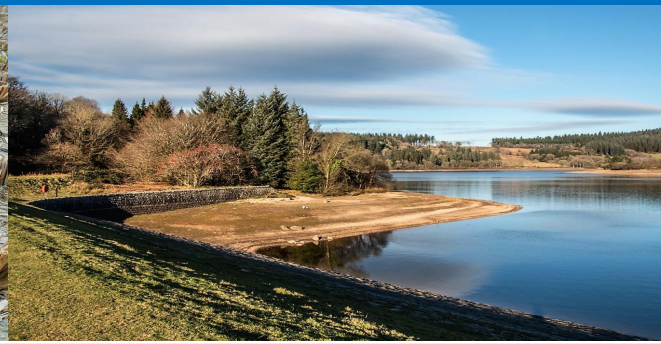
Drought Information Statement for Eastern IA, Northwest IL & Northeast MO

Valid November 3, 2023

Issued By: WFO Quad Cities IA/IL

Contact Information: nws.quadcities@noaa.gov

- This product will be updated November 17, 2023 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.

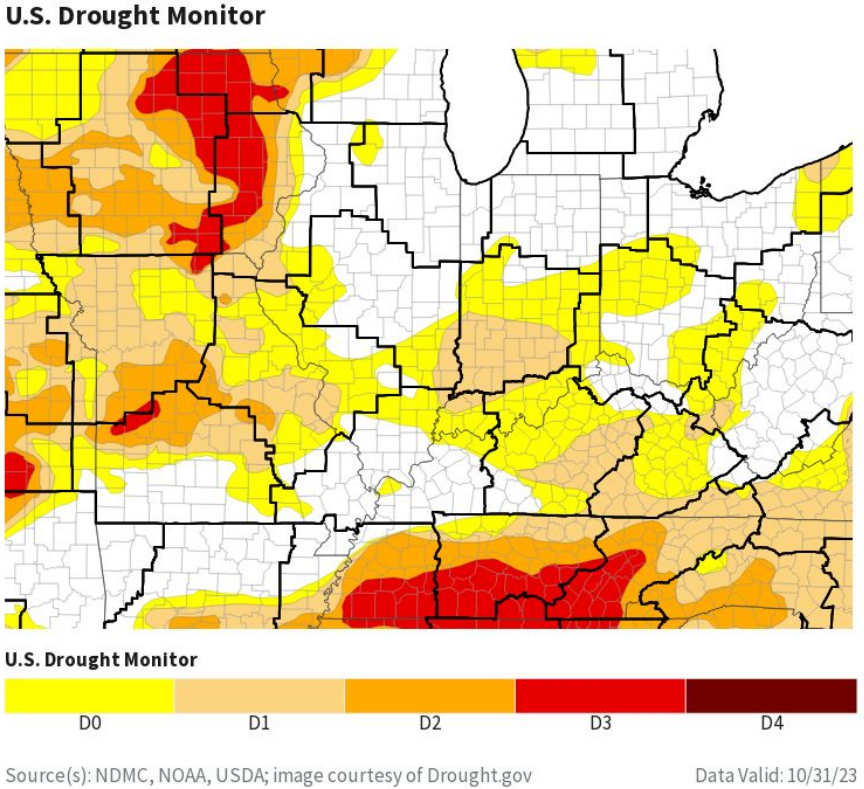


U.S. Drought Monitor

Link to the latest U.S. Drought Monitor

- Extreme Drought Conditions remain at same level in the DVN County Warning Area (CWA)

