



Drought Information Statement for Southern Indiana and Central Kentucky

Valid November 2, 2023

Issued By: WFO Louisville KY

Contact Information:

- This product will be updated at least once a month or when 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.

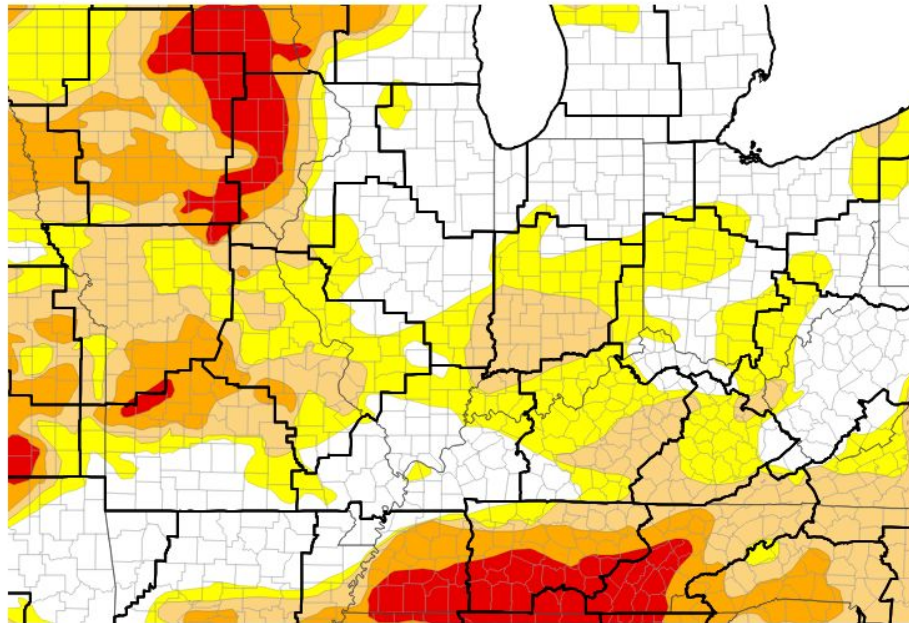




U.S. Drought Monitor

- Heavy rains October 29-30 alleviated the moderate drought in far southern Indiana and north central Kentucky
- Drought has remained or developed in eastern sections of central Kentucky from the southern Blue Grass to the Lake Cumberland region.

U.S. Drought Monitor



U.S. Drought Monitor

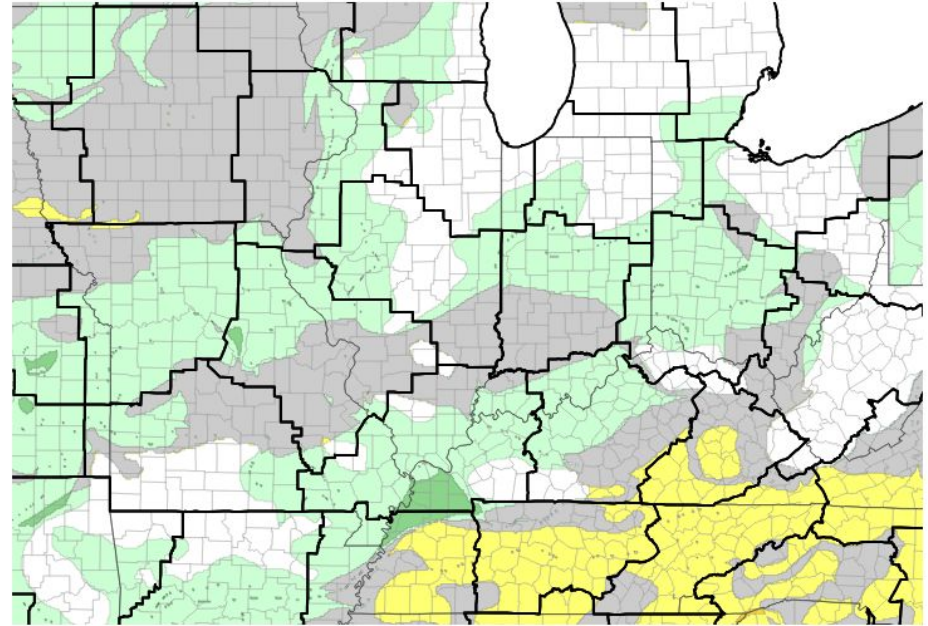




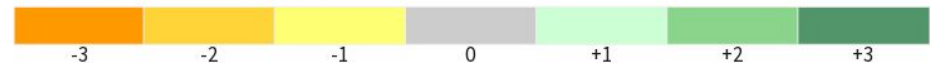
Recent Change in Drought Intensity

- Four Week Drought Monitor Class Change
 - Over the past month there has been an end to the drought in far southern Indiana and north central Kentucky
 - Conditions have also improved in western Kentucky
 - Drought remains across much of eastern Kentucky

