



Drought Information Statement for Southern Indiana and Central Kentucky

Valid August 8, 2024

Issued By: WFO Louisville KY

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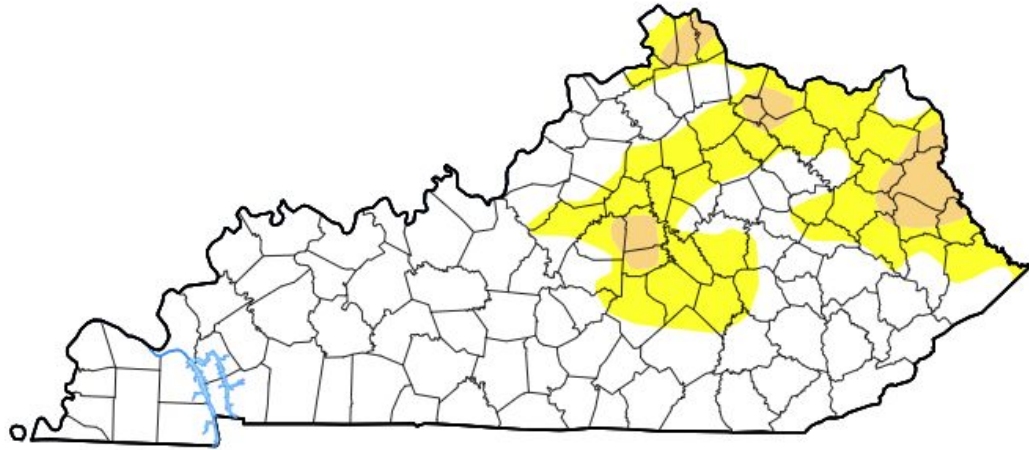
- This product will be updated once a month or more frequently if drought conditions change significantly.
 - Please see all currently available products at <https://drought.gov/drought-information-statements>.
 - Please visit <https://www.weather.gov/lmk/DroughtInformationStatement> for previous statements.
 - Please visit <https://www.drought.gov/drought-status-updates/> for regional drought status updates.
-
- Frequent rains have brought drought relief to much of the Kentucky Blue Grass.
 - Small area of Moderate Drought remains southwest of Lexington, KY.



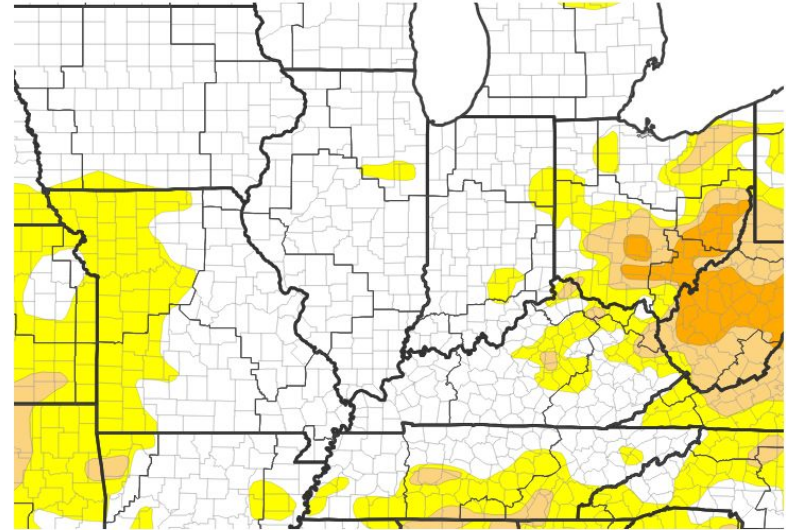


U.S. Drought Monitor

[U.S. Drought Monitor](#)



