



# Drought Information Statement for Northeast Kansas

Valid November 6, 2023

Issued By: NWS Topeka

Contact Information: [nws.topeka@noaa.gov](mailto:nws.topeka@noaa.gov)

- This product will be updated December 7, 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/top/DroughtInformationStatement> for previous statements.



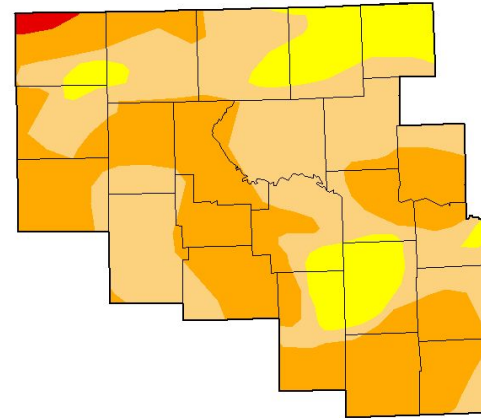


# U.S. Drought Monitor

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

- Drought continues across much of the area due to below normal summer and early autumn rainfall
- Drought intensity and extent:
  - D3 (Extreme Drought): Republic County
  - D2 (Severe Drought): Anderson, Clay, Cloud, Coffey, Dickinson, Douglas, Franklin, Geary, Jackson, Jefferson, Lyon, Marshall, Morris, Osage, Ottawa, Pottawatomie, Riley, Shawnee, Wabaunsee, and Washington Counties
  - D1 (Moderate Drought): Brown and Nemaha Counties

## U.S. Drought Monitor Topeka, KS WFO



**October 31, 2023**  
(Released Thursday, Nov. 2, 2023)  
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
<b>Current</b>	0.00	100.00	86.71	43.23	0.66	0.00
<b>Last Week</b> 10-24-2023	0.00	100.00	91.93	69.67	19.88	0.00
<b>3 Months Ago</b> 08-01-2023	0.00	100.00	72.20	19.77	4.10	0.00
<b>Start of Calendar Year</b> 01-01-2023	0.00	100.00	45.20	3.70	0.02	0.00
<b>Start of Water Year</b> 09-26-2022	4.02	95.98	85.95	51.65	19.88	0.00
<b>One Year Ago</b> 11-01-2022	0.00	100.00	75.39	35.96	1.85	0.00

Intensity:

- None
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

Author:

Brian Fuchs  
National Drought Mitigation Center



[droughtmonitor.unl.edu](http://droughtmonitor.unl.edu)

