

Drought Information Statement for Northern IN, Southern MI, Northwest OH Valid October 5, 2023

Issued By: NWS Northern Indiana Contact Information: nws.northernindiana@noaa.gov 574-834-1104

- This product will be updated November 2nd 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/iwx/DroughtInformationStatement for previous statements.



Department of Commerce // National Oceanic and Atmospheric Administration



Link to the latest U.S. Drought Monitor for northern Indiana, southern Michigan, and northwest Ohio

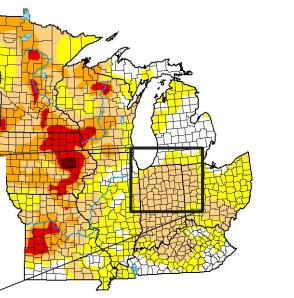
• Abnormally Dry and Moderate Drought Conditions Present

- Drought intensity and Extent
 - D1 (Moderate Drought): Has been expanded across LaPorte, St Joseph and Starke counties and now encompasses most of NW Ohio.
 - D0: (Abnormally Dry): Now encompasses all of the forecast area except Berrien and Cass, MI.





October 3, 2023 (Released Thursday, Oct. 5, 2023) Valid 8 a.m. EDT





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



Brad Pugh CPC/NOAA



droughtmonitor.unl.edu

nage Caption: U.S. Drought Monitor valid 8am EDT September 26th. NWS Northern Indiana Forecast area (left). Midwest region (right).



Recent Change in Drought Intensity

Link to the latest 4-week change map for northern Indiana, southern Michigan, and northwest Ohio

- Four Week Drought Monitor Class Change.
 - Drought Worsened: Over nearly all of northwest Ohio, northern Indiana, and far southern Michigan.

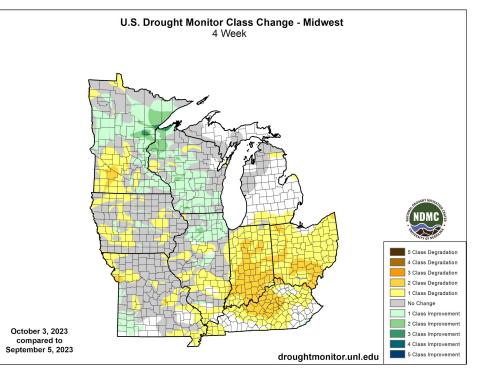
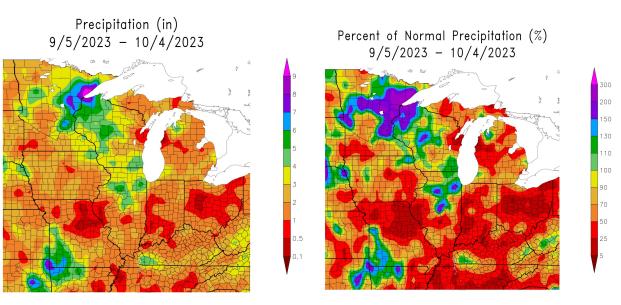


Image Caption: U.S. Drought Monitor 4-week change map valid 8am EDT September 26th.



Precipitation

- 30-day precipitation totals through October 4th indicated much of the area east of I-69 and south of US-30 observed less than 50% of normal precipitation.
- A rapid deterioration of vegetation continues



Generated 10/5/2023 at HPRCC using provisional data.

NOAA Regional Climate Centers 23 at HPRCC using provisional data.

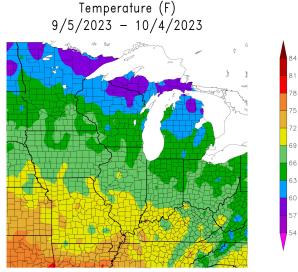
NOAA Regional Climate Center

Image Captions: Left: 30-day Precipitation Amount for the Midwest Right: 30-day Percent of Normal Precipitation for the Midwest Data Courtesy High Plains Regional Climate Center.

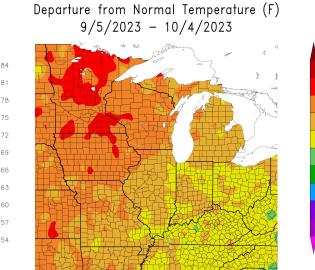


Temperature

- Temperatures leaned normal to above normal for the 30-day period ending September 13th.
- Temperatures likely played a role in the latest drought conditions with warmth and dryness likely evaporating further soil moisture.







NOAA Regional Climate Centers 323 at HPRCC using provisional data.

NOAA Regional Climate Centers

Image Captions: Left: 30-day Average Temperature Right: 30-day Departure from Normal Temperature Data Courtesy High Plains Regional Climate Center.

