Hydrologic and Climate Assessment

January 7, 2020

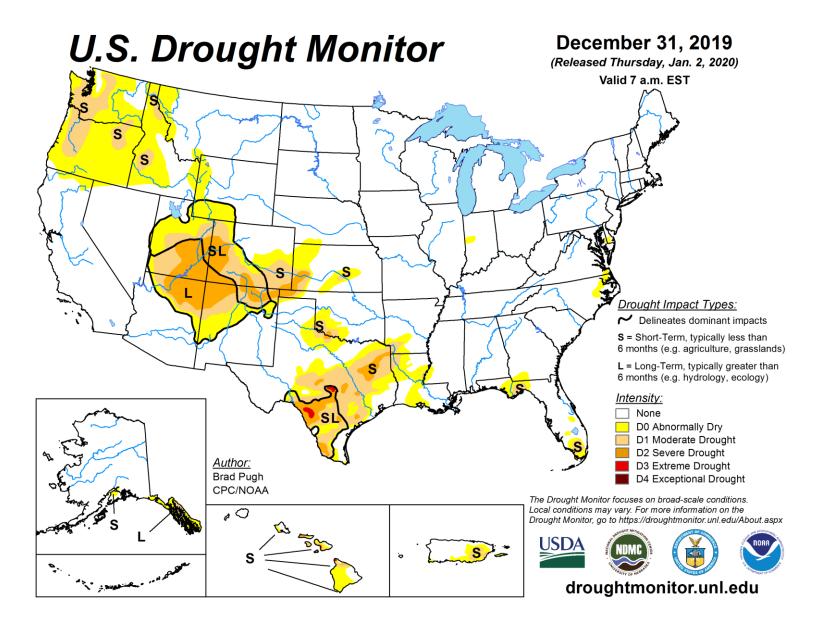




Aaron B. Wilson

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

BYRD POLAR & CLIMATE RESEARCH CENTER
DEPARTMENT OF GEOGRAPHY

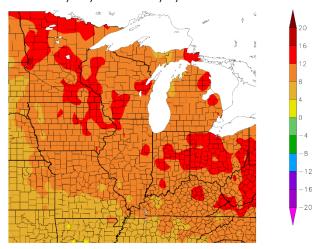




Temperature Differences Compared to Average (1981-2010)

7-Day

Departure from Normal Temperature (F) 12/30/2019 - 1/5/2020



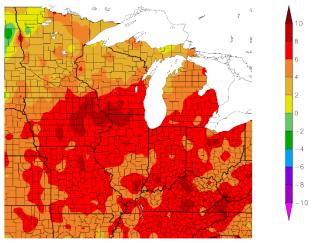
Generated 1/6/2020 at HPRCC using provisional data.

NOAA Regional Climate Centers



THE OHIO STATE UNIVERSITY

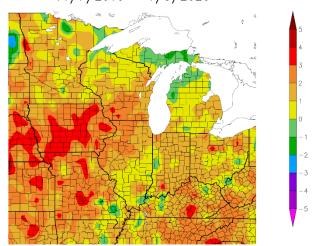
Departure from Normal Temperature (F) 12/7/2019 - 1/5/2020



