



# Drought Information Statement for the Quad State Region

Valid September 13, 2024

Issued By: WFO Paducah, Kentucky

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

- This product will be updated if drought conditions change significantly.
  - Please see all currently available products at <https://drought.gov/drought-information-statements>.
  - Please visit <https://www.weather.gov/pah/DroughtInformationStatement> for previous statements.
- 
- Conditions continue to deteriorate across the region with parts of southeast Missouri, southern Illinois and west Kentucky downgraded to severe drought (D2) on this week's Drought Monitor.



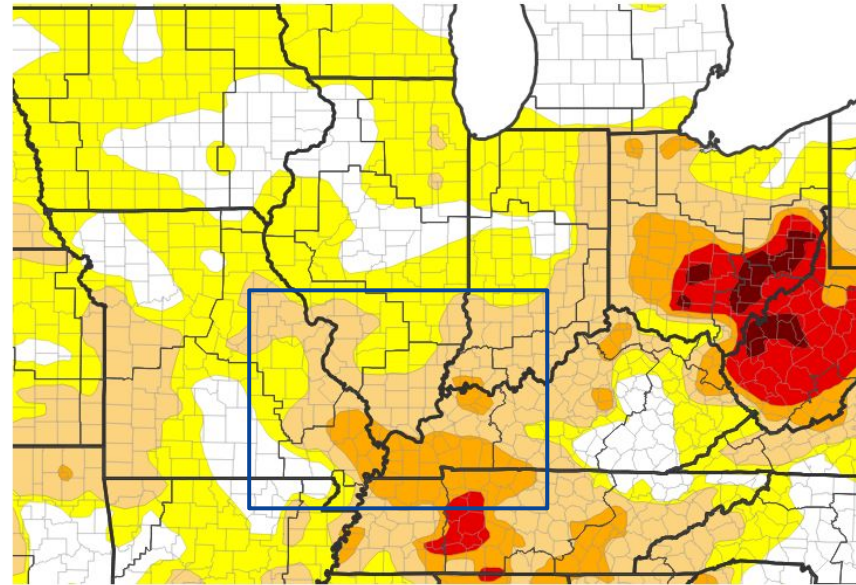


# U.S. Drought Monitor

Link to the [latest U.S. Drought Monitor](#) for southeast MO, southern IL, southwest IN, and west KY

- Severe drought has been added to part of southeast Missouri southeast into west Kentucky
- Drought intensity and Extent
  - **D2 (Severe Drought)**: Has been added to parts of southeast Missouri along the Mississippi River southwest across the tip of southern Illinois into the Purchase and southern Pennyryle Areas of west Kentucky; a second area was added to part of the Evansville/Henderson/Owensboro area of Kentucky
  - **D1 (Moderate Drought)**: Covers about 49% of the forecast area in parts of southeast Missouri, southern Illinois, southwest Indiana and west Kentucky
  - **D0: (Abnormally Dry)**: Covers much of the rest of southern Illinois and southeast Missouri

