



# Drought Information Statement for the Quad State Region

Valid September 19, 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 Francine underperformed over the region leaving many areas to either hold steady or have their drought designation continue to deteriorate.



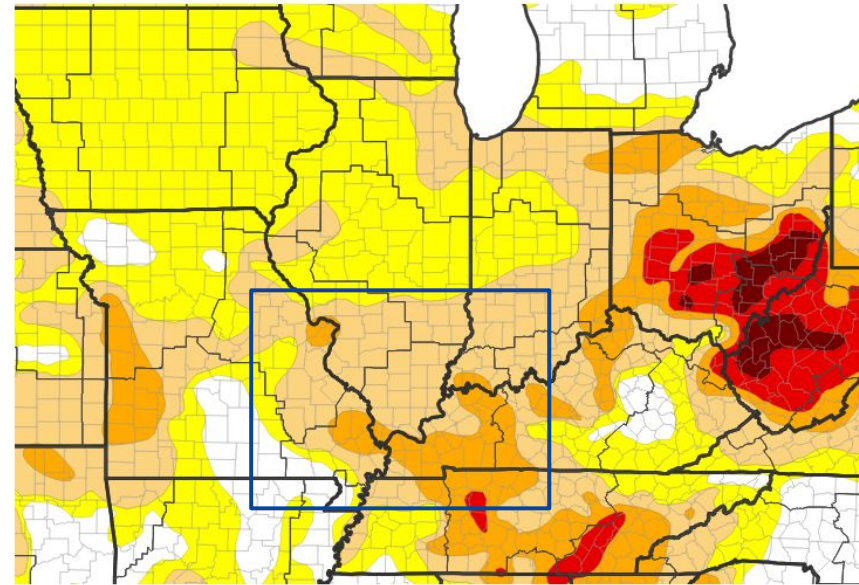


# U.S. Drought Monitor

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

- Severe drought has been expanded across west Kentucky east of the Land Between the Lakes
- Drought intensity and Extent
  - **D2 (Severe Drought)**: The two area of D2 were connected across west Kentucky this week putting just over 36% of our region in severe drought
  - **D1 (Moderate Drought)**: Covers about 55% 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 southeast Missouri

U.S. Drought Monitor



U.S. Drought Monitor



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

Data Valid: 09/17/24

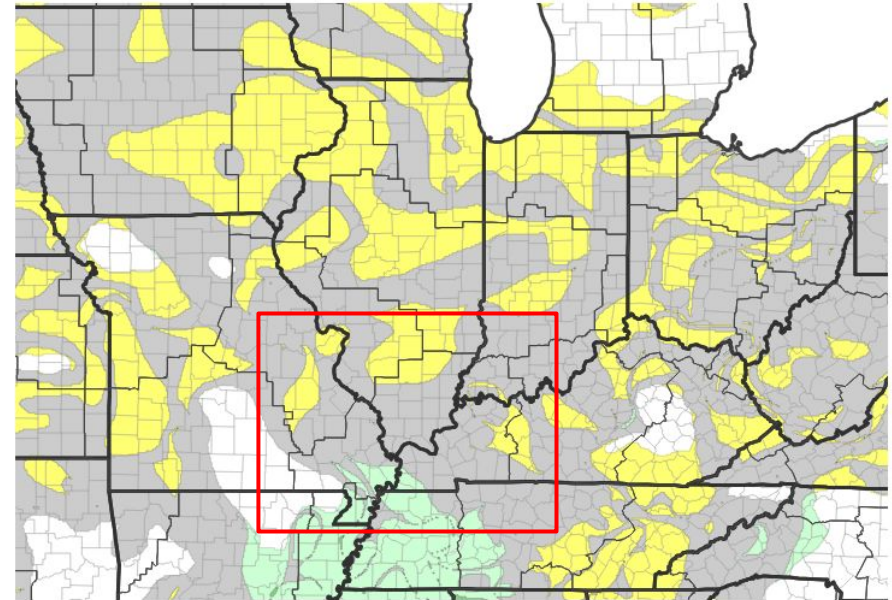




# Recent Change in Drought Intensity

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: A small sliver of Missouri and Kentucky benefited from rainfall last week. This area covers the Hickman/Fulton Counties area in west Kentucky across the Mississippi River into Mississippi and New Madrid Counties in Missouri
  - Drought Worsened: Much of last week's D1 drought was downgraded to D2 across west Kentucky; small areas of D1 drought in west Kentucky were upgraded to D2 and part of southern Illinois was upgraded from D0 to D1



