



Drought Information Statement for Eastern IA, Northwest IL & Northeast MO

Valid March 28, 2024

Issued By: WFO Quad Cities IA/IL

Contact Information: nws.quadcities@noaa.gov

- This product will be updated on or after the 4th Thursday of the month or sooner if drought conditions change significantly.
 - Please see all currently available products at <https://drought.gov/drought-information-statements>.
 - Please visit <https://www.weather.gov/dvn/DroughtInformationStatement> for previous statements.
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- Drought conditions remained relatively stable throughout the month of March. As chances for precipitation increase in the next few weeks, so will evapo-transpiration needs as the spring green-up commences. This could lead to steady drought conditions again.

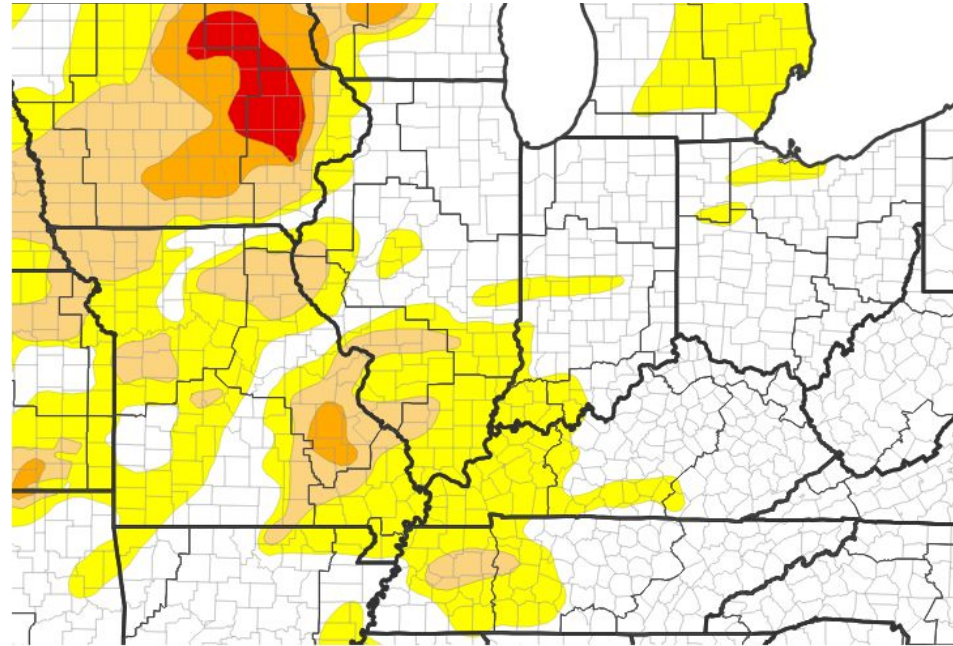




U.S. Drought Monitor

Link to the [latest U.S. Drought Monitor](#)

- Extreme Drought Conditions remain at same level in the DVN County Warning Area (CWA)
- Drought intensity and Extent
 - Widespread improvements have occurred over the past week.
 - **D4 (Exceptional Drought)**: Now is entirely absent from the DVN CWA.
 - **D3 (Extreme Drought)**: Now covers **15.1%** of the DVN CWA. Most of this is within eastern Iowa.
 - **D2 (Severe Drought)**: Now covers **23.4%** of the DVN CWA, again with the majority being in eastern Iowa.
 - **D1 (Moderate Drought)**: Now covers over **40.8%** of the DVN CWA.
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U.S. Drought Monitor

