



Drought Information Statement for Eastern NE and Southwest IA

Valid September, 21, 2023

Issued By: NWS Omaha/Valley, NE

Contact Information: nws.omaha@noaa.gov

- This product will be updated October, 26, 2023 or sooner if drought conditions change significantly.
- Please see all currently available products at <https://drought.gov/drought-information-statements>.
- Please visit <https://weather.gov/oax/DroughtInformationStatement> for previous statements.



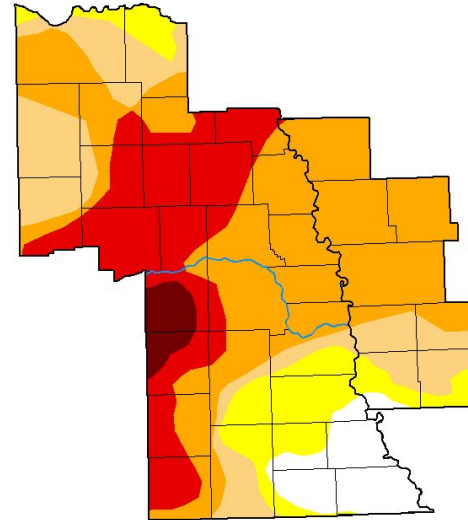


U.S. Drought Monitor

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

- DROUGHT CONDITIONS HEADLINE/KEY MESSAGE
- Drought intensity and Extent
 - D4 (Exceptional Drought): Portions of Butler and Seward.
 - D3 (Extreme Drought): Pierce, Wayne, Thurston, Madison, Stanton, Cuming, Burt, Boone, Platte, Colfax, Butler, Saunders, Seward, Lancaster, Saline, Jefferson in eastern NE.
 - D2 (Severe Drought): Knox, Cedar, Antelope, Pierce, Wayne, Madison, Cuming, Burt, Boone, Platte, Colfax, Dodge, Washington, Butler, Saunders, Dodge, Sarpy, Seward, Lancaster, Cass, Saline, Jefferson, and Gage counties in Eastern NE. Monona, Shelby, Pottawattamie, Mills and Montgomery in southwest IA.
 - D1 (Moderate Drought): Portions of northeast NE, southeast, NE, and southwest IA.
 - D0: (Abnormally Dry): Portions of southeast NE and southwest IA.

U.S. Drought Monitor Omaha/Valley, NE 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
Current	7.27	92.73	81.17	63.74	23.02	2.38
Last Week 09-12-2023	7.27	92.73	81.17	63.74	20.36	0.00
3 Months Ago 06-20-2023	0.00	100.00	98.07	86.45	57.56	24.37
Start of Calendar Year 01-01-2023	0.00	100.00	99.29	77.57	47.08	24.75
Start of Water Year 09-27-2022	0.00	100.00	88.12	56.59	27.35	12.46
One Year Ago 09-20-2022	0.00	100.00	88.12	56.47	27.34	12.46

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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NCEI/NOAA



droughtmonitor.unl.edu

Image Caption: U.S. Drought Monitor valid 8am EDT Sep 19th, 2023.





Recent Change in Drought Intensity

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

- Four Week Drought Monitor Class Change.
 - Drought Worsened: portions of southeast NE, northeast NE, and southwest Iowa.
 - No Change: A very large area of eastern NE and southwest IA.
 - Drought Improved: Portions of eastern NE and southwest IA.

