



Drought Information Statement for Eastern IA, Northwest IL & Northeast MO

Valid October 6, 2023

Issued By: WFO Quad Cities IA/IL

Contact Information: nws.quadcities@noaa.gov

- This product will be updated October 20, 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/DVN/DroughtInformationStatement> for previous statements.



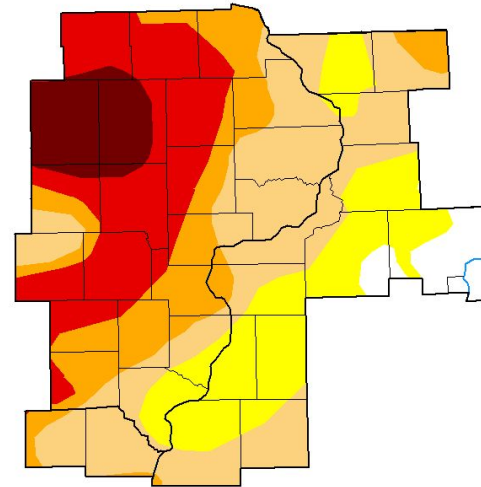


U.S. Drought Monitor

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

- Exceptional Drought Conditions expands in portions of the DVN CWA
- Drought intensity and Extent
 - A further degradation has occurred over the past week.
 - D4 (Exceptional Drought): Now covers **7.27%** of eastern IA. This is the first time the D4 category has occurred in the DVN CWA.
 - D3 (Extreme Drought): Now covers **27.28%** of eastern Iowa.
 - D2 (Severe Drought): Now covers **44%** of eastern Iowa, and a very small portion of northeast Missouri and northwest Illinois.
 - D1 (Moderate Drought): Now covers over **76%** of the DVN CWA.

U.S. Drought Monitor Quad Cities, IA/IL WFO



October 3, 2023
(Released Thursday, Oct. 5, 2023)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	4.40	95.60	76.30	44.11	27.28	7.27
Last Week 09-26-2023	3.08	96.92	77.41	43.94	20.87	1.99
3 Months Ago 07-04-2023	0.00	100.00	99.60	72.50	2.84	0.00
Start of Calendar Year 01-01-2023	44.92	55.08	22.85	7.78	0.00	0.00
Start of Water Year 09-26-2022	3.08	96.92	77.41	43.94	20.87	1.99
One Year Ago 10-04-2022	39.90	60.10	31.54	8.82	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:
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CPC/NOAA



droughtmonitor.unl.edu

Image Caption: U.S. Drought Monitor valid 8am EDT October 3rd 2023





Recent Change in Drought Intensity

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

- Four Week Drought Monitor Class Change.
 - **Drought Worsened:** Through parts of western, and parts of eastern Iowa, southwestern Minnesota, central and southern Illinois.
 - **No Change:** Areas scattered throughout the region have seen little to no change, but this is not focused on any specific areas.
 - **Drought Improved:** Through much of Minnesota and Wisconsin, northern Illinois, along with southwest Missouri.

