



# Drought Information Statement

## For East Tennessee, Southwest Virginia, and Southwest North Carolina

Valid September 30, 2023

Issued By: WFO Morristown, TN

Contact Information: [sr-mrx.webmaster@noaa.gov](mailto: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.



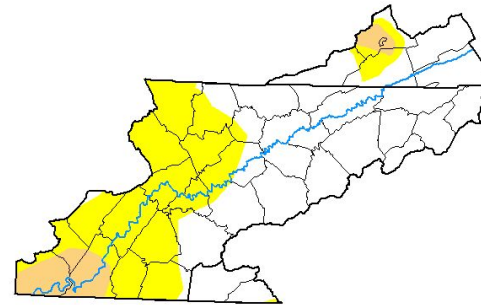


# U.S. Drought Monitor

Link to the [latest U.S. Drought Monitor](#) for the NWS Morristown CWA

- DROUGHT CONDITIONS HEADLINE/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.

## U.S. Drought Monitor Morristown, TN WFO



**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
<b>Current</b>	58.94	41.06	6.95	0.00	0.00	0.00
<b>Last Week</b> 09-19-2023	89.75	10.24	1.25	0.00	0.00	0.00
<b>3 Months Ago</b> 06-27-2023	65.67	34.33	0.57	0.00	0.00	0.00
<b>Start of Calendar Year</b> 01-02-2023	100.00	0.00	0.00	0.00	0.00	0.00
<b>Start of Water Year</b> 09-27-2022	80.68	19.32	0.00	0.00	0.00	0.00
<b>One Year Ago</b> 09-27-2022	80.68	19.32	0.00	0.00	0.00	0.00

### Intensity

- None
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme 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](https://droughtmonitor.unl.edu)

Image Caption: U.S. Drought Monitor valid 8am EDT September 26th.





# Recent Change in Drought Intensity

Link to the latest [4-week change map](#) for [region]

- Four Week Drought Monitor Class Change.
  - Drought Worsened: Most places near and west of I-75
  - No Change: Eastern half of East Tennessee and southwest North Carolina
  - Drought Improved: Lee County, Virginia

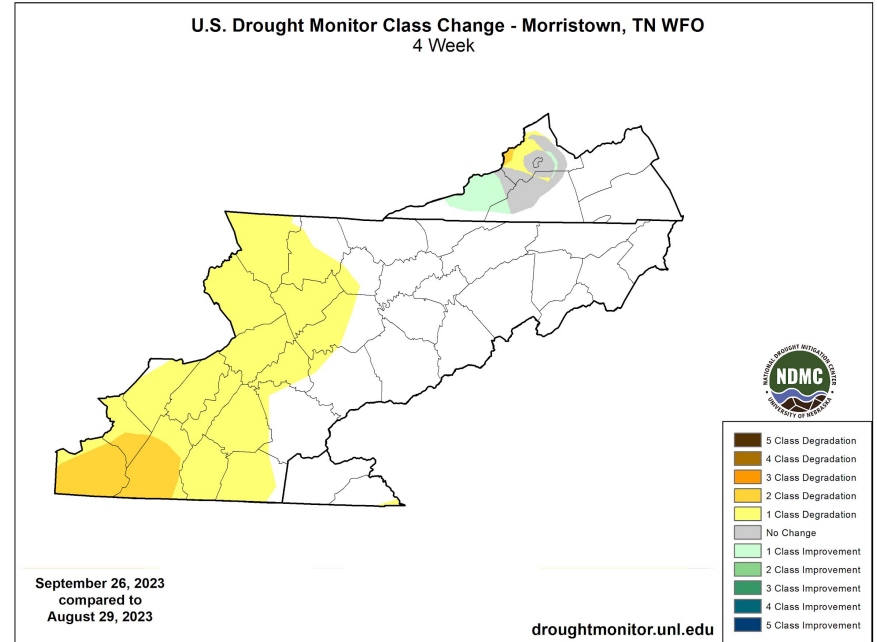


Image Caption: U.S. Drought Monitor 4-week change map valid September 26.

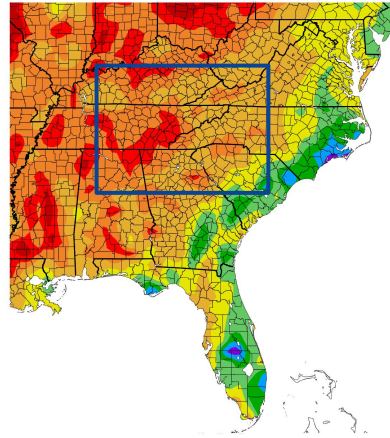




# Precipitation

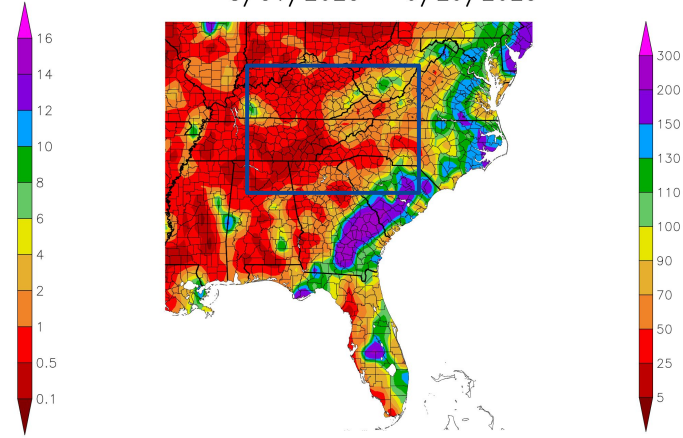
- Notably drier than normal conditions have been occurring across the region.

Precipitation (in)  
8/31/2023 – 9/29/2023



Generated 9/30/2023 at HPRCC using provisional data.

Percent of Normal Precipitation (%)  
8/31/2023 – 9/29/2023



NOAA Regional Climate Centers 23 at HPRCC using provisional data.

NOAA Regional Climate

Image Captions:  
Left - Precipitation Amount for [area]  
Right - Percent of Normal Precipitation for [area]  
Data Courtesy High Plains Regional Climate Center.  
Data over the past 30 days ending September 29, 2023

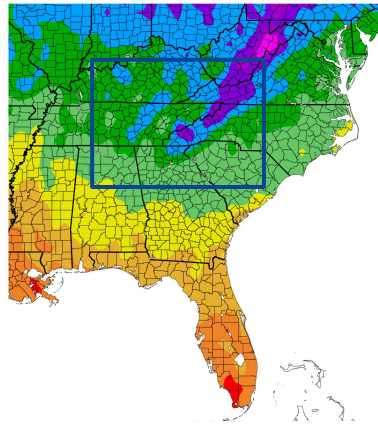




# Temperature

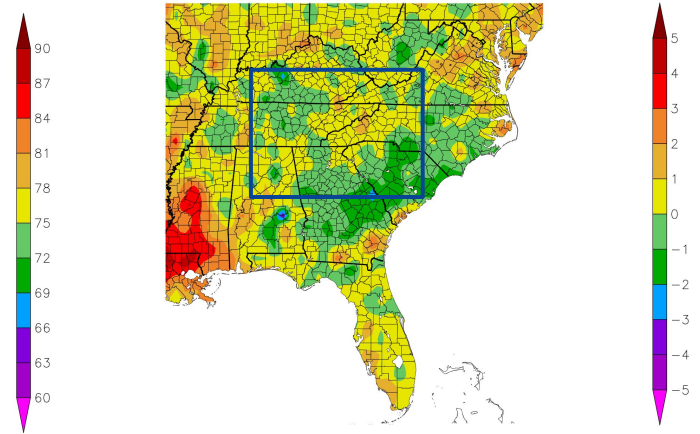
- Warmer than normal conditions have been occurring.

Temperature (F)  
8/31/2023 - 9/29/2023



Generated 9/30/2023 at HPRCC using provisional data.