U.S. Drought Monitor



U.S. Drought Monitor



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

Data Valid: 08/06/24

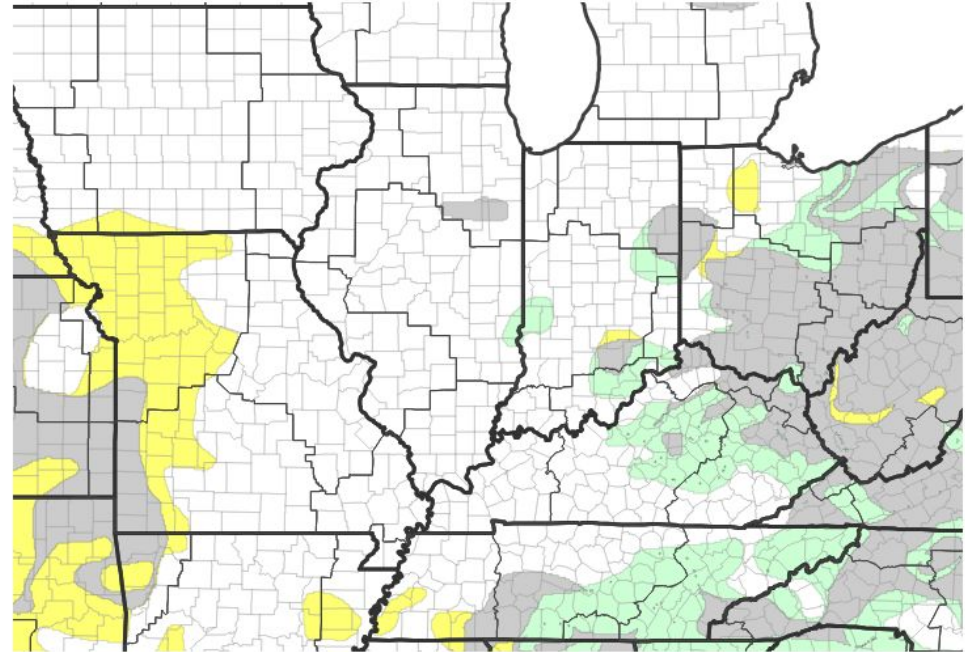




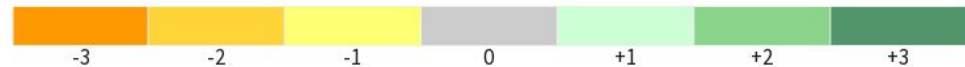
Recent Change in Drought Intensity

Link to the latest [1-week change map](#) for the U.S.

- One-Week Drought Monitor Class Change:
 - Moderate Drought (D1) and Abnormally Dry (D0) conditions improved by one class across most of southern Indiana and central Kentucky.
 - Conditions remained the same in a small area centered around Harrodsburg, KY, and in the Paris and Carlisle areas.



Drought Change Since Last Week



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

Data Valid: 08/06/24

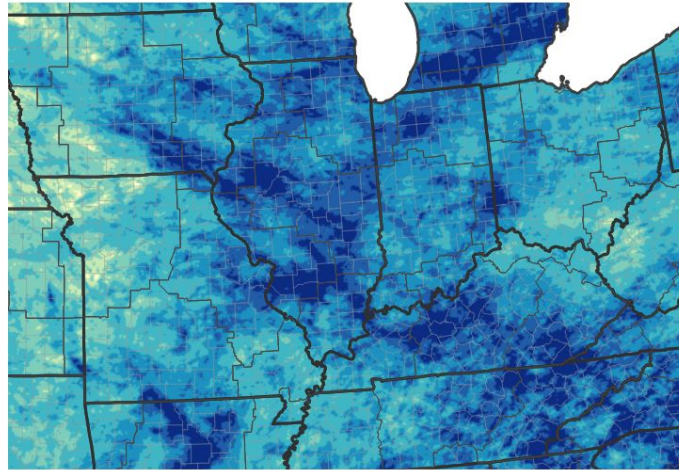




30-Day Precipitation

- Frequent rains July 28 through August 3 brought plentiful precipitation to most of southern Indiana and central Kentucky.
- While the convective nature of the rainfall led to uneven totals across the area, some spots received as much as 4 to 7 inches of rain during this time period.

