Hydrologic and Climate Assessment

February 20, 2020

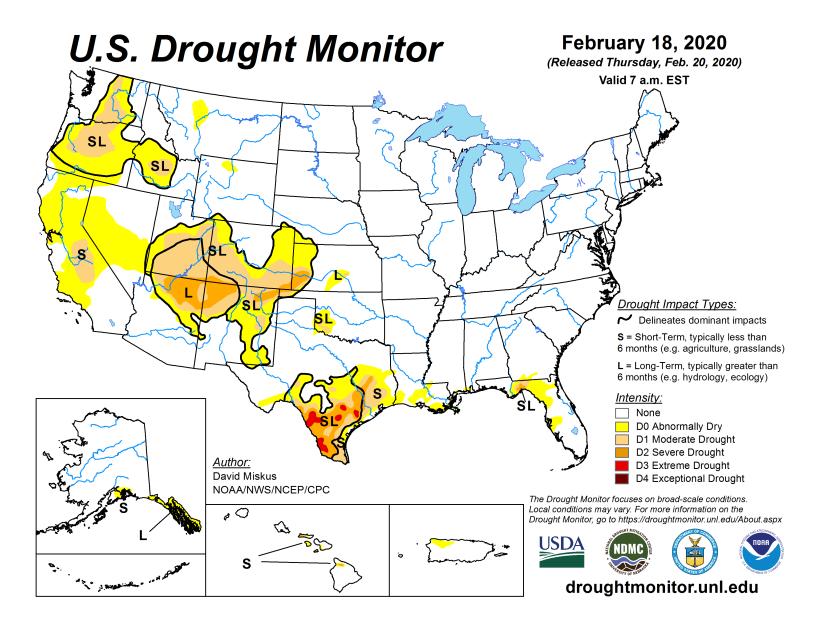




Aaron B. Wilson

STATE CLIMATE OFFICE OF OHIO (SCOO)
DEPARTMENT OF EXTENSION - CFAES

BYRD POLAR & CLIMATE RESEARCH CENTER
DEPARTMENT OF GEOGRAPHY

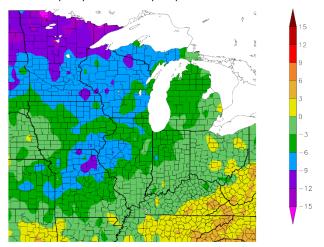




Temperature Differences Compared to Average (1981-2010)

7-Day

Departure from Normal Temperature (F) 2/13/2020 - 2/19/2020



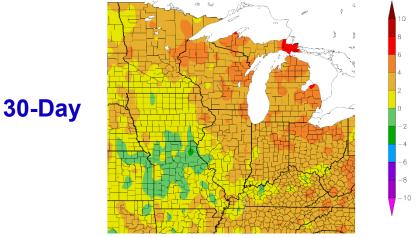
Generated 2/20/2020 at HPRCC using provisional data.

NOAA Regional Climate Centers



THE OHIO STATE UNIVERSITY

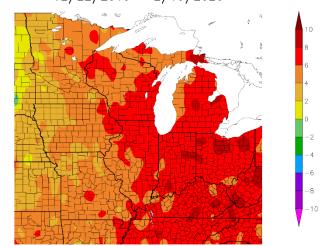
Departure from Normal Temperature (F) 1/20/2020 - 2/18/2020



Generated 2/19/2020 at HPRCC using provisional data

NOAA Regional Climate Centers

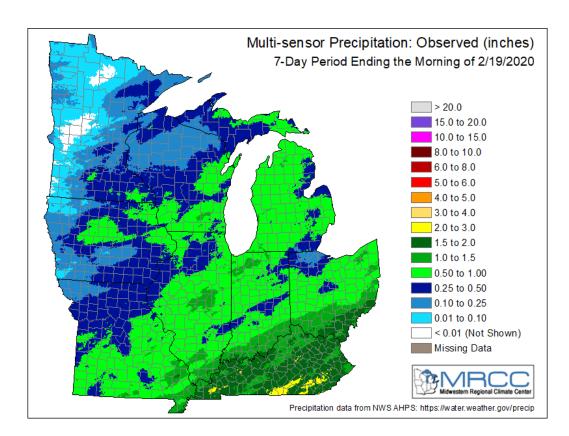
Departure from Normal Temperature (F) 12/22/2019 - 2/19/2020

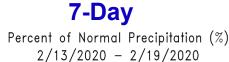


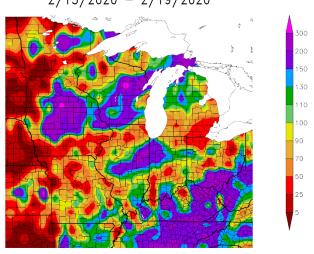
60-Day

STATE CLIMATE OFFICE OF OHIO (SCOO)

This Week's Precipitation







Generated 2/20/2020 at HPRCC using provisional data.

