



Drought Information Statement for the Philadelphia/Mt. Holly Hydrologic Service Area

Valid November 27, 2023

Issued By: NWS Philadelphia/Mount Holly

Contact Information: wfophi.webmaster@noaa.gov

- This product will be updated December 22, 2023 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/phi/DroughtInformationStatement> for previous statements.





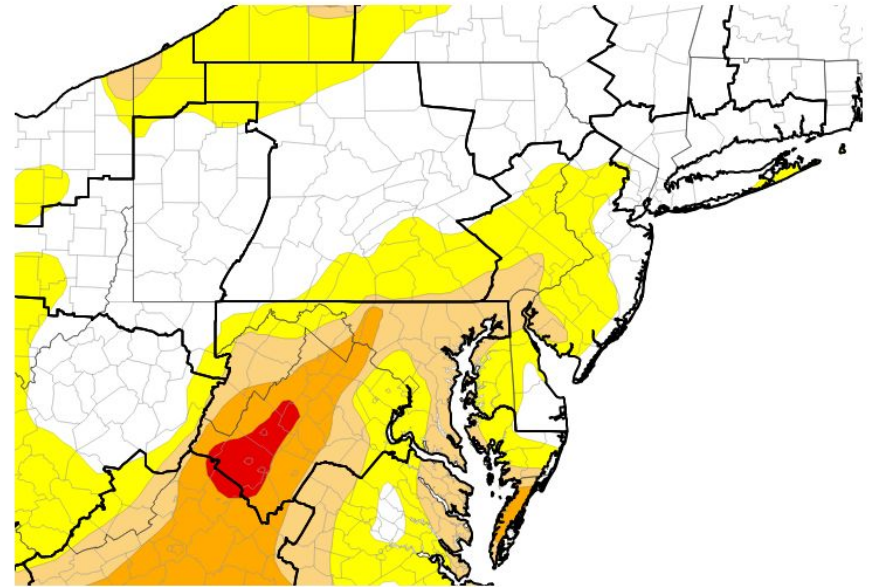
U.S. Drought Monitor

Link to the [latest U.S. Drought Monitor](#) for the Philadelphia/Mt Holly Forecast Area

Per the U.S. Drought Monitor...

- Drought intensity and Extent
 - D4 Exceptional Drought: No Exceptional Drought exists across the Mt. Holly Hydrologic Service Area (HSA).
 - D3 Extreme Drought: No Extreme Drought exists across the Mt. Holly HSA.
 - D2 Severe Drought: No Severe Drought exists across the Mt. Holly HSA.
 - D1 Moderate Drought: The Moderate Drought designation exists across SE Pennsylvania, N Delaware, and SW New Jersey.
 - D0 Abnormally Dry: Touches just about every county across our HSA in some capacity.

U.S. Drought Monitor



U.S. Drought Monitor



Source(s): NDMC, NOAA, USDA; image courtesy of Drought.gov

Data Valid: 11/21/23



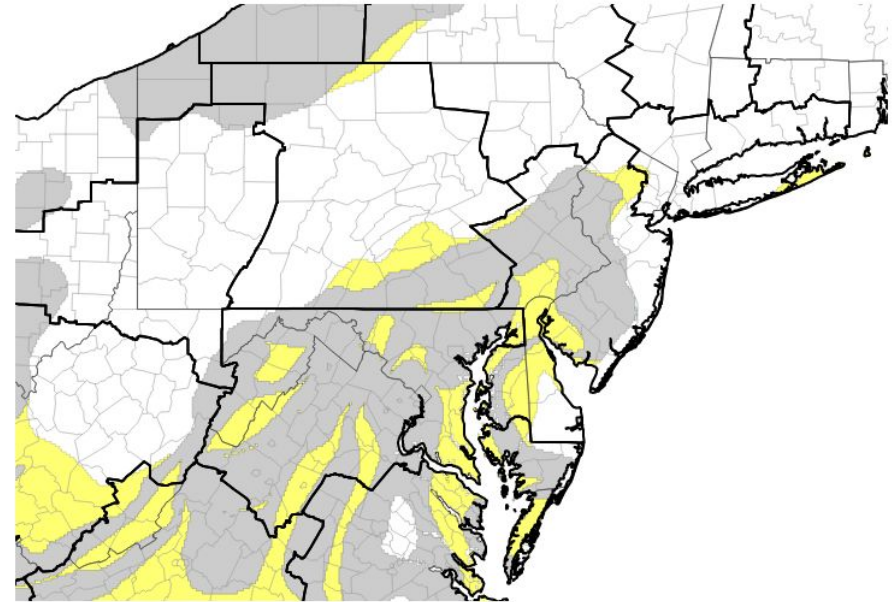


Recent Change in Drought Intensity

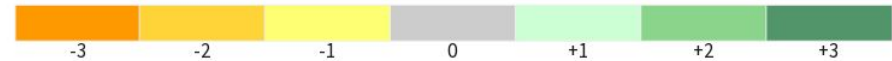
Link to the latest [4-week change map](#) for Philadelphia/Mt Holly Forecast Area