30-Day Precipitation Accumulations (Inches)

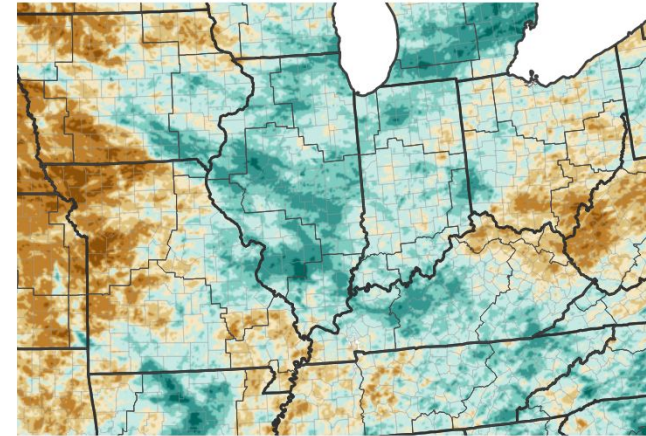


Inches of Precipitation

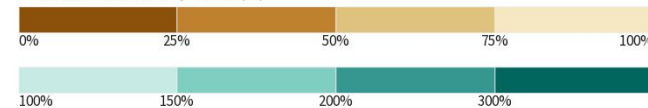


Source(s): National Weather Service Multi-Radar Multi-Sensor System; image courtesy of Drought.gov Last Updated: 08/08/24

30-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: 08/08/24



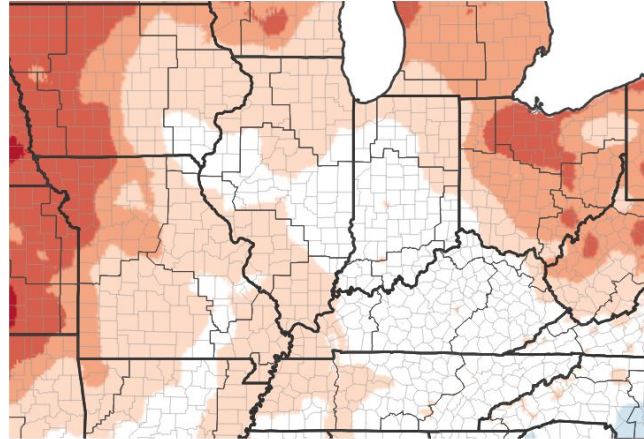


Temperature

Midwest Regional Climate Center

- Temperatures have generally been near normal over the 7- and 30-day periods ending August 4.

7-Day Temperature Anomaly

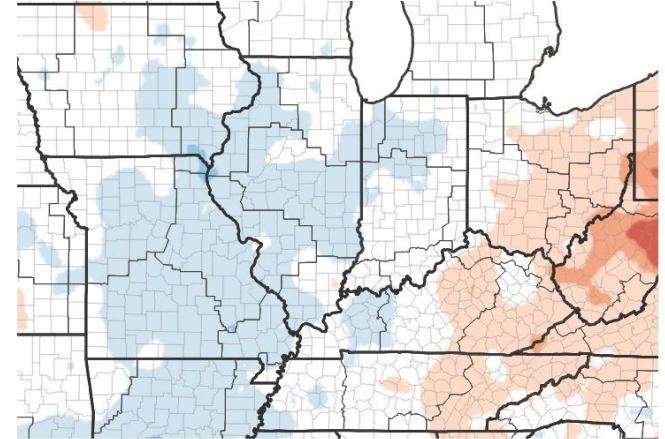


Departure from Normal Max Temperature (°F)



Source(s): NOAA's National Centers for Environmental Information; image courtesy of Drought.gov Data Valid: 08/04/24

30-Day Temperature Anomaly



Departure from Normal Max Temperature (°F)



Source(s): NOAA's National Centers for Environmental Information; image courtesy of Drought.gov Data Valid: 08/04/24





Summary of Impacts

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

Hydrologic Impacts

- Most streamflows in central Kentucky and southern Indiana are at or above normal. *USGS*

Agricultural Impacts

- With the recent rains, subsoil moisture in Kentucky is now 78% adequate or surplus. The corn crop is back to near the 5-year average with 68% of the crop good or excellent. Soybeans are slightly ahead of their 5-year average. Tobacco is slightly behind average, but that's due primarily to the frequent rains rather than drought. *USDA Crop Progress and Condition*

Fire Hazard Impacts

- No burn bans are in effect and fire danger class is low to moderate. *WFAS, ky.gov, in.gov*

Other Impacts

- Impacts are not significant at this time due to the restricted geographical coverage and low intensity.

