



Drought Information Statement for Southern Indiana and Central Kentucky

Valid September 29, 2023

Issued By: WFO Louisville KY

Contact Information:

- This product will be updated October 5, 2023 or sooner 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.



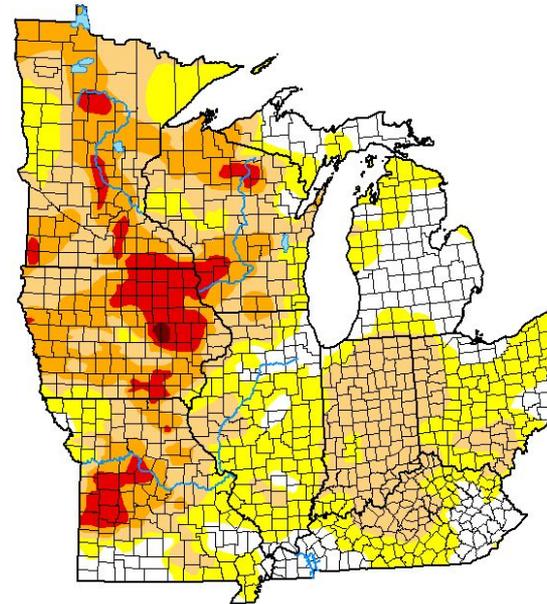


U.S. Drought Monitor

Link to the [latest U.S. Drought Monitor](#) for the Midwest and Ohio Valley

- Drought conditions have worsened over southern Indiana and central Kentucky.
- Drought intensity and Extent
 - D1 (Moderate Drought): South central Indiana and most of north central Kentucky
 - D0: (Abnormally Dry): South central Kentucky and portions of east central Kentucky

U.S. Drought Monitor Midwest



September 26, 2023
(Released Thursday, Sep. 28, 2023)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	16.82	83.18	54.98	23.81	6.21	0.13
Last Week 09-19-2023	21.93	78.07	50.38	30.36	11.53	1.41
3 Months Ago 06-27-2023	9.26	90.74	64.71	24.65	3.52	0.00
Start of Calendar Year 01-03-2023	43.26	56.74	28.01	7.67	1.00	0.06
Start of Water Year 09-27-2022	53.19	46.81	19.89	5.78	1.25	0.27
One Year Ago 09-27-2022	53.19	46.81	19.89	5.78	1.25	0.27

Intensity:

None	D2 Severe Drought
D0 Abnormally Dry	D3 Extreme Drought
D1 Moderate Drought	D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

Author:

Richard Heim
NCEI/NOAA



droughtmonitor.unl.edu

Image Caption: U.S. Drought Monitor valid [8am EDT September 28].

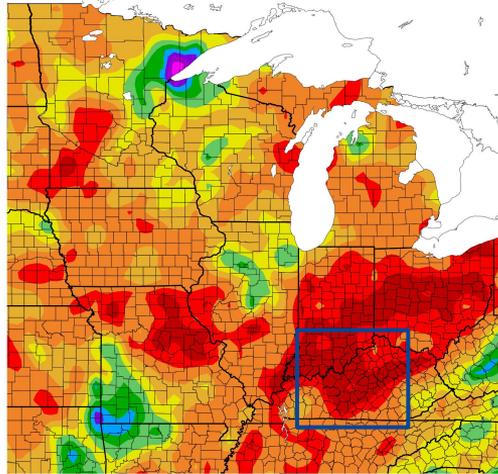




Precipitation

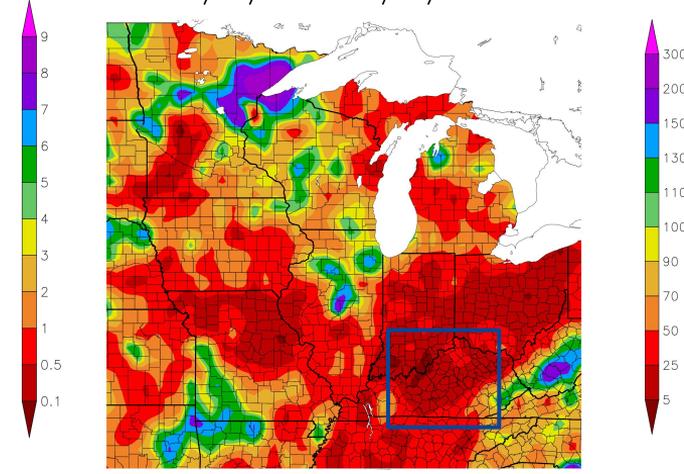
- Precipitation over southern Indiana and central Kentucky has been well below normal over the past 30 days.

