



Drought Information Statement for NE Minnesota & NW Wisconsin

Valid November 22, 2024

Issued By: NWS Duluth, MN

Contact Information:

- Next Update: Friday, December 6, 2024
 - Please see all currently available products at <https://drought.gov/drought-information-statements>.
 - Please visit <https://www.weather.gov/DLH/DroughtInformationStatement> for previous statements.
 - Please visit <https://www.drought.gov/drought-status-updates/> for regional drought status updates.
-
- Severe Drought conditions have improved to Moderate Drought conditions for the North Shore, Brainerd Lakes and into the Twin Ports over the last two weeks. The North Shore experienced a heavy rainfall of 2 to 4 inches Monday into Tuesday of this week, with a widespread 0.5 to 1.25 inches of rain across the rest of the Northland.



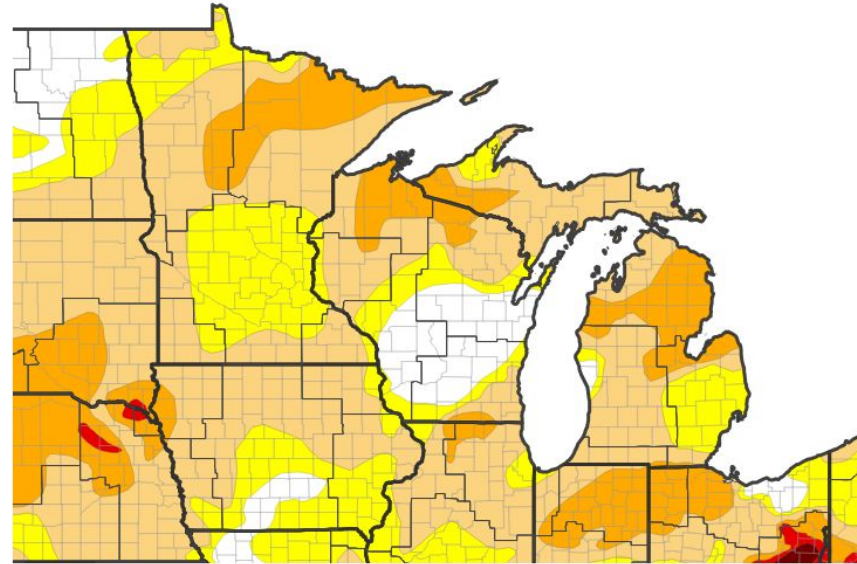


U.S. Drought Monitor

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

- Drought intensity and Extent
 - **D2 (Severe Drought)**: Arrowhead, Iron Range, Leech Lake area, South Shore, and part of inland northwest Wisconsin.
 - **D1 (Moderate Drought)**: The remainder of inland northwest Wisconsin not in a Severe Drought, North Shore, Twin Ports and Brainerd Lakes.
 - **D0: (Abnormally Dry)**: Near International Falls and in the St. Croix River Valley.

U.S. Drought Monitor



U.S. Drought Monitor



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

Data Valid: 11/19/24



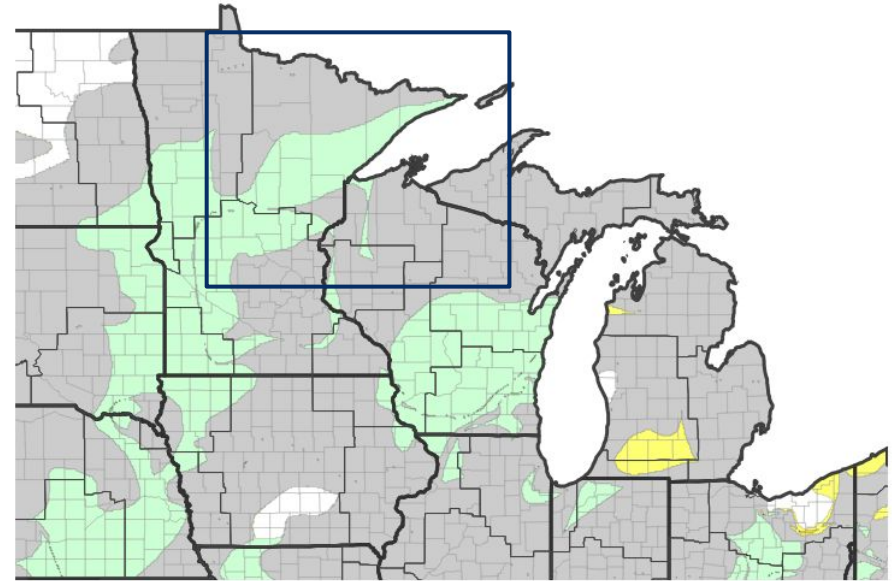


Recent Change in Drought Intensity

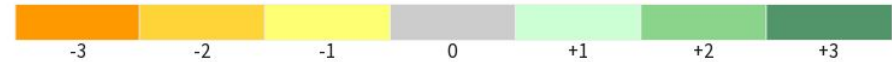
Link to the latest [4-week change map](#) for NE Minnesota and NW Wisconsin

