

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

Valid December 13, 2024

Issued By: NWS Philadelphia/Mt. Holly

Contact Information: wfphi.webmaster@noaa.gov

- This product will be updated December 24, 2024 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.
-
- The state of New Jersey has issued a Drought Warning for the entire state.
 - The state of Maryland has issued a Drought Warning for the Eastern Shore.
 - The state of Delaware has issued a Drought Watch for the entire state.
 - The state of Pennsylvania has issued a Drought Watch for east-central and southeast portions of the state and a Drought Warning for Berks county.



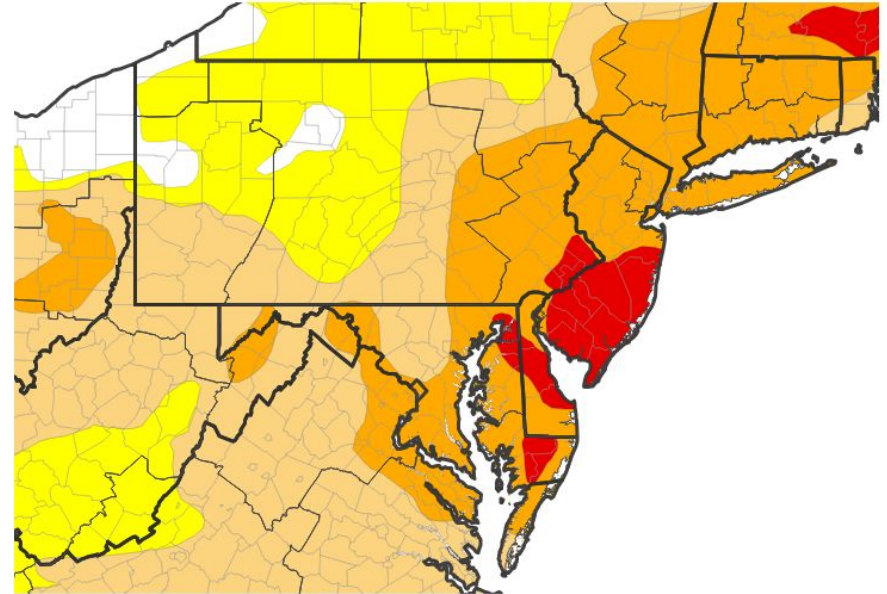


U.S. Drought Monitor

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

- Drought intensity and Extent
 - **D4 (Exceptional Drought)**: No Exceptional Drought exists across the Hydrologic Service Area (HSA).
 - **D3 (Extreme Drought)**: Extreme Drought exists across portions of New Jersey, Pennsylvania, and the Delmarva.
 - **D2 (Severe Drought)**: The entire forecast area is at least in Severe Drought.
 - **D1 (Moderate Drought)**: The entire forecast area is at least in Moderate Drought.
 - **D0: (Abnormally Dry)**: The entire forecast area is at least considered Abnormally Dry.

U.S. Drought Monitor



U.S. Drought Monitor



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

Data Valid: 12/10/24



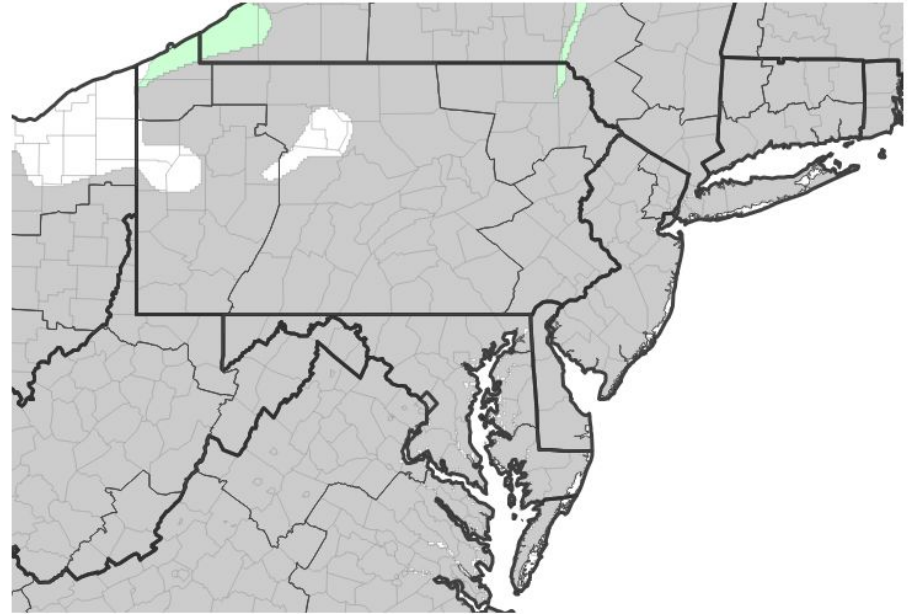


Recent Change in Drought Intensity

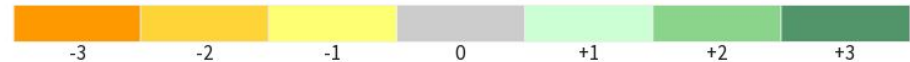
Link to the latest [4-week change map](#) for Philadelphia/Mt Holly Forecast Area