Senerated 1/6/2020 at HPRCC using provisional data

NOAA Regional Climate Centers

Departure from Normal Temperature (F) 11/7/2019 - 1/5/2020

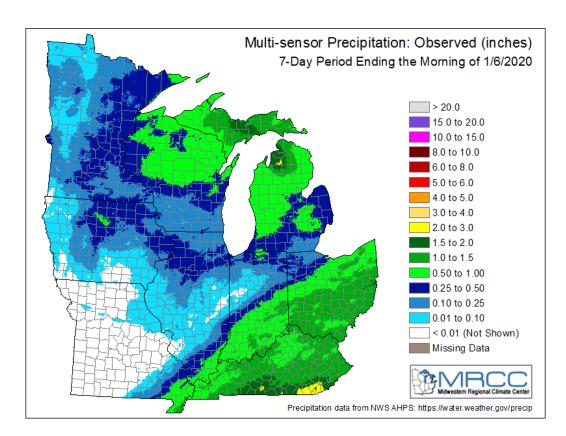


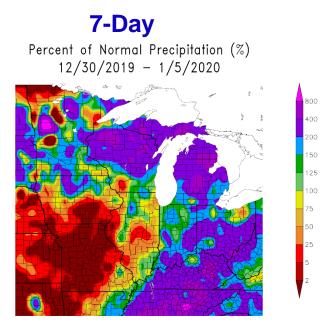
60-Day

30-Day

STATE CLIMATE OFFICE OF OHIO (SCOO)

This Week's Precipitation





Generated 1/6/2020 at HPRCC using provisional data.

NOAA Regional Climate Centers

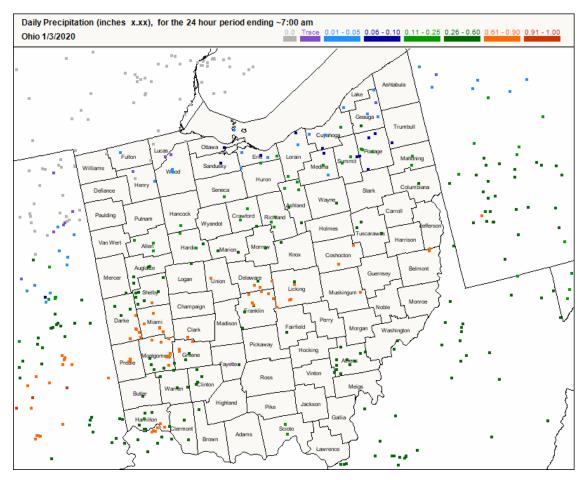






CoCoRaHS

Top 10 Wettest



-			
CoCoRaHS Name	Total Precip (inches)		
Pataskala 4.1 W	2.68		
Columbus 5.4 NW	2.32		
Mansfield 2.0 WNW	1.86		
Steubenville 2.0 WNW	1.61		
Westerville 3.4 N	1.49		
Munroe Falls 0.7 NNE	1.45		
Hanoverton 0.4 ENE	1.43		
Cincinnati 4.2 ESE	1.40		
Sunbury 5.7 ESE	1.36		
Reynoldsburg 1.1 ENE	1.34		

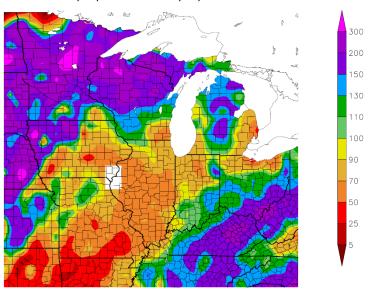
https://cocorahs.org/



Precipitation Differences Compared to Average (1981-2010)

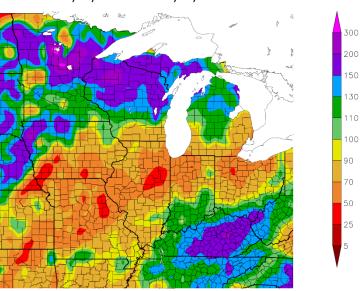
30-Day

Percent of Normal Precipitation (%) 12/7/2019 - 1/5/2020



60-Day

Percent of Normal Precipitation (%) 11/7/2019 - 1/5/2020



Generated 1/6/2020 at HPRCC using provisional data.

NOM Regional Climate Centers

Generated 1/6/2020 at HPRCC using provisional data.

