



Drought Information Statement for the Quad State Region

Valid October 4, 2024

Issued By: WFO Paducah, Kentucky

Contact Information: 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 brought welcome relief to the region in the form of steady rainfall spread out over four days. Dry weather is now expected for the next week or two.



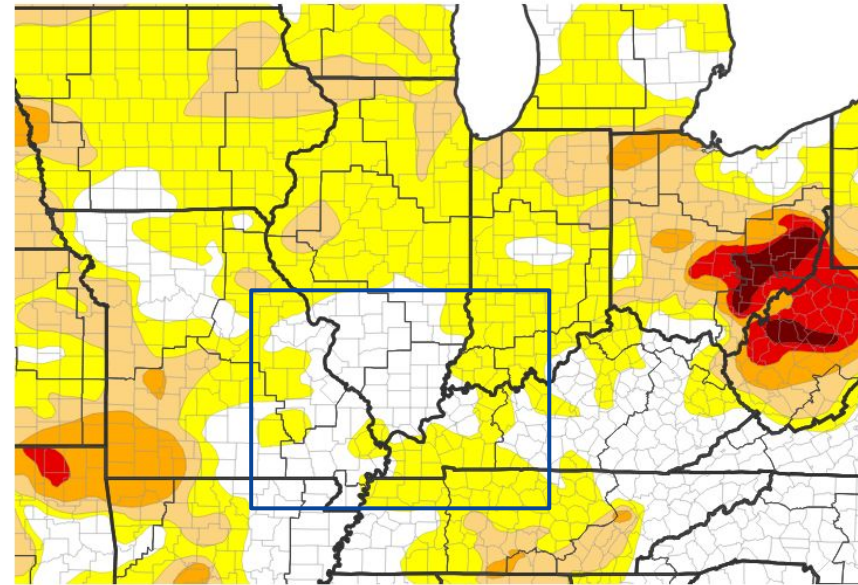


U.S. Drought Monitor

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: 10/01/24

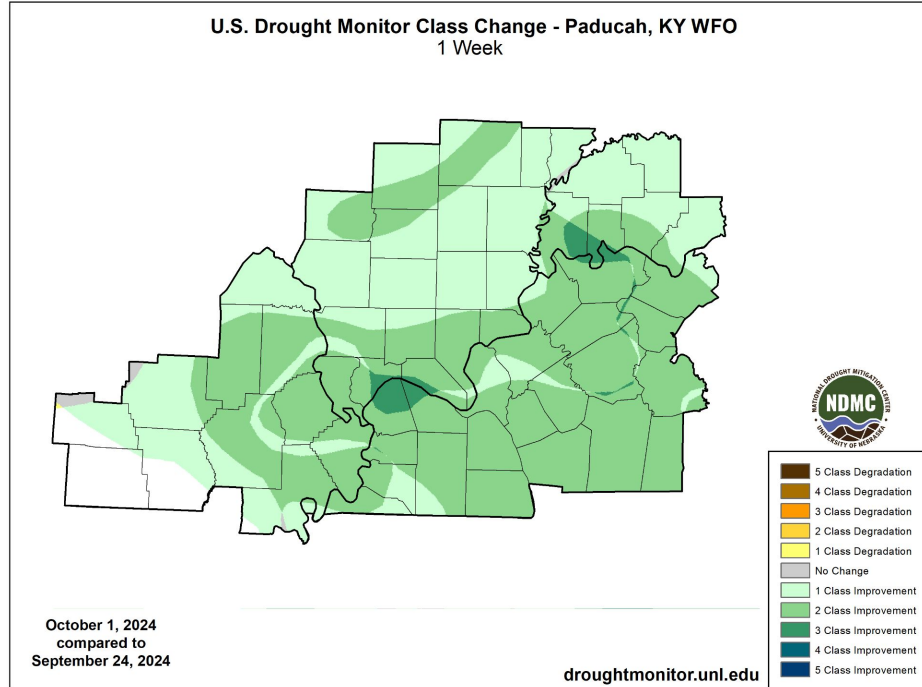




Recent Change in Drought Intensity

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 from Helene brought significant improvement across the region with some areas improving 2 to even 3 categories
 - Drought Worsened: none

