

Hydrologic Conditions

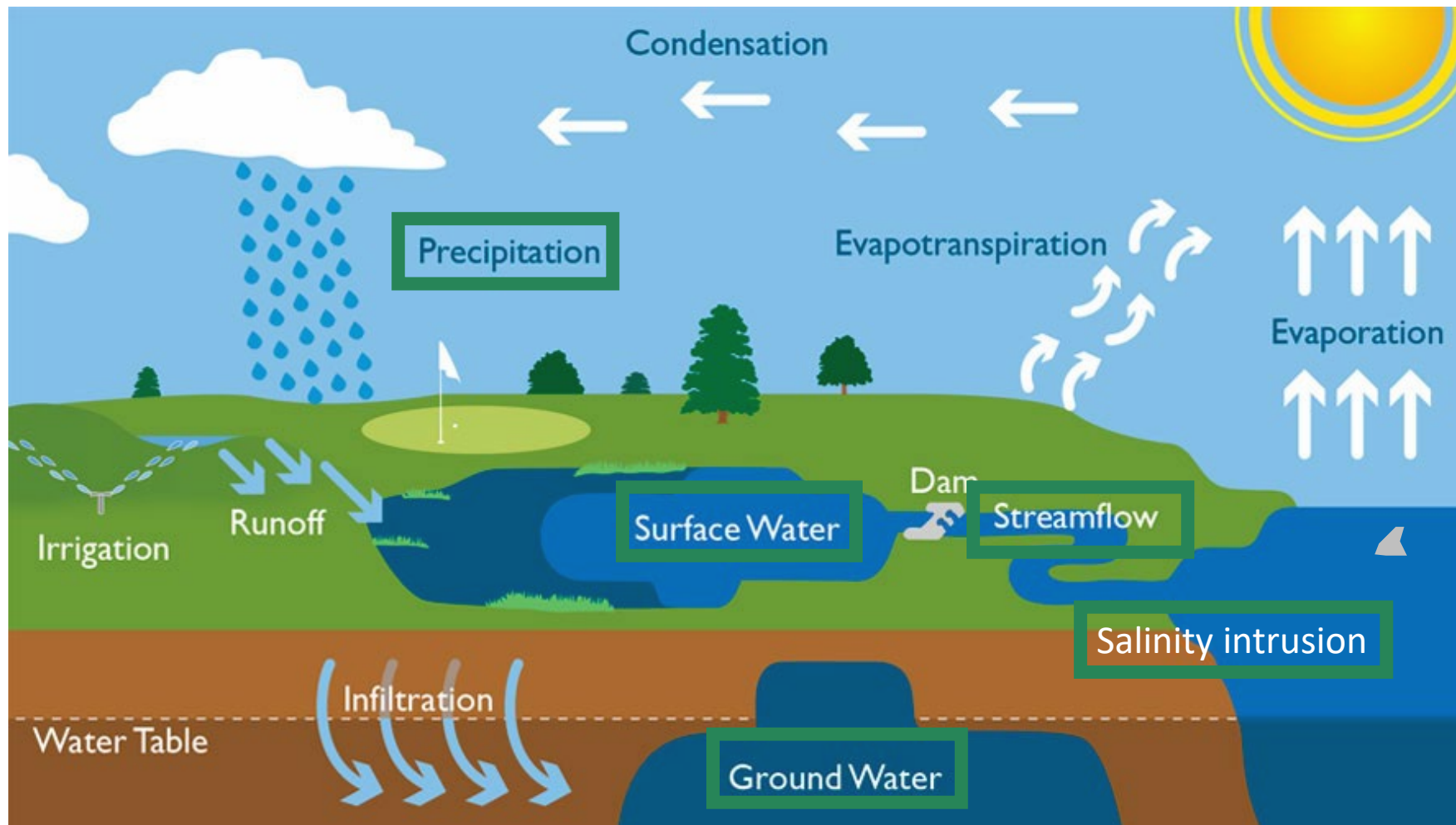
Fanghui Chen, Ph.D., P.E.
Senior Water Resource Engineer
Water Resource Operations

June 11, 2026
DRBC Second Quarter Business Meeting, 2026



The Hydrologic Cycle

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



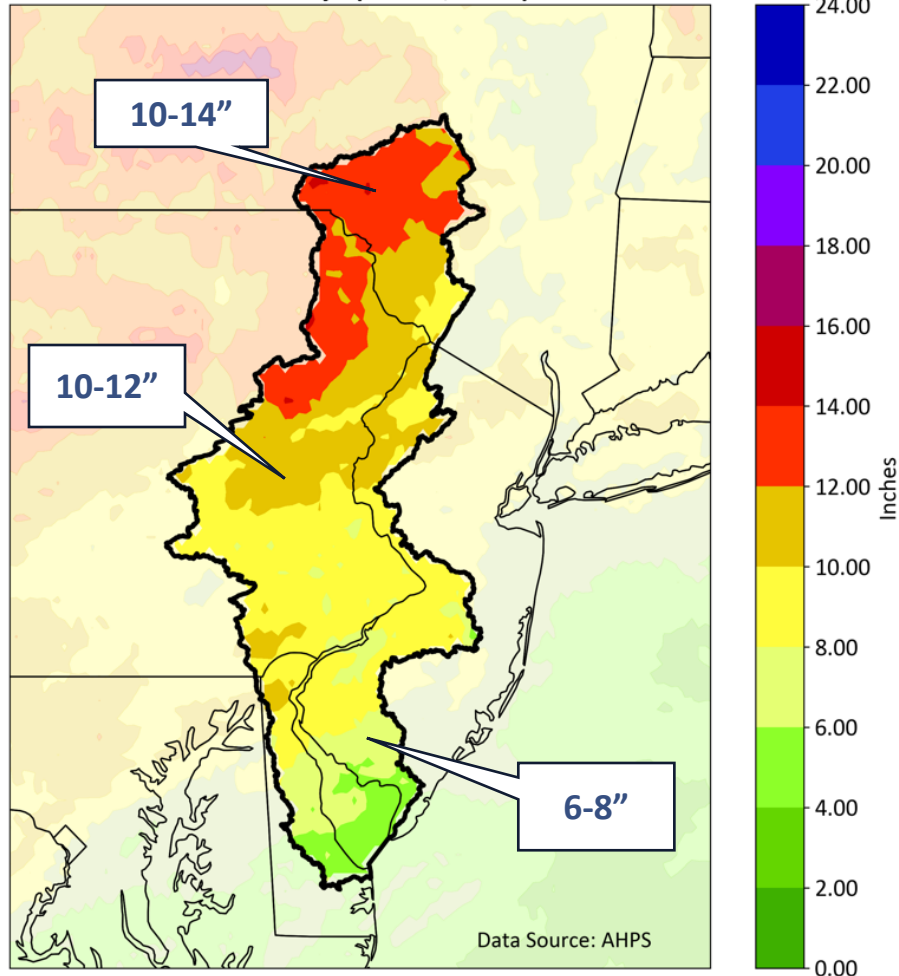
Graphic courtesy of Pike County Soil Conservation District

