



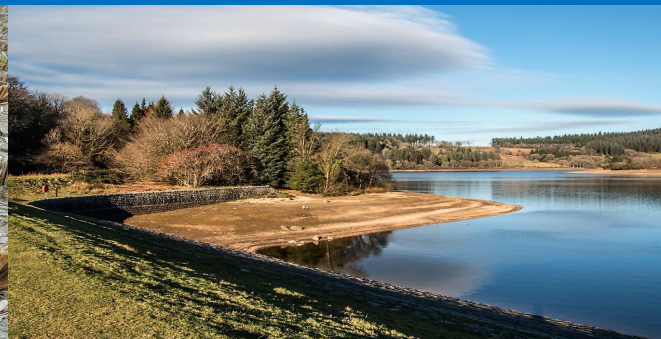
Drought Information Statement for the Tri-State Area

Valid October 04, 2023

Issued By: WFO Goodland Kansas

Contact Information: 785-899-2360, nws.goodland@noaa.gov

- 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.



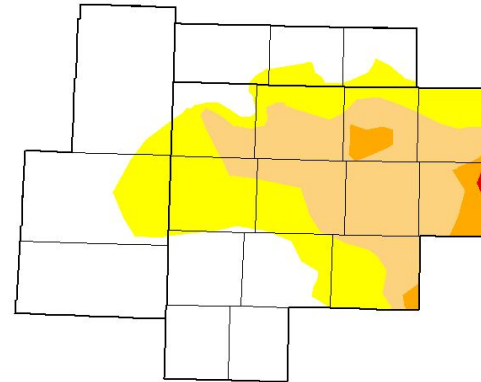


Goodland Warning Area Drought Monitor

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

- Drought intensity and Extent
 - D3 (Extreme Drought): Graham County
 - D2 (Severe Drought): Decatur, Gove
 - D1 (Moderate Drought): Cheyenne (KS), Rawlins, Norton, Sheridan, Thomas, Sherman
 - D0: (Abnormally Dry): Red Willow, Hitchcock, Dundy, Yuma, Kit Carson, Logan

U.S. Drought Monitor Goodland, KS WFO



September 26, 2023

(Released Thursday, Sep. 28, 2023)

Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	52.72	47.28	24.69	3.27	0.40	0.00
Last Week 09-19-2023	59.02	40.98	28.10	3.27	0.40	0.00
3 Months Ago 06-27-2023	35.68	64.32	45.55	22.95	6.90	0.90
Start of Calendar Year 01-01-2023	0.00	100.00	100.00	77.86	57.73	24.05
Start of Water Year 09-27-2022	0.00	100.00	89.91	71.99	50.05	10.13
One Year Ago 09-27-2022	0.00	100.00	89.91	71.99	50.05	10.13

Intensity

None	D2 Severe Drought
D0 Abnormally Dry	D3 Extreme Drought
D1 Moderate 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

Richard Heim
NCEI/NOAA



droughtmonitor.unl.edu

Image Caption: U.S. Drought Monitor for High Plains. Valid 6am MDT April 6th



National Oceanic and
Atmospheric Administration

U.S. Department of Commerce

National Weather Service
Goodland



Recent Change in Drought Intensity

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

- Four Week Drought Monitor Class Change.
 - Drought Worsened: southern portions of Cheyenne (KS), Sherman, Thomas and eastern Kit Carson counties
 - No Change: majority of the eastern part of the forecast area.
 - Drought Improved: Red Willow, Hitchcock, Norton, Decatur, Wichita counties

