



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

Valid September 22, 2023

Issued By: WFO Quad Cities IA/IL

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

- This product will be updated October 6, 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.



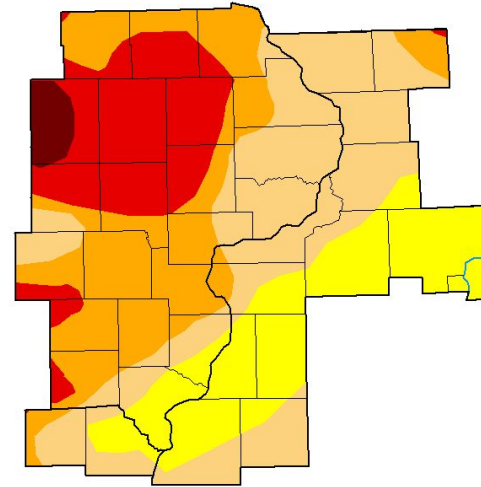


# U.S. Drought Monitor

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

- Exceptional Drought Conditions now in portions of the DVN CWA
- Drought intensity and Extent
  - A further degradation has occurred over the past week.
  - D4 (Exceptional Drought): Now covers 1.99% of eastern IA. This is the first time the D4 category has occurred in the DVN CWA.
  - 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 78% of the DVN CWA.

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



**September 19, 2023**  
(Released Thursday, Sep. 21, 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	78.45	44.01	19.44	1.99
<b>Last Week</b> 09-12-2023	0.00	100.00	80.06	44.01	19.44	0.00
<b>3 Months Ago</b> 06-20-2023	0.00	100.00	100.00	39.40	4.62	0.00
<b>Start of Calendar Year</b> 01-01-2023	44.92	55.08	22.85	7.78	0.00	0.00
<b>Start of Water Year</b> 09-27-2022	45.56	54.44	29.22	7.55	0.00	0.00
<b>One Year Ago</b> 09-20-2022	58.88	41.12	29.77	7.55	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 Heim  
NCEI/NOAA



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

Image Caption: U.S. Drought Monitor valid 8am EDT September 19th.





# 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, eastern, and northeast Iowa, southern Minnesota and Wisconsin, northern Indiana and central 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 Michigan, central and southern Illinois, along with parts of Missouri.

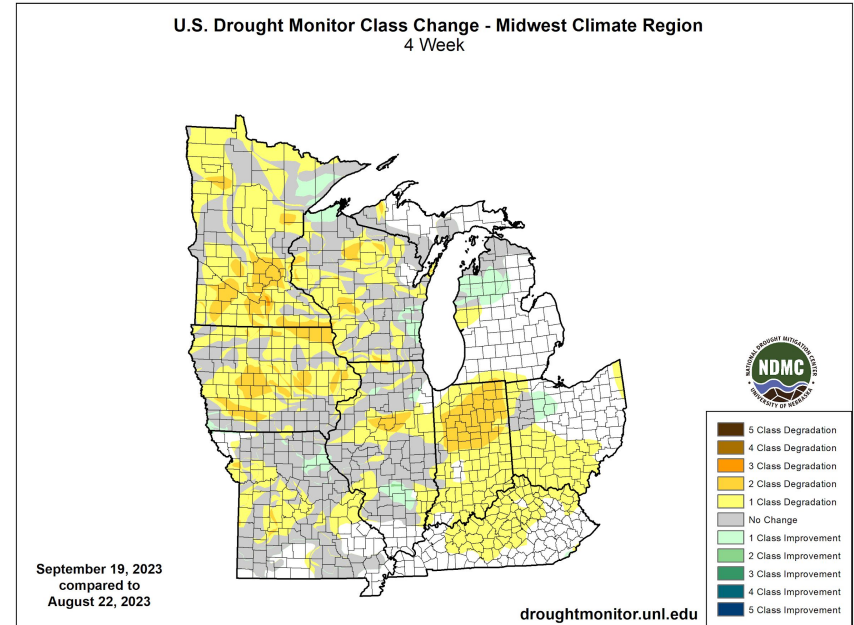


Image Caption: U.S. Drought Monitor 4-week change map valid 8am EDT September 19th.