NOM Regional Climate Centers

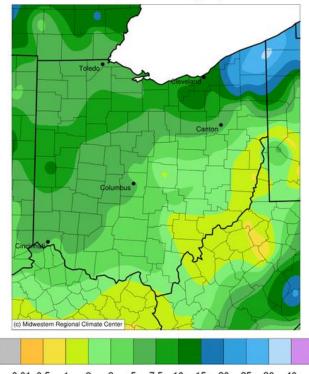




Snowfall and Differences Compared to Average (1981-2010)

Accumulated Snowfall (in)

October 01, 2019 to January 07, 2020

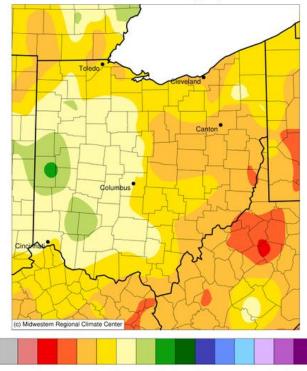


0.01 0.5 1 2 3 5 7.5 10 15 20 25 30 40 Stations from the following networks used: WBAN, COOP, FAA, GHCN, ThreadEx, CoCoRaHS, WMO, ICAO, NWSLI,

Midwestern Regional Climate Center cli-MATE: MRCC Application Tools Environment Generated at: 1/7/2020 10:10:01 AM CST

Accumulated Snowfall (in): Percent of 1981-2010 Normals

October 01, 2019 to January 07, 2020



2 5 10 25 50 75 100 125 150 175 200 300 400 500 750 Stations from the following networks used: WBAN, COOP, FAA, GHCN, ThreadEx, CoCoPaHS, WMO, ICAO, NWSLI,

Midwestern Regional Climate Center cli-MATE: MRCC Application Tools Environment Generated at: 1/7/2020 10:10:41 AM CST

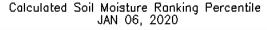


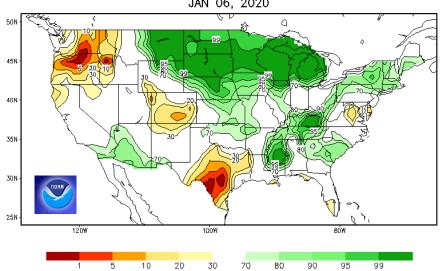




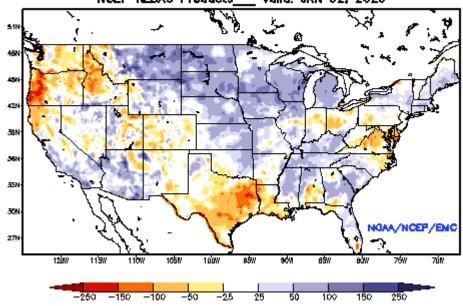
STATE CLIMATE OFFICE OF OHIO (SCOO)

Soil Moisture



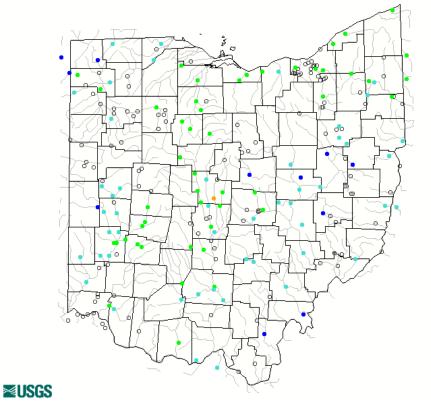


Ensemble-Mean - Current Total Column Soil Moisture Anomaly (mm) NCEP NLDAS Products____ Valid: JAN 02, 2020





7-DAY

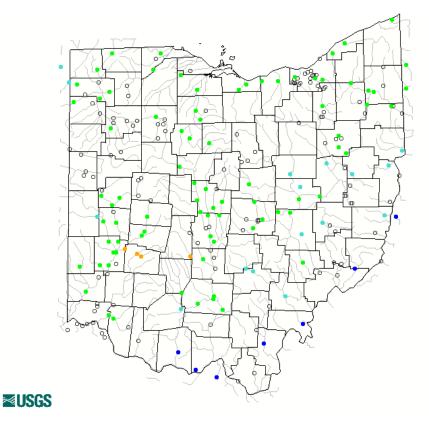


Explanation - Percentile classes							
		•	•			•	0
Low	<10	10-24	25-75	76-90	>90	High	Not-ranked
	Much below normal	Below normal	Normal	Above normal	Much above normal		

