

Drought Information Statement

For East Tennessee, Southwest Virginia, and Southwest North Carolina

Valid October 12, 2023

Issued By: WFO Morristown, TN

Contact Information: sr-mrx.webmaster@noaa.gov

- This product will be updated in the next week 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/mrx/DroughtInformationStatement for previous statements.



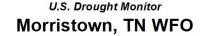


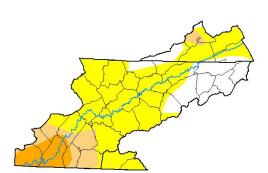




Link to the latest U.S. Drought Monitor for the NWS Morristown CWA

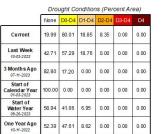
- DROUGHT CONDITIONS HEADI INF/KEY MESSAGE
- Drought intensity and Extent
 - D4 (Exceptional Drought): None.
 - D3 (Extreme Drought): None.
 - D2 (Severe Drought): None.
 - D1 (Moderate Drought): Wise, VA and Chattanooga to Marion/southern Sequatchie Counties.
 - D0: (Abnormally Dry): Places along and west of I-75 and places around Wise, VA.





October 10, 2023

(Released Thursday, Oct. 12, 2023) Valid 8 a.m. EDT





Drought Monitor, go to https://droughtmonitor.unl.edu/About.asp.

Brad Pugh CPC/NOAA









droughtmonitor.unl.edu

Image Caption: U.S. Drought Monitor valid 8am EDT October 10th.

Recent Change in Drought Intensity

Link to the latest 4-week change map for the NWS Morristown CWA

- Four Week Drought Monitor Class Change.
 - Drought Worsened: Most places across southeast and central east Tennessee, Cumberland Plateau, and Cherokee and Clay counties of North Carolina
 - No Change: Much of southwest Virginjia and northeast Tennessee
 - Drought Improved: Lee County, Virginia

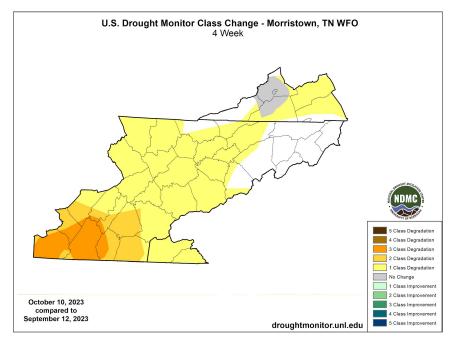
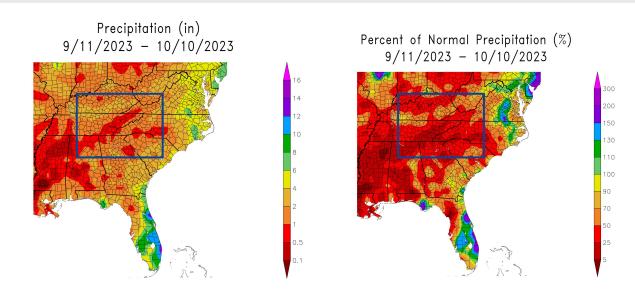


Image Caption: U.S. Drought Monitor 4-week change map valid October 10th.



 Notably drier than normal conditions have been occurring across the region.



Generated 10/11/2023 at HPRCC using provisional data.

NOAA Regional Climate Centers 023 at HPRCC using provisional data.

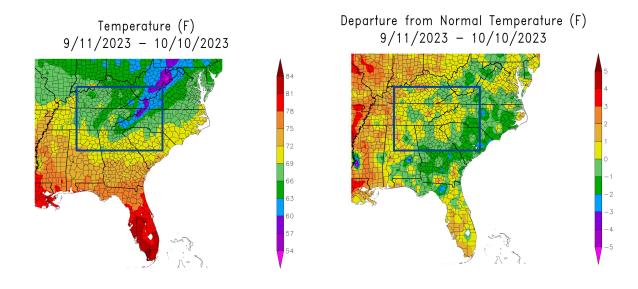
NOAA Regional Climate Ce

Image Captions:

Left - Precipitation Amount
Right - Percent of Normal Precipitation
Data Courtesy High Plains Regional Climate Center.
Data over the past 30 days ending October 10, 2023



 Slightly warmer than normal conditions have occurred across much of the area.



Generated 10/11/2023 at HPRCC using provisional data.

NOAA Regional Climate Centers 2023 at HPRCC using provisional data.

NOAA Regional Climate Centers

Image Captions:
Left - Average Temperature
Right - Departure from Normal Temperature
Data Courtesy High Plains Regional Climate Center.
Data over the past 30 days ending October 10, 2023



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

Hydrologic Impacts

Stream flows have been low

Agricultural Impacts

• There are no known impacts at this time

Fire Hazard Impacts

Tennessee Forestry reported a small increase in small fires across the area.

Other Impacts

• Stay tuned for future updates as drought is likely to worsen in many areas

Mitigation Actions

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





Hydrologic Conditions and Impacts

 Streamflows have been below normal to much below normal.

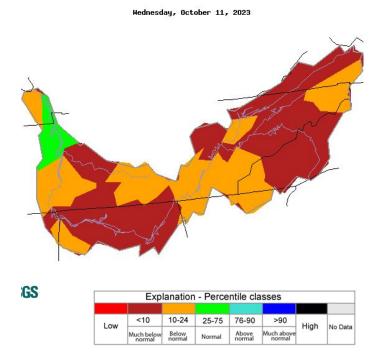
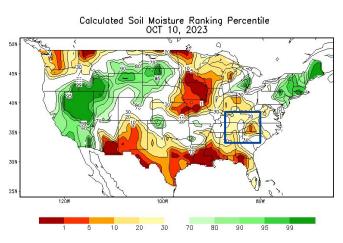


Image Caption: USGS 7 day average streamflow HUC map valid 10/11/2023





 Most of the conditions are near normal but soil moisture is dry.