U.S. Drought Monitor



U.S. Drought Monitor



Source(s): NDMC, NOAA, USDA; image courtesy of Drought.gov

Data Valid: 09/10/24

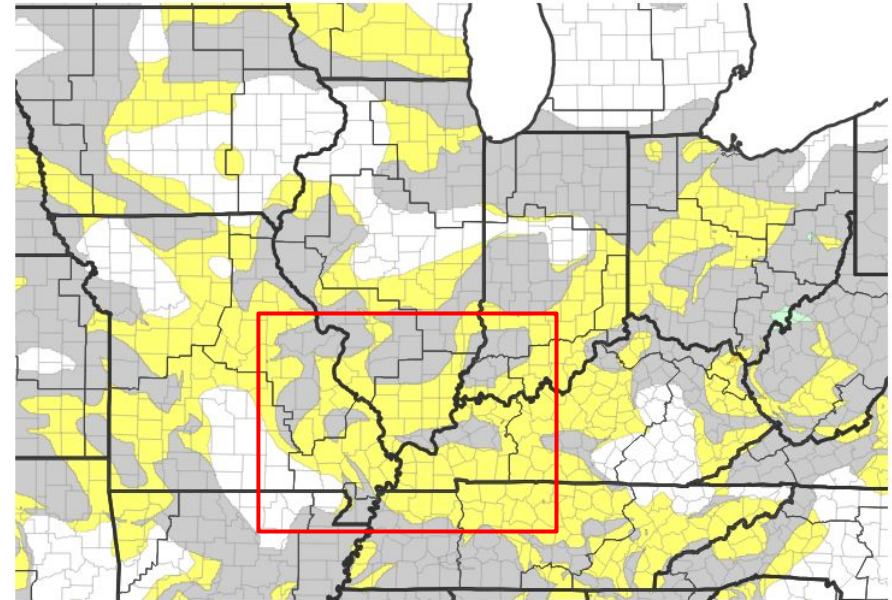




# Recent Change in Drought Intensity

Link to the latest [4-week change map](#) for southeast MO, southern IL, southwest IN, and west KY

- One Week Drought Monitor Class Change
  - Drought Improved: None
  - Drought Worsened: Much of last week's D1 drought was downgraded to D2 across southeast Missouri, southern Illinois and west Kentucky; a second area of D2 was added to the Evansville/Henderson/Owensboro area of Kentucky; a large area across southern Illinois and southwest Indiana went from D0 to D1



Drought Change Since Last Week

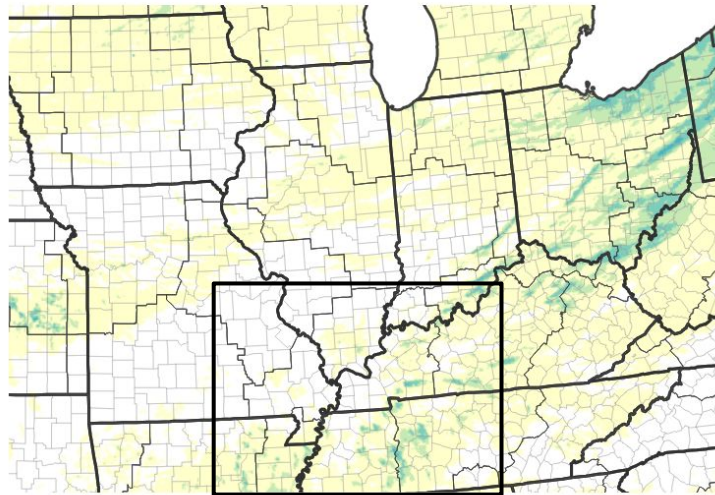




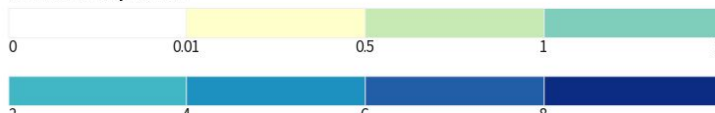
# Precipitation

- Little to no rain fell across the region during the 7 days ending at 7 am September 10.
- For the summer (June-August), only a few locations in the southern part of the region were above normal on rainfall; most of the region was 2-4 inches below.

### 7-Day Precipitation Accumulations (Inches)

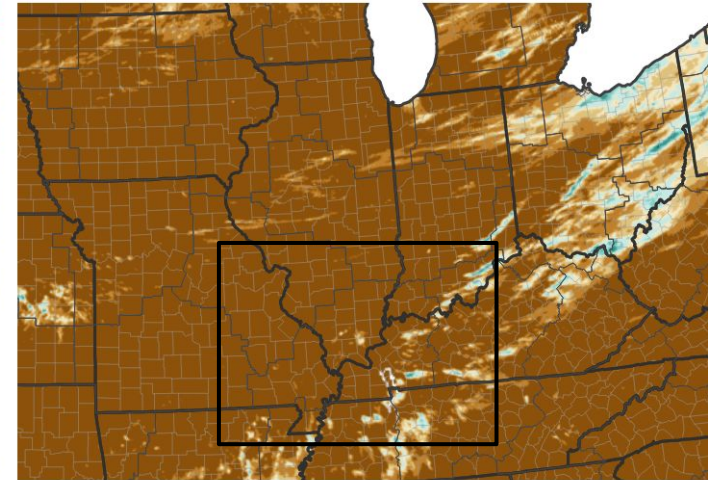


Inches of Precipitation



Source(s): National Weather Service Multi-Radar Multi-Sensor System; Last Updated: 09/12/24

