



# Hydrologic Conditions

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Water Resource Operations

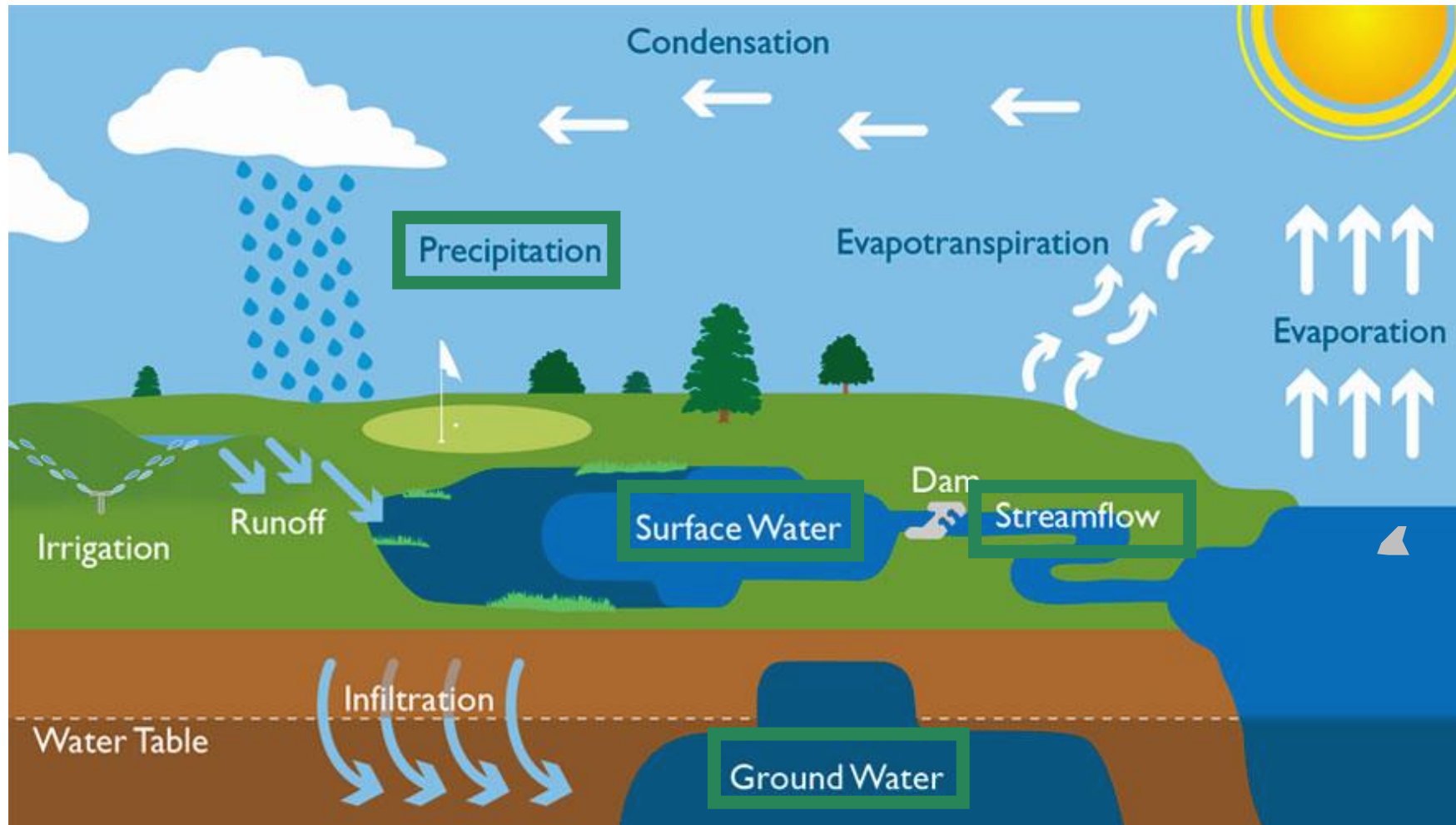
**February 19<sup>th</sup>, 2025**  
*Water Management Advisory  
Committee Meeting*



Presented to an advisory committee of the DRBC on February 19, 2025. Contents should not be published or re-posted in whole or in part without permission of the DRBC.

# The Hydrologic Cycle

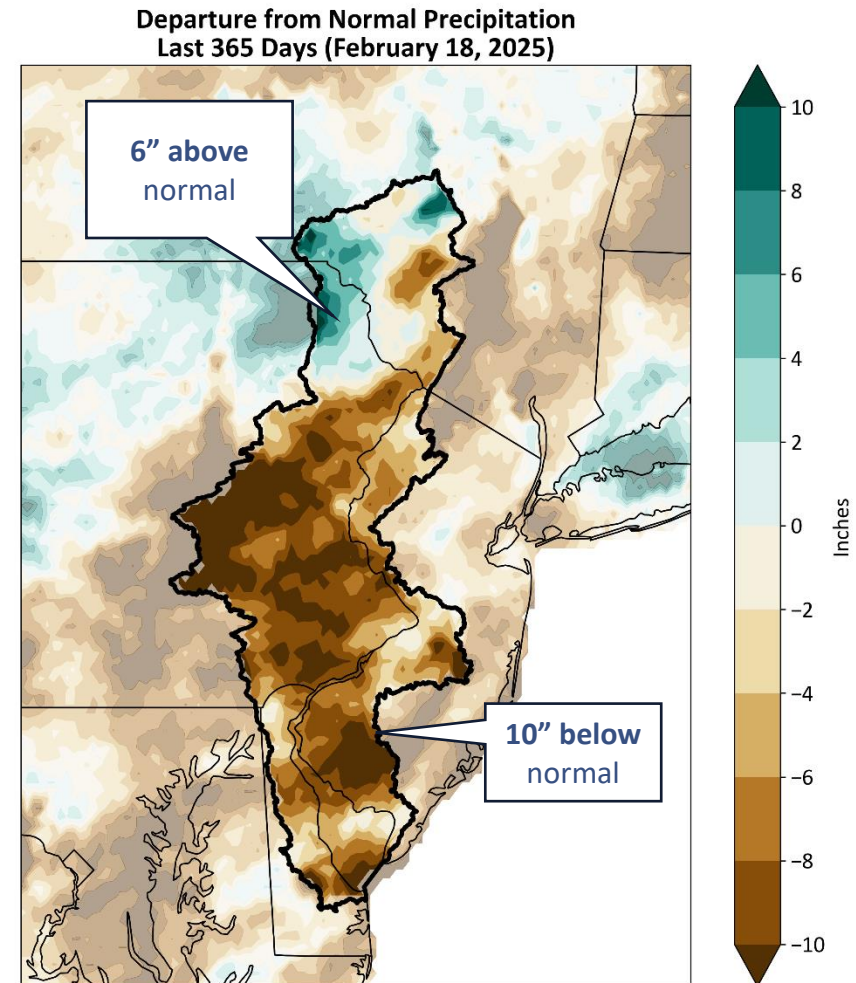
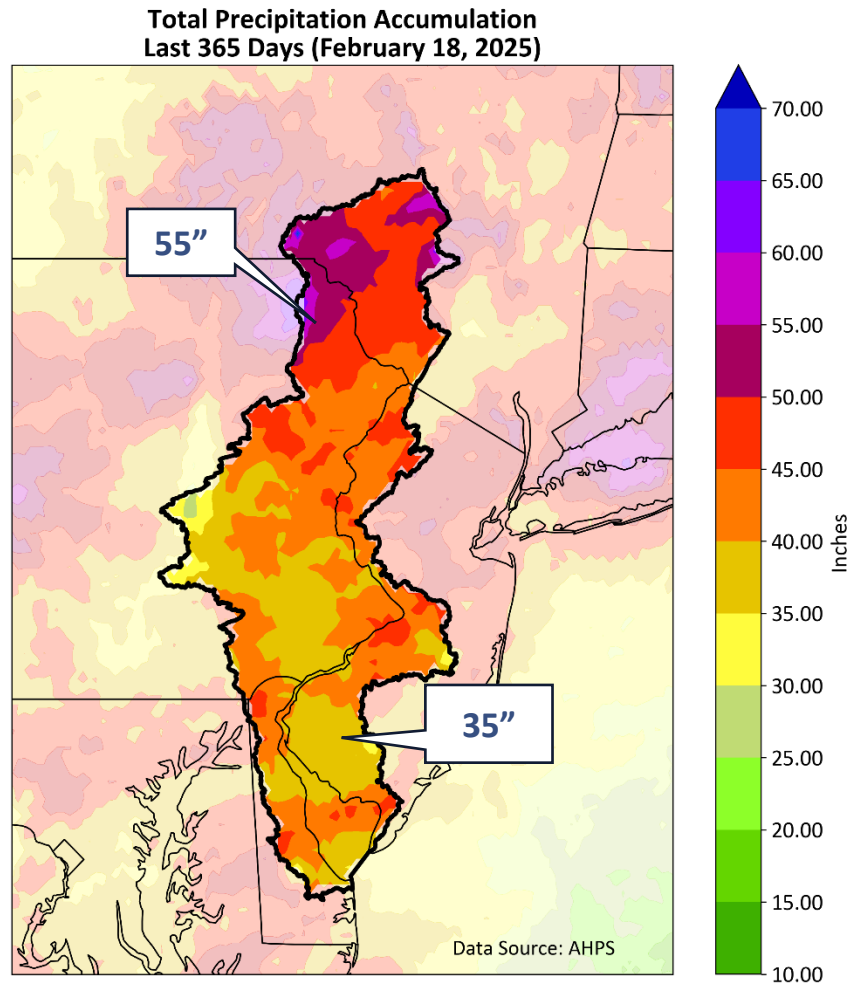
Water moves around the earth through air, soil, and over land.