- One Week Drought Monitor Class Change.
 - Drought Worsened: Not Applicable.
 - No Change: The remainder of the Northland that didn't see drought improve.
 - Drought Improved: North Shore, Twin Ports and the Brainerd Lakes.

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: 11/19/24



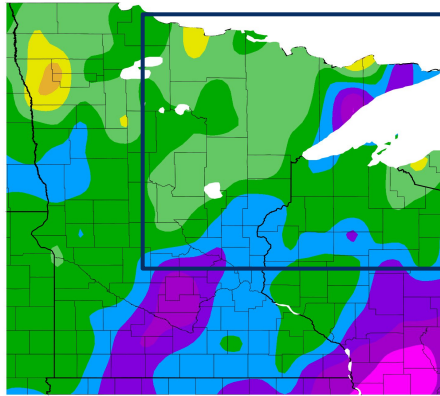


Precipitation

Precipitation (sum of liquid and melted frozen) that was observed in the Northland over the last month

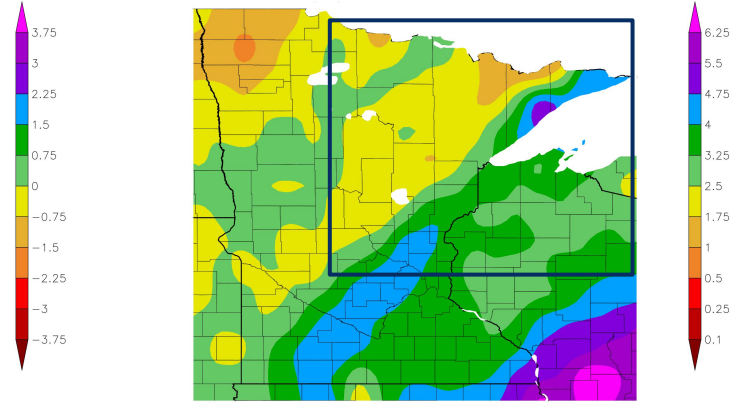
- Regional precipitation in the past month ranges from slightly-below normal to a small pocket of well-above normal.
 - Small parts of the North Shore and east-central Minnesota are above normal for rainfall. The North Shore observed a general 2-4 inches of rainfall this past Monday into Tuesday.
 - A few pockets of the Borderlands are below-normal.
 - The remainder of the Northland is within +/- 0.5 inches of normal rainfall over the past month.

Departure from Normal Precipitation (in)
10/23/2024 - 11/21/2024



Generated 11/22/2024 at HPRCC using provisional data.

Precipitation (in)
10/23/2024 - 11/21/2024



NOAA Regional Climate Centers Generated 11/22/2024 at HPRCC using provisional data.

