



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

Valid September 8, 2023

Issued By: WFO Quad Cities IA/IL

Contact Information: nws.quadcities@noaa.gov

- This product will be updated September 15, 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.



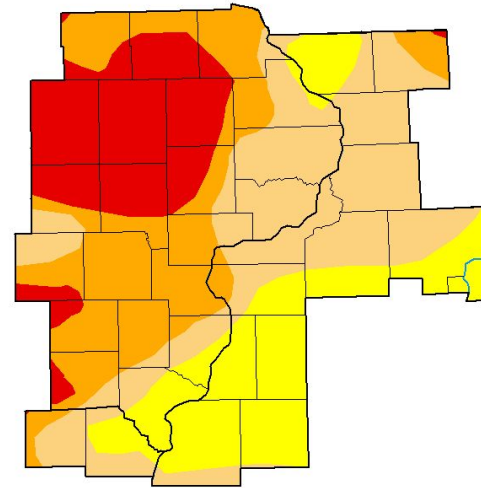


U.S. Drought Monitor

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

- Extreme Drought Conditions in Portions of the DVN CWA
- Drought intensity and Extent
 - A further degradation, albeit slight, has occurred over the past week.
 - D3 (Extreme Drought): Now covers 19% 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 77% of the DVN CWA.

U.S. Drought Monitor Quad Cities, IA/IL 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	0.00	100.00	77.63	44.01	19.44	0.00
Last Week 08-29-2023	0.08	99.92	65.89	41.65	7.97	0.00
3 Months Ago 06-06-2023	0.00	100.00	34.02	5.98	1.03	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 09-21-2022	45.56	54.44	29.22	7.55	0.00	0.00
One Year Ago 09-06-2022	60.46	39.54	30.98	15.73	0.00	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:

Richard Tinker
CPC/NOAA/NWS/NCEP



droughtmonitor.unl.edu

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





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 north-central and northeast Iowa, northern Minnesota and Wisconsin, and northern Indiana.
 - **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 Michigan, central and southern Illinois, along with parts of Missouri.

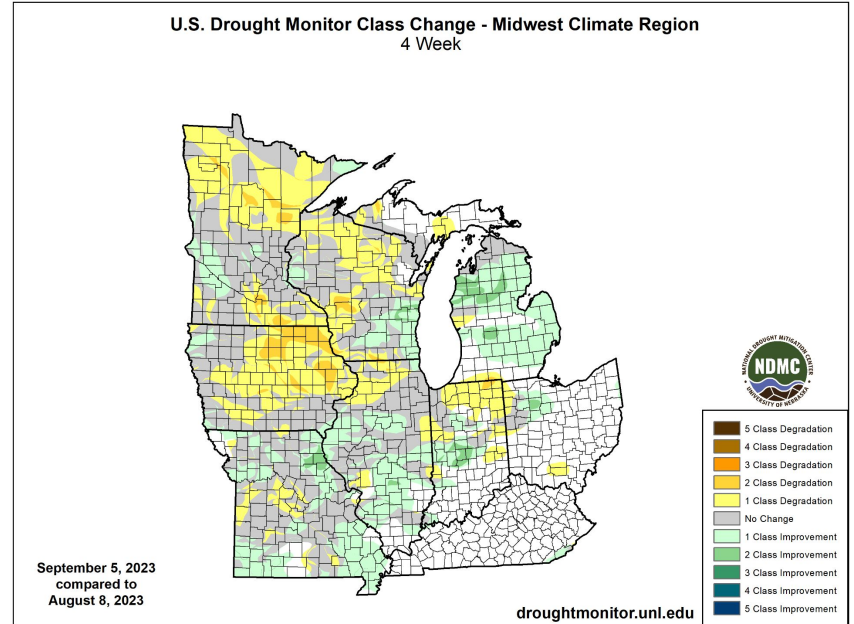


Image Caption: U.S. Drought Monitor 4-week change map valid 8am EDT September 5th.