Graphic courtesy of Pike County Soil Conservation District

# Precipitation over the last year

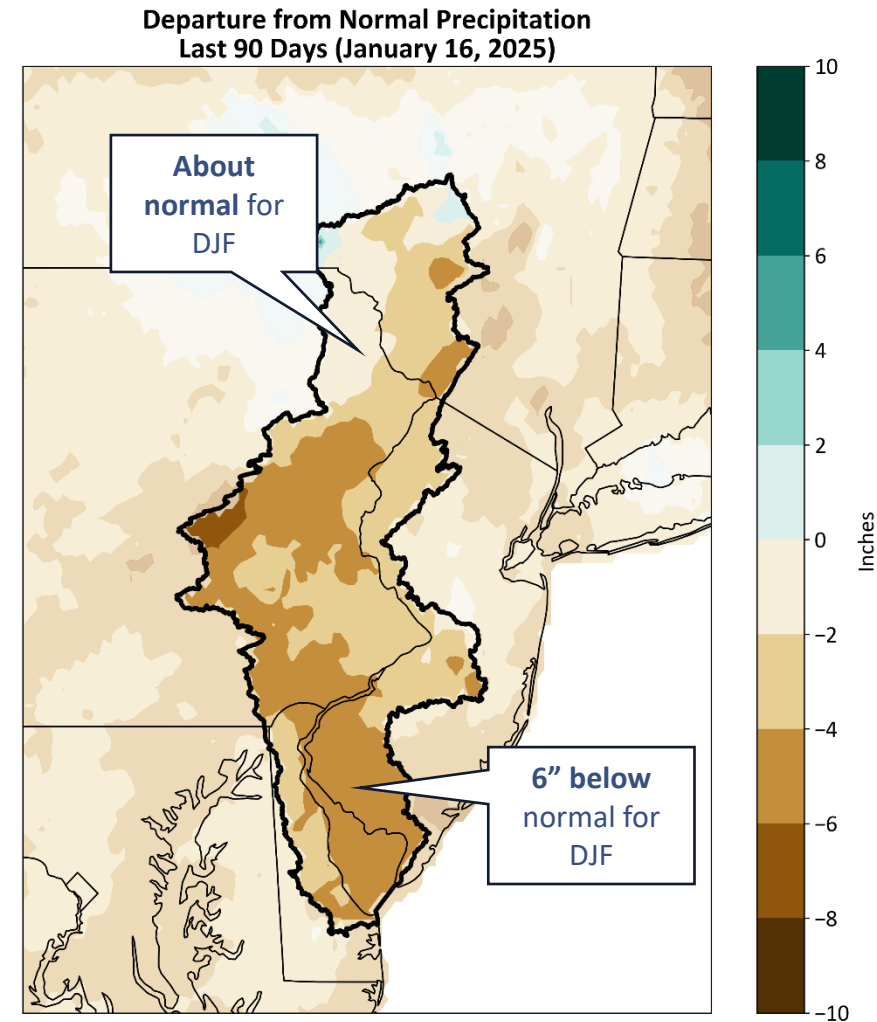
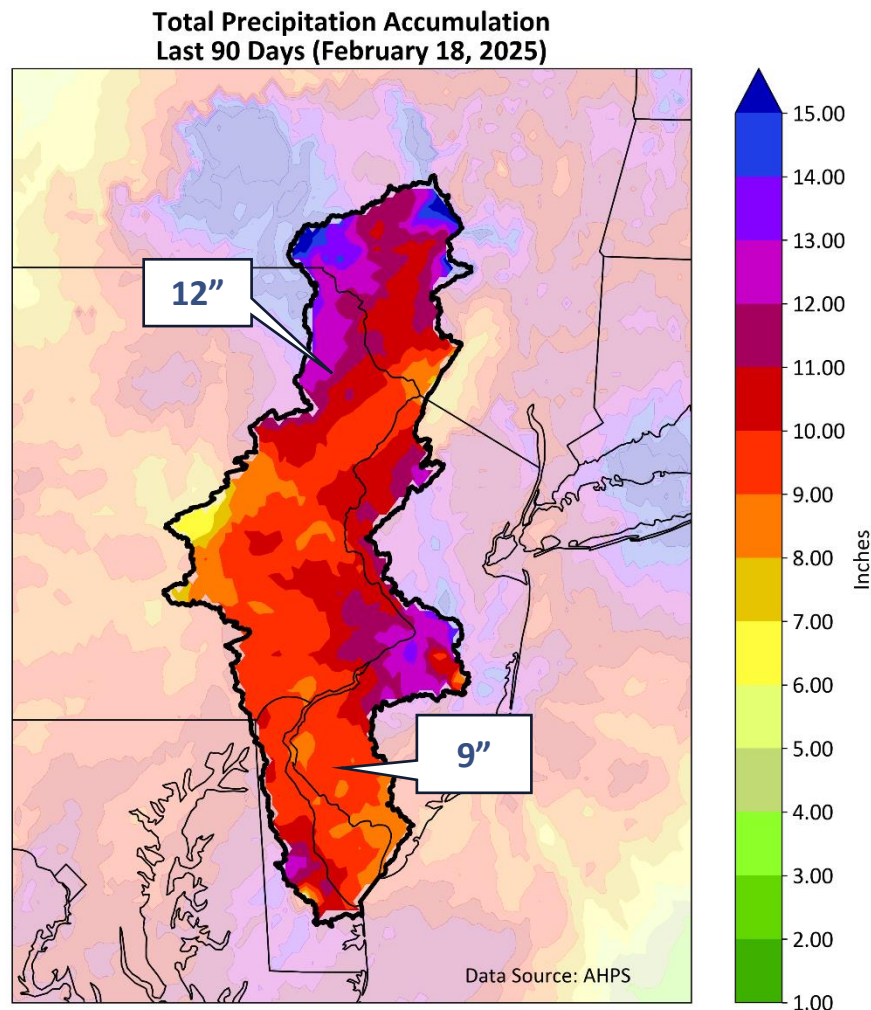
Most of the basin has received below normal precipitation except for the northwest.





