

Drought Information Statement for Central and Southern Minnesota and Western Wisconsin

Valid November 7, 2024

Issued By: NWS Twin Cities / Chanhassen, MN

Contact Information:

- This product will be updated November 14, 2024 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/MPX/DroughtInformationStatement> for previous statements.
- Please visit <https://www.drought.gov/drought-status-updates/> for regional drought status updates.

- Drought continues to deepen over western Minnesota
- Drought begins to ease from New Ulm through the Twin Cities



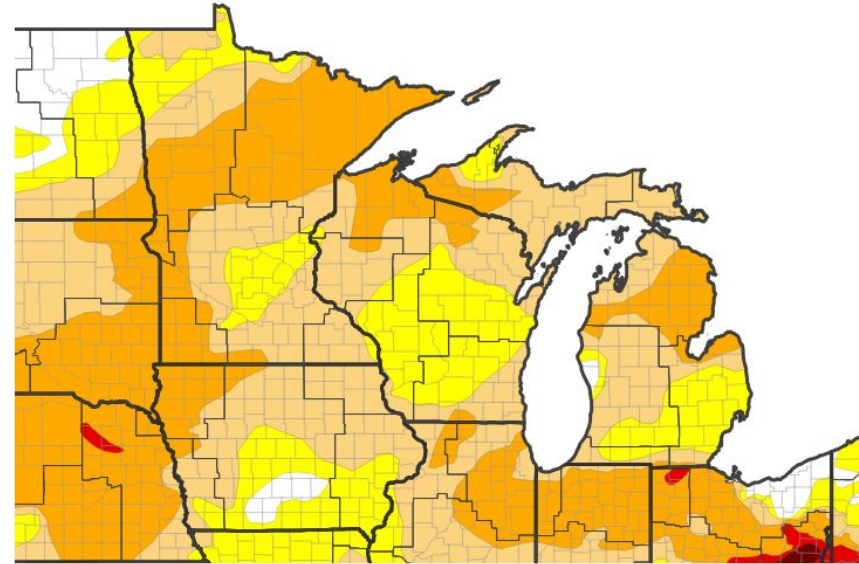


U.S. Drought Monitor

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

- Drought intensity and Extent
 - **D2 (Severe Drought)**: parts of central, western and southwest Minnesota along with northwest Wisconsin
 - **D1 (Moderate Drought)**: Much of central and southern Minnesota and western Wisconsin
 - **D0: (Abnormally Dry)**: the center of southern Minnesota

U.S. Drought Monitor



U.S. Drought Monitor



Source(s): NDMC, NOAA, USDA; image courtesy of Drought.gov

Data Valid: 11/05/24



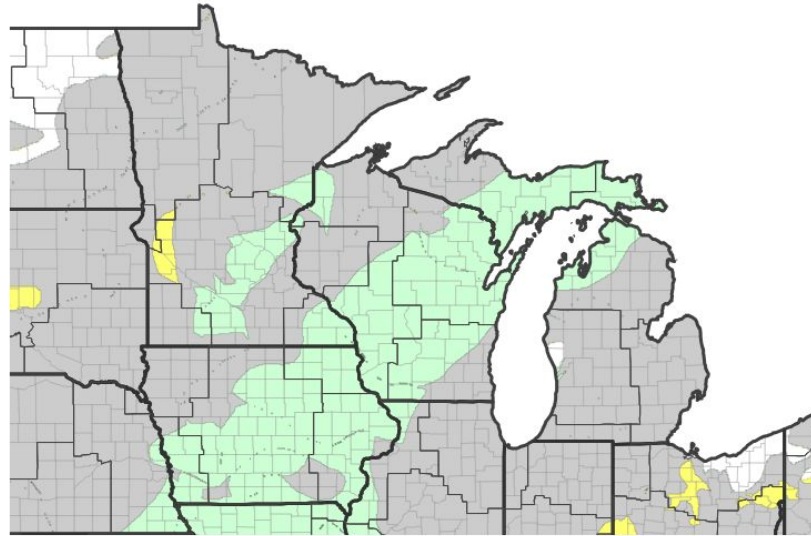


Recent Change in Drought Intensity

Link to the latest [1-week change map](#) and [4-week change map](#) for the NWS Twin Cities Region