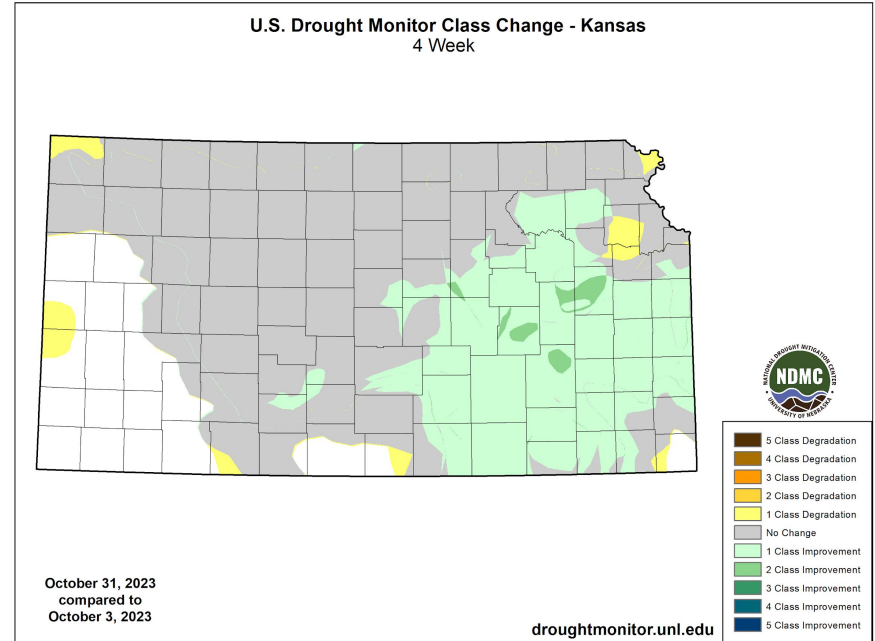




# Recent Change in Drought Intensity

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

- Four-Week Drought Monitor Class Change:
  - Very heavy rainfall in portions of Lyon and Osage counties has lead to notable improvements in drought in this area. Less though moderate rainfall has lead to improved drought conditions for nearby locations
  - Lesser rainfall has worsened the drought in much of Jefferson and Douglas counties.

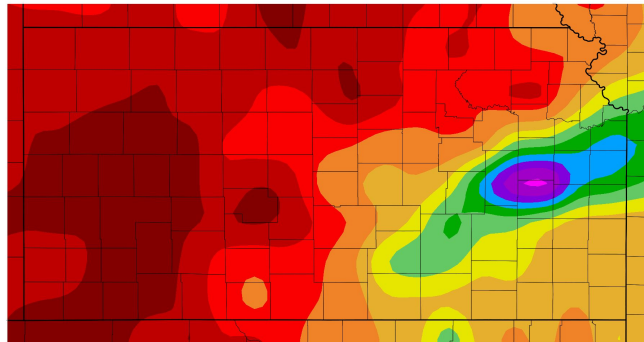




# Precipitation

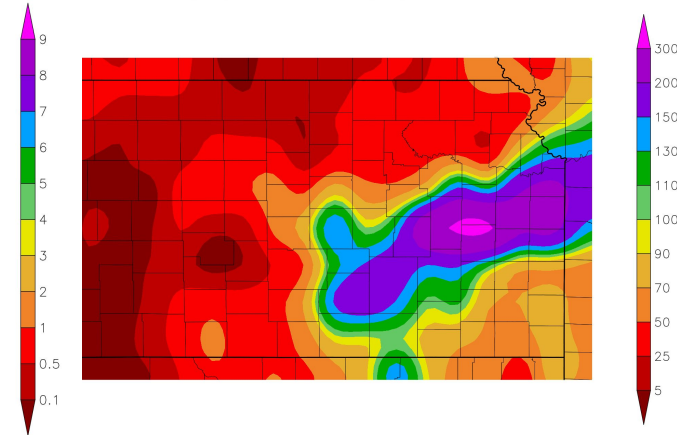
- Reports of around 10 inches of rain were received in Lyon and Osage counties from heavy rainfall in late October.
- Precipitation over the past month drops off significantly north of this area with less than half of normal amounts common.

Precipitation (in)  
10/7/2023 - 11/5/2023



Generated 11/6/2023 at HPRCC using provisional data.

Percent of Normal Precipitation (%)  
10/7/2023 - 11/5/2023



NOAA Regional Climate Centers  
23 at HPRCC using provisional data.