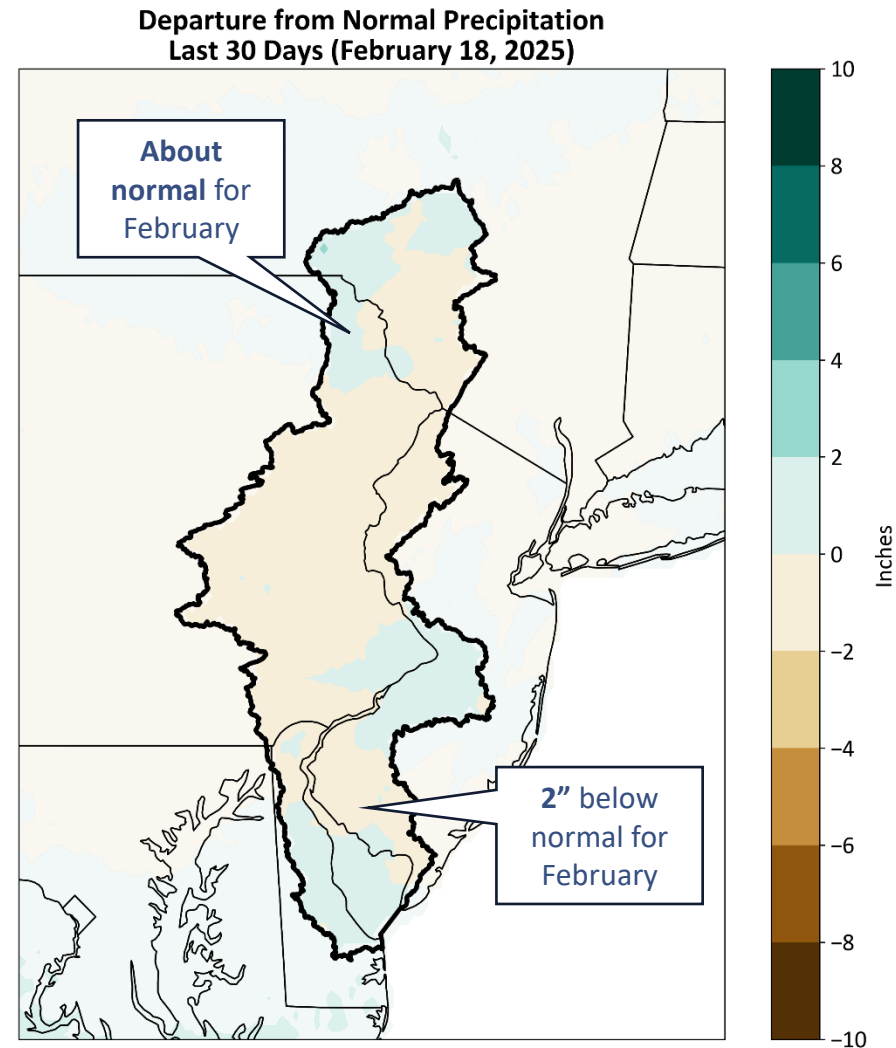
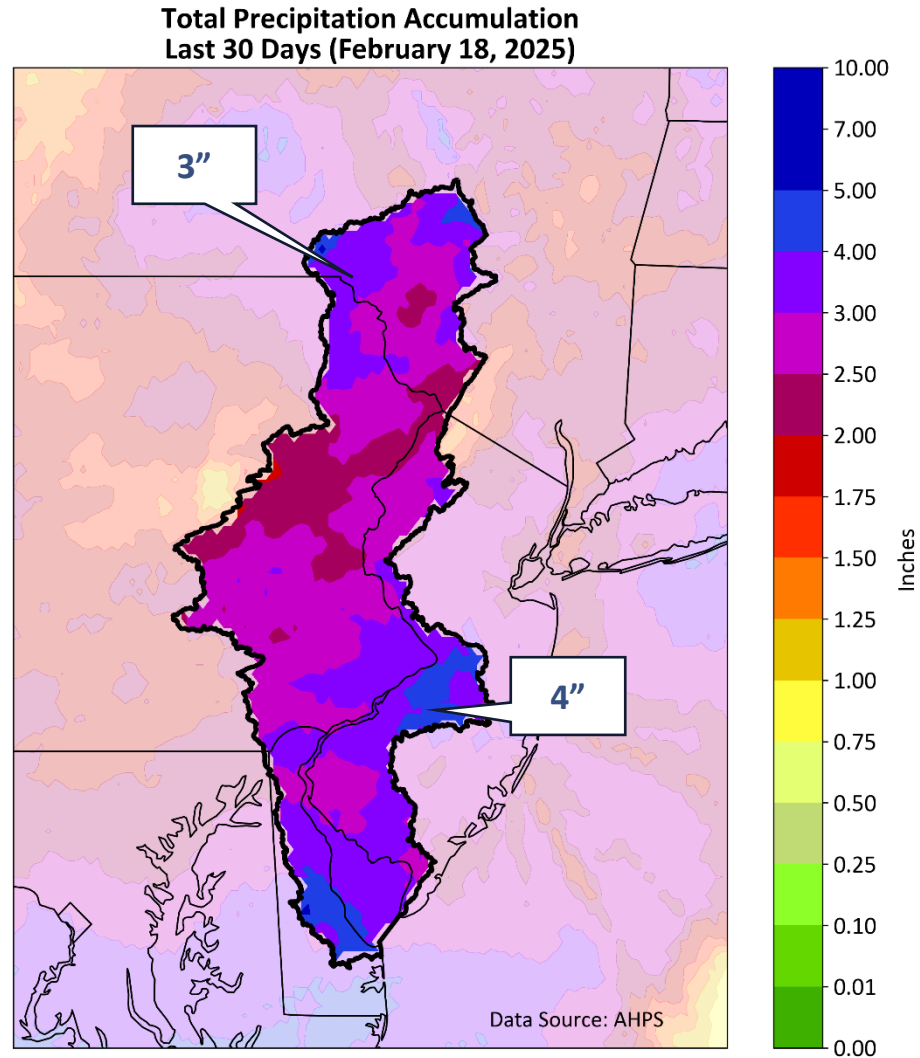
# Precipitation – 90 days

The past three-month period was slightly wetter than the previous 90 days.



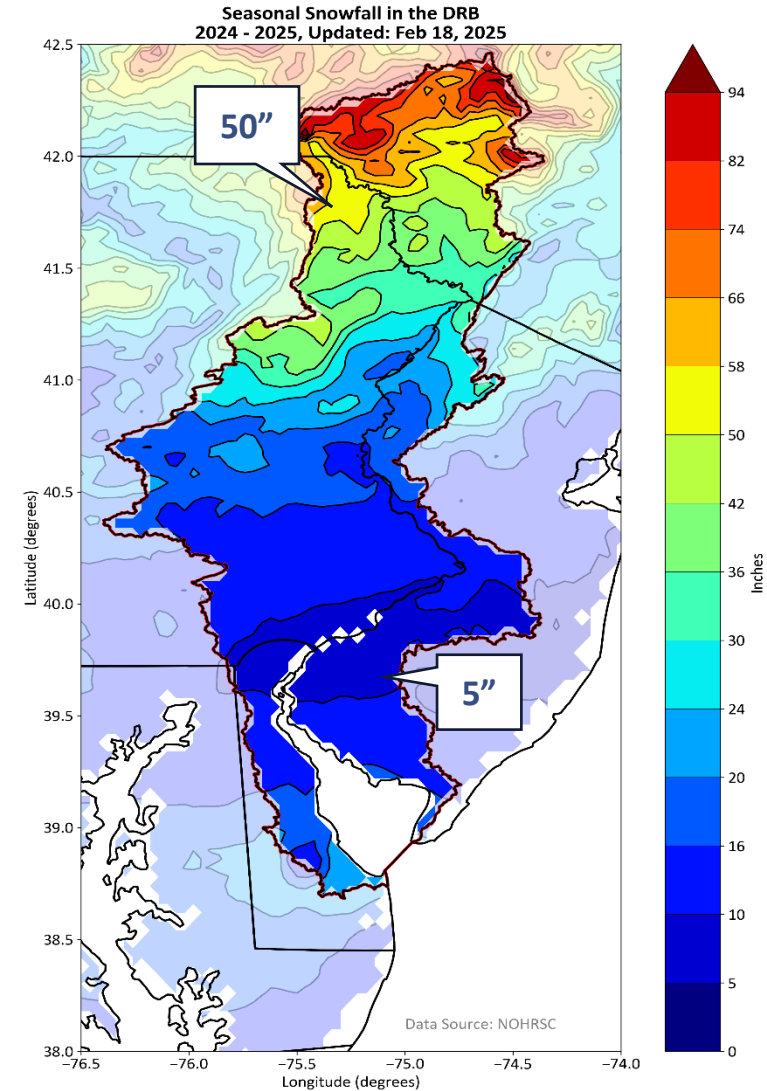
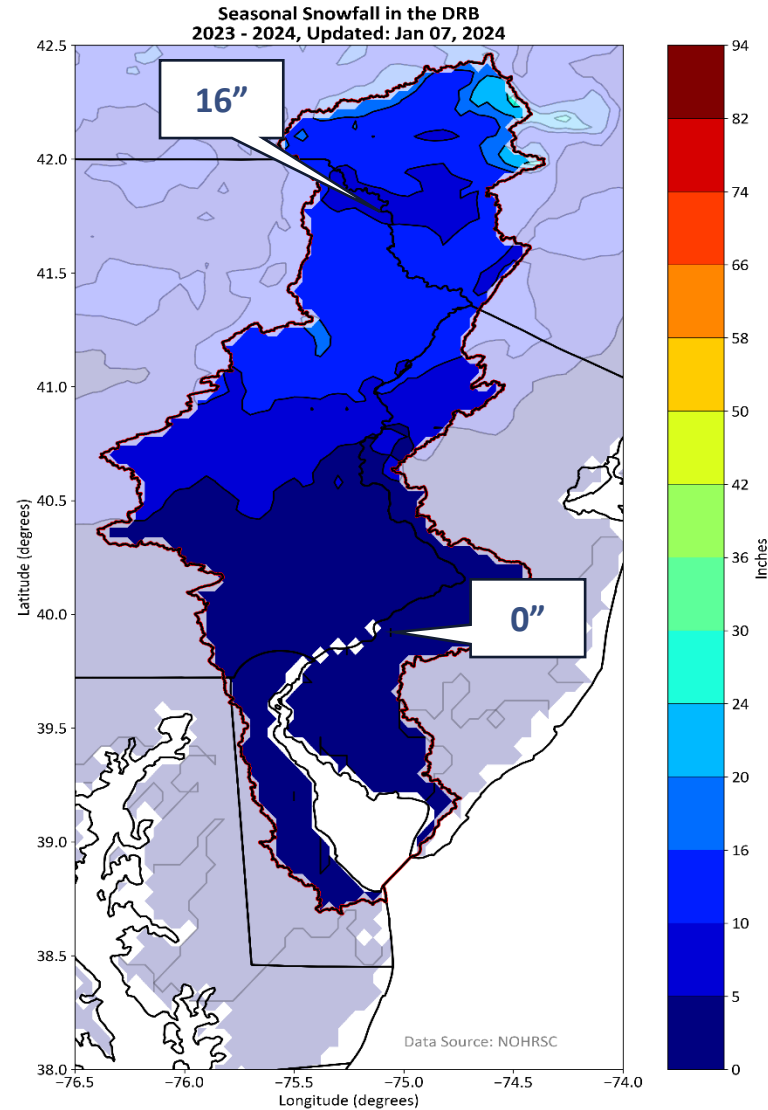
# Precipitation – past 30 days

January was slightly drier than normal in many parts of the basin.



