



# Drought Information Statement for the Quad State Region

Valid September 26, 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.
- 
- The remnants of Hurricane Helene will come barreling north into the Ohio Valley tonight and Friday. Very heavy rainfall is possible through the first part of the weekend. By Sunday, rain should be waning and moving back off to the east.



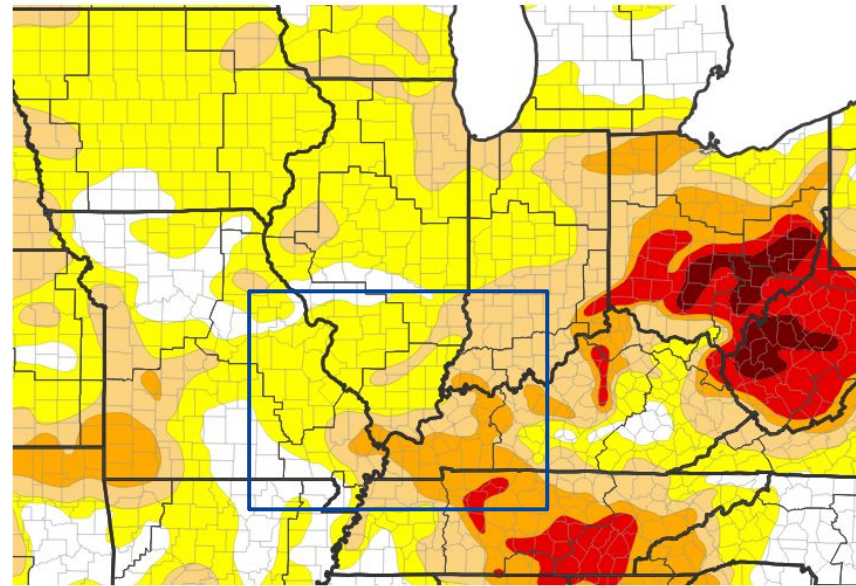


# U.S. Drought Monitor

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

- Small improvement were made across the region
- Drought intensity and Extent
  - **D2 (Severe Drought)**: The two areas of D2 saw small areas of improvement both in southeast Missouri and the Henderson area of west Kentucky. D2 covers approximately 30% of the service area.
  - **D1 (Moderate Drought)**: Large parts of southern Illinois saw improvement bringing the coverage area down to around 38%
  - **D0: (Abnormally Dry)**: Still covers much of southern Illinois and the rest of southeast Missouri