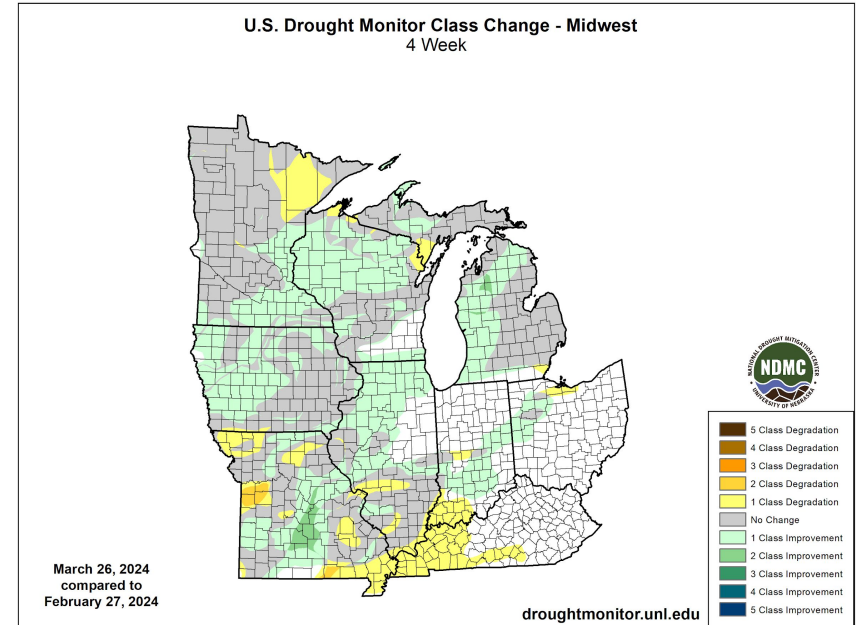




Recent Change in Drought Intensity

Link to the latest [4-week change map](#) for Midwest

- Four Week Drought Monitor Class Change.
 - **Drought Worsened:** Parts of Missouri, Kentucky, southern Illinois and Indiana, as well as northern Minnesota.
 - **No Change:** Large swaths throughout the region have seen little to no change, including a bulk of the state of Minnesota and central to eastern Iowa.
 - **Drought Improved:** In a number of places scattered across the lower Midwest, including northern Illinois and western Iowa, most of Kentucky and Indiana, central Missouri and western Michigan.

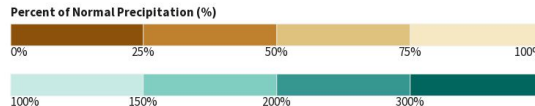
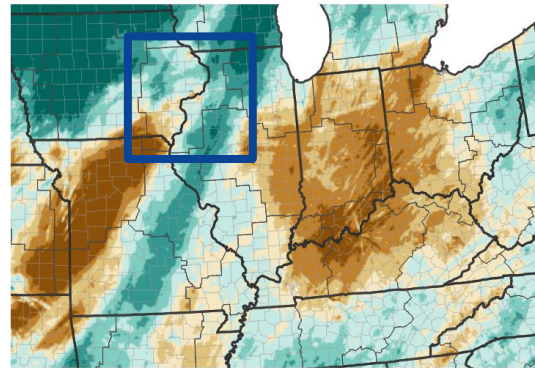




Precipitation

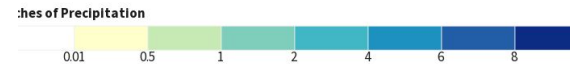
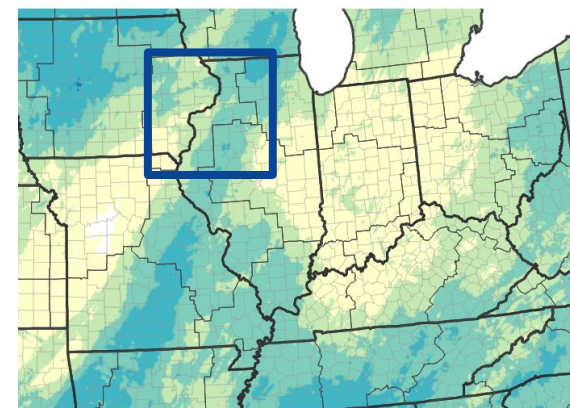
- Most of the DVN CWA saw average or higher precipitation in the previous week, except in southeast Iowa and northeast Missouri.
- Outside of the DVN CWA rainfall amounts were also well above average in most of the area to our north and well below average in a band stretching from northeast Oklahoma to southeast Iowa.

7-Day Percent of Normal Precipitation



Source(s): National Weather Service Multi-Radar Multi-Sensor System; image courtesy of Drought.gov Last Updated: 03/28/24

Day Precipitation Accumulations (Inches)



Source(s): National Weather Service Multi-Radar Multi-Sensor System; image courtesy of Drought.gov Last Updated: 03/28/24



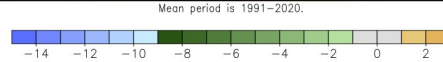
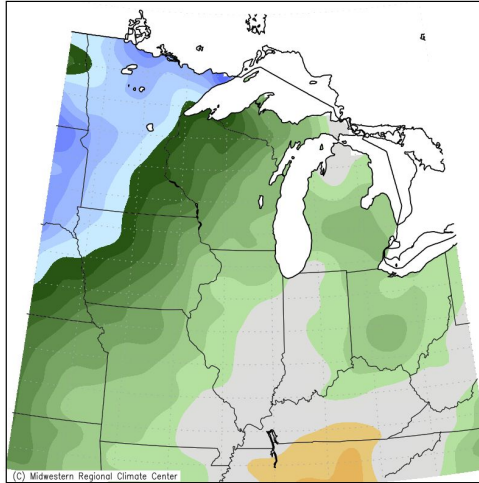