### 7-Day Percent of Normal Precipitation



Percent of Normal Precipitation (%)



Source(s): National Weather Service Multi-Radar Multi-Sensor System; image courtesy of Drought.gov Last Updated: 09/12/24



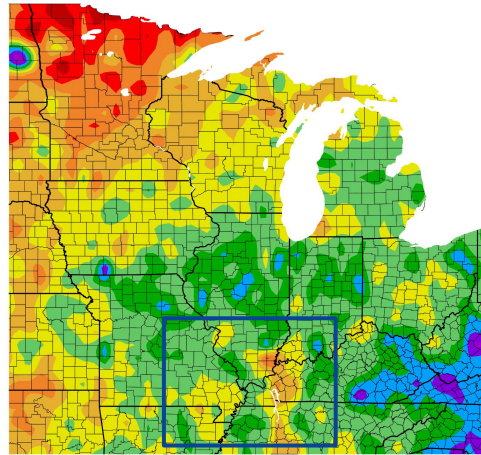


# Temperature

## Last 30 Day Average and Departure

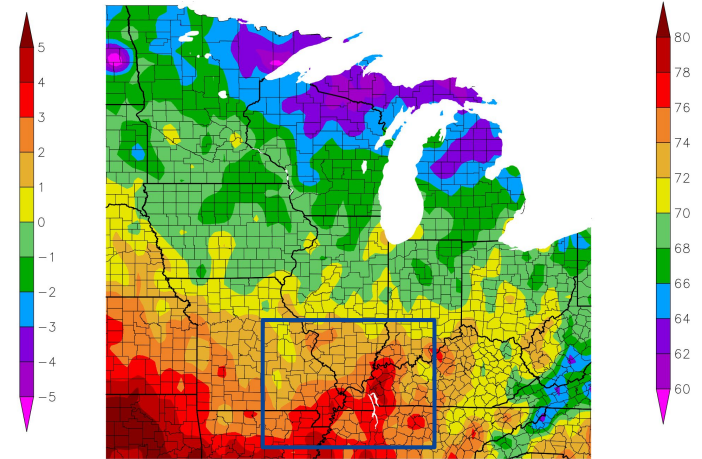
- We've had a real mix of temperatures with most locations within a degree of normal for the month of August.

Departure from Normal Temperature (F)  
8/14/2024 – 9/12/2024



Generated 9/13/2024 at HPRCC using provisional data.

Temperature (F)  
8/14/2024 – 9/12/2024



NOAA Regional Climate Centers <sup>024</sup> at HPRCC using provisional data.

NOAA Regional Climate Centers





# Summary of Impacts

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

## Hydrologic Impacts

- Rivers are running low and the navigable rivers are being closely monitored.

## Agricultural Impacts

- There are reports of hayfeeding in parts of southeast Missouri as well as a few reports of stock ponds running low. Corn and soybeans that were planted later in the season are showing the most stress.

## Fire Hazard Impacts

- There have been reports of small wildfires and burn bans are in effect for many counties in southwest Indiana and west Kentucky.

## 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

- Rivers have steadily fallen across the region since the beginning of August.

