



# Drought Information Statement for the Tri-State Area

Valid January 02, 2024

Issued By: WFO Goodland Kansas

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- This product will be updated by the 5th of each 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/gld/DroughtInformationStatement> for previous statements.





# U.S. Drought Monitor

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

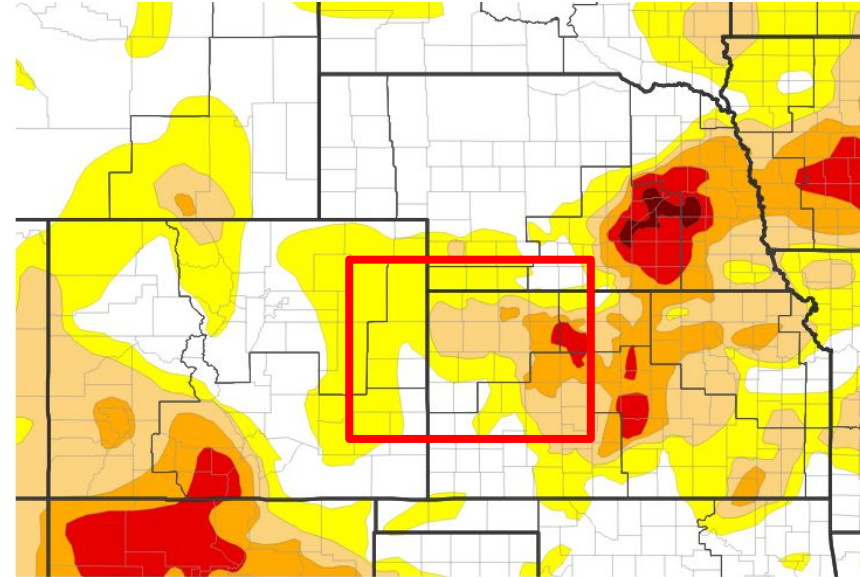
- Drought intensity and Extent

**D3 (Extreme Drought): Graham**

**D2 (Severe Drought): Decatur, Norton, Gove**

**D1 (Moderate Drought): Cheyenne (KS), Rawlins, Sherman, Thomas, Sheridan, Wallace, Logan**

**D0: (Abnormally Dry): Red Willow, Hitchcock, Dundy, Yuma, Kit Carson, Cheyenne (CO)**



U.S. Drought Monitor



Image Caption: Goodland County Warning Area Drought Monitor. Valid

6am MDT Jan 01, 2024





# Recent Change in Drought Intensity

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

- 4 Week Drought Monitor Class Change.

Drought Worsened: Red Willow, Hitchcock, Sherman, Thomas, Wallace, Logan

No Change: Yuma, Dundy, Cheyenne (KS), Rawlins, Decatur, Norton, Graham, Sheridan, Gove

Drought Improved: Cheyenne (CO), Greeley, Wichita, Kit Carson, Sherman

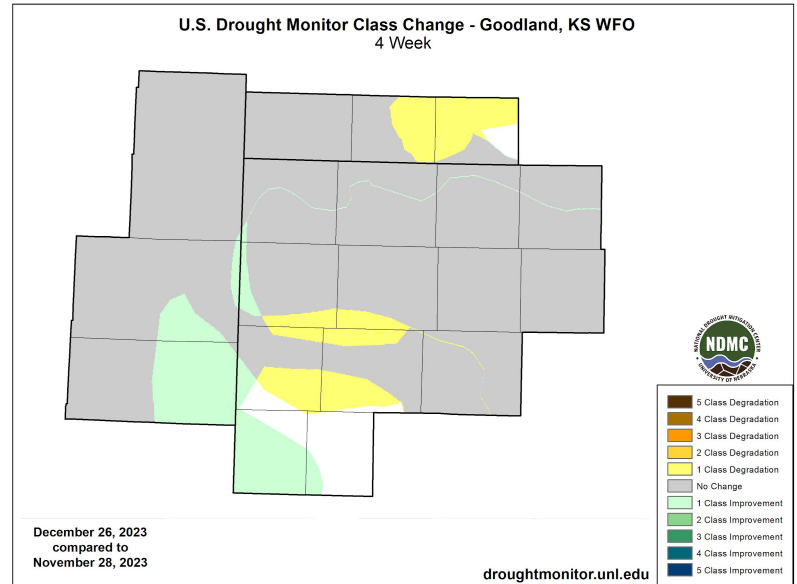


Image Caption: U.S. Drought Monitor 4-week change map valid 6am MDT Jan 01, 2024





# Precipitation

- Late month snowfall for the area helped bring above average precipitation to the area.
  - Portions of the area saw 6-10 inches of snow during the final 1.5 weeks of the month.

