



Drought Information Statement for Northeastern Wyoming and Western South Dakota

Valid October 17, 2024

Issued By: National Weather Service Rapid City, SD

Contact Information: nws.rapidcity@noaa.gov

- This product will be updated November 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/unr/DroughtInformationStatement> for previous statements.
 - Please visit <https://www.drought.gov/drought-status-updates> for regional drought status updates.
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- Exceptional (D4) Drought to Moderate (D1) Drought extend across all of northeastern Wyoming and most of western South Dakota.
 - Very warm and windy conditions continue to exacerbate drought conditions.



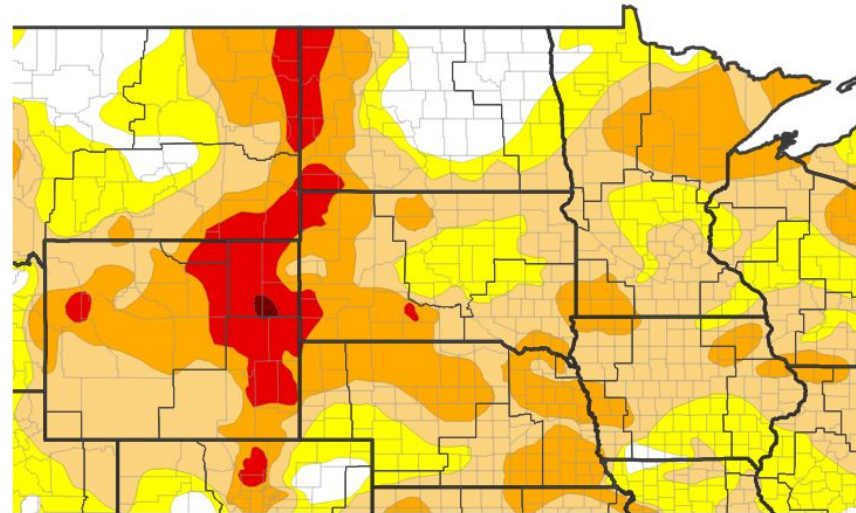


U.S. Drought Monitor

Link to the [latest U.S. Drought Monitor](#) for northeastern Wyoming and western South Dakota

- Drought intensity and Extent
 - **D4 (Exceptional Drought):** Portions of southeastern Campbell and southwestern Weston Counties.
 - **D3 (Extreme Drought):** Portions of Campbell, Crook, Weston, Harding, Pennington, Custer, Fall River and Mellette.
 - **D2 (Severe Drought):** Portions of Crook, Weston, Harding, Perkins, Butte, Meade, Lawrence, Pennington, Custer, Fall River, Oglala Lakota, Jackson, Bennett, Mellette, and Todd Counties.
 - **D1 (Moderate Drought):** Portions of Crook, Butte, Lawrence, Meade, Perkins, Ziebach, Pennington, Haakon and Tripp Counties.
 - **D0: (Abnormally Dry):** Eastern Portions of Haakon County.

U.S. Drought Monitor



U.S. Drought Monitor



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

Data Valid: 10/15/24

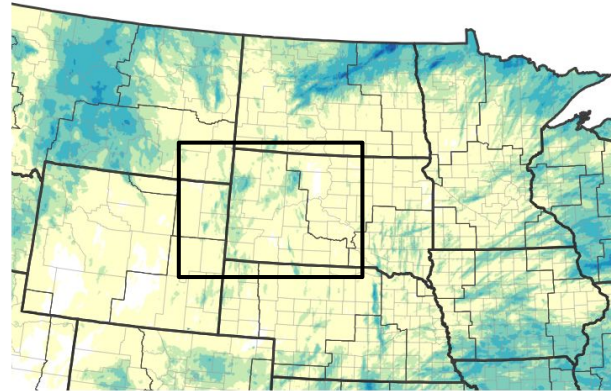




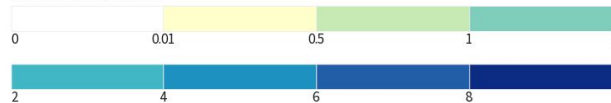
Precipitation: Last 30 Days

- Below normal precipitation the past 30 days across northeastern Wyoming and western South Dakota.
- A few isolated pockets of above average precipitation across the area, but not enough to help drought conditions.

