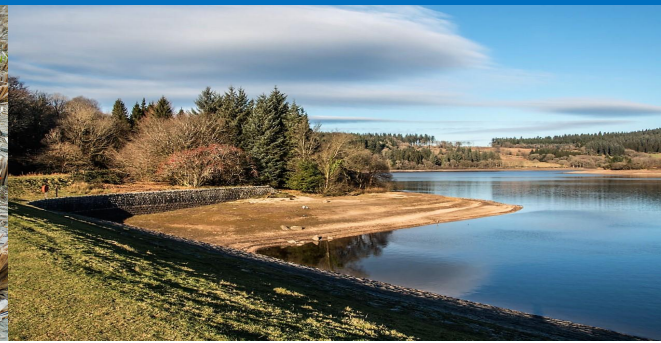
Drought Information Statement for Eastern IA, Northwest IL & Northeast MO

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.

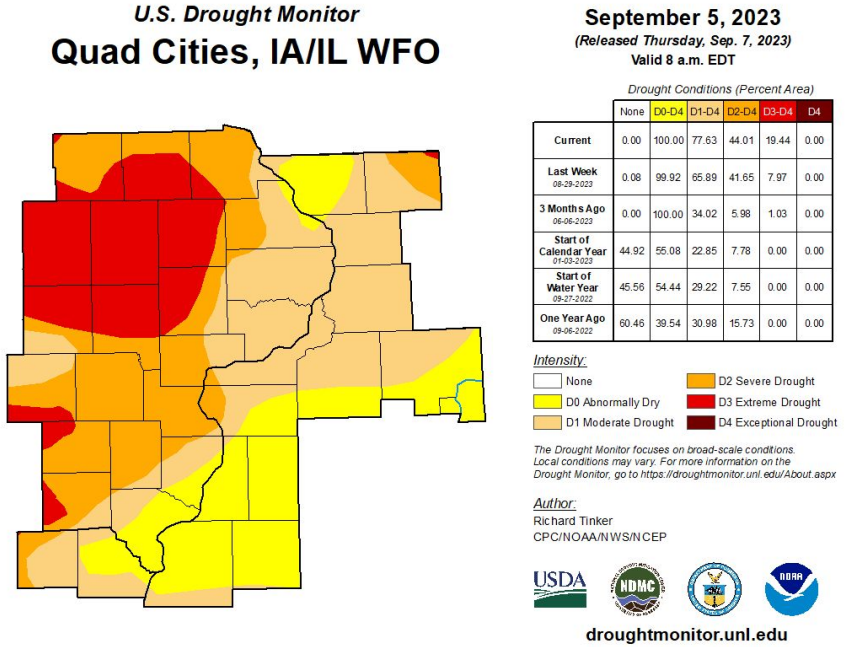


Image Caption: U.S. Drought Monitor valid 8am EDT September 5th.

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.