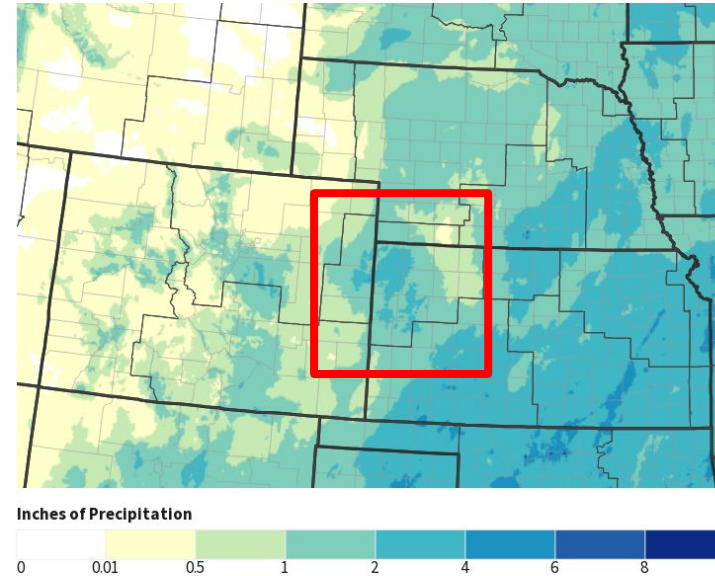
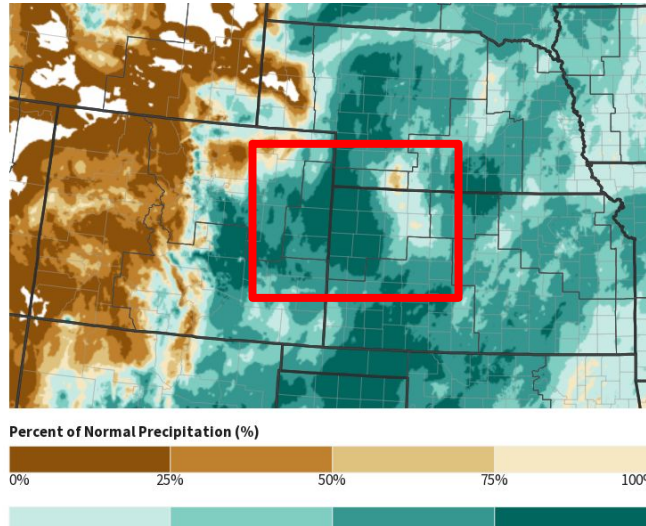


Image Captions:  
Right - Monthly Precipitation Amount for Tri-State Area  
Left - Percent of Normal Monthly Precipitation for Tri-State Area  
Data Courtesy of MRMS. Date Valid:

Jan 01 2024



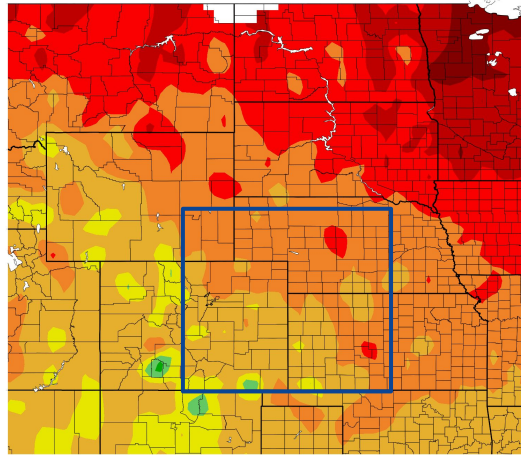




# Temperature

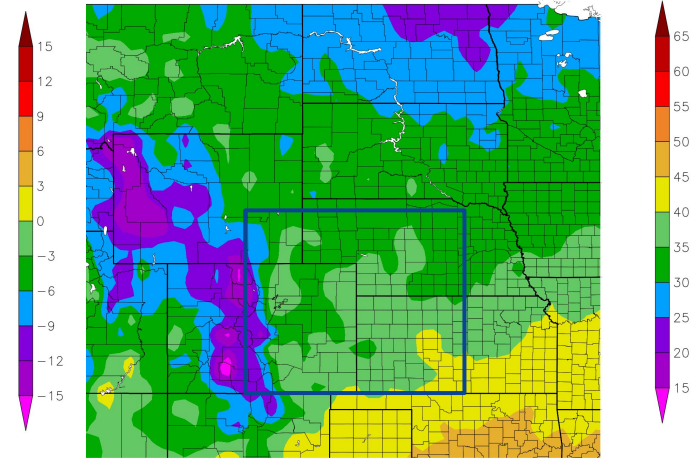
- Well above normal temperatures for the front half of December helped bring the monthly average temperature for the month well above average.
- Numerous record high temperatures were set through the 20th of the month; including some that were over 100 years old.