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

USGS Streamflow

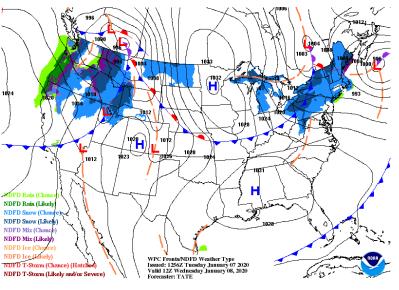


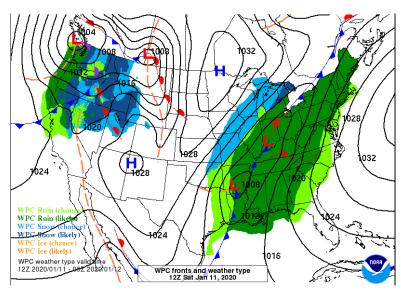




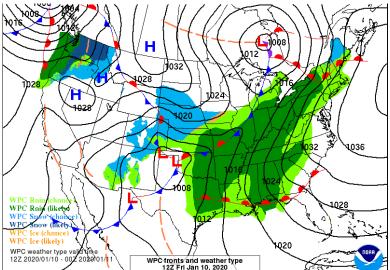


Weather for the Week Ahead





Wednesday



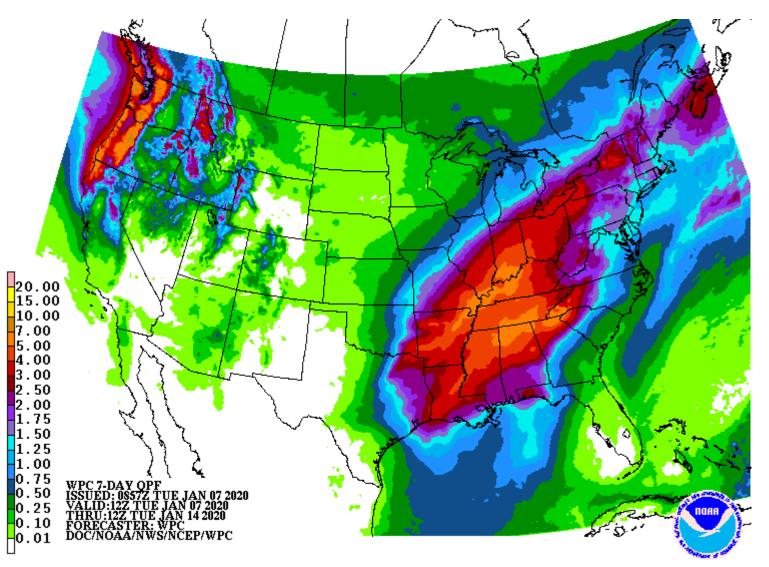
Saturday

Friday

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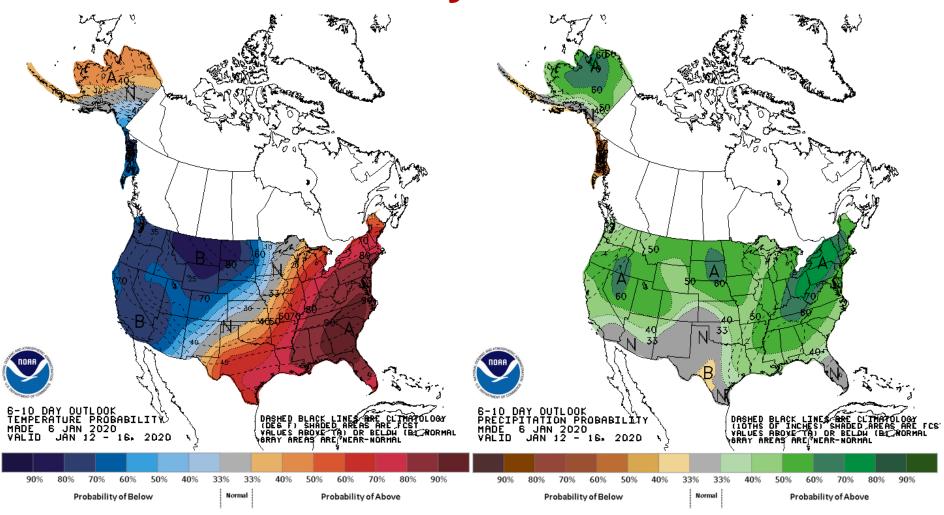