- It was a mix of improvements where heavy rain and snow fell on Halloween and degradation in western Minnesota, which continues to get missed by heavier precipitation

U.S. Drought Monitor 1-Week Change Map



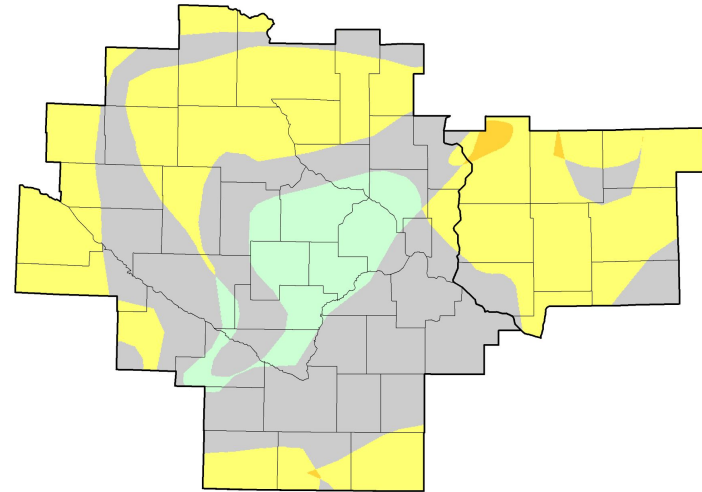
Drought Change Since Last Week



Source(s): NDMC, NOAA, USDA; image courtesy of Drought.gov

Data Valid: 11/05/24

U.S. Drought Monitor Class Change - Twin Cities/Chanhassen MN WFO



November 5, 2024 compared to October 8, 2024

4-week Change Map

droughtmonitor.unl.edu



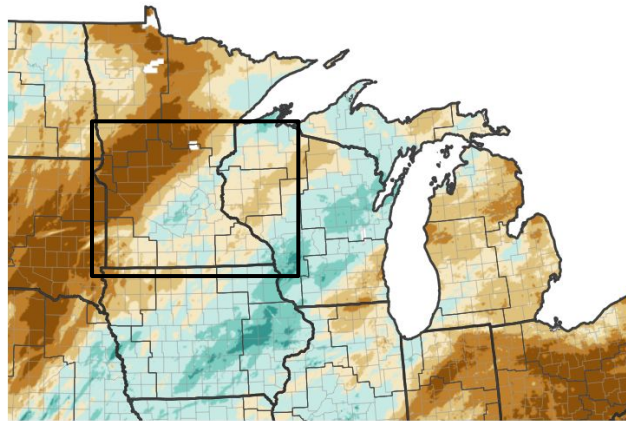


Precipitation Departures

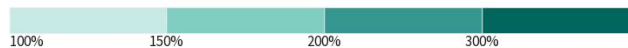
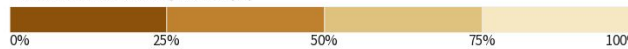
1-month and 3-month percent of normal precipitation

- Very dry conditions continue to persist from eastern South Dakota into central Minnesota
- Despite some improvements to deficits in the last 30 days from southern into eastern Minnesota, large precipitation deficits remain over the last 90 days

30-Day Percent of Normal Precipitation

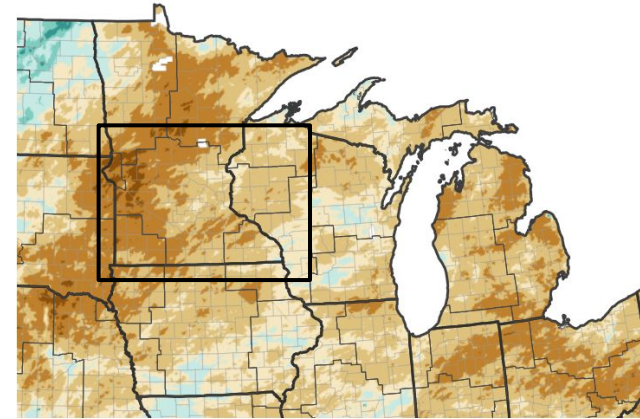


Percent of Normal Precipitation (%)