U.S. Drought Monitor 1-Week Change Map



Drought Change Since Last Week

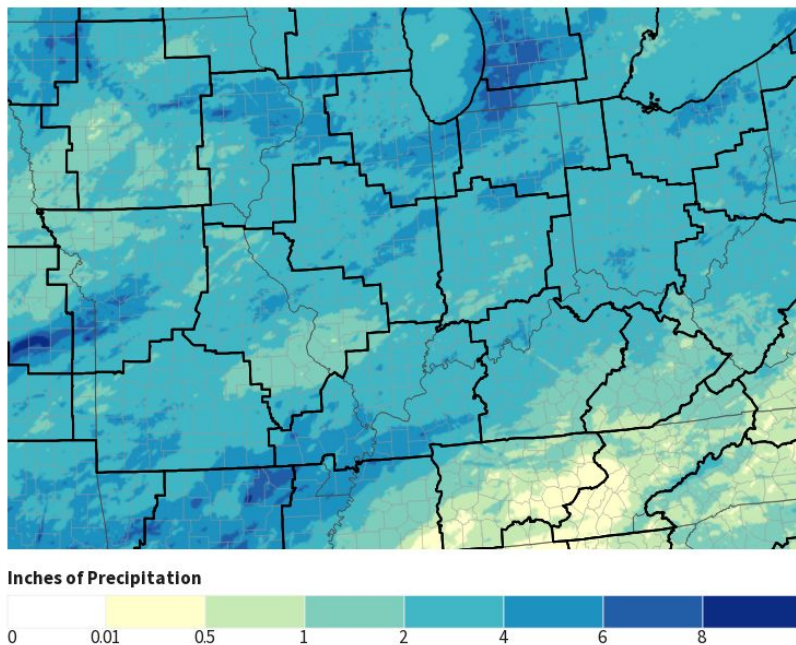




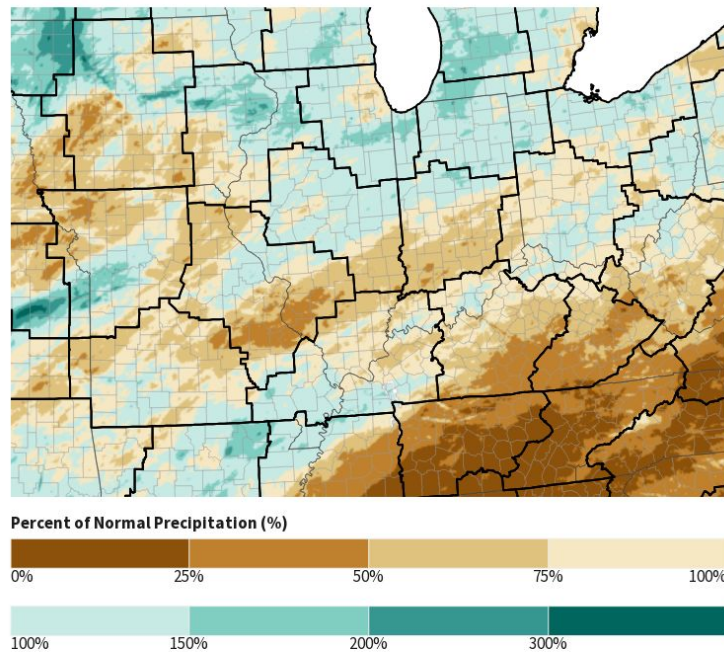
Precipitation

Rainfall has been below normal over the past 30 days as a whole, especially east of Bowling Green and south of Lexington where moderate drought conditions remain. Some spots in southern Indiana now have a surplus thanks to widespread rains in late October.

30-Day Precipitation Accumulations (Inches)



30-Day Percent of Normal Precipitation



Data Courtesy Midwest Regional Climate Center.