NOAA Regional Climate Center



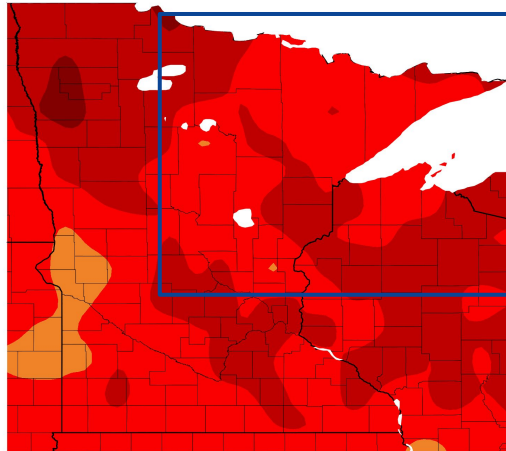


Temperature

Temperatures that were observed in the Northland over the last month

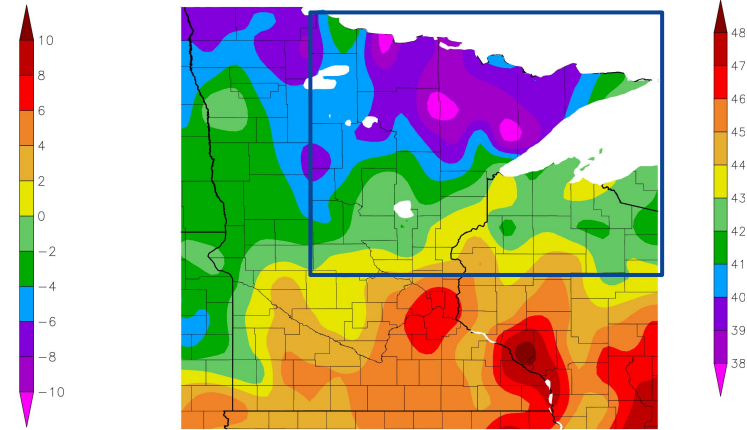
- Temperatures have been an average of 4°F to 8°F above normal across the entire Northland over the past month.

Departure from Normal Temperature (F)
10/23/2024 – 11/21/2024



Generated 11/22/2024 at HPRCC using provisional data.

Temperature (F)
10/23/2024 – 11/21/2024



dated 11/22/2024 at HPRCC using provisional data.

NOAA Regional Climate Ce

NOAA Regional Climate Centers





Summary of Impacts

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

Hydrologic Impacts

- Streamflows are running much-below to normal for all of northeast Minnesota. Northwest Wisconsin streamflows are normal ([USGS Streamflow](#)).

Agricultural Impacts

- Pockets of well-below normal soil moisture in northeast Minnesota and northwest Wisconsin, but the vast majority of the region is only below to normal soil moisture ([Soil Moisture](#))

Fire Hazard Impacts

- Fire danger is Low for north-central and northeast Minnesota ([MN Fire Danger](#)). Fire danger is also Low for northwest Wisconsin ([WI Fire Danger](#)).

Other Impacts

- Less water for wildlife.
- Change in wetlands, swamps, and creeks.

Mitigation Actions

- Burn Restrictions - Burning permits are required in [northeast Minnesota](#).





Hydrologic Conditions and Impacts

- **Northeast Minnesota** - Streams are running much-below to normal for all of northeast Minnesota.
- **Northwest Wisconsin** - Streams are running around normal to a few being below normal in northwest Wisconsin