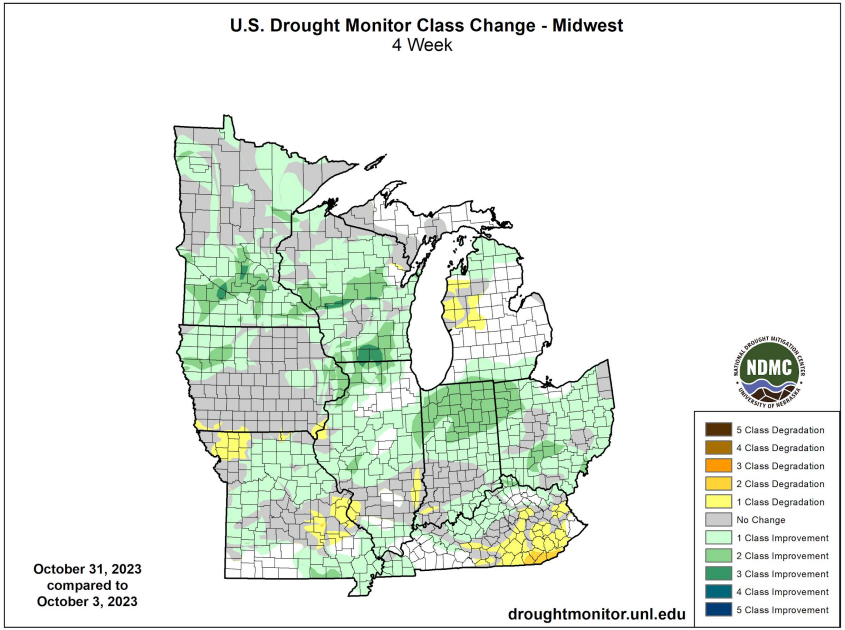
- Drought intensity and Extent
  - Widespread improvements have occurred over the past week.
  - D4 (Exceptional Drought): Now is entirely absent from the DVN CWA.
  - D3 (Extreme Drought): Now covers **21.86**% of the DVN CWA. Most of this is within eastern Iowa.
  - D2 (Severe Drought): Now covers **34.9%** of the DVN CWA, again with the majority being in eastern Iowa.
  - D1 (Moderate Drought): Now covers over **58.5%** of the DVN CWA.



Recent Change in Drought Intensity

Link to the latest 4-week change map for Midwest

- Four Week Drought Monitor Class Change.
  - **Drought Worsened:** Through much of southeast Kentucky, and northwest Missouri.
  - **No Change:** Areas scattered throughout the region have seen little to no change, including a bulk of the state of Iowa. Michigan remains majority drought free.
  - **Drought Improved:** Through many areas of the upper Midwest, and a large swath from western Missouri through northern Ohio.

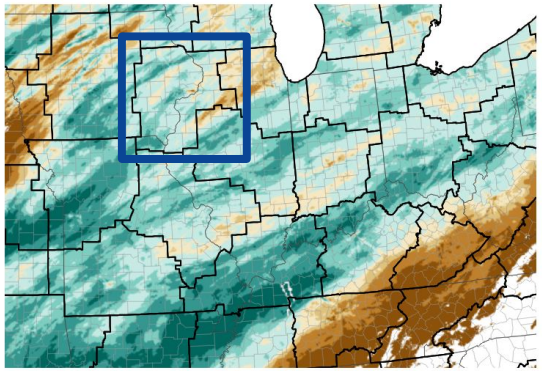


Precipitation

- Most of the DVN CWA saw near to below average rainfall in the previous week. Lowest amounts were around the Quad Cities area.

- Outside of the DVN CWA rainfall amounts were also very high in a band that stretched from southwest Missouri to eastern Ohio.

7-Day Percent of Normal Precipitation



Percent of Normal Precipitation (%)

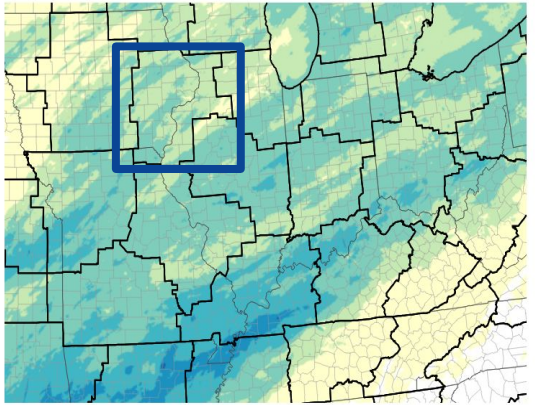
0% 25% 50% 75% 100%

100% 150% 200% 300%

Source(s): National Weather Service Multi-Radar Multi-Sensor System; image courtesy of Drought.gov

Last Updated: 11/03/23

7-Day Precipitation Accumulations (Inches)



