



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

Valid October 23, 2023

Issued By: NWS Philadelphia/Mount Holly

Contact Information: wfophi.webmaster@noaa.gov

- This product will be updated November 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.





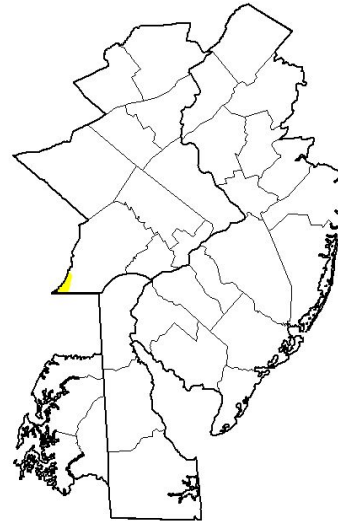
U.S. Drought Monitor

Link to the [latest U.S. Drought Monitor](#) for 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: No Moderate Drought exists across the Mt. Holly HSA.
 - D0 Abnormally Dry: Less than 1% of the Mt. Holly HSA falls within this category.

U.S. Drought Monitor Mount Holly, NJ 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
Current	99.84	0.16	0.00	0.00	0.00	0.00
Last Week 10-10-2023	99.83	0.17	0.00	0.00	0.00	0.00
3 Months Ago 07-18-2023	78.03	21.97	3.10	0.00	0.00	0.00
Start of Calendar Year 01-03-2023	96.07	3.93	0.00	0.00	0.00	0.00
Start of Water Year 09-26-2023	98.39	1.61	0.00	0.00	0.00	0.00
One Year Ago 10-18-2022	86.99	13.01	5.40	0.00	0.00	0.00

Intensity:

None	D0 Abnormally Dry	D1 Moderate Drought	D2 Severe Drought	D3 Extreme Drought	D4 Exceptional Drought
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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>

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NCEI/NOAA



droughtmonitor.unl.edu

Image Caption: U.S. Drought Monitor valid 8am EDT October 19th.



National Oceanic and
Atmospheric Administration

U.S. Department of Commerce

National Weather Service
Philadelphia/Mount Holly



Recent Change in Drought Intensity

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

- Four Week Drought Monitor Class Change.
 - Drought Worsened: No degradation in drought conditions was observed.
 - No Change: Across a small portion of Southeast Pennsylvania.
 - Drought Improved: Across portions of Southeast Pennsylvania and the Coastal Plain of New Jersey.

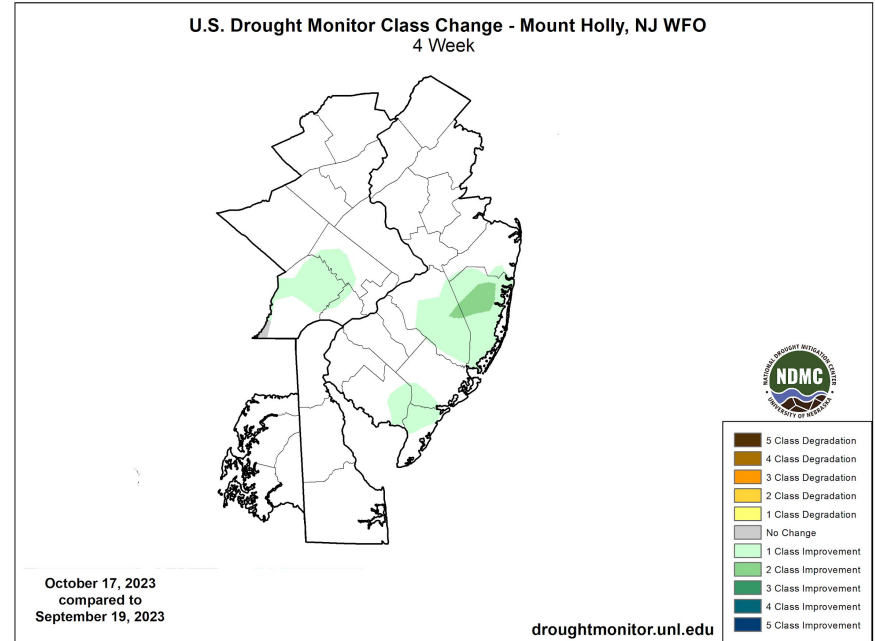


Image Caption: U.S. Drought Monitor 4-week change map valid 8am EDT October 17th.