Cumulative Precipitation – Last 90 days

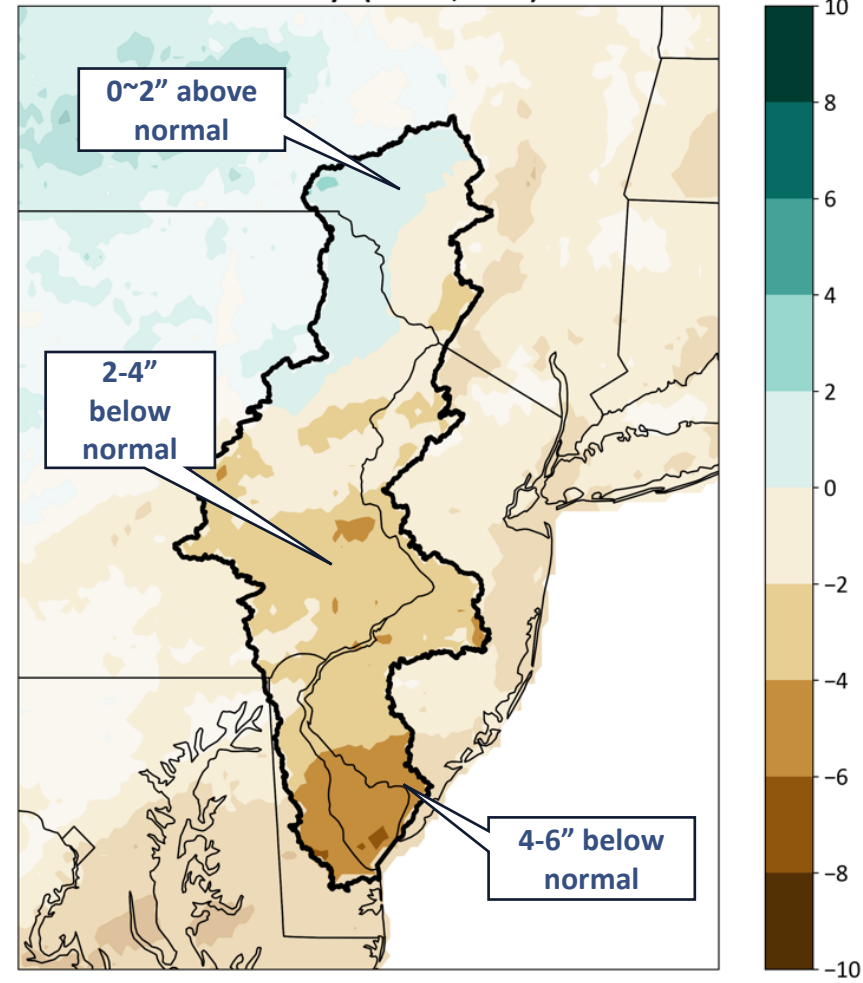
Reference date: June 8, 2026

The last three-month period shows below normal condition for the mid and lower basin.

Total Precipitation Accumulation
Last 90 Days (June 8, 2026)



Departure from Normal Precipitation
Last 90 Days (June 8, 2026)

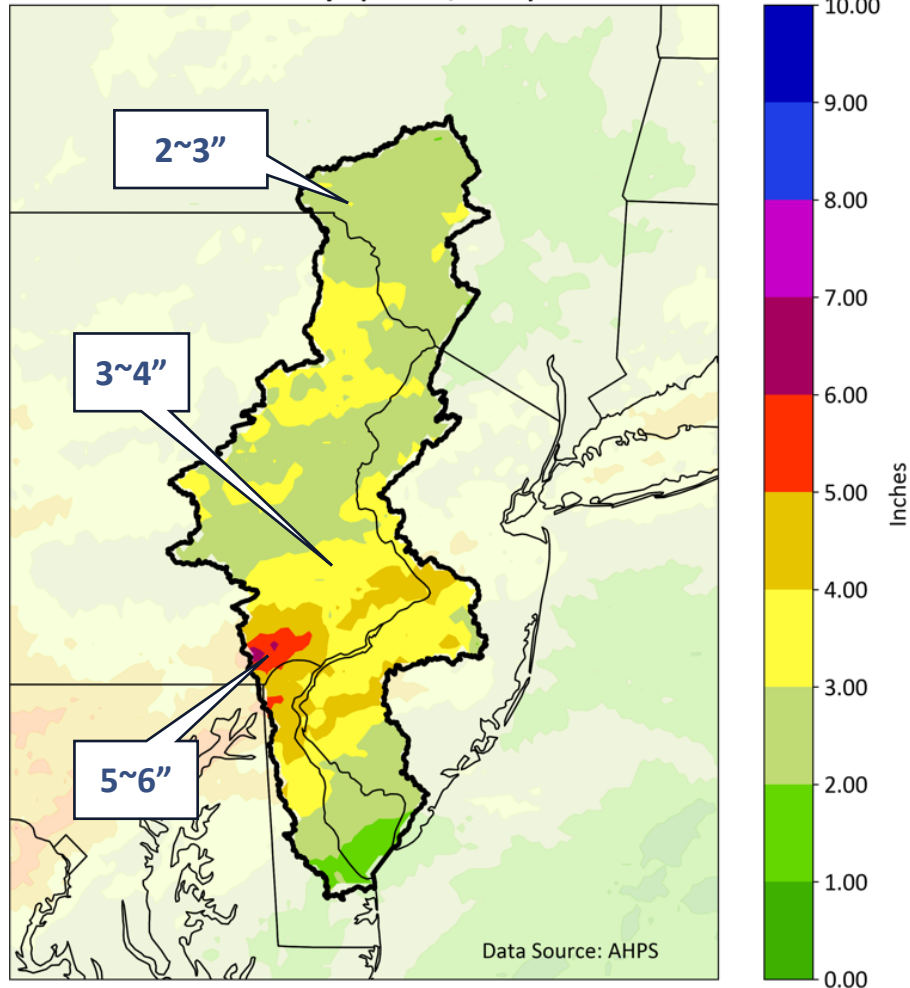


Cumulative Precipitation – Last 30 days

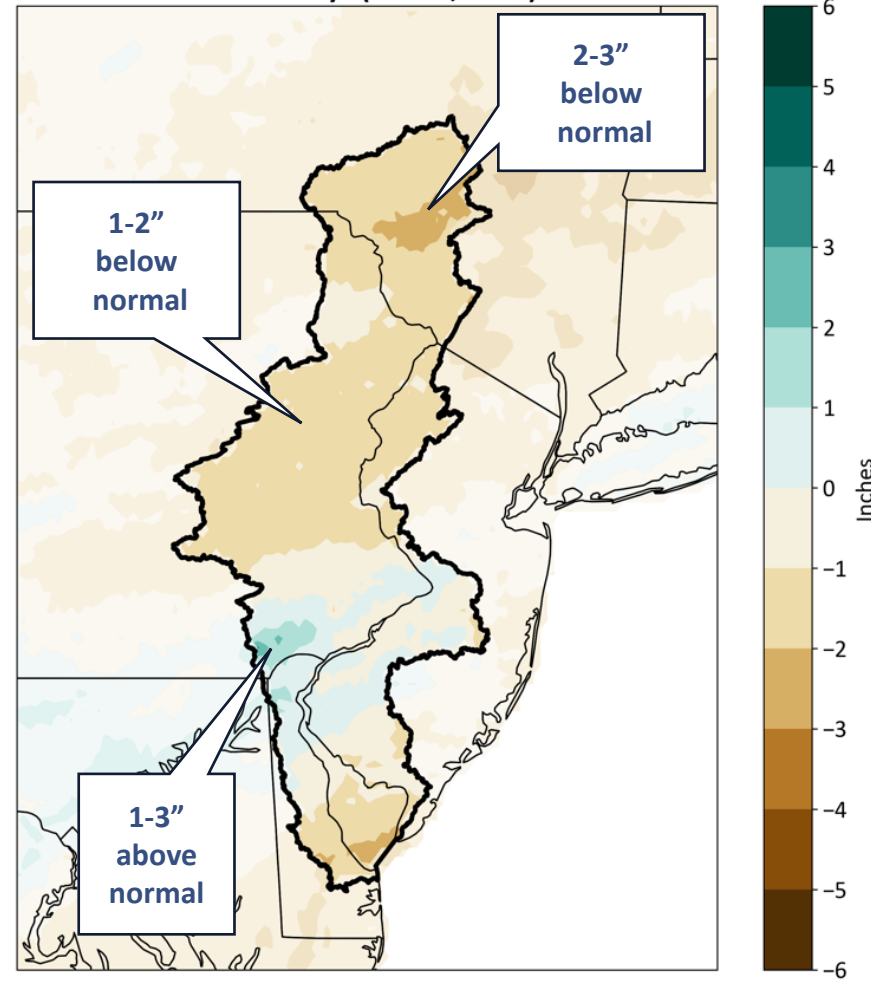
Reference date: June 8, 2026

Southeastern PA received much-needed rainfall during the last 30 days.