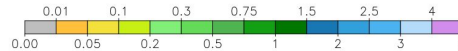
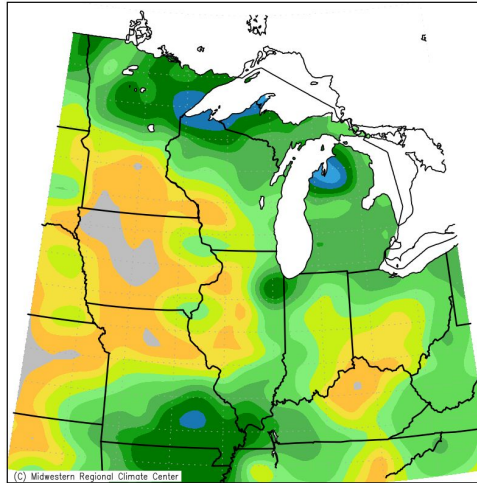




Precipitation

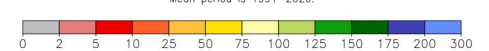
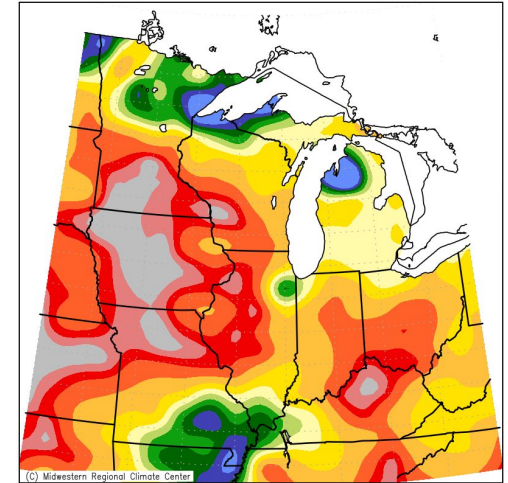
- Little to no precipitation has been seen throughout the local forecast area, with much of the area 5-25% of mean.
- Areas in northern Minnesota, Wisconsin, Michigan, and Missouri saw more precipitation in the last week. This has led to some minor improvements to the drought.

Accumulated Precipitation (in)
September 2, 2023 to September 8, 2023



Midwestern Regional Climate Center
cli-MATE: MRCC Application Tools Environment
Generated at: 9/8/2023 4:49:06 PM EDT

Accumulated Precipitation: Percent of Mean
September 2, 2023 to September 8, 2023



Midwestern Regional Climate Center
cli-MATE: MRCC Application Tools Environment
Generated at: 9/8/2023 4:49:36 PM EDT

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 30 days ending 09/07/2023

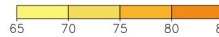
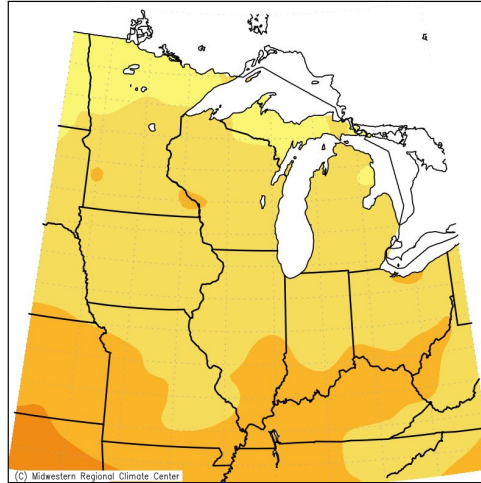