Thursday, September 12, 2024

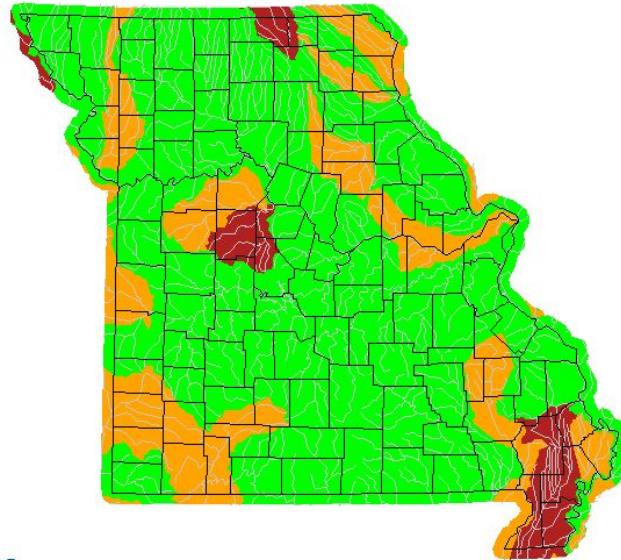
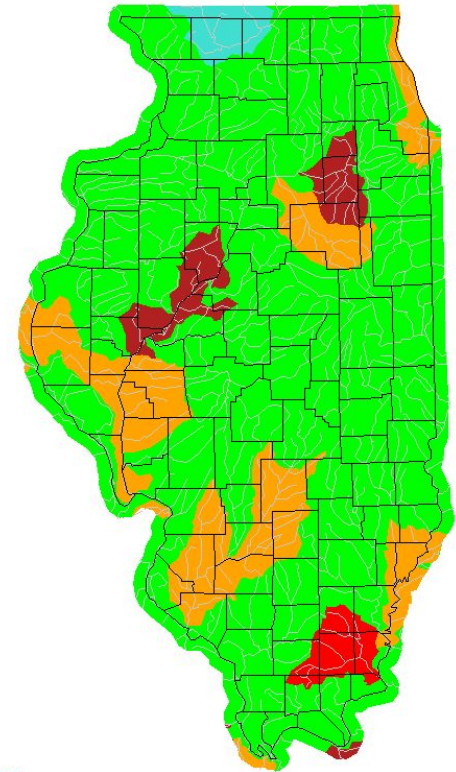