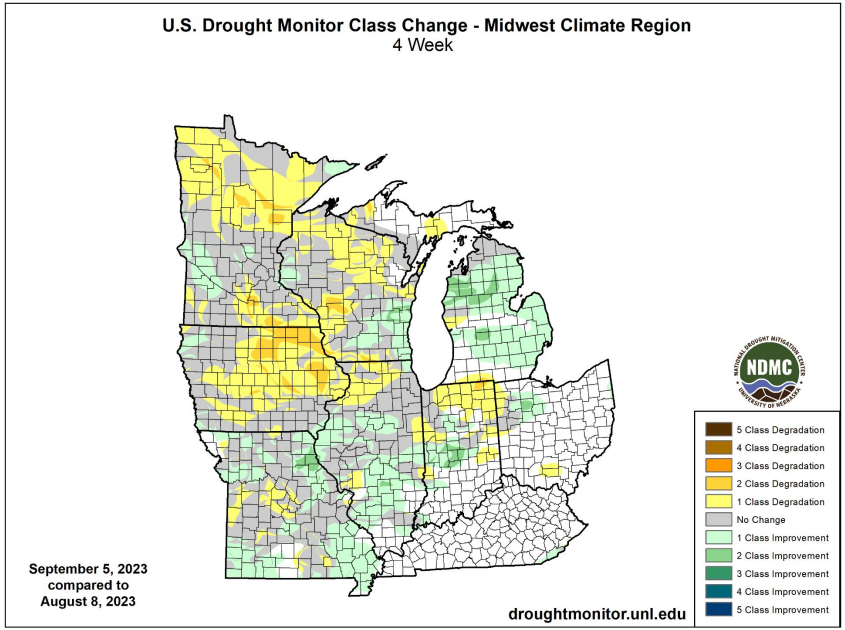
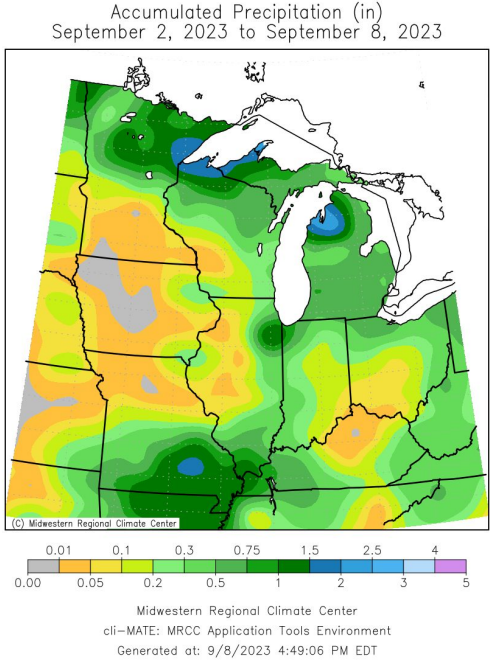


Image Caption: U.S. Drought Monitor 4-week change map valid 8am EDT September 5th.

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.



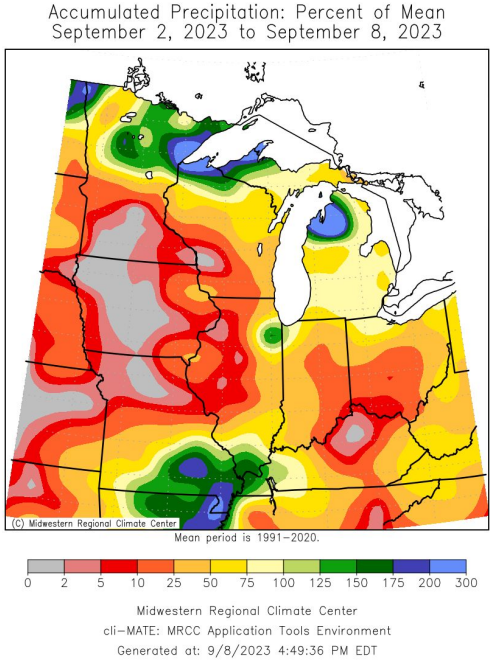
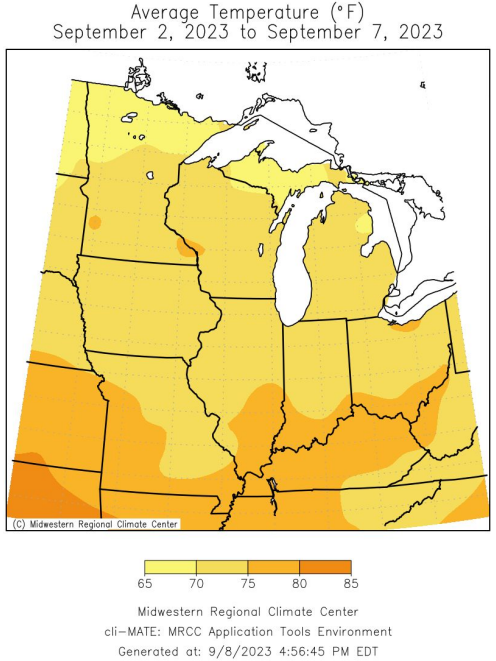


Image Captions:
Left - Precipitation Amount for the Midwest
Right - Percent of Normal Precipitation for the Midwest
Data Courtesy High Plains Regional Climate Center.
Data over the past 30 days ending 09/07/2023

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!