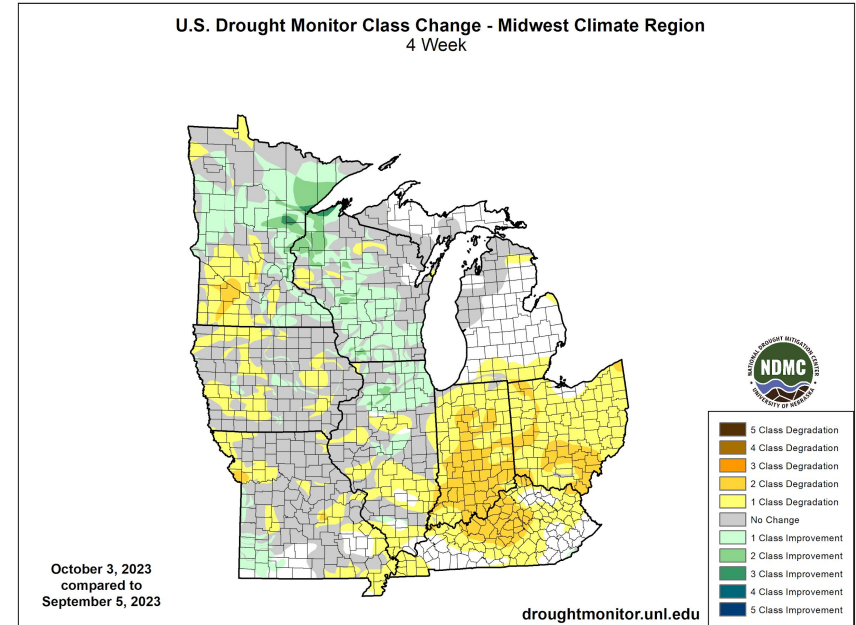


Image Caption: U.S. Drought Monitor 4-week change map valid 8am EDT September 19th.

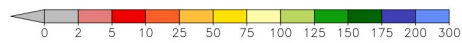
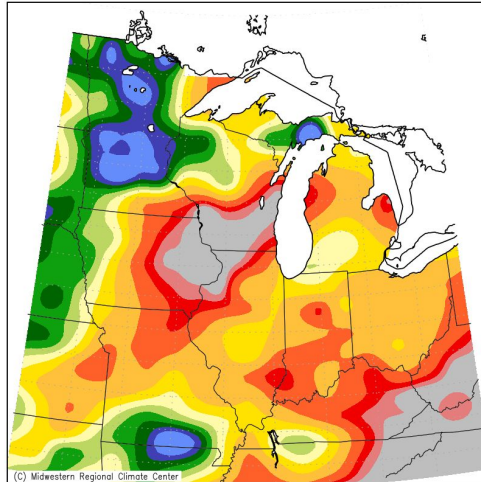




Precipitation

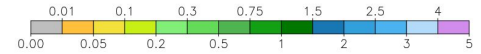
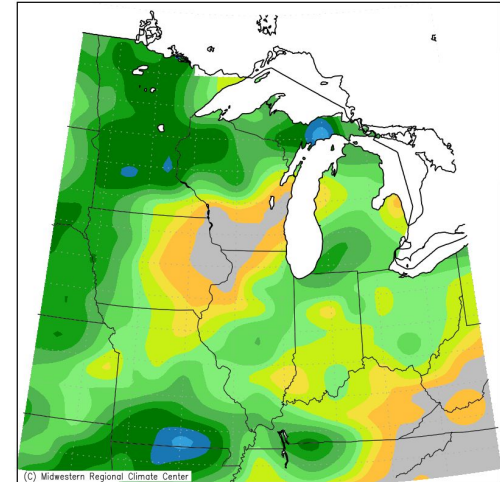
- Most of the area saw no precipitation the last week.
- Some areas, especially on the fringes of our area have seen up to one tenth of an inch of precipitation.

Accumulated Precipitation: Percent of Mean
September 29, 2023 to October 5, 2023



Midwestern Regional Climate Center
Purdue University

Accumulated Precipitation (in)
September 29, 2023 to October 5, 2023



Midwestern Regional Climate Center
Purdue University

Image Captions:
 Left - Precipitation Amount for the Midwest
 Right - Percent of Normal Precipitation for the Midwest
 Data Courtesy High Plains Regional Climate Center.
 Data over the past 7 days ending 09/21/2023