Image Caption: USGS 7 day average streamflow HUC map

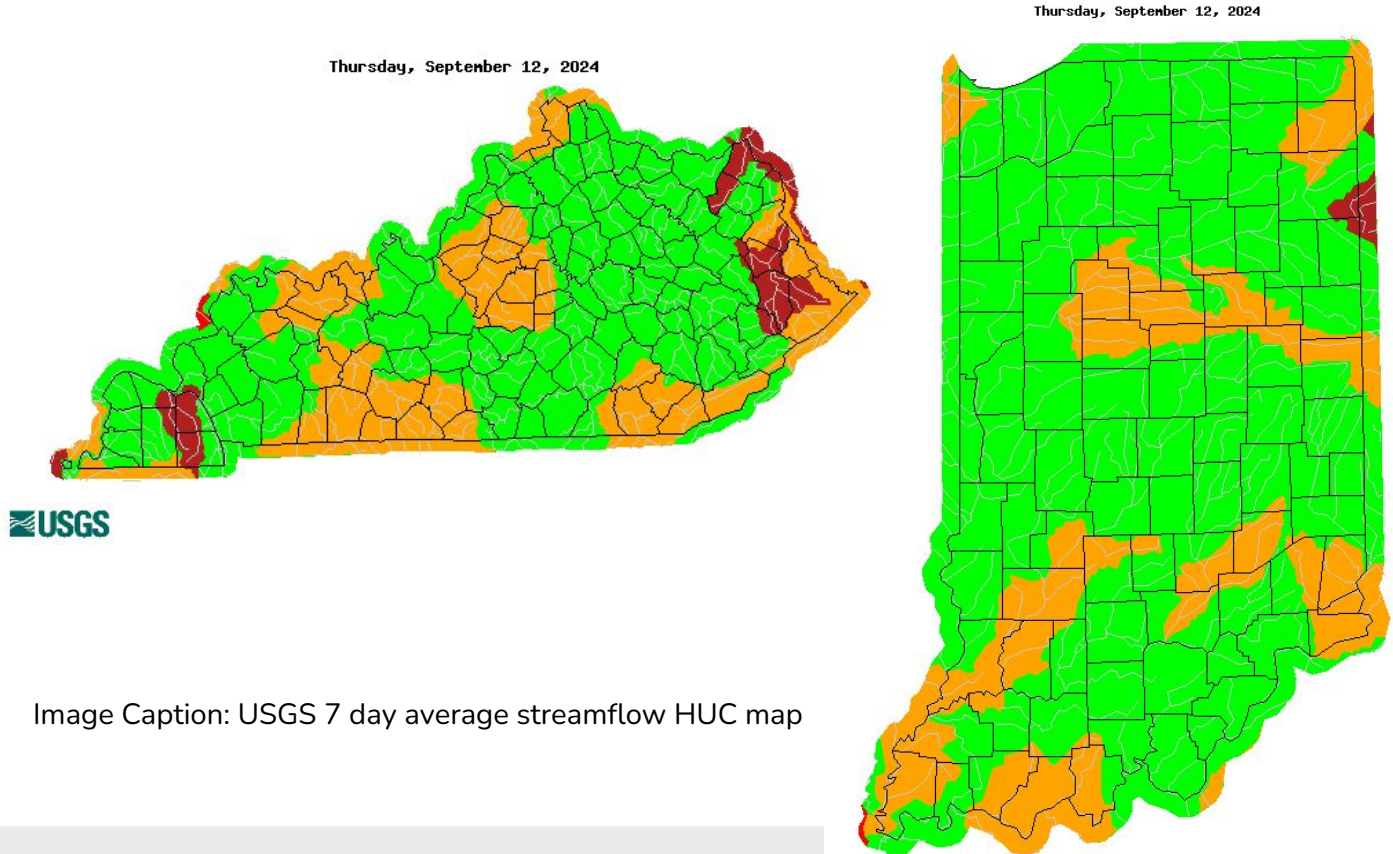
Thursday, September 12, 2024





# Hydrologic Conditions and Impacts

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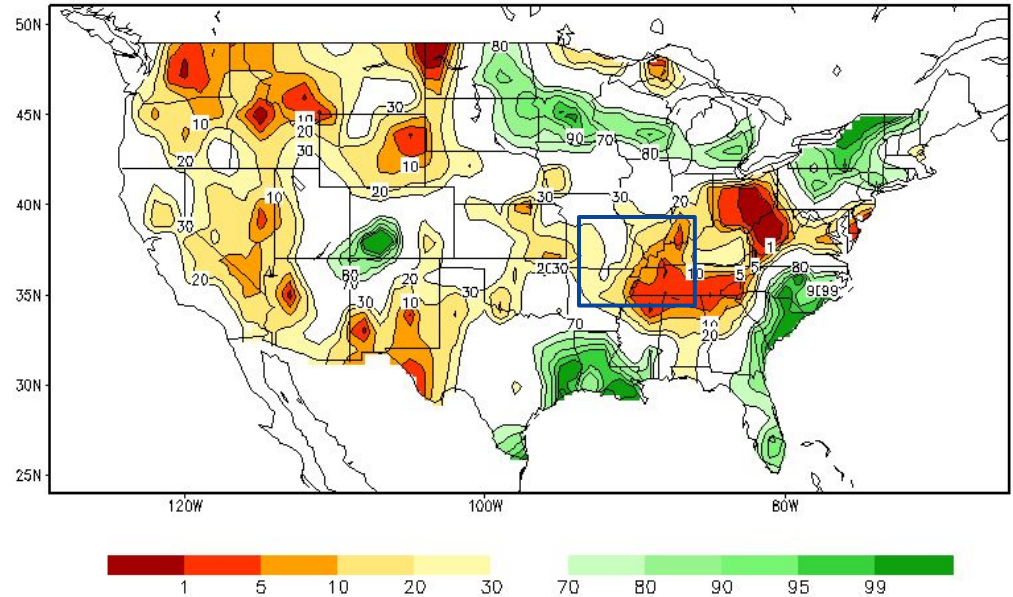




# Agricultural Impacts

- Soil moisture, has deteriorated for a large part of the Ohio and middle Mississippi Valleys.