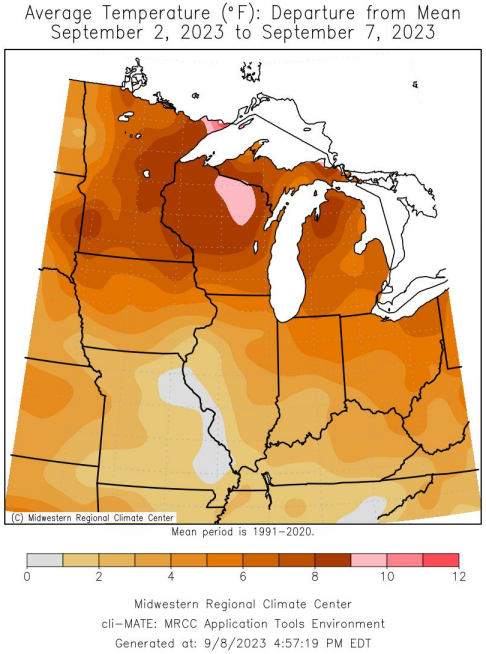


Image Captions:
Left - Average Temperature
Right - Departure from Normal Temperature
Data Courtesy High Plains Regional Climate Center.
Data over the past 30 days ending 09/07/2023

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.

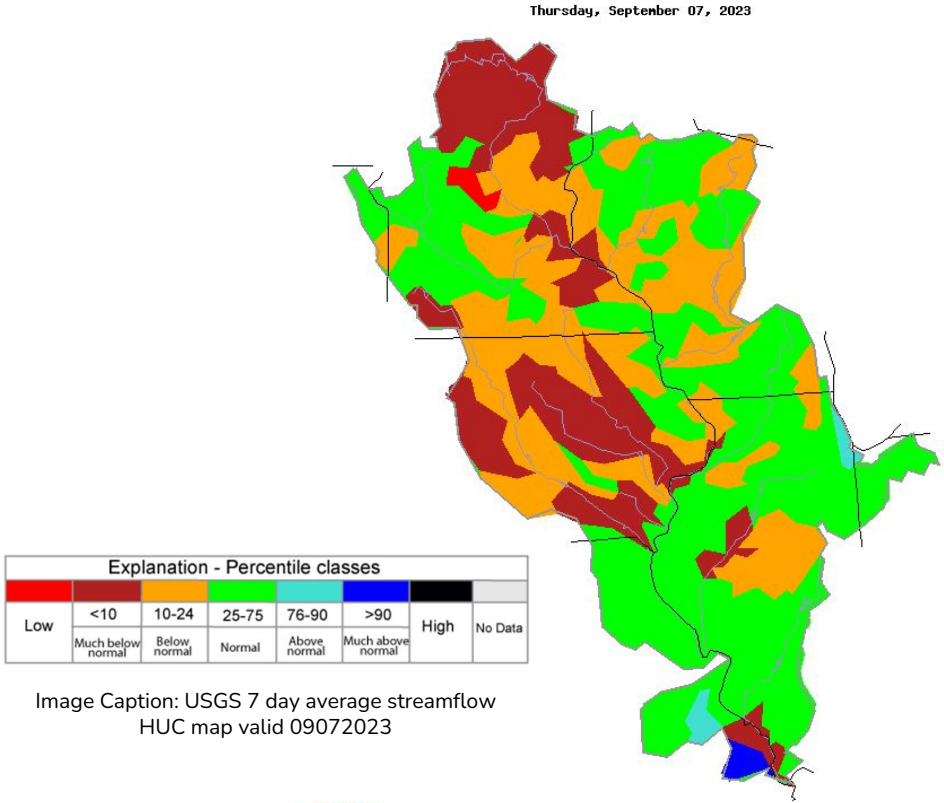
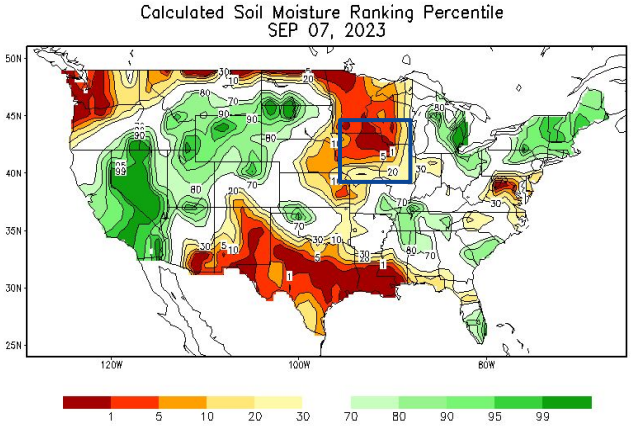


Image Caption: USGS 7 day average streamflow
HUC map valid 09072023

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 area, we are still experiencing abnormally dry crops.



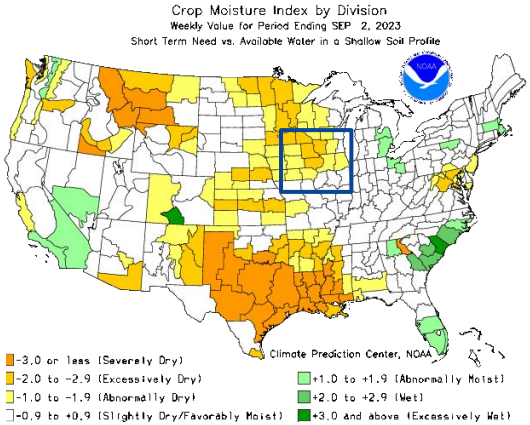


Image Captions:
Left: CPC Calculated Soil Moisture Ranking Percentile valid September 7, 2023
Right: Crop Moisture Index by Division. Weekly value for period ending September 2, 2023

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.

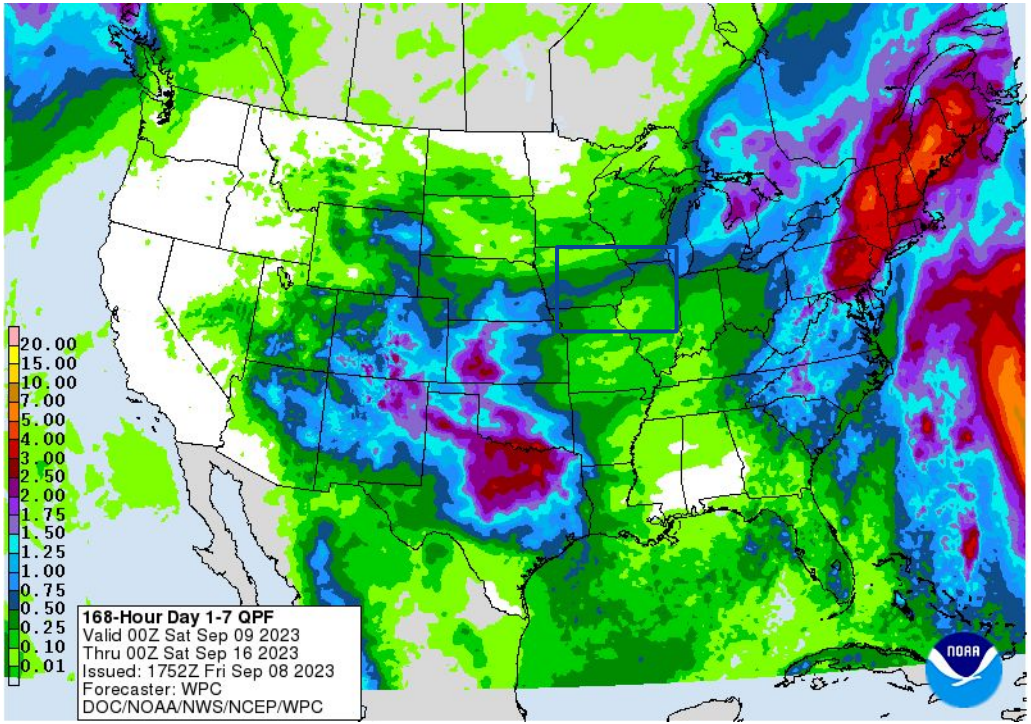


Image Caption: Weather Prediction Center 7-day precipitation forecast valid Friday September 9 to Friday September 16

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.