Temperature

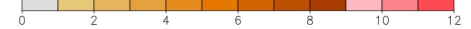
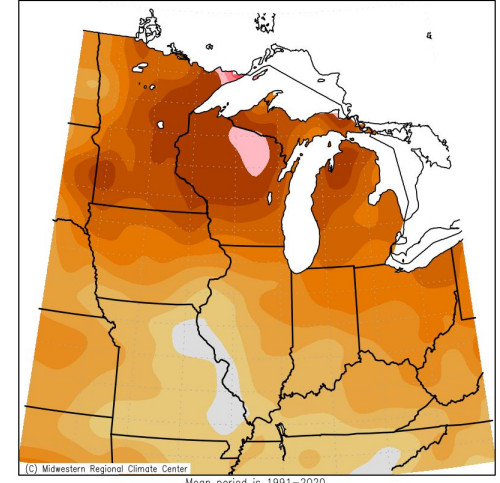
- Average temperatures, locally, ranged between 70-75 degrees. This is above normal, with areas in our north well above normal.
- Regionally, most observed above normal temperatures. This is especially true for parts of northern Minnesota and Wisconsin. Here, we saw areas between 9-12 degrees above normal!

Average Temperature (°F)
September 2, 2023 to September 7, 2023



Midwestern Regional Climate Center
cli-MATE: MRCC Application Tools Environment
Generated at: 9/8/2023 4:56:45 PM EDT

Average Temperature (°F): Departure from Mean
September 2, 2023 to September 7, 2023



Midwestern Regional Climate Center
cli-MATE: MRCC Application Tools Environment
Generated at: 9/8/2023 4:57:19 PM EDT

Image Captions:

Left - Average Temperature

Right - Departure from Normal Temperature

Data Courtesy High Plains Regional Climate Center.

Data over the past 30 days ending 09/07/2023





Summary of Impacts

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

Hydrologic Impacts

- Streamflows remain below to 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

- While we will see precipitation in the upcoming week, this will have little/no impact on the drought conditions.

Mitigation Actions

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

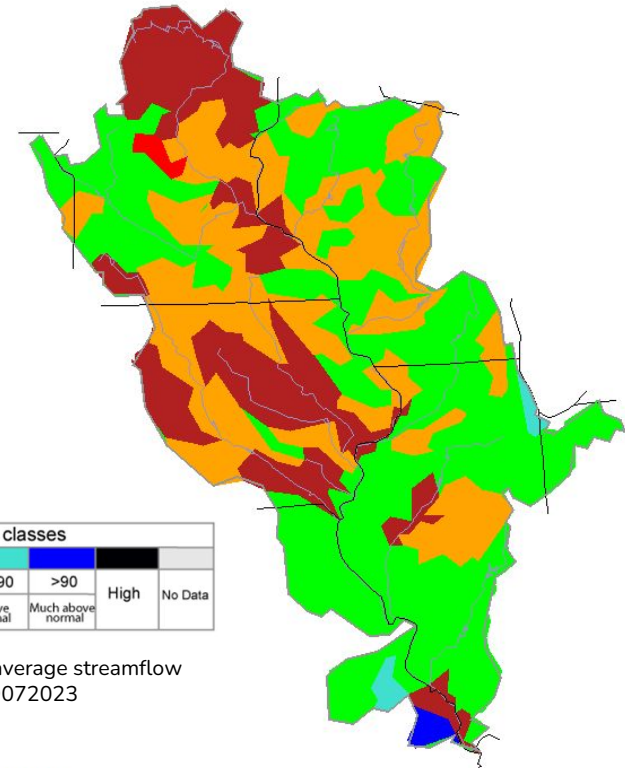




Hydrologic Conditions and Impacts

- River levels continuing dropping 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, September 07, 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 09072023





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 those directly north, are seeing excessively dry crop moisture. Surrounding those areas, we are still experiencing abnormally dry crops.

