









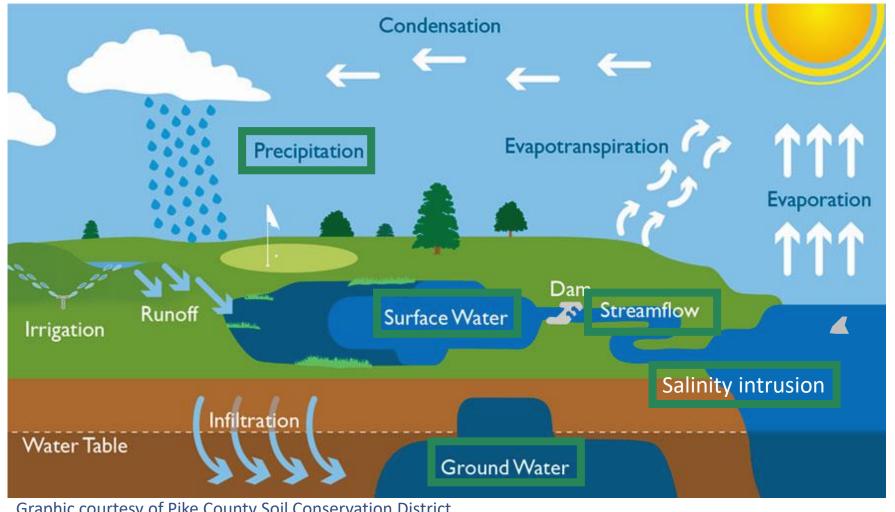
Sara Sayed
Water Resource Scientist
Water Resource Operations

September 10th, 2025 *DRBC 3Q Commission Meeting*



The Hydrologic Cycle

Water moves around the earth through air, soil, and over land.

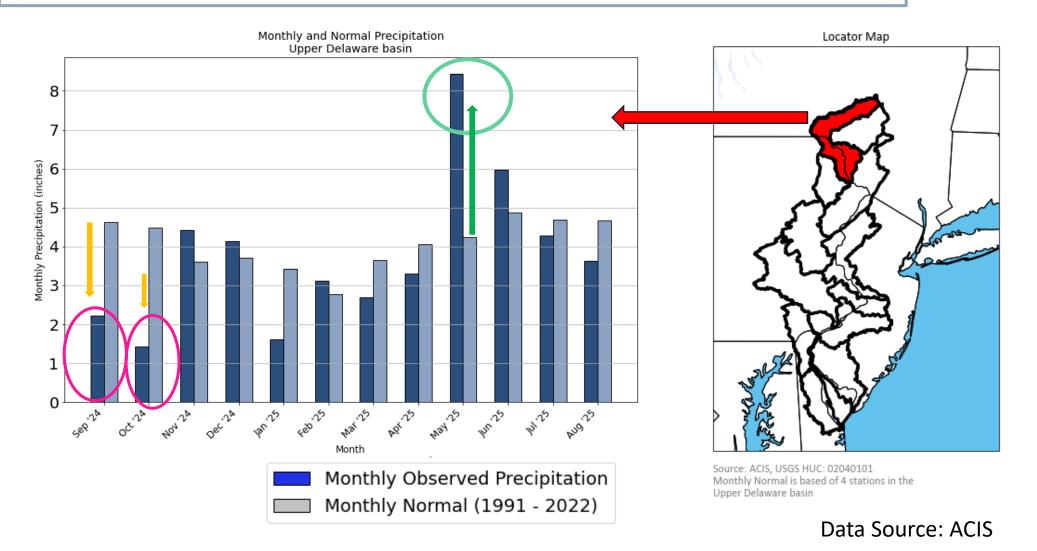






Precipitation between September 2024 to August 2025, Upper Basin (past 365 days)

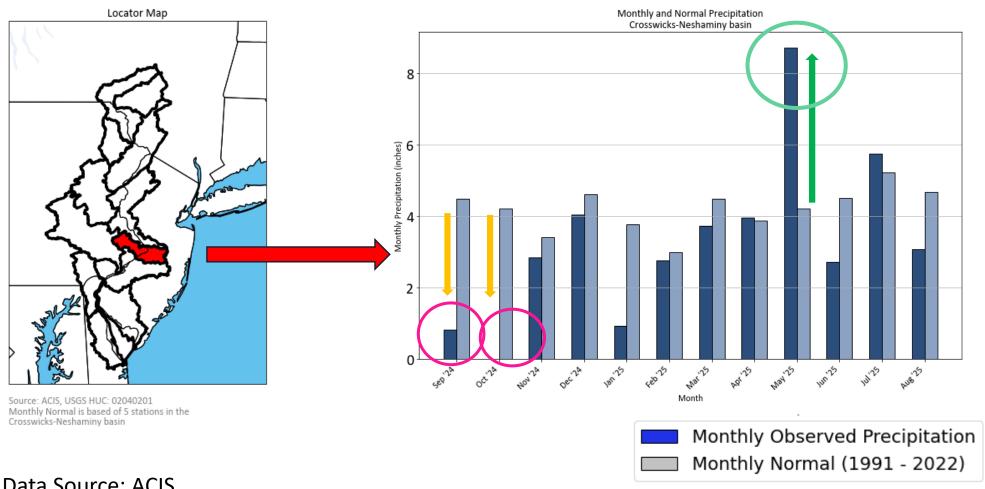
July and August both had below normal observed precipitation.