Temperature

MRCC

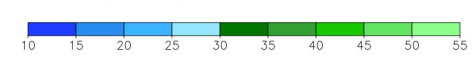
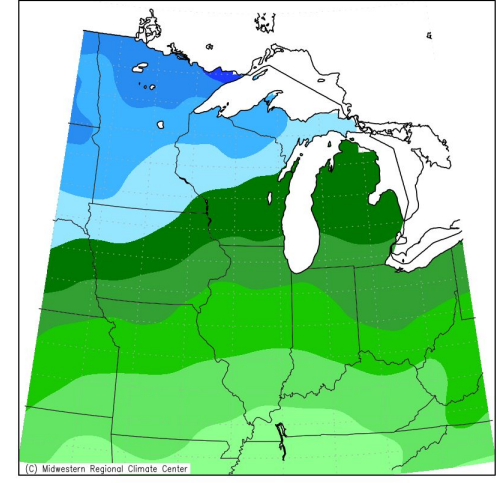
- Average temperatures ranged between 30-45 degrees. This is below normal.
- Regionally, temperatures were generally near to below normal in the Upper Midwest.

Average Temperature (°F): Departure from Mean
March 21, 2024 to March 27, 2024



Midwestern Regional Climate Center
Purdue University

Average Temperature (°F)
March 21, 2024 to March 27, 2024



Midwestern Regional Climate Center
Purdue University





Summary of Impacts

Link [Condition Monitoring Observer Reports \(CMOR\)](#) and view the [Drought Impacts Reporter](#)

Hydrologic Impacts

- Streamflows remain well below normal across most of Iowa and near normal in western Illinois. ([USGS](#))

Agricultural Impacts

- Anomalously dry soils remain particularly across eastern Iowa, but we are seeing increasing amounts of available water in the upper soil zones. ([CPC Soil Moisture](#))

Fire Hazard Impacts

- There are no known impacts at this time.

Other Impacts

- Rainfall is forecast next week, in increasing amounts as you head east in the DVN CWA. ([WPC Precipitation Totals](#))

Mitigation Actions

- Please refer to your municipality and/or water provider for mitigation information.

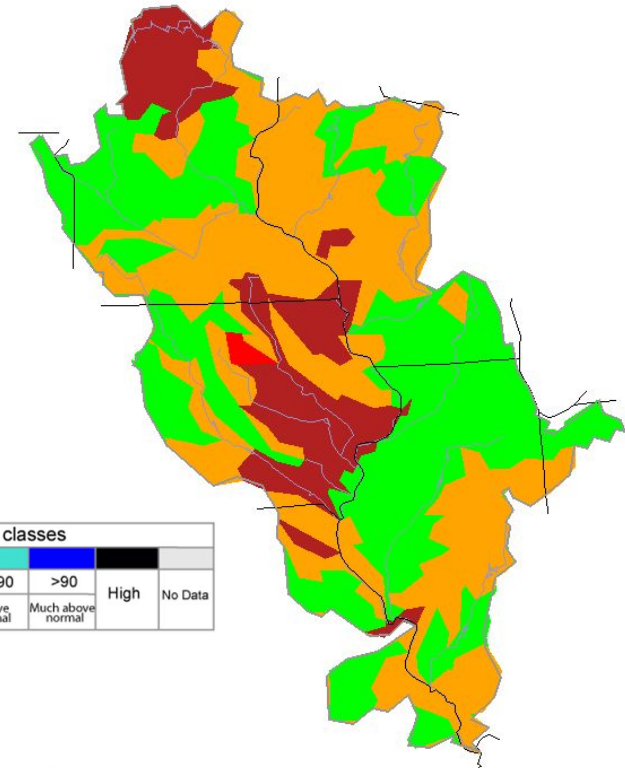




Hydrologic Conditions and Impacts

Hednesday, March 27, 2024

- Many river levels have returned to lower flows over the past few weeks in the DVN Hydrologic Service Area (HSA).
- Streamflows are running near normal with only a few running below normal in eastern Iowa.
- Despite the lower river levels, the Mississippi River remains navigable at this time.