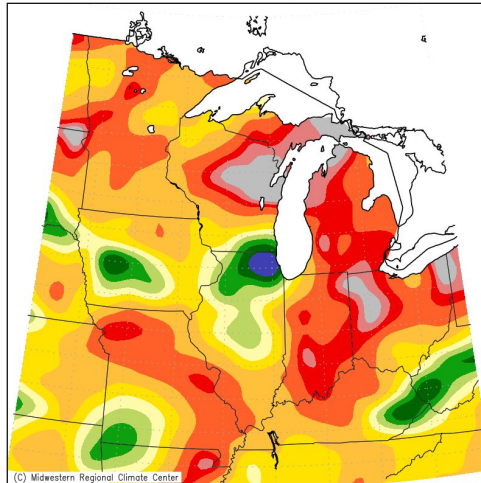




# Precipitation

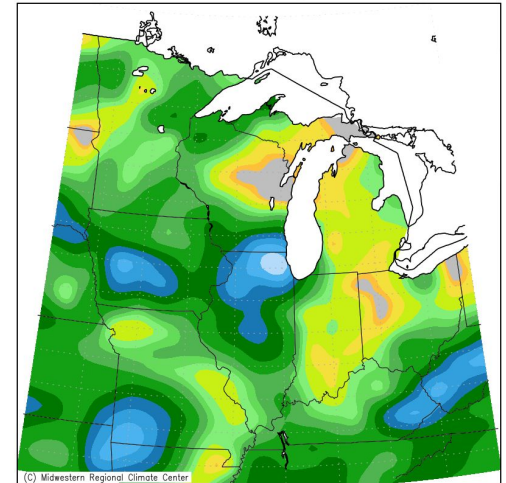
- Some much needed rain has fallen over the past 7 days, especially in Illinois where amounts over 1 inch were common.
- Little to no precipitation has been seen throughout eastern Iowa, northeast Missouri, and west central Illinois.

Accumulated Precipitation: Percent of Mean  
September 15, 2023 to September 21, 2023



(C) Midwestern Regional Climate Center  
Mean period is 1991–2020.  
0 2 5 10 25 50 75 100 125 150 175 200  
Midwestern Regional Climate Center  
Purdue University

Accumulated Precipitation (in)  
September 15, 2023 to September 21, 2023



(C) Midwestern Regional Climate Center  
0.01 0.05 0.15 0.3 0.75 1.25 1.75  
0.00 0.02 0.1 0.2 0.5 1 1.5 2  
Midwestern Regional Climate Center  
Purdue University

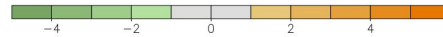
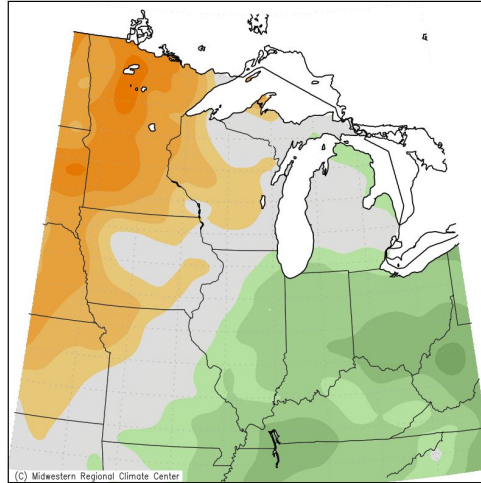
Image Captions:  
Left - Precipitation Amount for the Midwest  
Right - Percent of Normal Precipitation for the Midwest  
Data Courtesy High Plains Regional Climate Center.  
Data over the past 7 days ending 09/21/2023



# Temperature

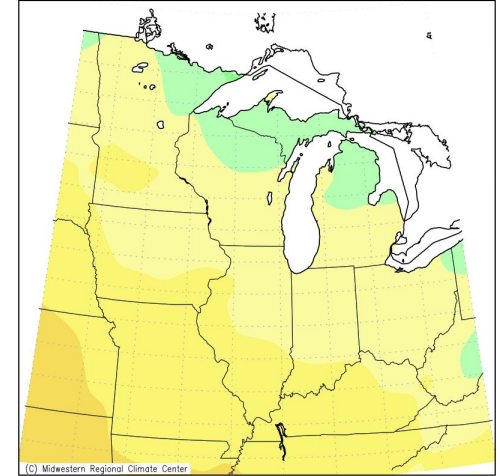
- Average temperatures ranged between 65-70 degrees. This is slightly above normal.
- Regionally, cooler than normal temperatures occurred in the Ohio River valley and warmer than normal temperatures in Minnesota, Wisconsin, Iowa, and northwest Missouri.