Mitigation Actions

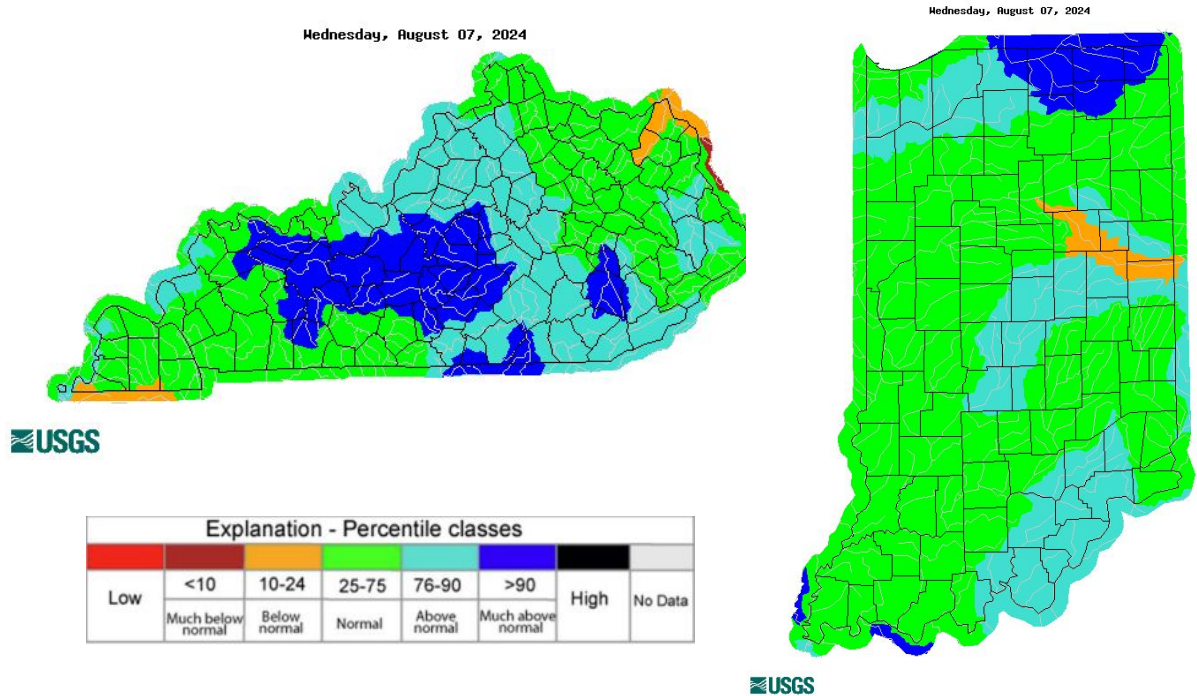
- Most water sources have been replenished, and in some areas pastures are difficult to use because of too much rain. *USDA Crop Progress and Condition*





Hydrologic Conditions and Impacts

- Although the recent rains came in the form of scattered summertime showers and storms, there were enough waves of showers and storms to bring streams back to normal or above normal average streamflows.
- No river flooding occurred, but several local Flood Advisories and Flash Flood Warnings were issued between July 28 and August 2.