30-Day Precipitation Accumulations (Inches)

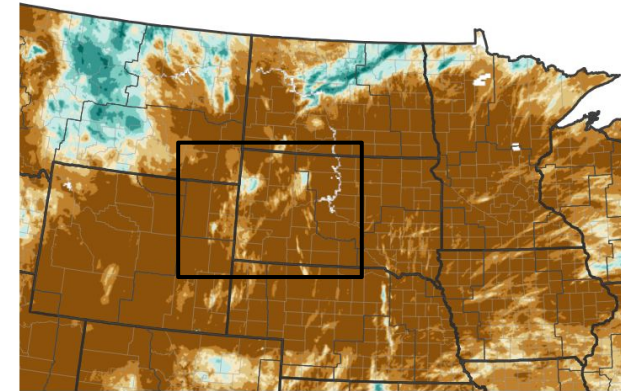


Inches of Precipitation

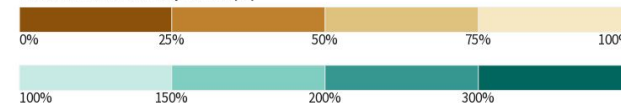


Source(s): National Weather Service Multi-Radar Multi-Sensor System; image courtesy of Drought.gov Last Updated: 10/17/24

30-Day Percent of Normal Precipitation



Percent of Normal Precipitation (%)



Source(s): National Weather Service Multi-Radar Multi-Sensor System; image courtesy of Drought.gov Last Updated: 10/17/24



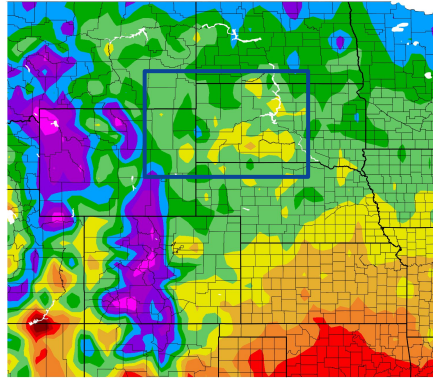


Temperature: Last 30 Days

Link to the [High Plains Regional Climate Center](#).

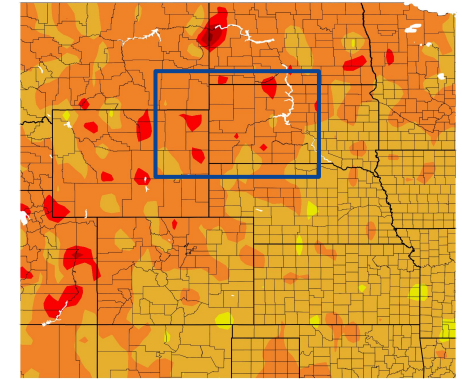
- Above average temperatures were reported across all of northeastern Wyoming and western South Dakota.

Temperature (F)
9/17/2024 - 10/16/2024



Generated 10/17/2024 at HPRCC using provisional data.

Departure from Normal Temperature (F)
9/17/2024 - 10/16/2024



NOAA Regional Climate Centers Generated 10/17/2024 at HPRCC using provisional data.

NOAA Regional Climate Centers





Summary of Impacts

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

Hydrologic Impacts

- Most streams and rivers are much below normal to normal for this time of the year. Additional information from the USGS may be found [here](#).

Agricultural Impacts

- USDA Crop Progress and Condition reports: [South Dakota](#) and [Wyoming](#).

Fire Hazard Impacts

- Please visit [Great Plains Fire Information](#) for the latest fire restrictions.

Other Impacts

- The dry, very warm, and windy conditions have caused the area to be very dry.

Mitigation Actions

- None reported.