Average Temperature (°F): Departure from Mean  
September 15, 2023 to September 21, 2023



Midwestern Regional Climate Center  
Purdue University

Average Temperature (°F)  
September 15, 2023 to September 21, 2023



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

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

## Mitigation Actions

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

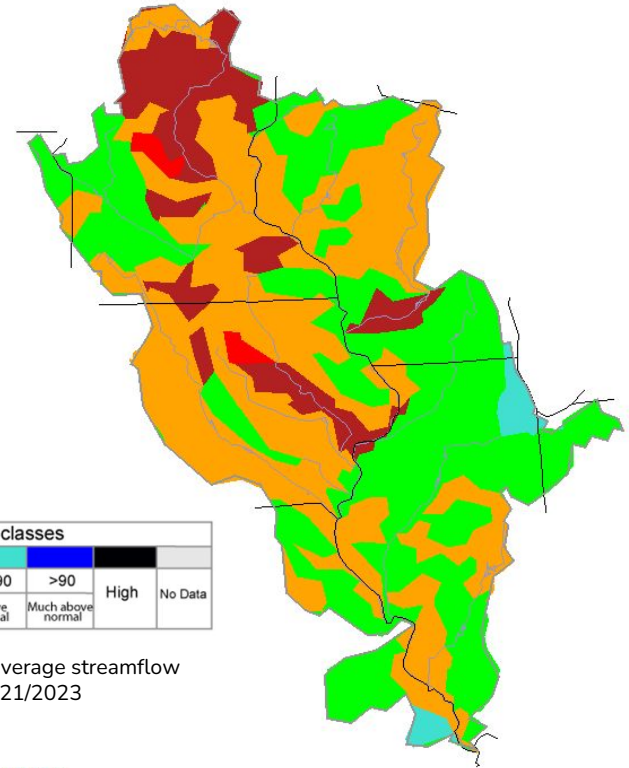




# Hydrologic Conditions and Impacts

- River levels 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, September 21, 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.

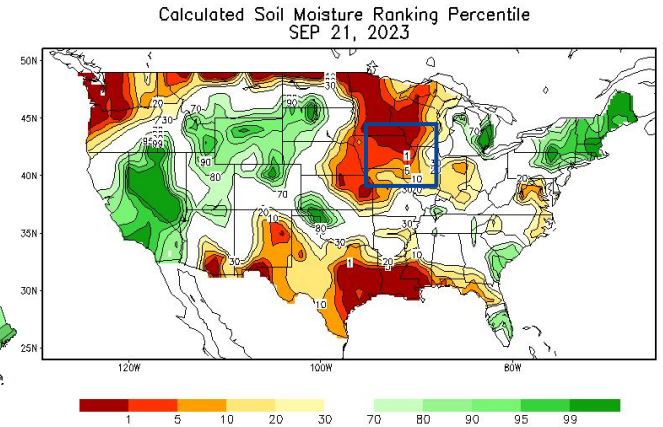
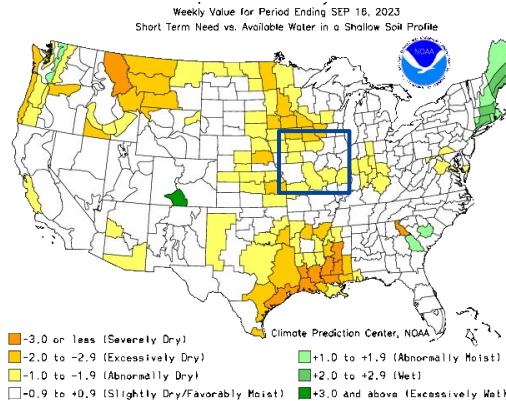


Image Captions:

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 some rainfall, especially in Iowa. Unfortunately, rain totals less than a half inch are likely.
- These precipitation totals will have little to no impact on the current drought conditions.

