



# Drought Information Statement for Eastern NE and Southwest IA

Valid September, 9, 2023

Issued By: NWS Omaha/Valley, NE

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

- This product will be updated October, 5, 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.



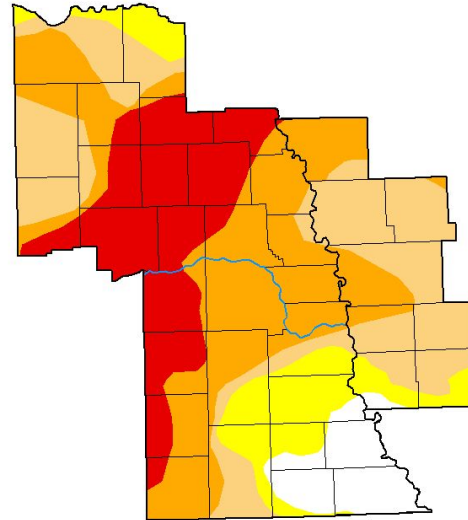


# U.S. Drought Monitor

Link to the [latest U.S. Drought Monitor](#) for Eastern NE and Southwest IA

- DROUGHT CONDITIONS HEADLINE/KEY MESSAGE
- Drought intensity and Extent
  - D4 (Exceptional Drought): No counties affected.
  - D3 (Extreme Drought): Pierce, Wayne, Thurston, Madison, Stanton, Cuming, Burt, Boone, Platte, Colfax, Butler, Seward, Saline, Jefferson in eastern NE.
  - D2 (Severe Drought): Knox, Cedar, Antelope, 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, and Mills 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 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	7.28	92.72	80.86	53.71	21.45	0.00
Last Week 08-29-2023	8.15	91.85	79.18	53.71	20.85	0.00
3 Months Ago 06-06-2023	2.29	97.71	87.71	73.70	43.29	23.39
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 09-06-2022	5.17	94.83	70.72	47.79	24.34	12.46

Intensity

None	D0 Abnormally Dry	D1 Moderate Drought	D2 Severe Drought	D3 Extreme Drought	D4 Exceptional Drought
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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](http://droughtmonitor.unl.edu)

Image Caption: U.S. Drought Monitor valid 8am EDT Sep 5th, 2023.



# Recent Change in Drought Intensity

Link to the latest [4-week change map](#) for Eastern NE and Southwest IA

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

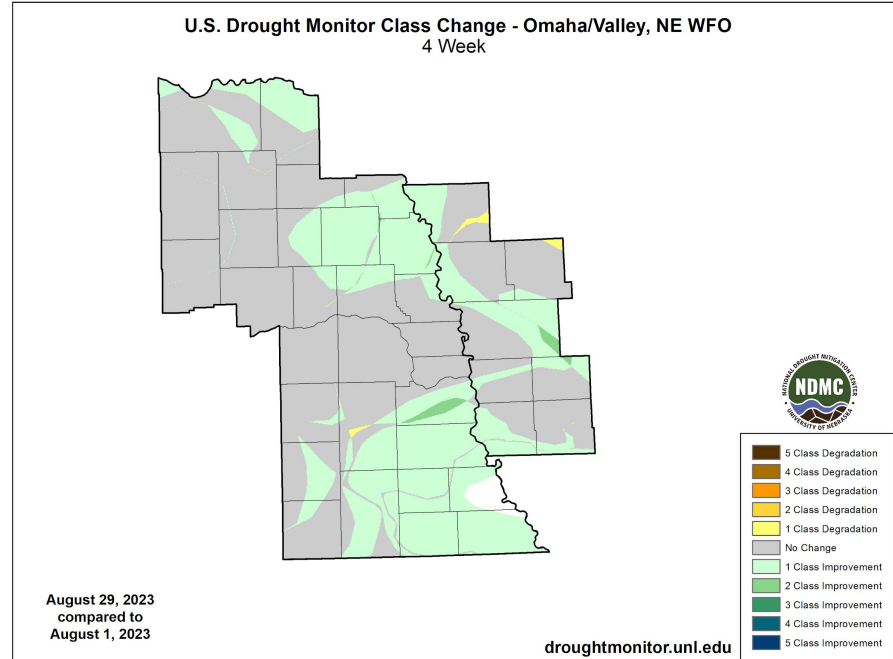


Image Caption: U.S. Drought Monitor 4-week change map valid 8am EDT August 29th.

