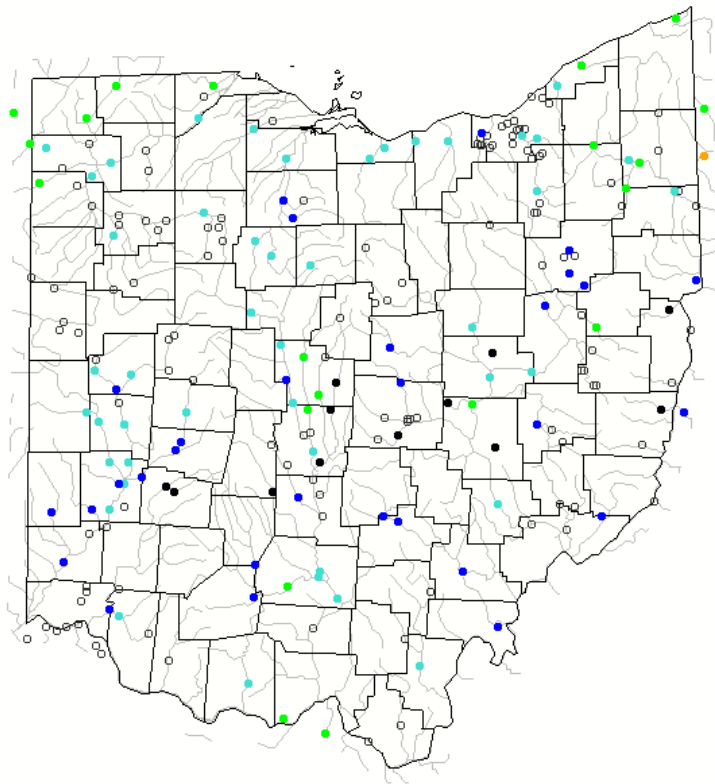
Ensemble-Mean - Current Total Column Soil Moisture Anomaly (mm)
NCEP NLDAS Products Valid: MAR 18, 2020