NOAA Regional Climate Center

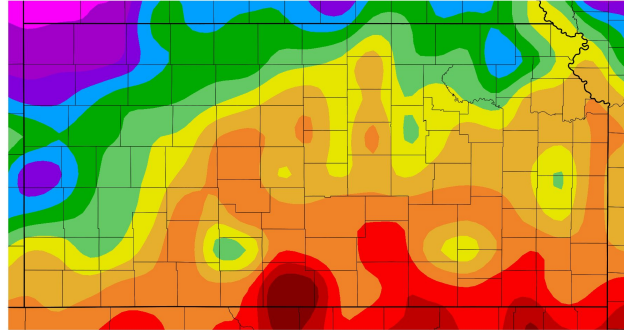




# Temperature

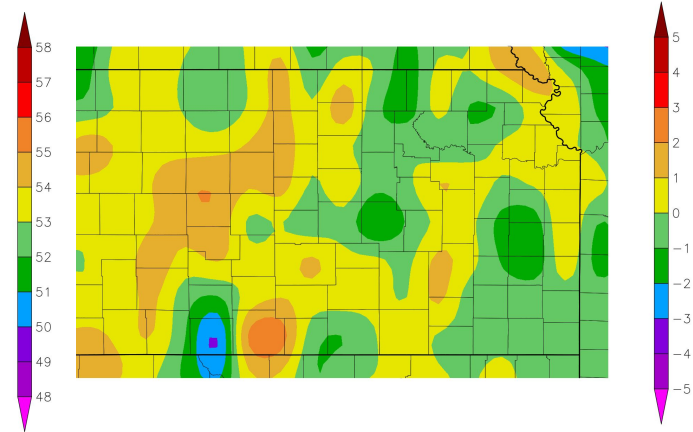
- Temperatures have averaged to be fairly close to normal as a whole in northeast Kansas over the past four weeks, with local areas a few degrees below or above normal.

Temperature (F)  
10/7/2023 – 11/5/2023



Generated 11/6/2023 at HPRCC using provisional data.

Departure from Normal Temperature (F)  
10/7/2023 – 11/5/2023



NOAA Regional Climate Centers <sup>023</sup> 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

- River gauges across the area indicated flows from near normal to near record lowest levels. The elevation of area reservoirs range from three feet above to seven feet below conservation pool levels.

## Soil Moisture Impacts

- The Climate Prediction Center reports soil moisture deficits roughly in the three- to four-inch range. The Kansas Agricultural Statistics Service reports topsoil moisture as 27 percent very short and 36 percent short across the state.

## Agricultural Impacts

- The Kansas Agricultural Statistics Service reports, for the entire state, the wheat condition as 18 percent very poor and 18 percent poor. Pasture and range conditions were rated as 25 percent very poor and 30 percent poor.

## Mitigation Actions

- None known





# Hydrologic Conditions and Impacts

- River gages across the area indicated flows from near normal to near record lowest levels.
- The elevation of area reservoirs range from within three feet above to seven feet below conservation pool levels.