NOAA Regional Climate Centers

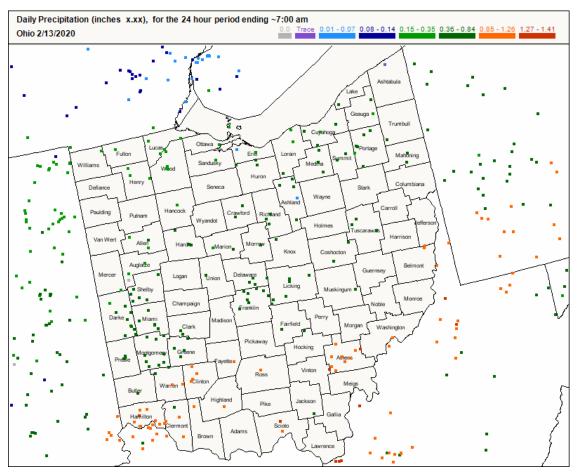






CoCoRaHS

Top 10 Wettest



<u> </u>				
CoCoRaHS Name	Total Precip (inches)			
Pataskala 4.1 W	9.26			
Polk 5.5 S	8.09			
Athens 4.6 ESE	7.79			
Athens 7.0 WNW	7.69			
Athens 2.3 SSE	7.60			
Cincinnati 8.4 NW	7.54			
Albany 4.5 WNW	7.42			
Fredericktown 4.0 NNW	7.41			
Glouster 3.6 SW	7.34			
Fayetteville 0.5 W	7.33			

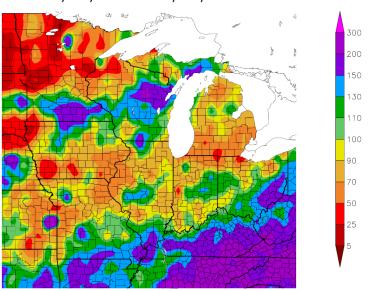
https://cocorahs.org/



Precipitation Differences Compared to Average (1981-2010)

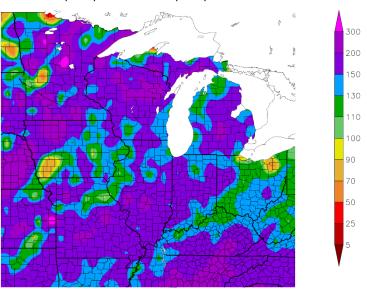
30-Day

Percent of Normal Precipitation (%) 1/20/2020 - 2/18/2020



60-Day

Percent of Normal Precipitation (%) 12/22/2019 - 2/19/2020



Generated 2/19/2020 at HPRCC using provisional data.

NOM Regional Climate Centers

Generated 2/20/2020 at HPRCC using provisional data.

NOM Regional Climate Centers

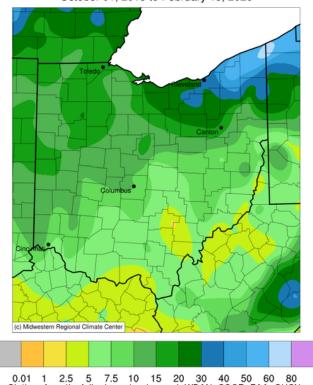




Snowfall and Differences Compared to Average (1981-2010)

Accumulated Snowfall (in)

October 01, 2019 to February 19, 2020

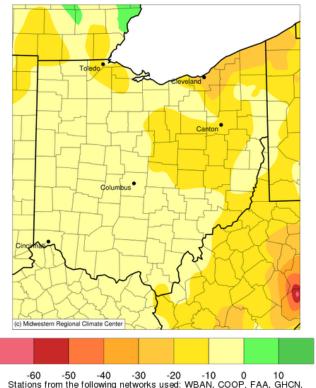


Stations from the following networks used: WBAN, COOP, FAA, GHCN, ThreadEx, CoCoRaHS, WMO, ICAO, NWSLI,