Inches of Precipitation

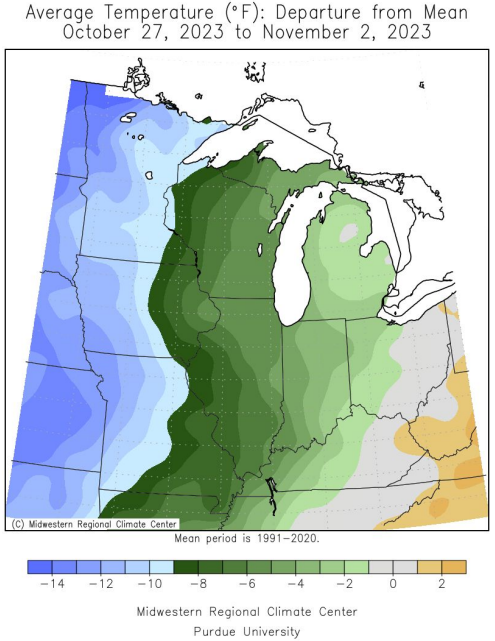
0 0.01 0.5 1 2 4 6 8

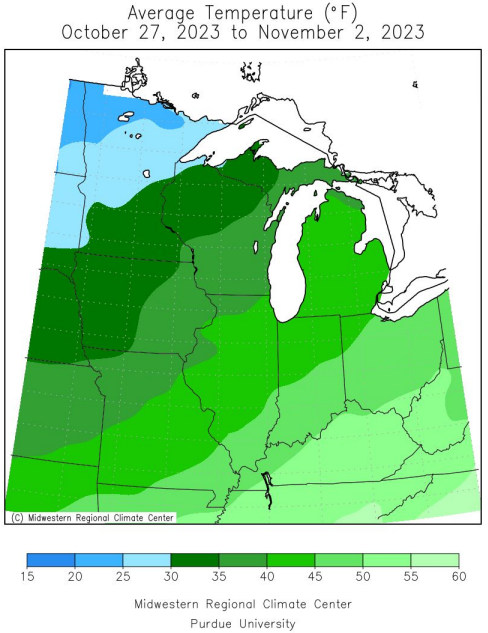
Source(s): National Weather Service Multi-Radar Multi-Sensor System; image courtesy of Drought.gov

Last Updated: 11/03/23

Temperature

- Average temperatures ranged between 35-45 degrees. This is well below normal.
- Regionally, temperatures were generally well below normal in the Midwest especially in the western parts of Minnesota, Iowa, and Missouri





Summary of Impacts

Links: See/submit Condition Monitoring Observer Reports (CMOR) and view the Drought Impacts Reporter

Hydrologic Impacts

- Streamflows remain much below normal across most basins in eastern Iowa and northeast Missouri. Most basins across Illinois are at or above normal. See the next slide for more details.

Agricultural Impacts

- Anomalously dry soils remain, with crop moisture abnormally to excessively dry throughout the region.

Other Impacts

- Rainfall is forecast next week and potentially could aid in some drought relief.

Mitigation Actions

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

Hydrologic Conditions and Impacts

- Many river levels have experiences slight rebounds throughout the DVN Hydrologic Service Area (HSA).
- Streamflows are running below to much below normal in many basins in Iowa.
- Despite the low levels, the Mississippi River still remains navigable at this time.

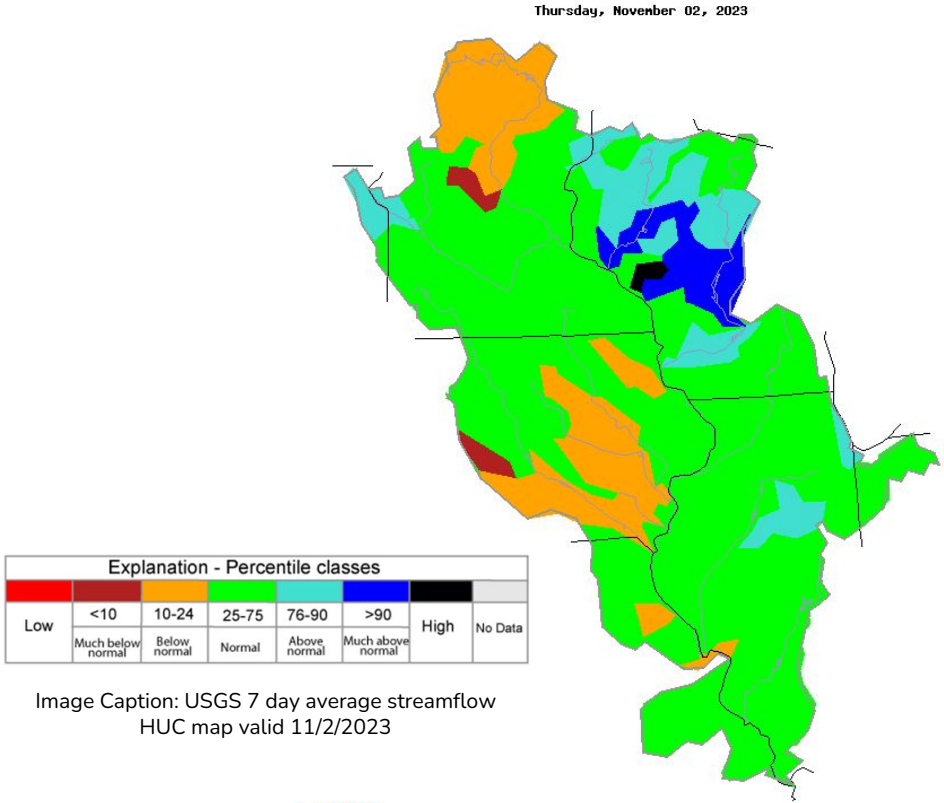
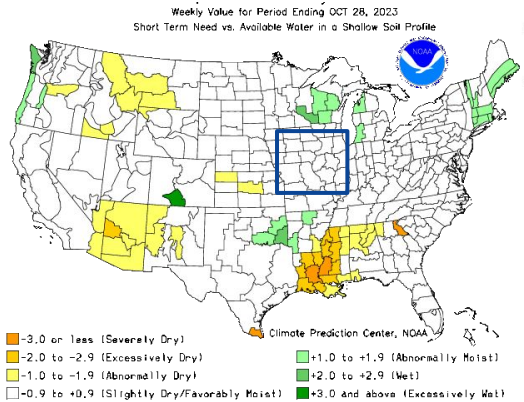