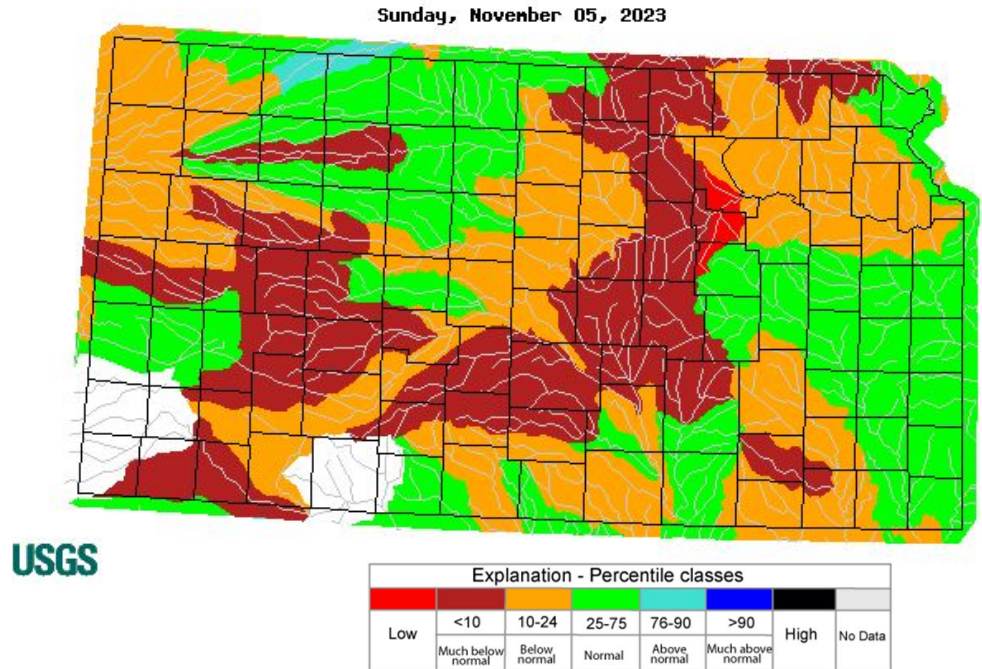


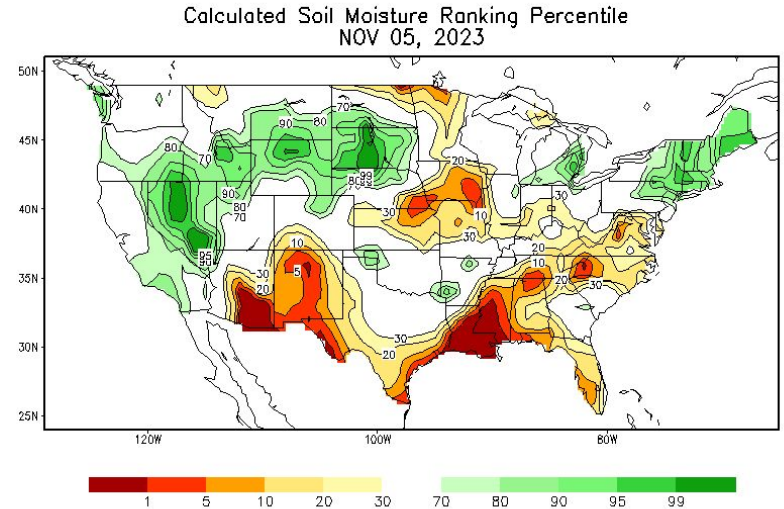
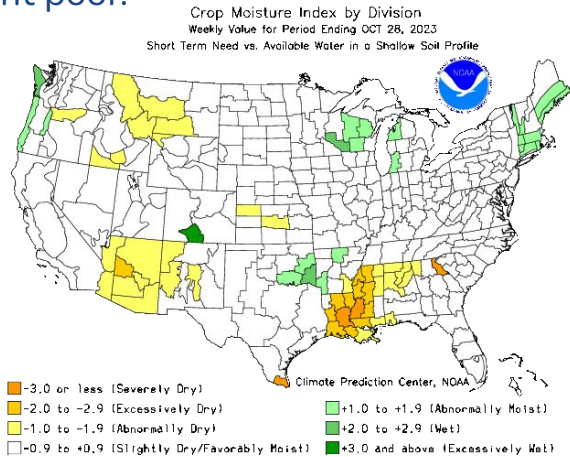
Image Caption: USGS 7-day average streamflow HUC map





# Agricultural Impacts

- The Climate Prediction Center reports soil moisture deficits from around two inches to around four inches. The Kansas Agricultural Statistics Service reports topsoil moisture as 27 percent very short and 36 percent short across the state.
- The Kansas Agricultural Statistics Service reports, for the entire state, the wheat condition as 18 percent very poor and 18 percent poor. Pasture and range conditions were rated as 25 percent very poor and 30 percent poor.