Drought Change Since Last Week



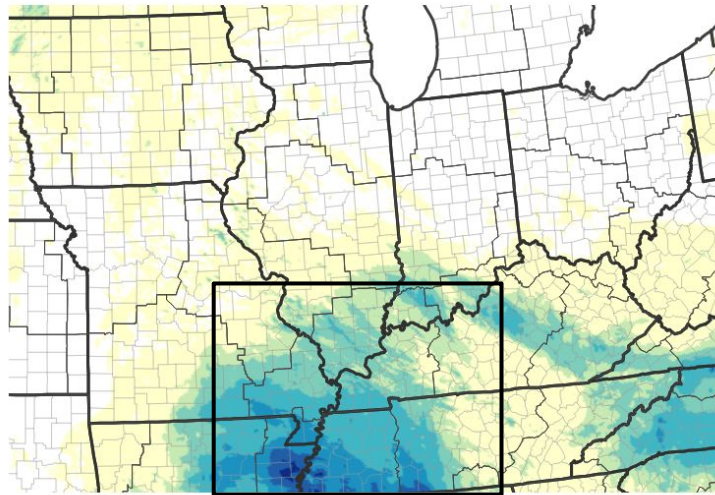




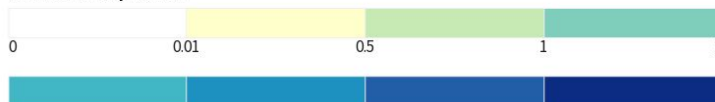
# Precipitation

- While many areas received rainfall from the remnants of Francine, very little saw amounts that helped improve drought conditions.
- Many locations have seen below normal rainfall since the beginning of August.

### 7-Day Precipitation Accumulations (Inches)

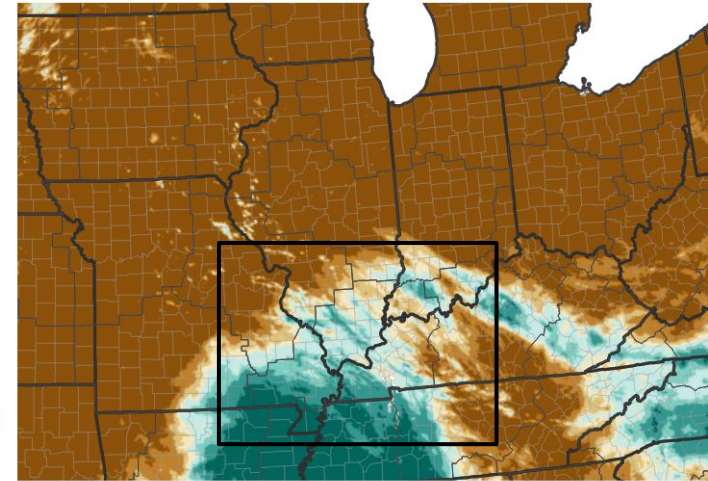


Inches of Precipitation

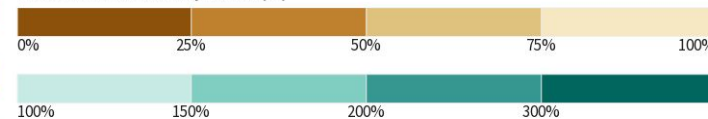


Source(s): National Weather Service Multi-Radar Multi-Sensor System; Last Updated: 09/19/24