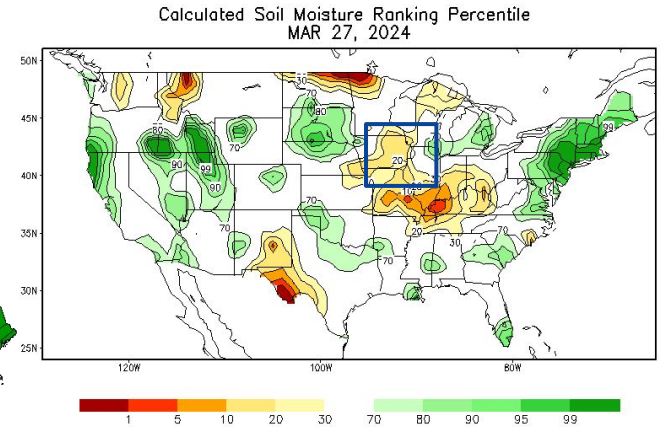
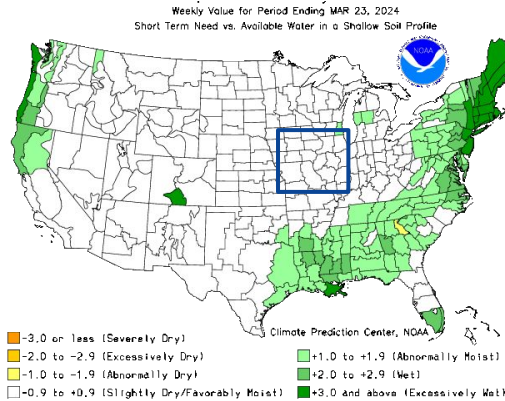
Explanation - Percentile classes							
Low	<10	10-24	25-75	76-90	>90	High	No Data
	Much below normal	Below normal	Normal	Above normal	Much above normal		





Agricultural Impacts

- Locally, we are observing below normal soil moisture conditions in Iowa and near normal conditions in most of our Illinois service area. The driest soils can be seen in area around the confluence of the Tennessee and Ohio rivers.
- Much of the local area, along with areas directly north, are seeing near normal available crop moisture. This change can partially be attributed to the end of the traditional growing season.

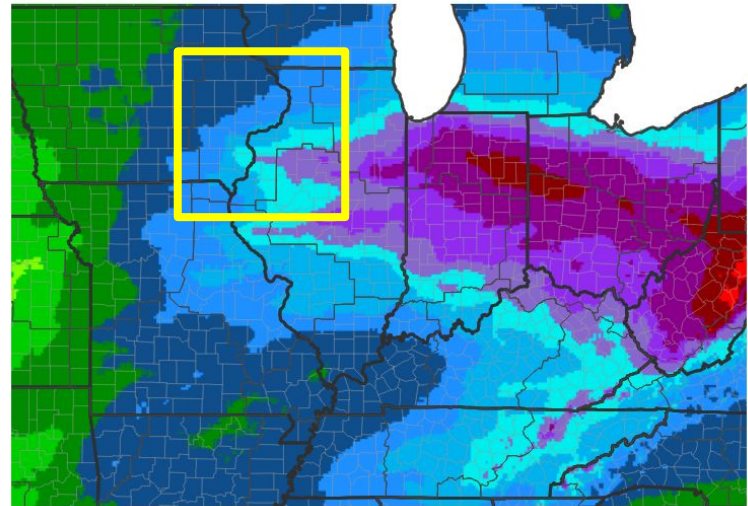




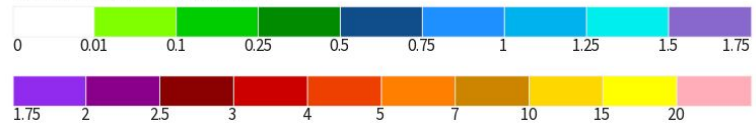
Seven Day Precipitation Forecast

- Through the next 7 days, we are expecting to see 0.1 to 1.75 inches of precipitation with varying local amounts possible. Most of this precipitation is expected to fall as liquid precipitation, due to unseasonably warm temperatures.
- If these precipitation totals occur, it is possible that we could see drought remain status quo or slight improvements over the next 2 weeks.