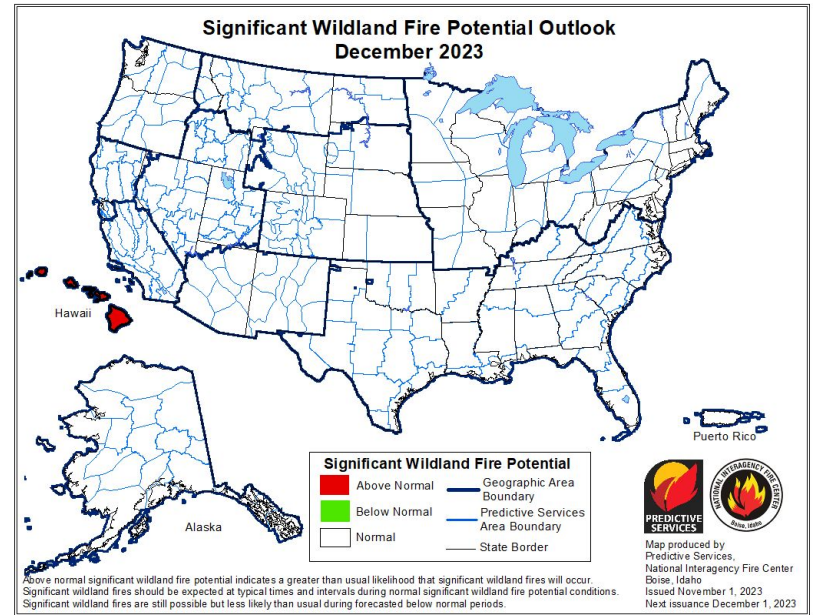
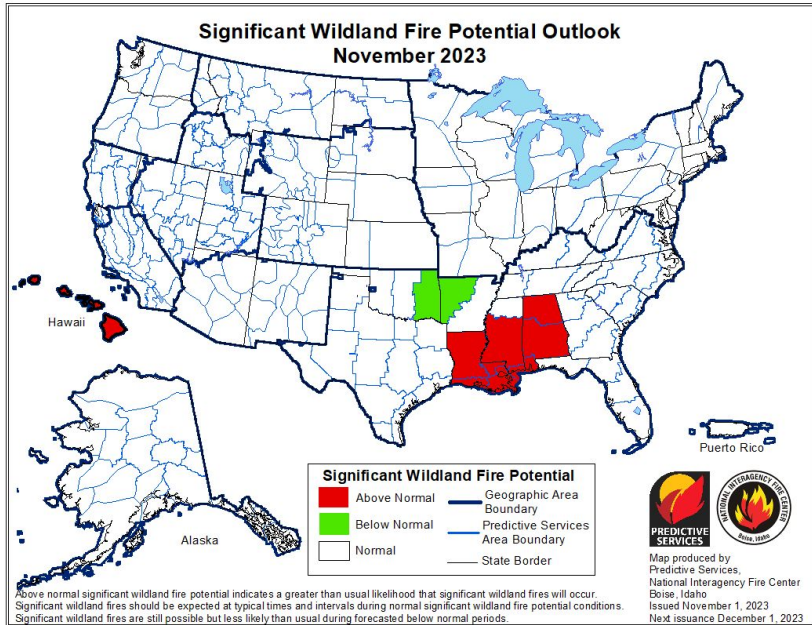




# Fire Hazard Impacts

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

- No significant impacts to wildfire potential yet, but percent green has been reduced to an estimated 40% across the region.





# Seven Day Precipitation Forecast

- No precipitation is expected through November 12.
- Normal precipitation for this time of year (over a one week period) is roughly one-quarter to one-half inch.