Departure from Normal Temperature (F)  
12/2/2023 – 12/31/2023



Generated 1/1/2024 at HPRCC using provisional data.

Temperature (F)  
12/2/2023 – 12/31/2023



NOAA Regional Climate Centers <sup>24</sup> at HPRCC using provisional data.

NOAA Regional Climate Centers

Image Captions:  
Right - Average Temperature  
Left - Departure from Normal Temperature  
Data Courtesy High Plains Regional Climate Center. Date Valid:  
Jan 01 2024





# Summary of Impacts

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

## Hydrologic Impacts

- There are no known impacts at this time

## Agricultural Impacts

- USDA Nebraska Crop Progress and Condition Reports can be found [here](#)
- USDA Kansas Crop Progress and Condition Reports can be found [here](#)

## Fire Hazard Impacts

- Fire weather may be an issue on any warmer or windy days

## Other Impacts

- There are no known impacts at this time

## Mitigation Actions

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

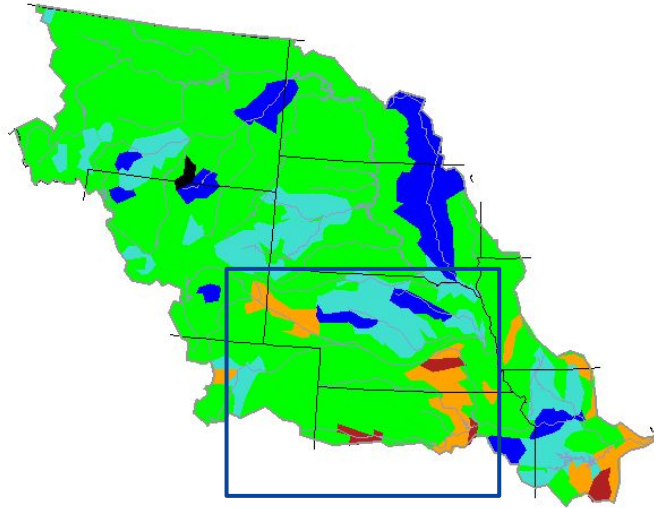




# Hydrologic Conditions and Impacts

- The majority of the area continues to see normal streamflow

Sunday, December 31, 2023



USGS

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		

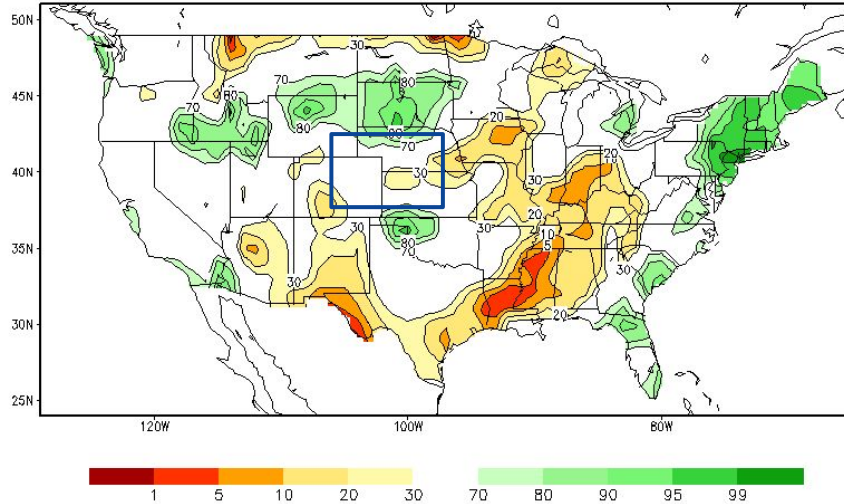
Image Caption: USGS 7 day average streamflow HUC map valid Jan 01 2024





# Agricultural Impacts

Calculated Soil Moisture Ranking Percentile  
DEC 31, 2023



Crop Moisture Index by Division  
Weekly Value for Period Ending DEC 30, 2023  
Short Term Need vs. Available Water in a Shallow Soil Profile