# Snowfall

Snowfall this year has far exceeded the total from last season.

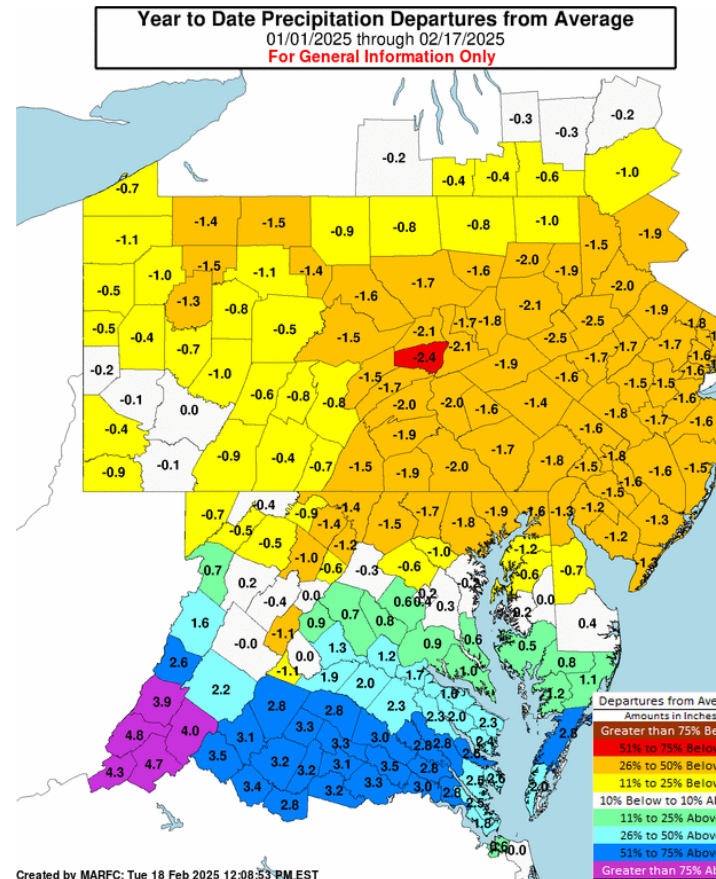




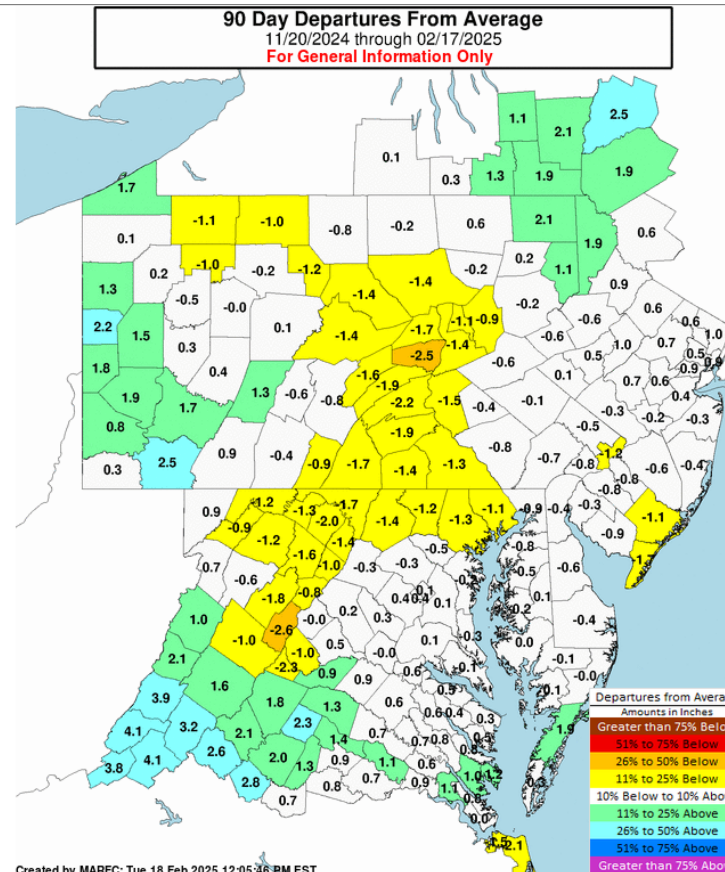
# Precipitation Departures

Conditions have slightly recovered in the last 90 days with rainfall.

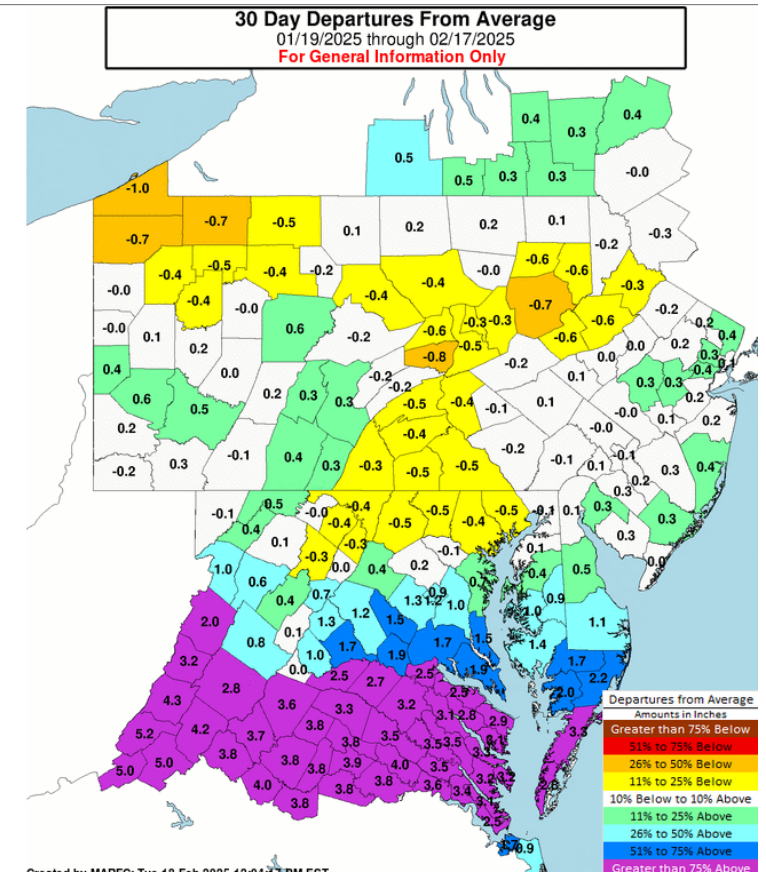
Year-to-date



90-day



30-day



# Streamflow









Most tributaries have recovered to normal conditions with recent precipitation but still dry in south.