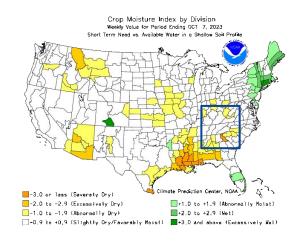


Image Captions:

Left: CPC Calculated Soil Moisture Ranking
Percentile valid Oct 10, 2022

Percentile valid Oct 10, 2023

Right: Crop Moisture Index by Division. Weekly

value for period ending Oct 7, 2023



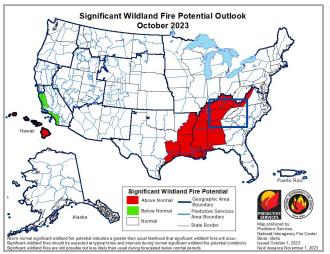
Link to Wildfire Potential Outlooks from the National Interagency Coordination Center.

 Fire conditions are slowly getting worse across the area.

Latest TN Burn Ban map available <u>here.</u>

Latest VA Burn Ban map available <u>here.</u>

Latest NC Burn Ban information available <u>here</u>.



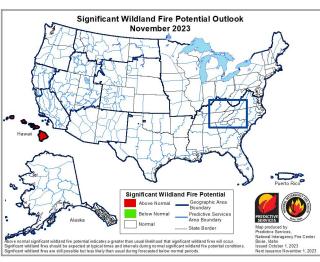


Image Caption: Significant Wildland Fire for October and November 2023





Seven Day Precipitation Forecast

 Some light precipitation is expected during the next 7 days.

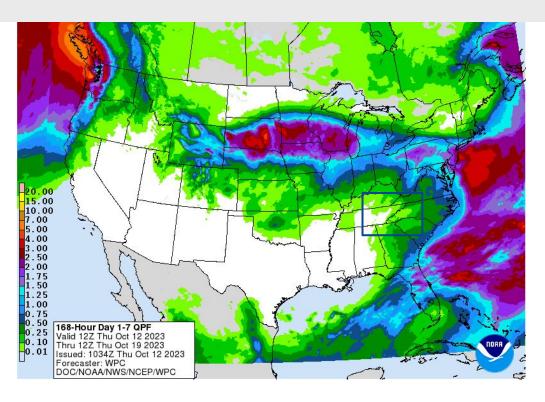


Image Caption: Weather Prediction Center <u>7-day precipitation forecast</u> valid Sunday October 12 to Saturday October 19



Rapid Onset Drought Outlook

Links to the latest Climate Prediction Center 8 to 14 day Temperature Outlook and Precipitation Outlook.

 Gradual worsening drought conditions are expected for much of the area.

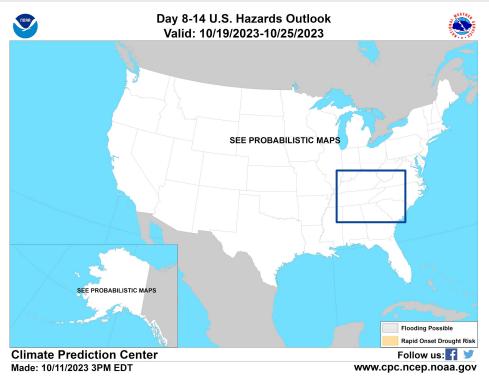


Image Caption: Days 8 to 14 U.S. Hazards Outlook Valid October 19th to 25th



Long-Range Outlooks

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

 Above normal temperatures and below normal precipitation are favored over the next month.

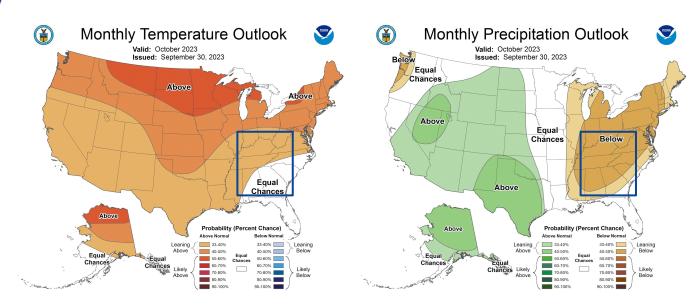


Image Captions:

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

 Drought development is likely for much of East Tennessee.

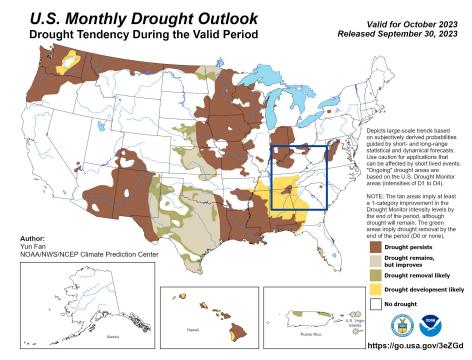


Image Caption:

Climate Prediction Center Monthly Drought Outlook Released September 30, 2023 valid for October 2023



Climate Prediction Center Monthly Drought Outlook

Climate Prediction Center Seasonal Drought Outlook

Links to the latest: