

# Drought Information Statement for Eastern WV, Central and Western MD, DC, & northern and NW VA Valid July 18, 2024

Issued By: NWS Baltimore/Washington Contact Information: lwx-report@noaa.gov

- This product will be updated July 25, 2024 or sooner if drought conditions change significantly.
- Please see all currently available products at <a href="https://drought.gov/drought-information-statements">https://drought.gov/drought-information-statements</a>.
- Please visit https://https://www.weather.gov/lwx/DroughtInformationStatement for previous statements.





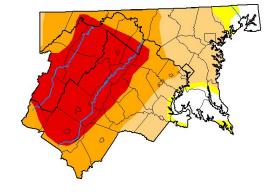




Link to the <u>latest U.S. Drought Monitor</u> for [region]

- EXTREME DROUGHT SPREADS ACROSS THE SHENANDOAH VALLEY & ALLEGHENY HIGHLANDS REGION.
- Drought intensity and Extent
  - D3 (Extreme Drought): Over 35 percent of the forecast area is now in extreme drought. This includes the entire Shenandoah Valley, eastern WV Highlands, and southern Allegany Co. MD.
  - D2 (Severe Drought): Over 65 percent of the area remains in severe drought. This includes much of northern and central Virginia as well as western MD and far tip of the eastern WV Panhandle.
  - D1 (Moderate Drought): This includes central MD and portion of the VA Piedmont/northern neck.
  - D0: (Abnormally Dry): This includes parts of northeast MD and southern MD.

# U.S. Drought Monitor Baltimore, MD/ Washington, DC WFO



#### July 16, 2024

(Released Thursday, Jul. 18, 2024) Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	7.32	92.68	89.18	65.96	35.69	0.00
Last Week 07-09-2024	2.17	97.83	80.96	62.68	0.00	0.00
3 Month's Ago 04-16-2024	100.00	0.00	0.00	0.00	0.00	0.00
Start of Calendar Year	30.93	69.07	32.89	8.96	0.00	0.00
Start of Water Year 09-26-2023	29.91	70.09	39.52	13.18	0.00	0.00
One Year Ago	34.50	65.50	26.31	5.60	0.00	0.00

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

Author: Brian Fuch

National Drought Mitigation Center







droughtmonitor.unl.edu

Image Caption: U.S. Drought Monitor valid 8am EDT July 16th.

### Recent Change in Drought Intensity

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

- Four Week Drought Monitor Class Change.
  - Drought Worsened: Drought conditions worsened for most of the region with parts of the Shenandoah River Valley and Potomac Highlands observing the largest deterioration in drought conditions

 Drought Improved: One category improvement in drought conditions occurred over parts of southern MD and King George Counties

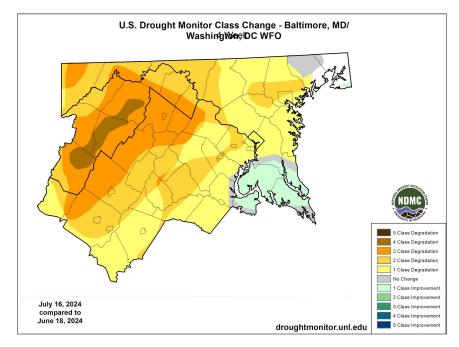
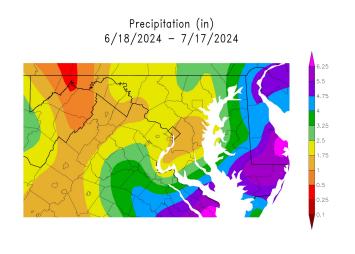


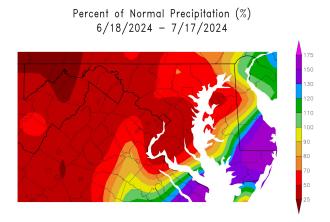
Image Caption: U.S. Drought Monitor 4-week change map valid 8am EDT July 18th.

- The majority of the region continues to observe well below normal precipitation during the past 30 days
- Precipitation that has occurred has been mainly convective and isolated in nature



Generated 7/18/2024 at HPRCC using provisional data.

NOAA Regional Climate Centers



enerated 7/18/2024 at HPRCC using provisional data

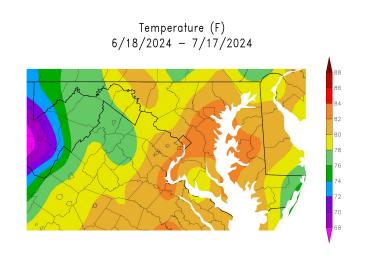
NOAL Designation to Control

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 July, 17, 2024



# Temperature

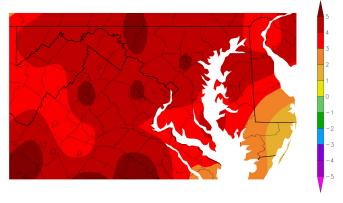
- Well above normal temperatures have been observed since June 18th.
- Multiple high temperature records have been broken with some locations observing four consecutive days of 100 F plus temperatures
- Most climate sites in the region have observed at least 90 degree F or higher temperatures for at least 20 out of the past 30 days







Departure from Normal Temperature (F) 6/18/2024 - 7/17/2024



Generated 7/18/2024 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 July, 17, 2024