### 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: 09/19/24



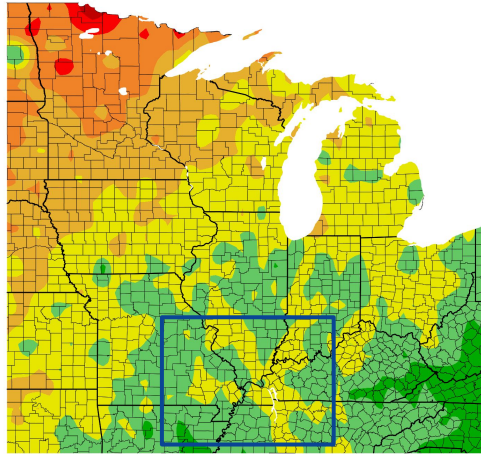


# Temperature

## Last 30 Day Average and Departure

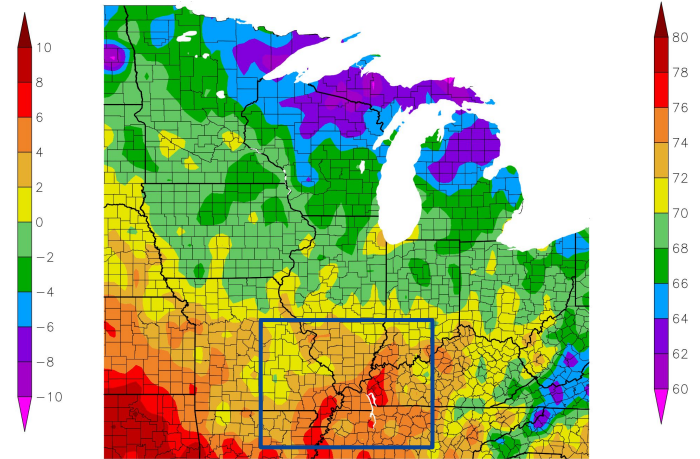
- We've had a real mix of temperatures with most locations within a degree of normal since mid-August.

Departure from Normal Temperature (F)  
8/19/2024 - 9/17/2024



Generated 9/18/2024 at HPRCC using provisional data.

Temperature (F)  
8/19/2024 - 9/17/2024



NOAA Regional Climate Centers <sup>3024</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 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; a few smaller rivers saw a small bump of water this past week.

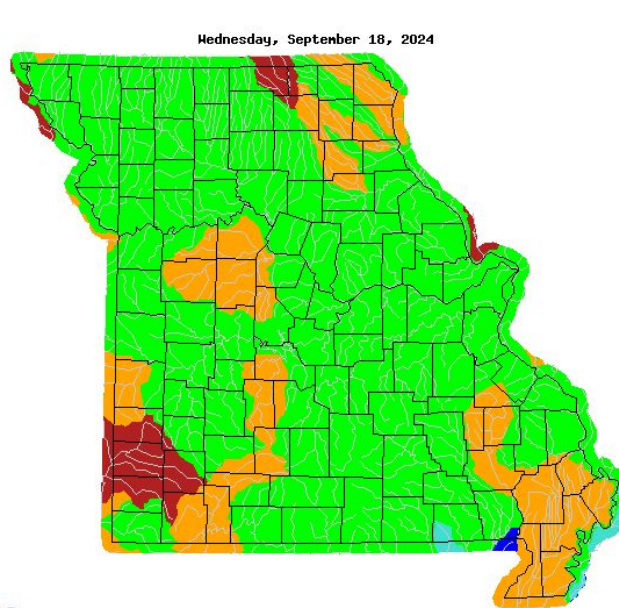
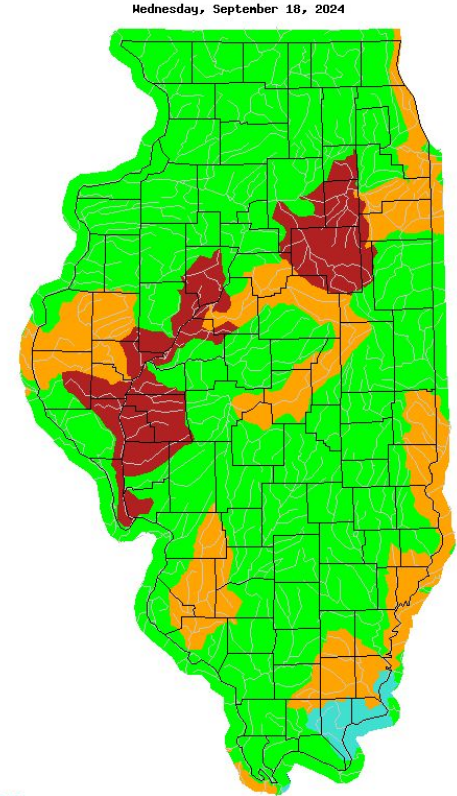