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7-DAY



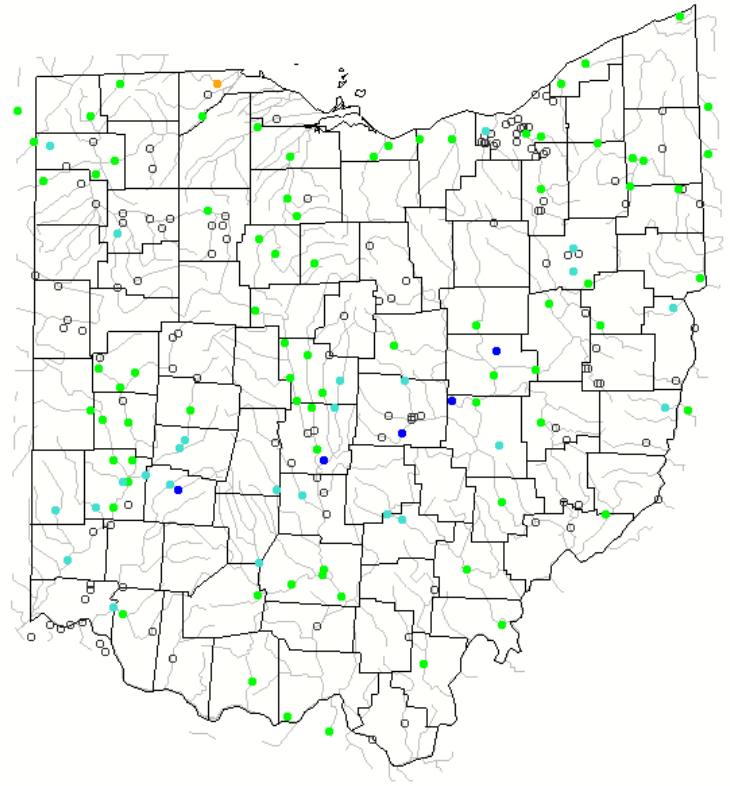
Explanation - Percentile classes

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