Precipitation (in)
8/29/2023 – 9/27/2023



Generated 9/28/2023 at HPRCC using provisional data.

Percent of Normal Precipitation (%)
8/29/2023 – 9/27/2023



NOAA Regional Climate Centers 23 at HPRCC using provisional data.

NOAA Regional Climate

Image Captions:
Left - Precipitation Amount for the Midwest and Ohio Valley
Right - Percent of Normal Precipitation for the Midwest and Ohio Valley
Data Courtesy Midwest Regional Climate Center.
Data over the past 30 days ending September 27, 2023





Summary of Impacts

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

Hydrologic Impacts

- Streamflows are running below normal for several locations across central Kentucky and southern Indiana. Ponds are low.

Agricultural Impacts

- Pastures, fall seeding, corn and soybeans are affected by the dry conditions.

Fire Hazard Impacts

- Observed Fire Danger Class remains “Low” at this time. Some county burn bans are in effect in southern Indiana and central Kentucky.

Other Impacts

- Early dropping of leaves in some locations.

Mitigation Actions

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



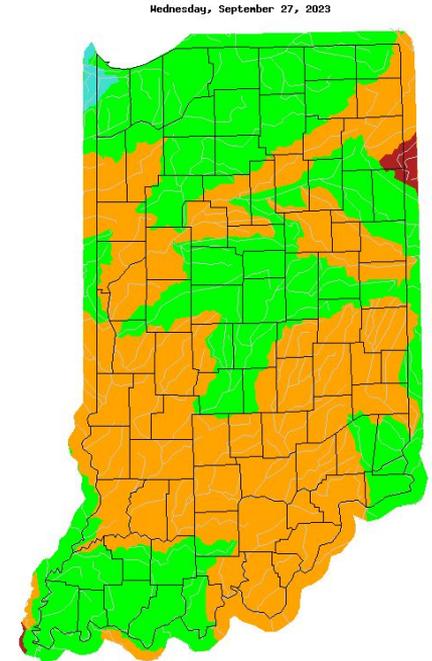


Hydrologic Conditions and Impacts

- Recent low rainfall amounts have resulted in below normal streamflows for portions of central Kentucky and southern Indiana.



USGS 7 day average streamflow HUC map valid September 27, 2023

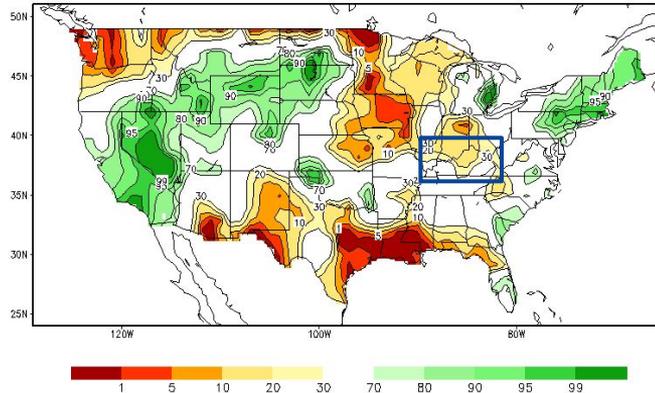




Agricultural Impacts

- Soil moisture has dropped to below 50th percentile for large portions of southern Indiana and central Kentucky.
- Crop Moisture Index shows most of the area remaining Slightly Dry or Favorably Moist, with a small area in southern Indiana classified as Abnormally Dry.

Calculated Soil Moisture Ranking Percentile
SEP 27, 2023



Crop Moisture Index by Division
Weekly Value for Period Ending SEP 23, 2023
Short Term Need vs. Available Water in a Shallow Soil Profile

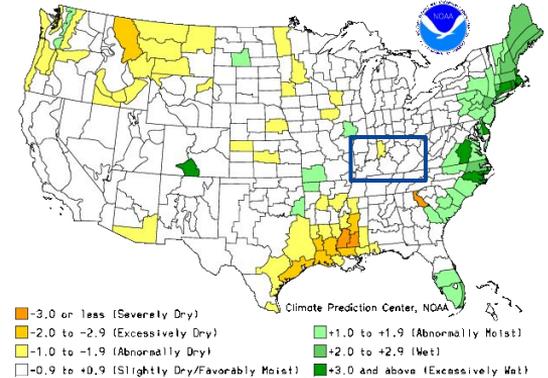


Image Captions:

Left: CPC Calculated [Soil Moisture Ranking Percentile](#) valid [April 20, 2023]

Right: [Crop Moisture Index by Division](#). Weekly value for period ending September 27, 2023





Fire Hazard Impacts

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

- Observed Fire Danger Class remains “Low” at this time.
- Several counties in southern Indiana and central Kentucky have implemented burn bans. Please use links below for more information.