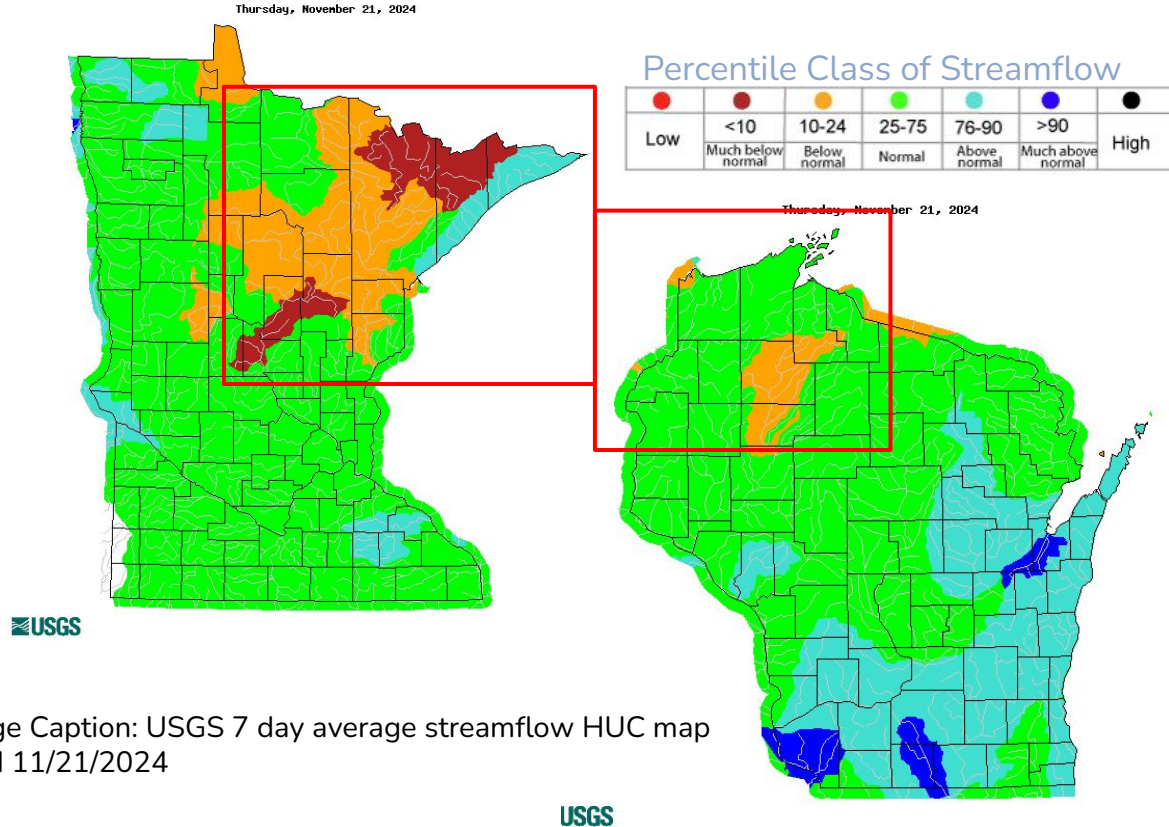


Image Caption: USGS 7 day average streamflow HUC map valid 11/21/2024

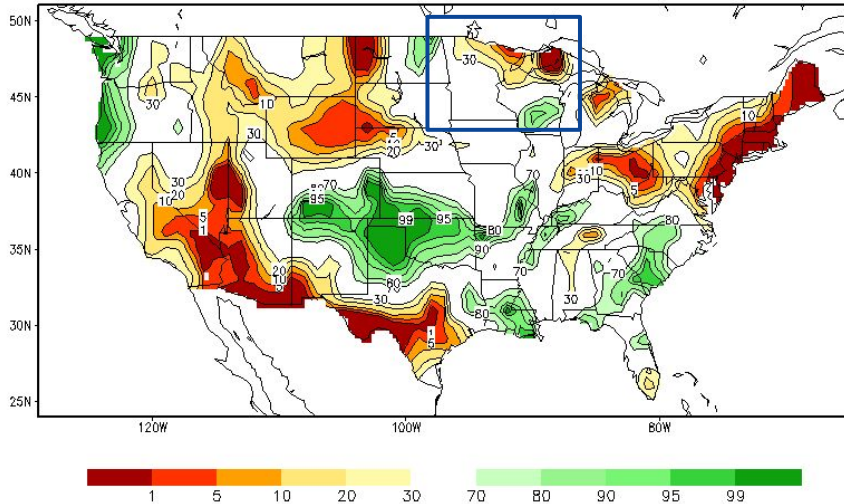




Agricultural Impacts

- Pockets of well-below normal soil moisture in northeast Minnesota and northwest Wisconsin, but the vast majority of the region is only below to normal soil moisture

Calculated Soil Moisture Ranking Percentile
NOV 20, 2024

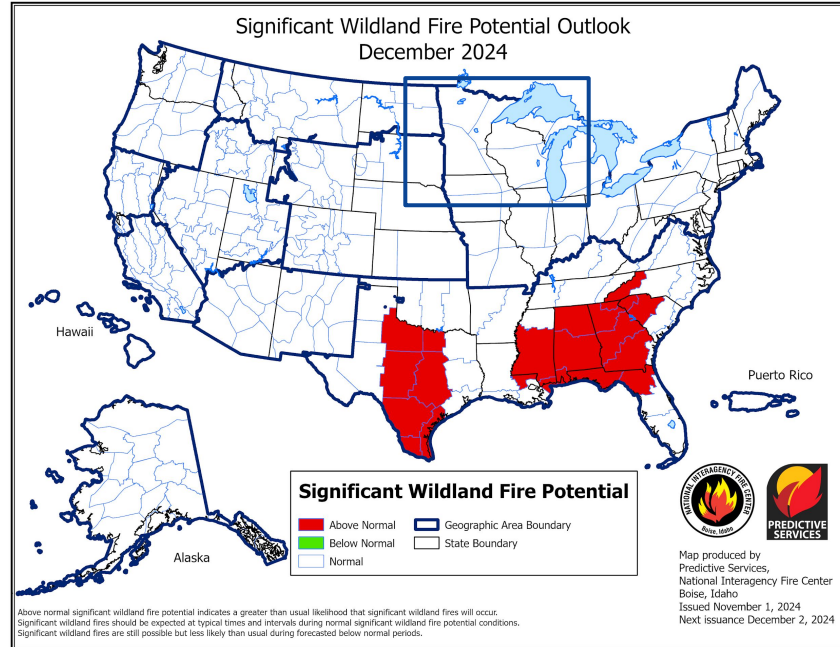




Fire Hazard Impacts

Link to [Wildfire Potential Outlooks from the National Interagency Coordination Center.](#)

- **Significant Wildland Fire Potential** conditions are normal for **December**.