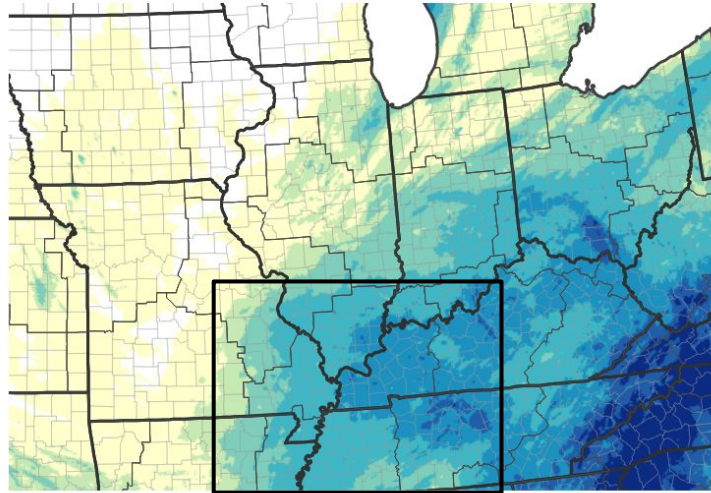




Precipitation

- The remnants of Helene brought widespread 4 to 6 inch rain amounts across much of the region. Our northern and western-most counties saw closer to 2-3 inches.

7-Day Precipitation Accumulations (Inches)

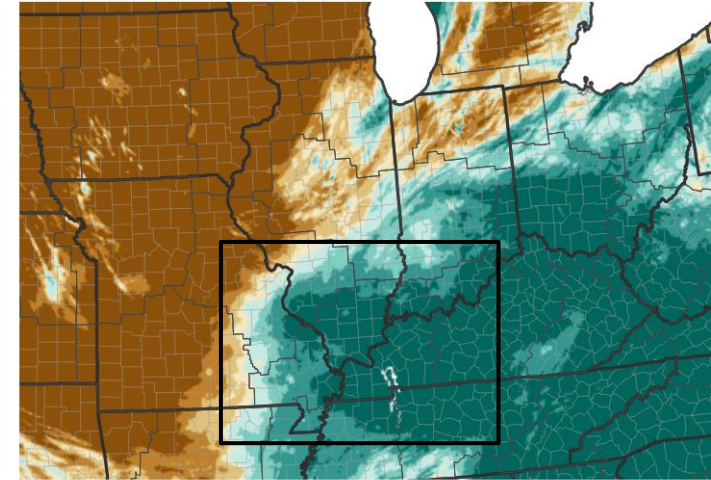


Inches of Precipitation

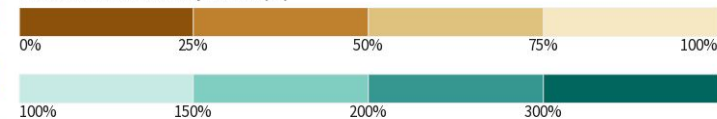


Source(s): National Weather Service Multi-Radar Multi-Sensor System; Last Updated: 10/03/24

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: 10/03/24



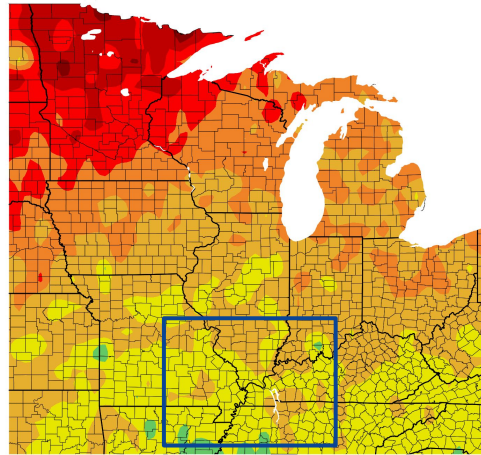


Temperature

Last 30 Day Average and Departure

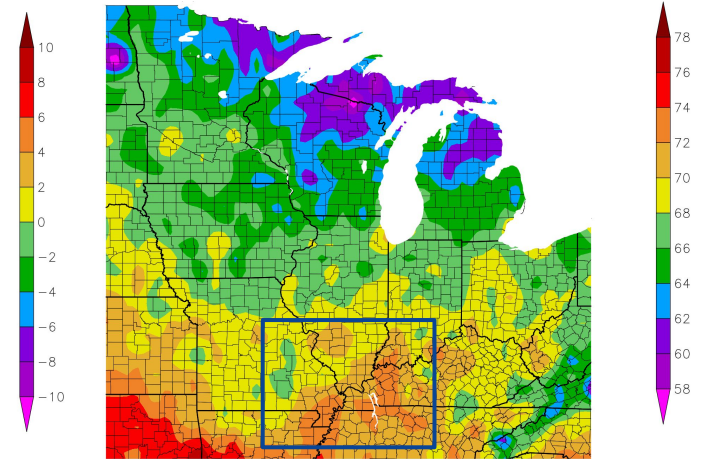
- Temperatures were much warmer this past week with daily averages up to 4 degrees above normal.

