



Drought Information Statement for Northeast Kansas

Valid September 7, 2023

Issued By: NWS Topeka

Contact Information: nws.topeka@noaa.gov

- This product will be updated October 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.



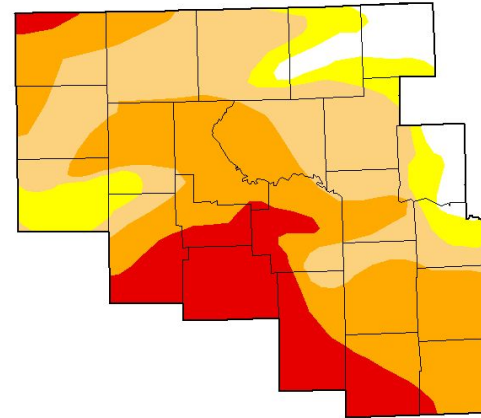


U.S. Drought Monitor

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

- Drought continues across much of central and northeast Kansas due to below normal summer rainfall
- Drought intensity and Extent
 - D3 (Extreme Drought): Anderson, Coffey, Dickinson, Geary, Lyon, Morris, Republic, Riley, and Wabaunsee Counties
 - D2 (Severe Drought): Clay, Cloud, Douglas, Franklin, Jefferson, Marshall, Osage, Ottawa, Pottawatomie, Shawnee, and Washington Counties
 - D1 (Moderate Drought): Jackson and Nemaha Counties
 - D0 (Abnormally Dry): Brown County

U.S. Drought Monitor Topeka, KS WFO



September 5, 2023
(Released Thursday, Sep. 7, 2023)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	5.93	94.07	83.63	53.26	17.17	0.00
Last Week 08-29-2023	9.95	90.05	74.30	32.95	8.78	0.00
3 Months Ago 06-06-2023	39.73	60.27	27.05	6.66	0.74	0.00
Start of Calendar Year 01-01-2023	0.00	100.00	45.20	3.70	0.02	0.00
Start of Water Year 09-27-2022	0.17	99.83	36.20	1.94	0.00	0.00
One Year Ago 09-06-2022	12.65	87.35	5.49	0.22	0.00	0.00

Intensity:



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:

Richard Tinker
CPC/NOAA/NWS/NCEP



droughtmonitor.unl.edu

Image Caption: U.S. Drought Monitor valid 8am EDT September 5.





Recent Change in Drought Intensity

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

- Four Week Drought Monitor Class Change:
 - Drought Worsened: Central KS
 - No Change: Portions of north central KS
 - Drought Improved: Far northeast KS

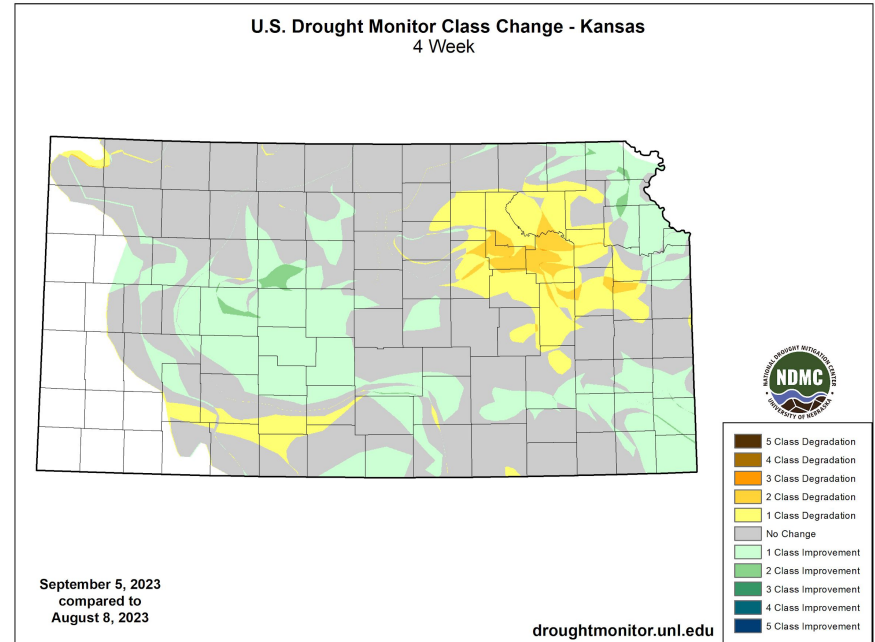


Image Caption: U.S. Drought Monitor 4-week change map valid 8am EDT September 5.