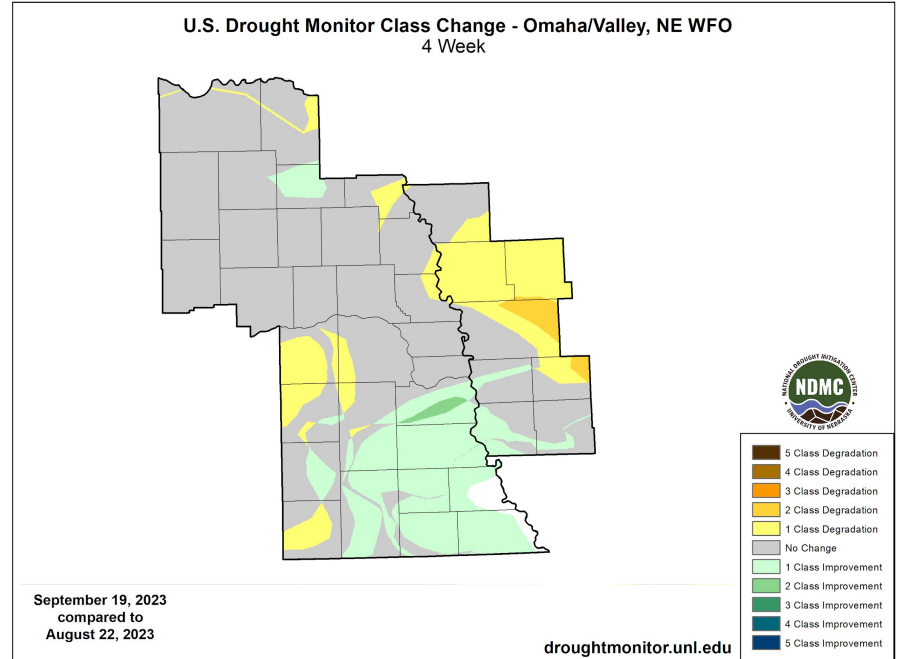


Image Caption: U.S. Drought Monitor 4-week change map valid 8am EDT September 19th.

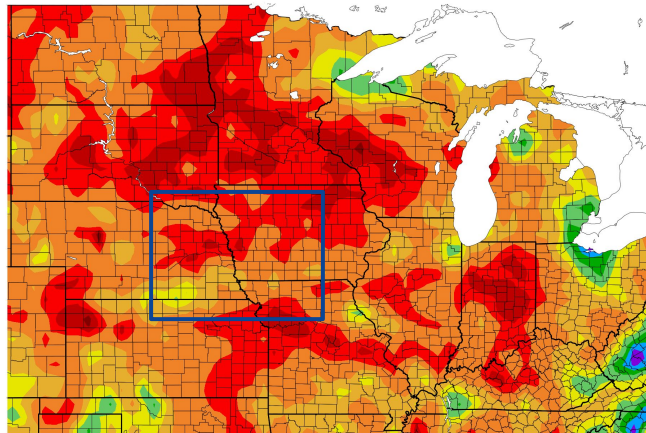




Precipitation

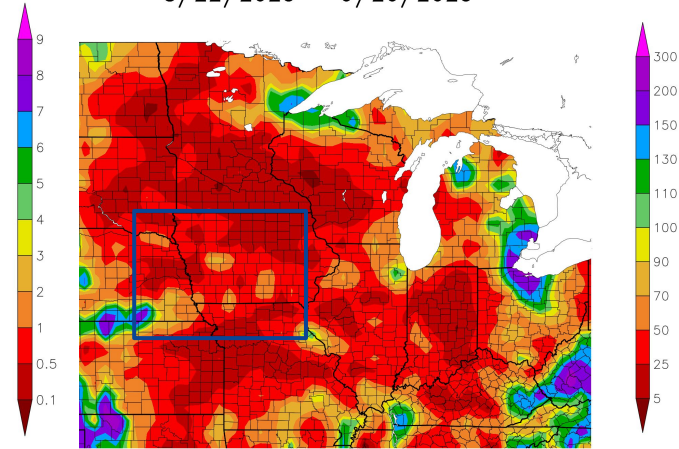
- Precipitation across the region over the previous 30 days has generally been below normal, except for a small portion in southeast Nebraska.
- Precipitation has been 25-50% of normal over a wide area.

Precipitation (in)
8/22/2023 – 9/20/2023



Generated 9/21/2023 at HPRCC using provisional data.

Percent of Normal Precipitation (%)
8/22/2023 – 9/20/2023



NOAA Regional Climate Centers 23 at HPRCC using provisional data.

NOAA Regional Climate Centers

Image Captions:
Left - Precipitation Amount for Midwest US
Right - Percent of Normal Precipitation for Midwest US
Data Courtesy High Plains Regional Climate Center.
Data over the past 30 days ending September 20, 2023