Weather for the Week Ahead





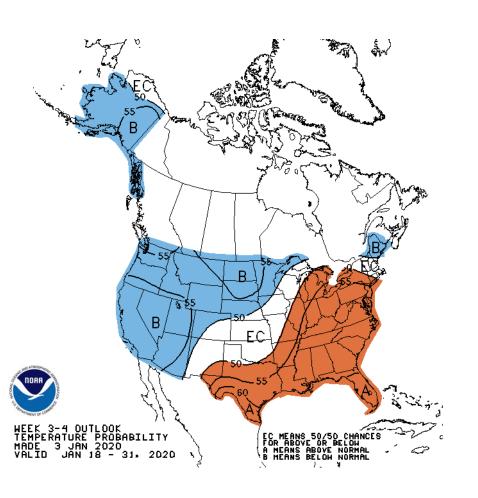
6-10 Day Outlook

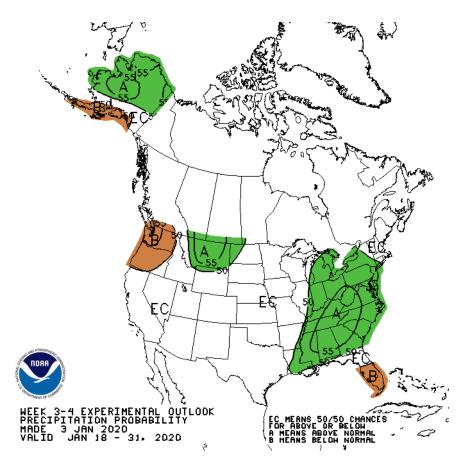


Highs: 33-38°F; Lows: 19-23°F; Precip: 0.50-0.70" (per week)



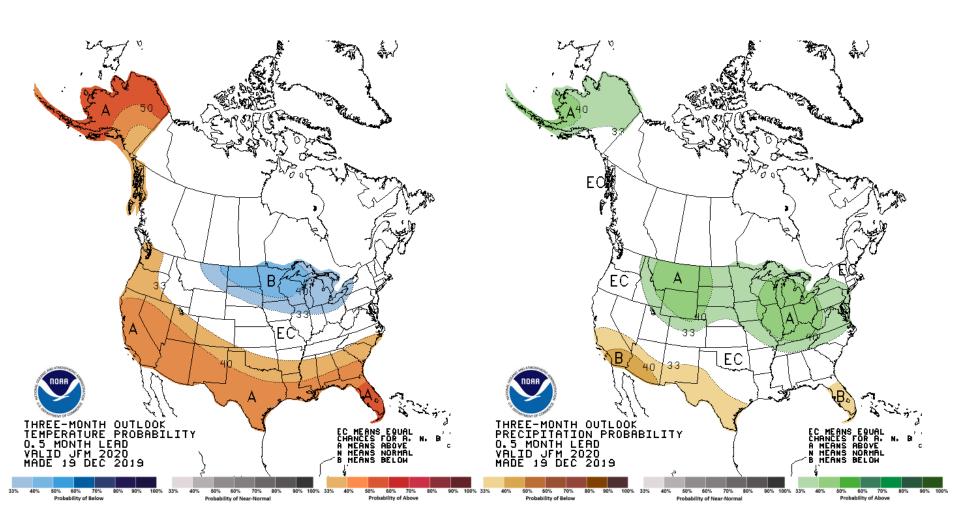
3-4 Week Outlook







January – March Outlook





Summary of Conditions



Drought Monitor: None

Climate Recap: Warm with recent wetness

The week ahead: Mild with plenty of rainfall, very little snowfall expected



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