U.S. Drought Monitor



U.S. Drought Monitor



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

Data Valid: 09/24/24

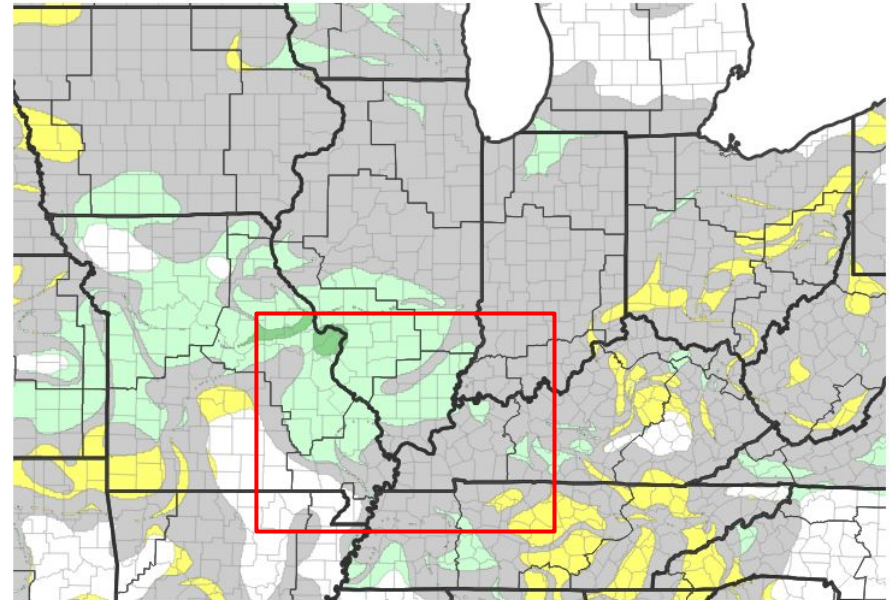




# Recent Change in Drought Intensity

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: rainfall helped to improve drought conditions across parts of southeast Missouri and southern Illinois and a small area of west Kentucky
  - Drought Worsened: none



Drought Change Since Last Week

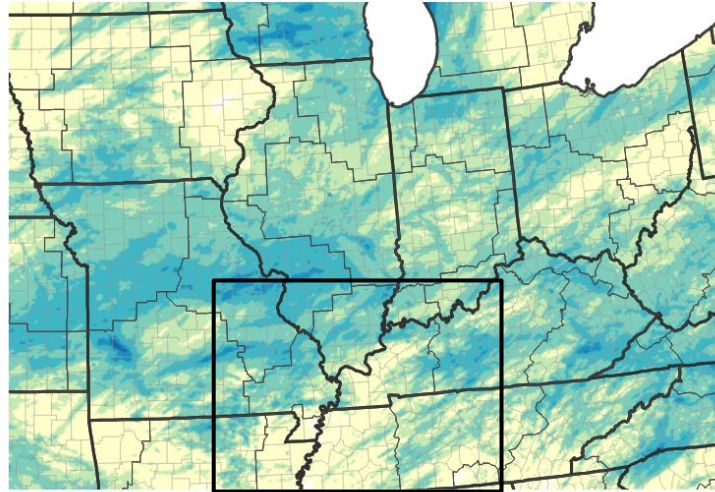




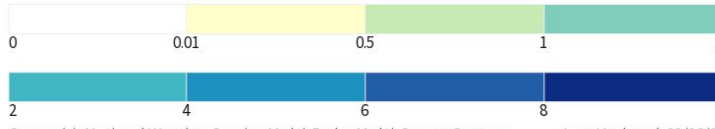
# Precipitation

- A nearly stationary boundary produced showers and thunderstorms that helped most areas except much of west Kentucky.
- Many locations have seen below normal rainfall especially across west Kentucky.

### 7-Day Precipitation Accumulations (Inches)

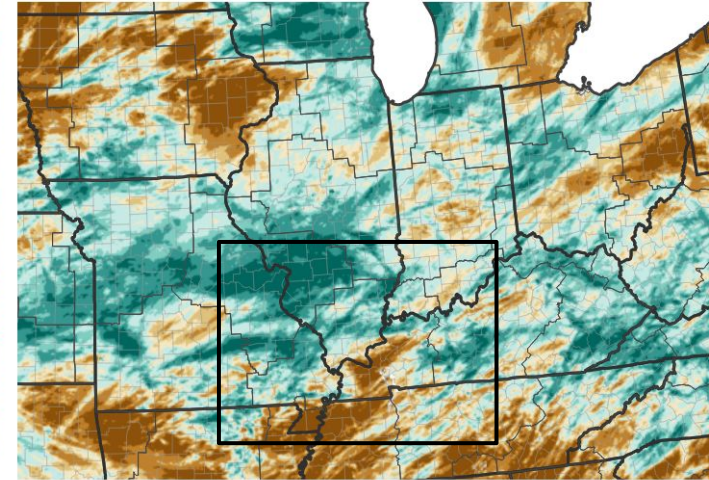


Inches of Precipitation

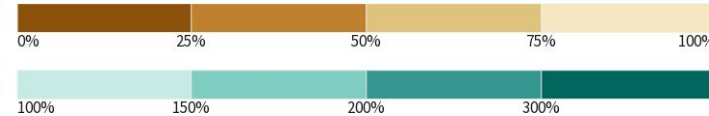


Source(s): National Weather Service Multi-Radar Multi-Sensor System; Last Updated: 09/26/24