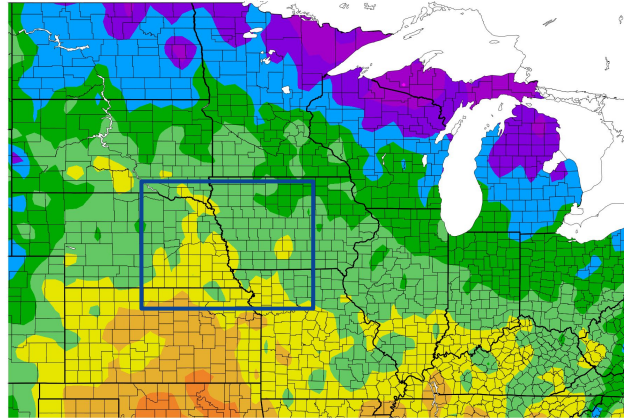




Temperature

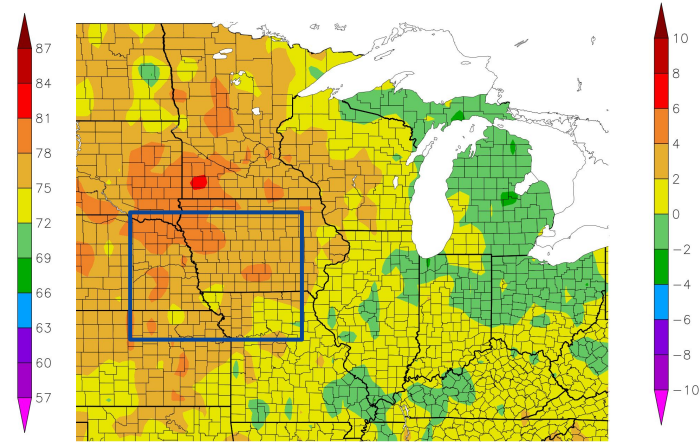
- Temperatures over the previous 30 days have been above normal, generally 2 to 4 degrees above normal over a widespread area.

Temperature (F)
8/22/2023 – 9/20/2023



Generated 9/21/2023 at HPRCC using provisional data.

Departure from Normal Temperature (F)
8/22/2023 – 9/20/2023



NOAA Regional Climate Centers ⁰²³ at HPRCC using provisional data.

NOAA Regional Climate Centers

Image Captions:
Left - Average Temperature Midwest US
Right - Departure from Normal Temperature Midwest US
Data Courtesy High Plains Regional Climate Center.
Data over the past 30 days ending September 20, 2023





Summary of Impacts

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

Hydrologic Impacts

- Local streamflow is 10-25% of normal. Precipitation deficits for the year are running 4-5.5” below normal.

Agricultural Impacts

- Soil moisture remains low.

Fire Hazard Impacts

- There are no known impacts at this time.

Other Impacts

- There are no known impacts at this time.

Mitigation Actions

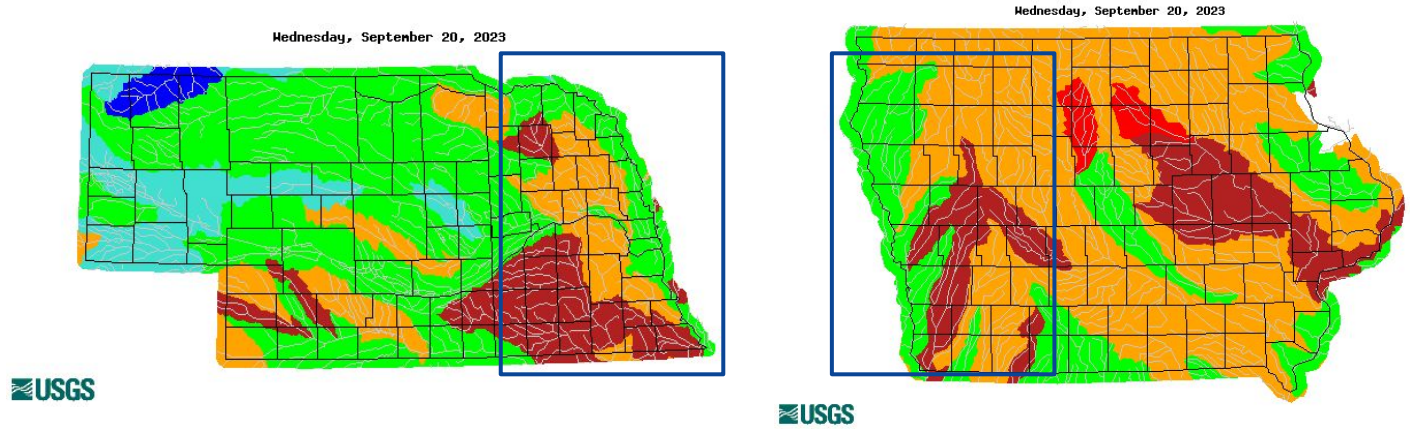
- Please refer to your municipality and/or water provider for mitigation information.





Hydrologic Conditions and Impacts

- Except for the Missouri River, various streamflows over the previous week have been well below normal, ranging 10-25% of expected flows.