National Weather Service Northern Indiana



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

Hydrologic Impacts

• Pond and creek levels are very low

Agricultural Impacts

- Very dry and cracked soil
- Plants are dormant

Fire Hazard Impacts

• Concern of field fires among harvest operations

Other Impacts

• There are no other known impacts at this time

Mitigation Actions

• None reported



Hydrologic Conditions and Impacts

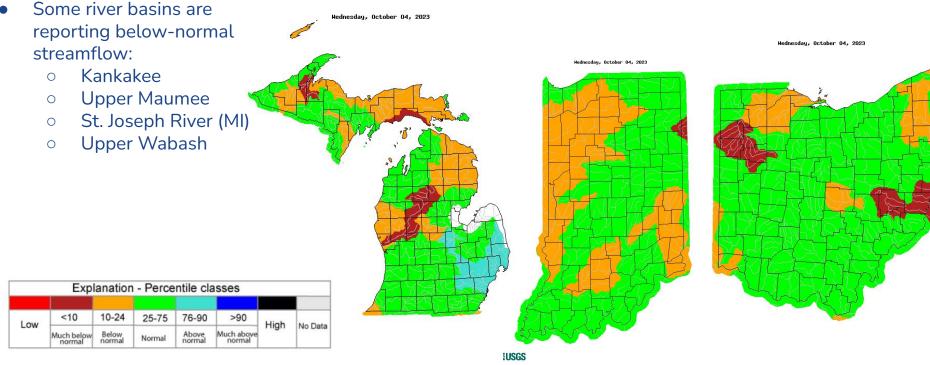


Image Caption: USGS 7 day average streamflow HUC map valid 09/27/2023



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- Beneficial rain has not fallen across the area since 9/28
- Rain surpassing 1 inch is most likely west of I-69 today into the weekend.
- Some moderation in the drought may be occur with the expanded cloud cover and chances for rain into the weekend.
- A variable forecast in the 6 to 10 day range may bring a few more chances for rain and average temperatures around normal

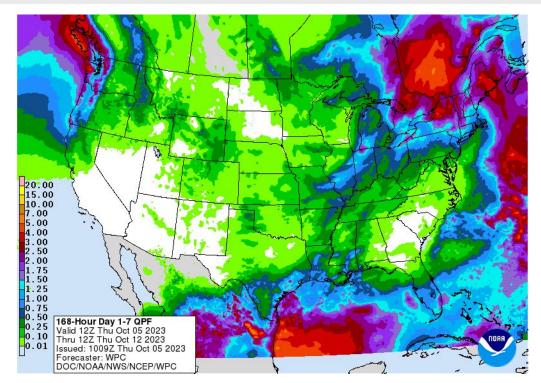


Image Caption: Weather Prediction Center <u>7-day precipitation forecast</u> valid October 5 to October 12.



Long-Range Outlooks

The latest monthly and seasonal outlooks can be found on the CPC homepage

- The forecast for the month of October favors above normal temperatures and below normal precipitation.
- This forecast is mainly driven by long-term climate trends as well as model guidance
- This outlook will be updated again on October 31st

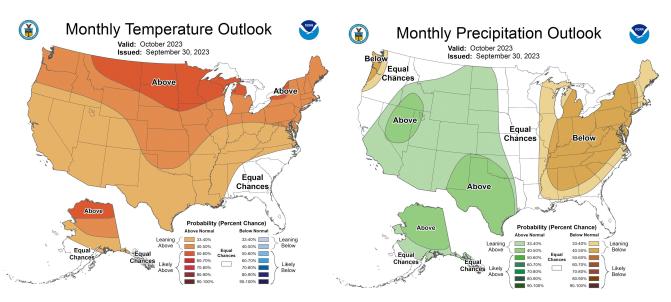


Image Captions:

Left - <u>Climate Prediction Center Monthly Temperature Outlook.</u> Right - <u>Climate Prediction Center Monthly Precipitation Outlook.</u> Valid October 2023



Drought Outlook

The latest monthly and seasonal outlooks can be found on the CPC homepage

• Issued on September 30th, this drought outlook through December suggests that drought conditions will persist through the fall and into the start of winter.

U.S. Seasonal Drought Outlook Valid for October 1 - December 31, 2023 Drought Tendency During the Valid Period Released September 30, 2023 Consistency adjustment based on Monthly Drought Outlook for October 2023 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). Author: Yun Fan **Drought persists** NOAA/NWS/NCEP Climate Prediction Center Drought remains, but improves Drought removal likely Drought development likely . 🕥 No drought https://go.usa.gov/3eZ73

Links to the latest: <u>Climate Prediction Center Monthly Drought Outlook</u> <u>Climate Prediction Center Seasonal Drought Outlook</u>



National Oceanic and Atmospheric Administration U.S. Department of Commerce Image Caption:

Climate Prediction Center Seasonal Drought Outlook Released September 21st, 2023 valid through December 2023