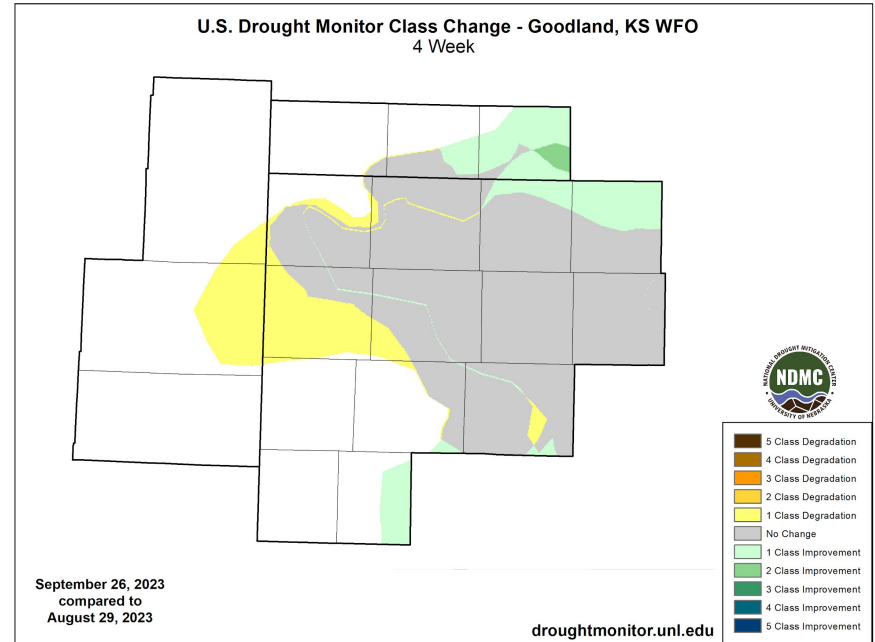


Image Caption: U.S. Drought Monitor 4-week change map valid. **6m** MDT **September 28th.**

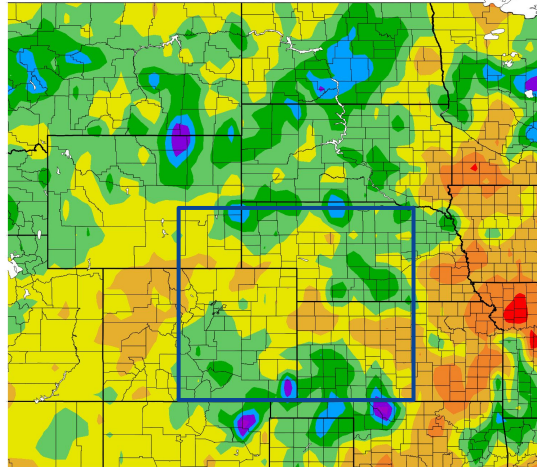




Precipitation- Past 30 Days

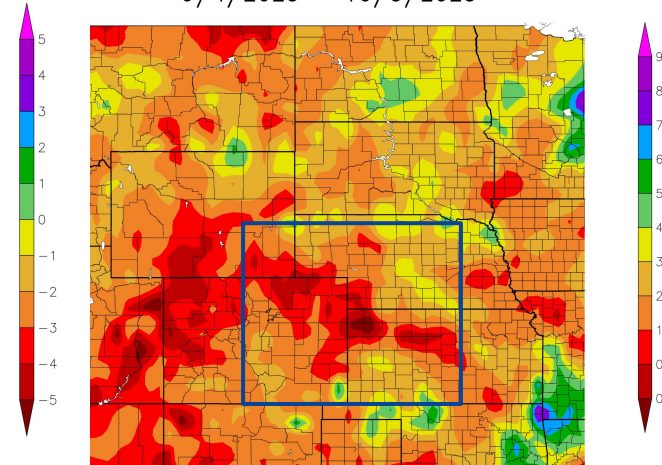
- An overall dry September occurred for the majority of the High Plains.
- Portions of the southern area however did see above normal precipitation.

Departure from Normal Precipitation (in)
9/4/2023 - 10/3/2023



Generated 10/4/2023 at HPRCC using provisional data.

Precipitation (in)
9/4/2023 - 10/3/2023



NOAA Regional Climate Centers 23 at HPRCC using provisional data.