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 Captions:

Left USGS 7 day average streamflow NE HUC map
 Right USGS 7 day average streamflow IA HUC map
 valid September 20, 2023

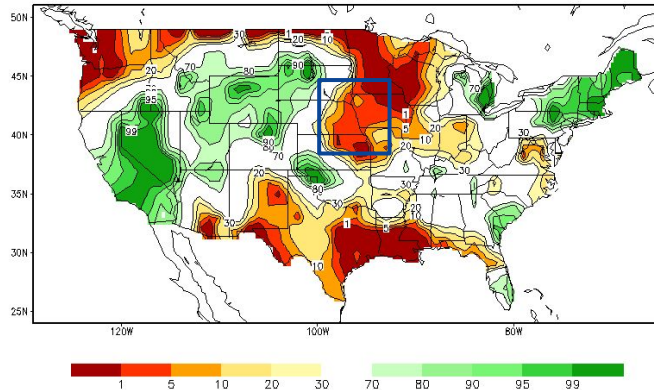




Agricultural Impacts

- Soil moisture continues to run below normal, and the crop moisture index is running Abnormally to Excessively Dry.

Calculated Soil Moisture Ranking Percentile
SEP 20, 2023



Crop Moisture Index by Division
Weekly Value for Period Ending SEP 16, 2023
Short Term Need vs. Available Water in a Shallow Soil Profile

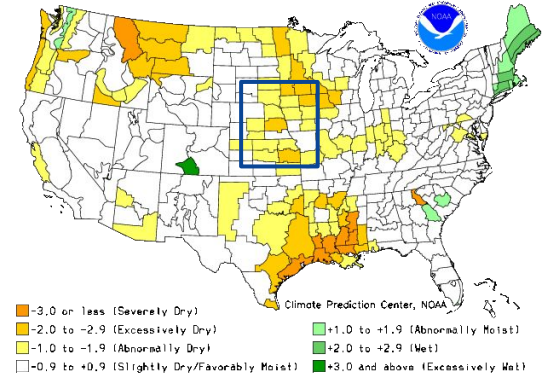


Image Captions:

Left: CPC Calculated [Soil Moisture Ranking Percentile](#) valid September 20, 2023

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





Seven Day Precipitation Forecast

- We do have a few chances of precipitation in the coming week, primarily through Saturday, September 23.
- Rainfall forecasts in the in the 0.50” to 1.50” range.

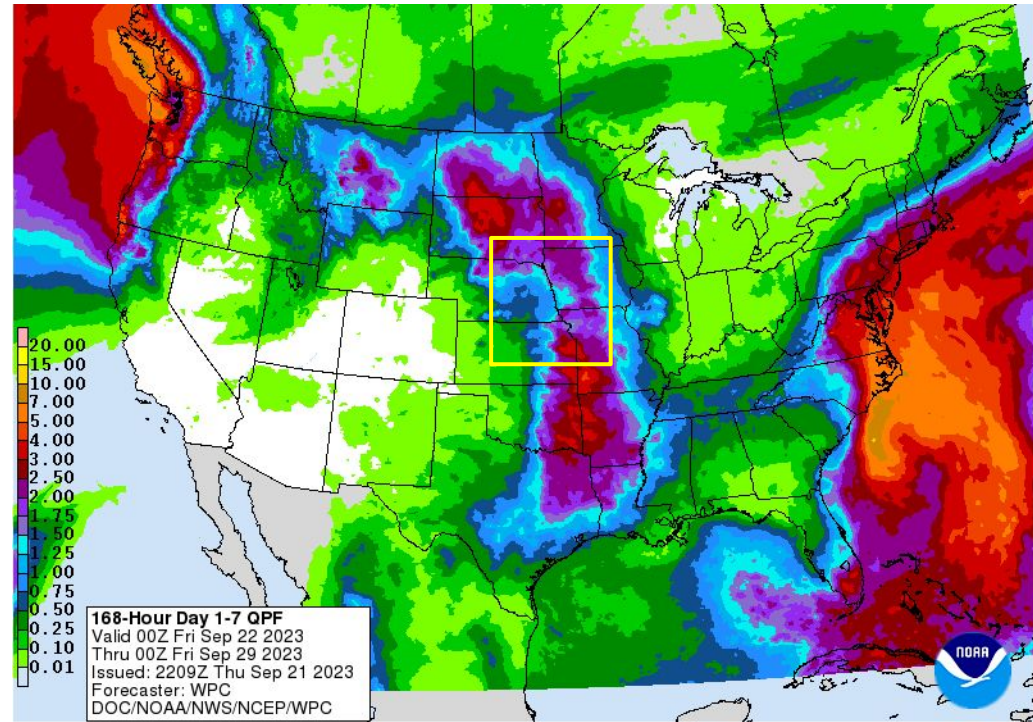


Image Caption: Weather Prediction Center [7-day precipitation forecast](#) valid Friday September 9, 2023 to Friday, September 16, 2023





Long-Range Outlooks

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

- The seasonal outlook for October, November, and December calls for equal chances of above, normal, or below normal for both temperatures and precipitation.