Latest MN burn ban and fire danger information available [here](#).

Latest WI burn ban and fire danger information available [here](#).



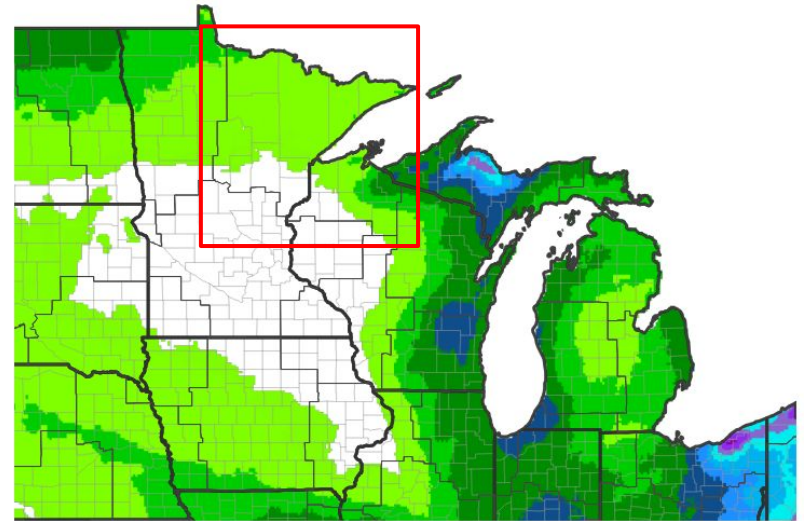


Seven Day Precipitation Forecast

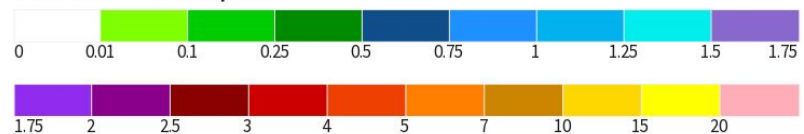
Amount of liquid equivalent precipitation forecast over the next seven days

- A weak clipper is forecast to move through Manitoba and northwest Ontario Sunday November 24th. This could (30-60% chance) bring 1-3" of snowfall to the Northland. The highest amount closer to 2-3" are expected north of the Iron Range and into the Arrowhead.
- South Shore snowbelt locations then see additional light snow chances Monday November 25th.

7-Day Quantitative Precipitation Forecast for November 21, 2024–November 28, 2024



Predicted Inches of Precipitation



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

Last Updated: 11/21/24





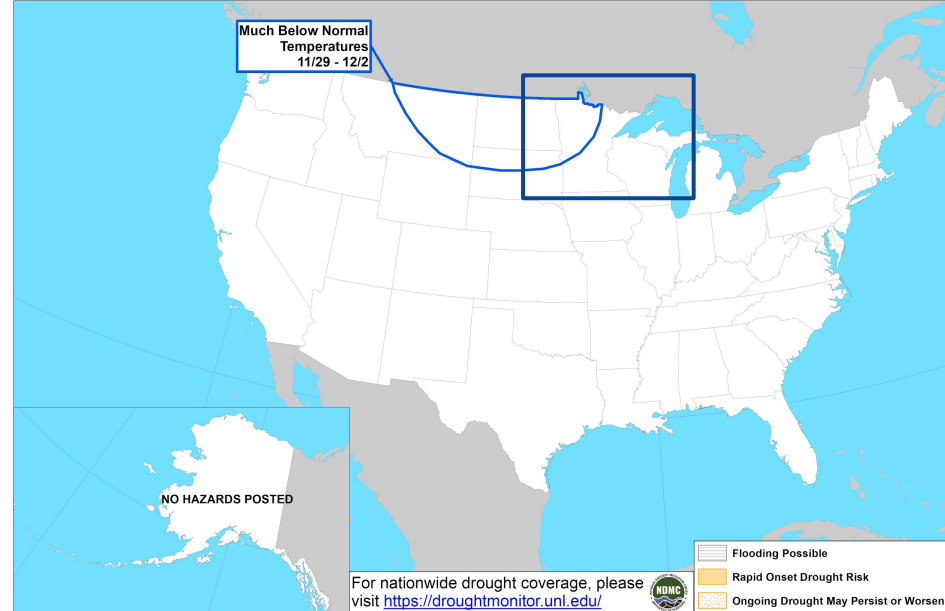
Rapid Onset Drought Outlook

Links to the latest Climate Prediction Center 8 to 14 day [Temperature Outlook](#) and [Precipitation Outlook](#).