NOAA Regional Climate

Image Captions:
 Right - Precipitation Amount for Tri-State Area
 Left - Percent of Normal Precipitation for Tri-State Area
 Data Courtesy High Plains Regional Climate Center.
 Data over the past 30 days ending October, 03, 2023

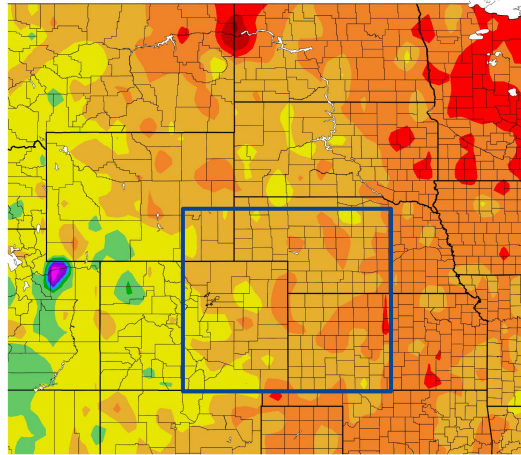




Temperature- Past 30 Days

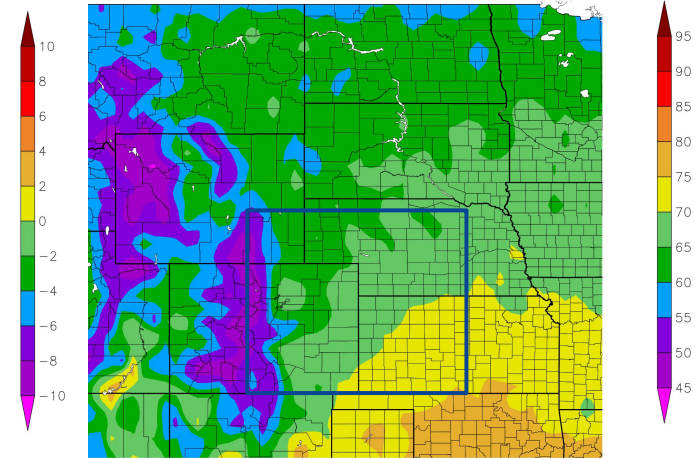
- Above normal temperatures were observed across the entire area.
- This along with the above normal temperatures lead to some of the recent degradations of the drought across the western portions of the area.

Departure from Normal Temperature (F)
9/4/2023 – 10/3/2023



Generated 10/4/2023 at HPRCC using provisional data.

Temperature (F)
9/4/2023 – 10/3/2023



NOAA Regional Climate Centers 023 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.
 Data over the past 30 days ending October, 03, 2023





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

- The Kansas Agricultural Statistics Service reports, for the entire state, the topsoil conditions were rated 33% Very Short, 39% Short, 28% Adequate and 0% Surplus. Subsoil moisture supplies rated 37% very short, 39% short, 24% Adequate and 0% Surplus.

Fire Hazard Impacts

- Fire conditions may increase as we approach our first freeze as fuels succumb to the cold weather as the fall is usually our windiest season.

Mitigation Actions

- Be aware if using sparks on the windiest days and be aware of burn bans.

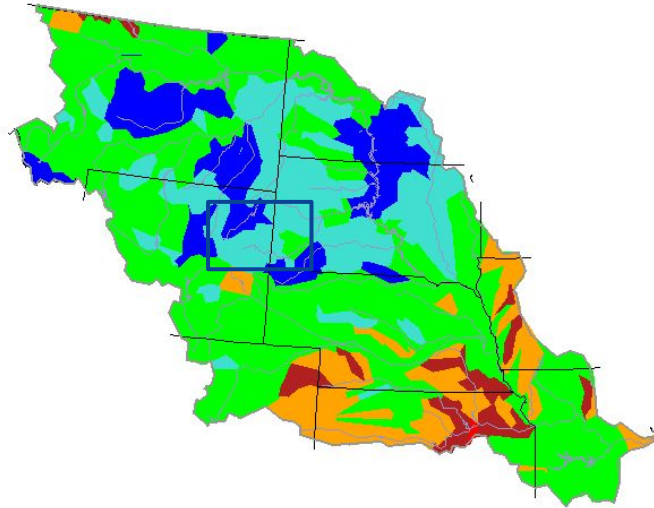




Hydrologic Conditions and Impacts

- River gauges across the area indicated flows from near normal to below normal level.
 - The highest were over the eastern portion of the area.