Departure from Normal Temperature (F)  
8/31/2023 - 9/29/2023



NOAA Regional Climate Centers <sup>2023</sup> 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 September 29, 2023





# Summary of Impacts

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

## Hydrologic Impacts

- There are no known impacts at this time

## Agricultural Impacts

- There are no known impacts at this time

## Fire Hazard Impacts

- There are no known impacts at this time

## 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

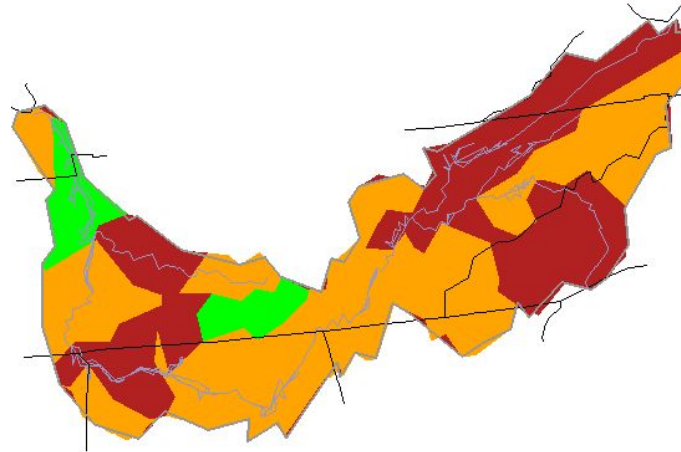




# Hydrologic Conditions and Impacts

- Streamflows have been below normal to much below normal.

Friday, September 29, 2023



GS

Explanation - Percentile classes							
Low	<10	10-24	25-75	76-90	>90	High	No Data
	Much below normal	Below normal	Normal	Above normal	Much above normal		

Image Caption: USGS 7 day average streamflow HUC map valid 09/29/2023

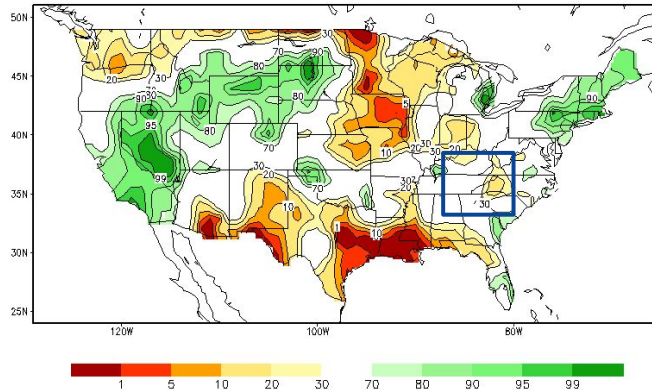




# Agricultural Impacts

- Most of the conditions are near normal.

Calculated Soil Moisture Ranking Percentile  
SEP 29, 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

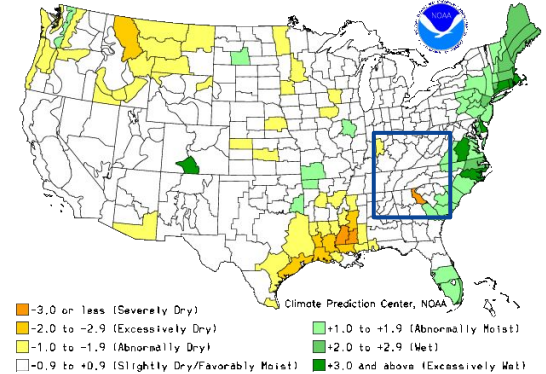


Image Captions:

Left: CPC Calculated [Soil Moisture Ranking Percentile](#) valid Sep 29, 2023

Right: [Crop Moisture Index by Division](#). Weekly value for period ending Sep 23, 2023







# Fire Hazard Impacts

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

- Fire conditions are near normal.

Latest TN Burn Ban map available [here](#).

Latest VA Burn Ban map available [here](#).

Latest NC Burn Ban information available [here](#).

