



Drought Information Statement for Southern Indiana and Central Kentucky

Valid July 26, 2024

Issued By: WFO Louisville KY

Contact Information: nws.louisville@noaa.gov

- 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.

- Moderate Drought (D1) has been designated for areas of Central Kentucky, including parts of the Bluegrass Region.
- Only minor areal changes in Abnormally Dry (D0) for some areas of Indiana.



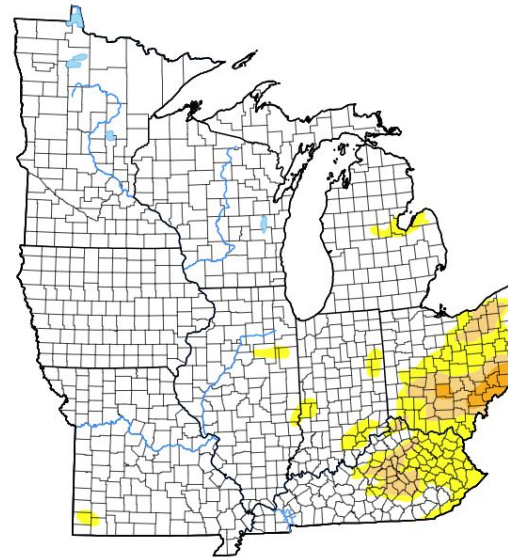


U.S. Drought Monitor

[U.S. Drought Monitor](#)

Midwest

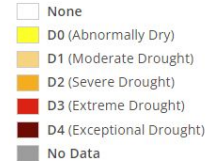
- Drought intensity and Extent
 - **D4 (Exceptional Drought):** [State each county or region under D4 or remove subheading.]
 - **D3 (Extreme Drought):** [State each county or region under D3 or remove subheading.]
 - **D2 (Severe Drought):** [State each county or region under D2 or remove subheading.]
 - **D1 (Moderate Drought):** [State each county or region under D1 or remove subheading.]
 - **D0: (Abnormally Dry):** [State each county or region under D0 or remove subheading.]



Map released: Thurs. July 25, 2024

Data valid: July 23, 2024 at 8 a.m. EDT

Intensity



Authors

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National Oceanic and
Atmospheric Administration

U.S. Department of Commerce

National Weather Service
WFO Louisville, KY

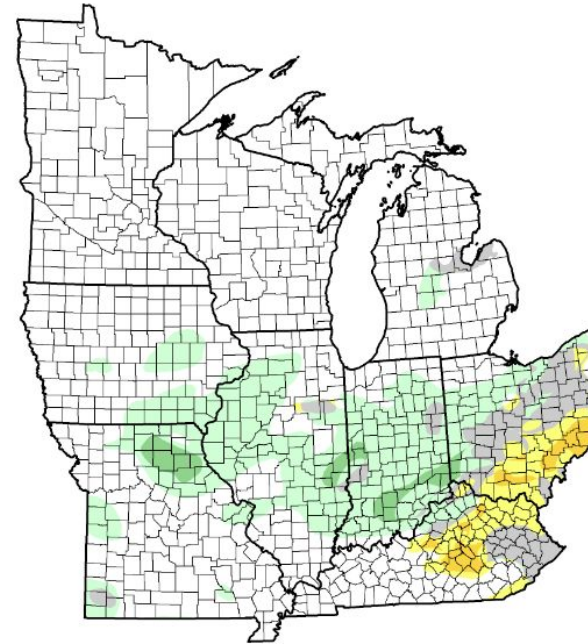


Recent Change in Drought Intensity

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

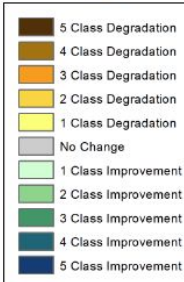
- One-Month Drought Monitor Class Change:
 - Drought worsened by one to two categories in parts of Kentucky. Counties within the Bluegrass Region were most affected.
 - One to two Class Improvements were seen across most of Southern Indiana.