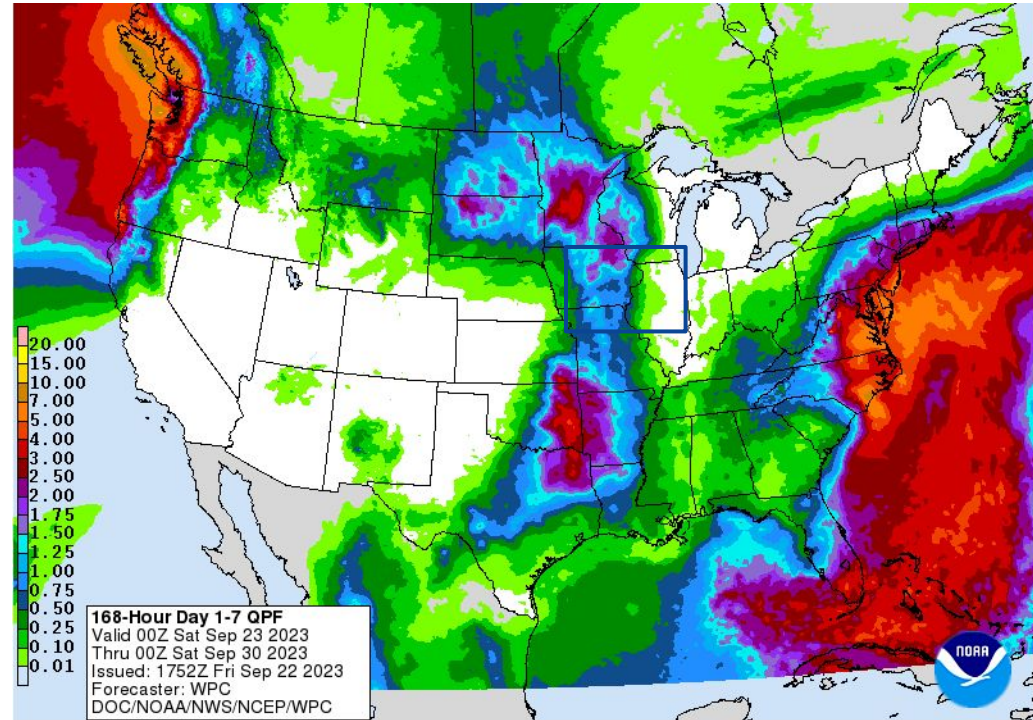


Image Caption: Weather Prediction Center [7-day precipitation forecast](#) valid Friday September 22 to Friday September 29