Precipitation between September 2024 to August 2025, Middle Basin (past 365 days)

June and August had below normal recorded precipitation.

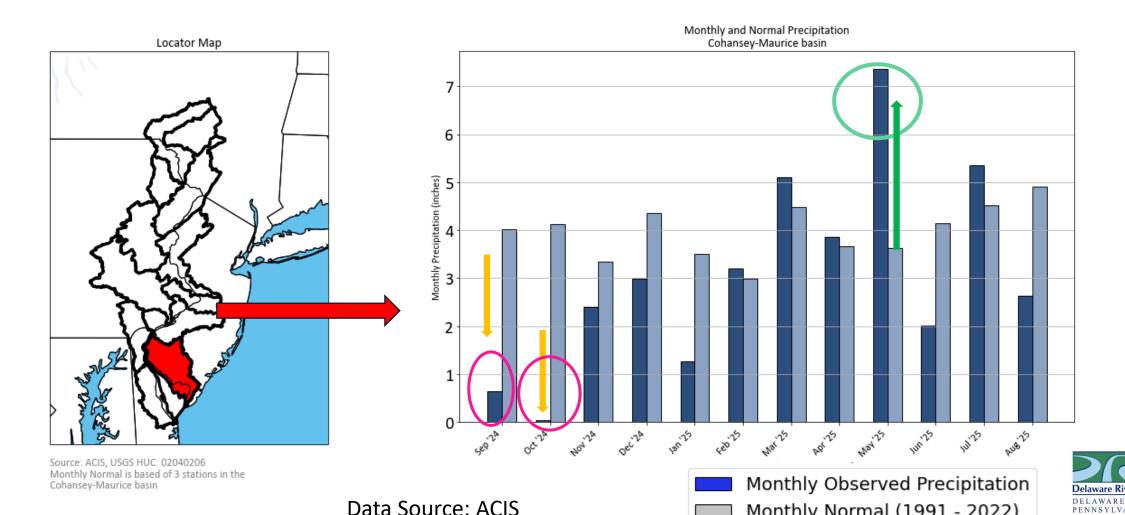






Precipitation between September 2024 to August 2025, Lower Basin (past 365 days)

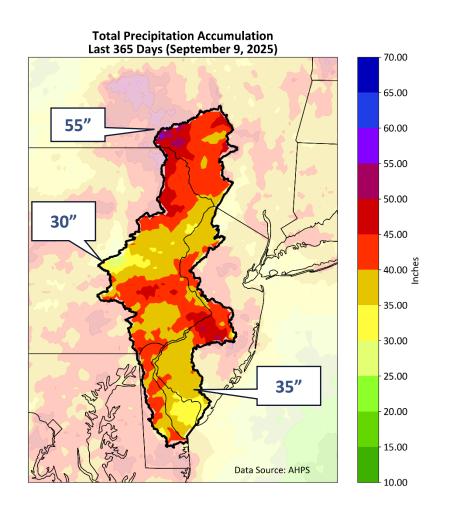
June and August had below normal observed precipitation.

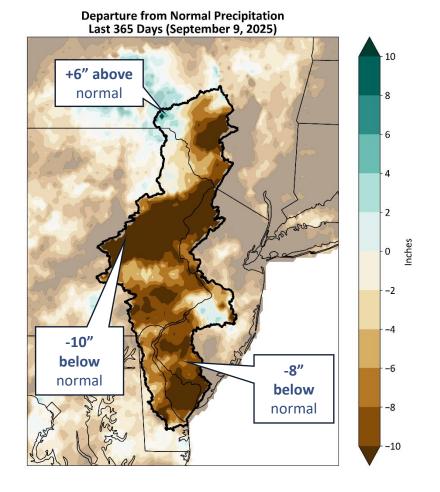


Monthly Normal (1991 - 2022)

Cumulative Precipitation over the last 365 days

Cumulative totals remain below normal except for the Northwest part of the basin.