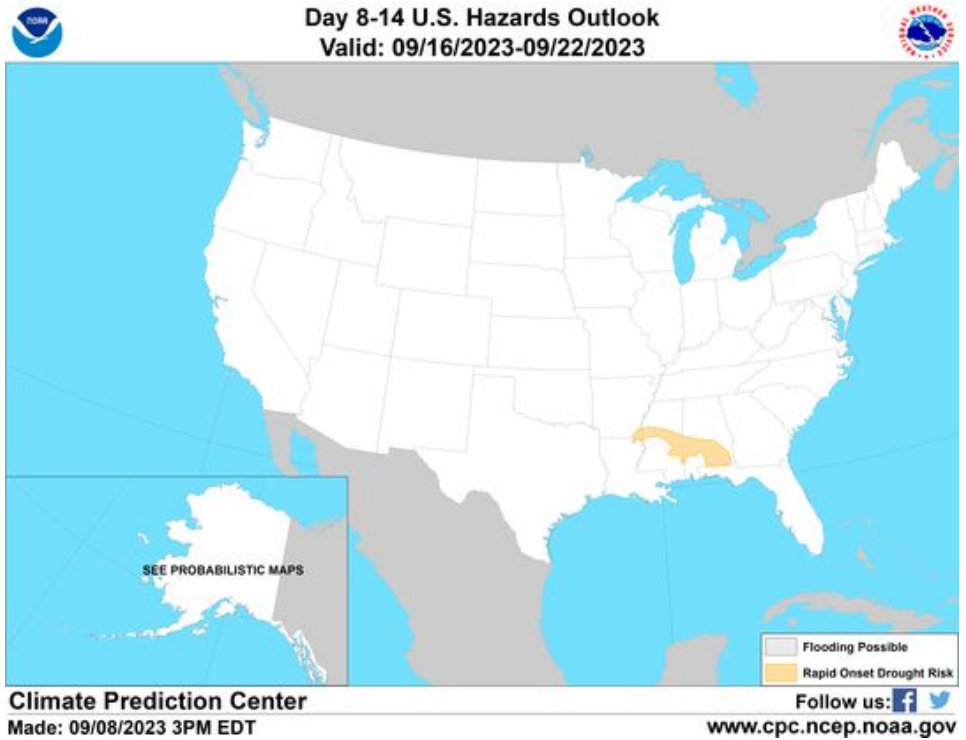
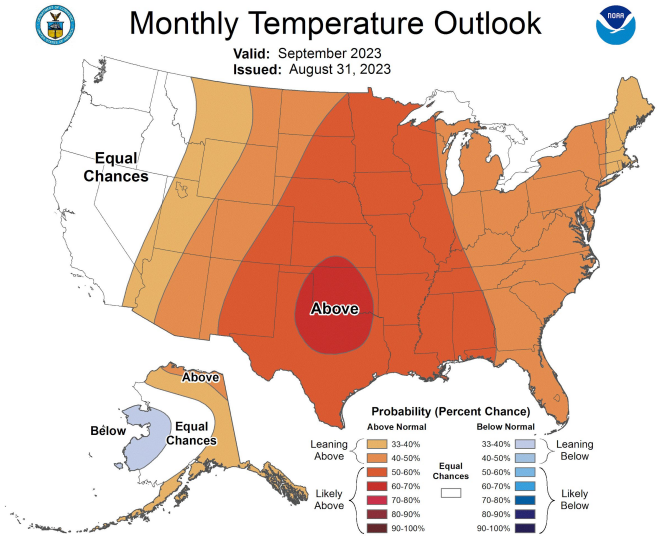


Image Caption:
Days 8 to 14 U.S. Hazards Outlook Valid 09/16-09/22/23.