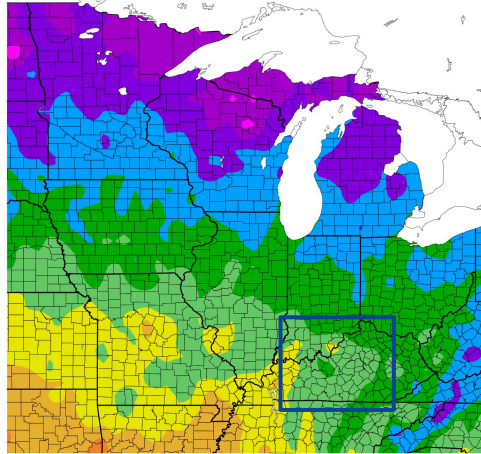




Temperature

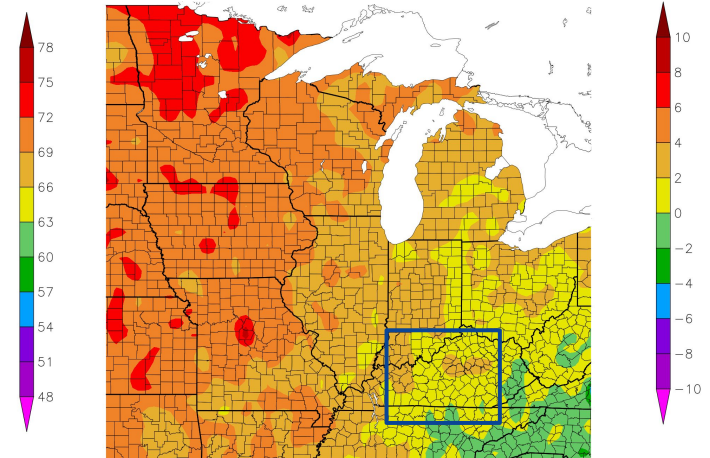
- Temperatures generally hovered around or slightly above normal in October, though there was a significant warm-up from the 24th through the 29th.
- Louisville set a new record warm low temperature of 66° on October 27. The old record was 65° set in 1991.

Temperature (F)
9/27/2023 – 10/26/2023



Generated 10/27/2023 at HPRCC using provisional data.

Departure from Normal Temperature (F)
9/27/2023 – 10/26/2023



NOAA Regional Climate Centers 2023 at HPRCC using provisional data.

NOAA Regional Climate Centers

Data Courtesy Midwest Regional Climate Center.





Summary of Impacts

Hydrologic Impacts

- Recent rains have benefitted local streamflows, with most streams near normal for the time of year.

Agricultural Impacts

- In Kentucky the corn harvest is nearing completion, the soybean harvest is about two-thirds done, and half of winter wheat seeding is complete. Conditions were slightly wetter in Indiana, hampering the rate of harvest. However, 70% of Indiana topsoil moisture is now adequate or surplus.

Fire Hazard Impacts

- Wildfire risk will continue as long as dry conditions remain in place, especially as leaf litter accumulates, though recent rains have kept fire danger in check.

Other Impacts

- Some livestock in Kentucky have been receiving supplemental hay.

Mitigation Actions

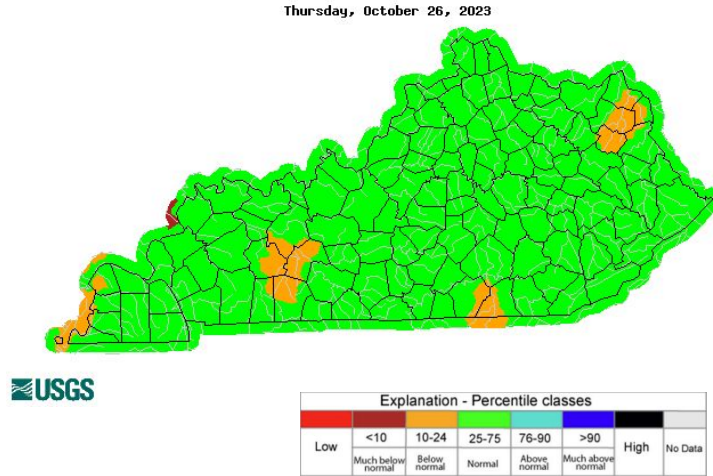
- Please refer to your municipality, water provider, or extension office for mitigation information.