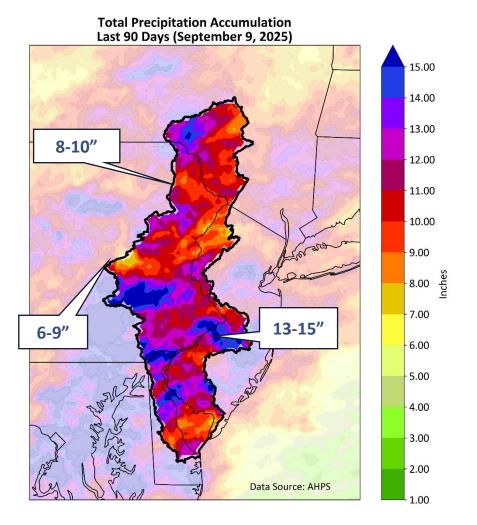


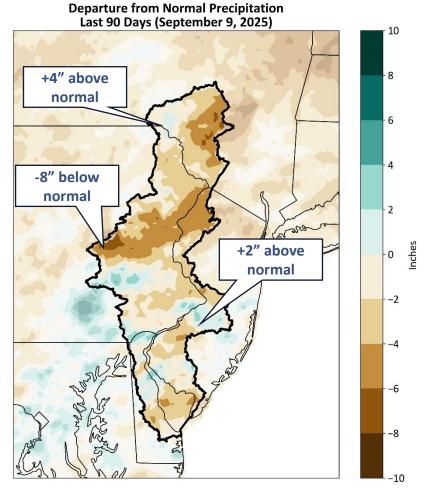


Data Source: NOAA

Cumulative Precipitation – Last 90 days

The last three months shows a trend of little rainfall.



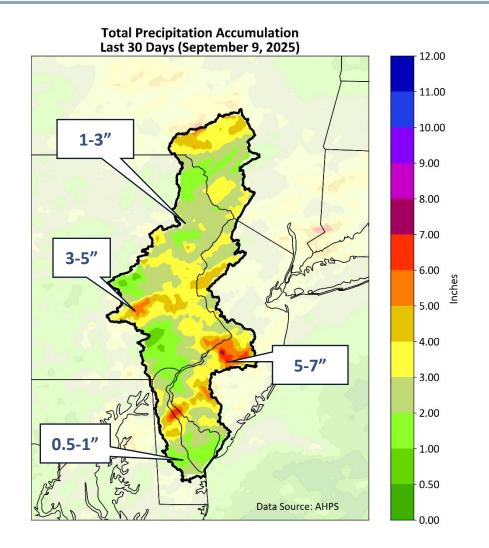


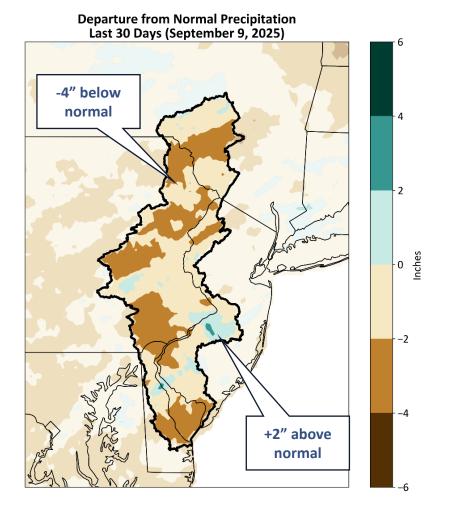


Data Source: NOAA

Cumulative Precipitation – Last 30 days

Slightly below normal throughout the basin the last 30 days.