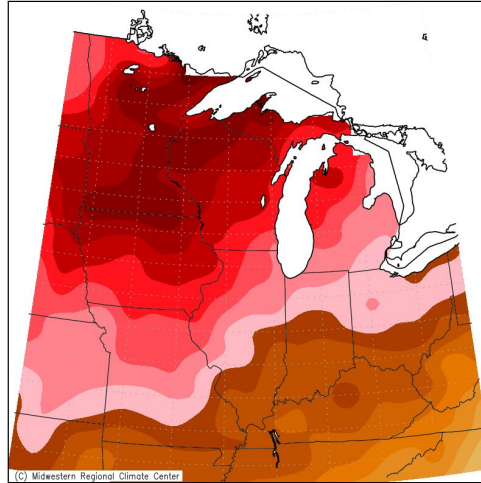




Temperature

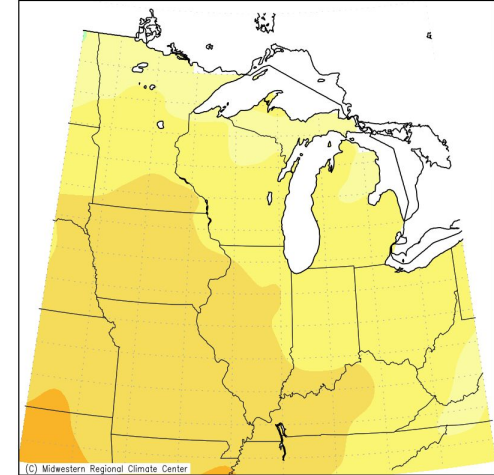
- Average temperatures ranged between 70-75 degrees. This is above normal.
- Regionally, temperatures were much above normal in Minnesota, Wisconsin, Iowa, Illinois and much of Missouri with below normal temperatures in the Ohio and Tennessee River Valleys.

Average Temperature (°F): Departure from Mean
September 29, 2023 to October 5, 2023



Midwestern Regional Climate Center
Purdue University

Average Temperature (°F)
September 29, 2023 to October 5, 2023



55 60 65 70 75 80
Midwestern Regional Climate Center
Purdue University

Image Captions:

Left - Average Temperature

Right - Departure from Normal Temperature

Data Courtesy High Plains Regional Climate Center.

Data over the past 7 days ending 09/21/2023





Summary of Impacts

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

Hydrologic Impacts

- Streamflows remain much below normal across basins throughout the region. See the next slide for more details.

Agricultural Impacts

- Anomalously dry soils remain, with crop moisture abnormally to excessively dry throughout the region.

Other Impacts

- Rainfall is forecast next week and potentially could aid in some drought relief.

Mitigation Actions

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

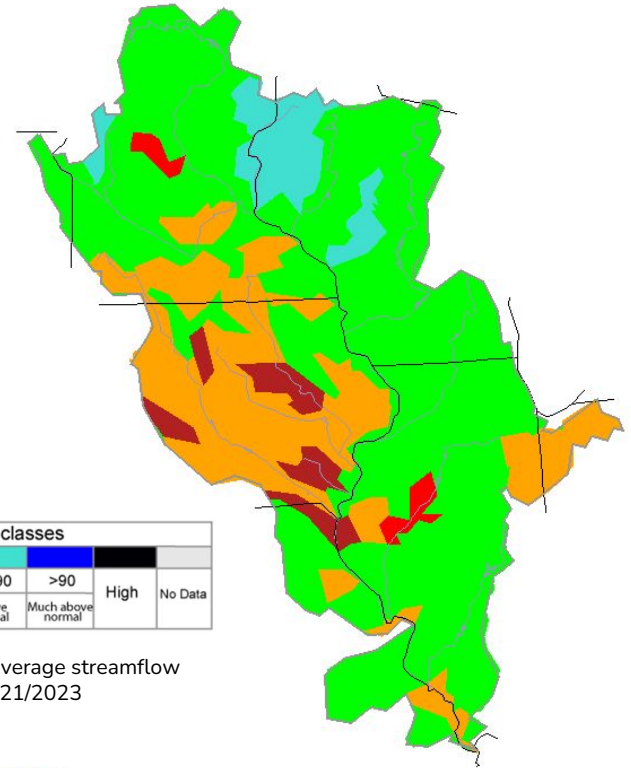




Hydrologic Conditions and Impacts

- River levels continue to drop throughout the DVN Hydrologic Service Area (HSA).
- Streamflows are running below to much below normal in many basins. In fact in Iowa, many basin levels are below the historic 10th percentile.
- Despite the low levels, the Mississippi River still remains navigable at this time.