USGS 7-day average streamflow Hydrologic Unit Code (HUC) maps



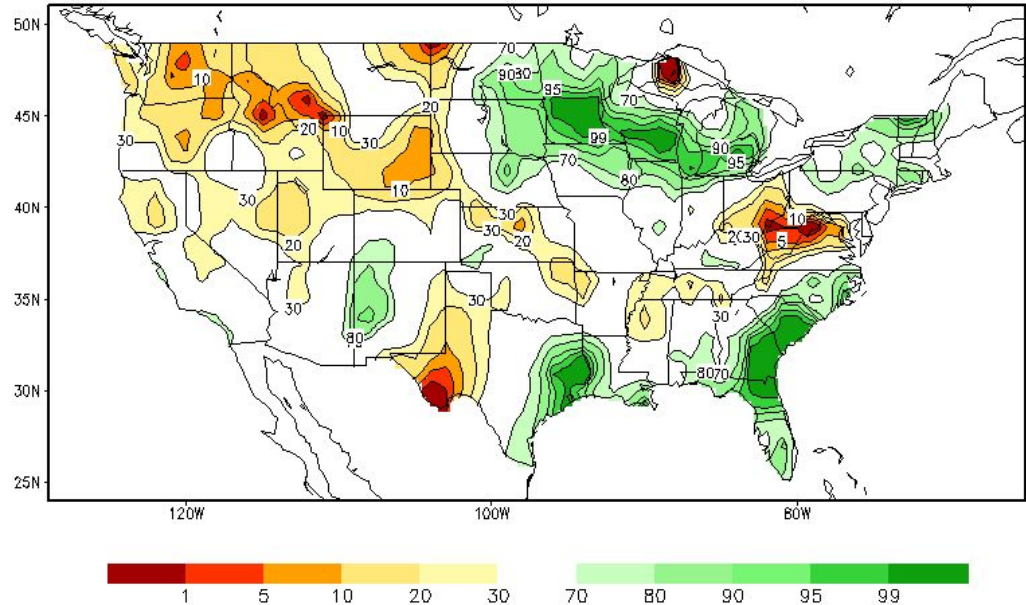


Agricultural Impacts

<https://www.cpc.ncep.noaa.gov/soilmst/img/curr.w.rank.daily.gif>

- Soil moisture has returned to near normal across much of the area.
- Kentucky Mesonet soil moisture data at the Mercer County site show a slight decline in soil moisture at 2" but steady moisture levels at all other depths since August 3. Boyle County shows a very slow, gradual decline in soil moisture.

Calculated Soil Moisture Ranking Percentile
AUG 07, 2024

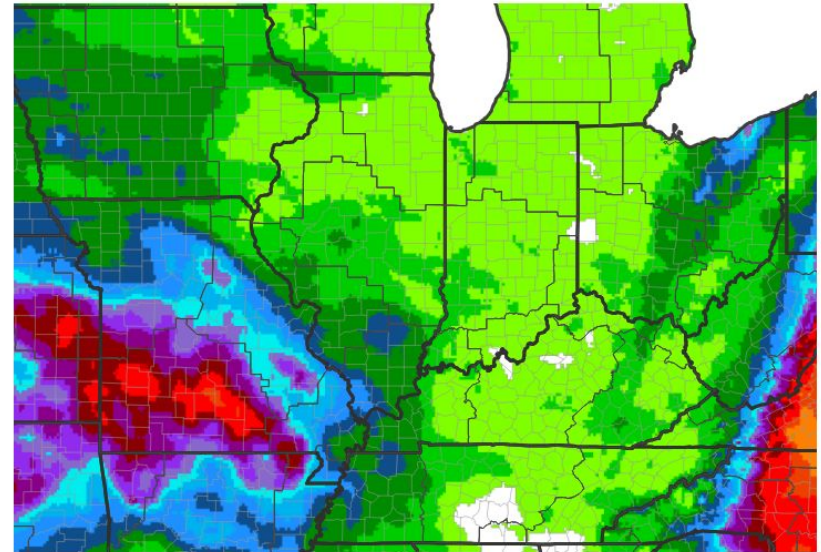




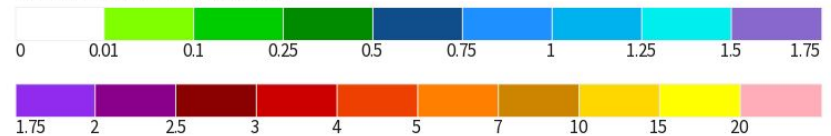
Seven Day Precipitation Forecast

- Very little rainfall is expected into early next week. Temperatures will be seasonable, with no extreme heat expected.
- By the second half of next week rain chances increase slightly, as do temperature and humidity levels.