- A Four Week change map can be accessed from the link above.
- One Week Drought Monitor Class Change.
 - Drought Worsened: Across all four states we serve (NJ, PA, DE, MD).
 - No Change: Once again, across all four states we serve (NJ, PA, DE, MD).
 - Drought Improved: No improvement in drought conditions was observed

U.S. Drought Monitor 1-Week Change Map



Drought Change Since Last Week



Source(s): NDMC, NOAA, USDA; image courtesy of Drought.gov

Data Valid: 11/21/23



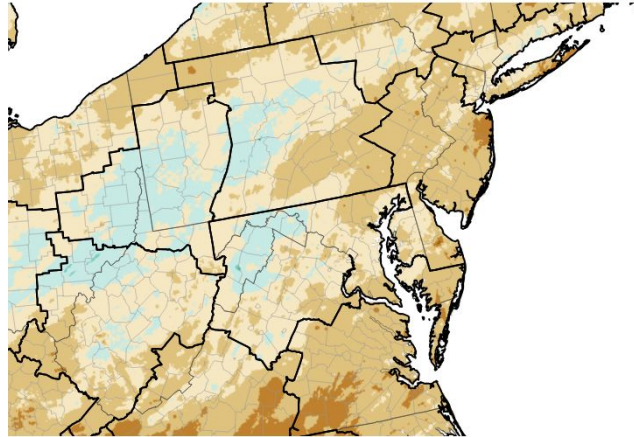


Precipitation

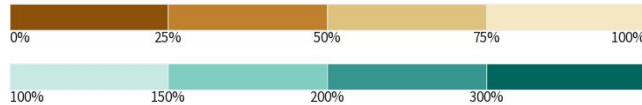
Last 30 Days

- Our entire HSA has seen rainfall deficits the last 30 days.

30-Day Percent of Normal Precipitation



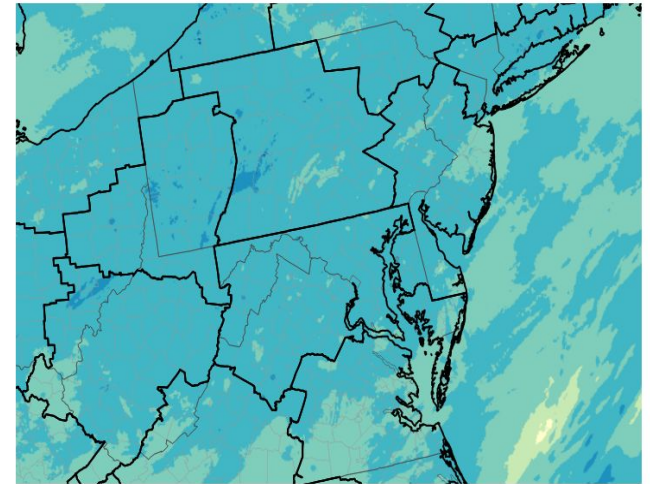
Percent of Normal Precipitation (%)



Source(s): National Weather Service Multi-Radar Multi-Sensor System; image courtesy of Drought.gov

Last Updated: 11/26/23

30-Day Precipitation Accumulations (Inches)



Inches of Precipitation



Source(s): National Weather Service Multi-Radar Multi-Sensor System; image courtesy of Drought.gov