### 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: 09/26/24



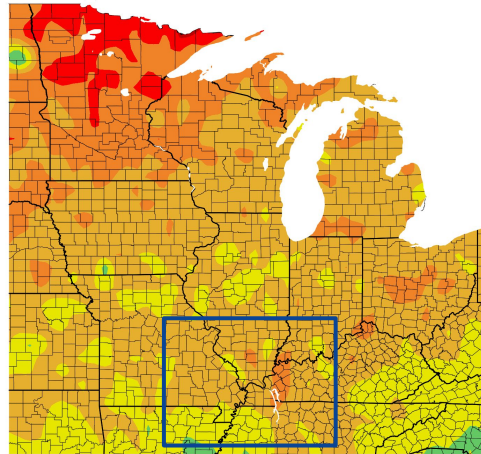


# Temperature

Last 30 Day Average and Departure

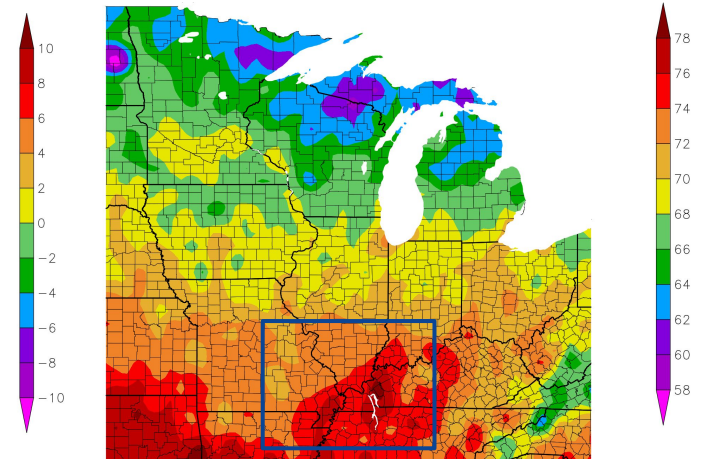
- Temperatures were much warmer this past week with daily averages 2 to 6 degrees above normal.

Departure from Normal Temperature (F)  
8/27/2024 – 9/25/2024



Generated 9/26/2024 at HPRCC using provisional data.

Temperature (F)  
8/27/2024 – 9/25/2024



NOAA Regional Climate Centers <sup>324</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 or enacted restrictions; there are concerns with harvesting crops getting under way.

## Agricultural Impacts

- There are reports of hayfeeding in parts of southeast Missouri.. 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 in the last week although burn bans have been lifted across southwest Indiana and many counties in 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 recuperated slightly where rain fell this past week. Many rivers are still running below normal.