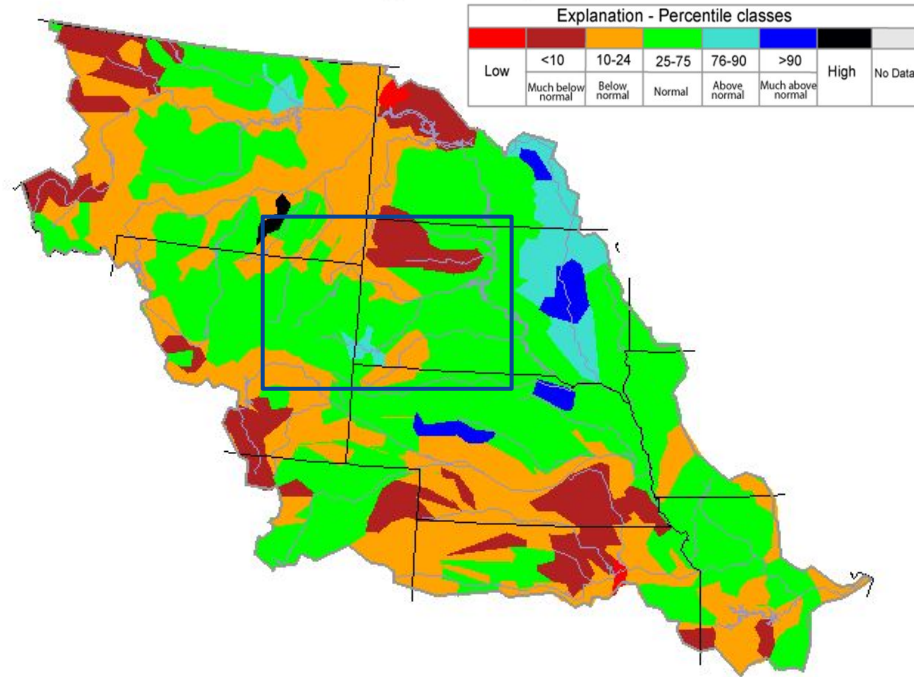


Hydrologic Conditions and Impacts

- USGS 7-day average streamflow HUC map compared to historical streamflow for the day of the year.

River Basin	7-day Average Streamflow
Powder	Below Normal
Little Missouri	Below Normal to Normal
Belle Fourche	Below Normal
Grand	Much Below Normal
Moreau	Much Below Normal
Cheyenne	Normal
White	Below Normal to Normal
Keyapaha	Normal