Last Updated: 11/26/23

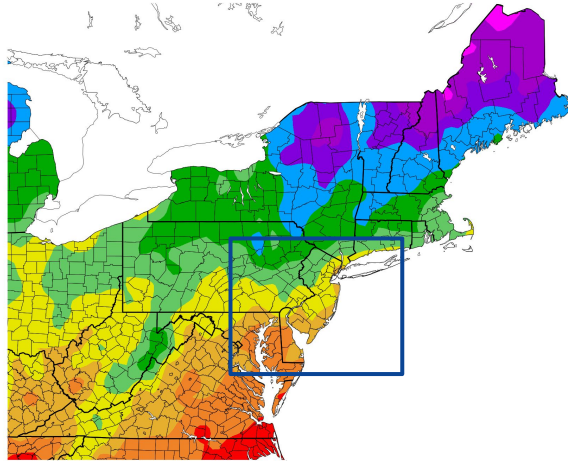




Temperature

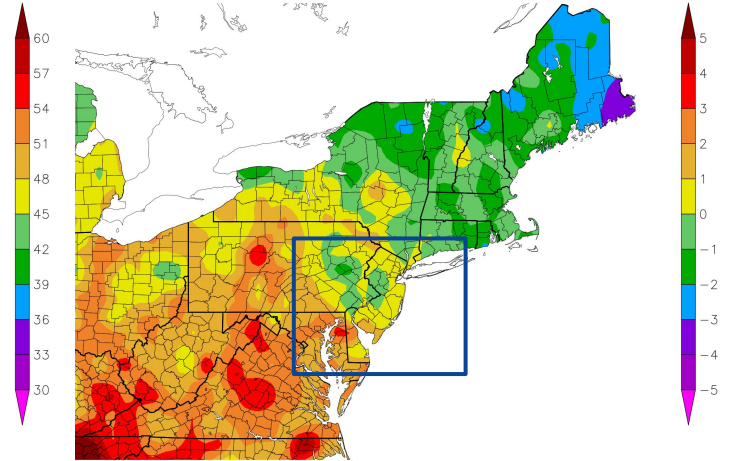
- Since the end of October through the first 26 days of November, temperature departures across the HSA were between -2.0 and +4.0 degrees.

Temperature (F)
10/28/2023 - 11/26/2023



Generated 11/27/2023 at HPRCC using provisional data.

Departure from Normal Temperature (F)
10/28/2023 - 11/26/2023



NOAA Regional Climate Centers 27/2023 at HPRCC using provisional data.

NOAA Regional Climate Centers





Summary of Impacts

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

Hydrologic Impacts

- Seven-day average streamflow conditions, ending 11/27, were normal to above normal.
- See the next slide for more details.

Agricultural Impacts

- Soil moisture was running normal to above normal.
- See slide 8 for more details.

Other Impacts

- Per the PA DEP (Department of Environmental Protection), groundwater recharge has been slow across the southeastern portion of the state.
- Per state DEPs, most reservoir pools across the HSA were normal.
- Per the Delaware River Basin Commission, and as of November 27th, the salt front in the Delaware River Estuary was estimated at river mile marker 71.4. The normal location for this time of year is river mile marker 70. This means the salt line was further upstream compared to normal.

Drought Mitigation Actions

- Per the state of Pennsylvania, a Drought Watch or Warning remains in effect for counties across the central and southeastern portion of the state.
- Keep in mind, the National Weather Service does not declare Drought Watches or Warnings.

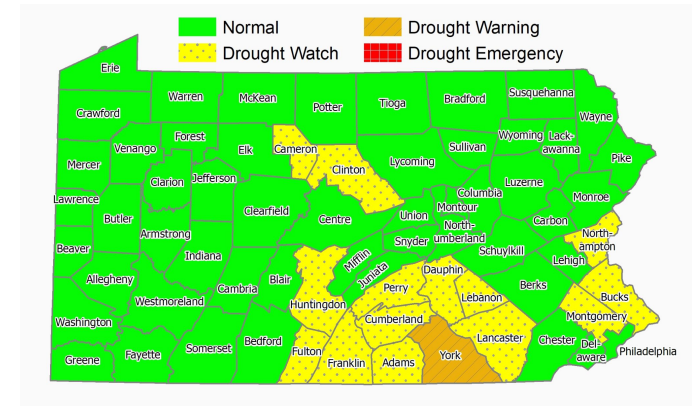


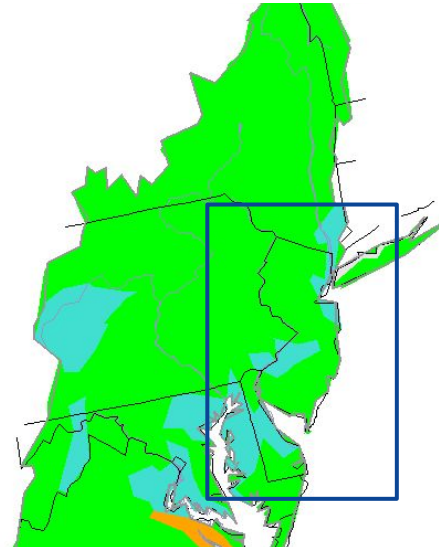
Image Captions: [PA Drought Declaration Status](#) valid 11/27/2023





Hydrologic Conditions and Impacts

- With the recent rain, the seven-day average streamflow conditions, ending 11/27, were normal to above normal.