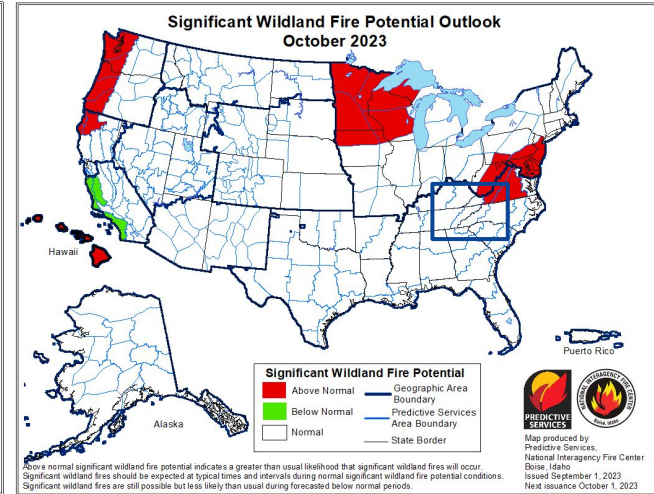
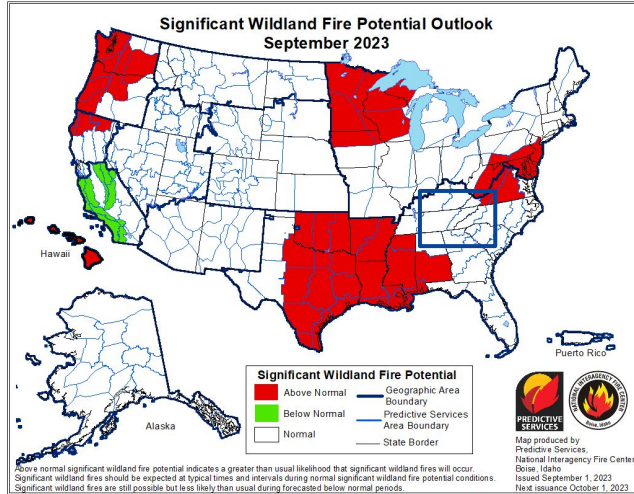


Image Caption: [Significant Wildland Fire Potential Monthly Outlook](#) for September 2023





# Seven Day Precipitation Forecast

- Some light precipitation is expected during the next 7 days.

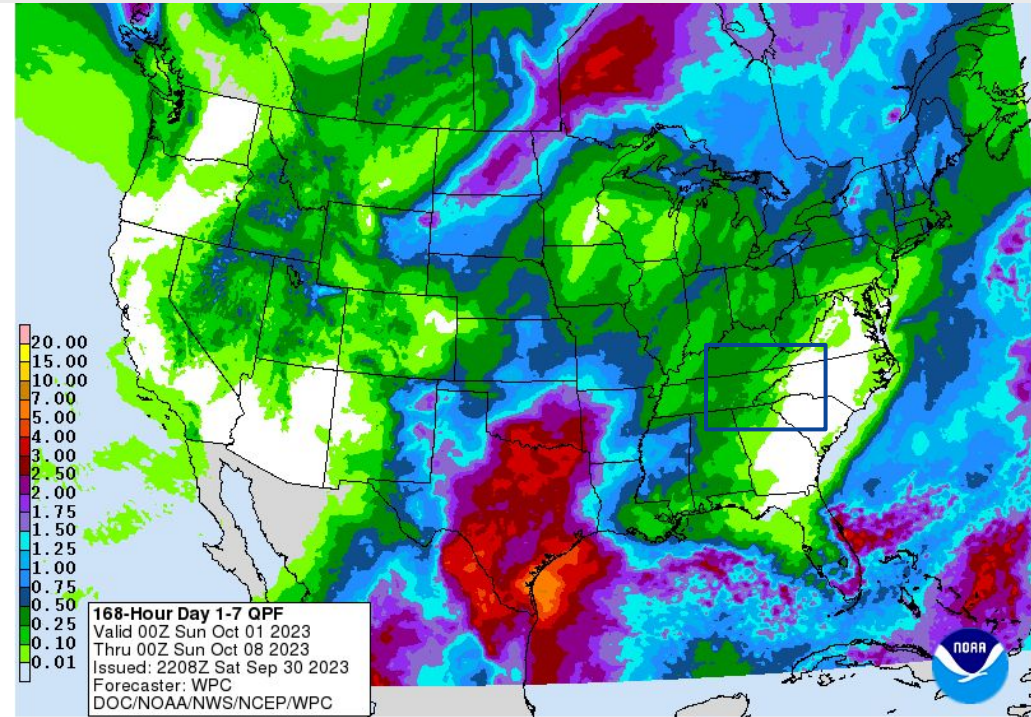


Image Caption: Weather Prediction Center [7-day precipitation forecast](#) valid Sunday October 1 to Saturday October 8