Calculated Soil Moisture Ranking Percentile  
SEP 12, 2024

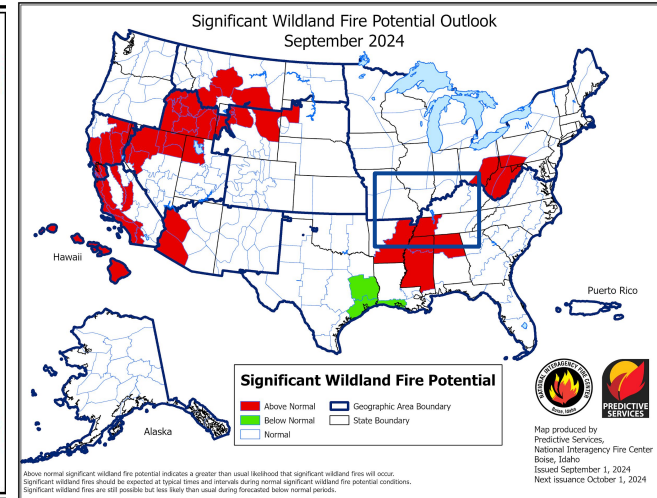
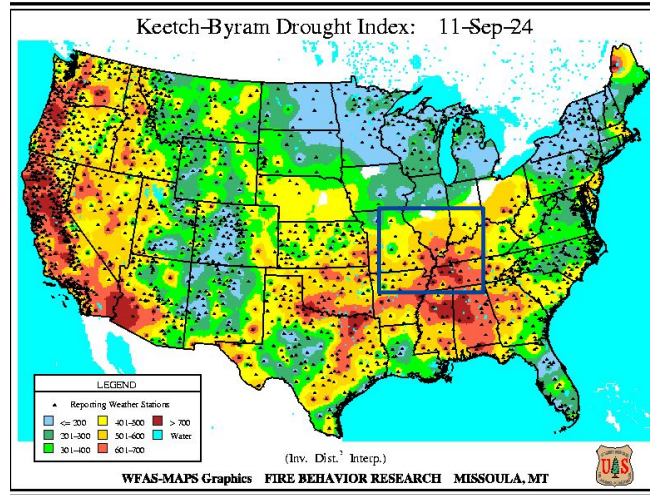




# Fire Hazard Impacts

Link to [Wildfire Potential Outlooks from the National Interagency Coordination Center.](#)

- There have been numerous reports of wildfires leading into this week with many counties enacting burn bans in southwest Indiana and west Kentucky.



- [Significant Wildland Fire Potential Outlook Month 2](#)
- [Significant Wildland Fire Potential Outlook Month 3](#)
- [Significant Wildland Fire Potential Outlook Month 4](#)

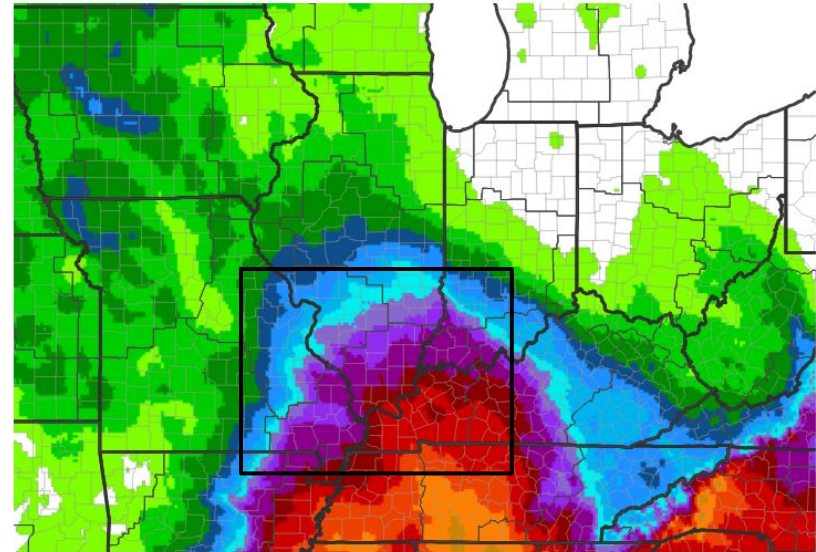




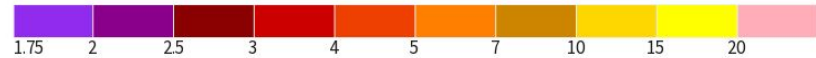
# Seven Day Precipitation Forecast

- The remnants of Hurricane Francine moved north into the region. Two rain bands produced 1-2 inches of rain overnight in parts of southeast Missouri and west Kentucky and across southeast Illinois into southwest Indiana and northwest Kentucky.
- The tropical remnants will linger across the region through much of the weekend producing scattered showers and thunderstorms.
- Another 1 to 2 inches is possible through Monday.