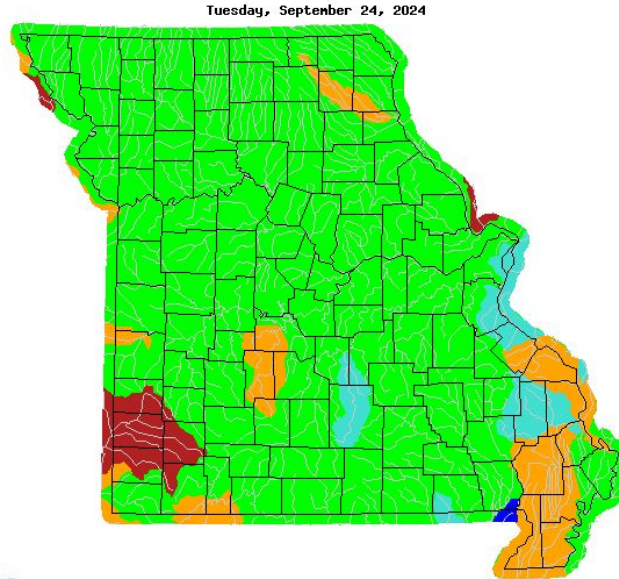
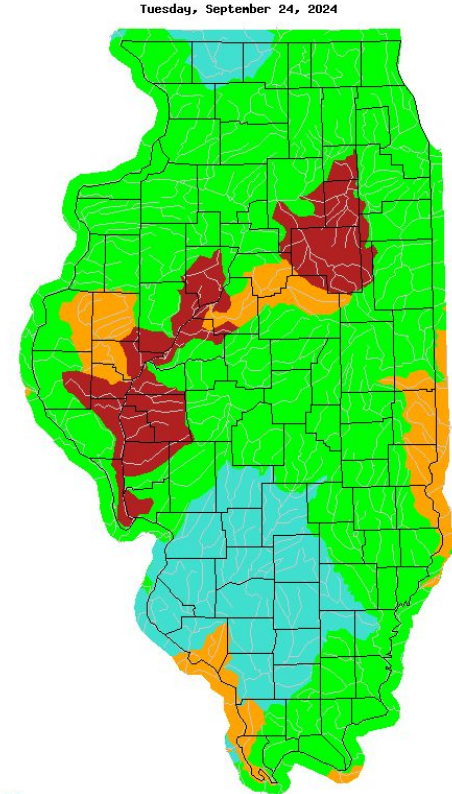


Image Caption: USGS 7 day average streamflow HUC map





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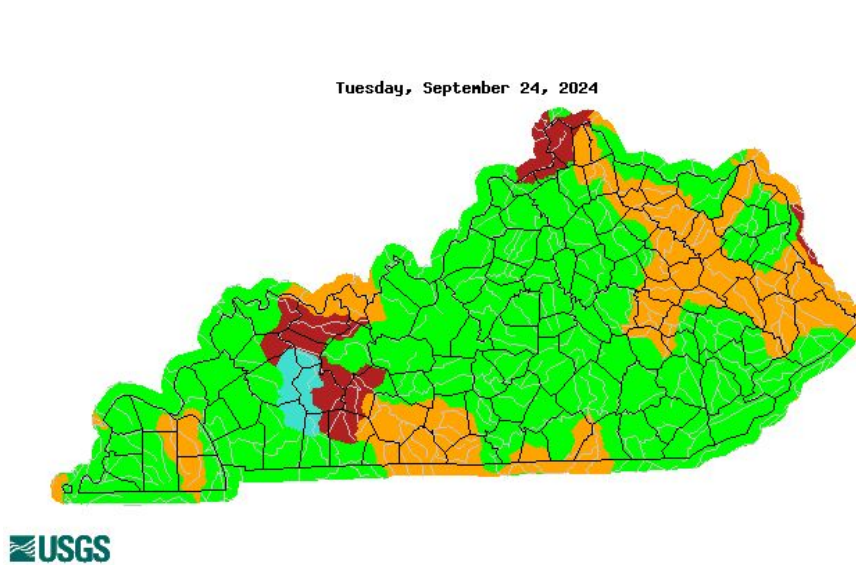
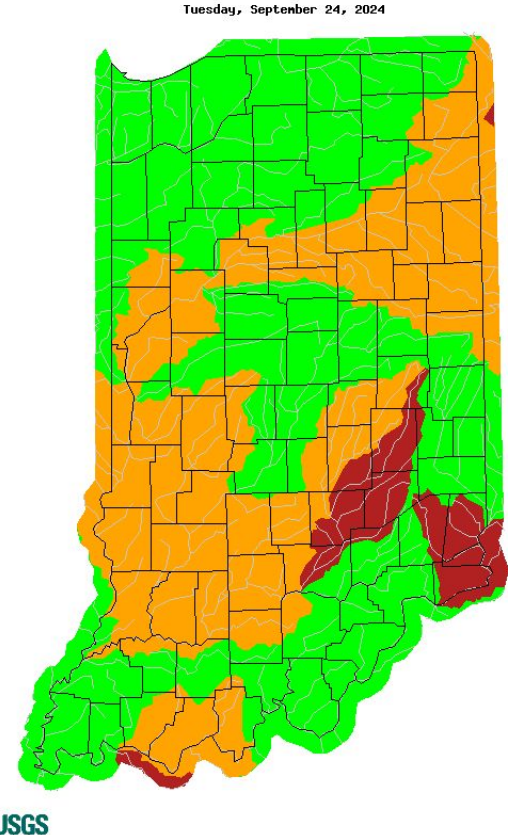