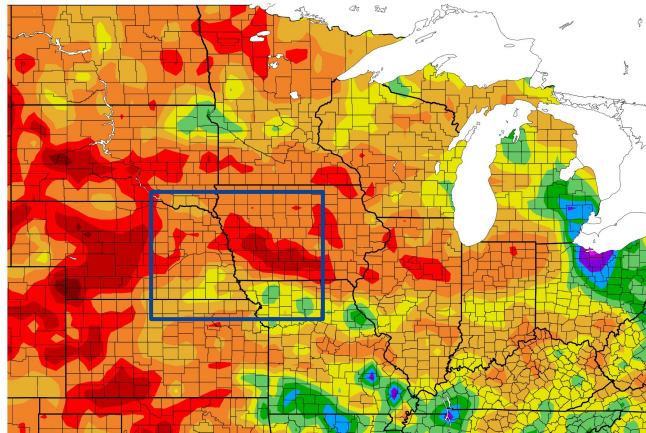




# Precipitation

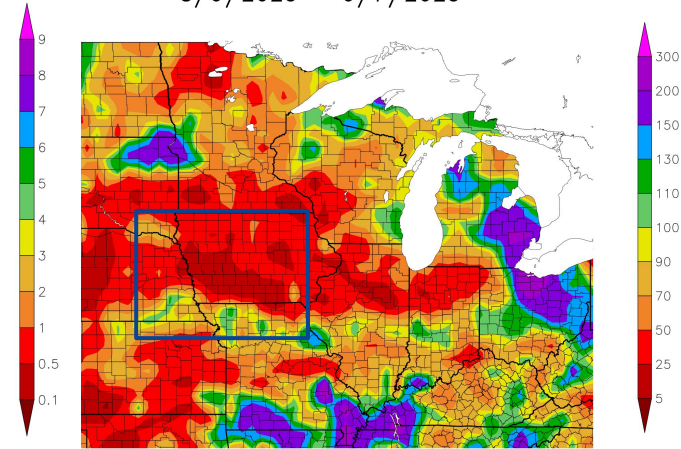
- Precipitation across the region over the previous 30 days has generally been below normal, except for a small portion in southeast Nebraska.
- Precipitation has been 25-50% of normal over a wide area.

Precipitation (in)  
8/9/2023 – 9/7/2023



Generated 9/8/2023 at HPRCC using provisional data.

Percent of Normal Precipitation (%)  
8/9/2023 – 9/7/2023



NOAA Regional Climate Centers <sup>3</sup> 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, 7, 2023