## Flow Conditions:

Upper Basin: Normal

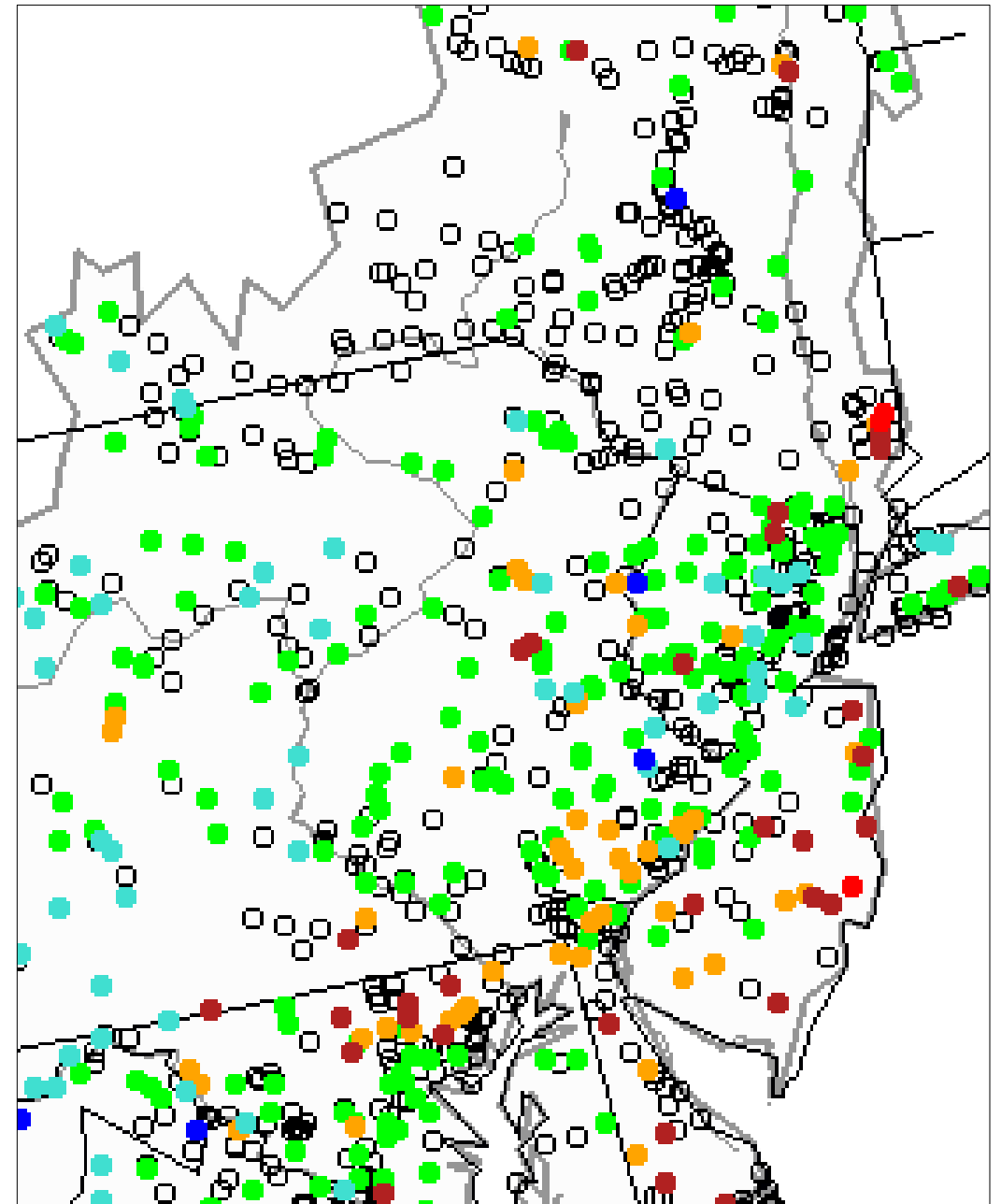
Central Basin: Normal

Lower Basin: Below Normal

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

Map last updated:  
12:30 pm, February 18, 2025

Data Source: USGS

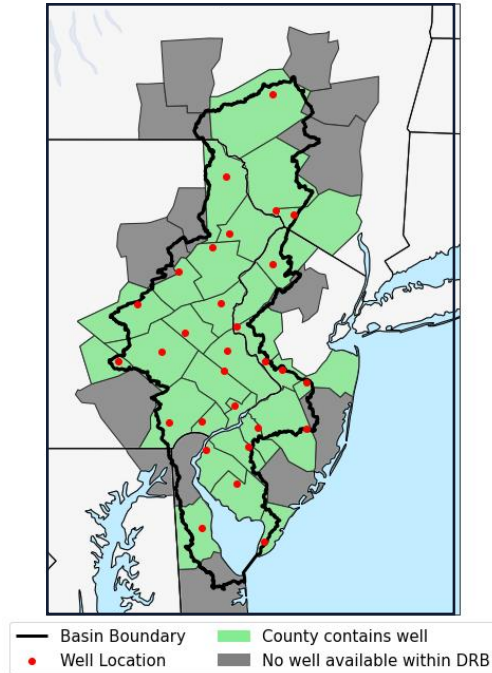




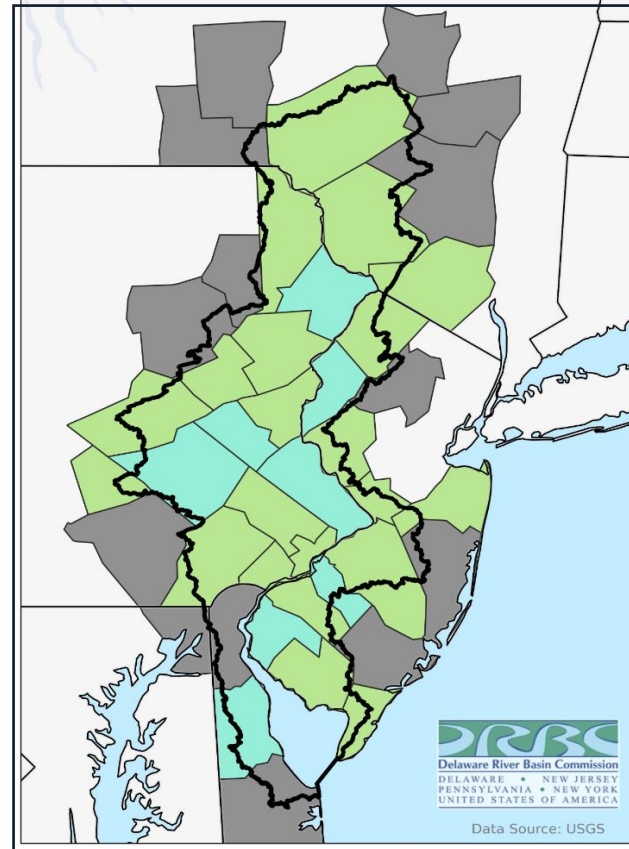
# Groundwater Levels

Groundwater levels have dropped significantly with the lack of rainfall in the fall.

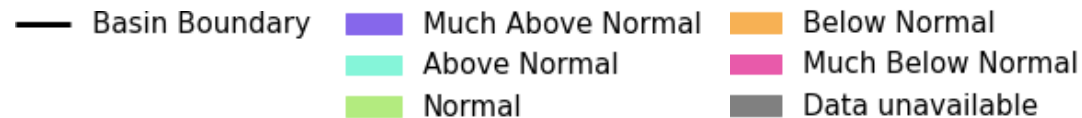
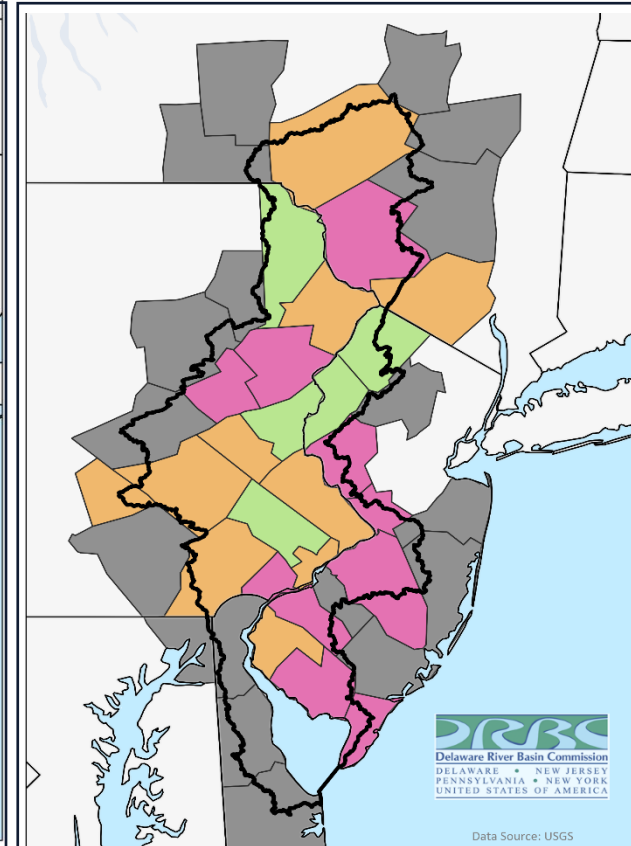
Reference Wells