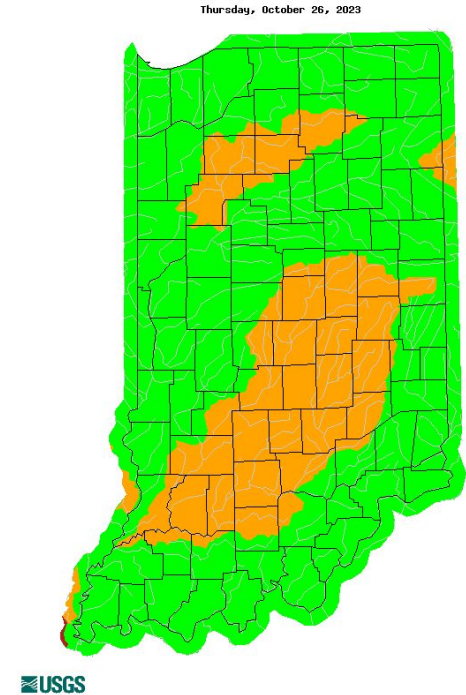


Hydrologic Conditions and Impacts

- Most streamflows in southern Indiana and central Kentucky are near normal for this time of year.



USGS 7 day average streamflow HUC map

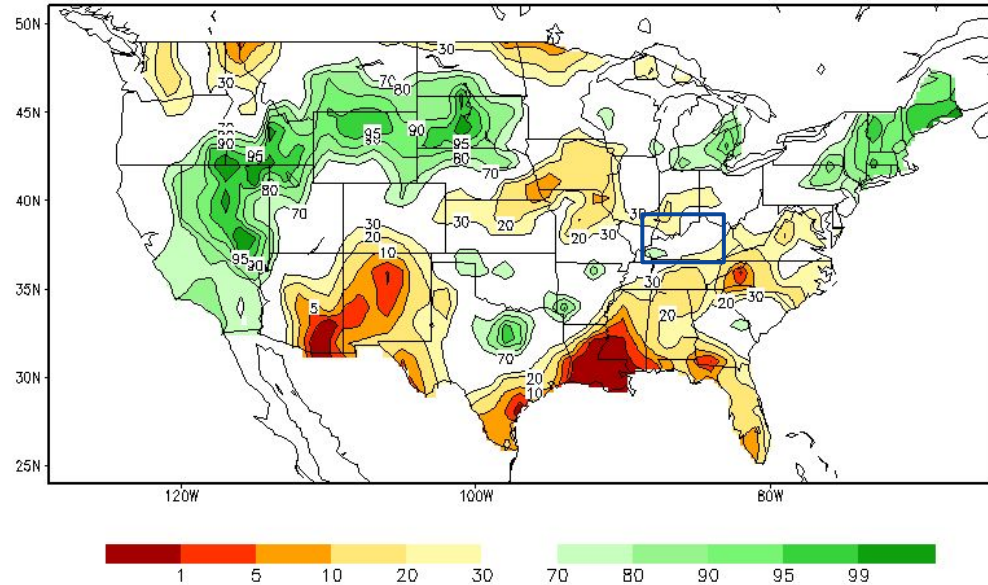




Agricultural Impacts

- Soil moisture has improved where significant rains fell in late October.