7-Day Quantitative Precipitation Forecast for September 12, 2024–September 19, 2024



Predicted Inches of Precipitation



Source(s): National Weather Service Weather Prediction Center; image courtesy of Drought.gov

Last Updated: 09/12/24





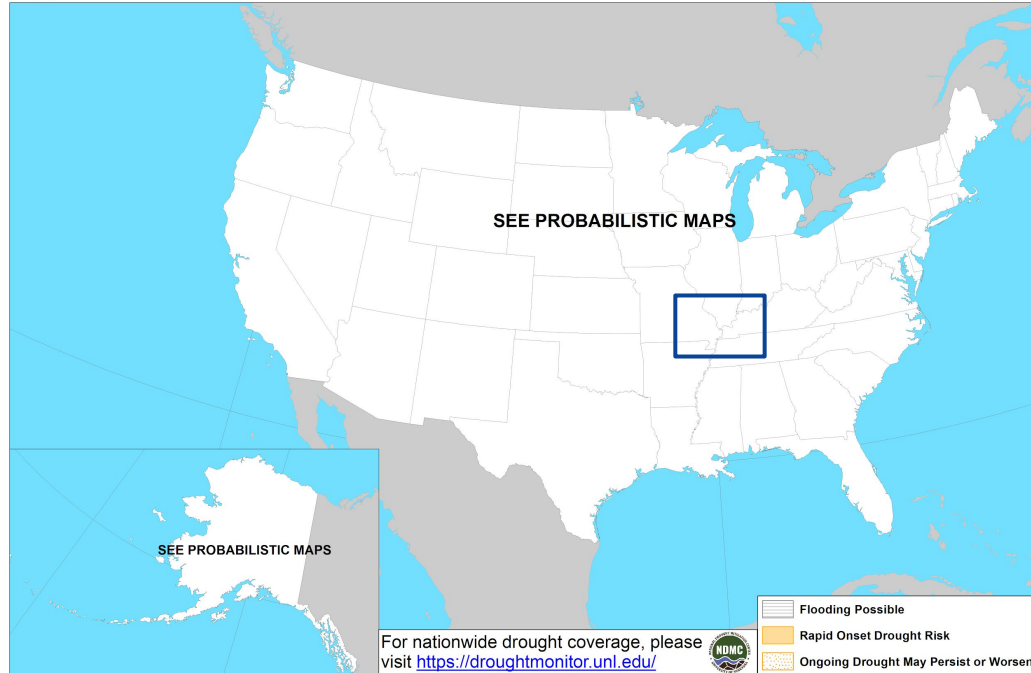
# Rapid Onset Drought Outlook

Links to the latest Climate Prediction Center 8 to 14 day [Temperature Outlook](#) and [Precipitation Outlook](#).

- Rapid Onset Drought is not expected to continue but may return once the tropical remnants dissipate early next week.