October 15, 2024

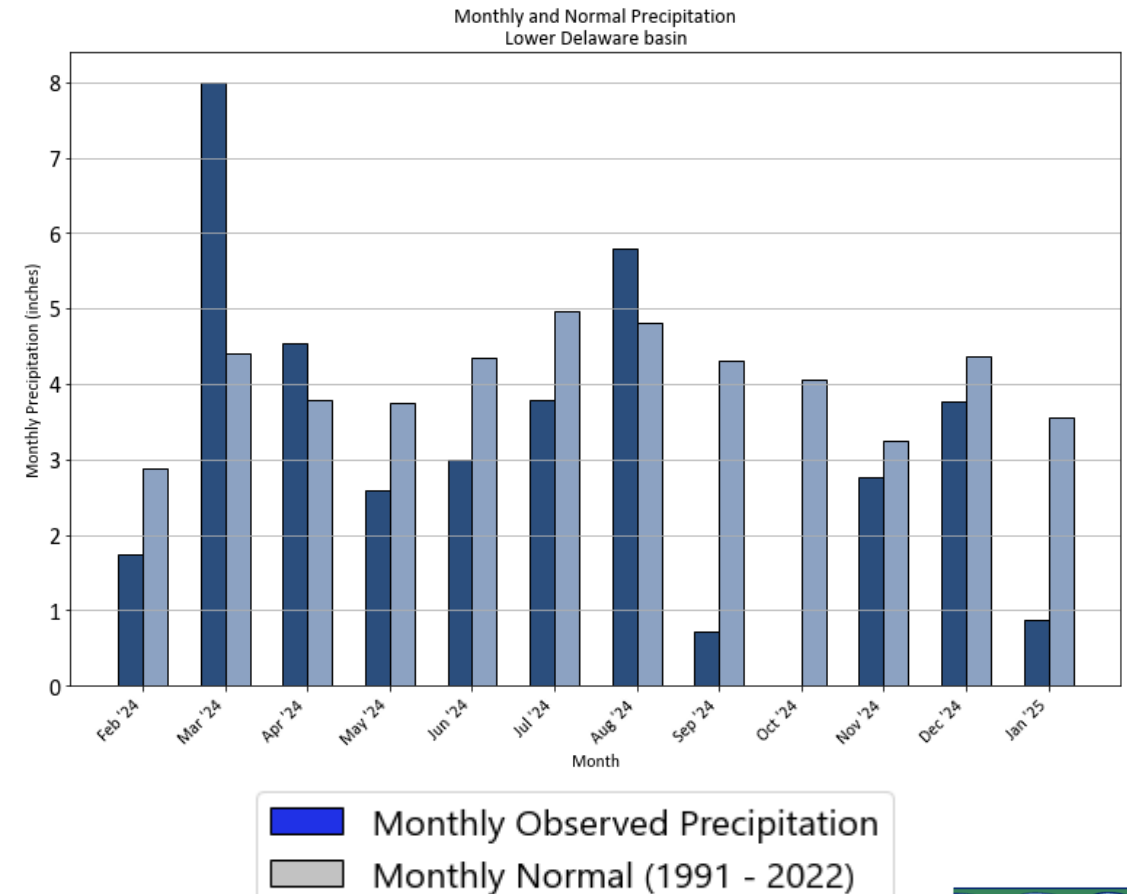
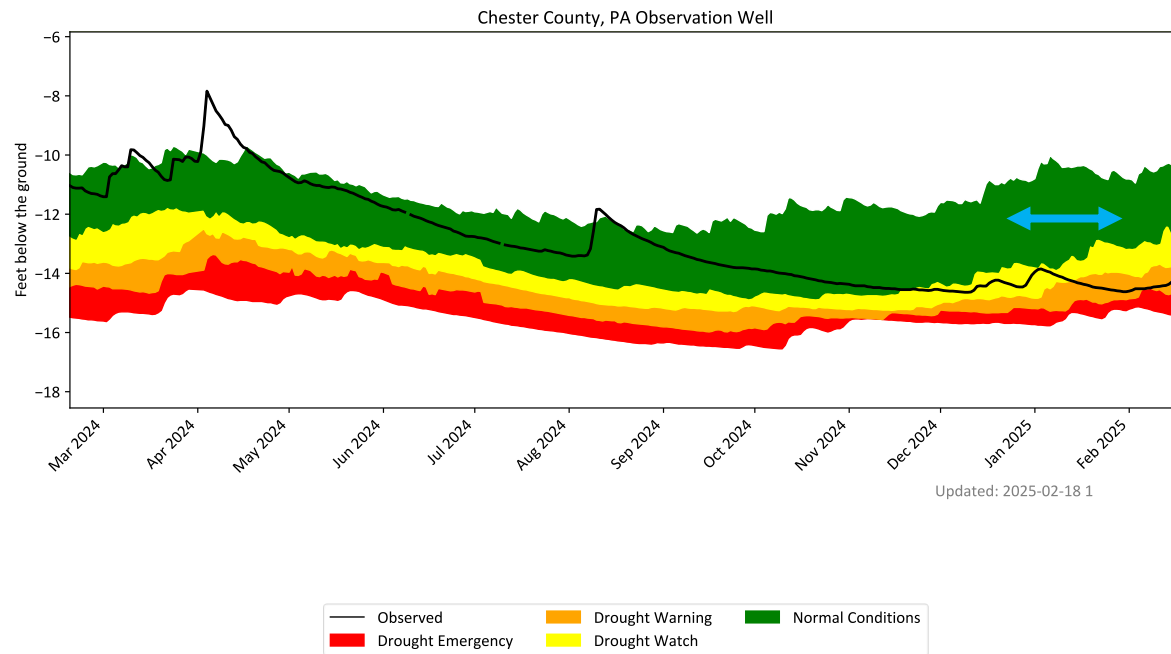


February 17, 2025



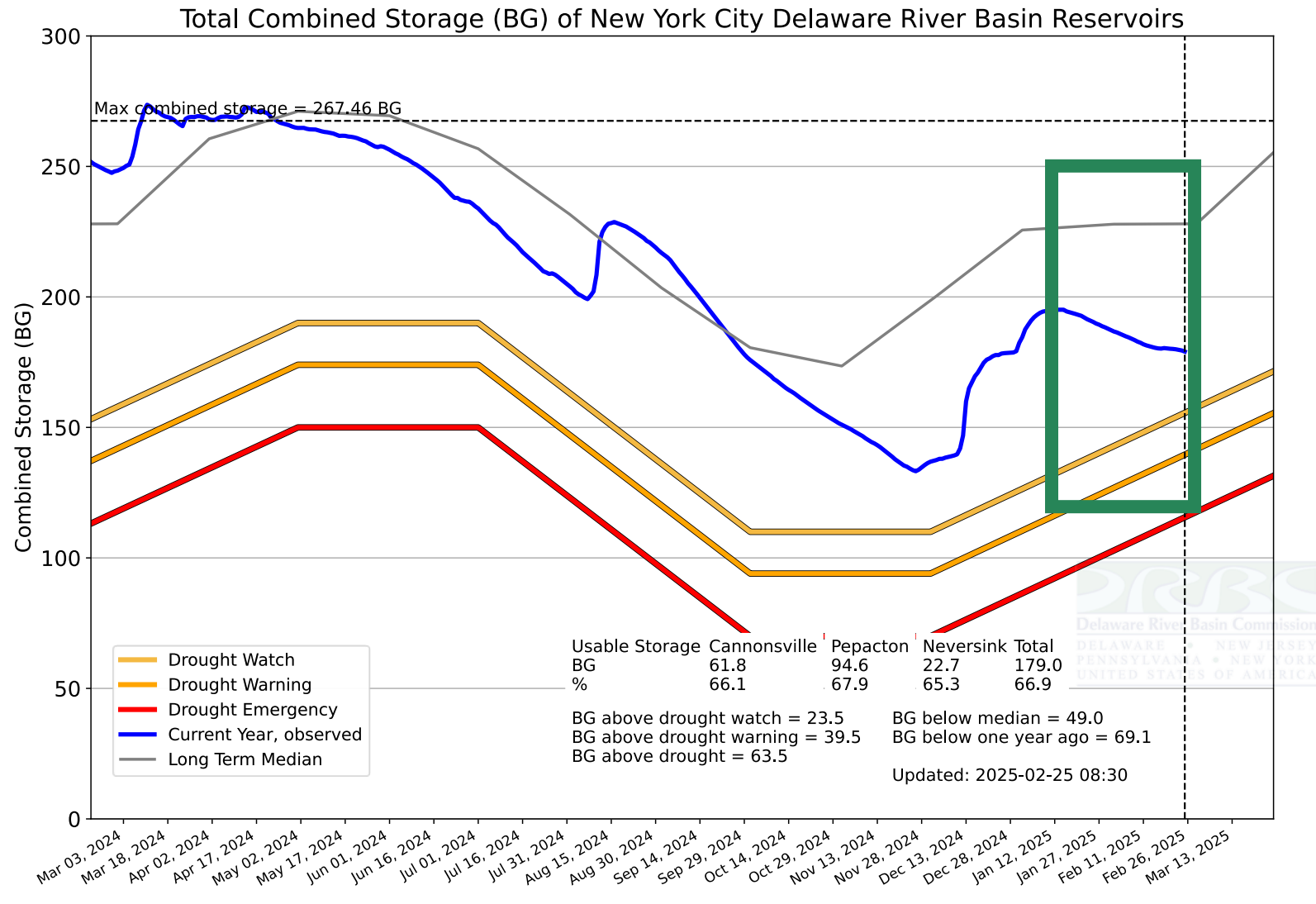
# Groundwater Levels

Groundwater levels starting to show a decline with lack of rainfall.