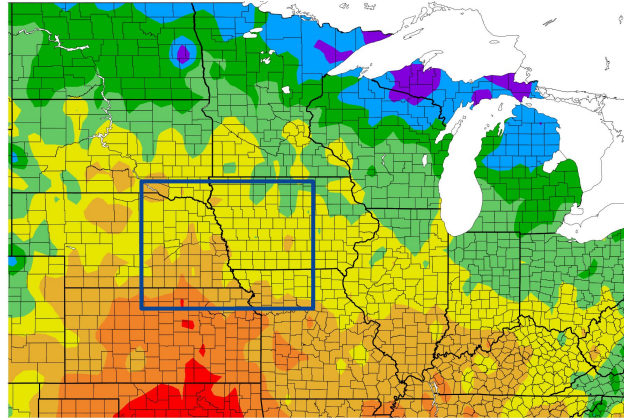




# Temperature

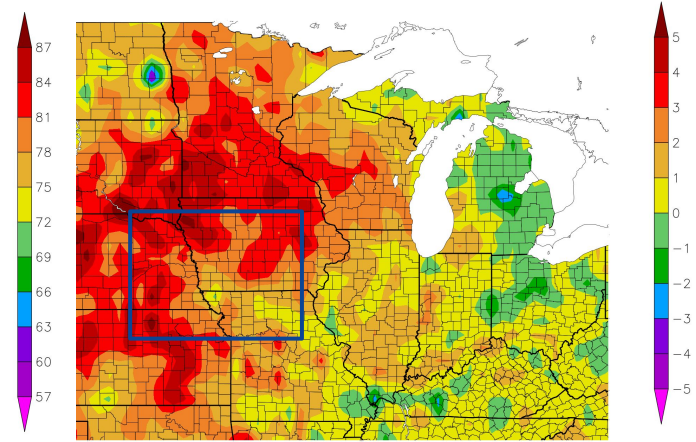
- Temperatures over the previous 30 days have been above normal, generally 2 to 4 degrees above normal over a widespread area.

Temperature (F)  
8/9/2023 – 9/7/2023



Generated 9/8/2023 at HPRCC using provisional data.

Departure from Normal Temperature (F)  
8/9/2023 – 9/7/2023



NOAA Regional Climate Centers <sup>23</sup> 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 7, 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” 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

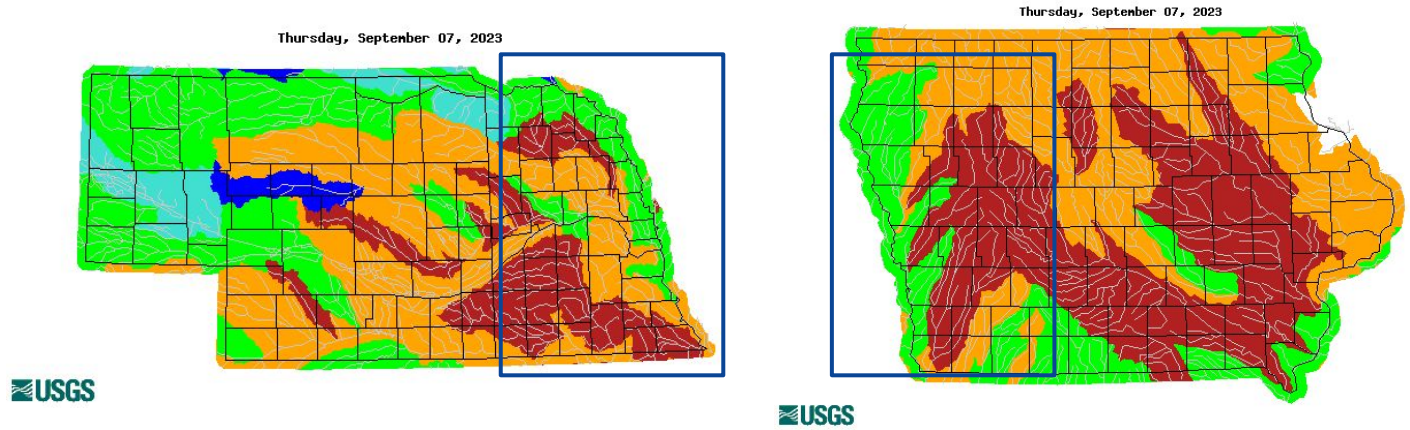
- Please refer to your municipality and/or water provider for mitigation information.





# 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 09/07/2023

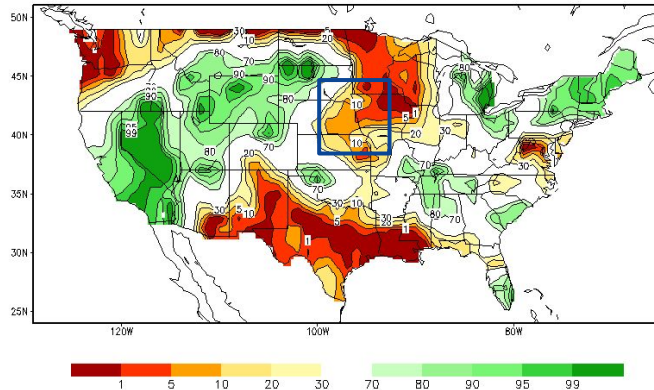




# Agricultural Impacts

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

Calculated Soil Moisture Ranking Percentile  
SEP 07, 2023



Crop Moisture Index by Division  
Weekly Value for Period Ending SEP 2, 2023  
Short Term Need vs. Available Water in a Shallow Soil Profile