Total Precipitation Accumulation
Last 30 Days (June 8, 2026)

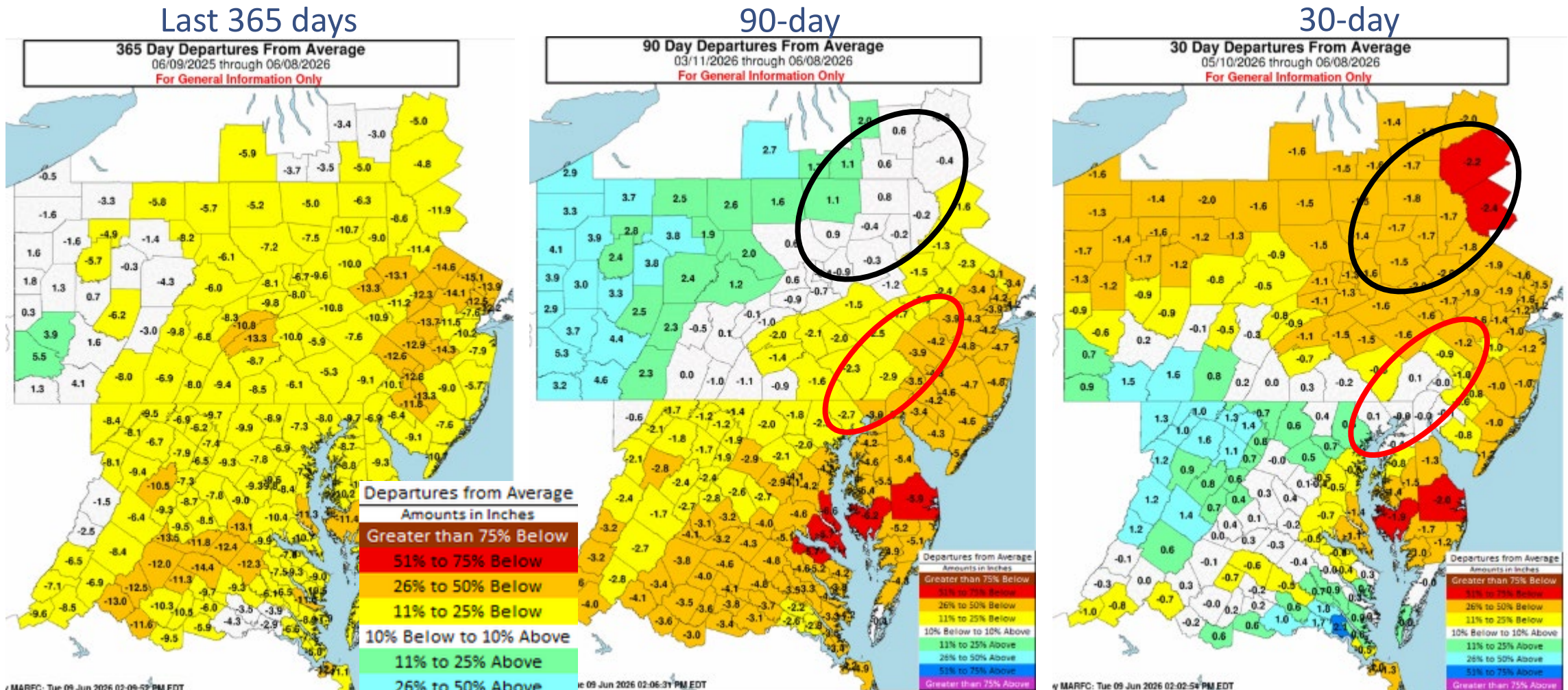


Departure from Normal Precipitation
Last 30 Days (June 8, 2026)



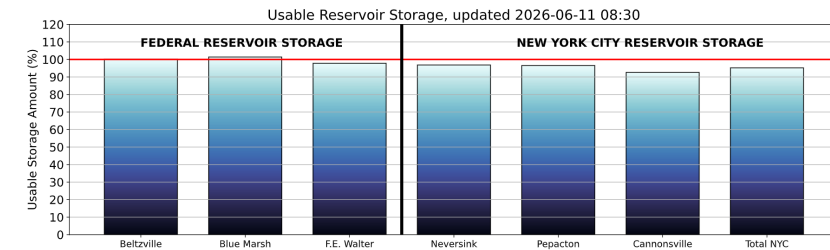
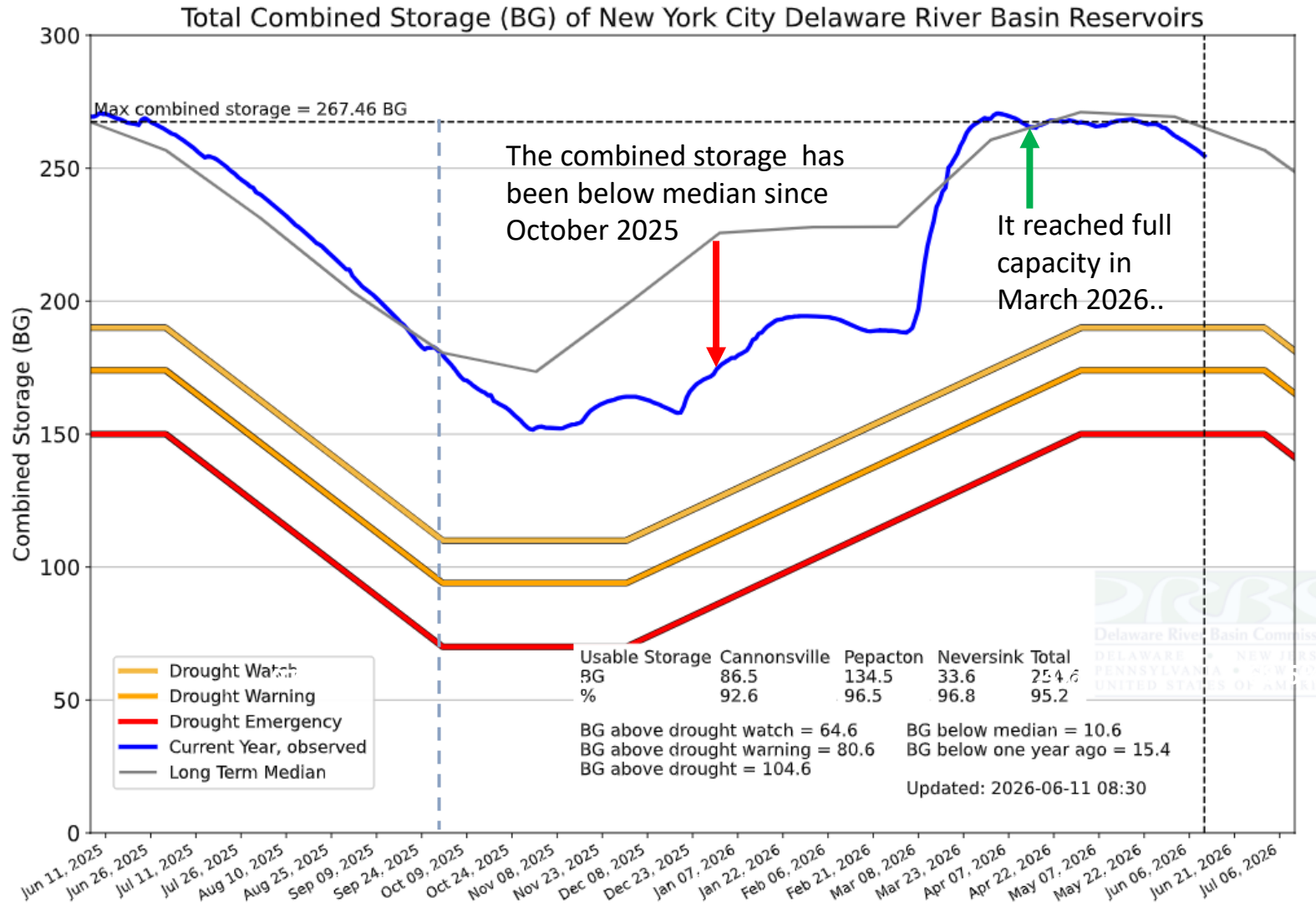
Precipitation Departures Summarized by County

Conditions have gradually deteriorated in northern Mid-Atlantic in the last 30 days.