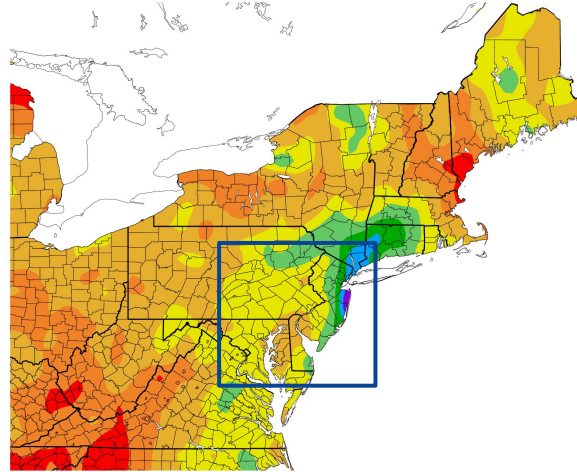


Precipitation

Last 30 Days

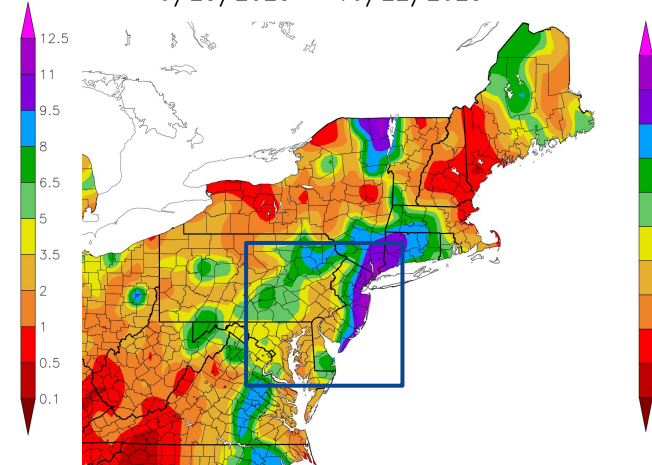
- Eastern New Jersey, a small portion of eastern Delaware, and portions of the southern Poconos have either seen normal rainfall over the last 30 days or a surplus.
- Many of the counties we serve across western New Jersey, Delmarva, and eastern Pennsylvania zones have seen deficits.

Precipitation (in)
9/23/2023 – 10/22/2023



Generated 10/23/2023 at HPRCC using provisional data.

Percent of Normal Precipitation (%)
9/23/2023 – 10/22/2023



NOAA Regional Climate Centers 023 at HPRCC using provisional data.

NOAA Regional Climate Center

Image Captions:

Left - [Precipitation Amount for the NWS Philadelphia/Mt. Holly Forecast Area](#)
 Right - [Percent of Normal Precipitation for the NWS Philadelphia/Mt. Holly Forecast Area](#)

Data Courtesy High Plains Regional Climate Center
 Data over the past 30 days ending October, 22,2023

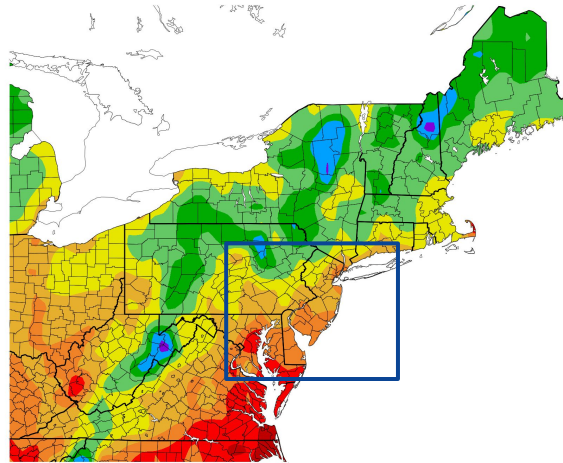




Temperature

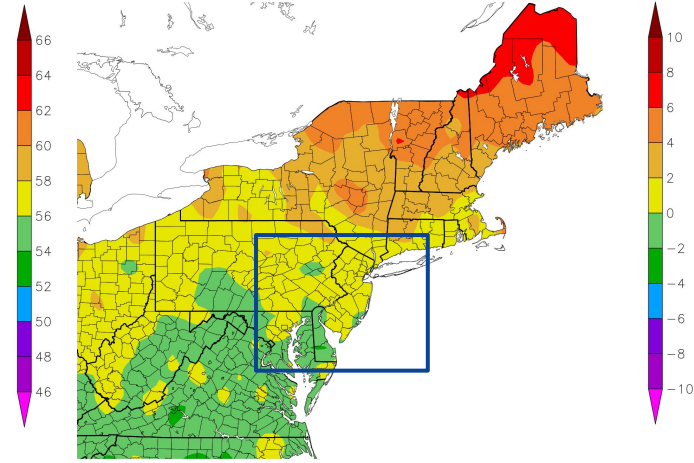
- Through the first three weeks of October, temperature departures across the HSA were between -2.0 and +2.0 degrees.