Image Caption: USGS 7 day average streamflow HUC map



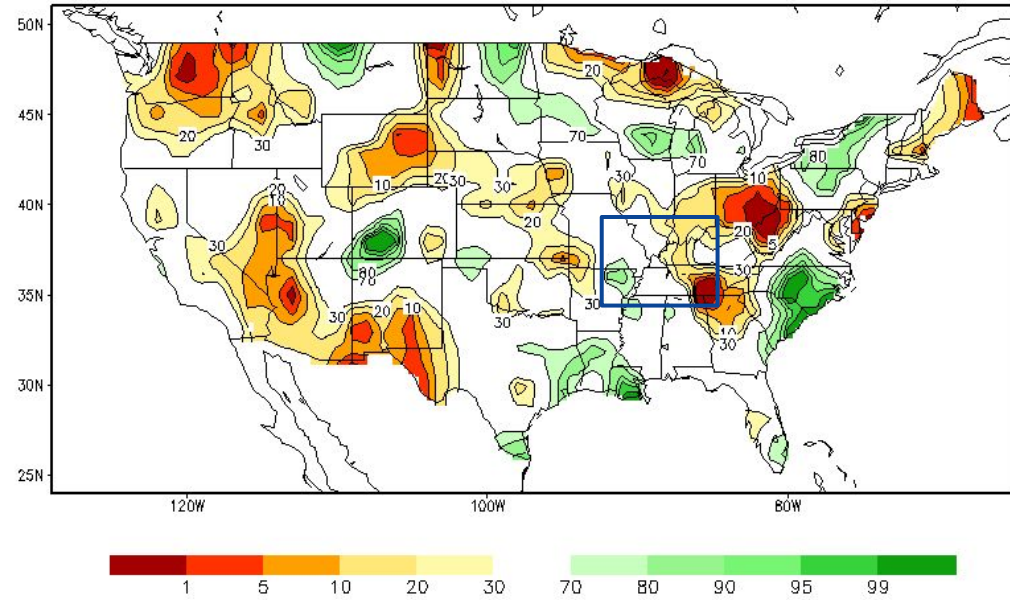




# Agricultural Impacts

- Soil moisture has improved in much of the middle Mississippi Valley but remain below normal in the lower Wabash and Ohio Valleys.