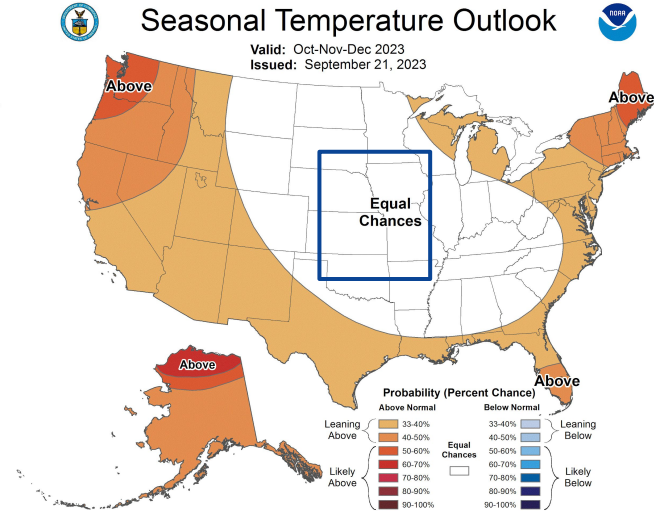
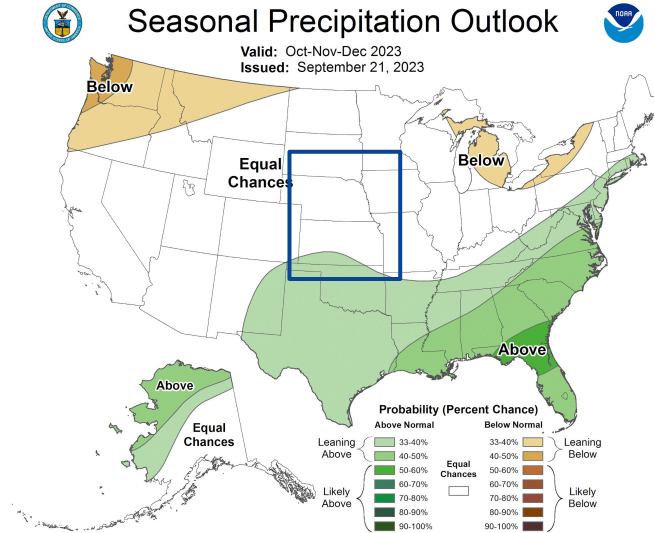


Image Captions:

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

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

Issued September 21, 2023, Valid Oct-Nov-Dec 2023





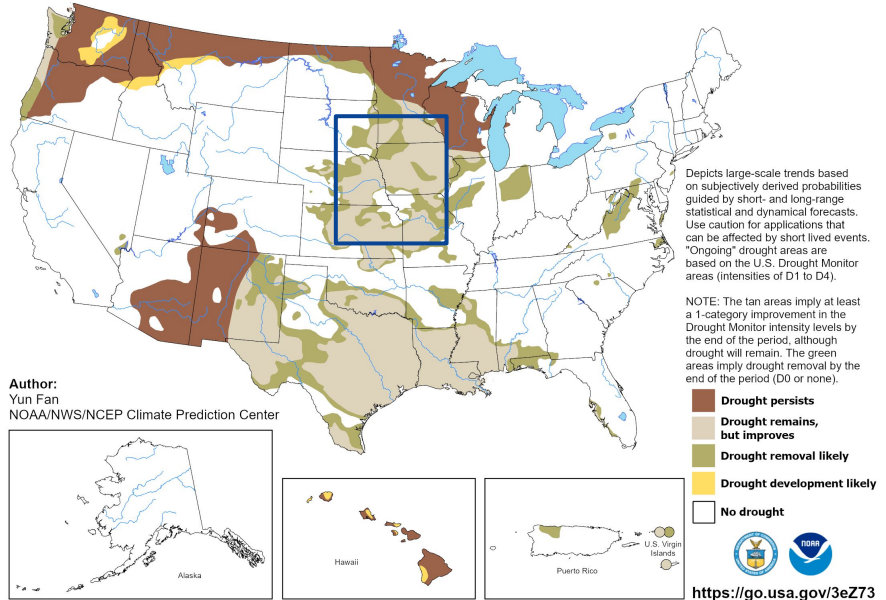
Drought Outlook

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

- The drought outlook for October through December calls for drought to remain, but there could be some improvement.

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

Valid for September 21 - December 31, 2023
Released September 21, 2023



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 September 21, 2023, valid September 21 - December 31, 2023