U.S. Drought Monitor Class Change - Midwest Climate Region
4 Week



July 23, 2024
compared to
June 25, 2024

droughtmonitor.unl.edu

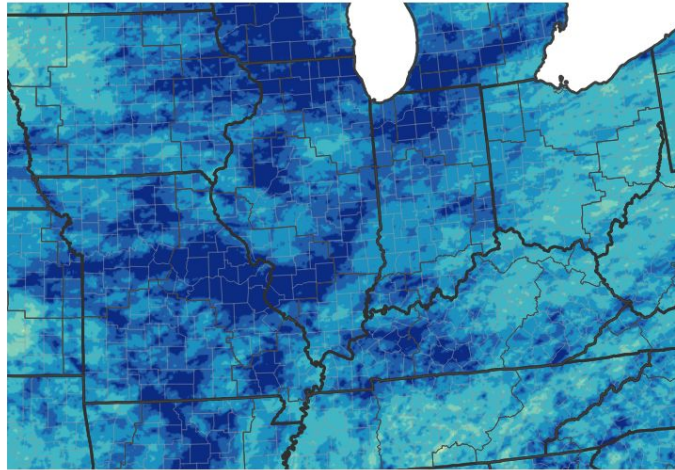




30-Day Precipitation

- Precipitation has been below normal over the past four weeks across much of eastern Kentucky and a few counties in southern Indiana.
- Western Kentucky has seen above normal rainfall over the past 30 days.

30-Day Precipitation Accumulations (Inches)

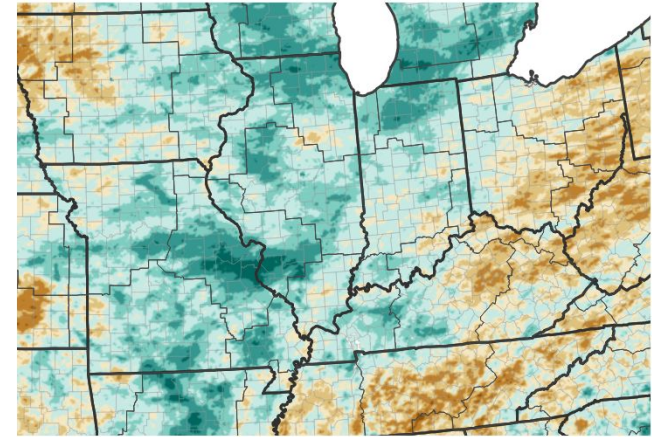


Inches of Precipitation

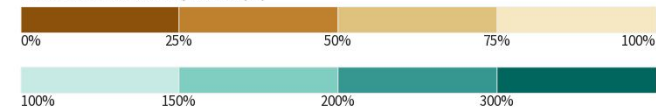


Source(s): National Weather Service Multi-Radar Multi-Sensor System; image courtesy of Drought.gov Last Updated: 07/24/24

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: 07/24/24



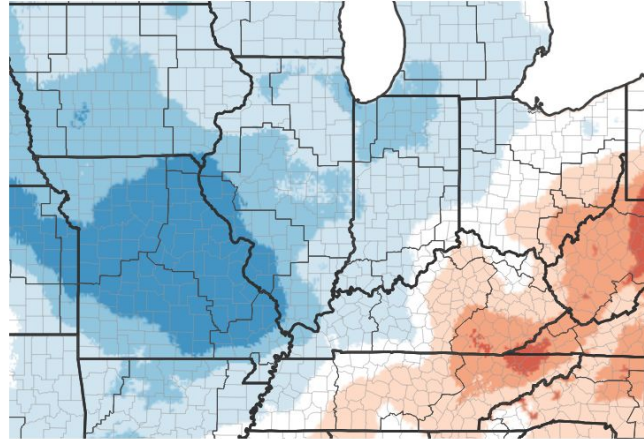


Temperature

Midwest Regional Climate Center

- Above normal temperatures have been observed across much of eastern Kentucky within the past 7 days and 30 days, while western Kentucky has seen slightly below normal temperatures.