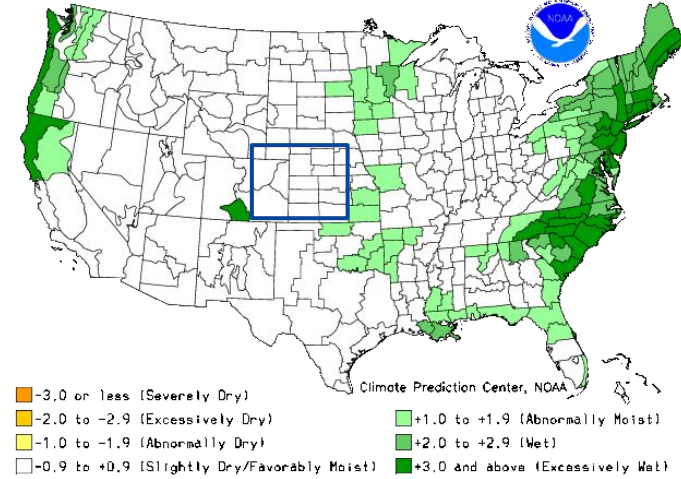


Image Captions:

Left: CPC Calculated [Soil Moisture Ranking Percentile](#) valid Jan 01 2024

Right: [Crop Moisture Index by Division](#). Weekly value for period ending Dec 30, 2023







# Fire Hazard Impacts

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

- Higher risk for fires to develop on warmer/windier days due to winter fuels in place.

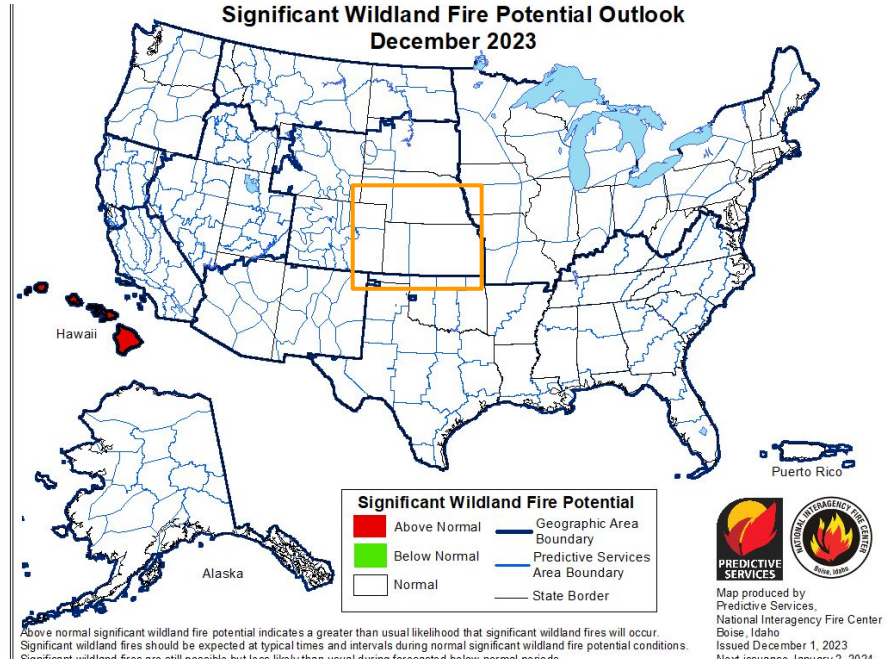


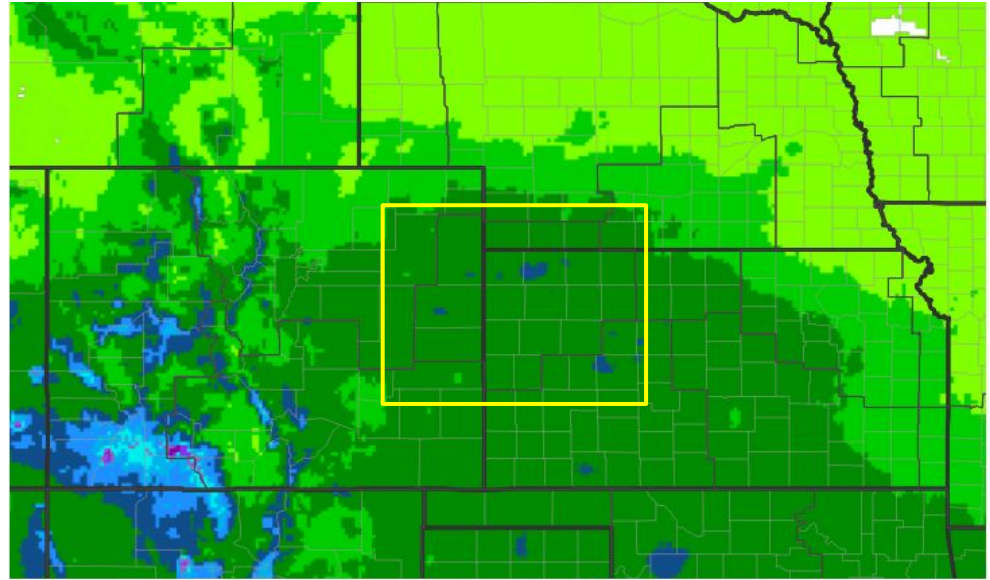
Image Caption: [Significant Wildland Fire Potential Monthly Outlook](#) for January 2024