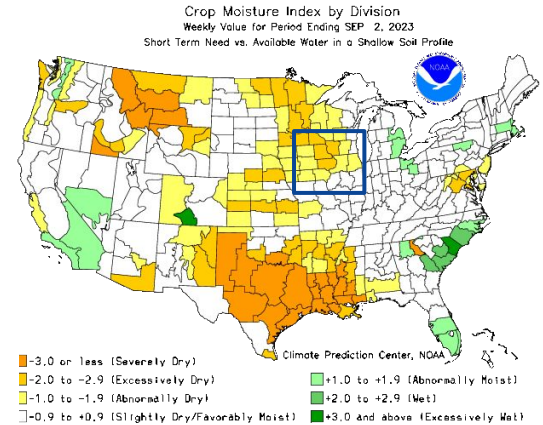
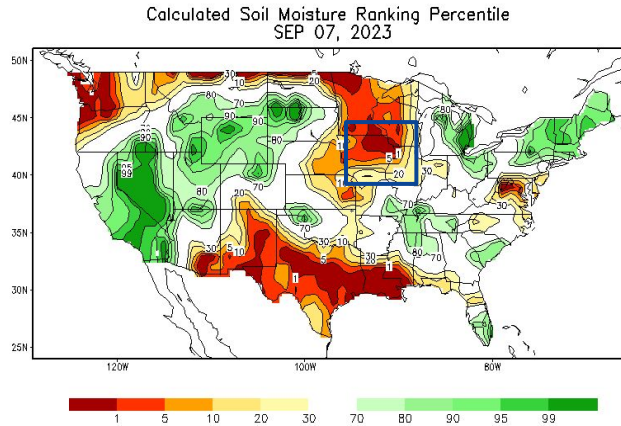


Image Captions:

Left: CPC Calculated [Soil Moisture Ranking Percentile](#) valid September 7, 2023

Right: [Crop Moisture Index by Division](#). Weekly value for period ending September 2, 2023





Seven Day Precipitation Forecast

- Through the next 7 days, we are expecting to see some much needed precipitation. Unfortunately, we are forecasting low precipitation totals, with most seeing upwards to 0.50” of rain.
- Throughout the remainder of the region, we are only expecting upwards to 0.25-0.50”.
- These precipitation totals will have little/no impact on the current drought conditions.

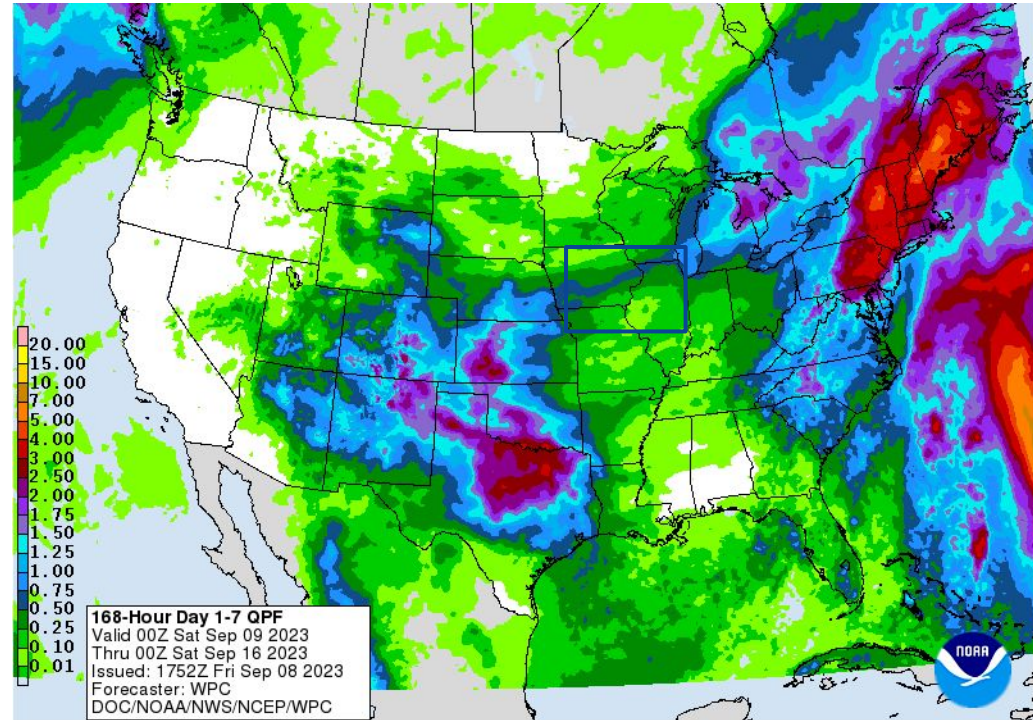


Image Caption: Weather Prediction Center [7-day precipitation forecast](#) valid Friday September 9 to Friday September 16