7-Day Temperature Anomaly

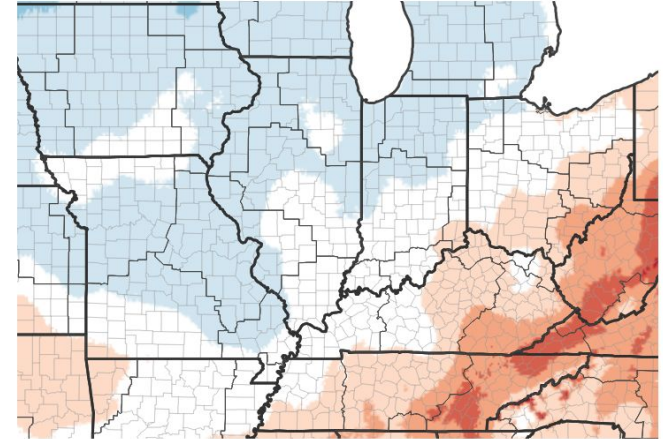


Departure from Normal Max Temperature (°F)



Source(s): NOAA's National Centers for Environmental Information; image courtesy of Drought.gov Data Valid: 07/21/24

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: 07/21/24





Summary of Impacts

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

Hydrologic Impacts

- Streamflows are well below normal. *USGS*

Agricultural Impacts

- Below-average precipitation levels have resulted in signs of crop stress in some parts of southeast Indiana and northern and eastern portions of Kentucky, especially on fields without irrigation systems. Corn and soybean conditions have declined and hay regrowth has stalled. Pastures have begun to struggle. *Indiana Crop Weather/County Extension/KDOW*

Fire Hazard Impacts

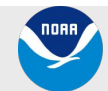
- Because this drought has just recently developed and is low intensity, fire hazards are still low at this time. *WFAS*

Other Impacts

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

Mitigation Actions

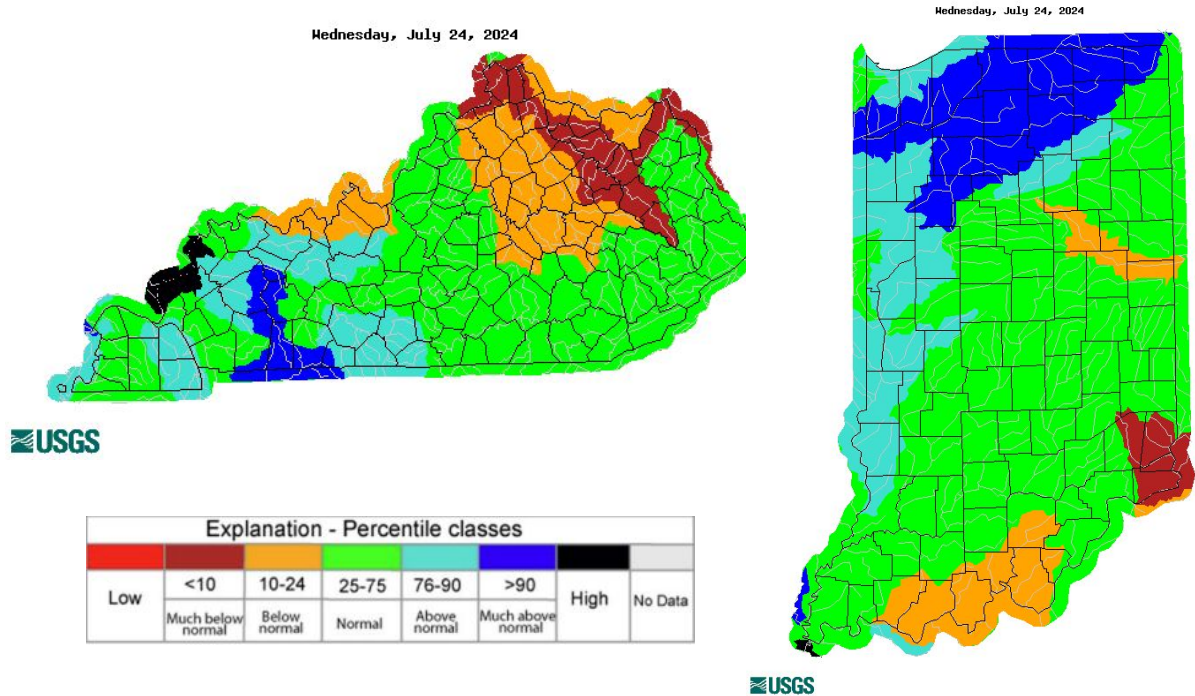
- Field irrigation has become a significant source of water for crops. *Indiana Crop Weather*





Hydrologic Conditions and Impacts

- The dry conditions have led to decreases in streamflow.
- Most streamflows in southern Indiana are normal to below normal.
- Below normal to much below normal streamflows can be found over portions of northern and eastern Kentucky. However central and western portions of Kentucky have normal to above normal streamflow.