- A Four Week change map can be accessed from the link above.
- One Week Drought Monitor Class Change...
 - Drought Worsened: No deterioration was observed.
 - No Change: Conditions remained the same across portions of east-central and southeastern Pennsylvania, New Jersey, and the Delmarva.
 - Drought Improved: No improvement 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: 12/10/24



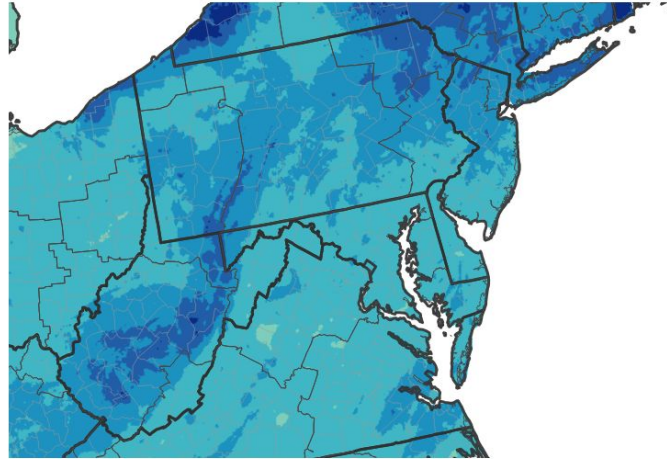


Precipitation

Last 30 Days

- Precipitation across the HSA has varied the last 30 days ranging from below normal to above normal.

30-Day Precipitation Accumulations (Inches)



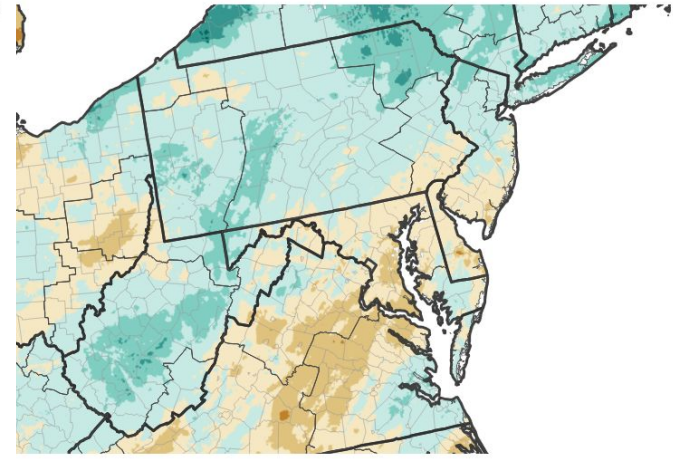
Inches of Precipitation



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

Last Updated: 12/13/24

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: 12/13/24

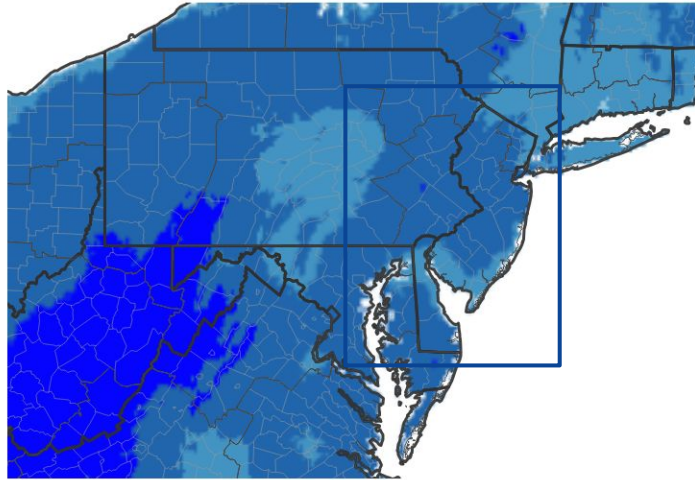




Temperature

- The entire region has seen below normal temperatures the last 7 days.
- Over the last 30 days, temperatures have mainly been normal or slightly below.