Day 8-14 U.S. Hazards Outlook  
Valid: 09/20/2024-09/26/2024



Climate Prediction Center  
Made: 09/12/2024 3PM EDT

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

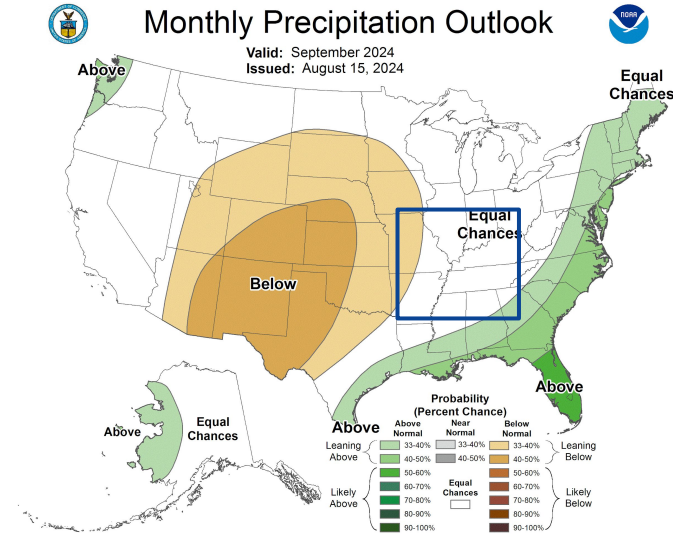
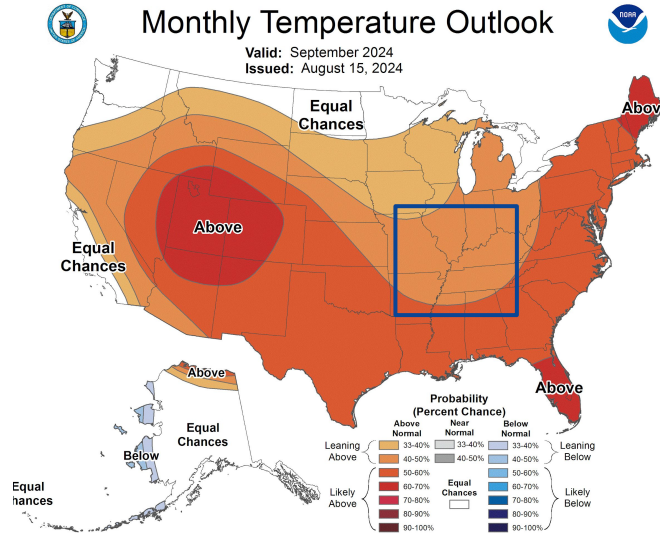




# Long-Range Outlooks

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

- The warmer than normal pattern will continue through the rest of September.
- Precipitation chances will return to more normal through the rest of the month.



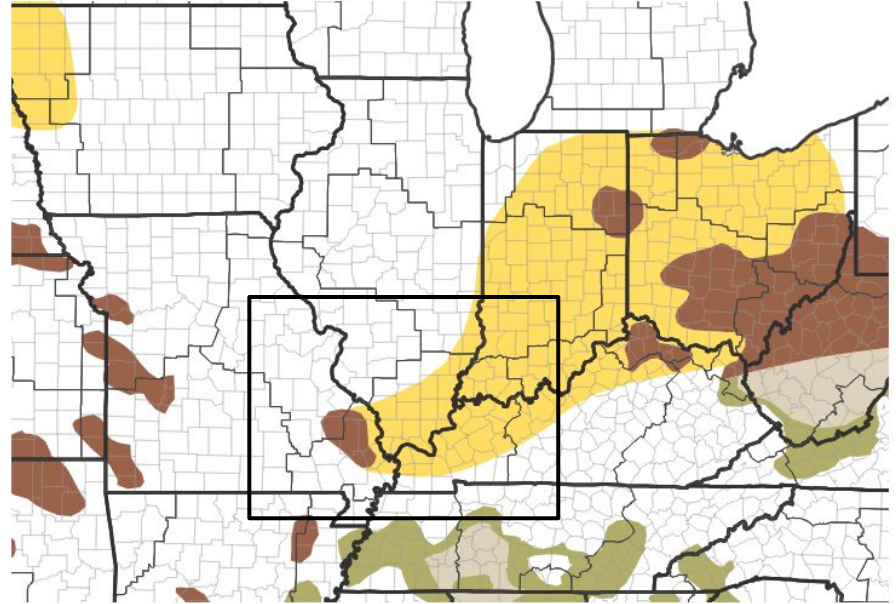


# Drought Outlook

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

- Drought may worsen once again the coming weeks.

## 1-Month Drought Outlook for September 1, 2024–September 30, 2024



### Drought Is Predicted To...



Source(s): Climate Prediction Center; image courtesy of Drought.gov

Last Updated: 08/31/24

Links to the latest:

[Climate Prediction Center Monthly Drought Outlook](#)

[Climate Prediction Center Seasonal Drought Outlook](#)