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

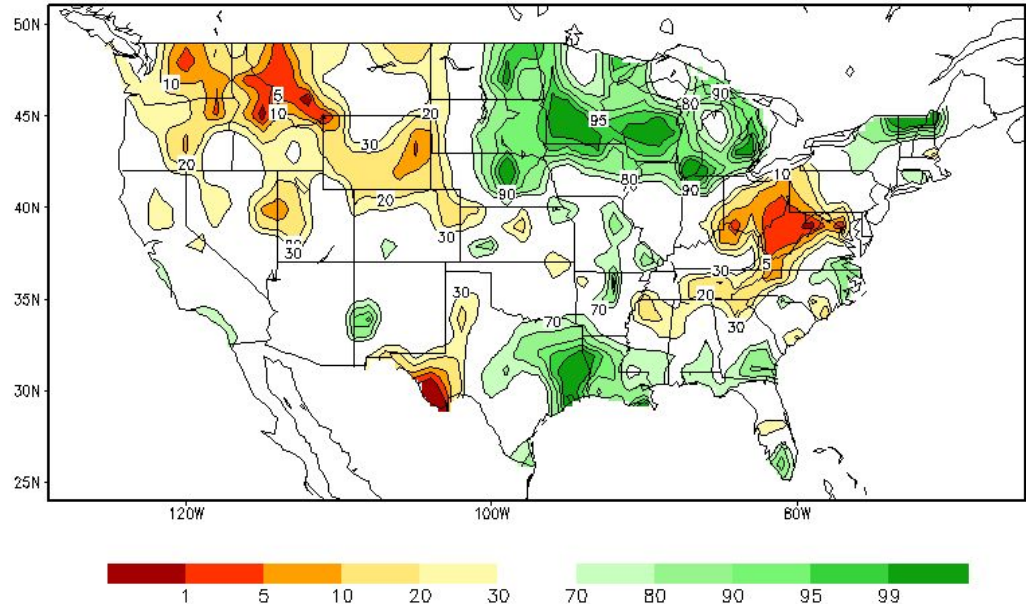




Agricultural Impacts

- Soil moisture is low in the middle and upper Ohio Valley as well as the central and southern Appalachians
- Kentucky Mesonet Data shows low soil moisture at all levels though the 2 and 4 inch soil levels showed some improvement with rains over the last week.
- In east central Kentucky, corn crops and mature landscaping are showing signs of stress from Georgetown to Lexington and Frankfort to Perryville. *County Extension/KDOW*
- In Clark and Scott Counties, Indiana, lawns, pastures, and row crops are stalled in growth. A few fields show corn rolling and soybeans wilting. Gardens and trees need irrigation. *County Extension*