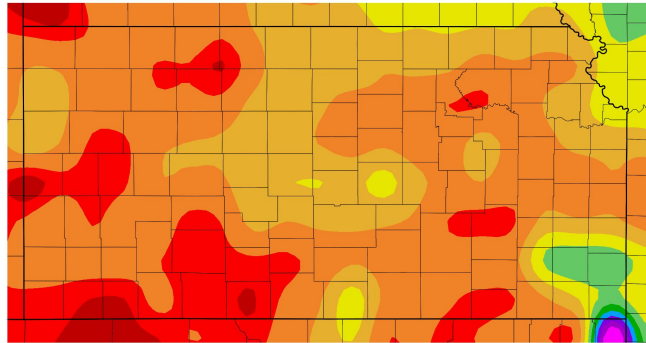




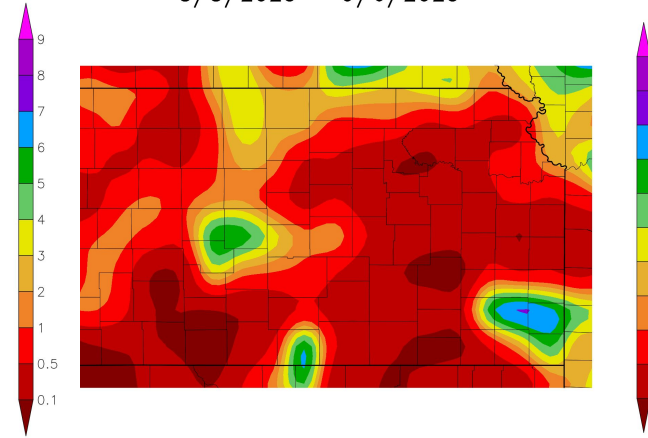
Precipitation

- A very dry and hot August led to continued or worsening drought conditions in all but far northeast KS
- Little to no precipitation has been received across the area since the 13th of August

Precipitation (in)
8/8/2023 - 9/6/2023



Percent of Normal Precipitation (%)
8/8/2023 - 9/6/2023



Generated 9/7/2023 at HPRCC using provisional data.

NOAA Regional Climate Centers ³ at HPRCC using provisional data.

NOAA Regional Climate Center

Image Captions:

Left - Precipitation Amount for Kansas

Right - Percent of Normal Precipitation for Kansas

Data Courtesy High Plains Regional Climate Center
Data over the past 30 days ending September 6, 2023

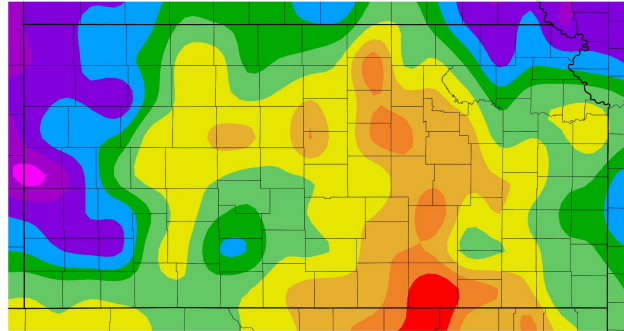




Temperature

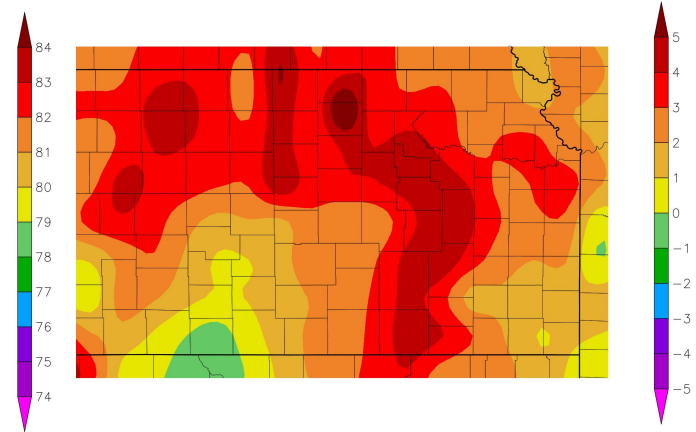
- A very dry and hot August led to continued or worsening drought conditions in all but far northeast KS
- Temperatures reached the 100 degree mark seven days in a row from August 19-25

Temperature (F)
8/8/2023 - 9/6/2023



Generated 9/7/2023 at HPRCC using provisional data.