Thursday, October 05, 2023



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 09/21/2023





Agricultural Impacts

- Locally, we are observing well below normal soil moisture. These very dry soils can be seen throughout Minnesota and Wisconsin as well.
- Much of the local area, along with areas directly north, are seeing excessively dry crop moisture.

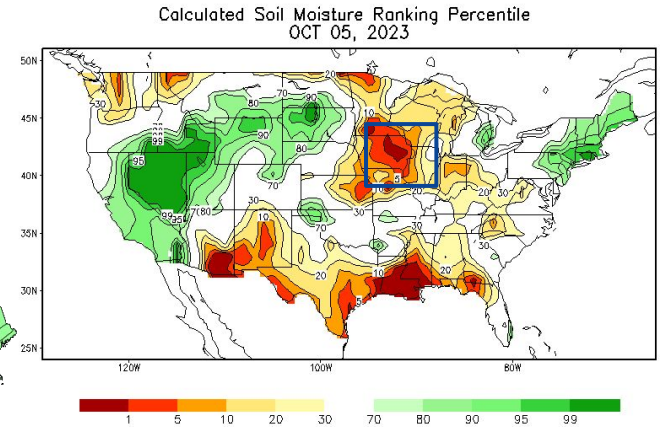
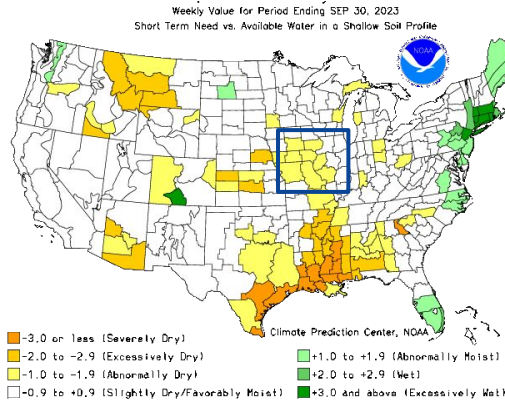


Image Captions:

Left: CPC Calculated [Soil Moisture Ranking Percentile](#) valid September 21, 2023

Right: [Crop Moisture Index by Division](#). Weekly value for period ending September 16, 2023





Seven Day Precipitation Forecast

- Through the next 7 days, we are expecting to see one to three inches of rain with local amounts over four inches possible.
- If these precipitation totals occur, some improvement in the drought conditions would be expected.