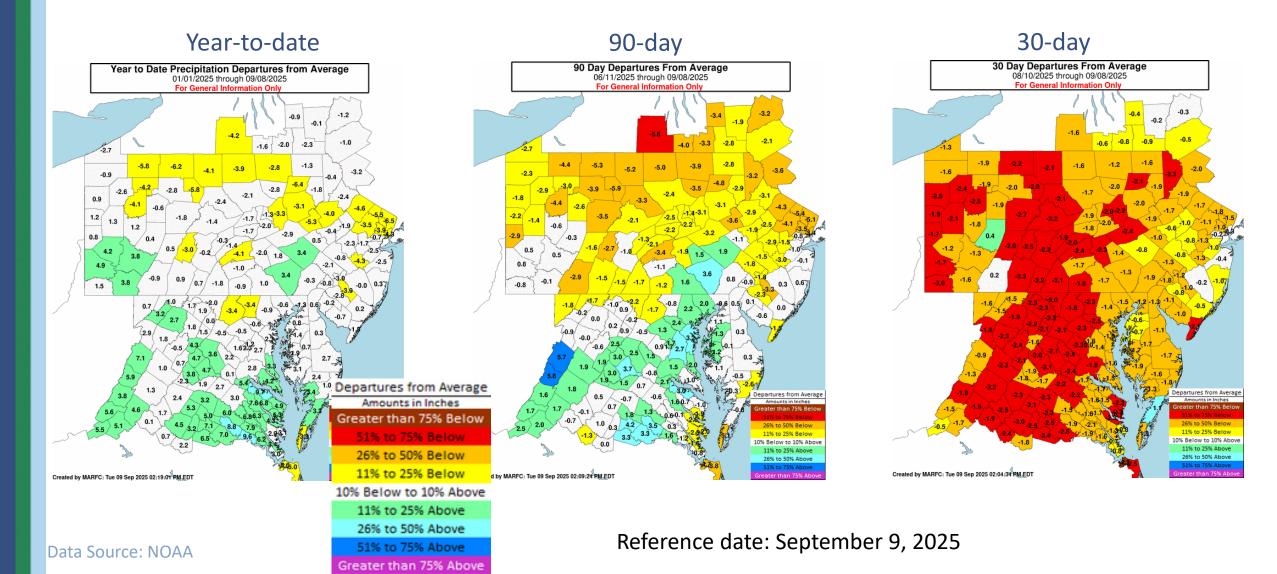




Data Source: NOAA

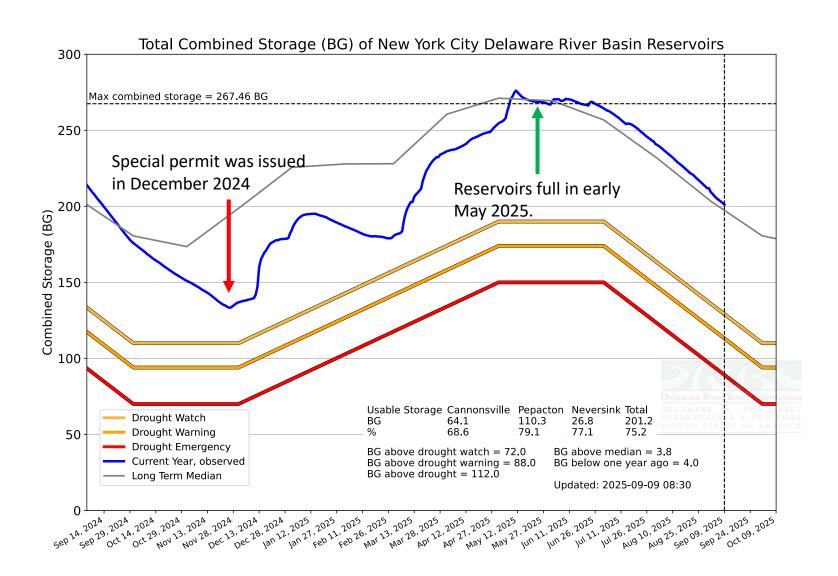
Precipitation Departures Summarized by County

Conditions have become much drier in the past 30 days.



New York City Reservoir Storage

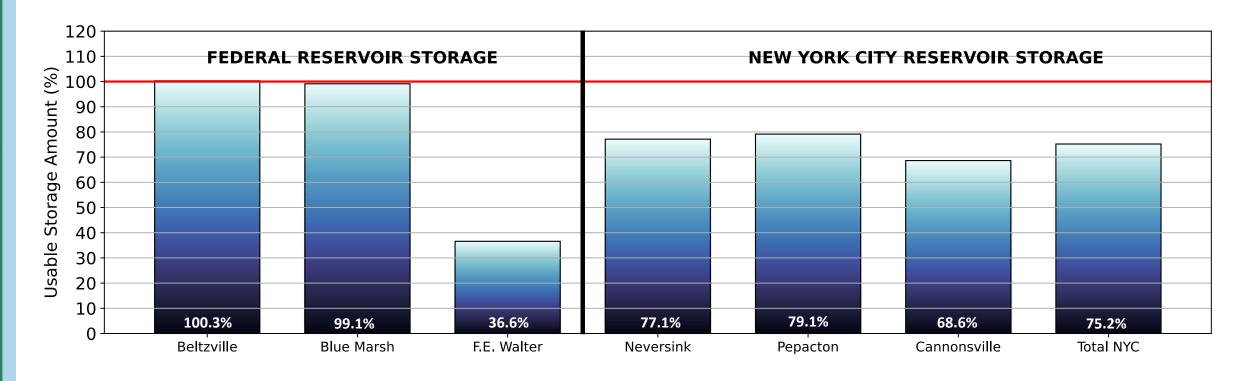
NYC combined storage steadily decreasing since May.





Reservoir Storage for Flow Management

The lack of rain recently is shown in the reservoir storage.