Calculated Soil Moisture Ranking Percentile
JUL 24, 2024

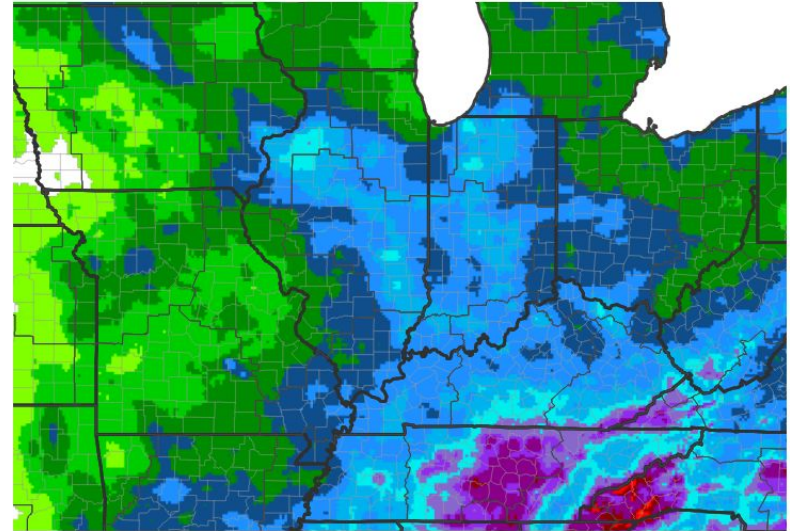




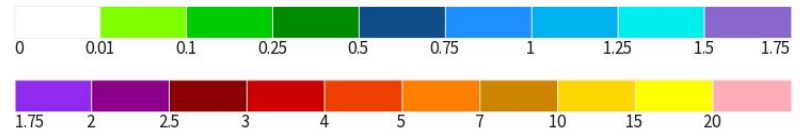
Seven Day Precipitation Forecast

- Small chances of showers and storms across southern Kentucky on today, July 26th.
- Scattered showers and storms expected on Saturday, July 27th.
- Widespread showers and storms expected on Sunday and Monday, July 28th and 29th.
- Rainfall chances decrease but with increasing temperatures expected for Tuesday and Wednesday, July 30th and 31st.

7-Day Quantitative Precipitation Forecast



Predicted Inches of Precipitation



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

Last Updated: 07/24/24





Rapid Onset Drought Outlook

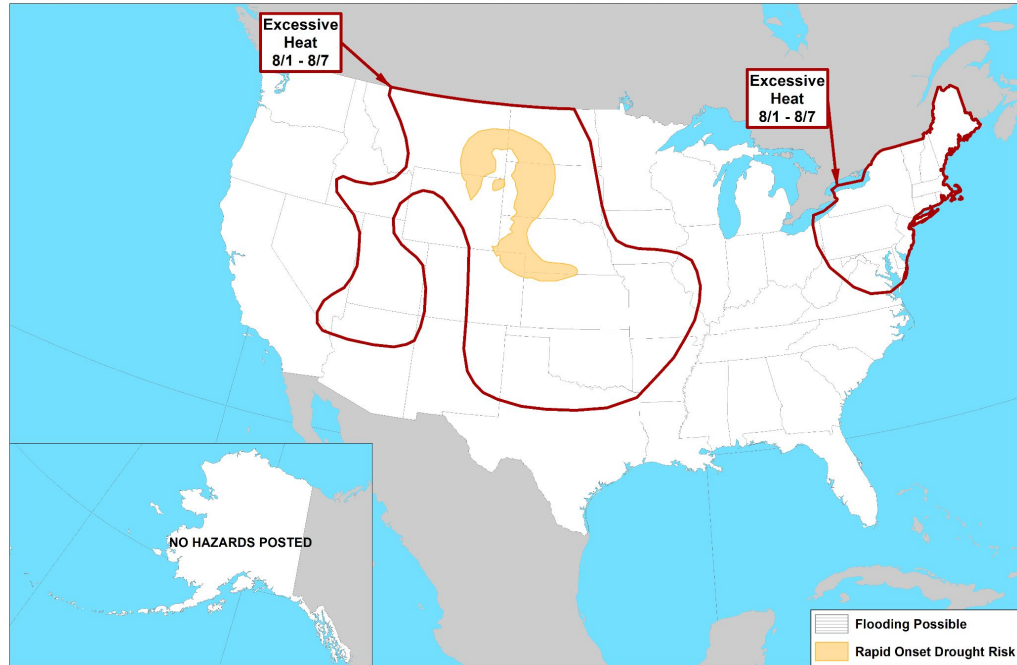
Links to the latest Climate Prediction Center 8 to 14 day [Temperature Outlook](#) and [Precipitation Outlook](#).

- Though there are no hazards highlighted for our area, slight excessive heat is expected across southern Indiana and Central Kentucky over the next 2 weeks.
- While normal precipitation is expected during this time frame, warmer than normal temperatures could lead to worsening drought conditions.



Day 8-14 U.S. Hazards Outlook

Valid: 08/01/2024-08/07/2024



Climate Prediction Center

Made: 07/24/2024 3PM EDT

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National Oceanic and Atmospheric Administration

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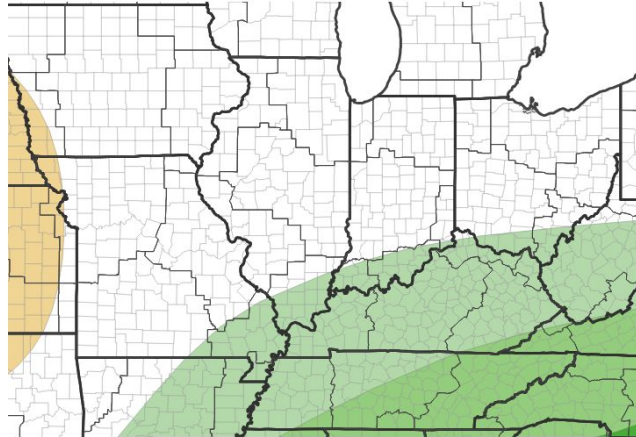