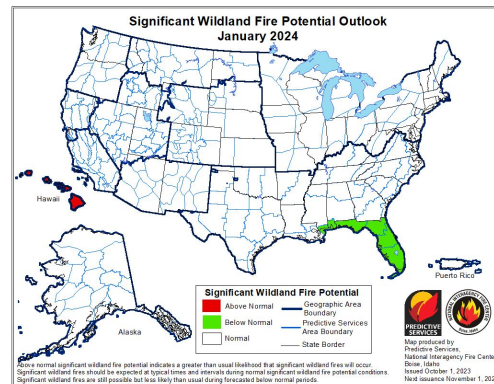
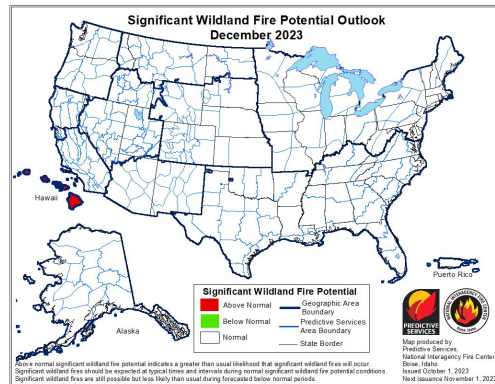
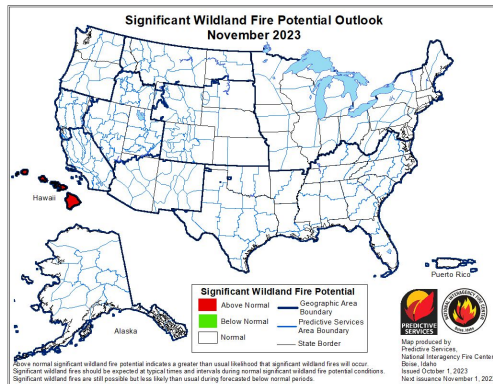
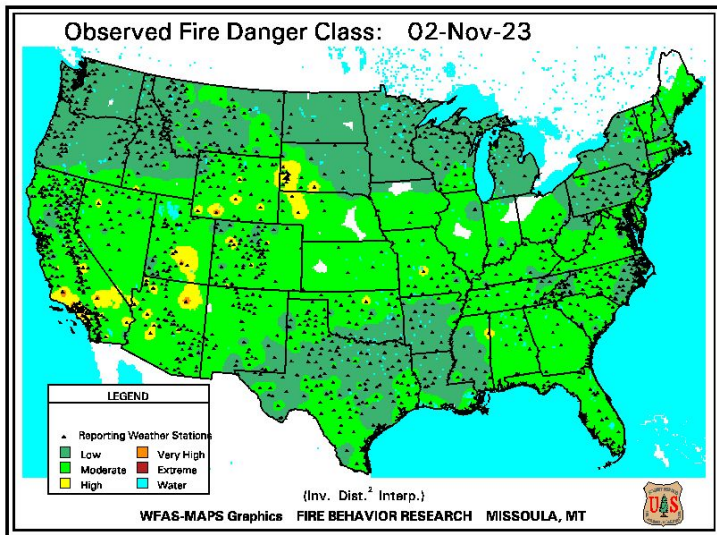
Calculated Soil Moisture Ranking Percentile
NOV 01, 2023





Fire Hazard Impacts

- Observed Fire Danger Class as of November 2 is moderate in the Ohio Valley.
- Significant wildland fires are unlikely.

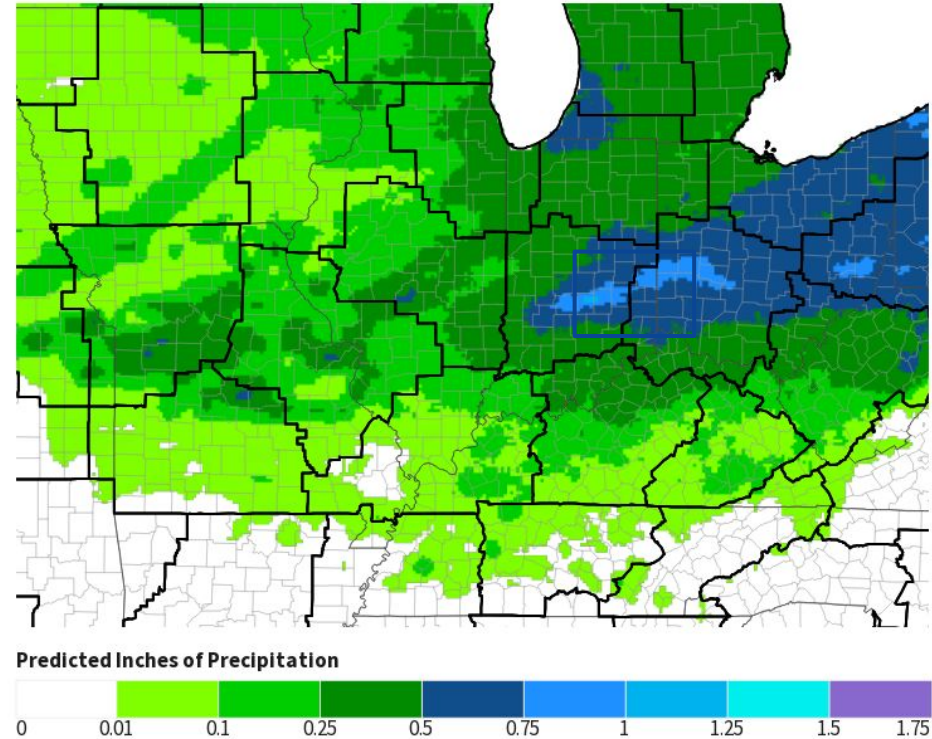




Seven Day Precipitation Forecast

- The seven day forecast indicates light rains across the region in the coming week. While heavy rain is not expected, the rain will come in the form of scattered showers spread out over several days Monday night through Friday (November 6-10). These periods of showers and their associated cloudiness will restrict evaporation and help maintain soil moisture.
- Total rainfall amounts next week are expected to be around a quarter inch to as much as a half inch.