Departure from Normal Temperature (F)
8/8/2023 - 9/6/2023



NOAA Regional Climate Centers ²³ at HPRCC using provisional data.

NOAA Regional Climate Centers

Image Captions:

Left - Average Temperature for Kansas
Right - Departure from Normal Temperature for Kansas
Data Courtesy High Plains Regional Climate Center
Data over the past 30 days ending September 6, 2023





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 one foot above to three feet below conservation pool levels.

Soil Moisture Impacts

- The Climate Prediction Center reports soil moisture deficits from around one inch to around four inches. The KS Agricultural Statistics Service reports topsoil moisture as 33 percent very short and 42 percent short across the state.

Agricultural Impacts

- The Kansas Agricultural Statistics Service reports, for the entire state, the corn condition as 14 percent very poor and 19 percent poor, the soybean condition as 16 percent very poor and 24 percent poor, and the sorghum condition as 11 percent very poor and 18 percent poor. Pasture and range conditions were rated as 20 percent very poor and 27 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 one foot above to three feet below conservation pool levels.

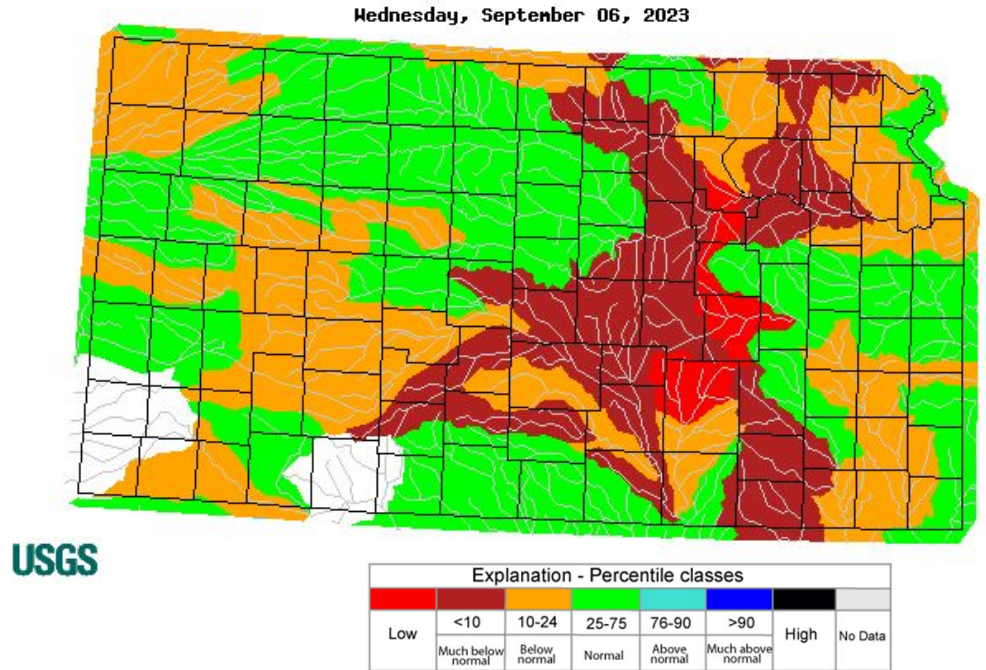


Image Caption: USGS 7 day average streamflow HUC map valid September 6, 2023





Agricultural Impacts

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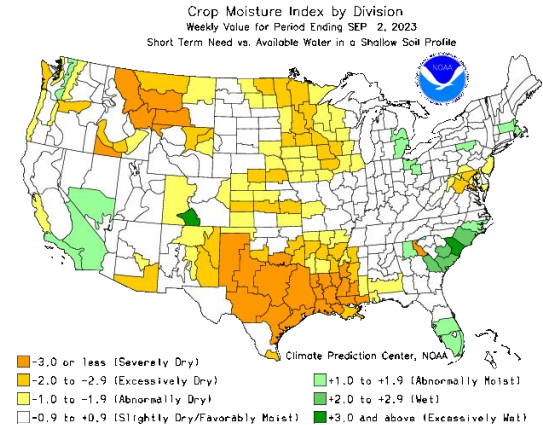
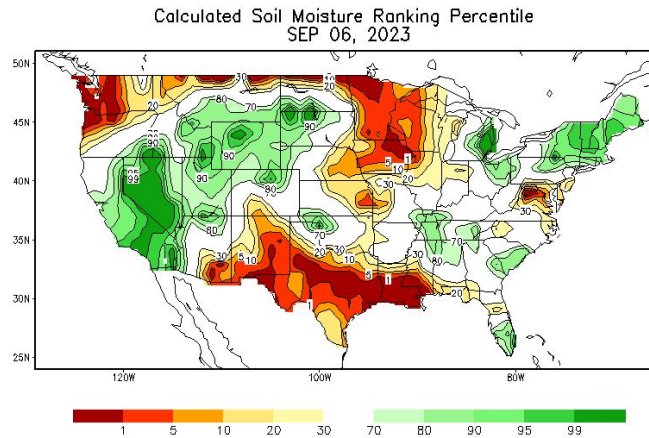


Image Captions:
 Left: CPC Calculated [Soil Moisture Ranking Percentile](#) valid September 6, 2023
 Top: [Crop Moisture Index by Division](#). Weekly value for period ending September 2, 2023





Fire Hazard Impacts

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

- No significant impacts to wilfire potential yet, but percent green has been reduced to 50% across the region.

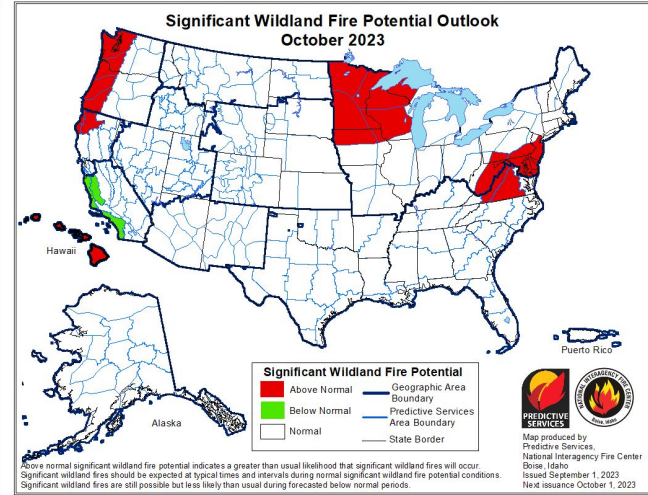
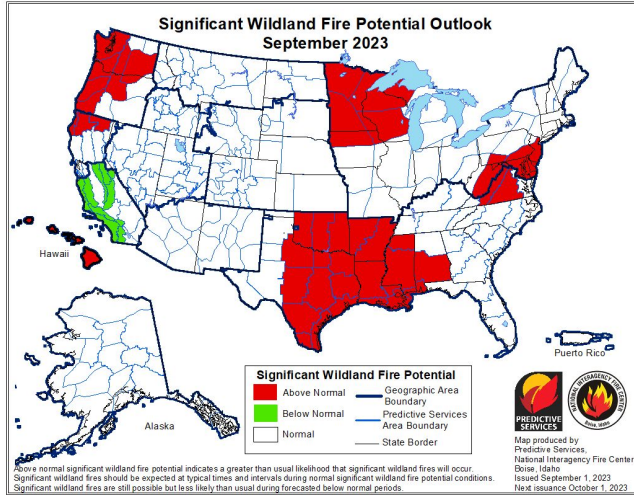


Image Captions:

[Significant Wildland Fire Potential Monthly Outlook](#) for September and October 2023





Seven Day Precipitation Forecast

- Precipitation through September 14 is expected to range from 0.25 to 0.75 inches across northeast Kansas.
- Normal precipitation for this time of year (over a one week period) is around three quarters of an inch, so this predicted rainfall would be near to below normal.