# New York City Reservoir Storage

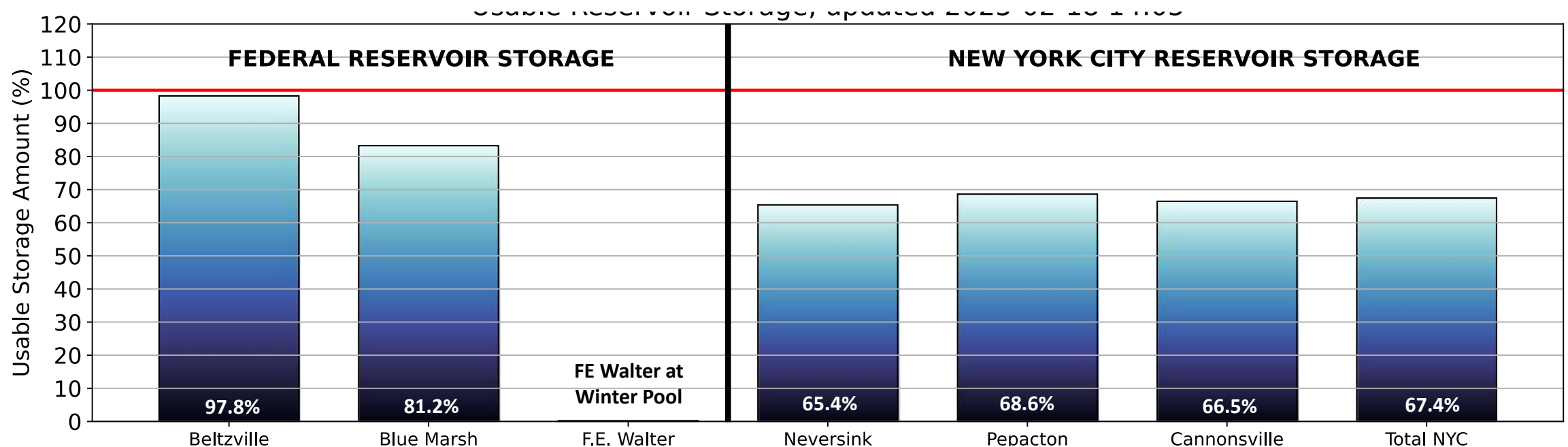
Recent precipitation is reflected in the combined storage.





# Reservoir Storage for Flow Management

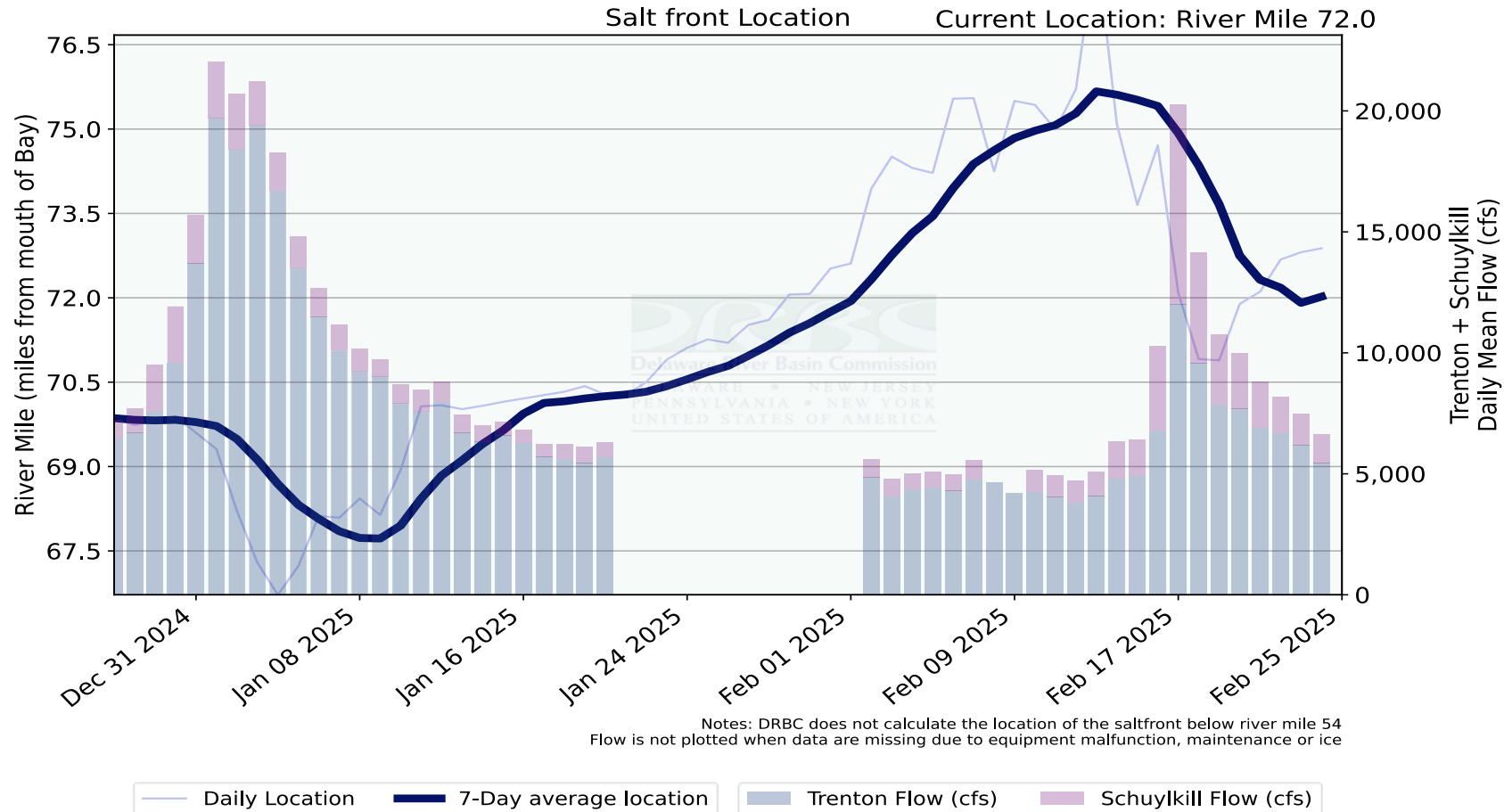
The reservoirs have begun to recover from the dry fall due to increased precipitation.



Releases from Lower and Upper Basin Reservoirs are used to meet flow objectives.

# Salt Front Location

Salt front has moved upstream with the lack of rainfall.

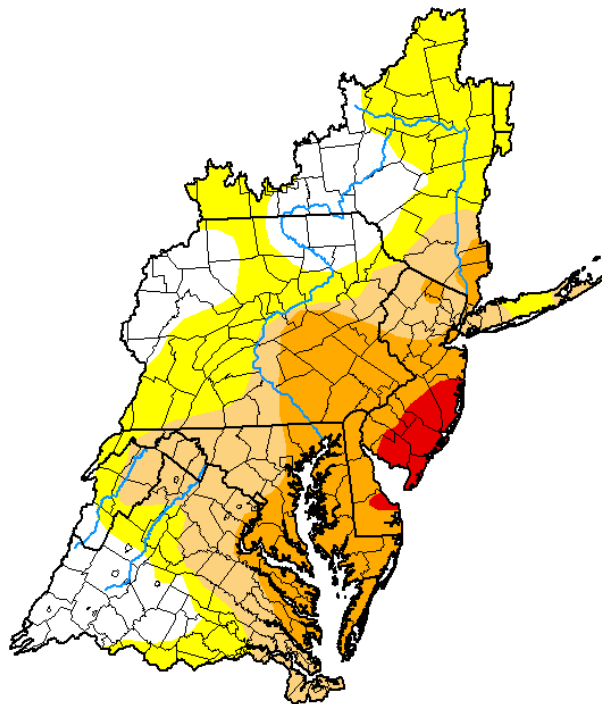


Updated: 2025-02-25 08:33

# Drought Monitor

Conditions have remained dry with a moderate drought in many parts of the Basin.