New York City Reservoir Storage

NYC combined storage met the desired target on June 1st 2026



As of June 11, 2026

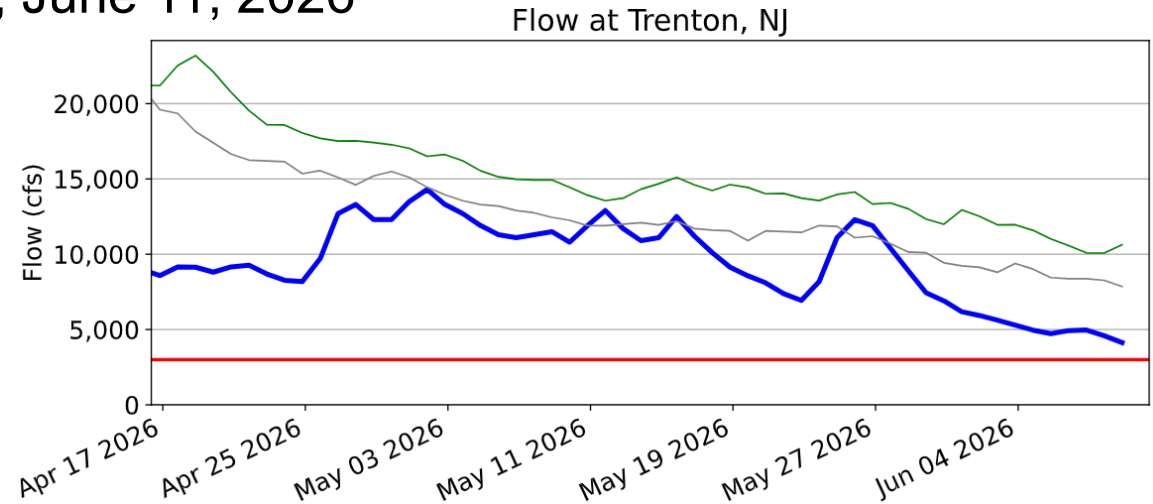
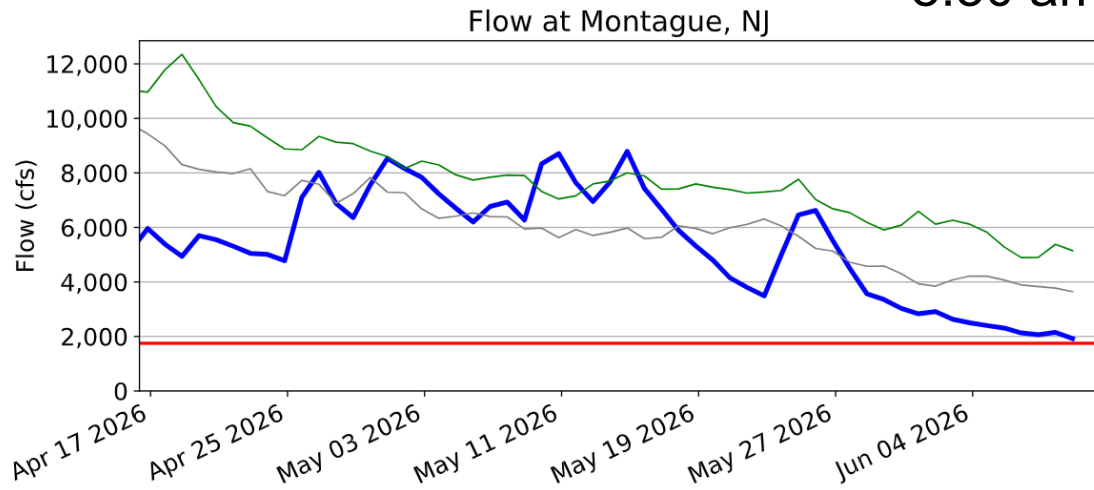
The combined storage in the New York City DRB reservoirs **254.5 BG**, which is **95.2 percent** of the combined capacity.

The combined storage is 64.6 BG above drought watch, 10.6 BG below the long-term median, and 15.4 BG below this time last year.

Streamflow Condition along Delaware River Mainstem

Flows along the mainstem remain below normal since August 2025.

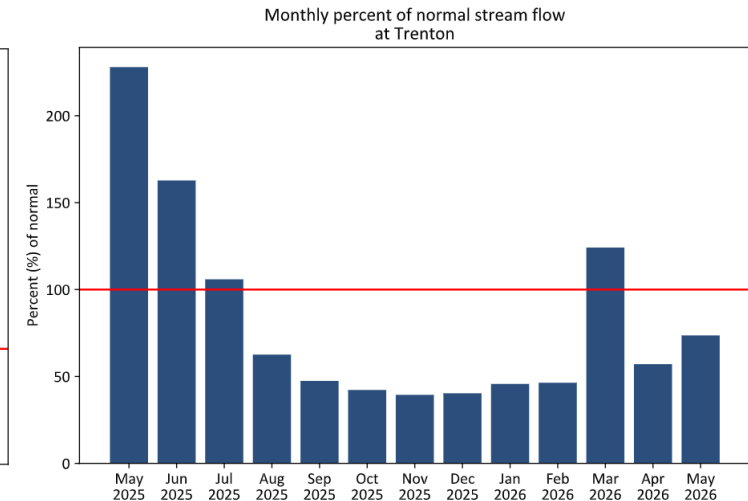
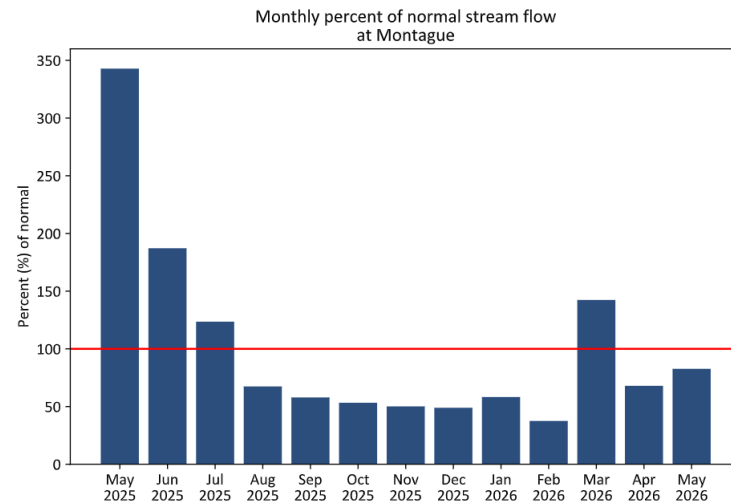
8:30 am, June 11, 2026



Map last updated: 8:30 am, June 11, 2026

Data Source: USGS

Monthly percent of normal
May 2025- May 2026



Streamflow Status, as of June 10, 2026

Most tributaries in central and lower basin are at below-normal conditions as of June 2, 2026. Some are at historical minimum.

Flow Conditions on average:

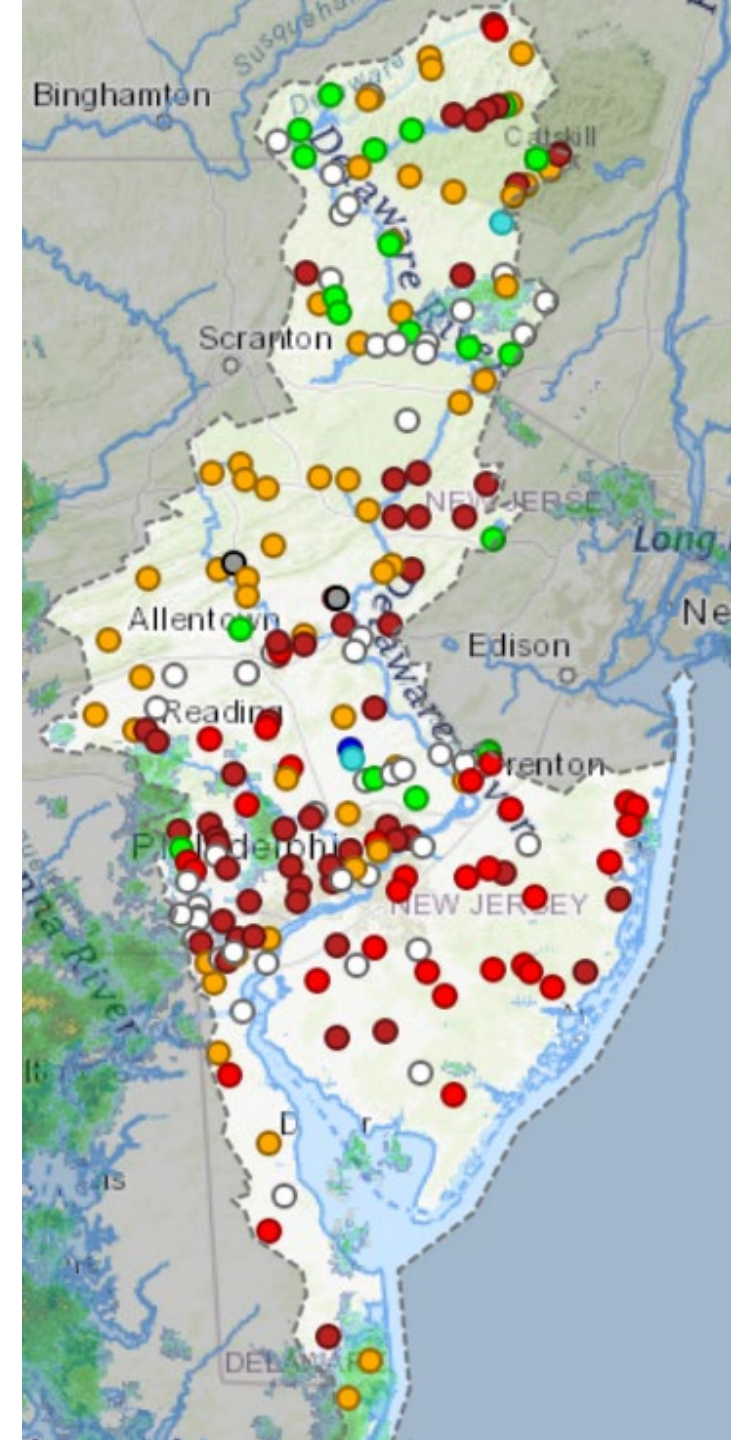
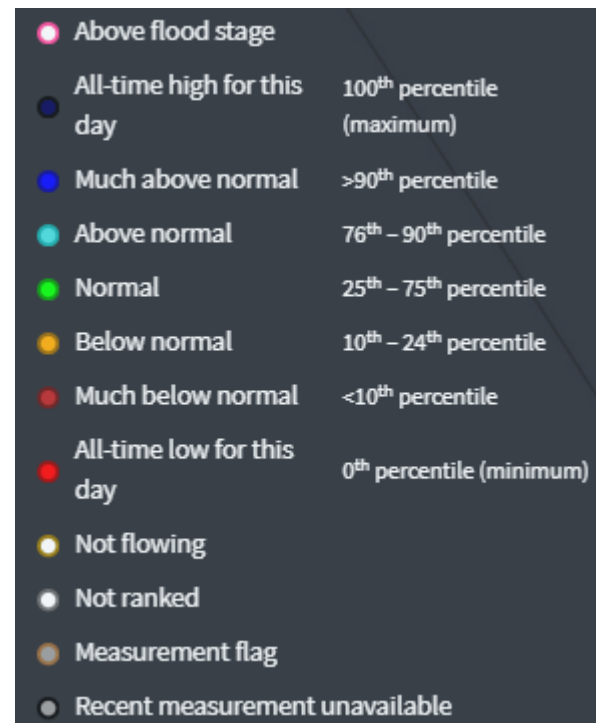
Upper Basin: Normal

Central Basin: Below to much below Normal

Lower Basin: much below Normal

Source: USGS

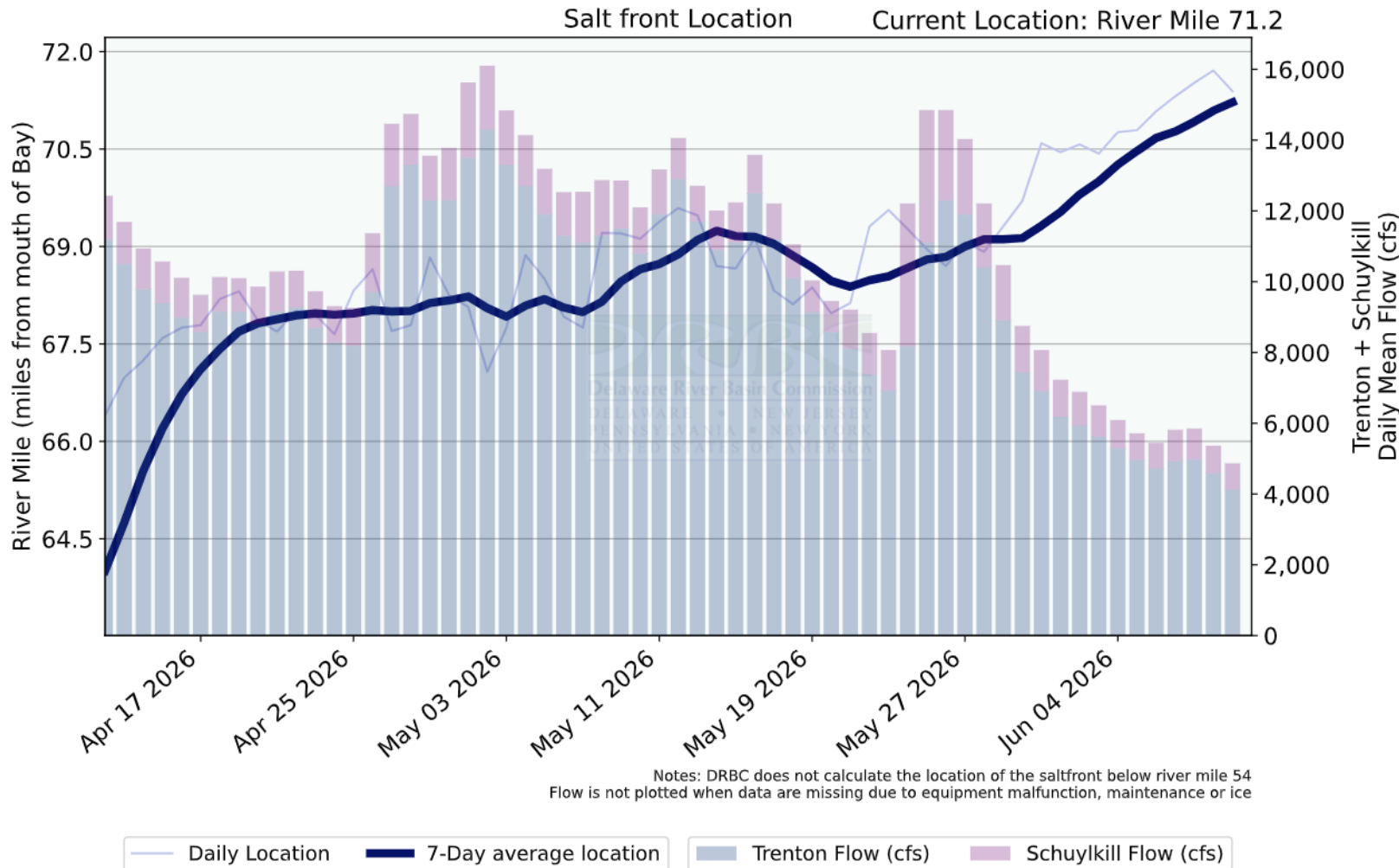
<https://dashboard.waterdata.usgs.gov/app/nwd/en/?aoi=huc-0204>