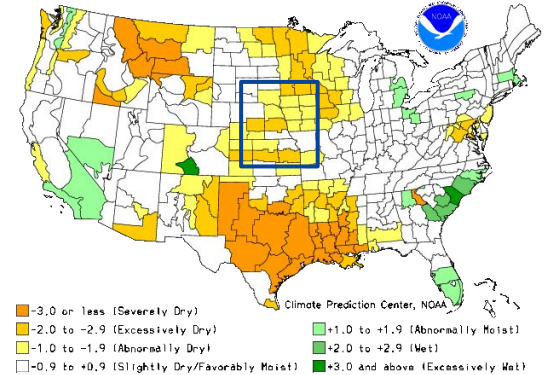


Image Captions:

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

- We do have a few chances of precipitation in the coming week, primarily from Saturday, September 9 through Tuesday, September 12. Rainfall forecasts in the in the 0.25” to 0.50” range.

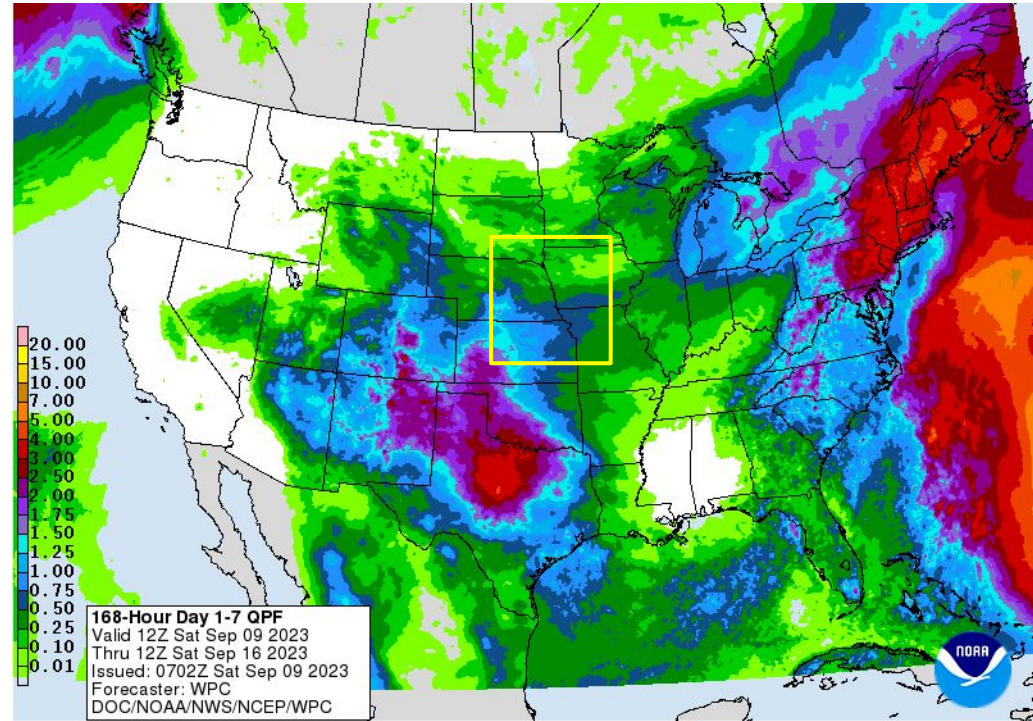


Image Caption: Weather Prediction Center [7-day precipitation forecast](#) valid Friday September 9, 2023 to Friday, September 16, 2023