Departure from Normal Temperature (F)
9/4/2024 – 10/3/2024



Generated 10/4/2024 at HPRCC using provisional data.

Temperature (F)
9/4/2024 – 10/3/2024



NOAA Regional Climate Centers ³²⁴ 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

- Abundant rainfall brought welcome relief to the region's rivers without causing flooding issues. Runoff from last weekend's rain will keep low flow on the larger navigable rivers at bay for now.

Agricultural Impacts

- While the damage is done to late-planted crops such as corn and soybeans, the rain will help hayfields replenish.

Fire Hazard Impacts

- While burn bans have been lifted in most areas, this week's dry weather and dry weather again next week will lead to increasing wildfire concerns.

Other Impacts

- There are no known impacts at this time

Mitigation Actions

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

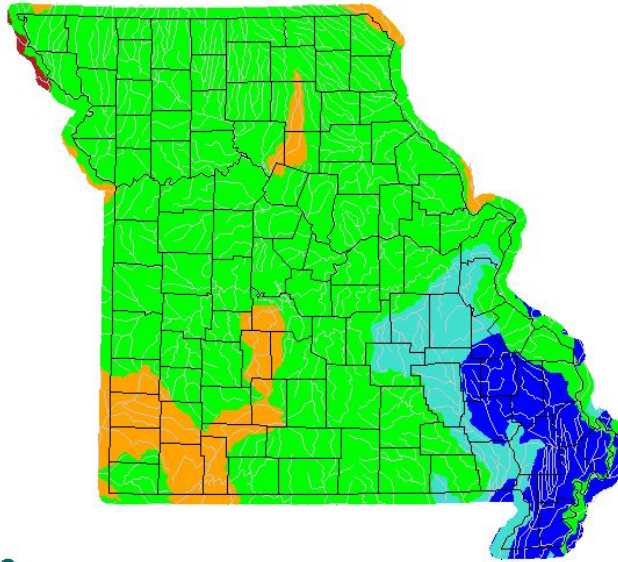




Hydrologic Conditions and Impacts

- Rivers bounced back significantly from recent rainfall.