- No rapid onset drought expected.



Day 8-14 U.S. Hazards Outlook
Valid: 11/29/2024-12/05/2024



Climate Prediction Center
Made: 11/21/2024 3PM EST



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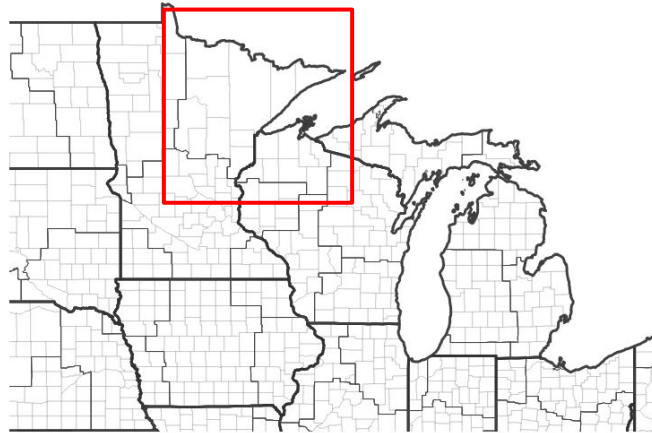


Long-Range Outlooks

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

- Longer-term forecasts show no significant signals for either above normal or below normal temperatures for the month of December.
- Longer-term forecasts show no significant signals for either above normal or below normal precipitation for the month of December.

Monthly Precipitation Outlook for December 1, 2024–December 31, 2024



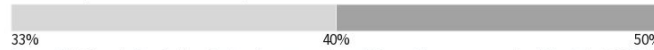
Probability of Below-Normal Precipitation



Probability of Above-Normal Precipitation



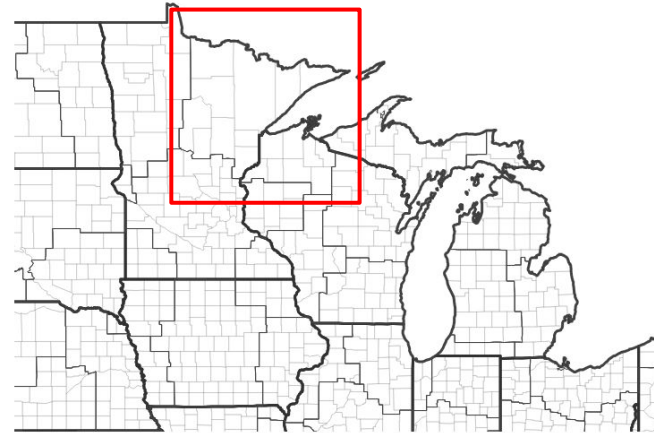
Probability of Near-Normal Precipitation



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

Last Updated: 11/21/24

Monthly Temperature Outlook for December 1, 2024–December 31, 2024



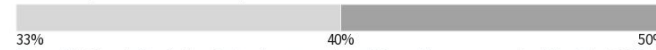
Probability of Below-Normal Temperatures



Probability of Above-Normal Temperatures



Probability of Near-Normal Temperatures



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

Last Updated: 11/21/24



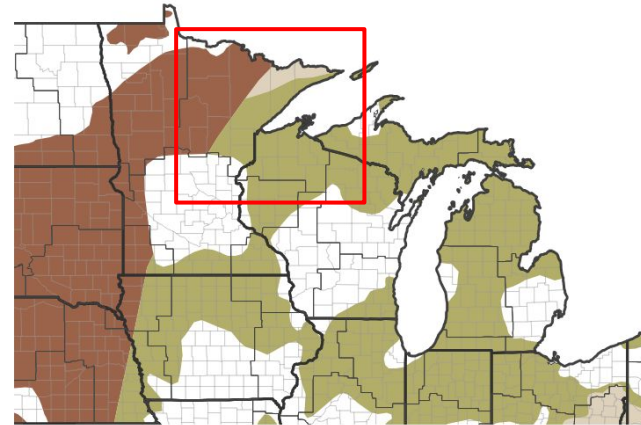


Drought Outlook

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

- Drought is expected to persist in north-central MN, improve in the northern Arrowhead, and end in the Twin Ports to North Shore and across northwest Wisconsin.

Seasonal (3-Month) Drought Outlook for November 21, 2024–February 28, 2025



Drought Is Predicted To...



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

Last Updated: 11/21/24

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
Duluth, MN