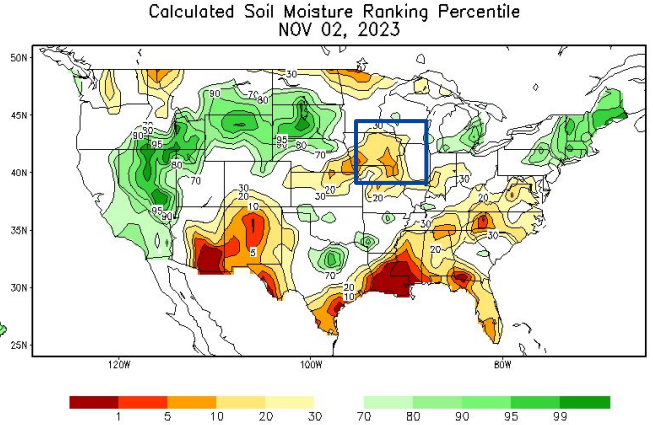
Image Caption: USGS 7 day average streamflow
HUC map valid 11/2/2023

Agricultural Impacts

- Locally, we are observing normal to below normal soil moisture conditions. The driest soils can be seen throughout eastern Iowa and Missouri.

- 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.

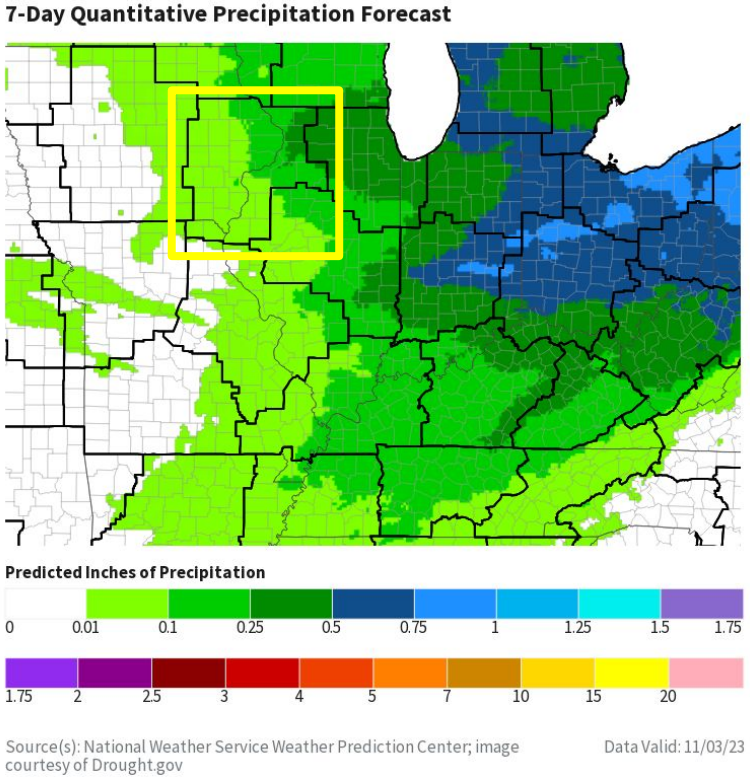




Seven Day Precipitation Forecast

- Through the next 7 days, we are expecting to see 0.5 inch or less of rain with varying local amounts possible.