7-Day Quantitative Precipitation Forecast



Predicted Inches of Precipitation



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

Last Updated: 08/08/24





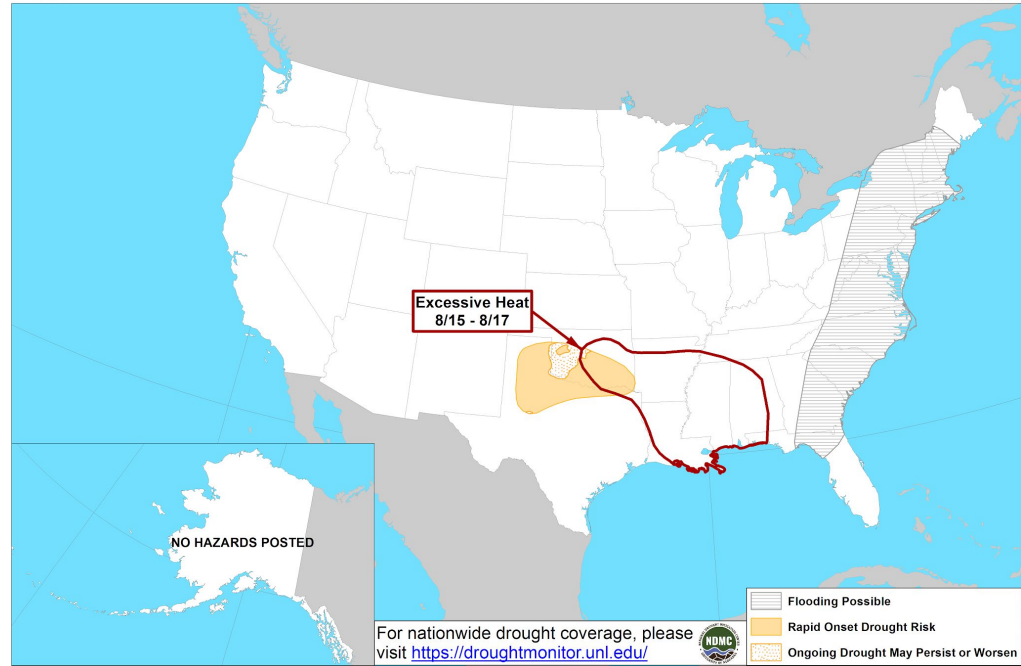
Rapid Onset Drought Outlook

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

- No hazards are outlooked for the middle Ohio Valley for the period August 15-21.
- Drought may rapidly develop in Texas and Oklahoma. Excessive heat will be possible in the lower Mississippi Valley.



Day 8-14 U.S. Hazards Outlook
Valid: 08/15/2024-08/21/2024



Climate Prediction Center
Made: 08/07/2024 3PM EDT

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



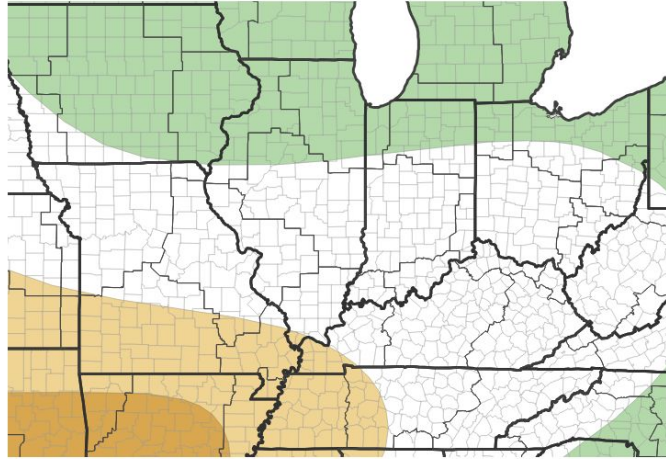


Long-Range Outlooks

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

- For the remainder of August, there is greater confidence in the temperature outlook than the precipitation outlook, with odds leaning toward warmer than normal readings.