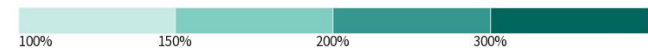
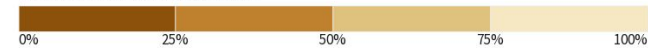


Source(s): National Weather Service Multi-Radar Multi-Sensor System; Last Updated: 11/07/24
image courtesy of Drought.gov

90-Day Percent of Normal Precipitation



Percent of Normal Precipitation (%)



Source(s): National Weather Service Multi-Radar Multi-Sensor System; Last Updated: 11/07/24
image courtesy of Drought.gov



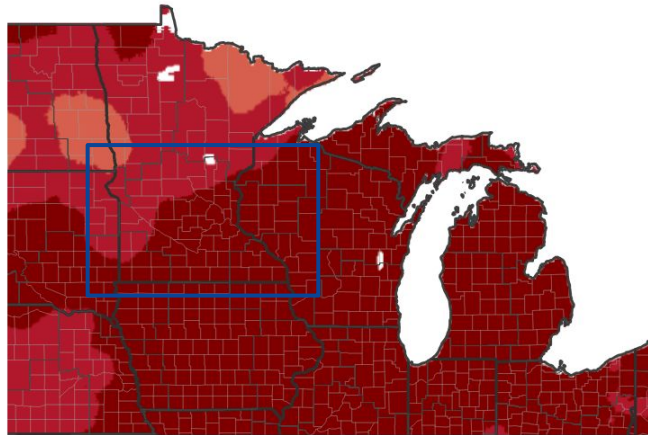


Temperature Departures

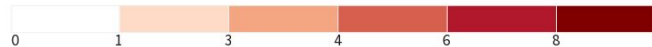
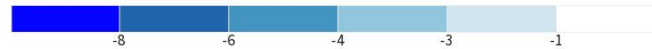
1-week and 1-month temperature departure

- Though we may have started to see rain again, one thing that has not changed is our continued trend this fall of seeing well above normal temperatures

7-Day Temperature Anomaly



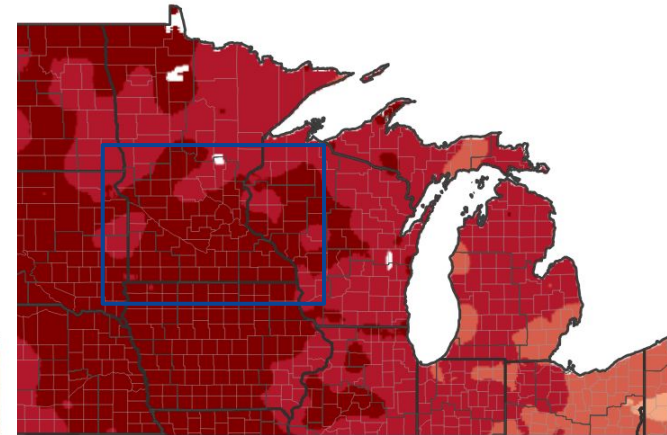
Departure from Normal Max Temperature (°F)



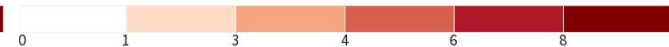
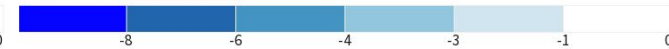
Source(s): NOAA's National Centers for Environmental Information; image courtesy of Drought.gov

Data Valid: 11/03/24

30-Day Temperature Anomaly



Departure from Normal Max Temperature (°F)



Source(s): NOAA's National Centers for Environmental Information; image courtesy of Drought.gov

Data Valid: 11/03/24





Summary of Impacts

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

Hydrologic Impacts

- Recent rains have helped to stabilize and improve streamflows across the area, though the upper Mississippi continues to struggle with low flows ([USGS Streamflow](#)).

