Hydrologic and Climate Assessment

April 30, 2020

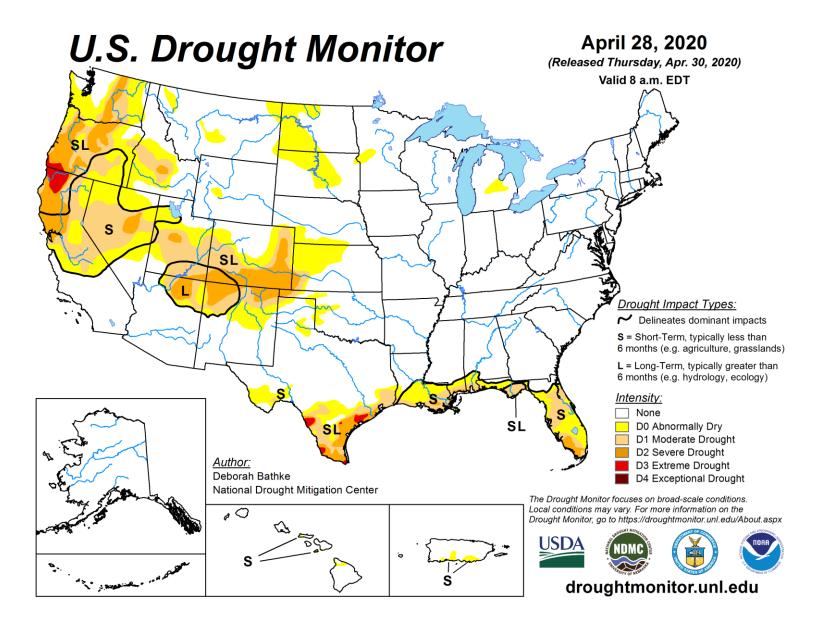




Aaron B. Wilson

STATE CLIMATE OFFICE OF OHIO (SCOO)

DEPARTMENT OF EXTENSION - CFAES BYRD POLAR & CLIMATE RESEARCH CENTER DEPARTMENT OF GEOGRAPHY

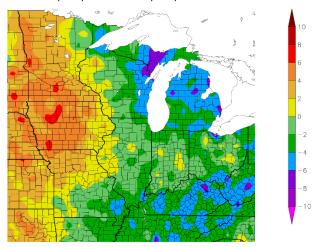




Temperature Differences Compared to Average (1981-2010)

7-Day

Departure from Normal Temperature (F) 4/23/2020 - 4/29/2020

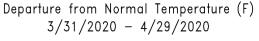


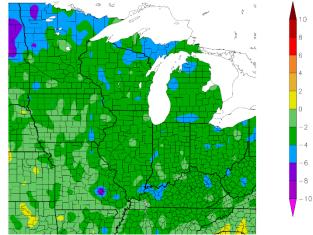
Generated 4/30/2020 at HPRCC using provisional data.

NOAA Regional Climate Centers



THE OHIO STATE UNIVERSITY

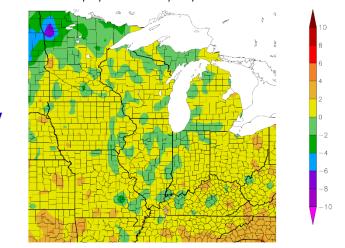




Generated 4/30/2020 at HPRCC using provisional data.

NOAA Regional Climate Centers

Departure from Normal Temperature (F) 3/1/2020 - 4/29/2020

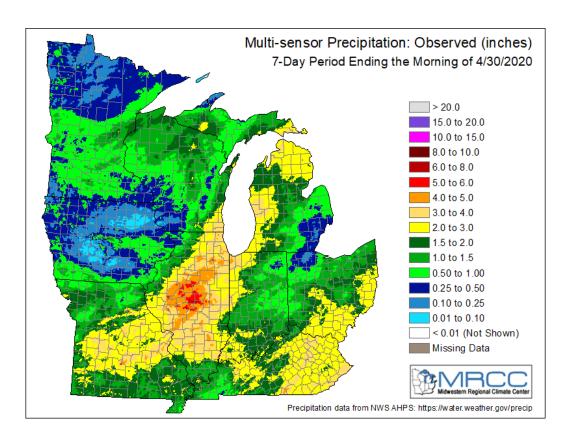


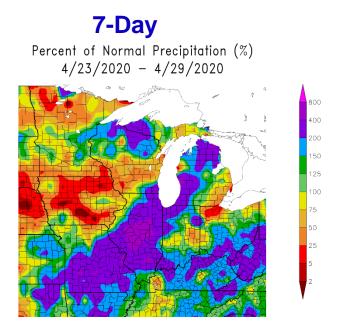
60-Day

30-Day

STATE CLIMATE OFFICE OF OHIO (SCOO)

This Week's Precipitation





Generated 4/30/2020 at HPRCC using provisional data.