Monthly Precipitation Outlook



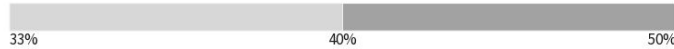
Probability of Below-Normal Precipitation



Probability of Above-Normal Precipitation



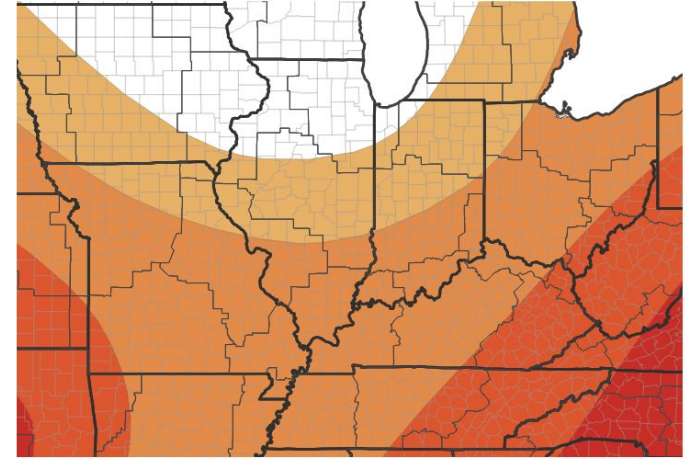
Probability of Near-Normal Precipitation



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

Last Updated: 07/31/24

Monthly Temperature Outlook



Probability of Below-Normal Temperatures



Probability of Above-Normal Temperatures



Probability of Near-Normal Temperatures



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

Last Updated: 07/31/24



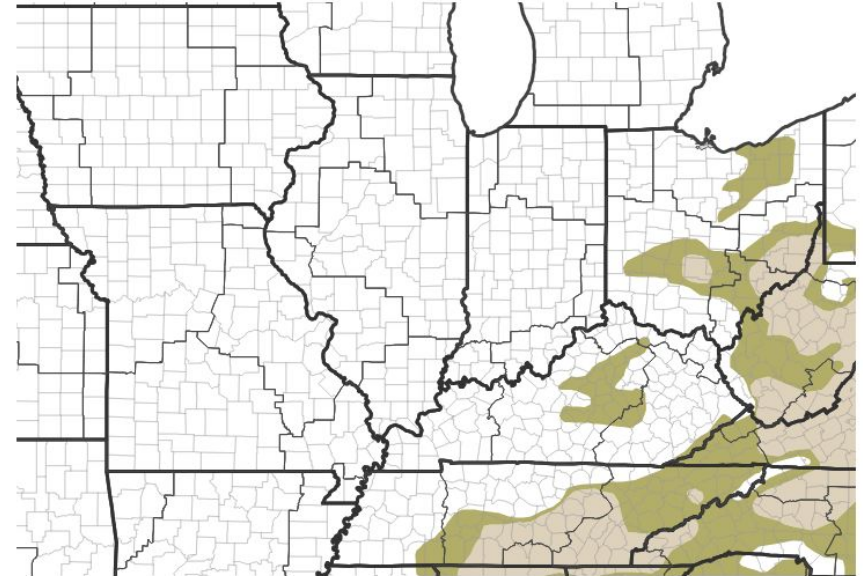


Drought Outlook

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

- Drought is expected to end across the Bluegrass Region, with no drought development in the rest of the area.

Seasonal (3-Month) Drought Outlook



Drought Is Predicted To...



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

Last Updated: 07/18/24

Links to the latest:

[Climate Prediction Center Monthly Drought Outlook](#)

[Climate Prediction Center Seasonal Drought Outlook](#)