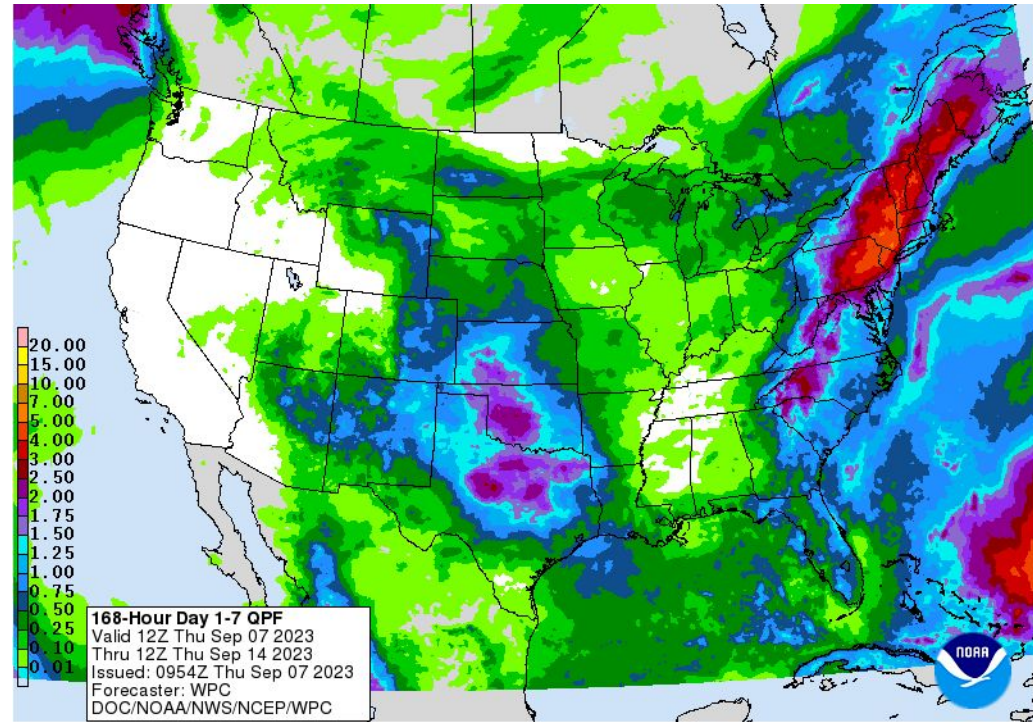


Image Caption: Weather Prediction Center [7-day precipitation forecast](#) valid Wednesday September 7 to Wednesday September 14





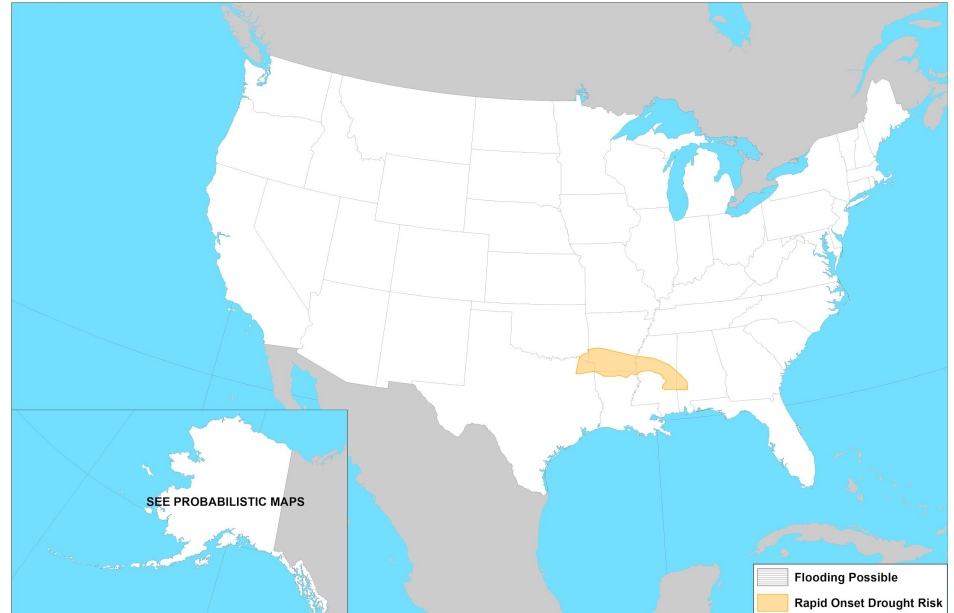
Rapid Onset Drought Outlook

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

- No significant hazards anticipated during the mid-September period



Day 8-14 U.S. Hazards Outlook
Valid: 09/14/2023-09/20/2023



Climate Prediction Center
Made: 09/06/2023 3PM EDT

Follow us:
www.cpc.ncep.noaa.gov

Image Caption:

[Days 8 to 14 U.S. Hazards Outlook](#) Valid September 14 through 20.





Long-Range Outlooks

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

- Above normal temperatures and below normal precipitation are expected to continue (on average) through the month of September.