# Summary of Impacts

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

#### **Hydrologic Impacts**

- River stream flows and subsurface water levels are running at near record low levels
- The Interstate Commission on the Potomac River Basin has initiated monitoring of Potomac River streamflow levels as discharge values have dropped below 1000 CFS
- Multiple reports received of dry well levels throughout the Shenandoah River Valley, along the Blue Ridge Mountains and up along the Potomac Highlands

#### Agricultural Impacts

 Farmers have reported stunted growth of crops and crop stress due to lack of precipitation and high temperatures. Crop losses of up to 20 percent have been reported by Ag Extension reports across the Shenandoah Valley

#### **Mitigation Actions**

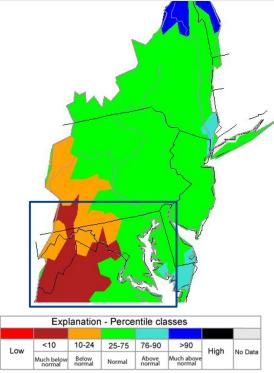
- Fauquier County, VA has instituted mandatory water conservation efforts
- The State of Virginia has a Drought Warning in effect for the Shenandoah Valley and northern VA with a drought watch for the rest of the state





## Hydrologic Conditions and Impacts

Below to much below normal streamflows continue to be observed for areas along and west of the Blue Ridge Mountains



	Expl	anation	- Perce	ntile cla	asses		
Law	<10	10-24	25-75	76-90	>90	Uinh	
Low	Much below normal	Below normal	Normal	Above normal	Much above normal	High	No Data

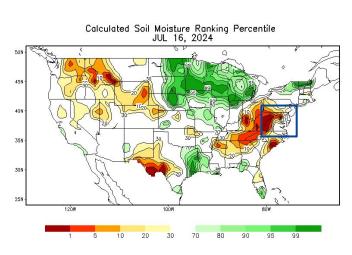
Image Caption: USGS 7 day average streamflow HUC map valid 07 18 2024





### **Agricultural Impacts**

- Growers have reported stunted growth in crops
- Plants are showing stress from lack of precipitation and an extended period of hot temperatures



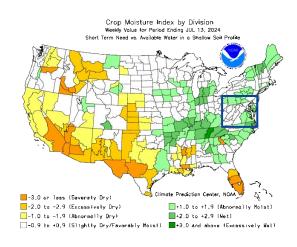


Image Captions:

Left: CPC Calculated Soil Moisture Ranking Percentile valid July 16, 2023

Right: Crop Moisture Index by Division. Weekly

value for period ending July 13, 2023





## Seven Day Precipitation Forecast

The Weather Prediction Center is forecasting a more active period for precipitation with the majority of the region forecast to observe between 1 and 2 inches of precipitation over the next 7 days

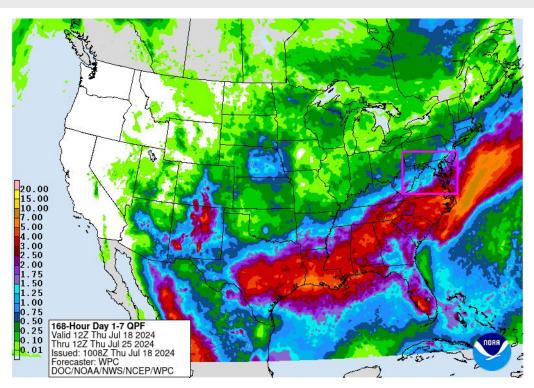
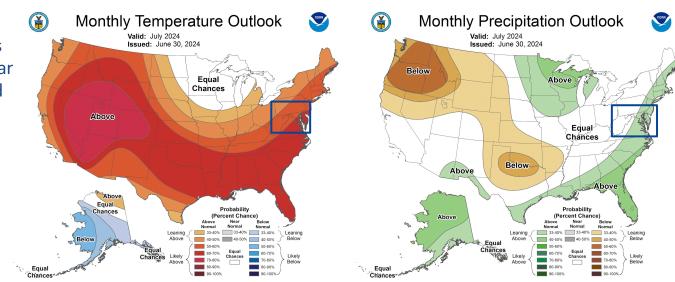


Image Caption: Weather Prediction Center <u>7-day precipitation forecast</u> valid Thursday July 18 to Thursday July 25



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

 Above normal temperatures are forecast for July with near normal precipitation favored



#### Image Captions:

Left - <u>Climate Prediction Center Monthly Temperature Outlook.</u>
Right - <u>Climate Prediction Center Monthly Precipitation Outlook.</u>
Valid 07 2024



# Drought Outlook

The latest monthly and seasonal outlooks can be found on the <a href="CPC">CPC homepage</a>

 Drought conditions are likely to persist into August

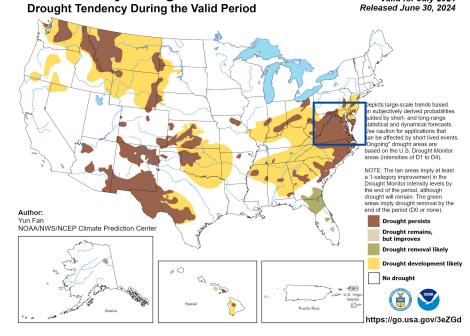


Image Caption:

U.S. Monthly Drought Outlook

Climate Prediction Center Monthly Drought Outlook Released 06 30, 2024 valid for 07 2024



Climate Prediction Center Monthly Drought Outlook
Climate Prediction Center Seasonal Drought Outlook



Valid for July 2024