7-Day Quantitative Precipitation Forecast





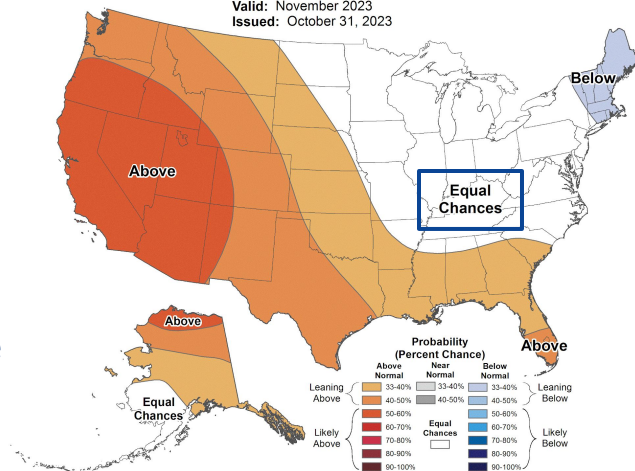
Long-Range Outlooks

- In November odds are tilting toward a drier than normal month. There's no clear signal for temperature.
- The October issuance of the Winter Outlook is available in the News Headline section at weather.gov/louisville. The Climate Prediction Center will update its Winter Outlook on November 16.



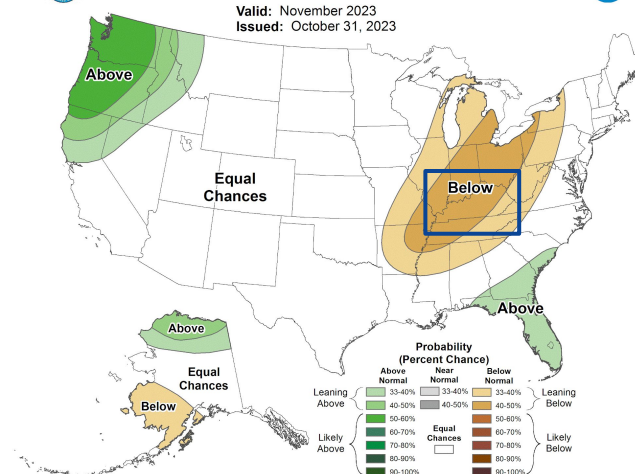
Monthly Temperature Outlook

Valid: November 2023
Issued: October 31, 2023



Monthly Precipitation Outlook

Valid: November 2023
Issued: October 31, 2023

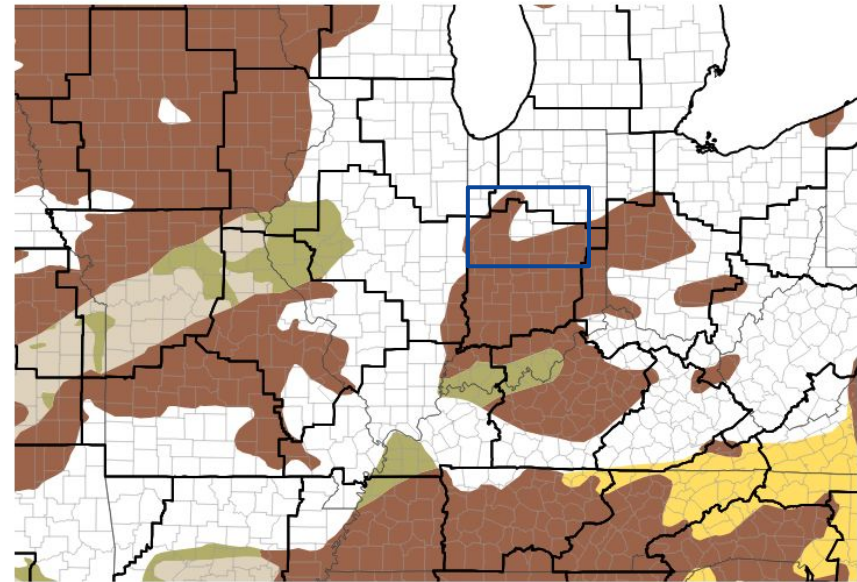




Drought Outlook

- In the short term, for the next several days, drought conditions will likely remain steady.
- Further drought amelioration will be possible in the coming weeks.

1-Month Drought Outlook



Drought Is Predicted To...