# Seven Day Precipitation Forecast

- The potential exists for multiple winter systems to move across the area the first 1-2 weeks of January.
- The first system looks to see more of a wetter snow
- The 2nd system looks to see a drier snow with a better connection to colder temperatures



Predicted Inches of Precipitation



Image Caption: Weather Prediction Center [7-day precipitation forecast](#) valid Jan 2 to Jan 9, 2024





# Rapid Onset Drought Outlook

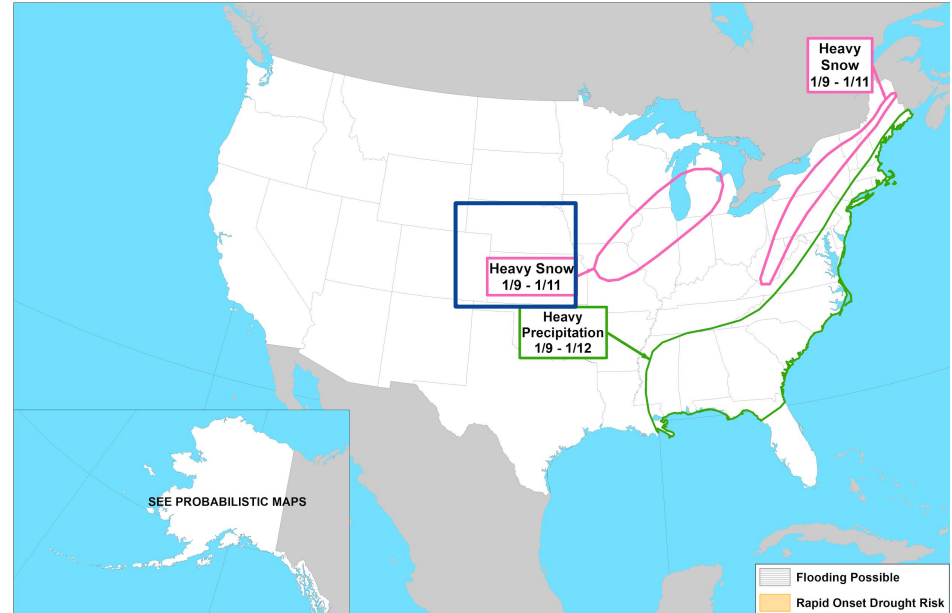
Links to the latest Climate Prediction Center 8 to 14 day [Temperature Outlook](#) and [Precipitation Outlook](#).

- Not Applicable



Day 8-14 U.S. Hazards Outlook

Valid: 01/09/2024-01/15/2024



Climate Prediction Center

Made: 01/01/2024 3PM EST

Follow us:

[www.cpc.ncep.noaa.gov](http://www.cpc.ncep.noaa.gov)

Image Caption:

[Days 8 to 14 U.S. Hazards Outlook](#) Valid Month DD to DD.



National Oceanic and Atmospheric Administration

U.S. Department of Commerce

National Weather Service  
Goodland



# Long-Range Outlooks

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

- Fairly strong signal for cooler than normal temperatures.
- There also is some signal for some arctic air masses to move onto the Plains through the month leading to much below normal temperatures.
- Continued signal for active storm tracks will keep above normal precipitation favored.