Salt Front Location

June 11, 2026

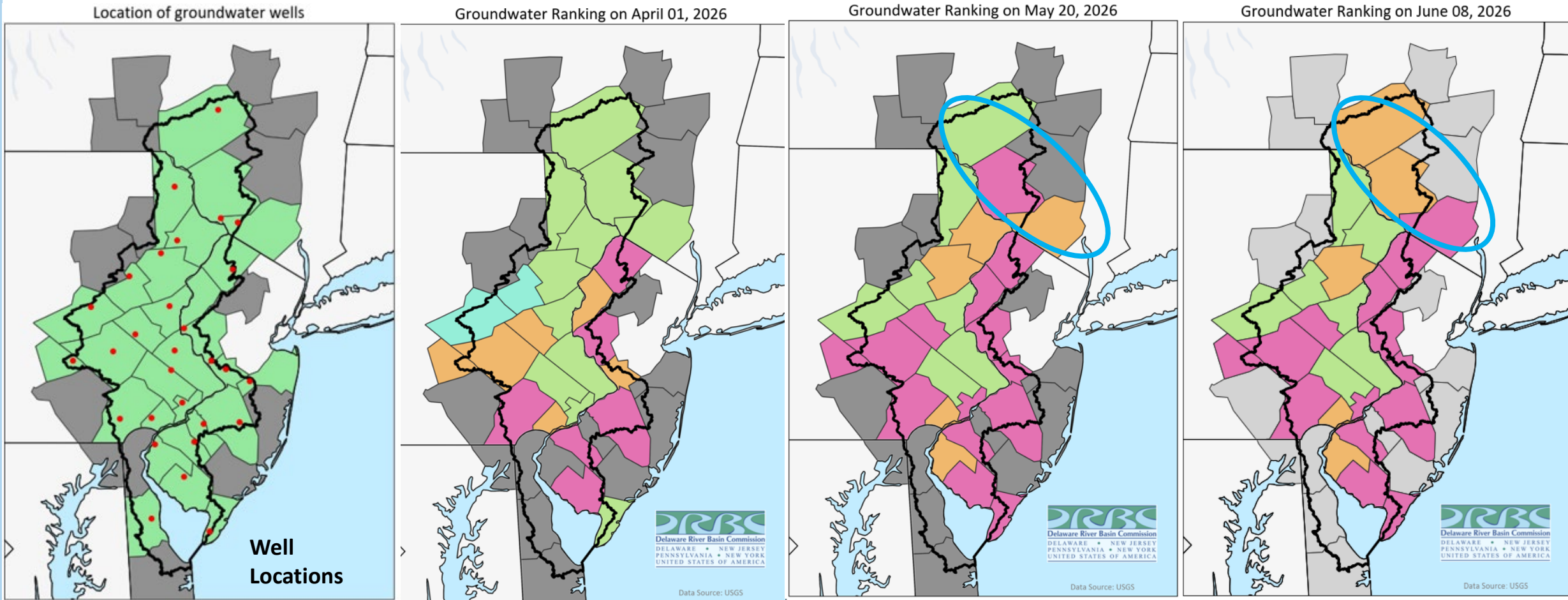
Salt front has been in the normal range since the beginning of this year.



Updated: 2026-06-11 08:32

Groundwater Levels

Groundwater levels have recovered gradually in some areas following the rainfalls in May.



— Basin Boundary
 • Well Location
 — Basin Boundary
 — County contains well
 — No well available within DRB



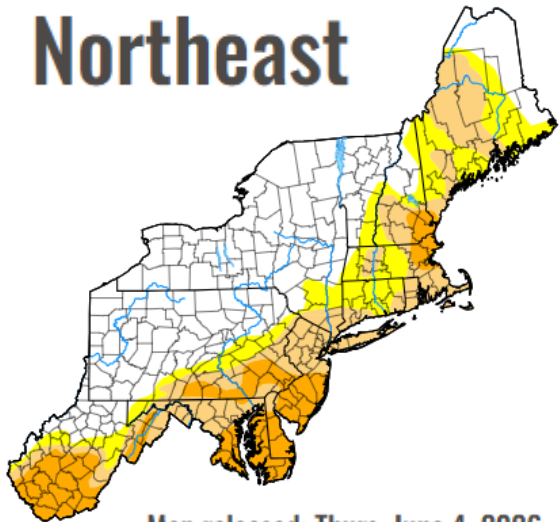
— Much Above Normal
 — Above Normal
 — Normal
 — Below Normal
 — Much Below Normal
 — Data unavailable

April 1 → May 20 → June 8, 2026

Drought Monitor

Continued dry weather in the Northeast led to widespread worsening of drought and abnormal dryness.

Northeast



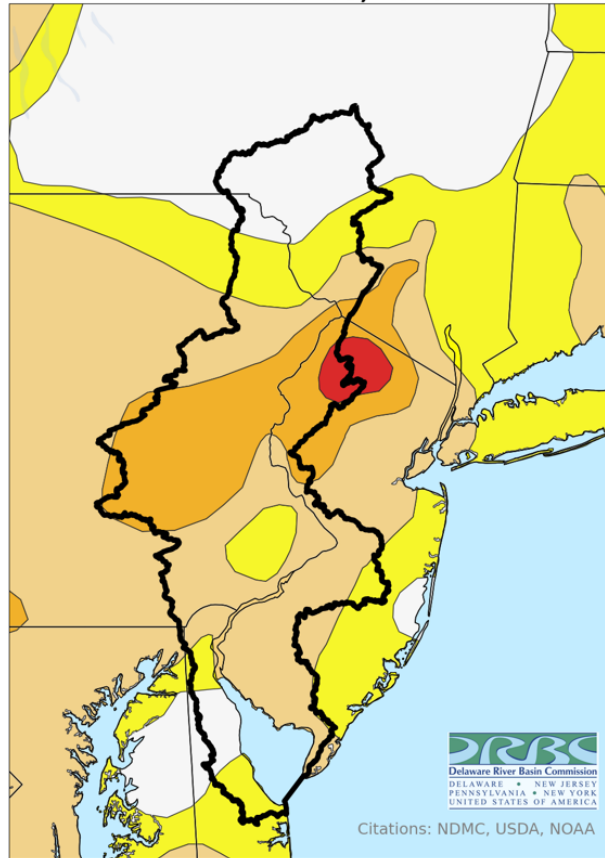
Map released: Thurs. June 4, 2026

Data valid: June 2, 2026 at 8 a.m. EDT

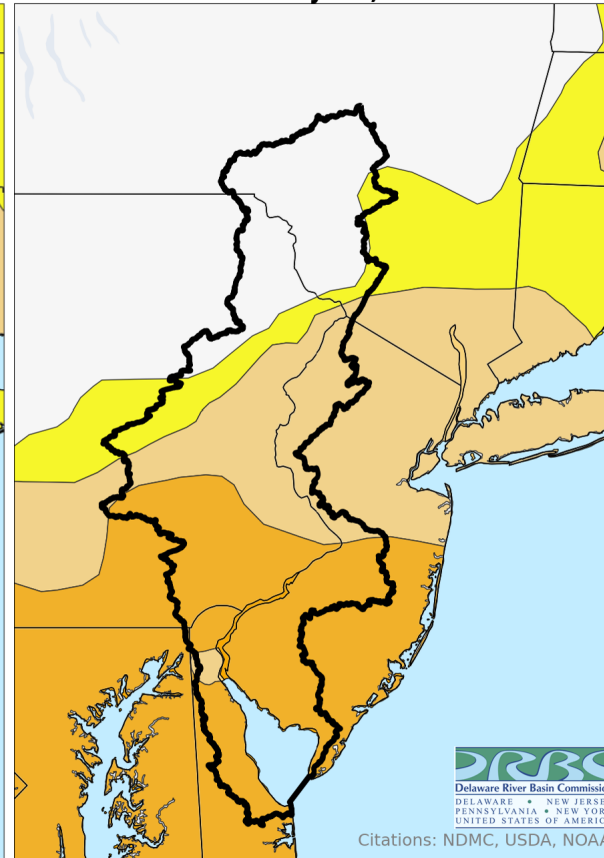
Intensity

- None
- D0 (Abnormally Dry)
- D1 (Moderate Drought)
- D2 (Severe Drought)
- D3 (Extreme Drought)
- D4 (Exceptional Drought)
- No Data