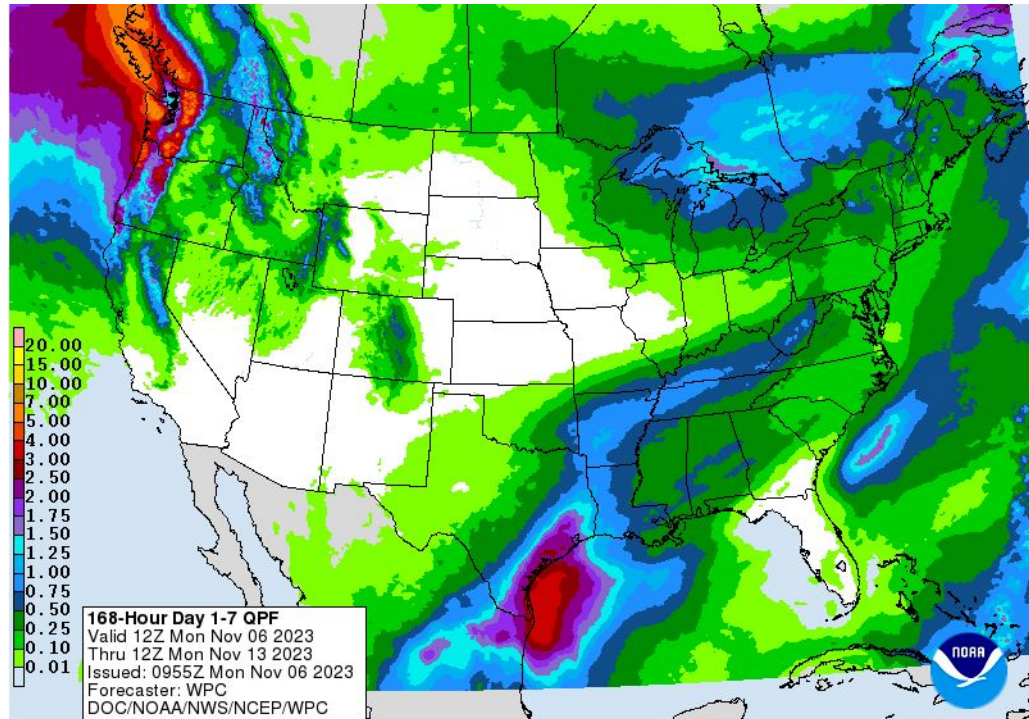


Image Caption: Weather Prediction Center [7-day precipitation forecast](#)