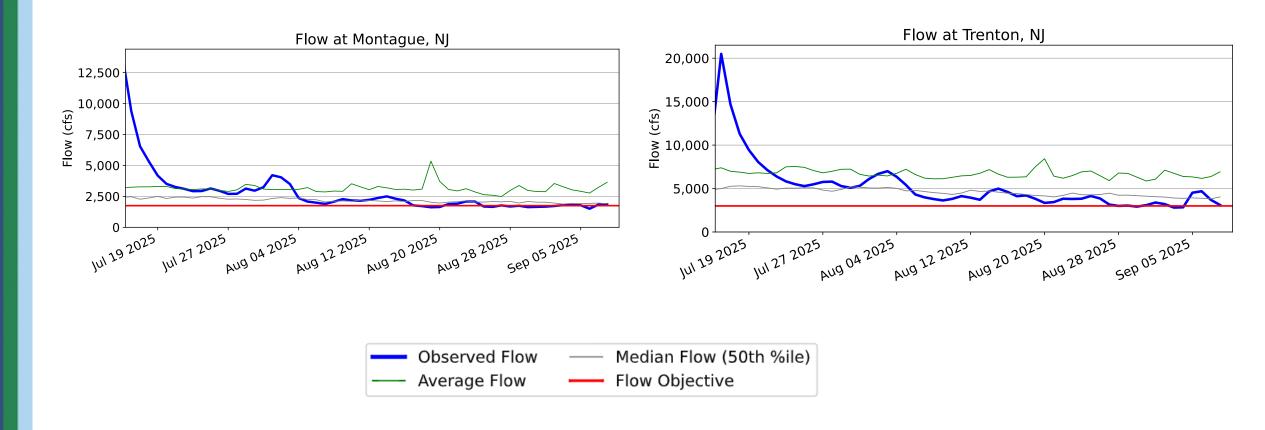


Reference date: September 9, 2025



Mainstream Streamflow Conditions along Delaware River

Flows along the mainstem are hovering around the flow objective due to below normal precipitation.



Map last updated: 8:30 am, September 9, 2025

Data Source: USGS

Some small tributaries are beginning to show below normal flow due to drying conditions.

Flow Conditions on average:

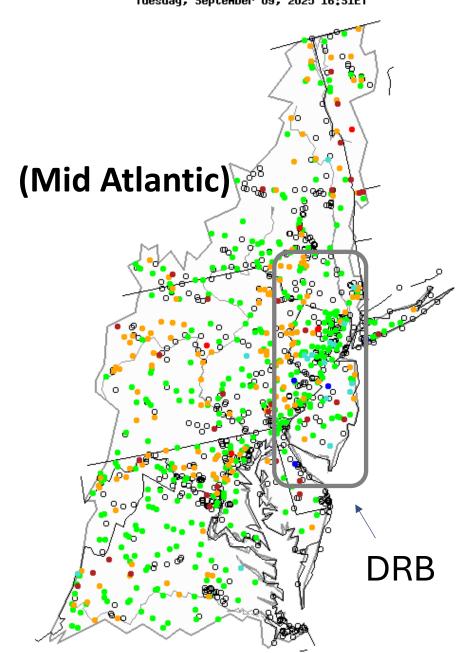
Upper Basin: Normal to below Normal

Central Basin: Normal to below Normal

Lower Basin: Normal to below Normal

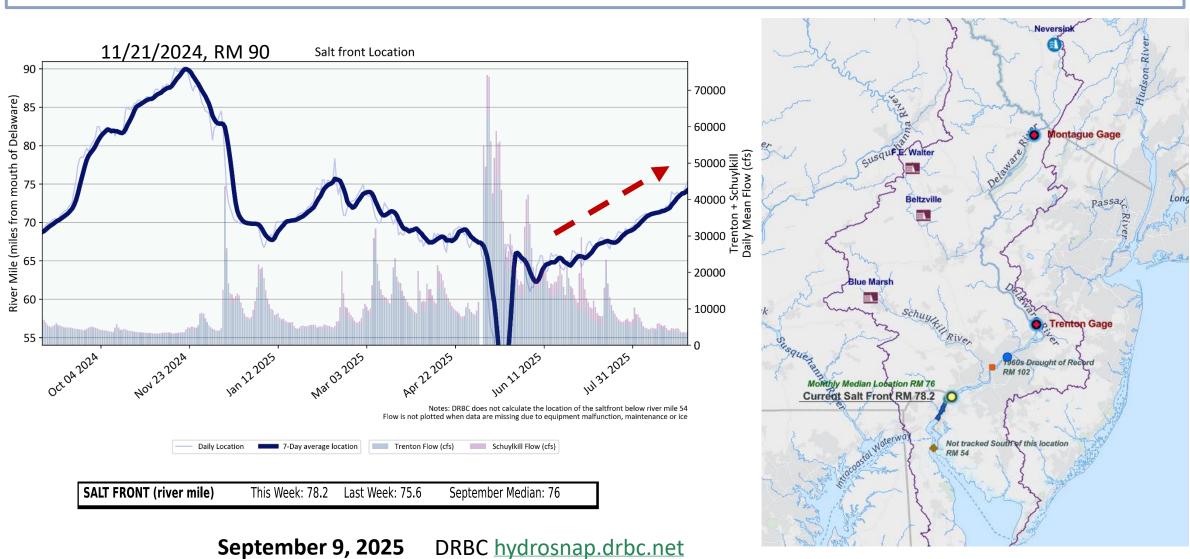
| Explanation - Percentile classes | | | | | | | |
|----------------------------------|----------------------|-----------------|--------|-----------------|----------------------|------|------------|
| | | • | • | | | • | 0 |
| Low | <10 | 10-24 | 25-75 | 76-90 | >90 | High | Not-ranked |
| | Much below normal | Below normal | Normal | Above normal | Much above normal | | |