Midwestern Regional Climate Center cli-MATE: MRCC Application Tools Environment Generated at: 2/20/2020 8:33:18 AM CST

Accumulated Snowfall (in): Departure from 1981-2010 Normals

October 01, 2019 to February 19, 2020



Stations from the following networks used: WBAN, COOP, FAA, GHCN, ThreadEx, CoCoRaHS, WMO, ICAO, NWSLI,

Midwestern Regional Climate Center cli-MATE: MRCC Application Tools Environment Generated at: 2/20/2020 8:35:27 AM CST

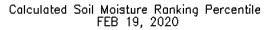


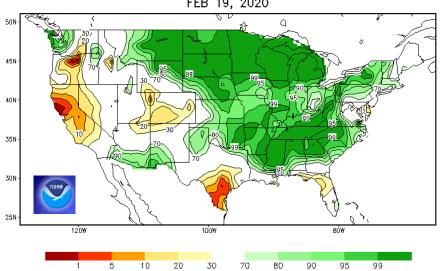




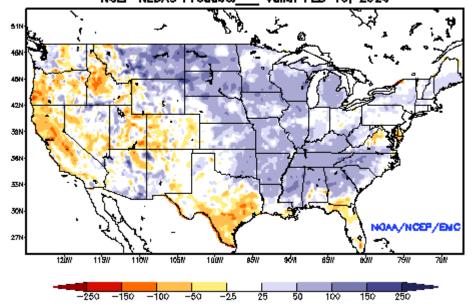
STATE CLIMATE OFFICE OF OHIO (SCOO)

Soil Moisture



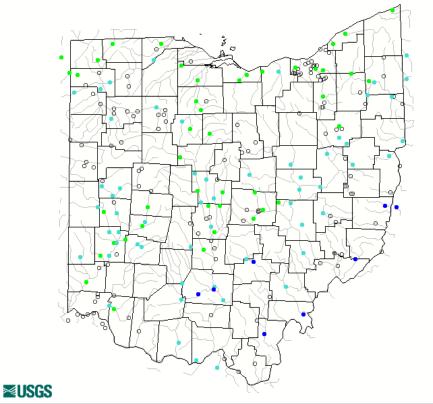


Ensemble-Mean - Current Total Column Soil Moisture Anomaly (mm) NCEP NLDAS Products____ Valid: FEB 15, 2020





7-DAY

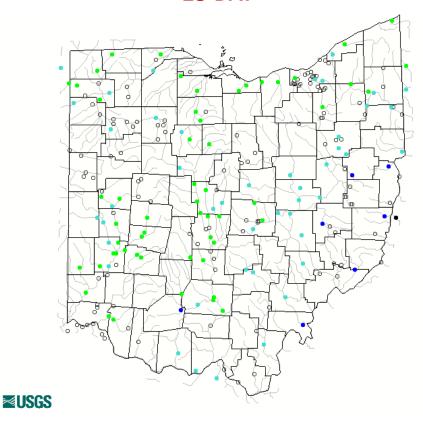


Explanation - Percentile classes								
		•	•			•	0	
Low	<10	10-24	25-75	76-90	>90	High	Not-ranked	
	Much below normal	Below normal	Normal	Above normal	Much above normal			