Temperature (F)
9/23/2023 – 10/22/2023



Generated 10/23/2023 at HPRCC using provisional data.

Departure from Normal Temperature (F)
9/23/2023 – 10/22/2023



NOAA Regional Climate Centers 023 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, 22, 2023

National Weather Service
Philadelphia/Mount Holly





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 10/22, were variable.
- See the next slide for more details.

Agricultural Impacts

- Soil moisture was mainly 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 October 16th, the salt front in the Delaware River Estuary was estimated at river mile marker 69.1. The normal location for this time of year is river mile marker 72. This means the salt line was further downstream 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.

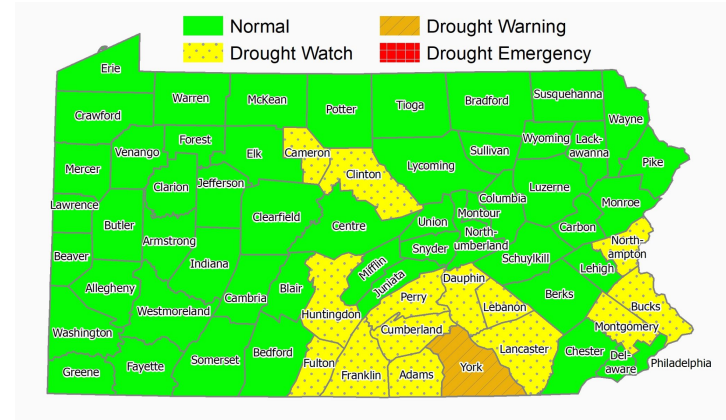


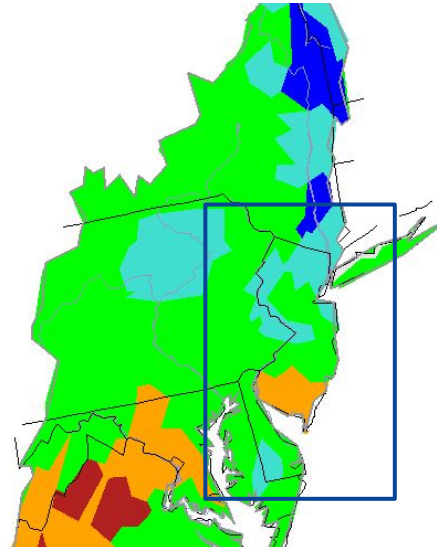
Image Captions: [PA Drought Declaration Status](#) valid 10/23/2023





Hydrologic Conditions and Impacts

- Seven-day average streamflow conditions, ending 10/22, were variable. While much of the HSA was considered normal, there were also areas below normal and 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 October 22, 2023

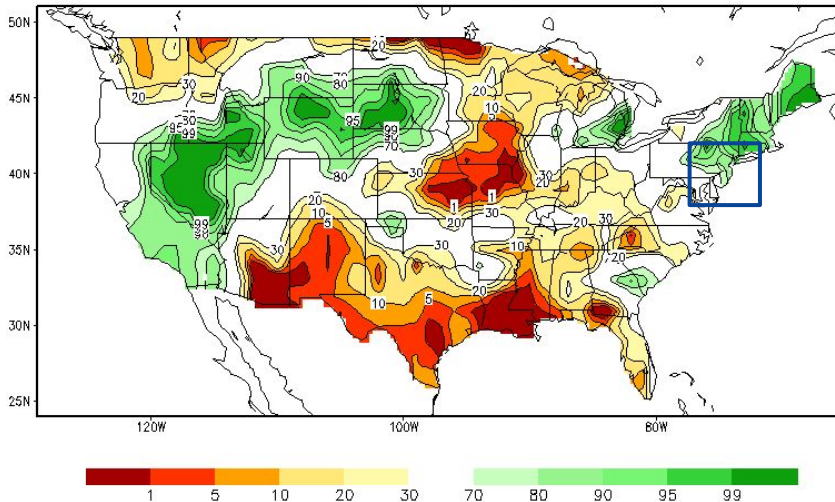




Agricultural Impacts

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

Calculated Soil Moisture Ranking Percentile
OCT 22, 2023



Crop Moisture Index by Division
Weekly Value for Period Ending OCT 14, 2023
Short Term Need vs. Available Water in a Shallow Soil Profile