Data Source: USGS, Water Watch, https://waterwatch.usgs.gov/index.php?r=02&id=mv01d



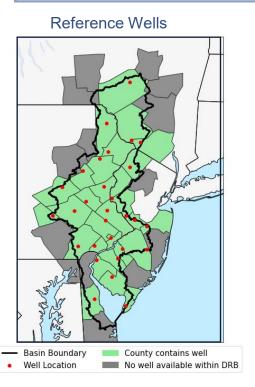
Salt Front Location

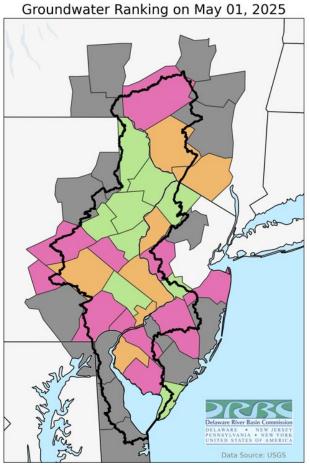
Salt front continues to be in the normal range for the year but moving upward.

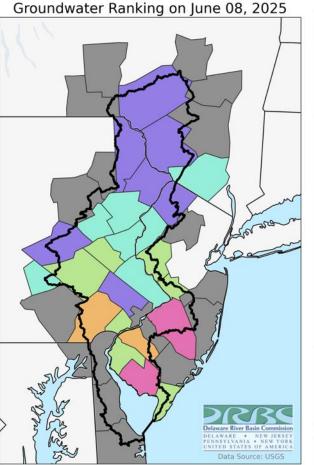


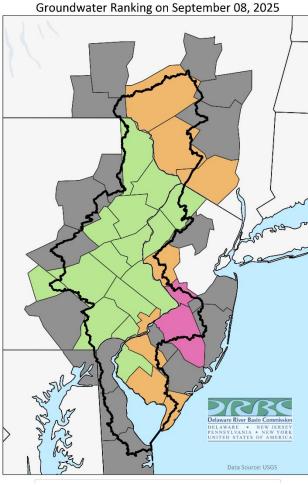
Groundwater Levels

Several wells have begun to show below normal levels due to drying conditions.

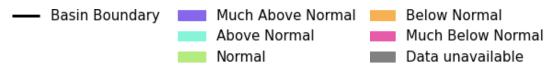






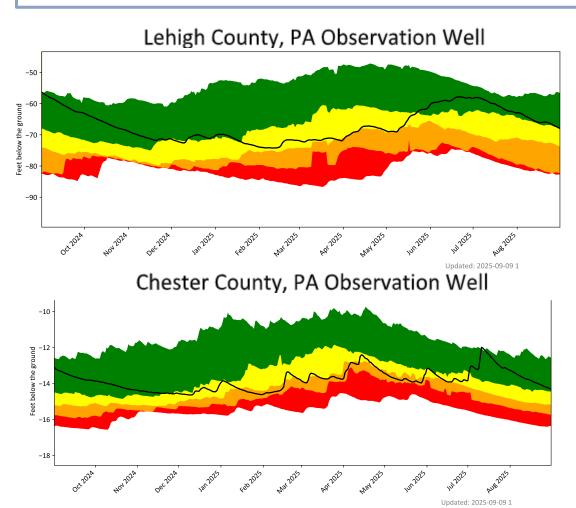




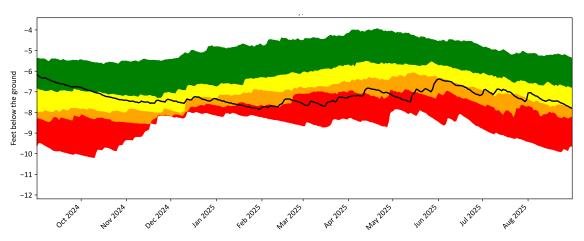


Groundwater Levels

Groundwater levels hovering between normal in PA wells and drought watch in NJ well.