Image Caption: USGS 7 day average streamflow HUC map







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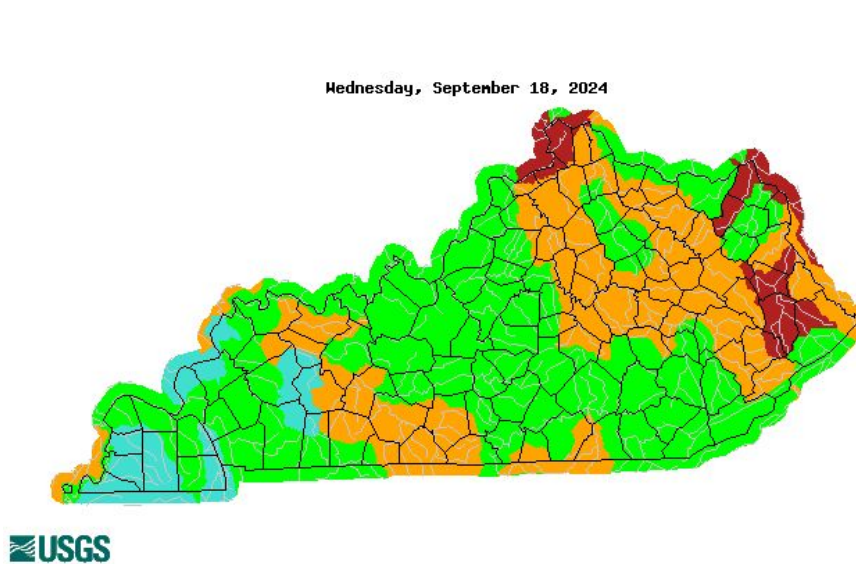
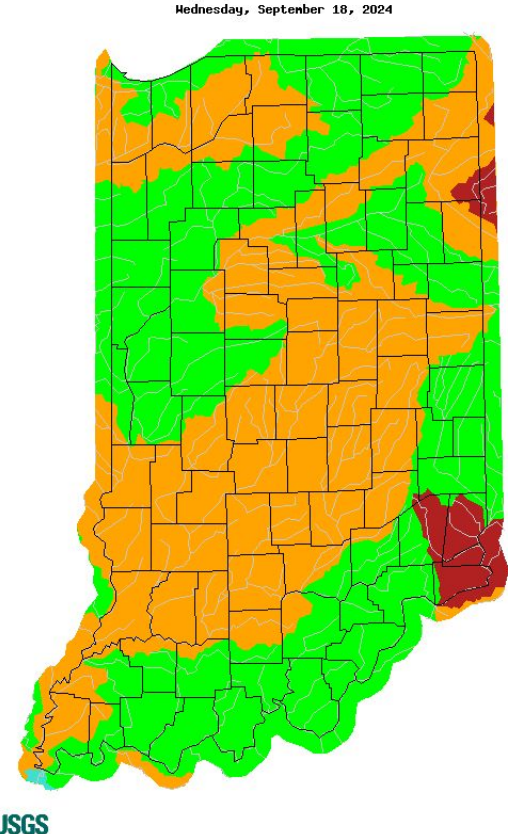