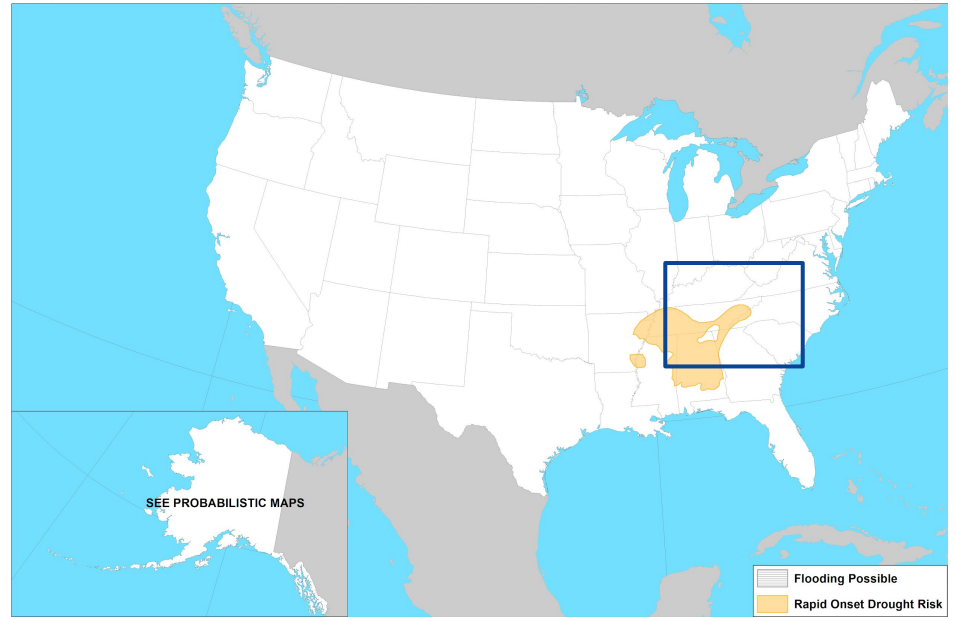
# Rapid Onset Drought Outlook

Links to the latest Climate Prediction Center 8 to 14 day [Temperature Outlook](#) and [Precipitation Outlook](#).

- Rapid onset drought conditions are possible for much of the Tennessee Valley.



Day 8-14 U.S. Hazards Outlook  
Valid: 10/07/2023-10/13/2023



Climate Prediction Center  
Made: 09/29/2023 3PM EDT

Follow us:   
[www.cpc.ncep.noaa.gov](http://www.cpc.ncep.noaa.gov)

Image Caption:  
[Days 8 to 14 U.S. Hazards Outlook](#) Valid October 7th to 13th