Cumberland County, NJ Observation Well



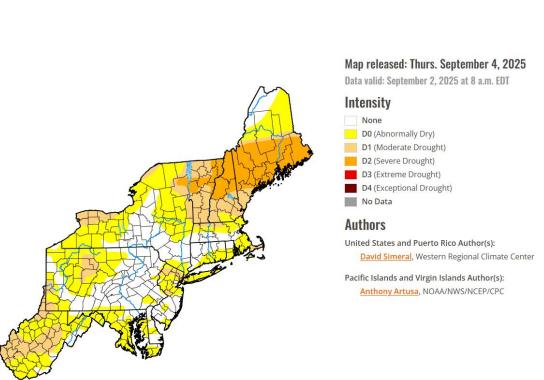
Observed **Drought Emergency** **Drought Warning Drought Watch**

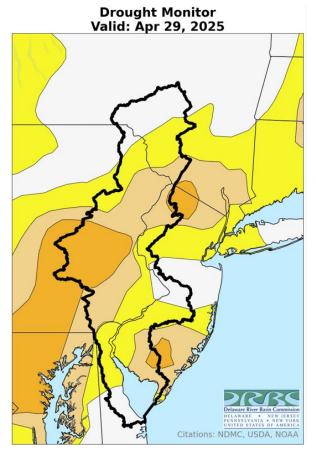
Normal Conditions

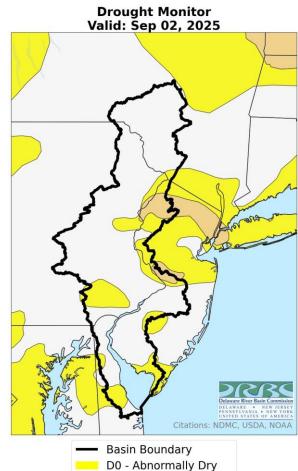


Drought Monitor

Dry conditions have returned to both the Basin and the Northeast with the lack of rainfall.







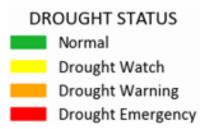
D1 - Moderate DroughtD2 - Severe Drought

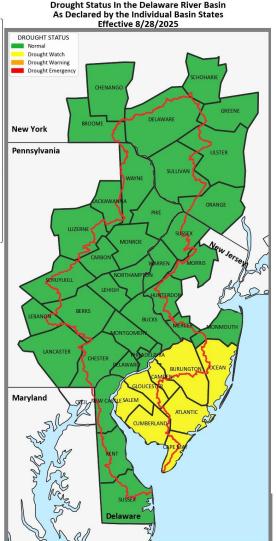


Data Source: USDM

Drought Status

All basin states have returned to normal status except for Coastal South region of NJ.





- DRB drought status is normal
- NJ: Normal as of June 2025, except Coastal South region
- DE: Normal as of Aug 2025
- NY: Normal as of Jan 2025
- PA: Normal as of July 2025

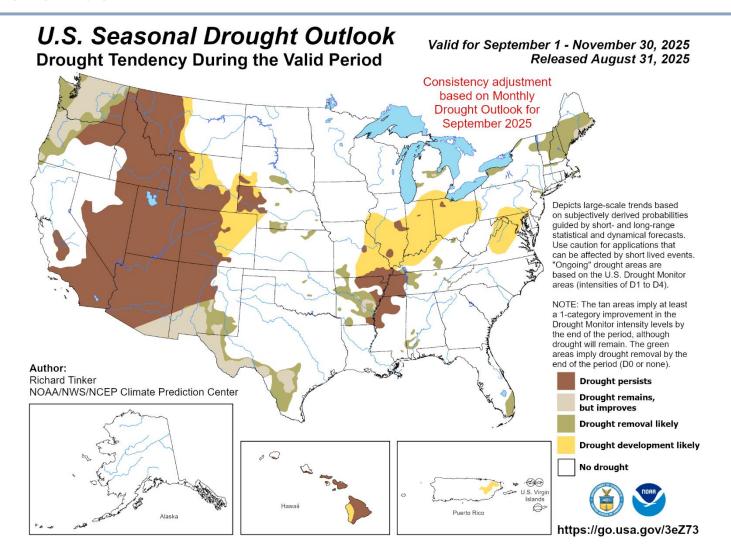
Map last updated on 8/28/2025.