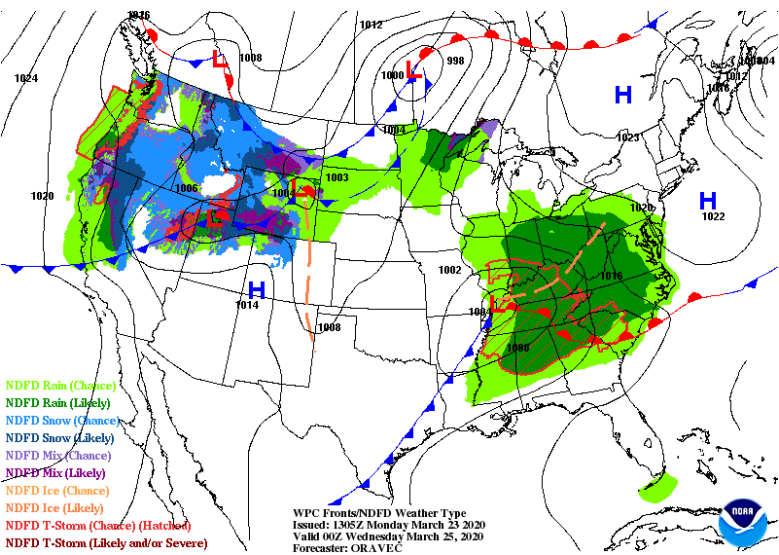
Sunday, March 22, 2020



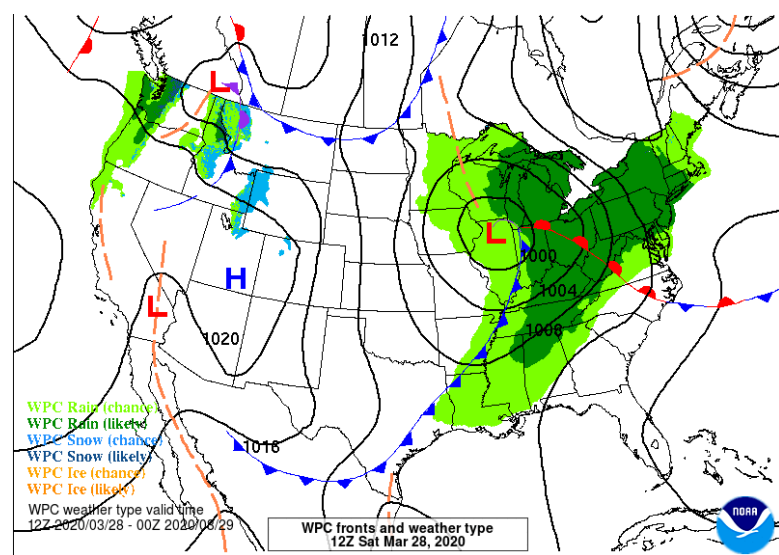
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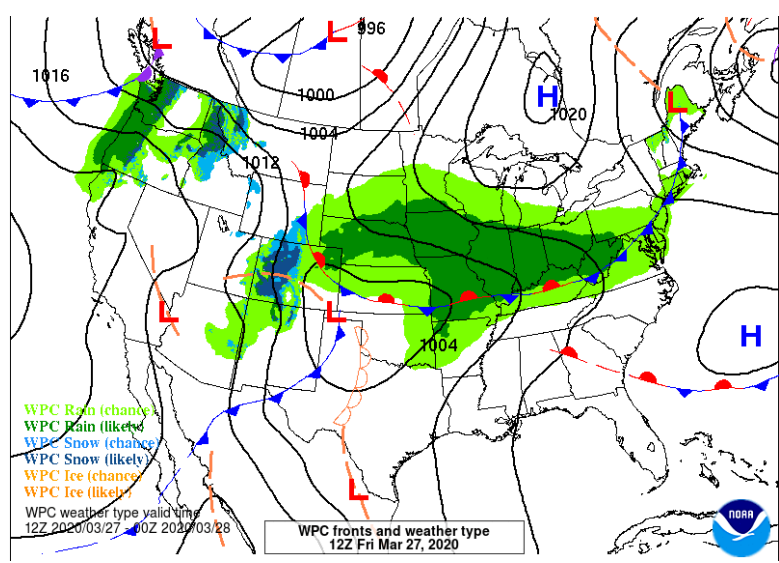
Weather for the Week Ahead