Calculated Soil Moisture Ranking Percentile  
SEP 25, 2024

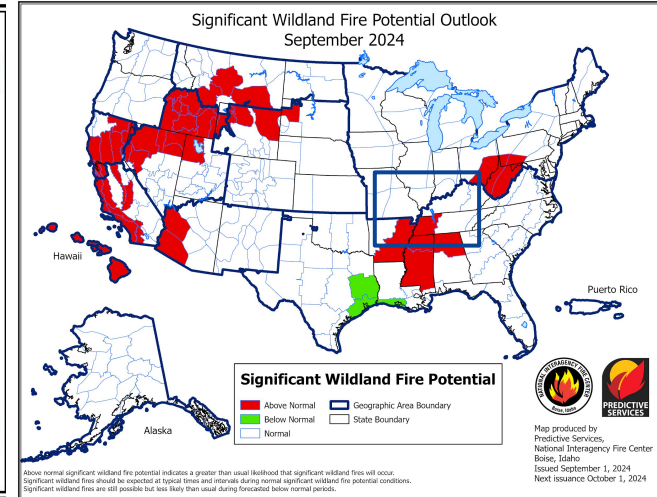
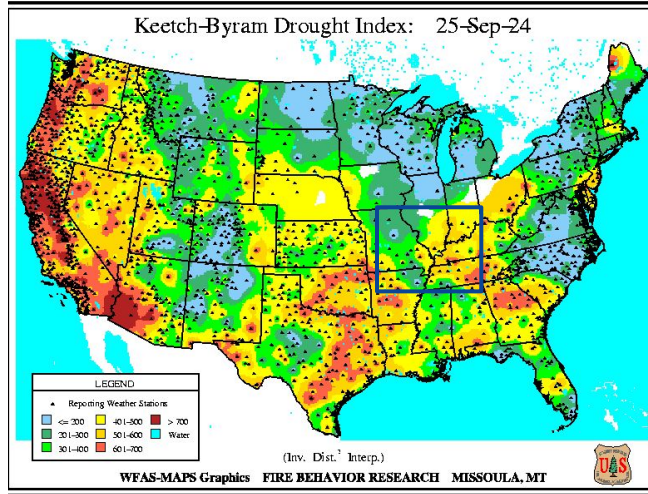




# Fire Hazard Impacts

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

- While there have been reports of small wildfires this past week, many burn bans have been lifted across 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](#)

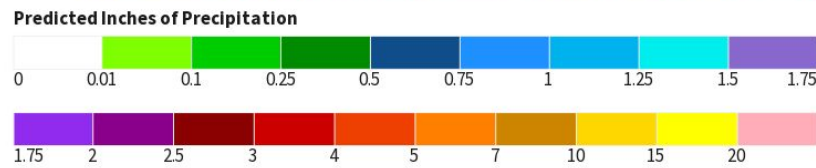
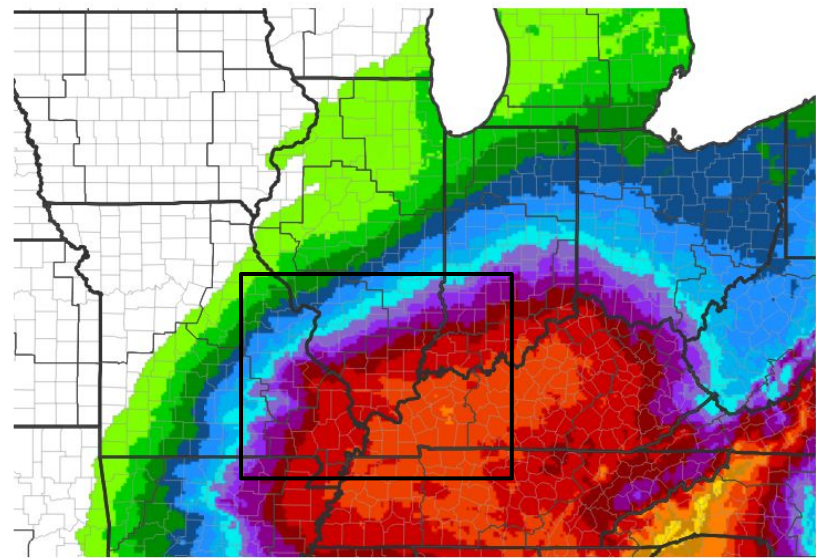




# Seven Day Precipitation Forecast

- The remnants of Hurricane Helene will come barreling up the Appalachians and turn west into the Ohio Valley. 2-3 inches of rain can be expected along the foothills of the Ozarks northeast to I-64 then east into southwest Indiana. 3-5" of rain can be expected through the weekend across the rest of the area and isolated higher amounts are not out of the question.
- The remnant area of low pressure will pull out east late Sunday into Monday bringing an end to the rain.