7-Day Temperature Anomaly



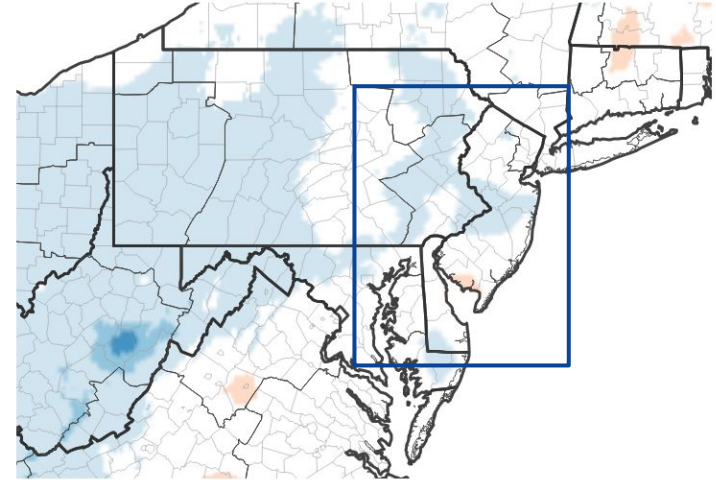
Departure from Normal Max Temperature (°F)



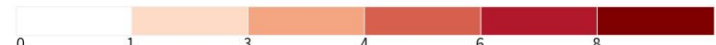
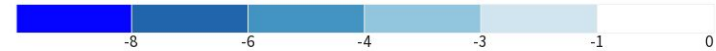
Source(s): NOAA's National Centers for Environmental Information; image courtesy of Drought.gov

Data Valid: 12/09/24

30-Day Temperature Anomaly



Departure from Normal Max Temperature (°F)



Source(s): NOAA's National Centers for Environmental Information; image courtesy of Drought.gov

Data Valid: 12/09/24





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 12/13, varied widely across the region from much below normal to above. See the next slide for more details.

Agricultural Impacts

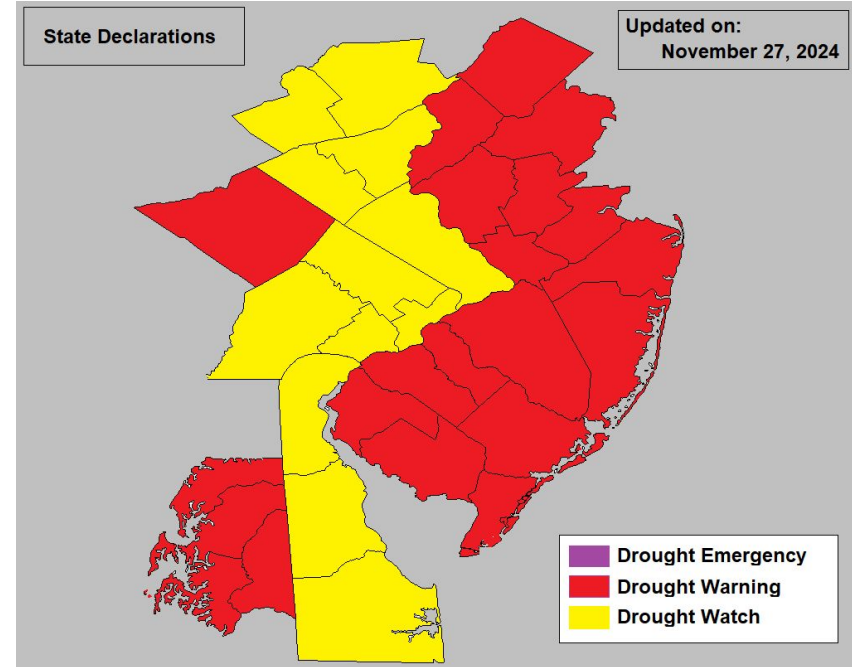
- Soil moisture was running below normal across much of the HSA.
- See slide 8 for more details.

Other Impacts

- Per state DEPs, reservoir pools across the HSA were mainly below normal.
- Per the Delaware River Basin Commission, and as of December 9th, the salt front in the Delaware River Estuary was estimated at river mile 83.2. The normal location for this time of year is river mile marker 69. This means the salt line was further upstream compared to normal.

Mitigation Actions

- Per the state of New Jersey, a Drought Warning has been issued for the entire state.
- Per the state of Maryland, a Drought Warning has been issued for the Eastern Shore.
- Per the state of Delaware, a Drought Watch has been issued for the entire state.
- Per the state of Pennsylvania, a Drought Watch has been issued for the East-Central and Southeast portions of the state. A Drought Warning has been issued for Berks county.



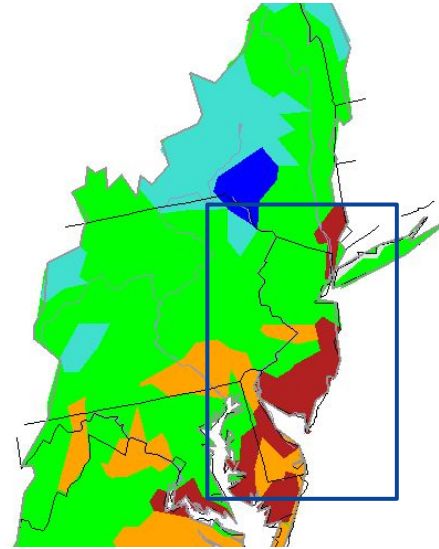
Keep in mind, the National Weather Service does not declare Drought Watches or Warnings.