Tuesday, October 03, 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 10 03 2023

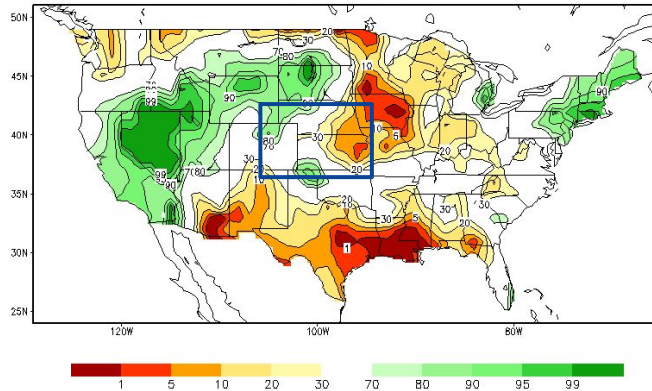




Agricultural Impacts

- Soil moisture index and soil moisture index are near normal to below normal across the area which is representative of the above normal temperatures and lack of rainfall that was observed across the area.

Calculated Soil Moisture Ranking Percentile
OCT 03, 2023



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

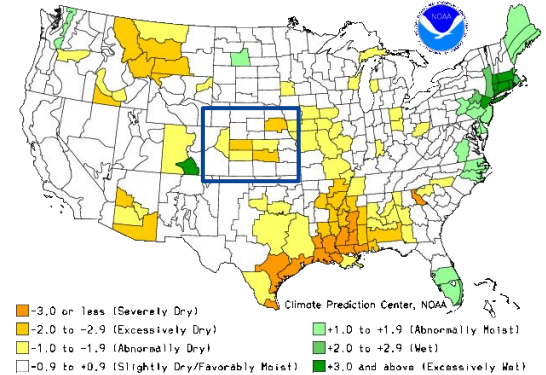


Image Captions:

Left: CPC Calculated [Soil Moisture Ranking Percentile](#) valid October 03, 2023

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





Fire Hazard Impacts

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

- The area is not currently outlook by the Fire Potential Outlook but will be watching for the areas first freezing and fuels to start becoming more favorable.

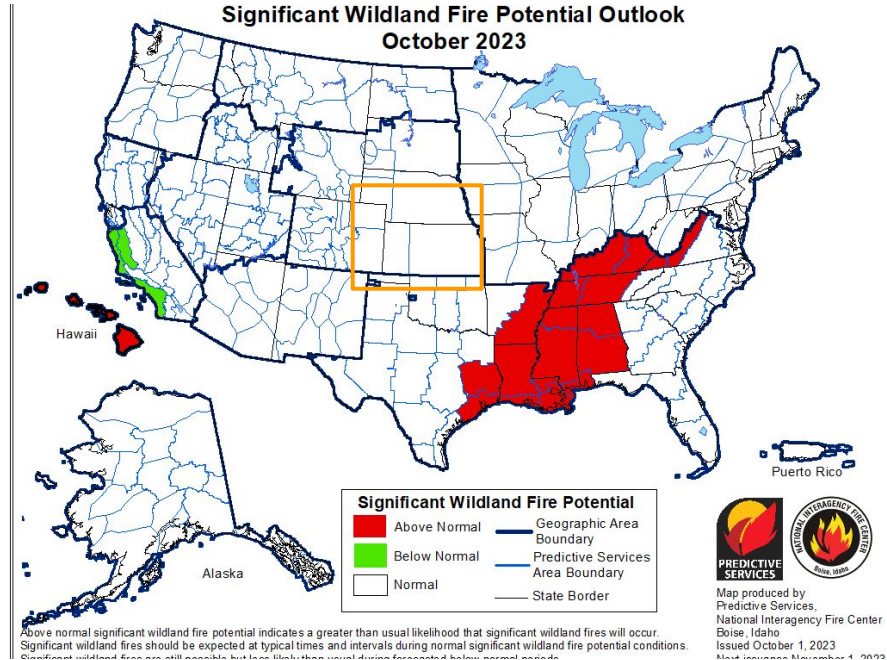


Image Caption: [Significant Wildland Fire Potential Monthly Outlook](#) for **October, 2023**





