

Drought Information Statement

For East Tennessee, Southwest Virginia, and Southwest North Carolina

Valid October 19, 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.







U.S. Drought Monitor

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

- Drought conditions continue to worsen across the Tennessee Valley and Southern Appalachians.
- **Drought intensity and Extent**
 - **D4** (Exceptional Drought): None.
 - D3 (Extreme Drought): None.
 - **D2** (Severe Drought): southern plateau and far southern valley.
 - **D1 (Moderate Drought):** Wise, VA and central valley through southwest NC.
 - **D0: (Abnormally Dry):** Entire area.

U.S. Drought Monitor Morristown, TN WFO



October 17, 2023

(Released Thursday, Oct. 19, 2023)

Valid 8 a.m. EDT
Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Сиптепт	0.05	99.95	44.52	17.59	0.00	0.00
Last Week 10-10-2023	19.99	80.01	18.85	8.35	0.00	0.00
3 Month's Ago 07-18-2023	82.85	17.15	0.00	0.00	0.00	0.00
Start of Calendar Year 01-03-2023	100.00	0.00	0.00	0.00	0.00	0.00
Start of Water Year 09-26-2023	58.94	41.06	6.95	0.00	0.00	0.00
One Year Ago	42.83	57.17	38.05	5.84	0.00	0.00

nt	ensity:	
	None	D2 Severe Drought
	D0 Abnormally Dry	D3 Extreme Drought
	D1 Moderate Drought	D4 Exceptional Droug

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.asp.

Rocky Bilotta NCEI/NOAA









droughtmonitor.unl.edu

Image Caption: U.S. Drought Monitor valid 8am EDT October 17th.

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: Portions of SW VA.
 - Drought Improved: None.

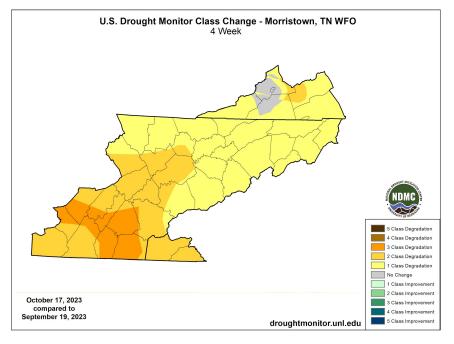
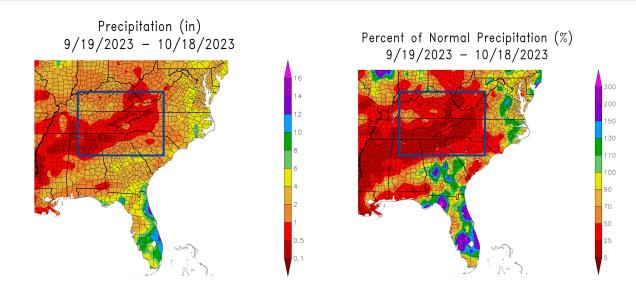


Image Caption: U.S. Drought Monitor 4-week change map valid October 17th.



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



Generated 10/19/2023 at HPRCC using provisional data.

NOAA Regional Climate Centers 023 at HPRCC using provisional data.

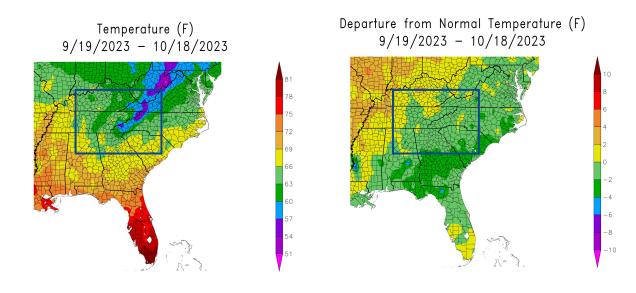
NOAA Regional Climate Ce

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 18, 2023



 Temperatures have been near normal during the past 4 weeks.



Generated 10/19/2023 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 18, 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. Soil moisture is lower than normal.

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 for most areas.

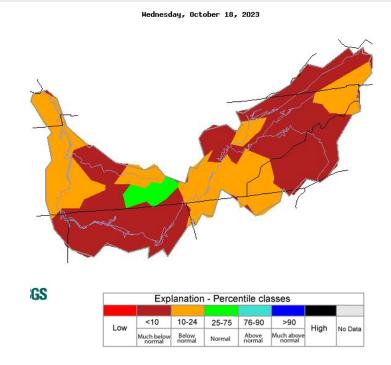
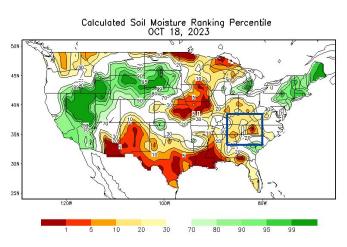


Image Caption: USGS 7 day average streamflow HUC map valid 10/18/2023



 Soil moisture is drier than normal.