Agricultural Impacts

- This drought has actually be beneficial for non-grazing agricultural activities, as this has been ideal weather for harvesting field crops ([State USDA Crop Reports](#)).

Fire Hazard Impacts

- Multiple precipitation events since the last week of October has greatly reduced the fire danger across Minnesota and Wisconsin ([MN Fire Danger](#), [WI Fire Danger](#)).

Other Impacts

- No known additional impacts.

Mitigation Actions

- None Currently in place.





Hydrologic Conditions and Impacts

Average streamflow for the past 7 days

- The headwaters of the Mississippi basin continues to have significantly reduced flows
- Recent rains have allowed all other basins to have they streamflows stabilize

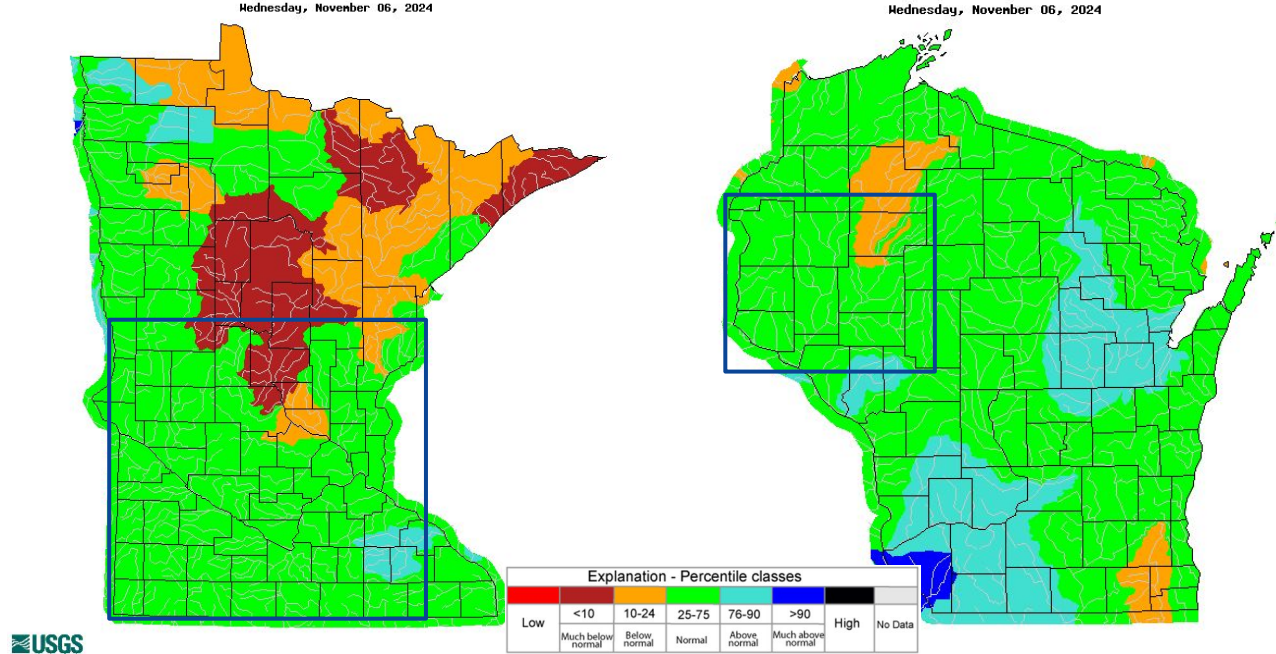


Image Caption: USGS 7-day Streamflow departure from normal for MN. Valid April 10, 2024

Image Caption: USGS 7-day Streamflow departure from normal for WI. Valid April 10, 2024