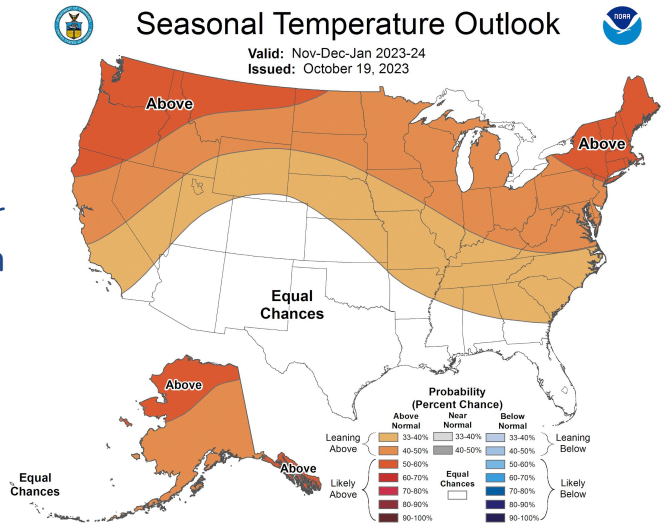
- If these precipitation totals occur, it is possible that we could see drought conditions worsen.

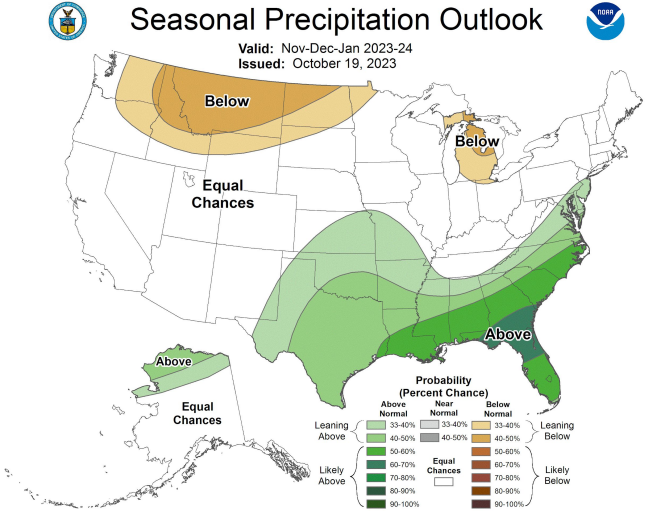


Long-Range Outlooks

The latest monthly and seasonal outlooks can be found on the CPC homepage

- Above normal chances for warmer than normal temperatures are favored from November to January for much of the northern half of the country.
- Equal chances for above or below normal precipitation amounts is possible from November to January in much of the Upper Midwest.





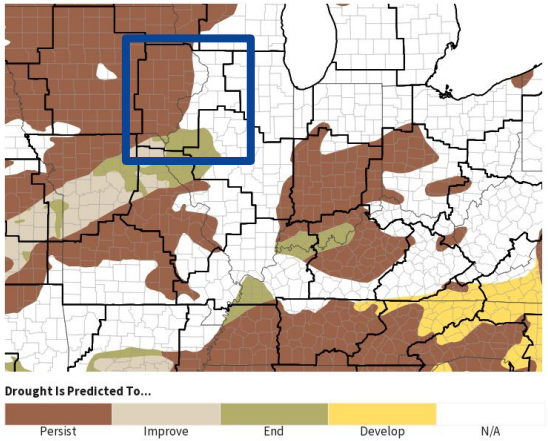
Drought Outlook

The latest monthly and seasonal outlooks can be found on the CPC homepage

- Drought will improve across the DVN CWA. Drought will likely be removed in far eastern areas of Iowa and Missouri as well as western Illinois.

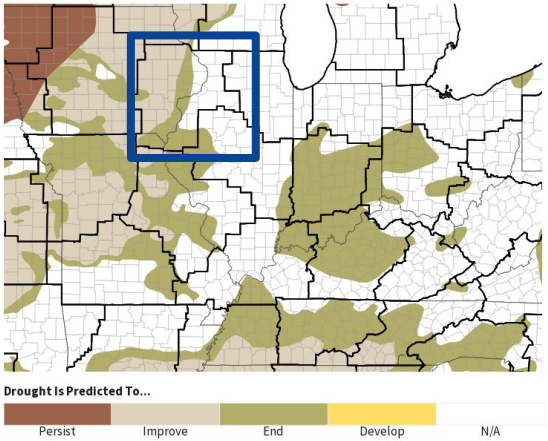
- Where drought conditions will remain, the impacts will gradually improve through the end of January.

1-Month Drought Outlook



Source(s): Climate Prediction Center; image courtesy of Drought.gov Data Valid: 10/31/23

Seasonal (3-Month) Drought Outlook



Source(s): Climate Prediction Center; image courtesy of Drought.gov Data Valid: 10/31/23

Links to the latest:
Climate Prediction Center Monthly Drought Outlook
Climate Prediction Center Seasonal Drought Outlook