NOAA Regional Climate Centers

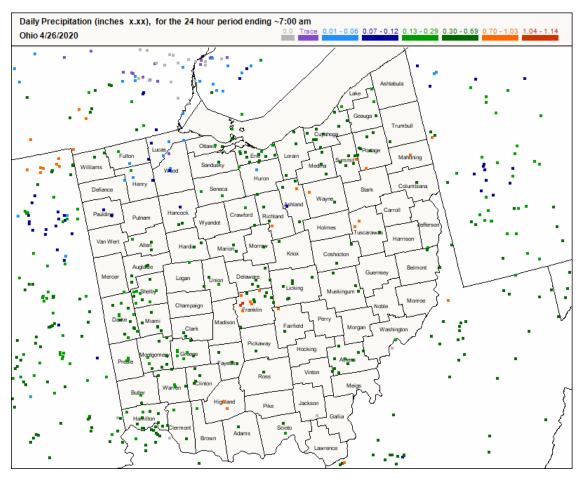






CoCoRaHS

Top 10 Wettest: Mar-Apr



| CoCoRaHS Name | Total Precip (inches) | | |
|----------------------------|--------------------------|--|--|
| Reynoldsburg 1.1 ENE | 14.74 | | |
| Sunbury 5.7 ESE | 14.39 | | |
| Granville 4.0 N | 13.68 | | |
| Westerville 0.7 N | 13.63 | | |
| Hanoverton 0.4 ENE | 13.58 | | |
| Kirkersville 3.3 N | 13.57 | | |
| Springfield 7.4 SW | 13.53 | | |
| Alexandria 2.1 NNW | 13.23 | | |
| Westerville 3.4 N | 13.09 | | |
| Grandview Heights 0.1 N | 13.02 | | |

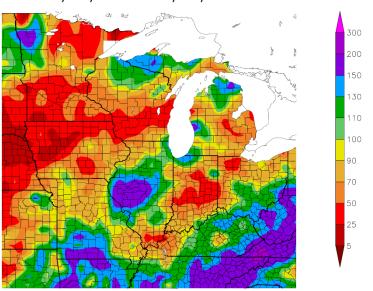
https://cocorahs.org/



Precipitation Differences Compared to Average (1981-2010)

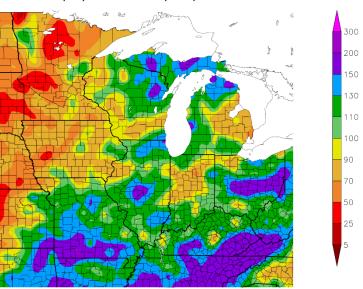
30-Day

Percent of Normal Precipitation (%) 3/31/2020 - 4/29/2020



60-Day

Percent of Normal Precipitation (%) 3/1/2020 - 4/29/2020



Generated 1/30/2020 at HPRCC using provisional data.

NOM Regional Climate Centers

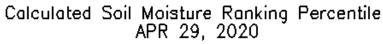
Generated 4/30/2020 at HPRCC using provisional data.