7-Day Quantitative Precipitation Forecast for September 26, 2024–October 3, 2024



Source(s): National Weather Service Weather Prediction Center; image courtesy of Drought.gov Last Updated: 09/26/24



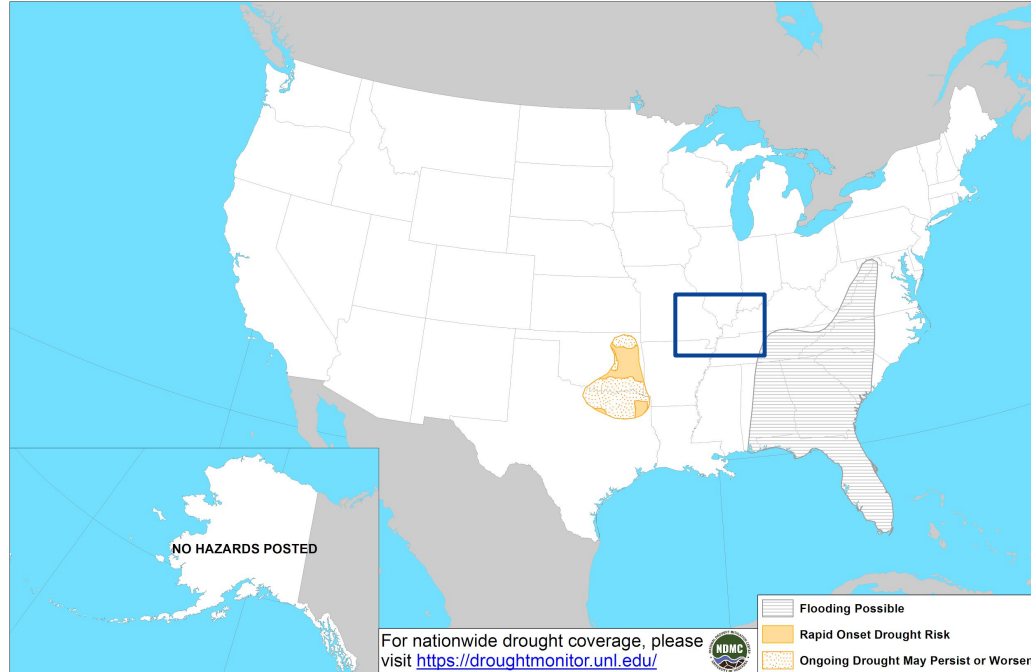
# Rapid Onset Drought Outlook

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

- Rapid Onset Drought is not expected to continue for now.



Day 8-14 U.S. Hazards Outlook  
Valid: 10/03/2024-10/09/2024



Climate Prediction Center  
Made: 09/25/2024 3PM EDT



Flooding Possible  
 Rapid Onset Drought Risk  
 Ongoing Drought May Persist or Worsen