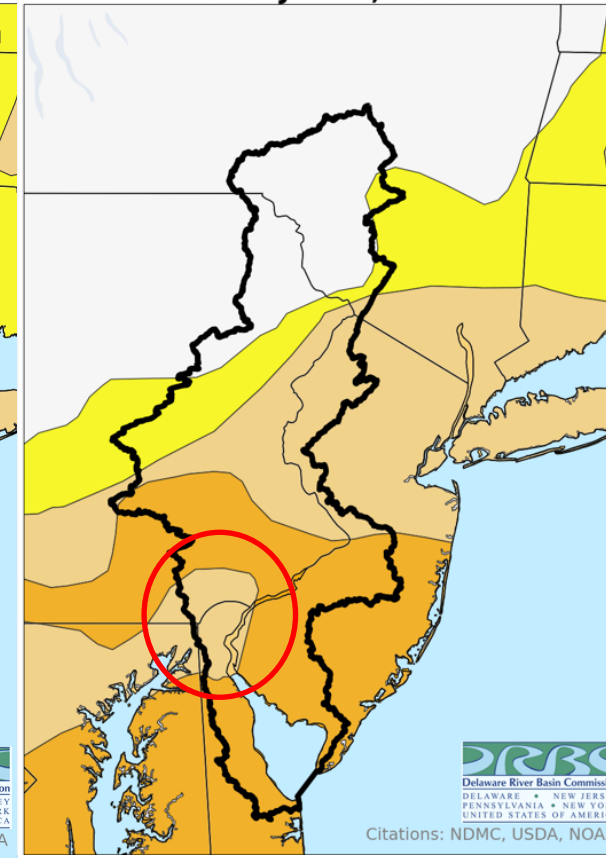
Drought Monitor
Valid: Mar 03, 2026



Drought Monitor
Valid: May 19, 2026



Drought Monitor
Valid: Jun 02, 2026



Data Source: USDM

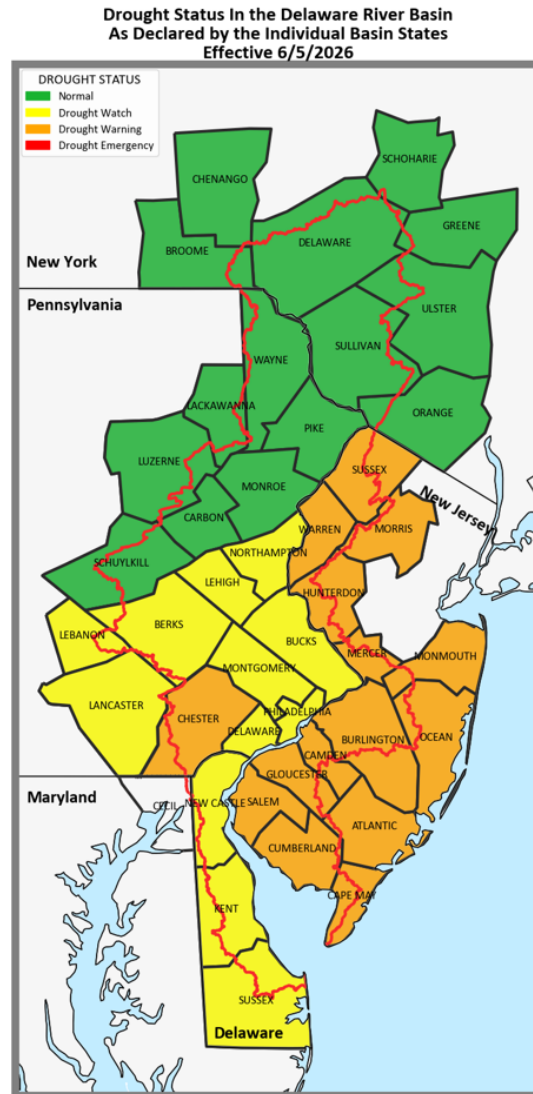
- Basin Boundary
- D0 - Abnormally Dry
- D1 - Moderate Drought
- D2 - Severe Drought
- D3 - Extreme Drought

March 3 → May 19 → June 2, 2026

Current Drought Status

DRB counties in PA, NJ and DE are under drought watch and warnings.

Last update
on June 5

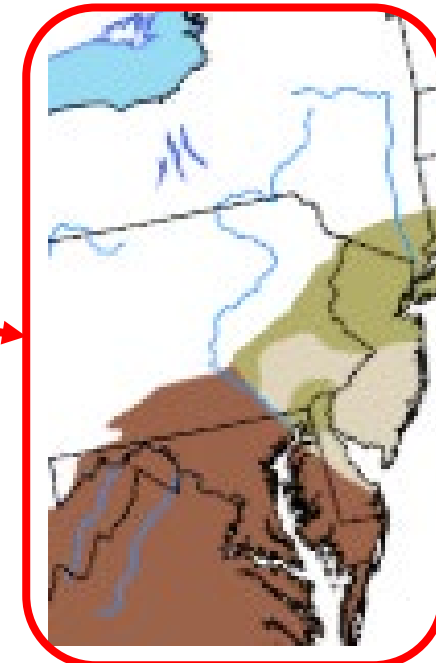
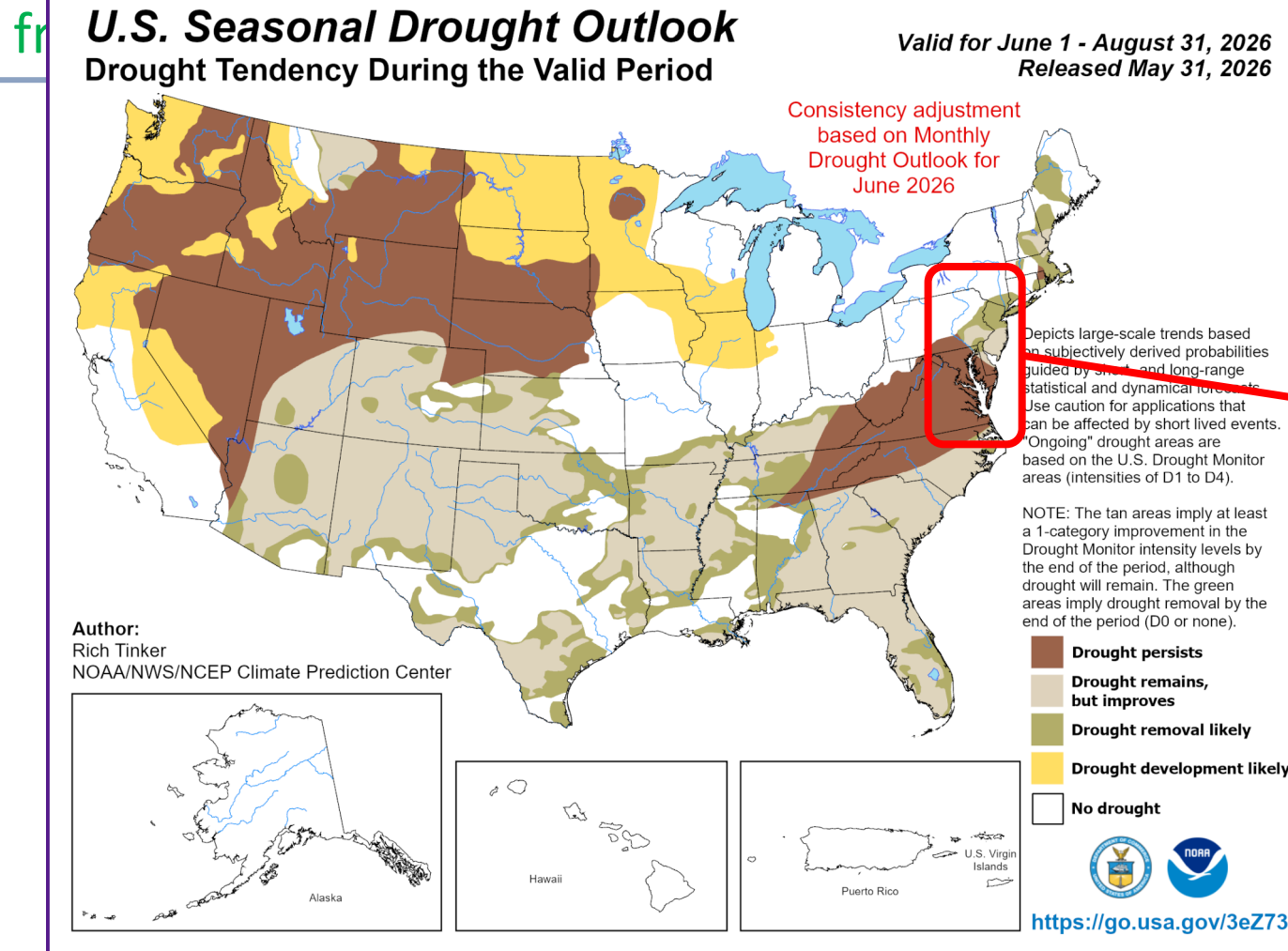


- DRB drought status is normal
- NJ: Statewide drought warning since December 2025
- DE: changed from Normal to Drought Watch on June 3, 2026
- NY: Normal since March 2026
- PA: Drought Watch in 6 DRB counties and drought warning for **Chester** county. Three counties returned to normal in early June.