Seven Day Precipitation Forecast

- Little to no precipitation is currently expected at this time across the Tri-State area through at least the middle of October.

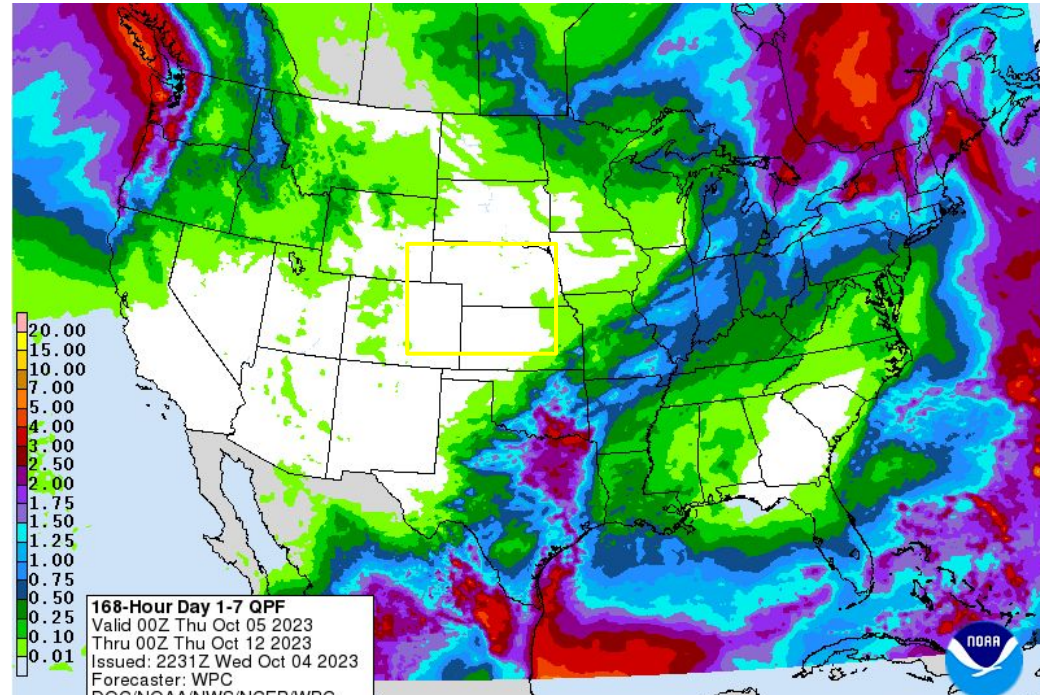


Image Caption: Weather Prediction Center [7-day precipitation forecast](#) valid Wednesday October 4 to Wednesday October 11





Long-Range Outlooks

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

- For the month of October as a whole there is fairly strong signal is seeing Above Normal Temperatures and Above Normal Precipitation across the area.
- The relative drier start to the month may mean some potential pattern changes later on.