NOAA Seasonal Drought Outlook: September 1 – November 30, 2025

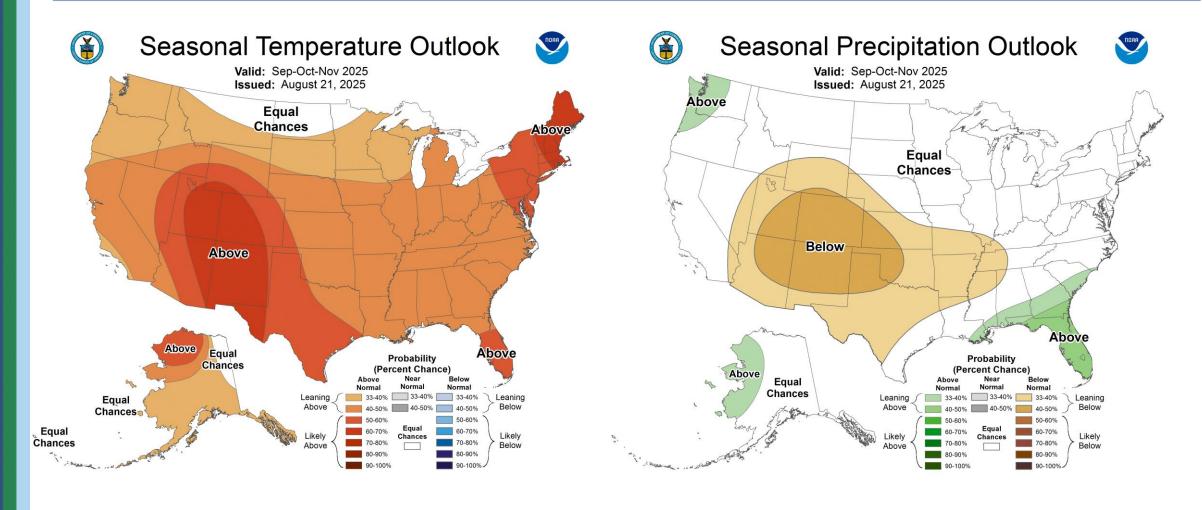
Delaware River Basin is expected to largely remain free of drought conditions through the end of November.



https://www.cpc.ncep.noaa. gov/products/expert_assess ment/sdo_summary.php

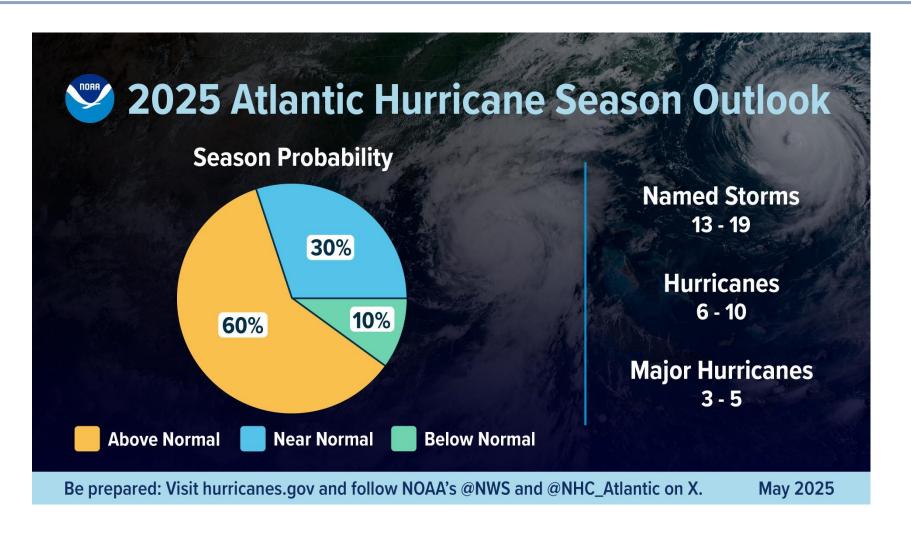
NOAA Seasonal Outlook – Sept-Oct-Nov 2025

A warm fall with normal precipitation is expected.



NOAA Hurricane Outlook – Summer 2025

An above normal hurricane season is predicted.

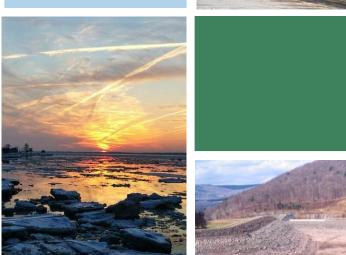




Hydrologic conditions summary



 Conditions have started to show the impacts of the lack of rainfall, particularly last month. Some groundwater wells have recovered but others have dropped below normal.



- Three-month outlook warm and wet fall expected. Above average hurricane season expected.
- Drought conditions are not expected to occur in the next three months.

Enjoy the fall!