<https://www.nj.gov/drbc/programs/flow/state-drought-links.html>

NOAA Seasonal Drought Outlook: June 1 – August 31, 2026

Delaware River Basin is expected to largely remain drought conditions could improve through the end of August, except a small area in northern New Jersey that may become



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

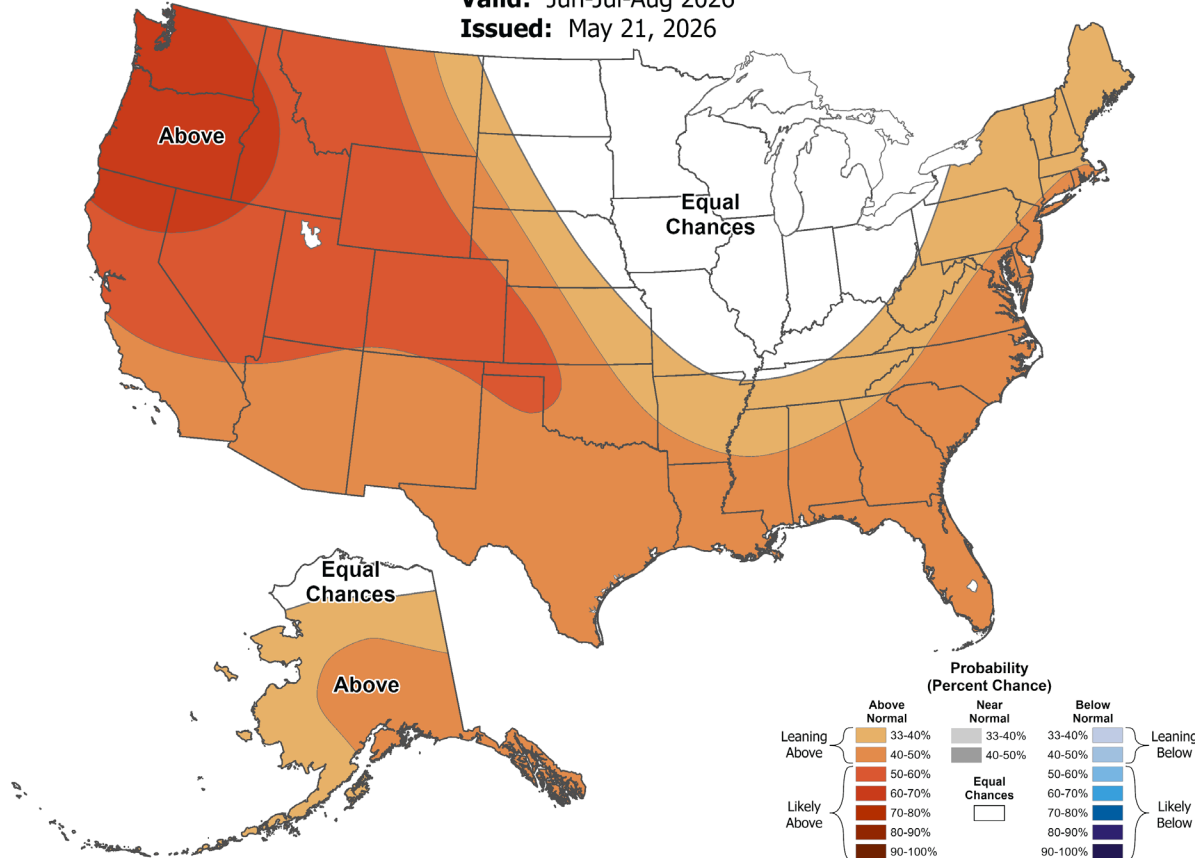
NOAA NWS Seasonal Outlook – Jun-Jul-Aug 2026

Warmer-than-normal temperatures with equal chances for precipitation



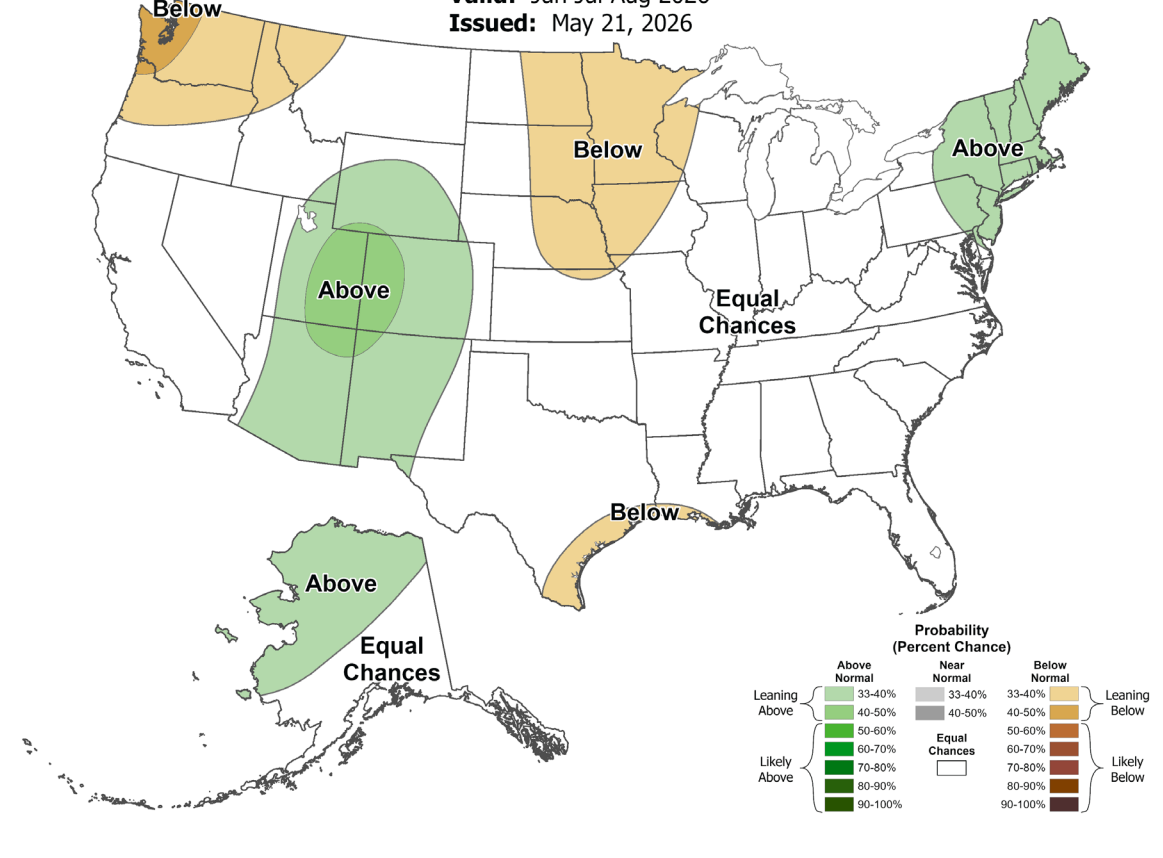
Seasonal Temperature Outlook

Valid: Jun-Jul-Aug 2026
Issued: May 21, 2026



Seasonal Precipitation Outlook

Valid: Jun-Jul-Aug 2026
Issued: May 21, 2026



Hurricane Season 2026



National Oceanic and
Atmospheric Administration
U.S. Department of Commerce

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NOAA predicts below-normal 2026 Atlantic hurricane season

Early preparation essential to staying safe all season

Focus areas: [Weather](#), [Climate](#)

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May 21, 2026

Source: NOAA

[NOAA predicts below-normal 2026 Atlantic hurricane season | National Oceanic and Atmospheric Administration](#)



Hydrologic conditions summary



- After prolonged dry conditions since July 2025, a hydrologic drought has developed across many parts of the Basin, resulting in reduced below-normal streamflow and declining groundwater levels.
- Drought status is gradually improving following a soaking rainfall in May 2026. Water-supply and basinwide flow operation status is normal as of June 3, 2026. Flows on the Delaware River mainstem and many tributaries are at below-normal conditions.
- The three-month outlook indicates warmer-than-average temperatures this summer and 40-50% chance of above-normal precipitation.

Enjoy the Summer Season!