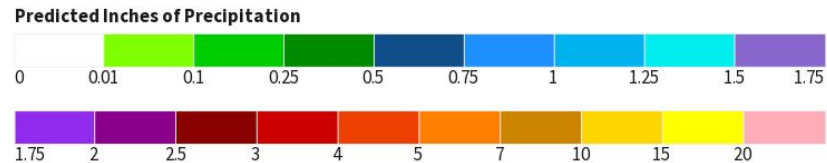
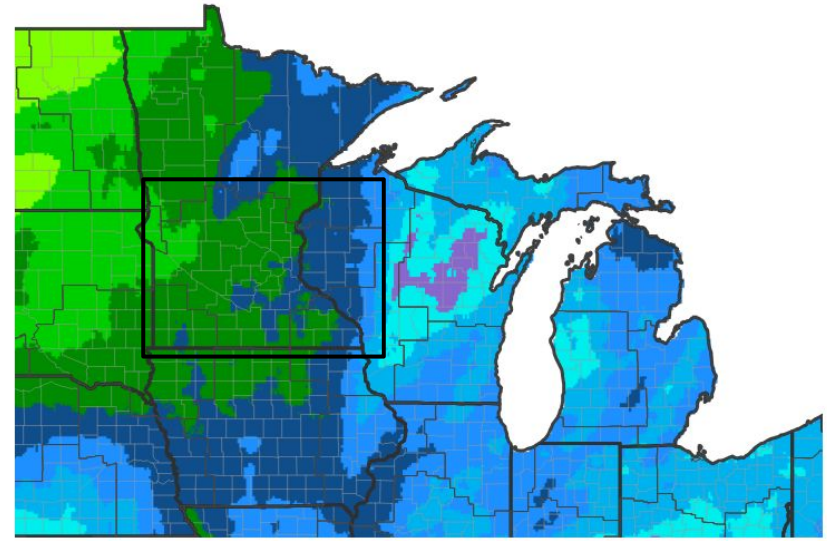




Seven Day Precipitation Forecast

- Our wet and active pattern is expected to continue for the next week, though the we'll continue to see a pattern where rainfall is lower in western Minnesota and higher in western Wisconsin

7-Day Quantitative Precipitation Forecast for November 7, 2024–November 14, 2024



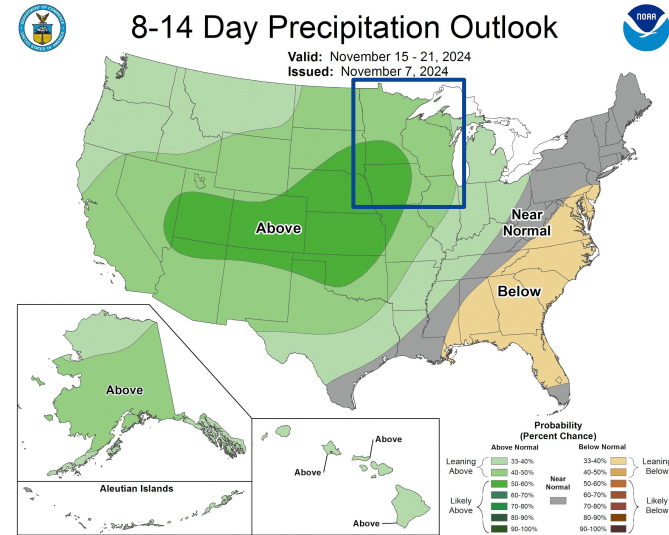
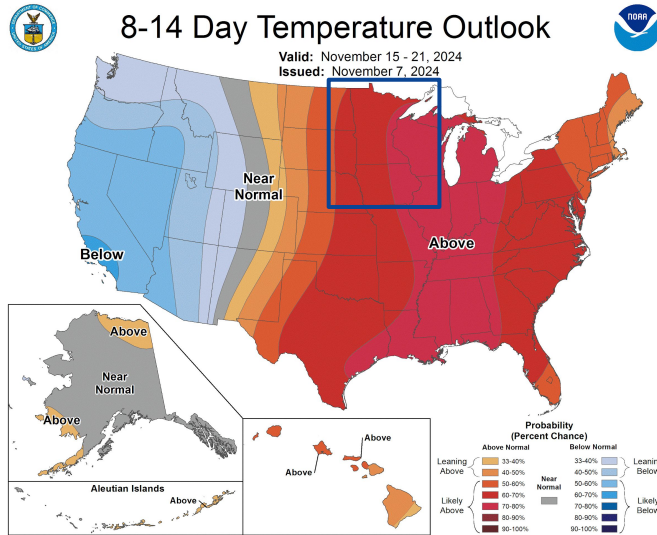
Source(s): National Weather Service Weather Prediction Center; image courtesy of Drought.gov Last Updated: 11/07/24