# 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.

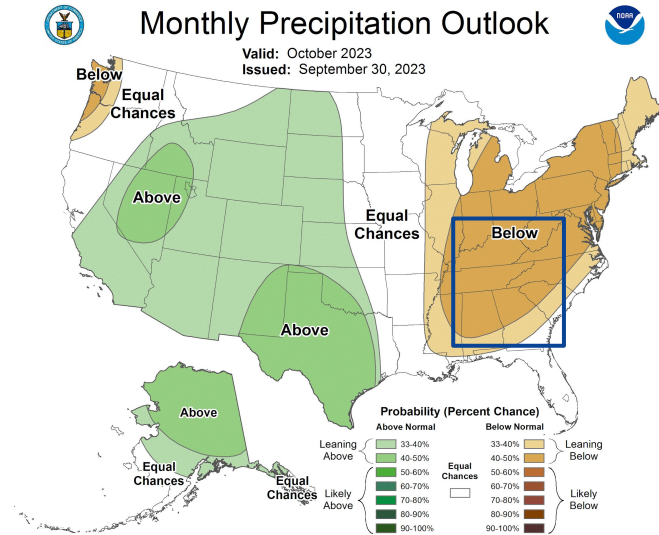
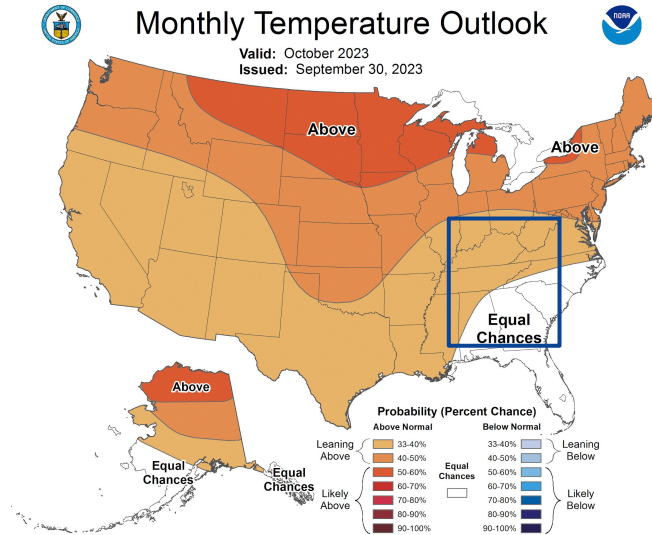


Image Captions:

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

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

Valid October 2023





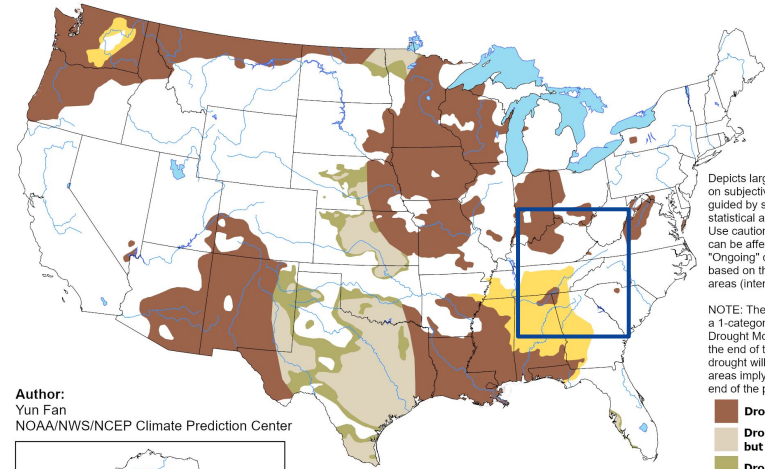
# Drought Outlook

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

- Drought development is likely for much of East Tennessee near and west of the Knoxville area.

## U.S. Monthly Drought Outlook Drought Tendency During the Valid Period

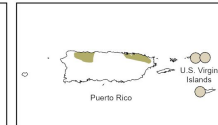
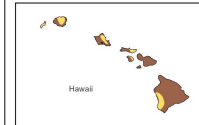
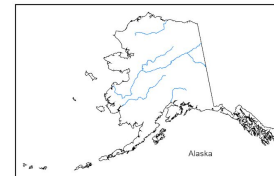
Valid for October 2023  
Released September 30, 2023



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  
NOAA/NWS/NCEP Climate Prediction Center



- Drought persists
- Drought remains, but improves
- Drought removal likely
- Drought development likely
- No drought



<https://go.usa.gov/3eZGd>

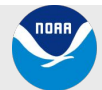
Image Caption:

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

Links to the latest:

[Climate Prediction Center Monthly Drought Outlook](#)

[Climate Prediction Center Seasonal Drought Outlook](#)



National Oceanic and Atmospheric Administration

U.S. Department of Commerce

National Weather Service  
Morristown, TN