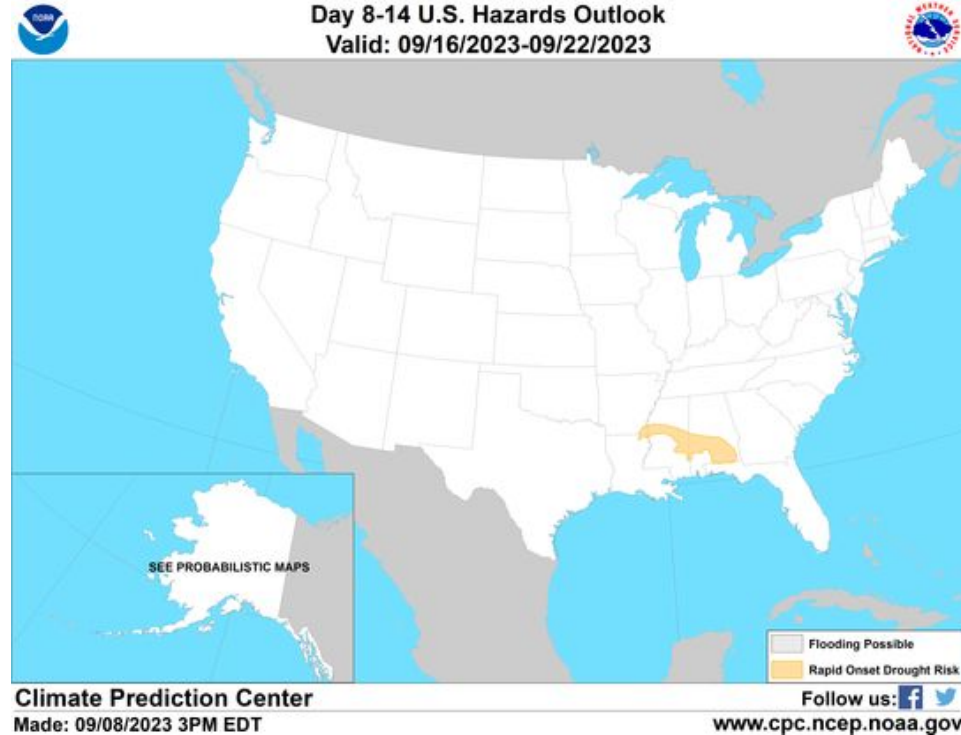




Rapid Onset Drought Outlook

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, nor possible flooding.



[Days 8 to 14 U.S. Hazards Outlook](#) Valid 09/16-09/22/23.





Long-Range Outlooks

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

- Above normal temperatures are likely to continue on average through the month of September.
- Drier than normal conditions are likely to continue through September.