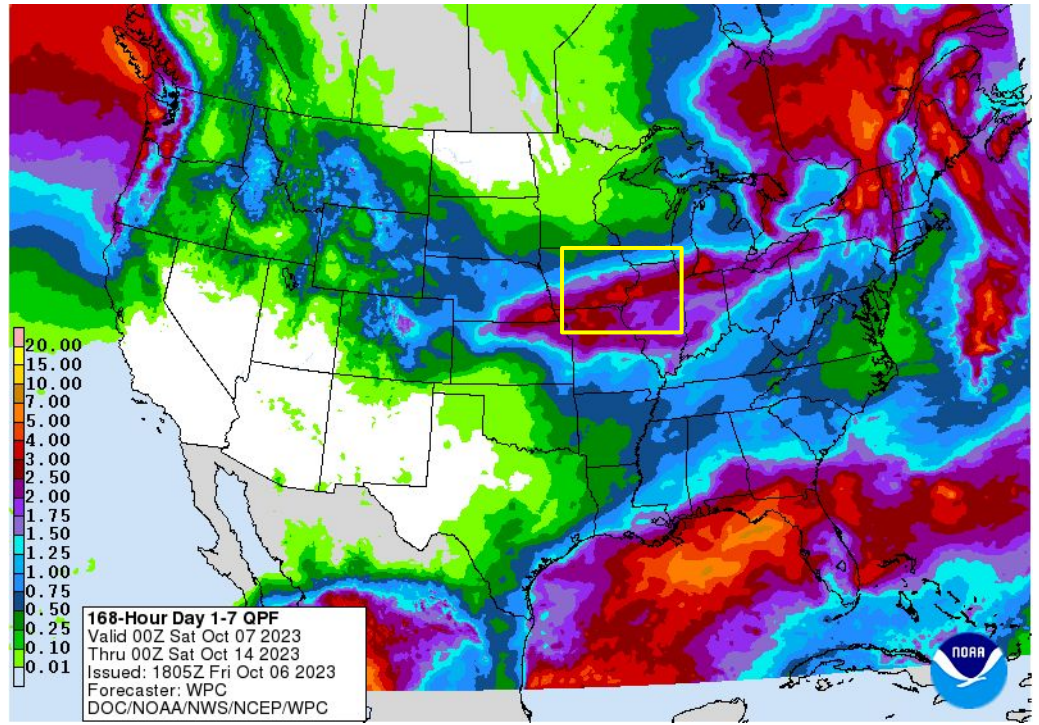


Image Caption: Weather Prediction Center [7-day precipitation forecast](#) valid Friday September 22 to Friday September 29



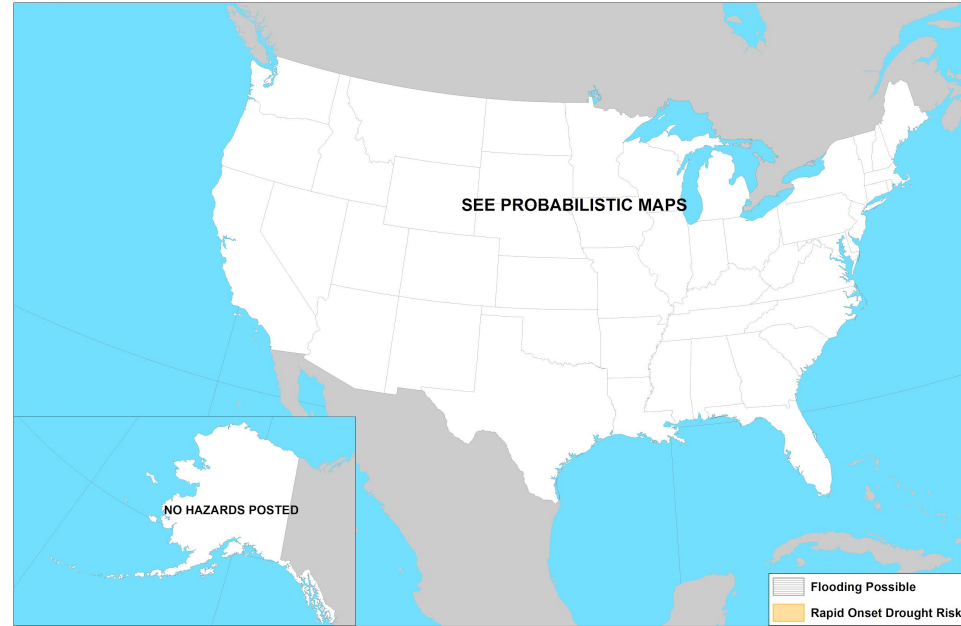
Rapid Onset Drought Outlook

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

- Throughout the region, we are not expecting any further rapid-onset drought, or flooding.



Day 8-14 U.S. Hazards Outlook
Valid: 10/14/2023-10/20/2023



Climate Prediction Center
Made: 10/06/2023 3PM EDT

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

Image Caption:

[Days 8 to 14 U.S. Hazards Outlook](#) Valid 09/30-10/06/23.





Long-Range Outlooks

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

- Above normal temperatures are favored through the month of October for much of the Midwest.
- Near to above normal precipitation is possible through October.