Tuesday



Saturday



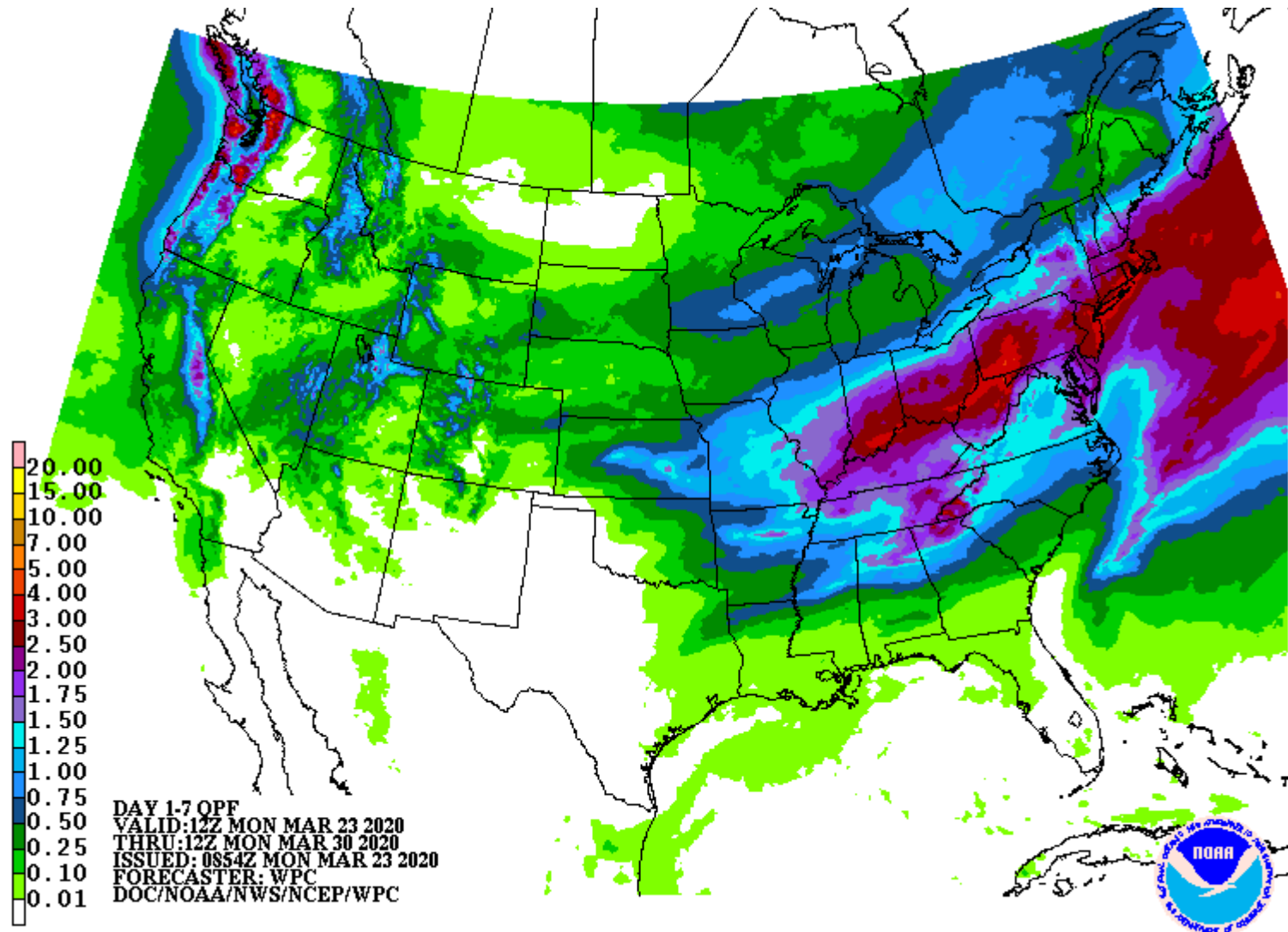
Friday



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