Latest Kentucky burn ban status available [here](#).

Latest Indiana burn ban map available [here](#).

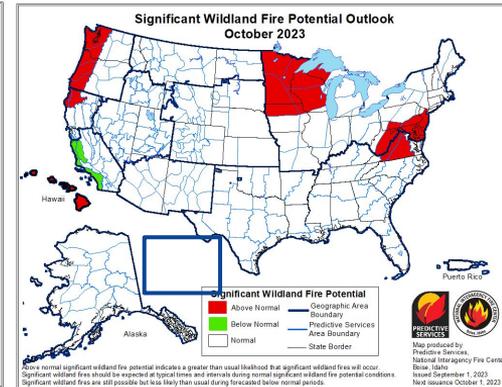
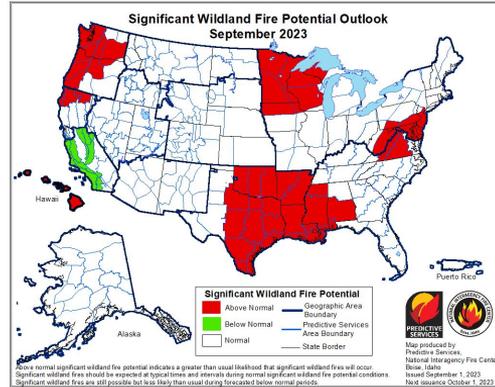


Image Caption: [Significant Wildland Fire Potential Monthly Outlook](#) for September 2023 & October 2023





Seven Day Precipitation Forecast

- Storms on Thursday September 28th have provided much need rainfall to the region.
- The rest of the seven day forecast remains mostly dry as an upper ridge builds over the Mississippi Valley.
- A weather system late next week looks to bring the next chance for light rain.

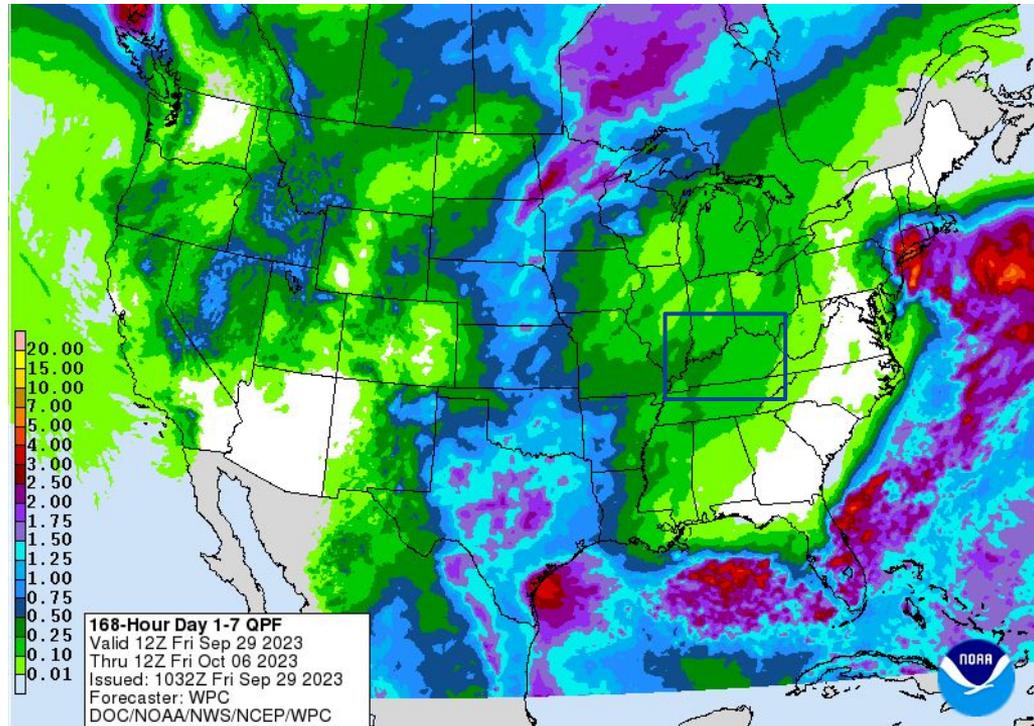


Image Caption: Weather Prediction Center [7-day precipitation forecast](#) valid [Friday September 29 to Friday October 6]



Long-Range Outlooks

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

- Temperatures over the next month will likely be above normal.
- Precipitation over the next month is leaning slightly above normal.