Hydrologic Conditions and Impacts

- Seven-day average streamflow conditions varied widely from much below normal to above. Below normal streamflows were more prevalent across our southern area of responsibility.



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 26, 2024

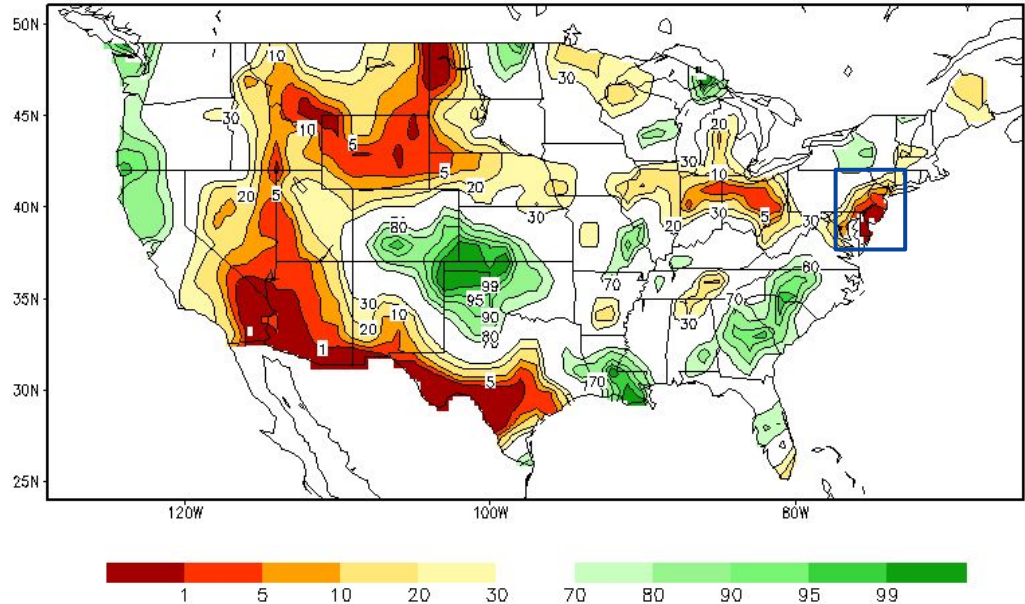




Agricultural Impacts

- Soil moisture was running below normal across much of the cross the HSA.

Calculated Soil Moisture Ranking Percentile
DEC 12, 2024



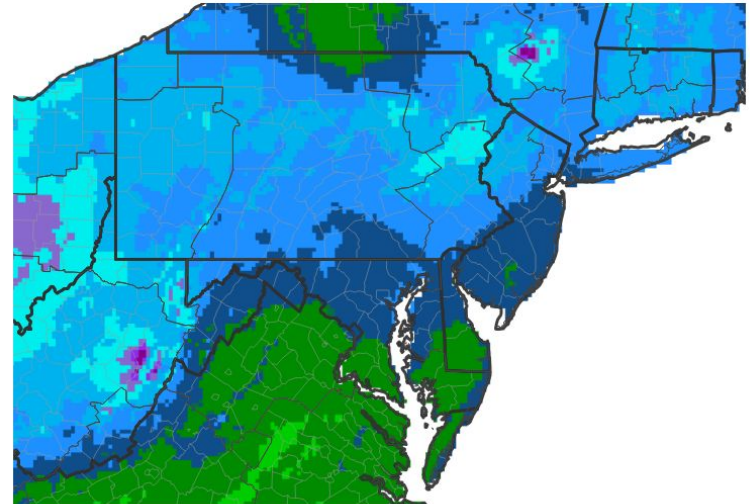


Seven Day Precipitation Forecast

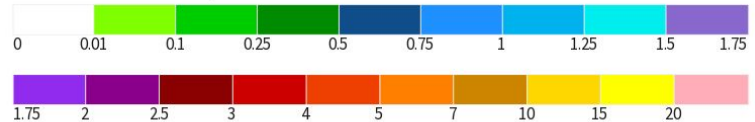
High pressure will strengthen as it builds into our region tonight. This strong high then becomes more centered to our northeast over the weekend before shifting offshore Sunday night. A weak system moves through Sunday night and Monday, followed by another system later Monday and Tuesday. High pressure may build in on Wednesday before another low pressure system could affect our region at the end of the work week.

The 8 to 14 day outlook calls for near normal temperatures and precipitation.

7-Day Quantitative Precipitation Forecast for December 13, 2024–December 20, 2024



Predicted Inches of Precipitation



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

Last Updated: 12/13/24