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: HUC map [USGS 7 day streamflow for the Mid-Atlantic](#) valid November 27, 2023

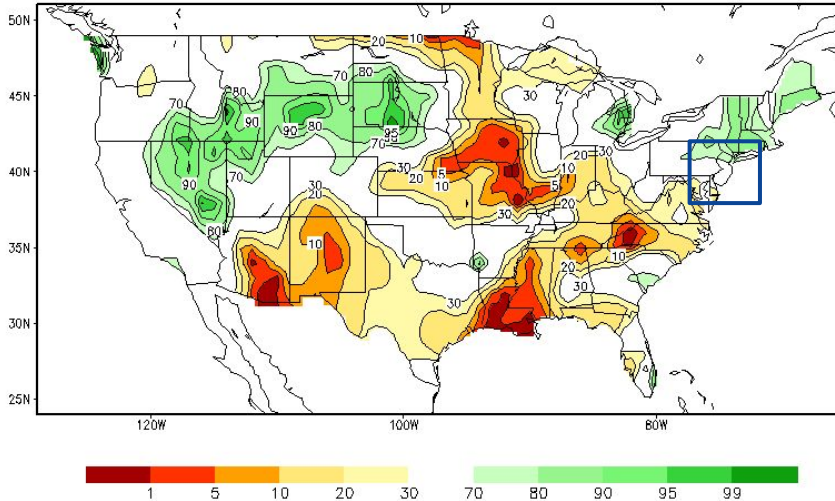




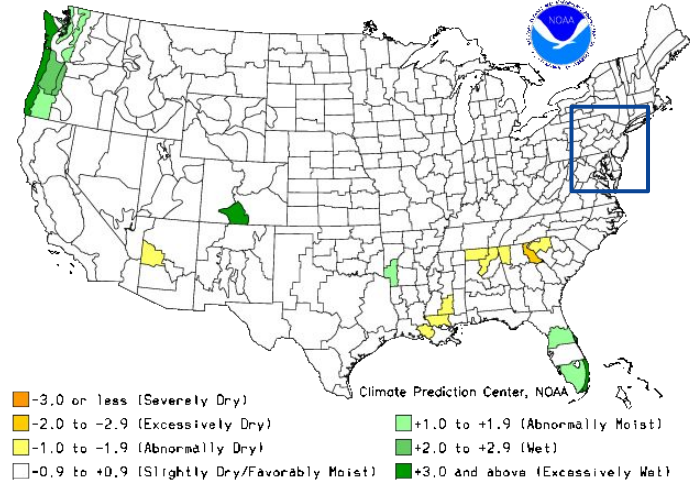
Agricultural Impacts

- Soil moisture was running normal to above normal across the HSA.

Calculated Soil Moisture Ranking Percentile
NOV 26, 2023



Crop Moisture Index by Division
Weekly Value for Period Ending NOV 18, 2023
Short Term Need vs. Available Water in a Shallow Soil Profile

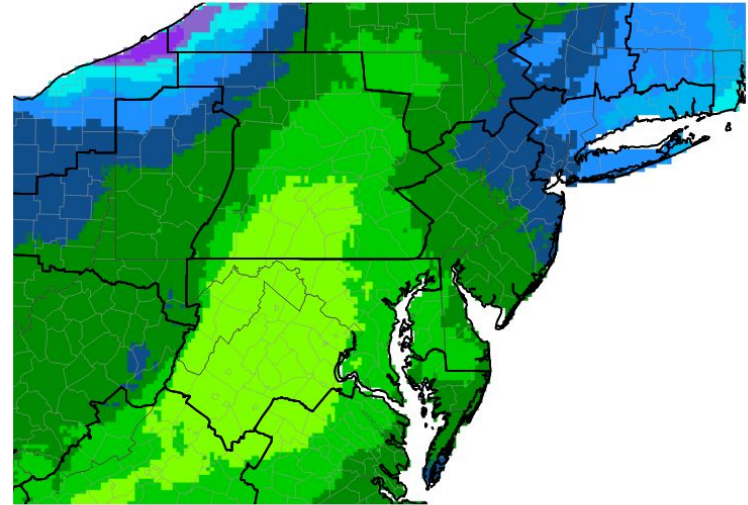




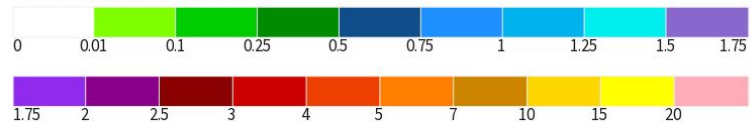
Seven Day Precipitation Forecast

- A dry but strong cold front will sweep across the region later today. High pressure will build to our south for the middle of the week. A cold front is then forecast to move through late Friday with low pressure potentially affecting the region next weekend.
- The 8 to 14 day outlook calls for above normal temperatures and precipitation.

7-Day Quantitative Precipitation Forecast



Predicted Inches of Precipitation



Source(s): National Weather Service Weather Prediction Center; image courtesy of Drought.gov

Data Valid: 11/26/23