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

USGS Streamflow

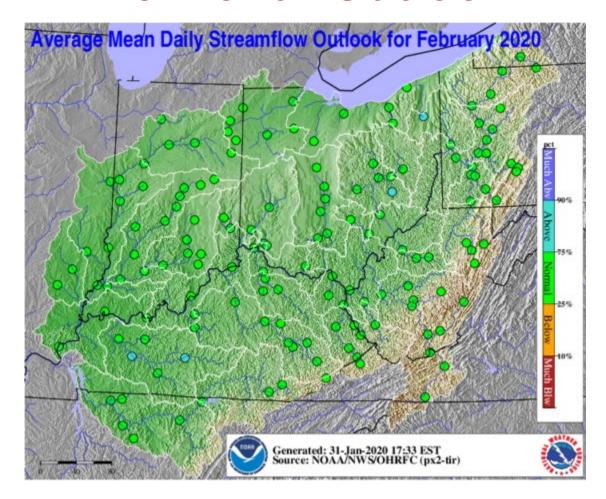






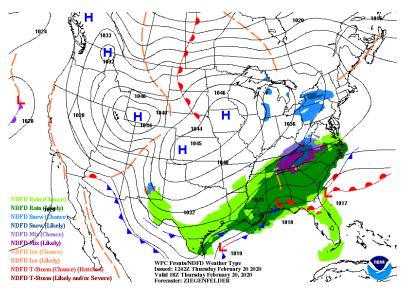


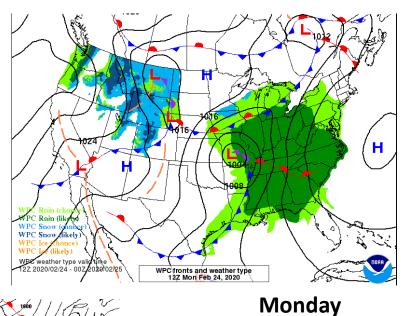
Ohio River Forecast Center 1-3 Month Outlook



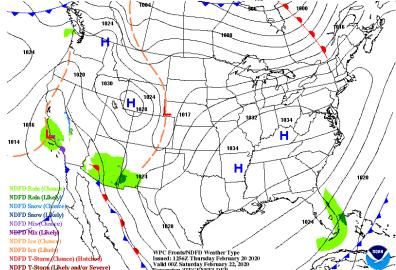


Weather for the Week Ahead





Thursday (today)

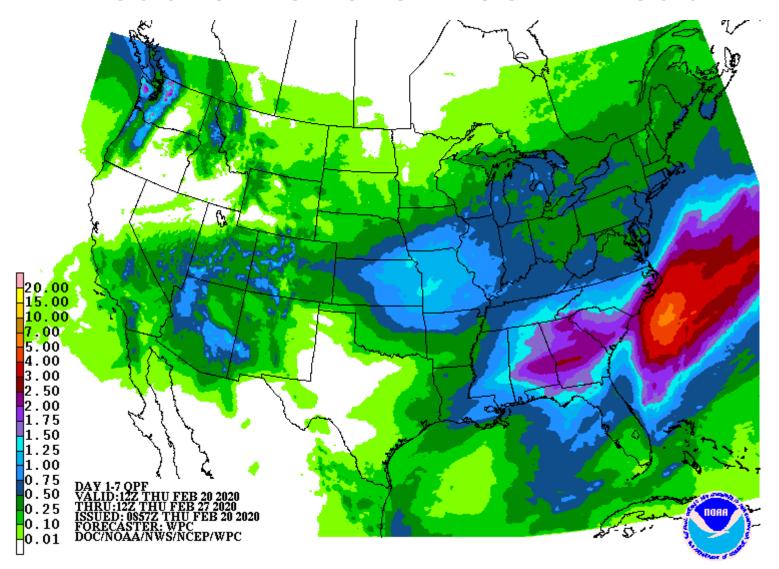


STATE CLIMATE OFFICE OF OHIO (SCOO)



Saturday

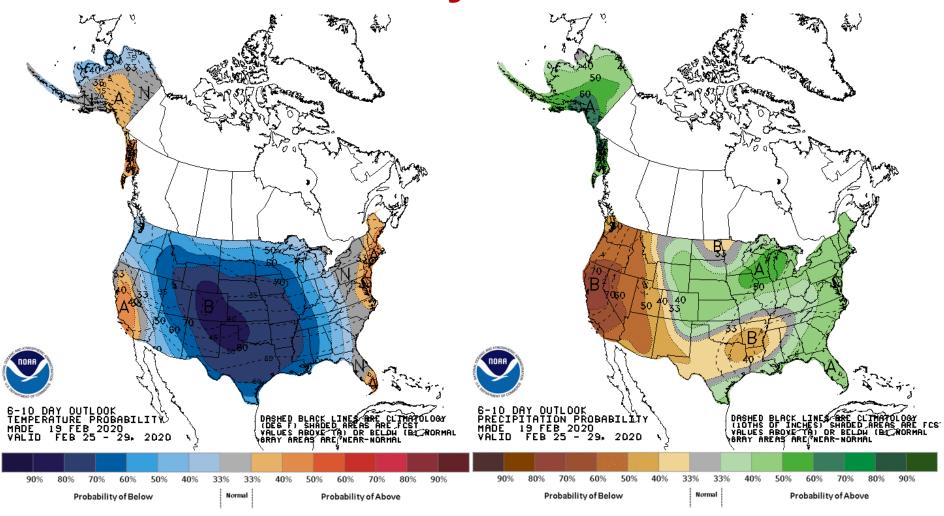
Weather for the Week Ahead





STATE CLIMATE OFFICE OF OHIO (SCOO)