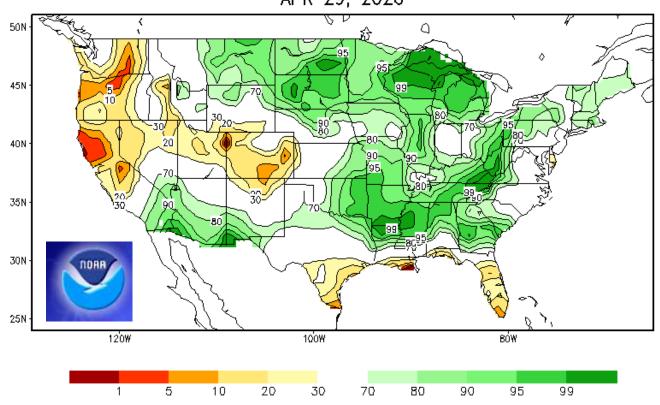
NOM Regional Climate Centers





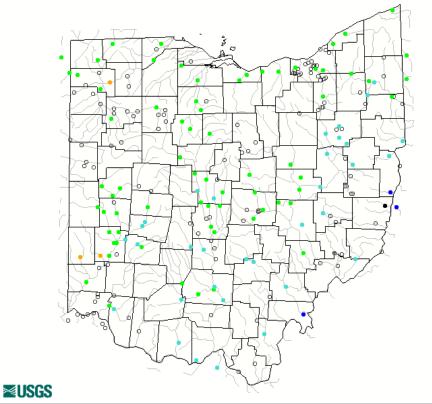
Soil Moisture







7-DAY

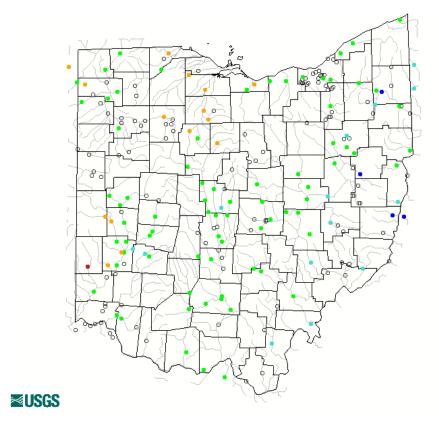


| Explanation - Percentile classes | | | | | | | | |
|----------------------------------|----------------------|-----------------|--------|-----------------|----------------------|------|------------|--|
| • | | • | • | | • | • | 0 | |
| Low | <10 | 10-24 | 25-75 | 76-90 | >90 | High | Not-ranked | |
| | Much below normal | Below normal | Normal | Above normal | Much above normal | | | |

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

USGS Streamflow

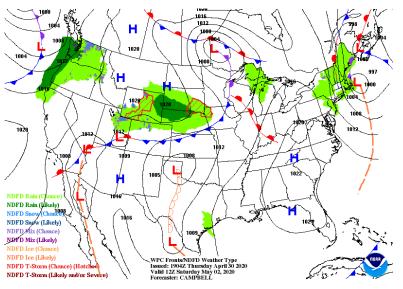


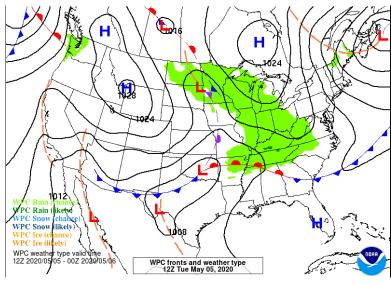


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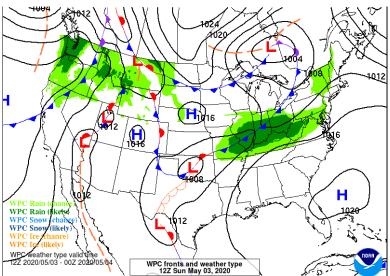