Image Caption: USGS 7 day average streamflow HUC map



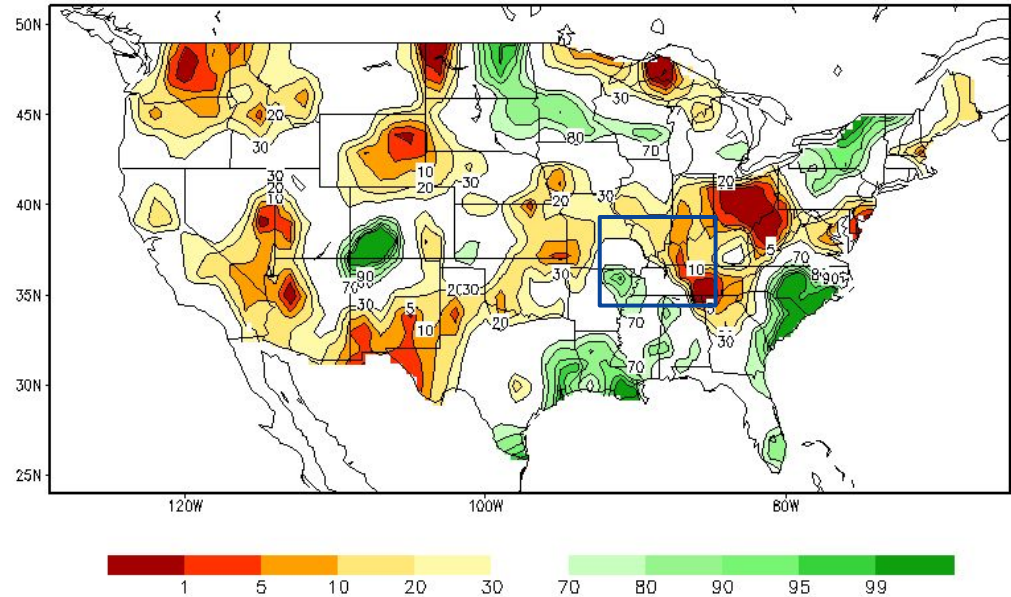




# Agricultural Impacts

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

Calculated Soil Moisture Ranking Percentile  
SEP 18, 2024

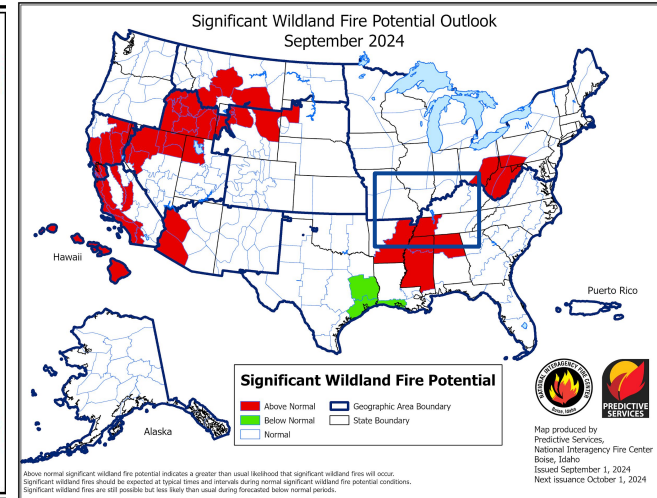
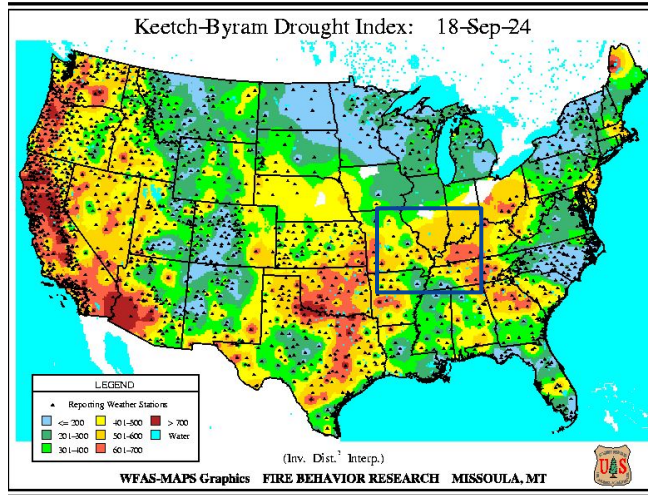




# Fire Hazard Impacts

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](#)