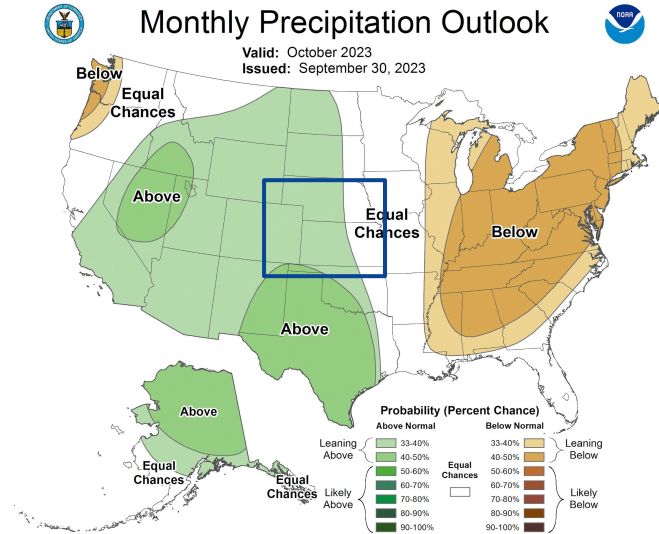
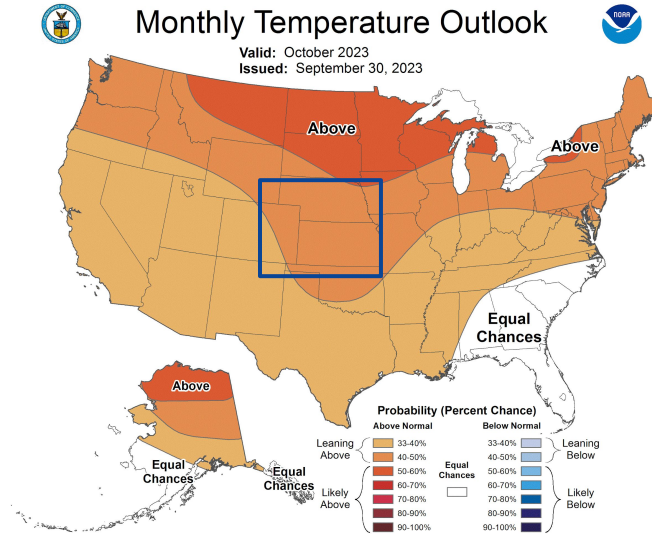


Image Captions:

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

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

Valid 10 2023





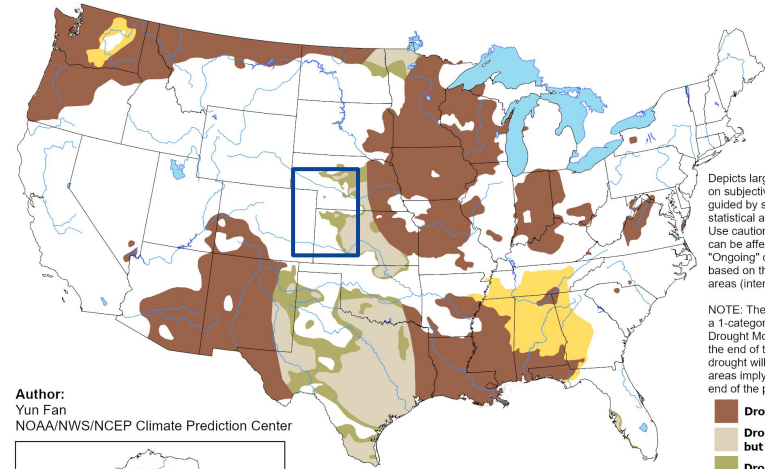
Drought Outlook

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

- The overall drought is currently forecasted to end or remain the same for where it does currently remain.

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

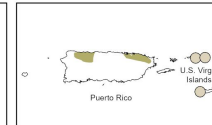
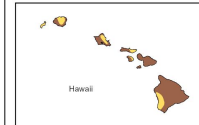
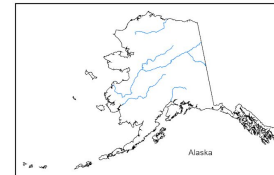
Valid for October 2023
Released September 30, 2023



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:
Yun Fan
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 09 30, 2023 valid for 10 2023

Links to the latest:

[Climate Prediction Center Monthly Drought Outlook](#)

[Climate Prediction Center Seasonal Drought Outlook](#)



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