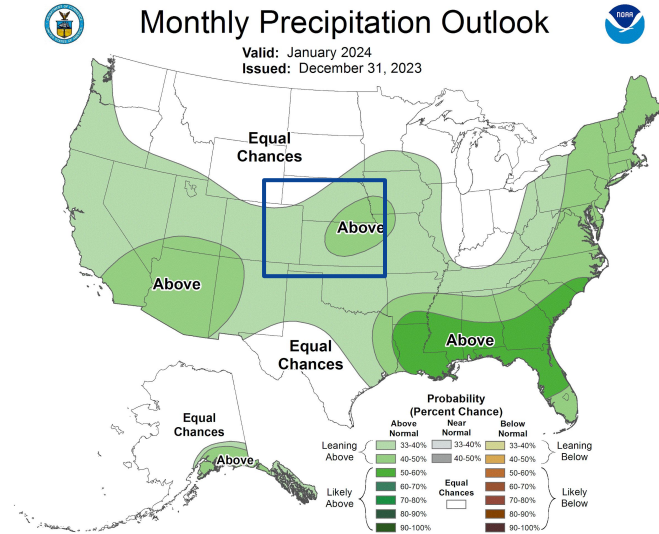
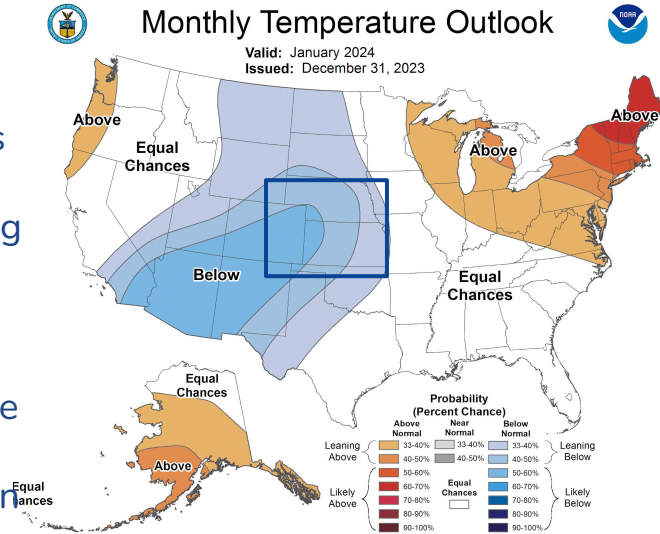


Image Captions:

Left - [Climate Prediction Center Monthly Temperature Outlook](#).

Right - [Climate Prediction Center Monthly Precipitation Outlook](#).

Valid January 2024



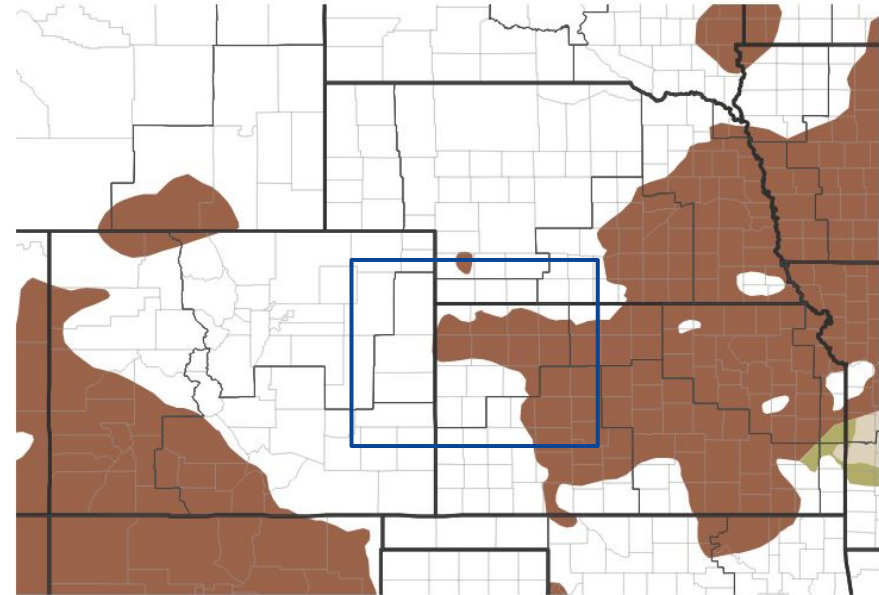




# Drought Outlook

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

- The drought is favored to continue through the month of January for the Plains.



Drought Is Predicted To...



Links to the latest:

[Climate Prediction Center Monthly Drought Outlook](#)

[Climate Prediction Center Seasonal Drought Outlook](#)

Image Caption:

Climate Prediction Center Monthly Drought Outlook Released **Dec 31, 2024**

Valid: **January 2024**