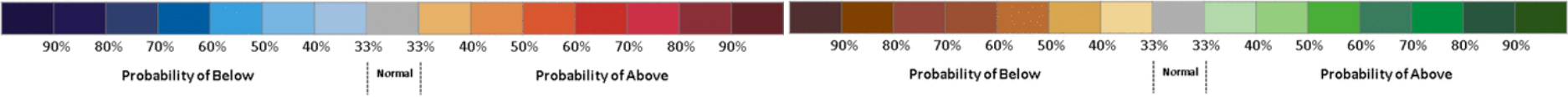
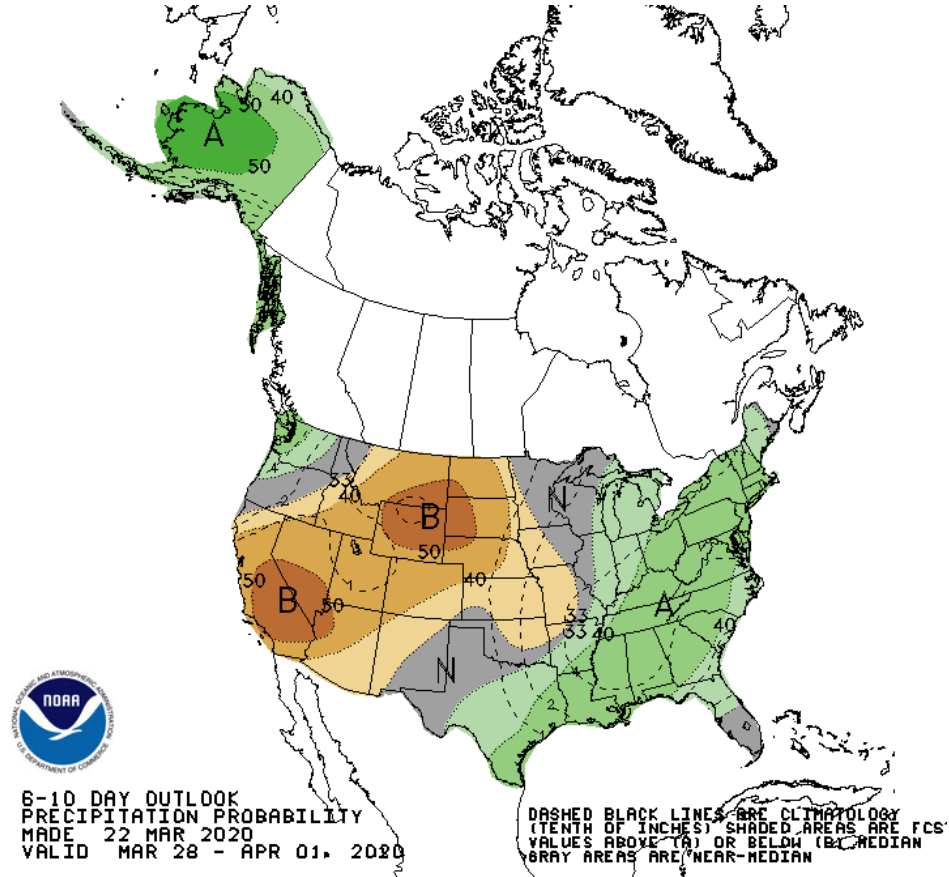
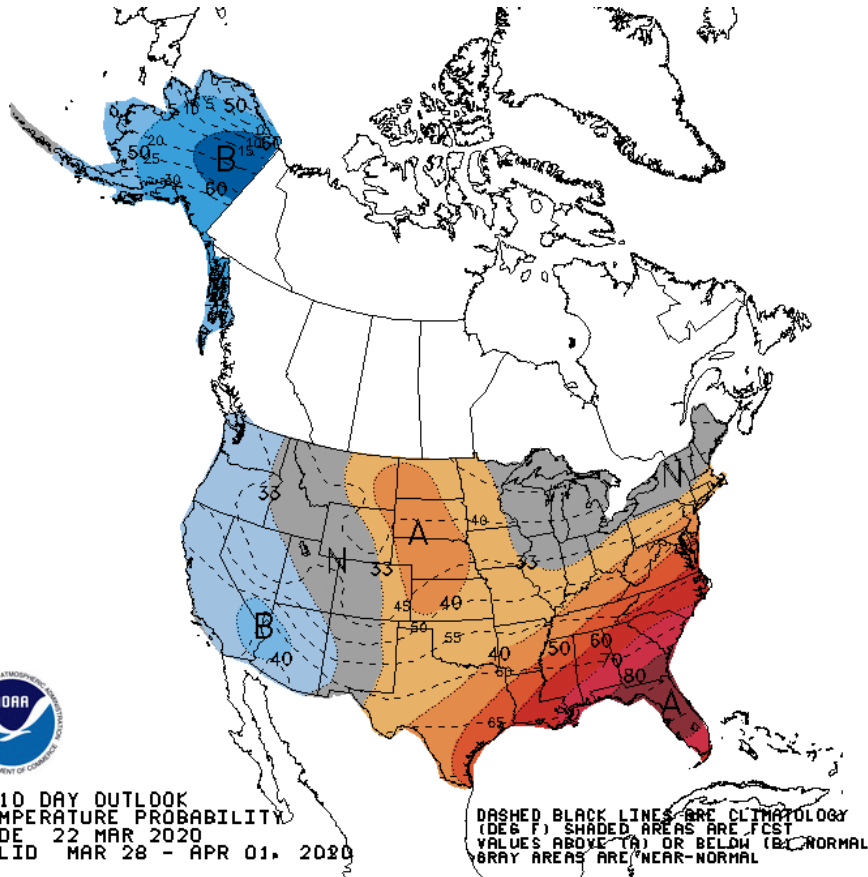
Weather for the Week Ahead