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

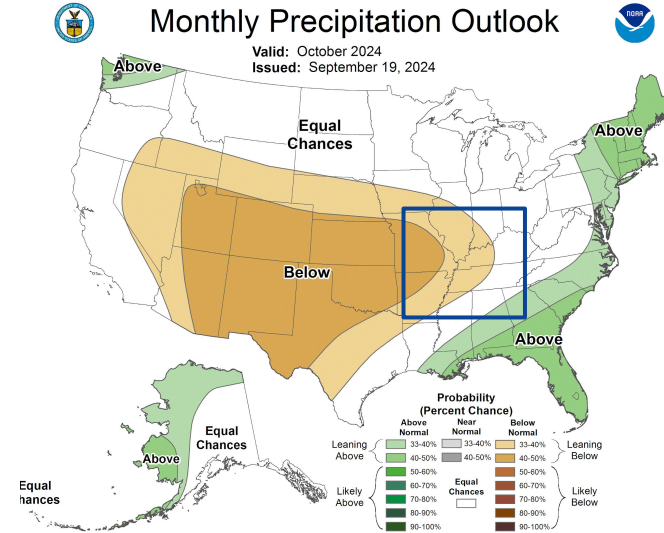
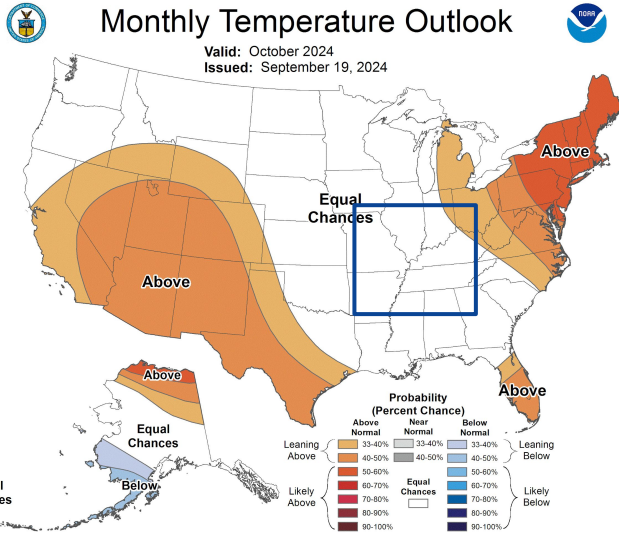




# Long-Range Outlooks

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

- More normal temperatures can be expected into October.
- Precipitation chances will be below normal for the month.
- The latest 8 to 14 day outlooks call for above normal temperatures and below normal precipitation as do the Weeks 3 and 4 outlooks.



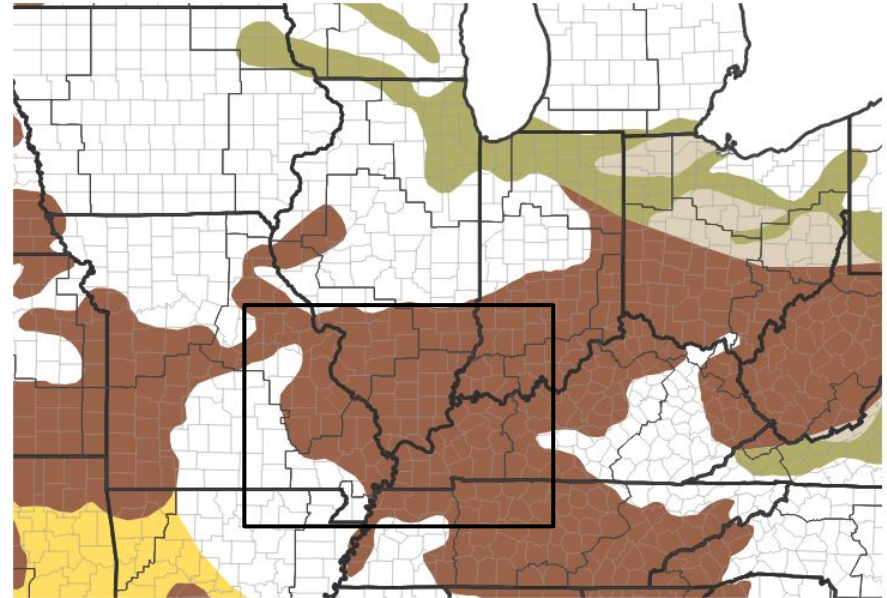


# Drought Outlook

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

- High pressure is expected to take control through the first part of October and drought may worsen once again the coming weeks.

## Seasonal (3-Month) Drought Outlook for September 19, 2024–December 31, 2024



Drought Is Predicted To...



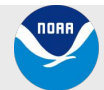
Source(s): Climate Prediction Center; image courtesy of Drought.gov

Last Updated: 09/19/24

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  
Paducah, KY