Long-Range Outlooks

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

- With normal precipitation expected over the next 2 weeks, a wet signal is observed for the latter half of August.
- Given the nature of summertime convection, some areas may receive sufficient moisture while others miss out
- There is greater confidence in the temperature outlook than the precipitation outlook, with warmer than normal readings likely.

Monthly Precipitation Outlook



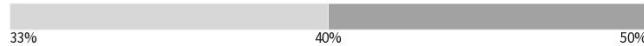
Probability of Below-Normal Precipitation



Probability of Above-Normal Precipitation



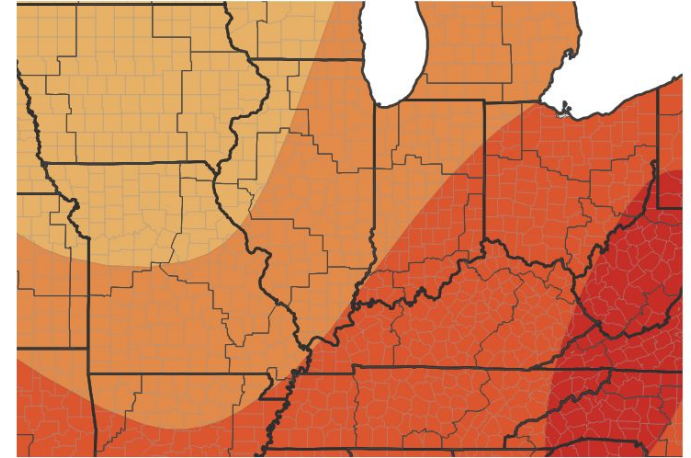
Probability of Near-Normal Precipitation



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

Last Updated: 07/18/24

Monthly Temperature Outlook



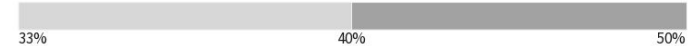
Probability of Below-Normal Temperatures



Probability of Above-Normal Temperatures



Probability of Near-Normal Temperatures



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

Last Updated: 07/18/24



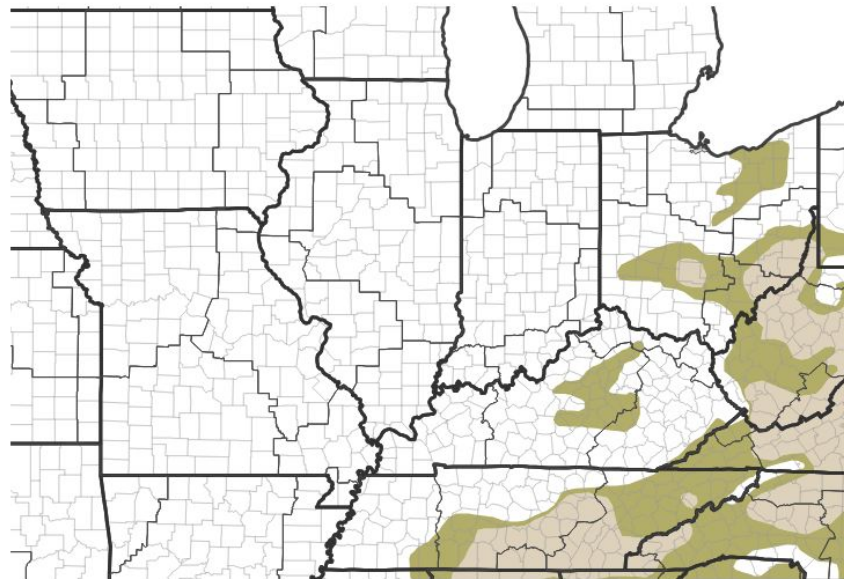


Drought Outlook

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

- Drought is expected to end across the Bluegrass Region, while no drought is expected for most of the region.

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](#)