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6-10 Day Outlook



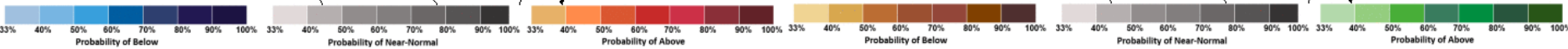
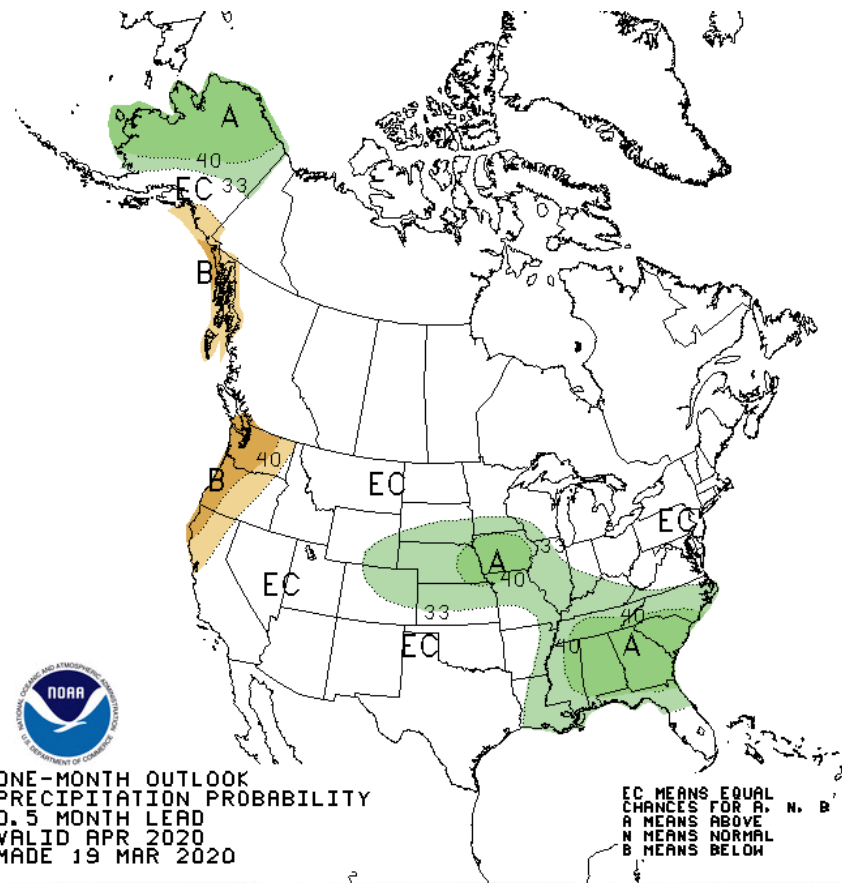
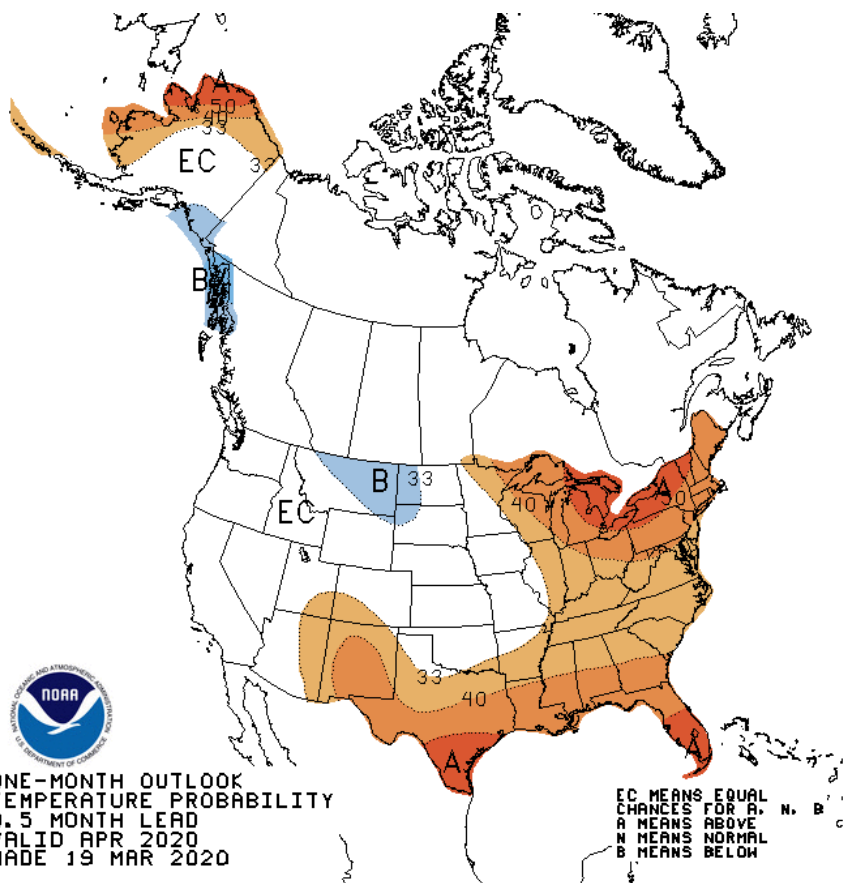
Highs: 51-58°F; Lows: 32-38°F; Precip: 0.85-1.05" (per week)