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.



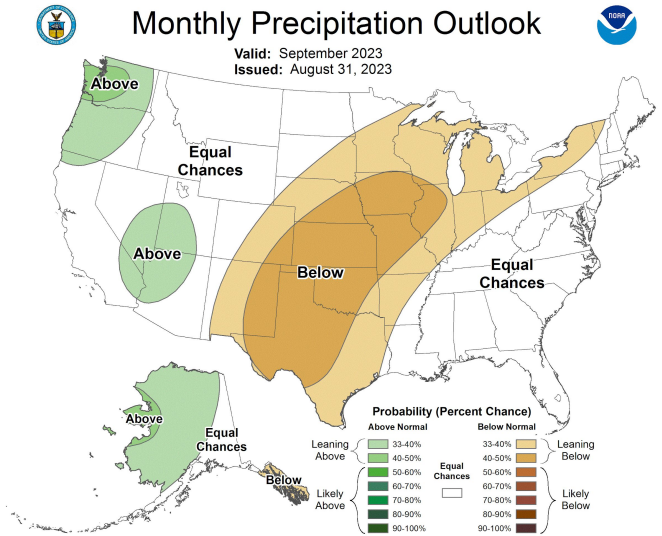
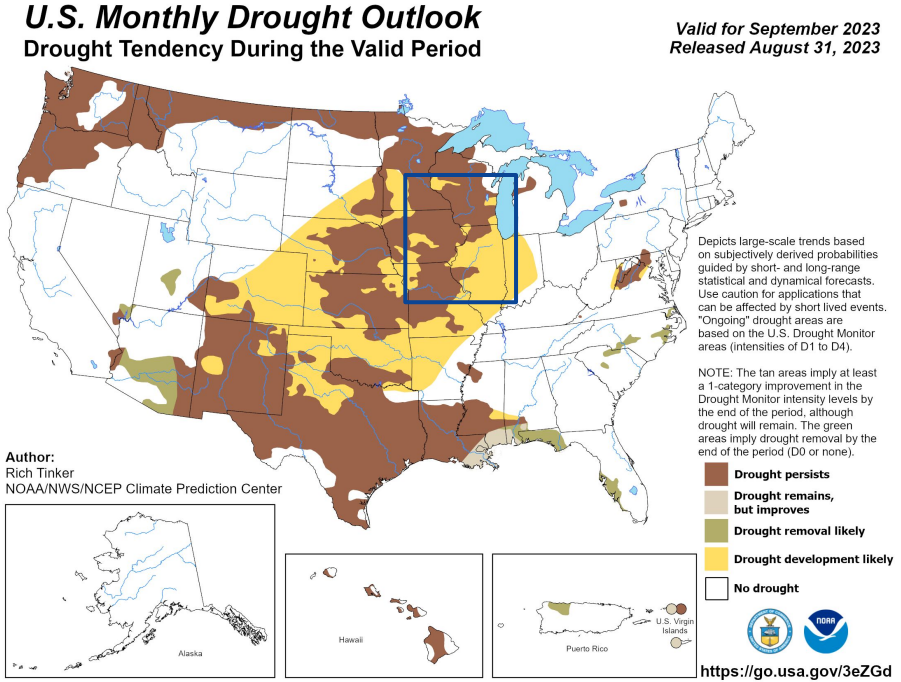


Image Captions:
Left - Climate Prediction Center Monthly Temperature Outlook.
Right - Climate Prediction Center Monthly Precipitation Outlook.
Valid September 2023

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.



Links to the latest:
Climate Prediction Center Monthly Drought Outlook
Climate Prediction Center Seasonal Drought Outlook

Image Caption:
Climate Prediction Center Monthly Drought Outlook Released August 31, 2023 valid for September, 2023