# Long-Range Outlooks

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

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

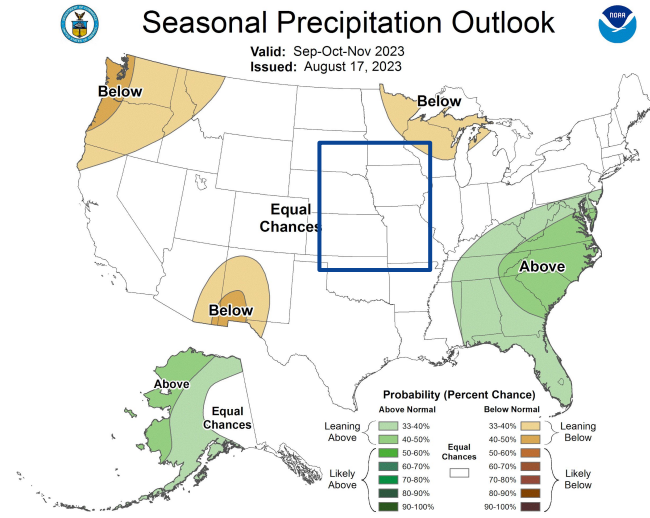
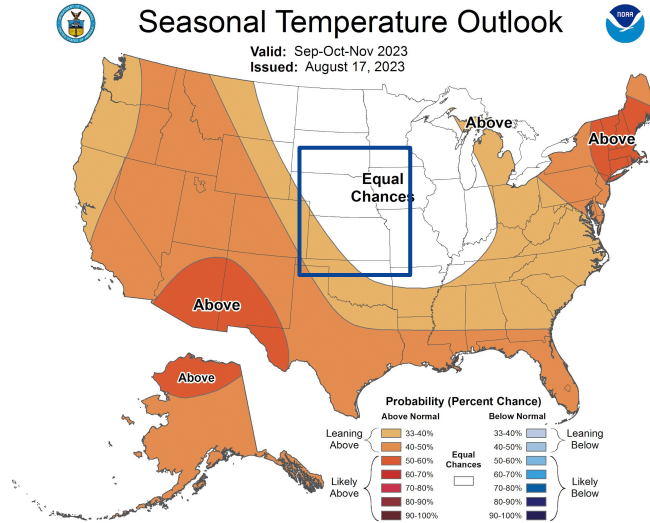


Image Captions:

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

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

Valid MM YYYY





# Drought Outlook

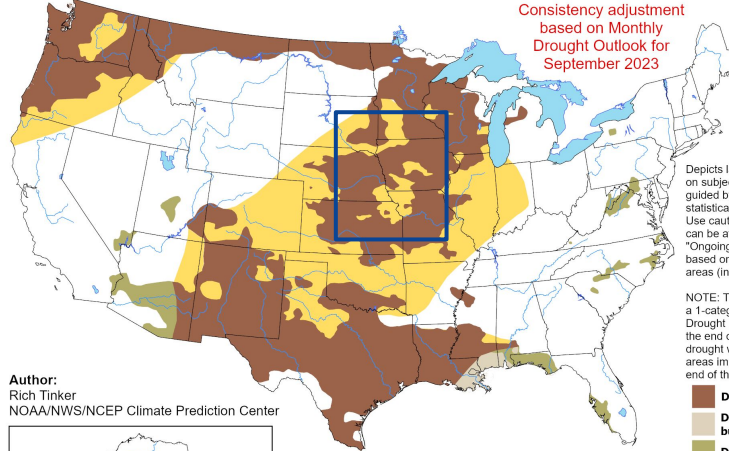
The latest monthly and seasonal outlooks can be found on the [CPC homepage](#)

- The drought outlook for September through November calls for drought to persist over the local region, with drought conditions possibly redeveloping in southeast NE and southwest IA.

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

Valid for September 1 - November 30, 2023  
Released August 31, 2023

Consistency adjustment  
based on Monthly  
Drought Outlook for  
September 2023

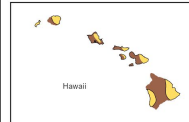


Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. \*Ongoing\* drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to D4).

NOTE: The tan areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period, although drought will remain. The green areas imply drought removal by the end of the period (D0 or none).

- Drought persists
- Drought remains, but improves
- Drought removal likely
- Drought development likely
- No drought

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<https://go.usa.gov/3eZ73>

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  
8/31/2023, valid September 1 - November 30, 2023



National Oceanic and  
Atmospheric Administration  
U.S. Department of Commerce

National Weather Service  
Omaha/Valley, NE