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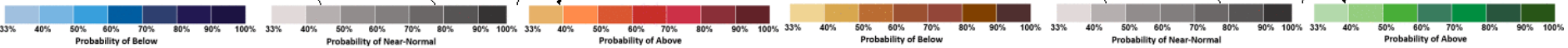
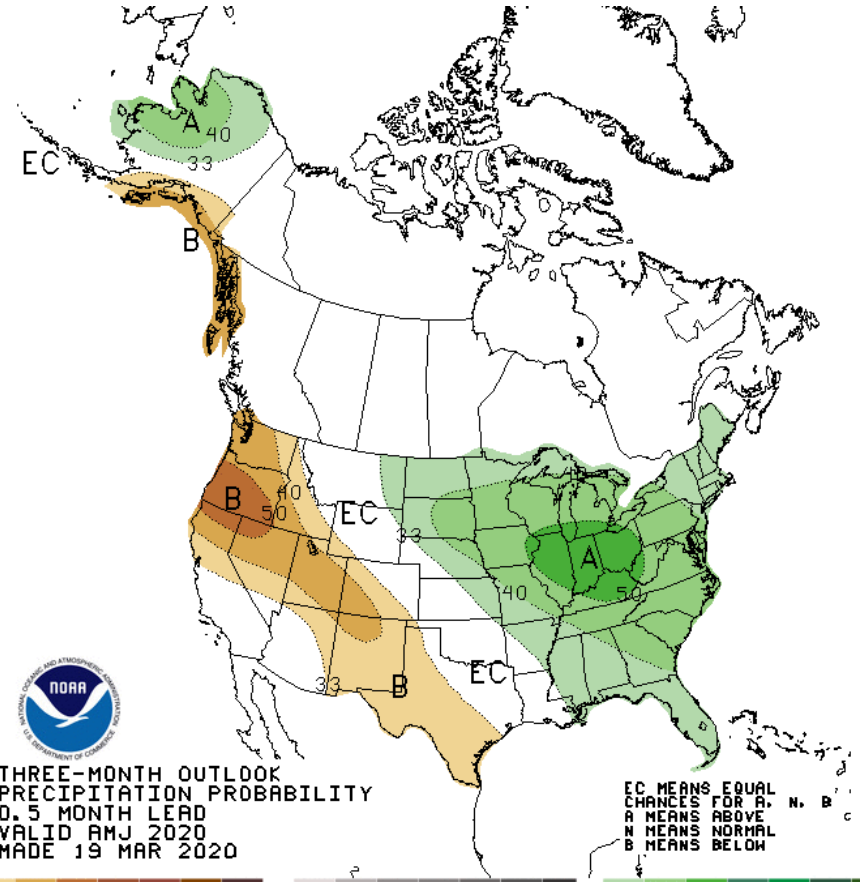
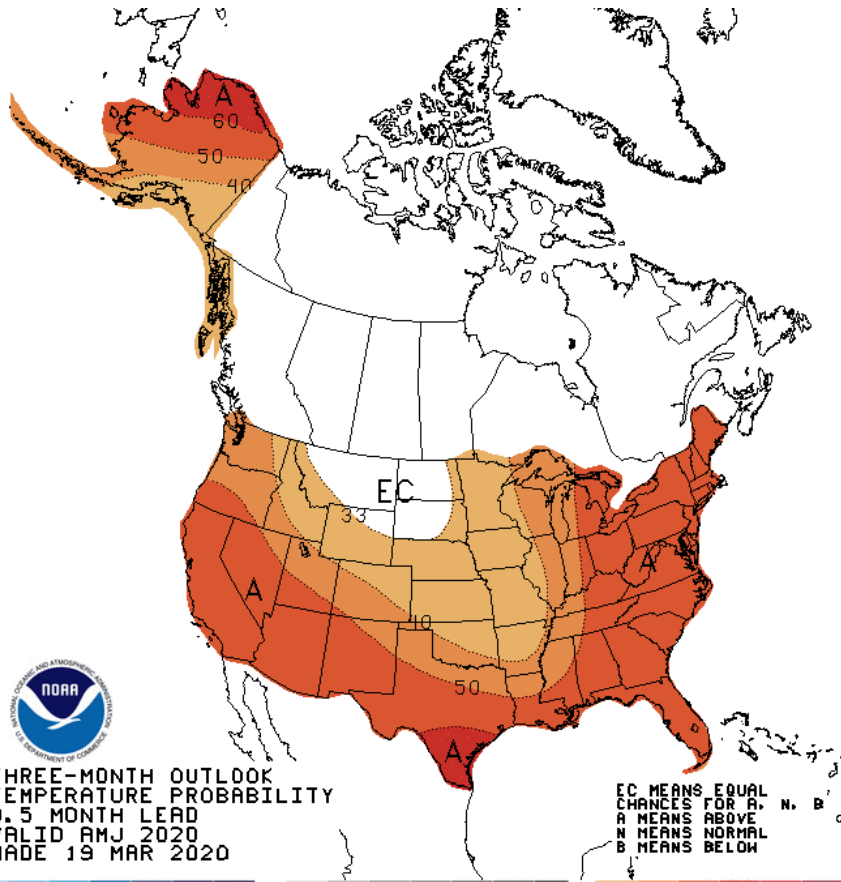
April Outlook