7-Day Quantitative Precipitation Forecast



Predicted Inches of Precipitation



Source(s): National Weather Service Weather Prediction Center; image courtesy of Drought.gov

Data Valid: 03/28/24

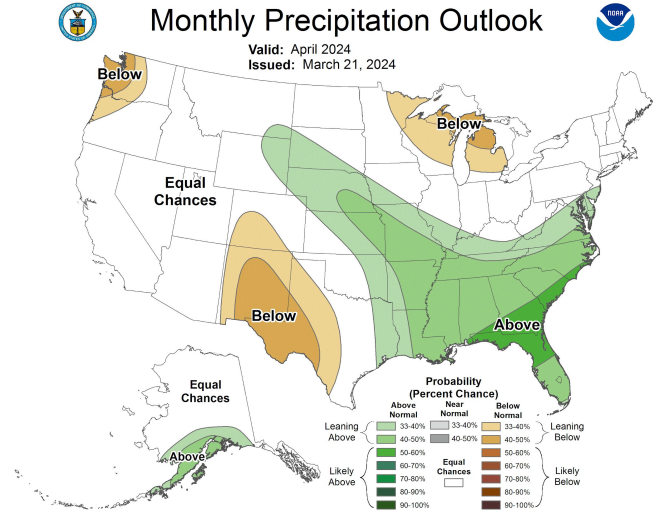
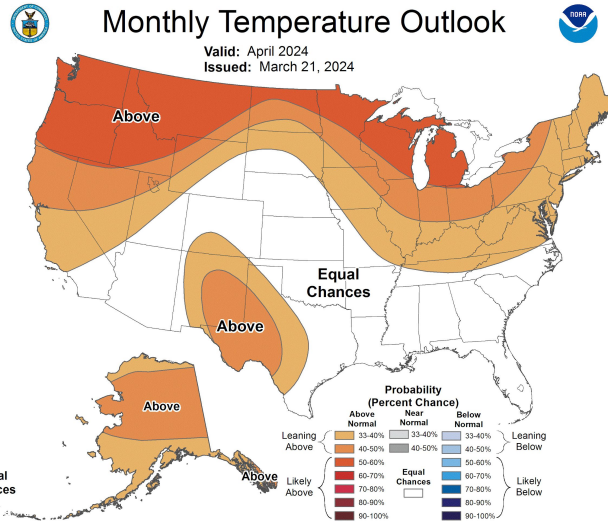




Long-Range Outlooks

The latest monthly and seasonal outlooks can be found on the [CPC homepage](#)

- Warmer than normal temperatures are possible for April for the DVN CWA.
- Equal chances for above or below normal precipitation amounts is possible for April in the DVN CWA and surrounding areas.





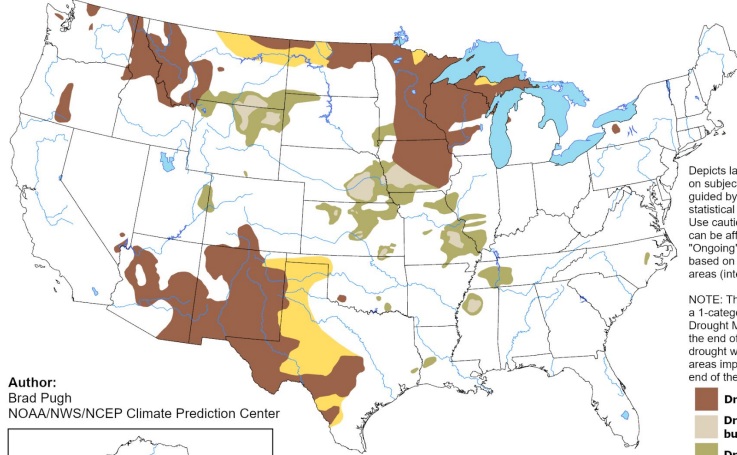
Drought Outlook

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- Drought will likely persist across the western part of the DVN CWA through the end of June.
- Drought conditions in the southern part of the DVN CWA will likely be removed by the end of June.

U.S. Seasonal Drought Outlook Drought Tendency During the Valid Period

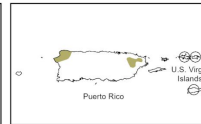
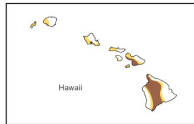
Valid for March 21 - June 30, 2024
Released March 21, 2024



Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. *Ongoing* drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to D4).

NOTE: The tan areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period, although drought will remain. The green areas imply drought removal by the end of the period (D0 or none).

Author:
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NOAA/NWS/NCEP Climate Prediction Center



- Drought persists
- Drought remains, but improves
- Drought removal likely
- Drought development likely
- No drought



<https://go.usa.gov/3eZ73>



National Oceanic and
Atmospheric Administration
U.S. Department of Commerce

National Weather Service
Quad Cities IA/IL