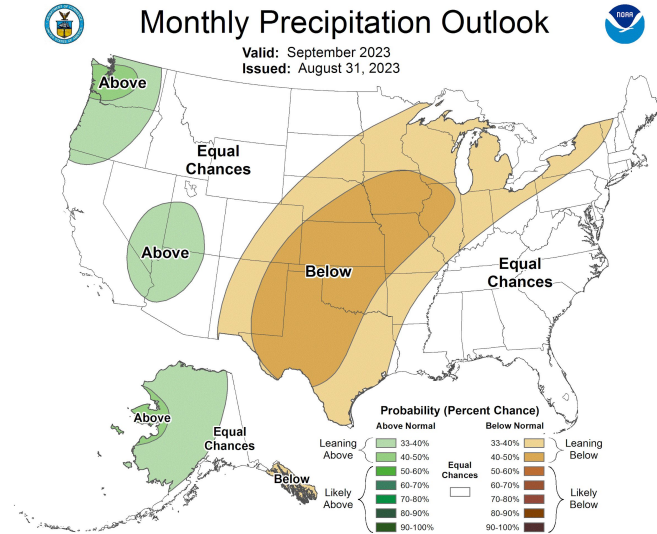
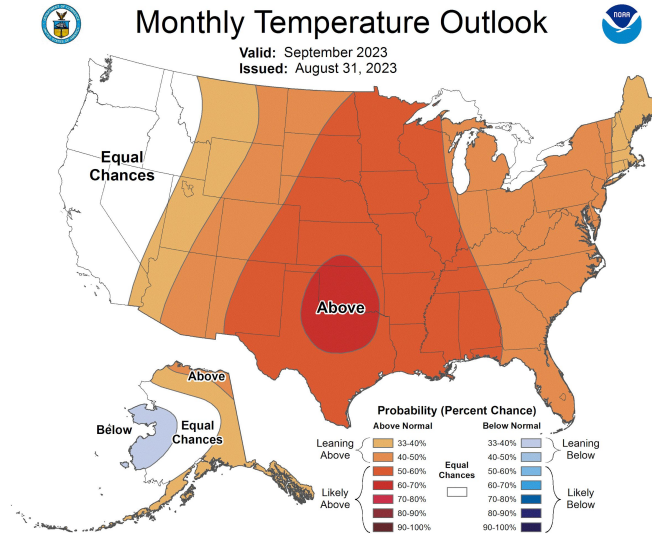


Image Captions:

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

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

Issued August 31, 2023, valid for the month of September 2023.





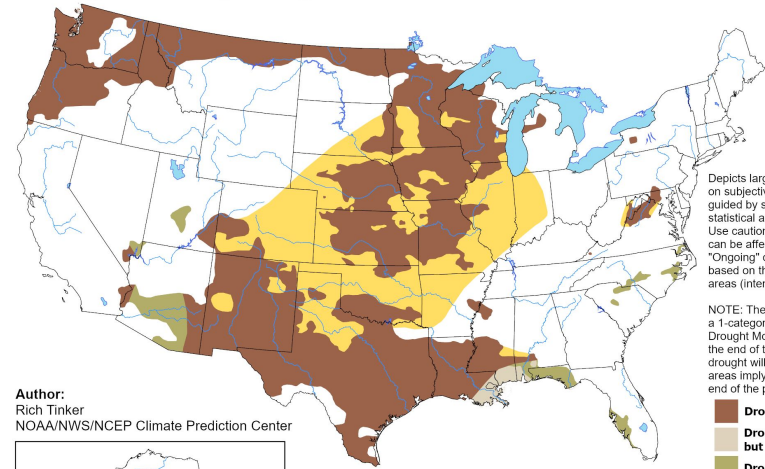
Drought Outlook

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

- Persistence of D1-D3 conditions is expected through the month of September, and drought may develop in D0 and non-drought areas.

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

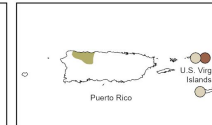
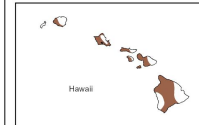
Valid for September 2023
Released August 31, 2023



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).

Author:
Rich Tinker
NOAA/NWS/NCEP Climate Prediction Center



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



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

Image Caption:

Climate Prediction Center Monthly Drought Outlook Released August 31, 2023; valid for September 2023.

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
Topeka, KS