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April - June



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Summary of Conditions

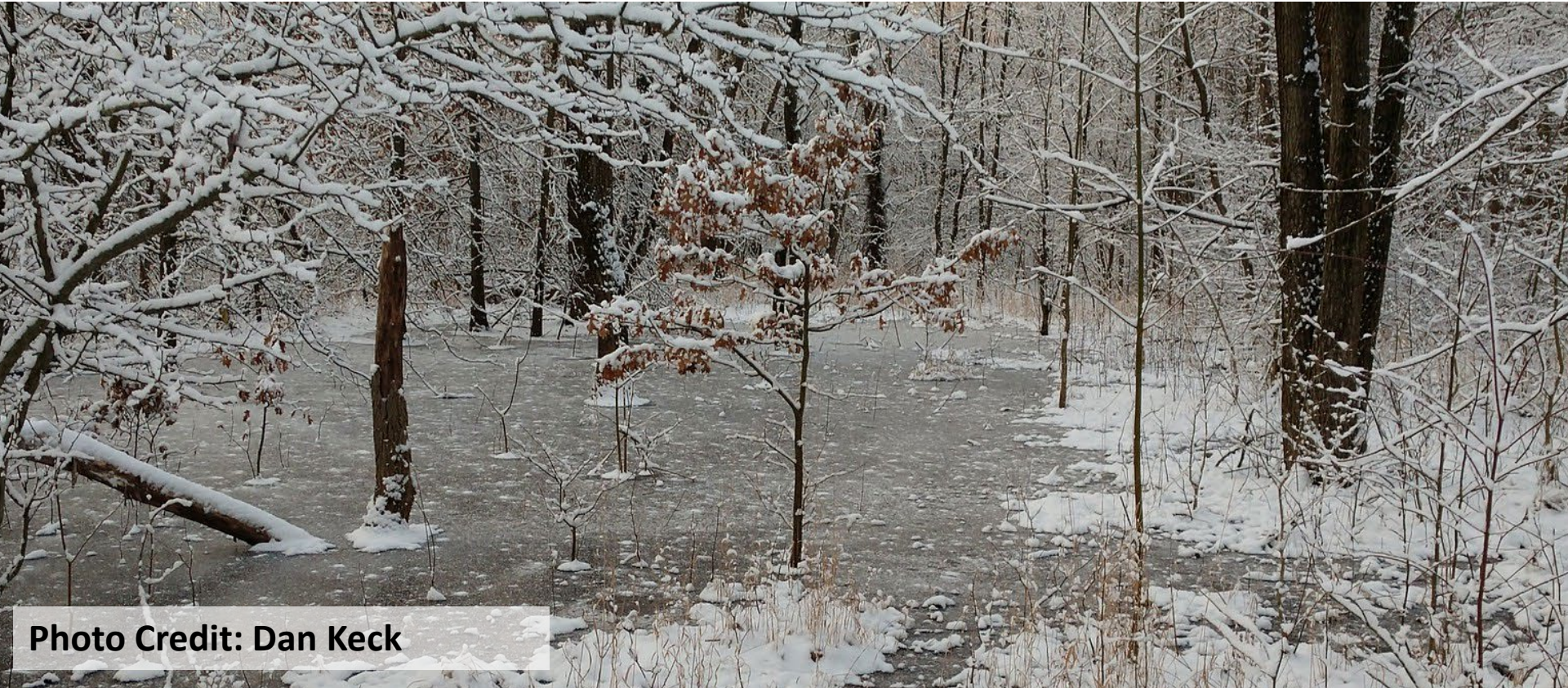


Photo Credit: Dan Keck

Drought Monitor: None

Climate Recap: Generally warmer and wetter than average of late

Ahead: Mild temperatures likely to continue with ample opportunities for precipitation



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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