Weather for the Week Ahead





Saturday 5/2

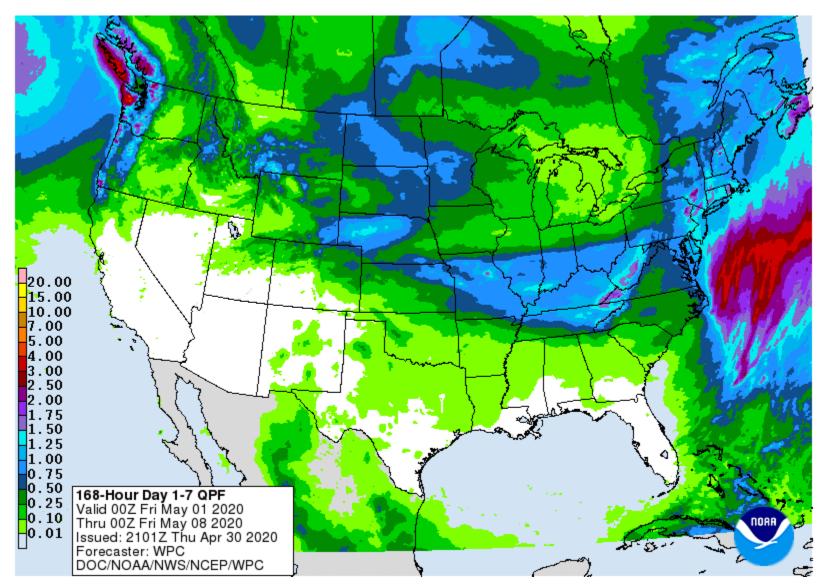


Tuesday

Sunday 5/3

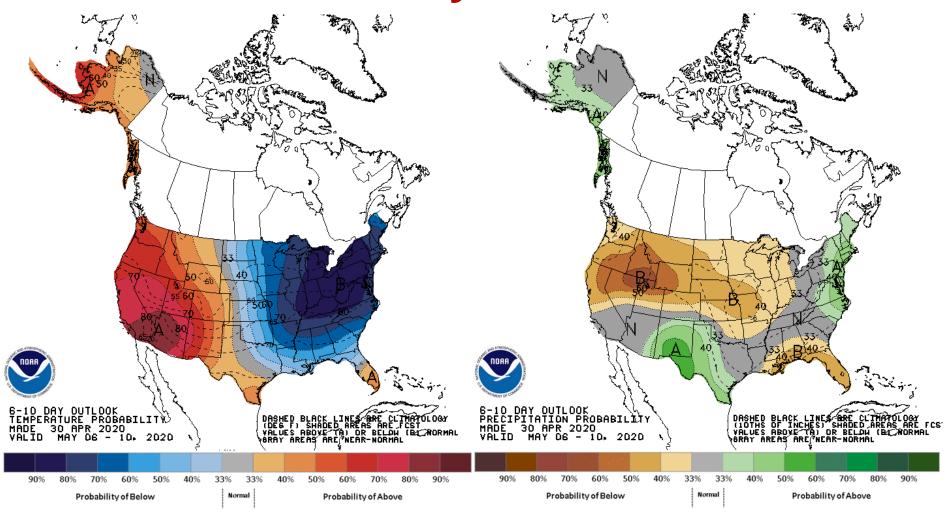
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Weather for the Week Ahead





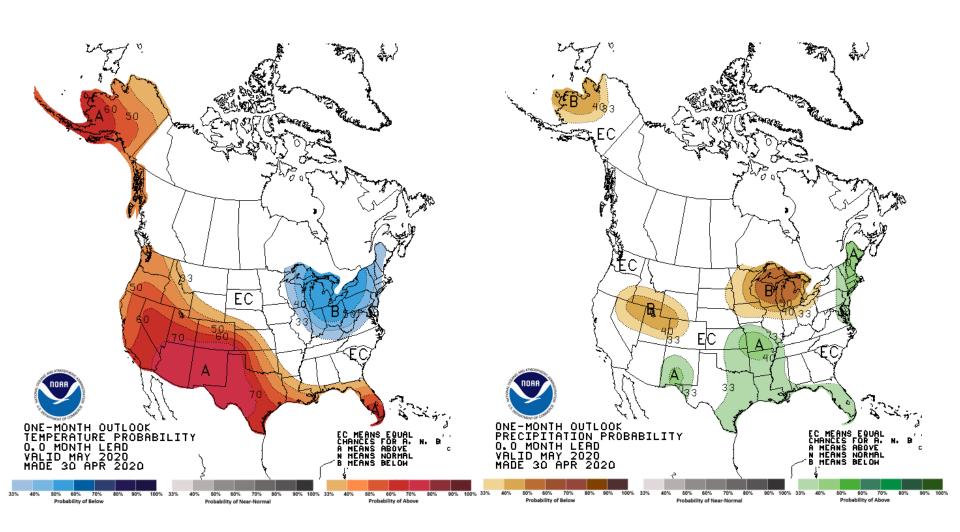
6-10 Day Outlook



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



May Outlook





Ag Highlights

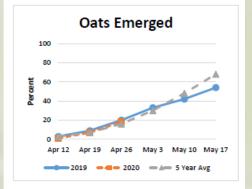
- 2.7 suitable days for fieldwork
- Worked the ground, sprayed weeds, spread manure and fertilizers, and tiled fields.
- Corn and soybean planting began
- Some freeze damage

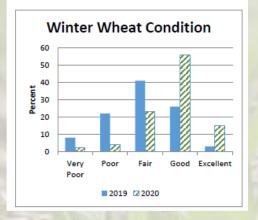
NASS: Cheryl Turner -

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: None

Climate Recap: Dry NW, wet south and east; generally cold across the region

Ahead: Slow moderation in temperatures; active pattern but weak systems



Partners and Additional Information

- SCOO's Website: https://climate.osu.edu
- NOAA's National Climatic Data Center: <u>www.ncdc.noaa.gov</u>
 - 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