8-14 Day Outlooks

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

- Temperatures are expected to remain above normal
 - Though remember normal highs will be falling through the 40s!
- An active pattern is expected to continue into mid-November



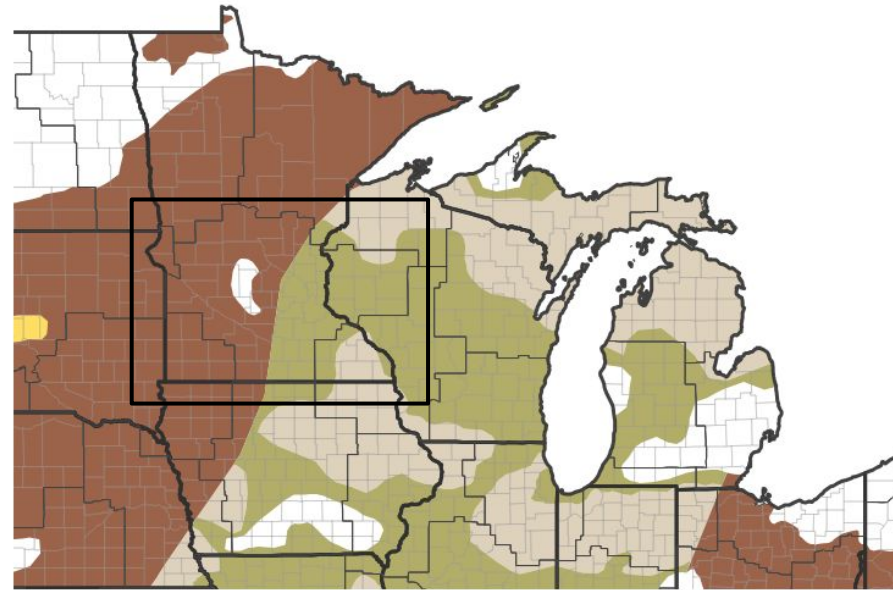


Drought Outlook

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

- A primary storm track from Texas into the Great Lakes is expected to continue to chip away at the drought across eastern Minnesota and Wisconsin during the rest of November
- Drought conditions are expected to persist through November in western Minnesota

1-Month Drought Outlook for November 1, 2024–November 30, 2024



Drought Is Predicted To...



Source(s): Climate Prediction Center; image courtesy of Drought.gov

Last Updated: 10/31/24

Links to the latest:

[Climate Prediction Center Monthly Drought Outlook](#)

[Climate Prediction Center Seasonal Drought Outlook](#)



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

National Weather Service
Twin Cities / Chanhassen



Drought Definitions and State Resources

What do those categories mean?

Drought Category Definitions:

D0	Abnormally Dry	Going into drought: <ul style="list-style-type: none"> Short-term dryness slowing planting, growth of crops or pastures 	Coming out of drought: <ul style="list-style-type: none"> Some lingering water deficits Pastures or crops not fully recovered
D1	Moderate Drought	<ul style="list-style-type: none"> Some damage to crops, pastures Streams, reservoirs, or wells low, some water shortages developing or imminent Voluntary water-use restrictions requested 	
D2	Severe Drought	<ul style="list-style-type: none"> Crop or pasture losses likely Water shortages common Water restrictions imposed 	
D3	Extreme Drought	<ul style="list-style-type: none"> Major crop/pasture losses Widespread water shortages or restrictions 	
D4	Exceptional Drought	<ul style="list-style-type: none"> Exceptional and widespread crop/pasture losses Shortages of water in reservoirs, streams, and wells creating water emergencies 	

Comprehensive Drought Information for Minnesota: <http://www.drought.gov/state/minnesota>

Comprehensive Drought Information for Wisconsin: <http://www.drought.gov/state/wisconsin>

These sites contain links to resources from each state, to help you dive into drought information in more detail.