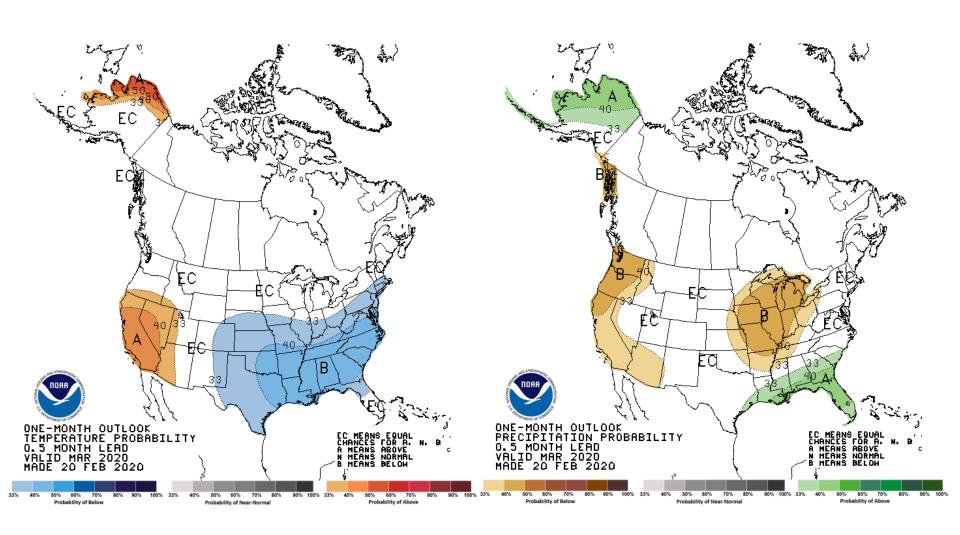
6-10 Day Outlook



Highs: 38-45°F; Lows: 22-27°F; Precip: 0.50-0.70" (per week)

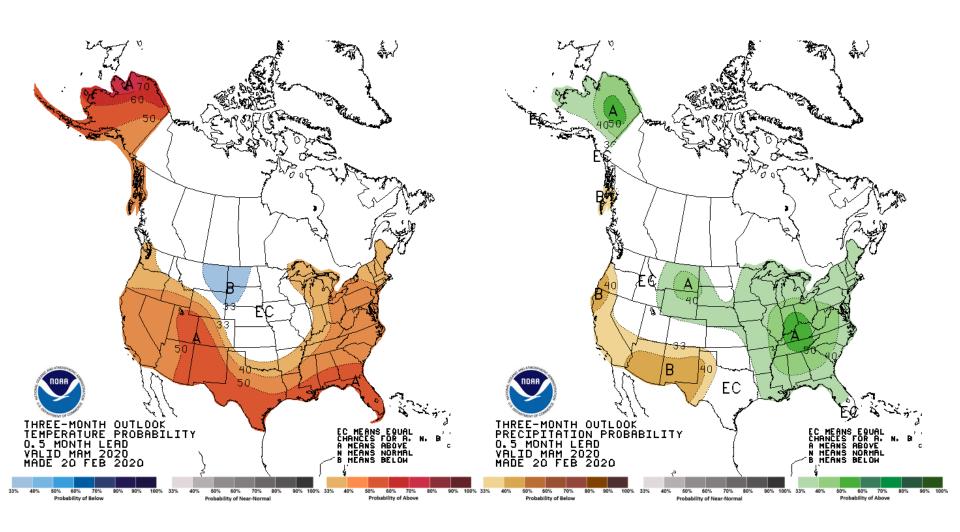


March Outlook





March - May





Summary of Conditions



Drought Monitor: None

Climate Recap: Warm winter with little snowfall; Warm soils with ample precipitation

Ahead: Warming trend this week and welcome dry weather; colder and damp next week



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: <u>www.climate.gov</u>
- 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