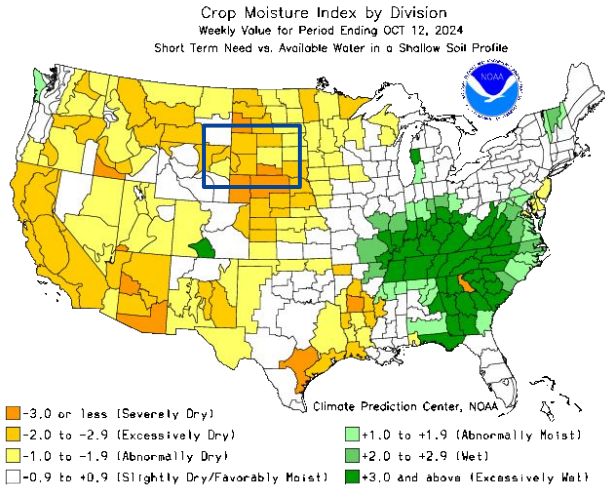
Wednesday, October 16, 2024



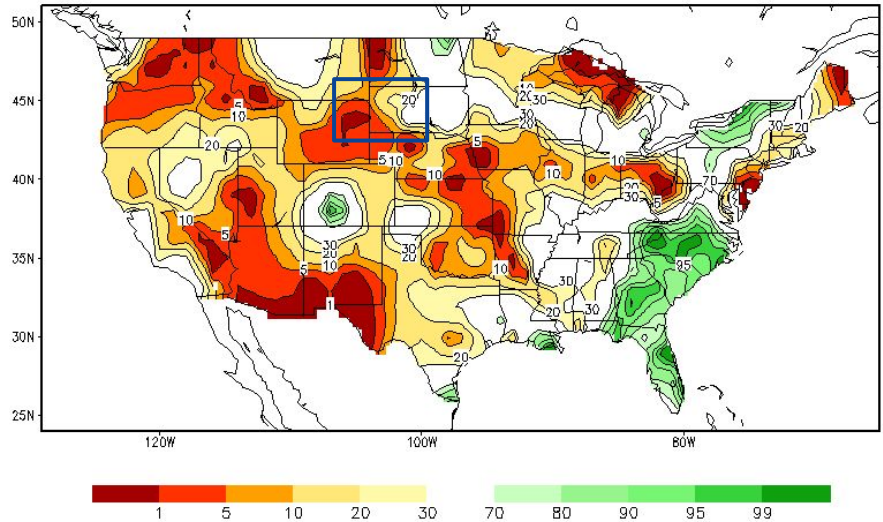


Agricultural Impacts

- USDA Crop Progress and Conditions Reports for [South Dakota](#) and [Wyoming](#).



Calculated Soil Moisture Ranking Percentile
OCT 16, 2024



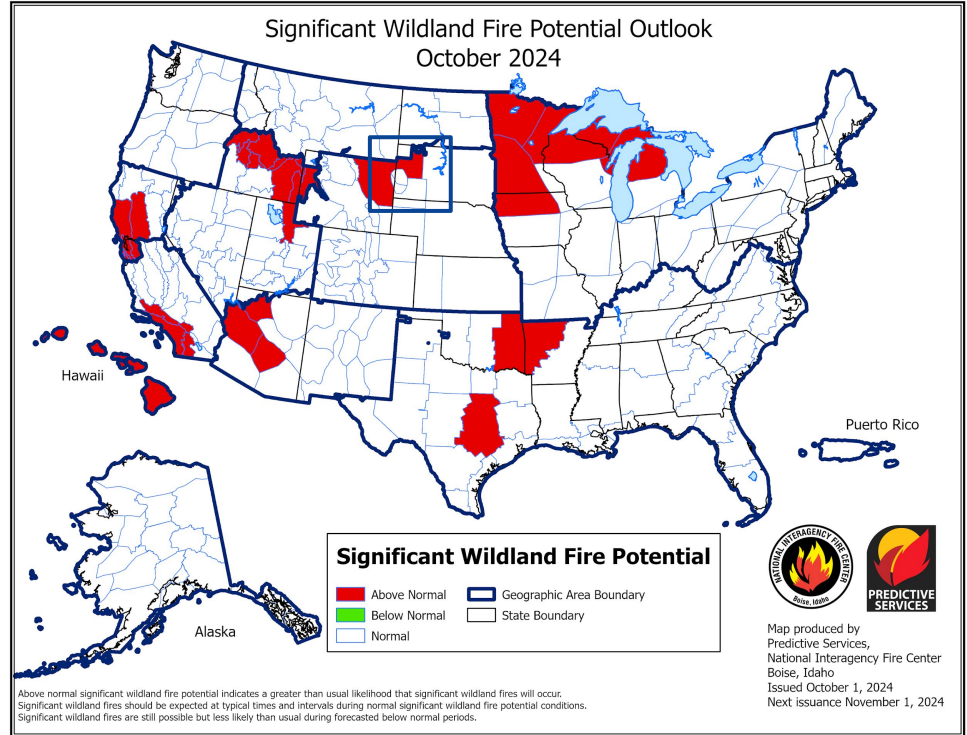


Fire Hazard Impacts

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

- The significant wildland fire potential outlook for October is above normal.

[Great Plains Fire Information](#)
[Fire Information for Resource Management System](#)
[Hazard Mapping System Fire and Smoke Product](#)
[South Dakota Grassland Fire Danger Map](#)