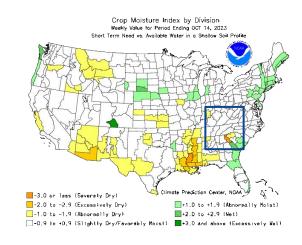


Image Captions:

Left: CPC Calculated <u>Soil Moisture Ranking</u> <u>Percentile</u> valid Oct 18, 2023

Right: Crop Moisture Index by Division. Weekly





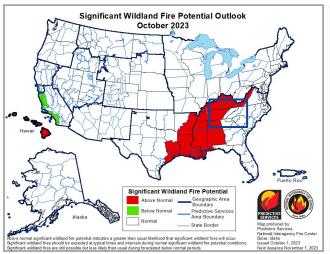
Link to Wildfire Potential Outlooks from the National Interagency Coordination Center.

 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>.



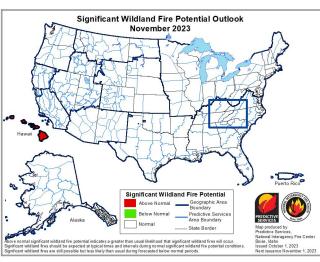


Image Caption: Significant Wildland Fire for October and November 2023





Seven Day Precipitation Forecast

- Some light precipitation is expected during the next 7 days – mainly on October 19 and 20.
 - Overall amounts will be low with little impact on drought improvement.
 - Highest precipitation amounts will be across the higher elevations.

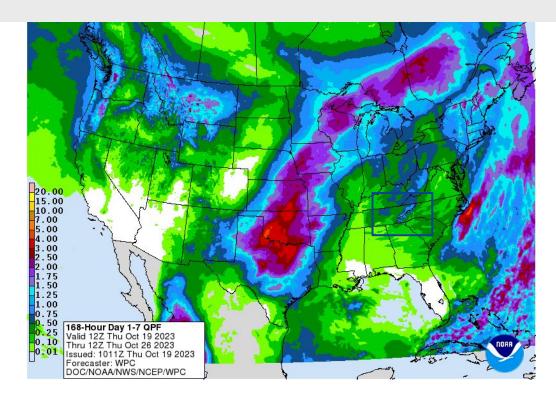


Image Caption: Weather Prediction Center <u>7-day precipitation forecast</u> valid October 19 to October 26.





Rapid Onset Drought Outlook

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

No hazards posted.

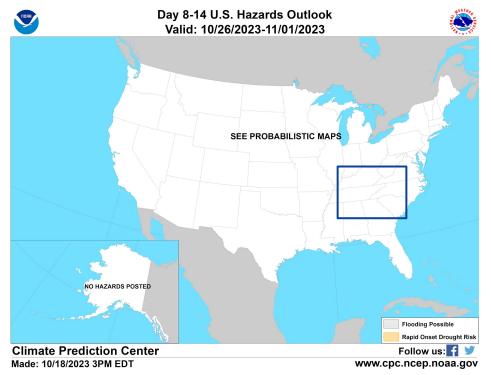


Image Caption:

Days 8 to 14 U.S. Hazards Outlook Valid October 26th to November 1st



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.

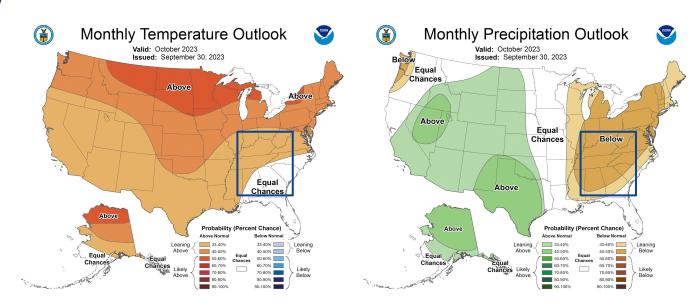


Image Captions:

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 to continue this month.

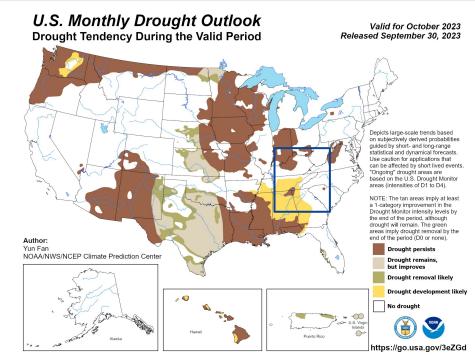
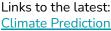


Image Caption:

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



<u>Climate Prediction Center Monthly Drought Outlook</u> Climate Prediction Center Seasonal Drought Outlook