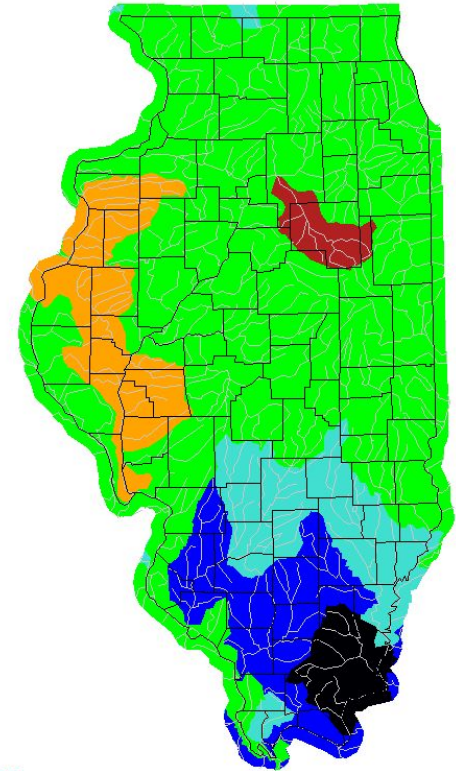
Thursday, October 03, 2024



USGS

Image Caption: USGS 7 day average streamflow HUC map

Thursday, October 03, 2024



USGS





Hydrologic Conditions and Impacts

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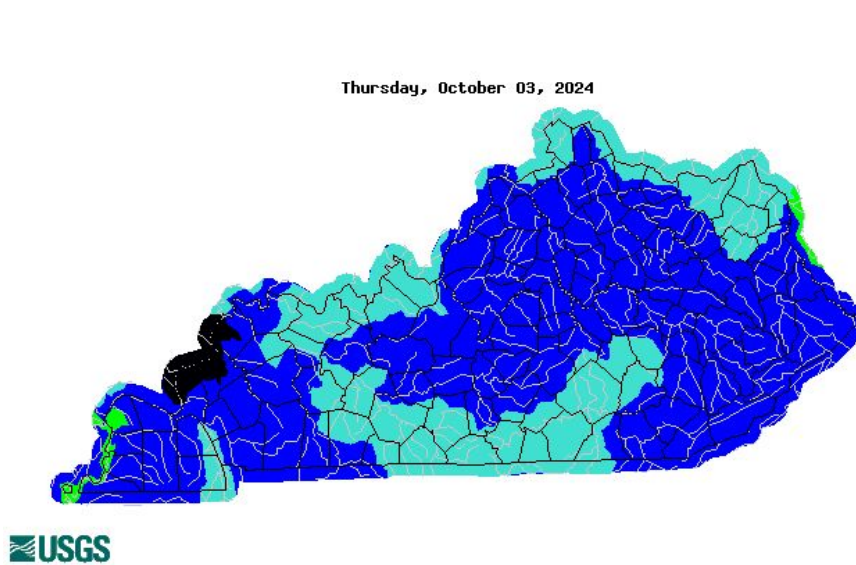
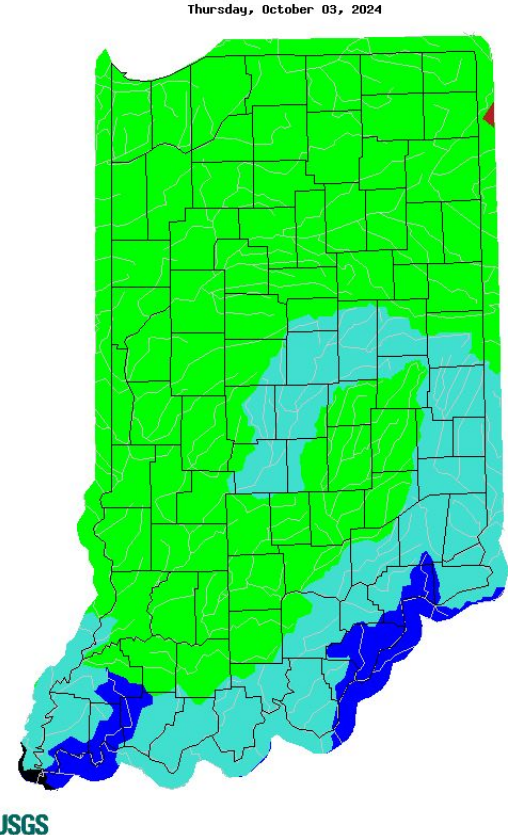


Image Caption: USGS 7 day average streamflow HUC map

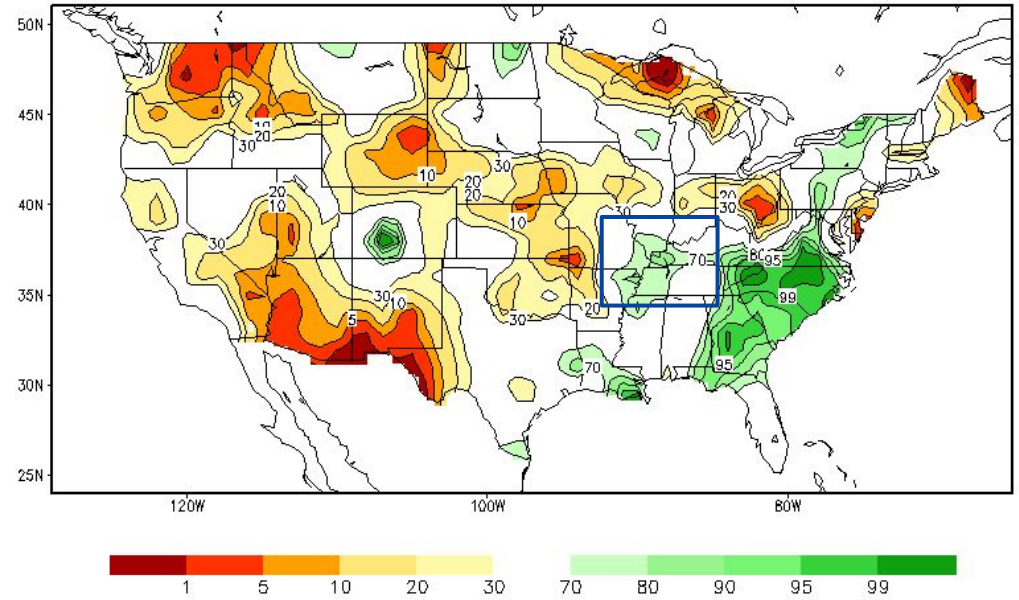




Agricultural Impacts

- Soil moisture has improved significantly across the region even at the 20 to 40 inch depths.

Calculated Soil Moisture Ranking Percentile
OCT 03, 2024

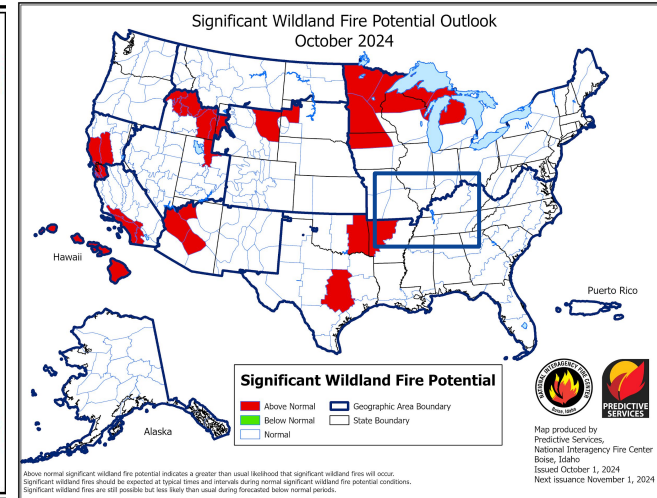
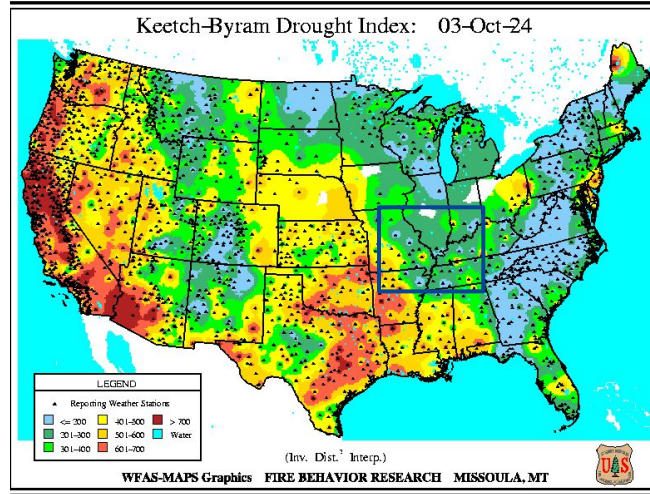




Fire Hazard Impacts

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

- Kentucky's seasonal burn ban went into effect October 1.
- While other local burn bans have been lifted, dry weather expected for the next couple of weeks will lead to increasing wildfire concerns.



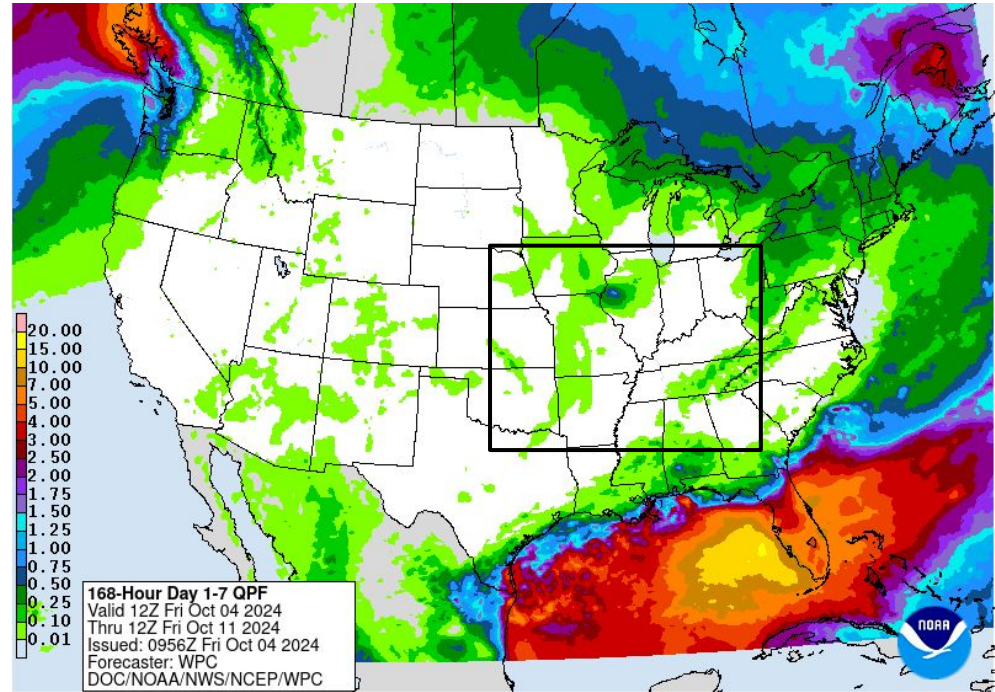
- [Significant Wildland Fire Potential Outlook Month 2](#)
- [Significant Wildland Fire Potential Outlook Month 3](#)
- [Significant Wildland Fire Potential Outlook Month 4](#)