Long-Range Outlooks

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

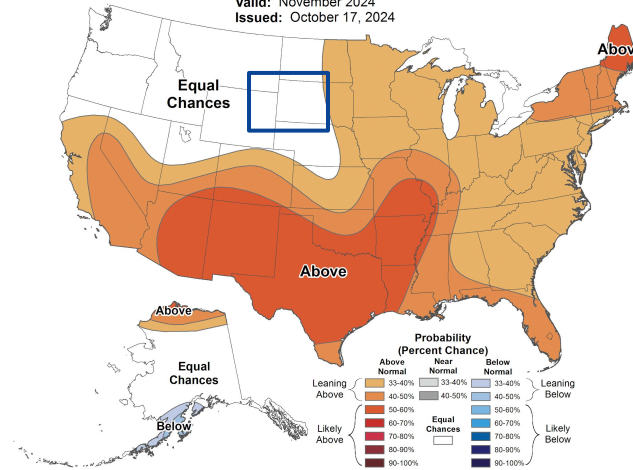
- There are equal chances for above, below and near normal temperatures and precipitation in November.



Monthly Temperature Outlook



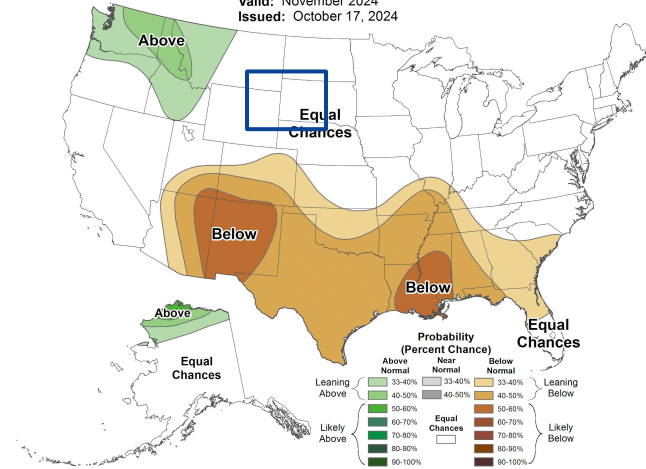
Valid: November 2024
Issued: October 17, 2024



Monthly Precipitation Outlook



Valid: November 2024
Issued: October 17, 2024





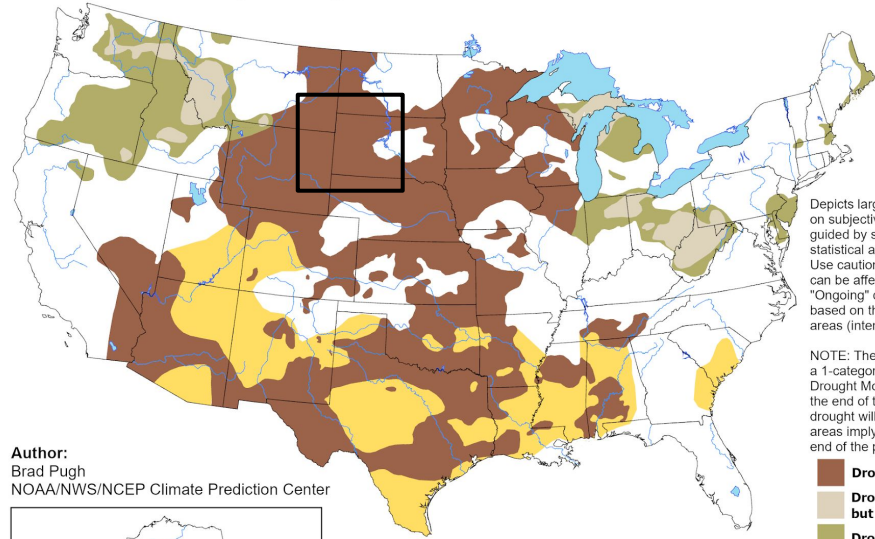
Drought Outlook

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

- Drought conditions are expected to persist over northeastern Wyoming and western South Dakota.

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

Valid for October 17, 2024 - January 31, 2025
Released October 17, 2024

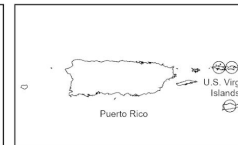
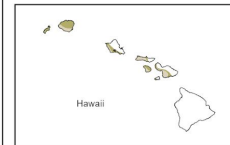


Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to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

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

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

Links to the latest:

- [Climate Prediction Center Monthly Drought Outlook](#)
- [Climate Prediction Center Seasonal Drought Outlook](#)