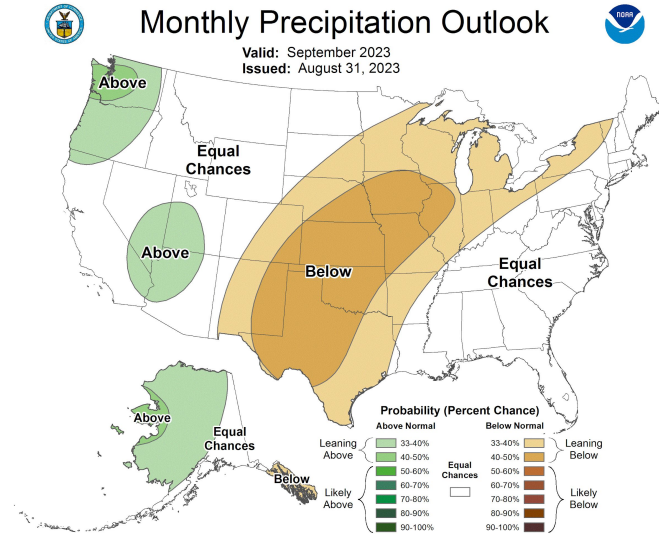
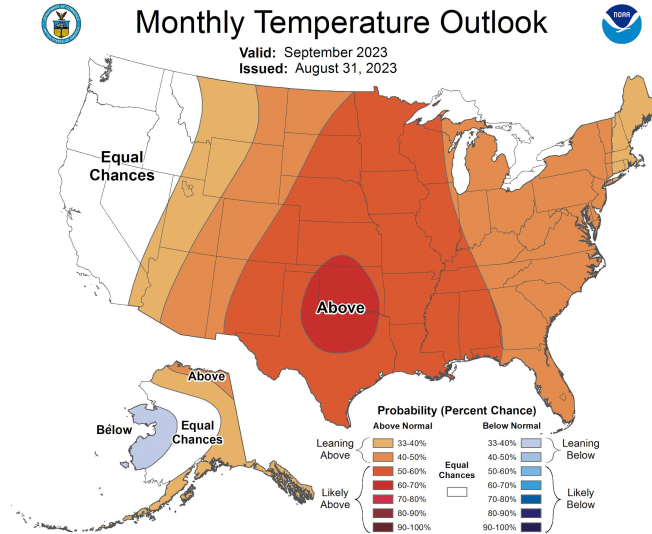


Image Captions:

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

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

Valid September 2023





Drought Outlook

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

- Drought will continue to persist this month, and may expand into portions of west central Illinois.
- Where drought conditions are occurring, impacts will likely continue to gradually worsen throughout September.

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

Valid for September 2023
Released August 31, 2023

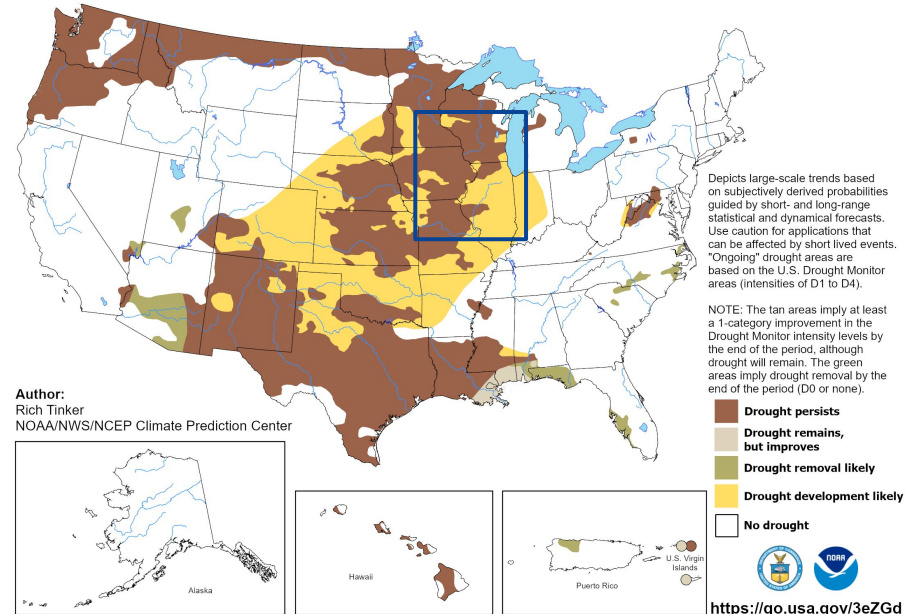


Image Caption:

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