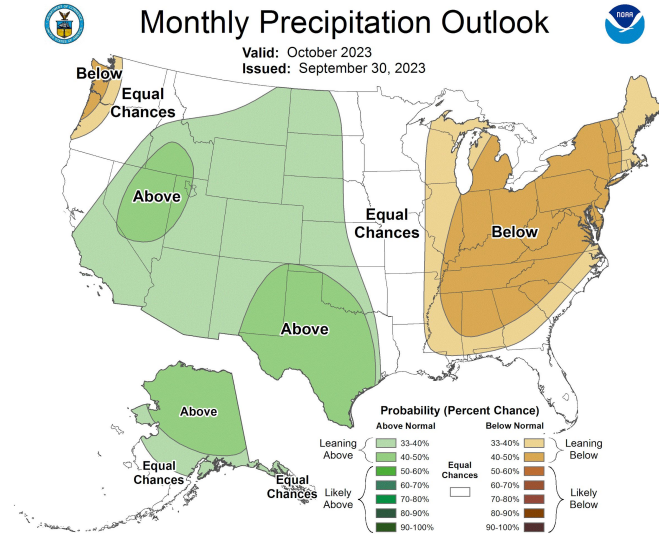
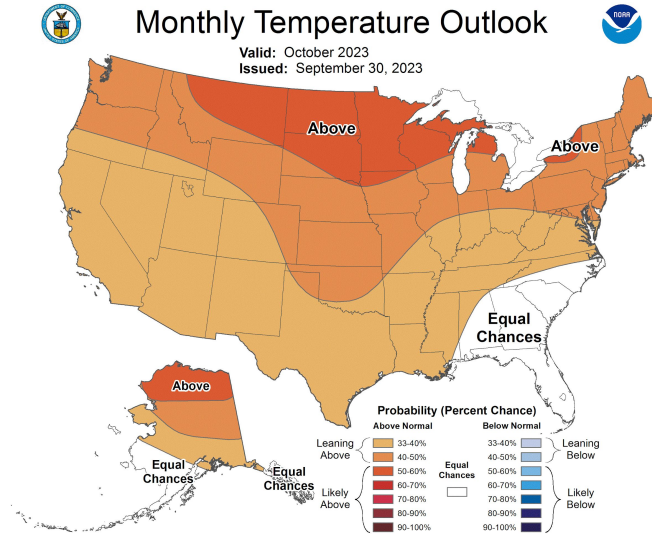


Image Captions:

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

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

Valid October 2023





Drought Outlook

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

- Drought will continue to persist through the rest of October.
- Where drought conditions are occurring, impacts will continue to gradually worsen through the rest of October.

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

Valid for October 2023
Released September 30, 2023

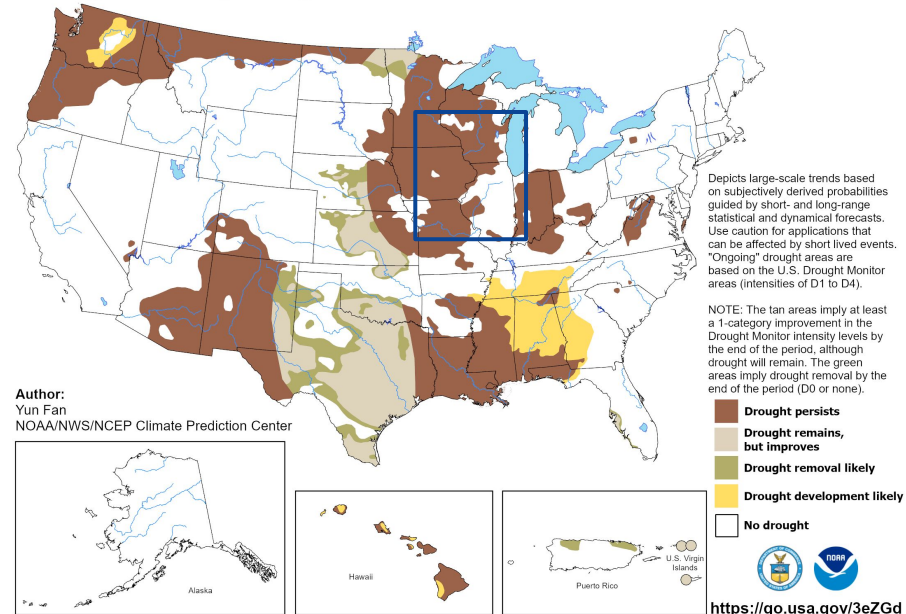


Image Caption:

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
Quad Cities IA/IL