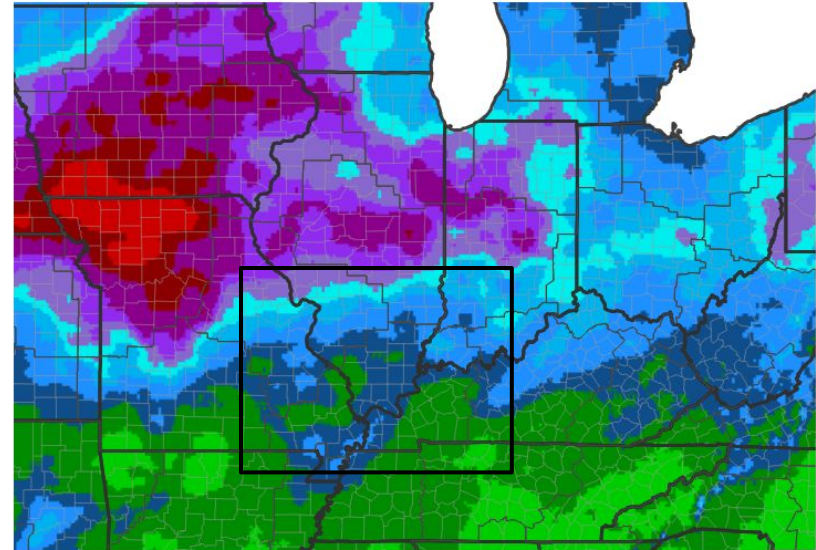




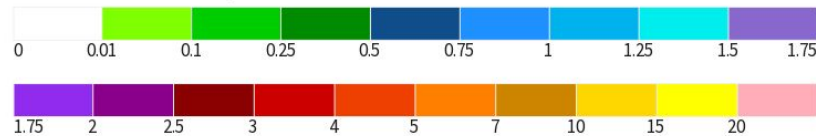
# Seven Day Precipitation Forecast

- A cold front will bring the next chance of rain to the region starting Sunday and lasting into early Tuesday. This will produce scattered to widely scattered showers and storms. Up to a 0.75 inches is possible but there may be a few areas that unfortunately won't see any rain.
- The upper level system will be slow to move out leaving us with slightly cooler temperatures, clouds and very small chances of showers through mid-week.