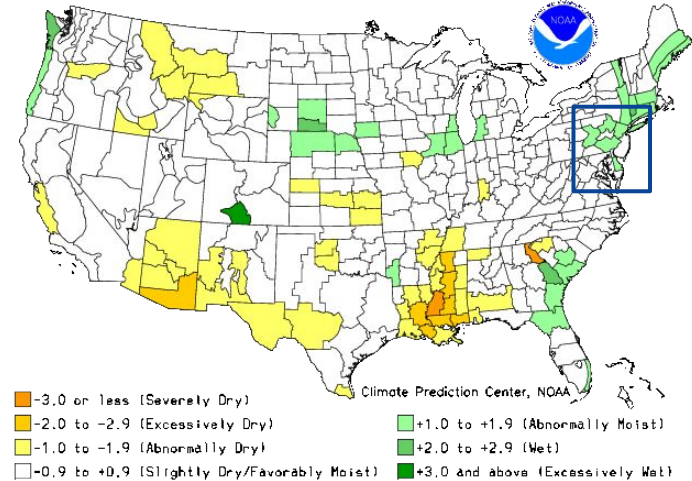


Image Captions:

Left: CPC Calculated [Soil Moisture Ranking Percentile](#) valid October 22, 2023

Right: [Crop Moisture Index by Division](#). Weekly value for period ending October 14, 2023





Seven Day Precipitation Forecast

- Low pressure will continue to move away from the area today as it tracks north and east through Atlantic Canada. At the same time, high pressure will be building in. This high will then dominate our weather through most of this week.
- The 8 to 14 day outlook calls for below normal temperatures and near normal precipitation.

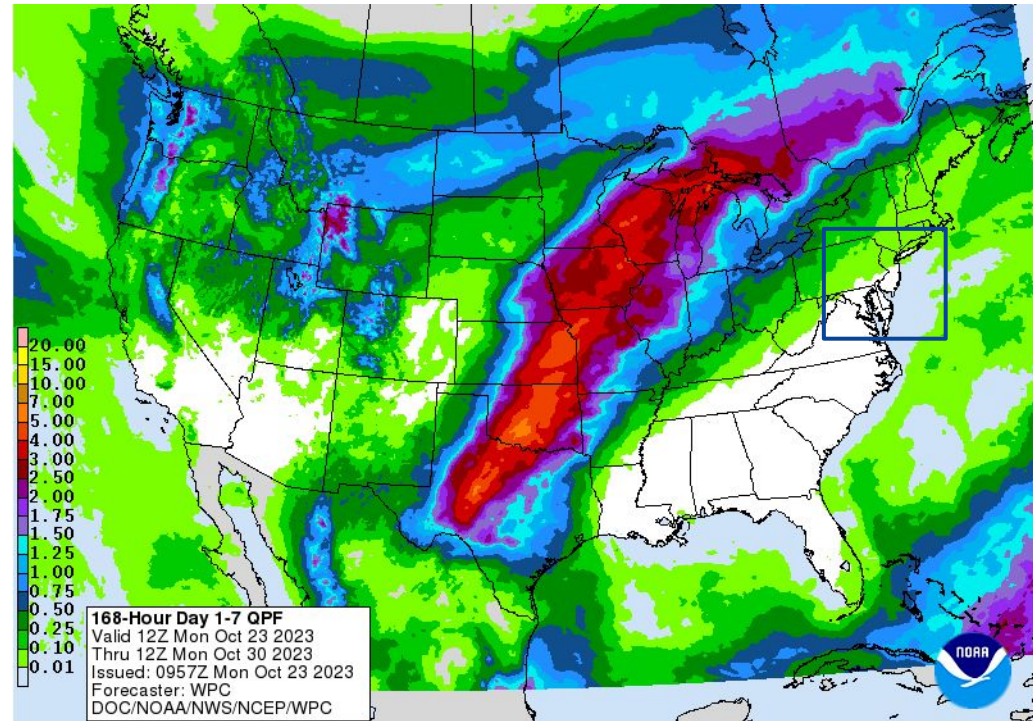


Image Caption: Weather Prediction Center [7-day precipitation forecast](#) valid Monday October 23 to Monday October 30.