Seven Day Precipitation Forecast

- No rain is expected over the next 7 days. Longer range forecasts are for below normal precipitation through the middle of October are for much below normal precipitation.





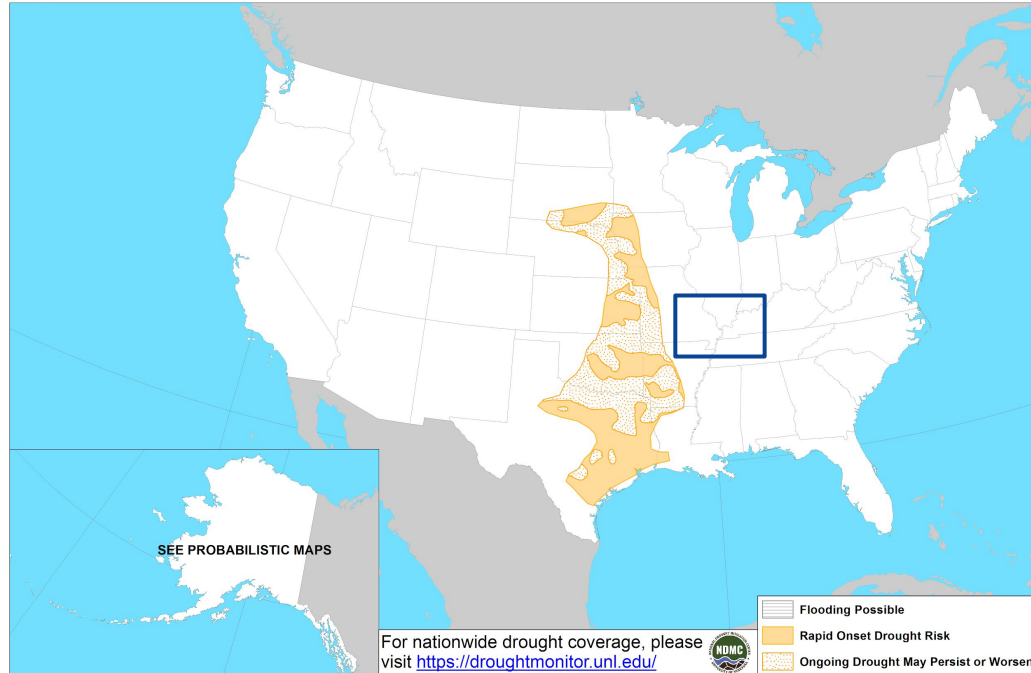
Rapid Onset Drought Outlook

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: 10/11/2024-10/17/2024



Climate Prediction Center
Made: 10/03/2024 3PM EDT

Follow us:
www.cpc.ncep.noaa.gov

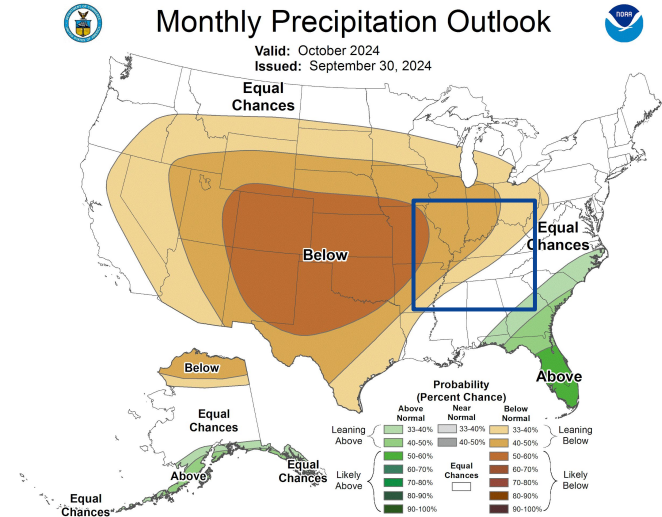
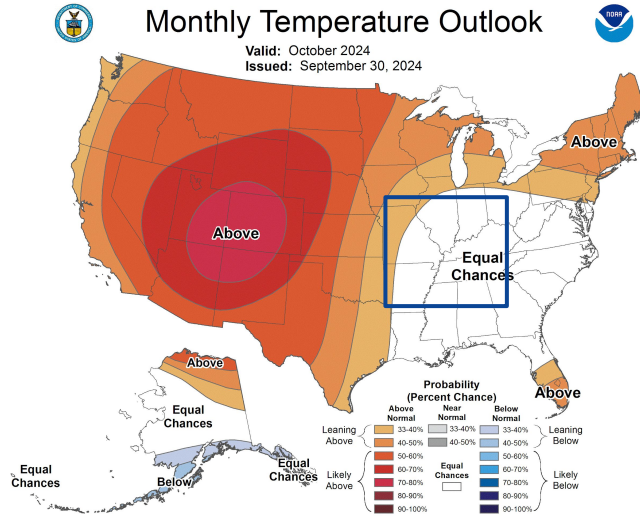




Long-Range Outlooks

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 while weeks 3 and 4 outlooks would have us return to more normal readings.





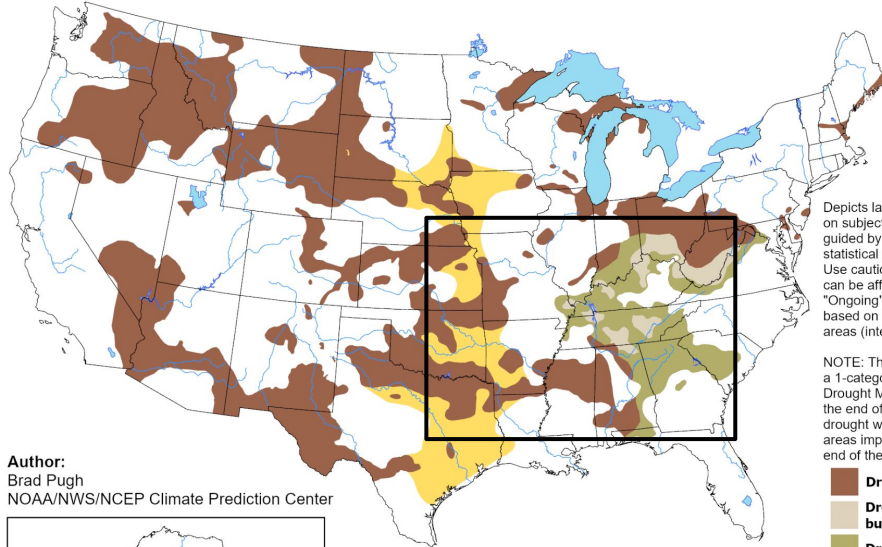
Drought Outlook

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

- Rainfall from Helene significantly improved drought conditions across the region.
- High pressure through mid-October will bring dry conditions.

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

Valid for October 2024
Released September 30, 2024

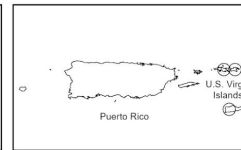
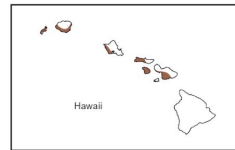
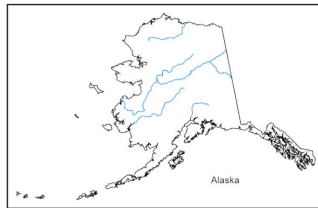


Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to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

Author:
Brad Pugh
NOAA/NWS/NCEP Climate Prediction Center



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

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