**7-Day Quantitative Precipitation Forecast for September 19, 2024–September 26, 2024**



**Predicted Inches of Precipitation**



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

Last Updated: 09/19/24





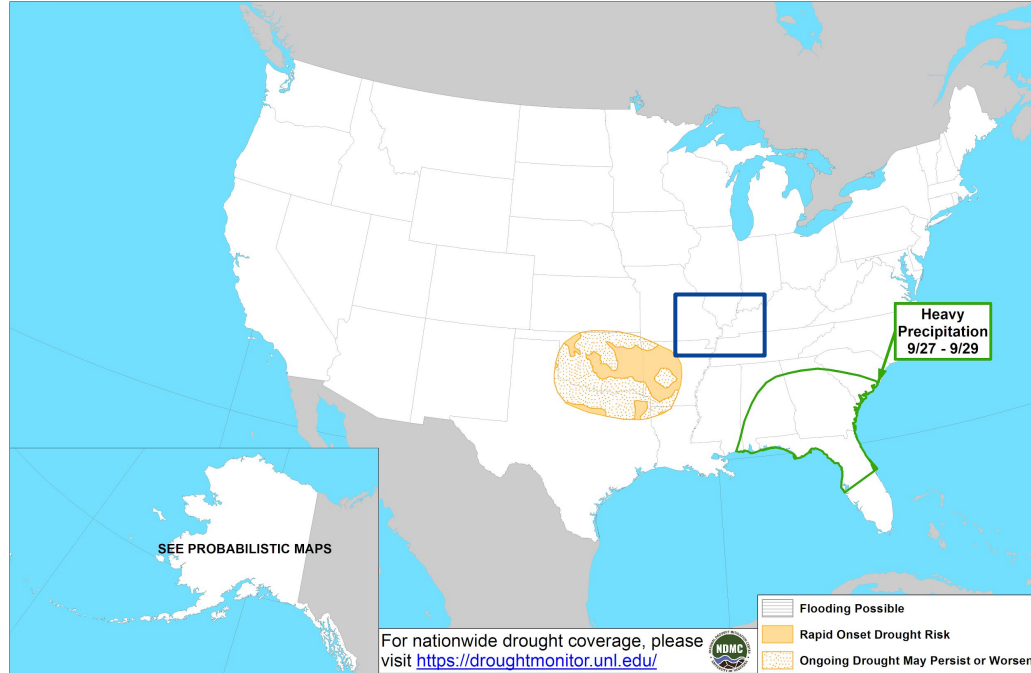
# Rapid Onset Drought Outlook

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: 09/27/2024-10/03/2024



Climate Prediction Center  
Made: 09/19/2024 3PM EDT

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www.cpc.ncep.noaa.gov



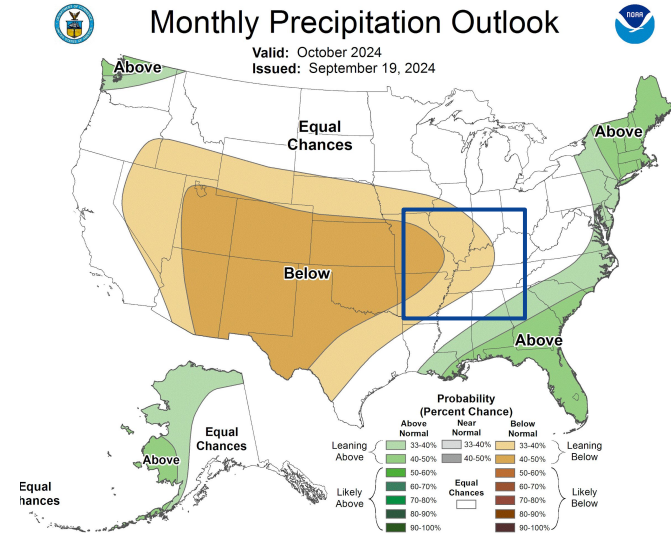
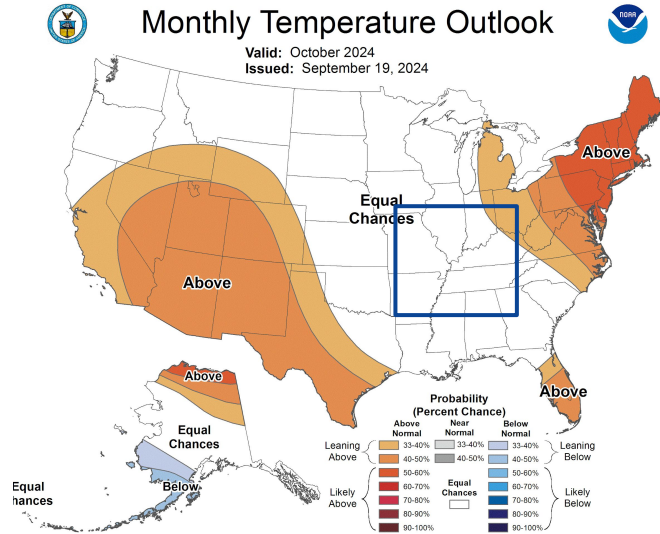




# Long-Range Outlooks

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.



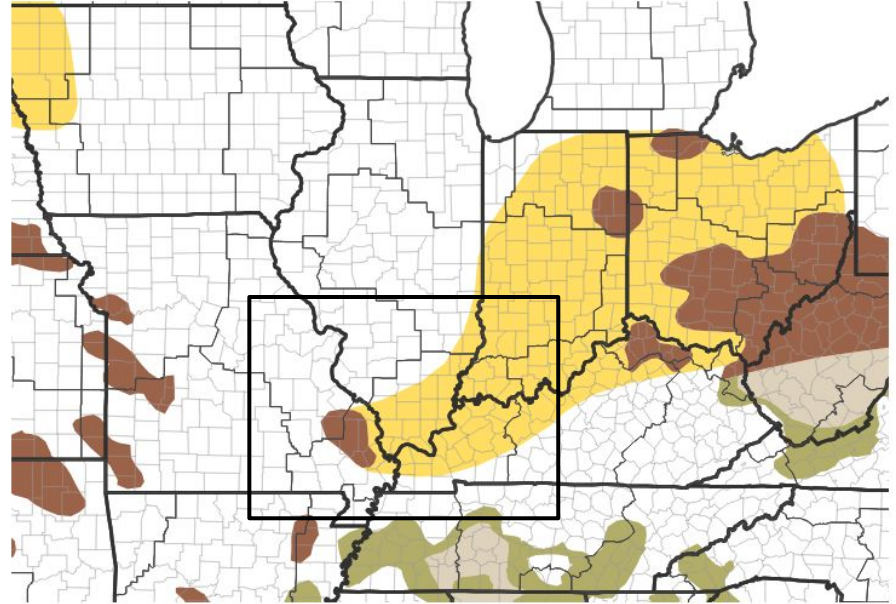


# Drought Outlook

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](#)



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

National Weather Service  
Paducah, KY