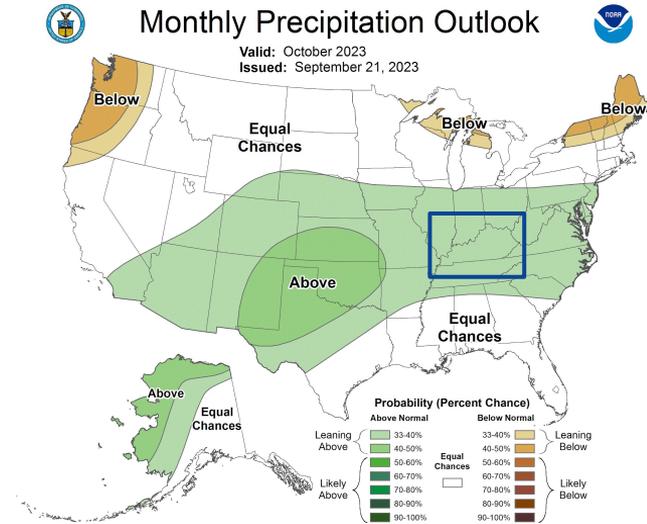
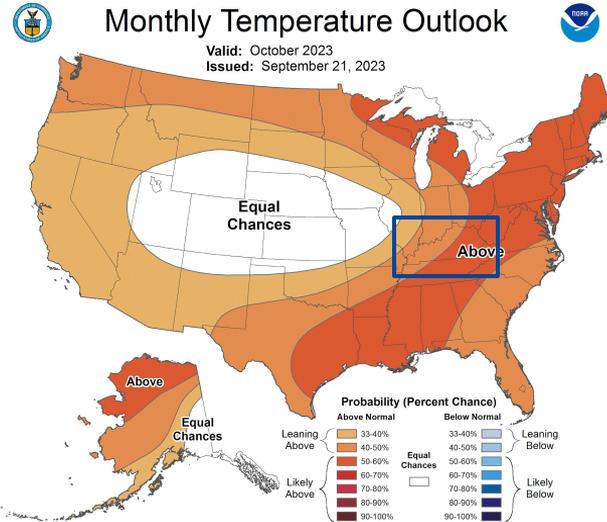


Image Captions:

Left - [Climate Prediction Center Monthly Temperature Outlook](#),

Right - [Climate Prediction Center Monthly Precipitation Outlook](#).

Valid October 2023





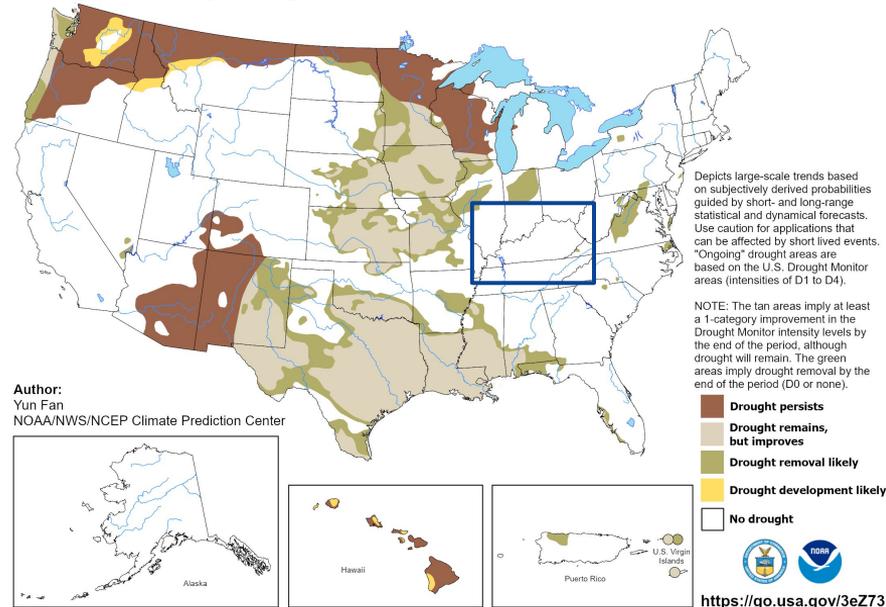
Drought Outlook

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

- No major drought concerns are currently expected over the next three months.

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

Valid for September 21 - December 31, 2023
Released September 21, 2023



Links to the latest:

[Climate Prediction Center Monthly Drought Outlook](#)

[Climate Prediction Center Seasonal Drought Outlook](#)

Image Caption:

Climate Prediction Center Monthly Drought Outlook Released
September 21, 2023 valid for September 21 - December 31, 2023



National Oceanic and
Atmospheric Administration

U.S. Department of Commerce

National Weather Service
Louisville