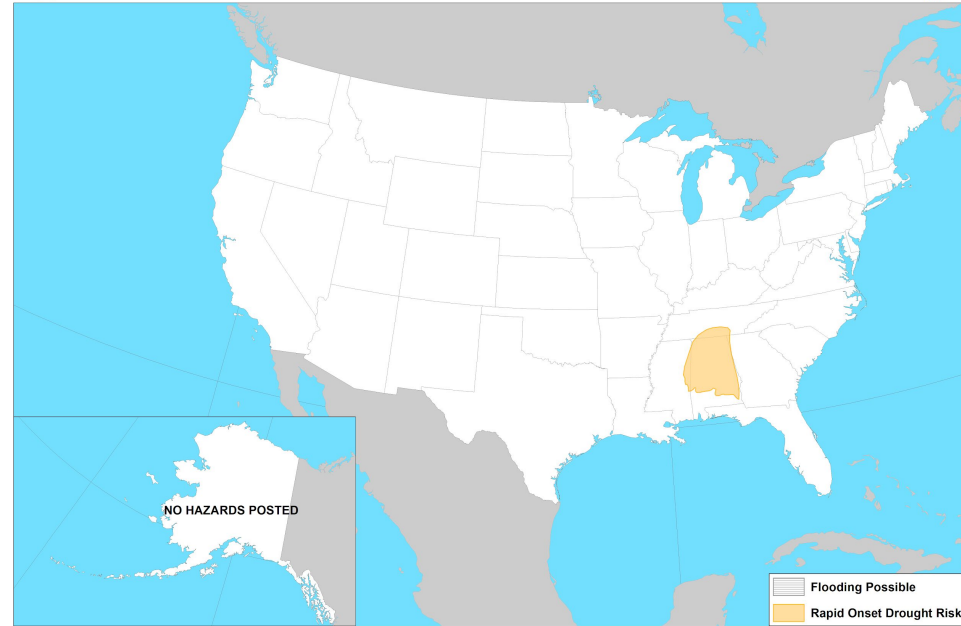
# Rapid Onset Drought Outlook

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: 09/30/2023-10/06/2023



Climate Prediction Center  
Made: 09/22/2023 3PM EDT

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

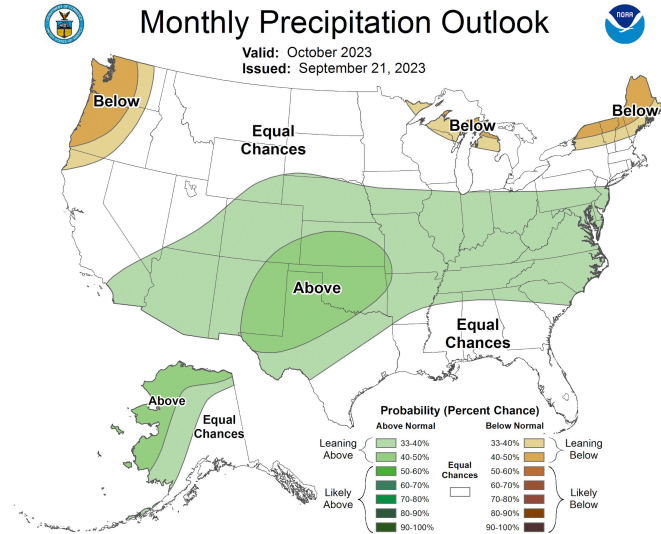
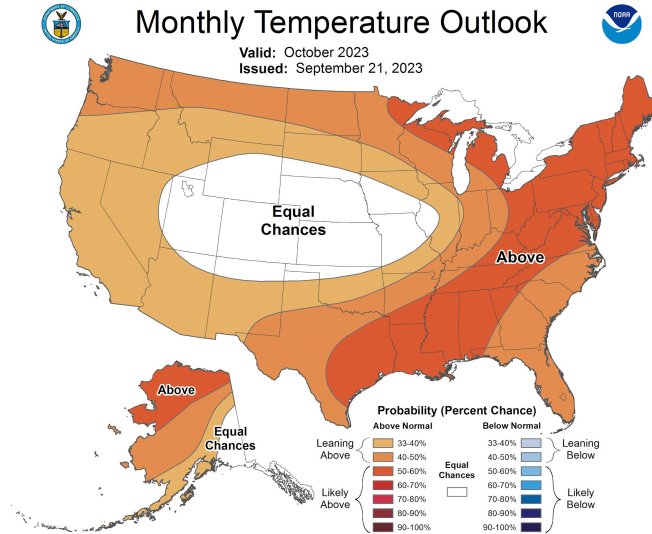


Image Captions:

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

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

Valid for September 2023  
Released August 31, 2023

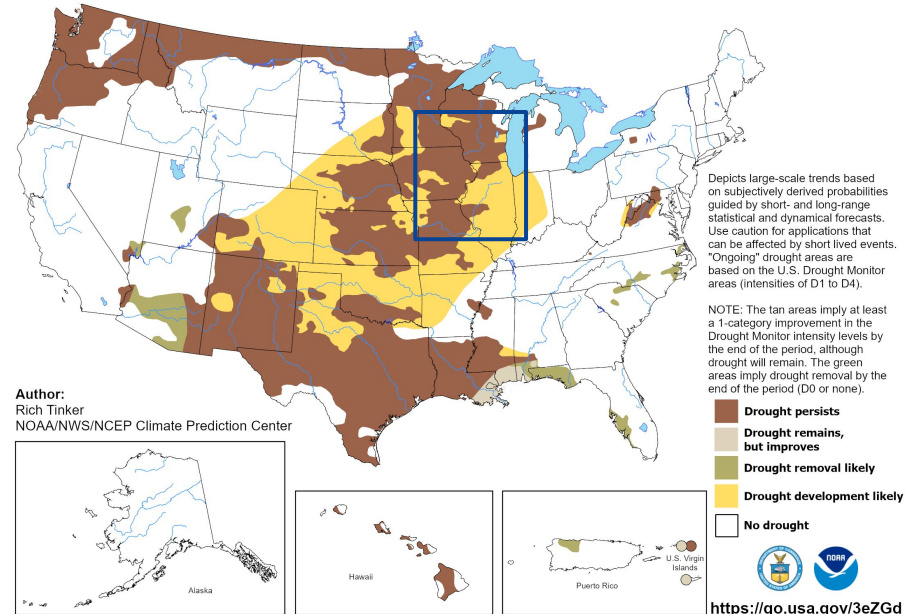


Image Caption:

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