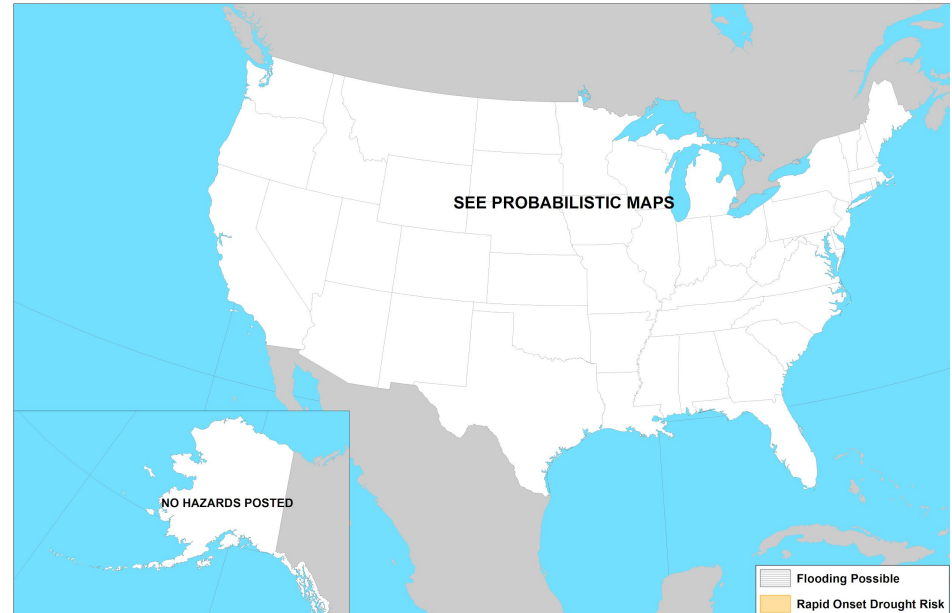
# Rapid Onset Drought Outlook

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

- No significant hazards are anticipated during the mid-October period



Day 8-14 U.S. Hazards Outlook  
Valid: 11/11/2023-11/17/2023



Climate Prediction Center  
Made: 11/03/2023 3PM EDT

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

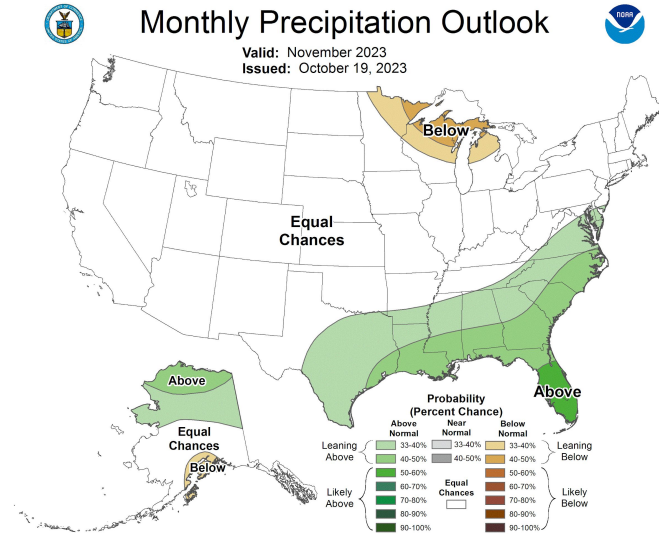
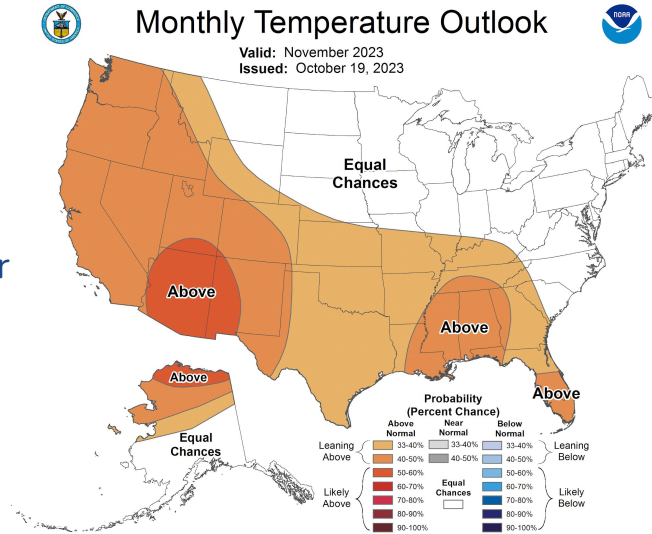




# Long-Range Outlooks

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

- There is a greater than equal chance for above normal temperatures for November.
- There are equal chances for above, below, and near normal precipitation for November.



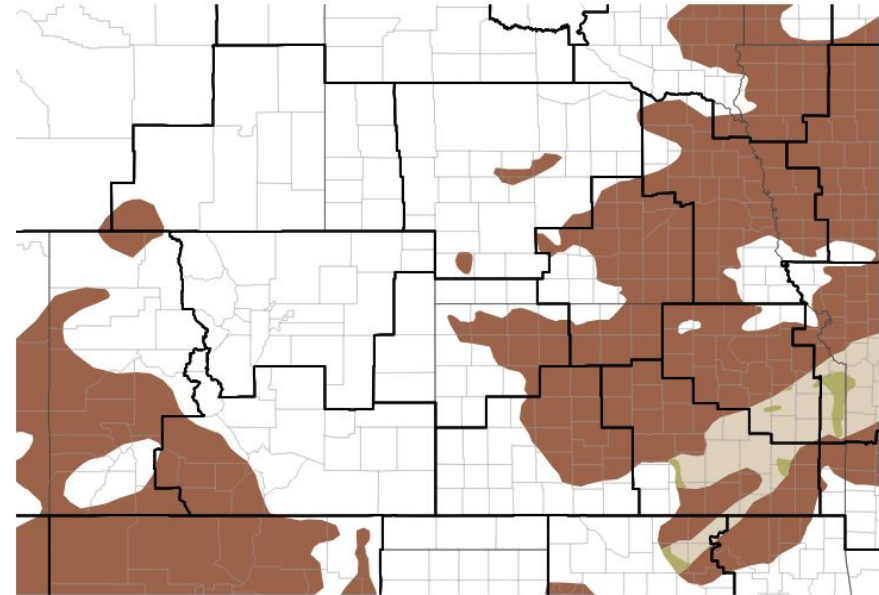


# Drought Outlook

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

- Drought conditions are expected to continue or perhaps improve in November.

## 1-Month Drought Outlook



Drought Is Predicted To...



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

Data Valid: 10/31/23