## U.S. Drought Monitor Mid Atlantic Watershed



**February 11, 2025**  
(Released Thursday, Feb. 13, 2025)  
Valid 7 a.m. EST

	Drought Conditions (Percent Area)					
	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	22.85	77.15	45.63	23.99	2.84	0.00
Last Week 02-04-2025	15.46	84.54	50.19	25.66	2.84	0.00
3 Months Ago 11-12-2024	0.58	99.42	72.25	32.48	2.59	0.00
Start of Calendar Year 01-01-2025	21.86	78.14	47.78	20.53	2.84	0.00
Start of Water Year 10-01-2024	54.36	45.64	11.61	2.50	0.40	0.00
One Year Ago 02-13-2024	99.77	0.23	0.00	0.00	0.00	0.00

### Intensity



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>

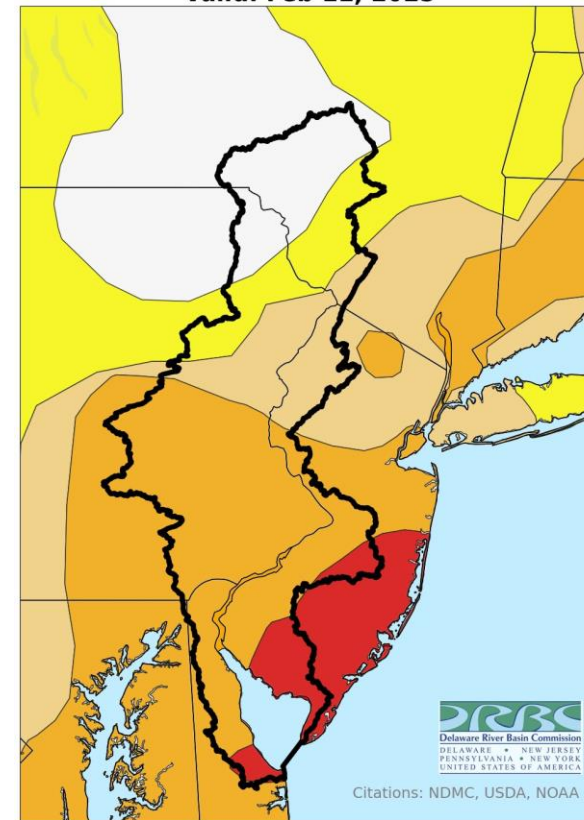
### Author

Lindsay Johnson  
National Drought Mitigation Center



[droughtmonitor.unl.edu](https://droughtmonitor.unl.edu)

**Drought Monitor**  
Valid: Feb 11, 2025

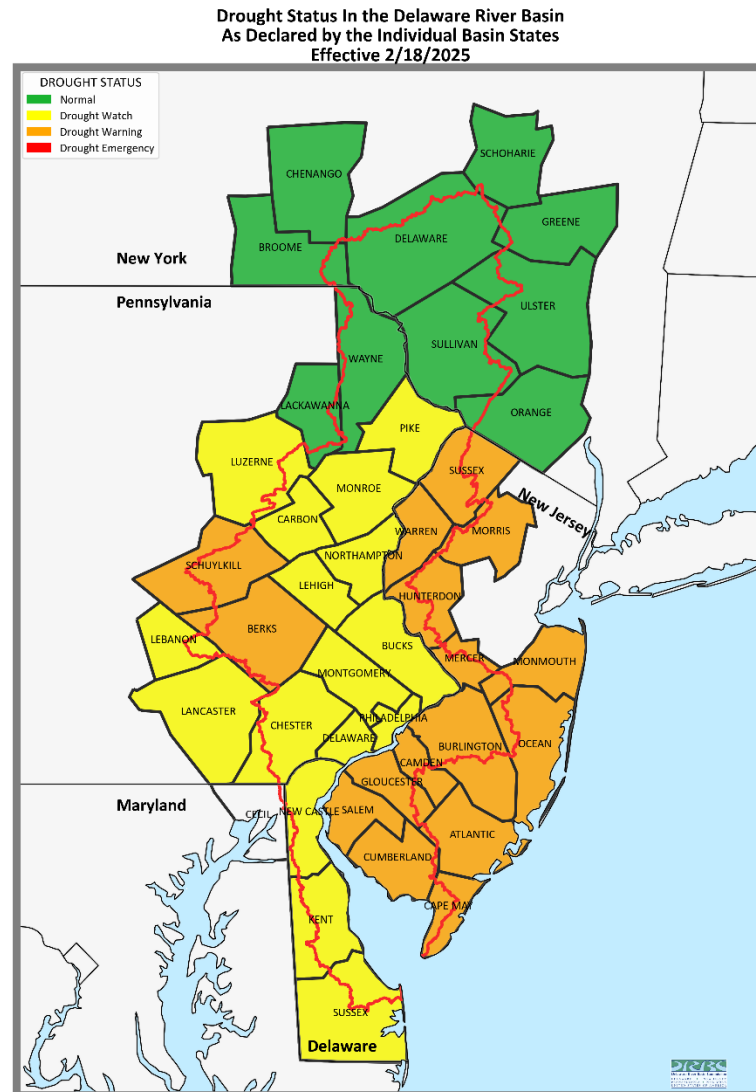


Citations: NDMC, USDA, NOAA



# Current Drought Status

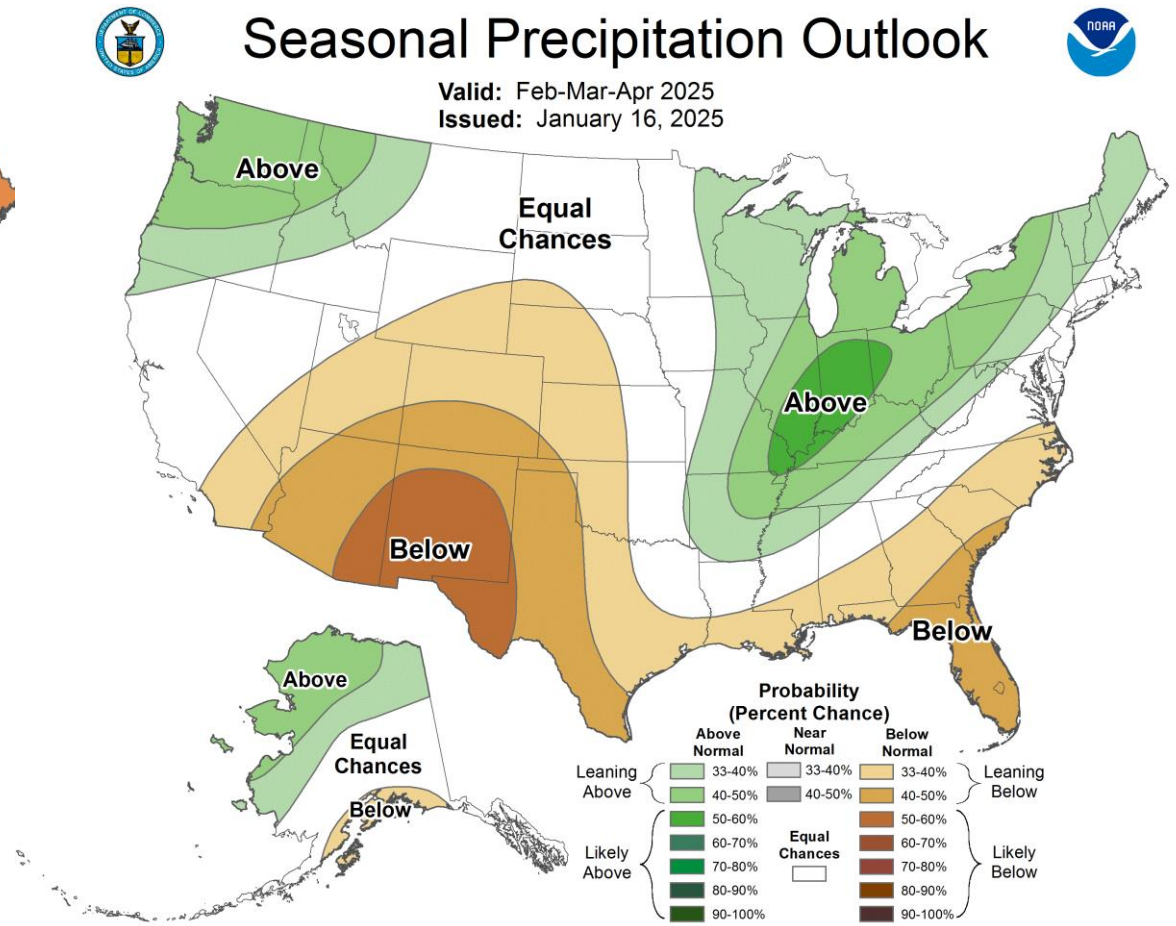
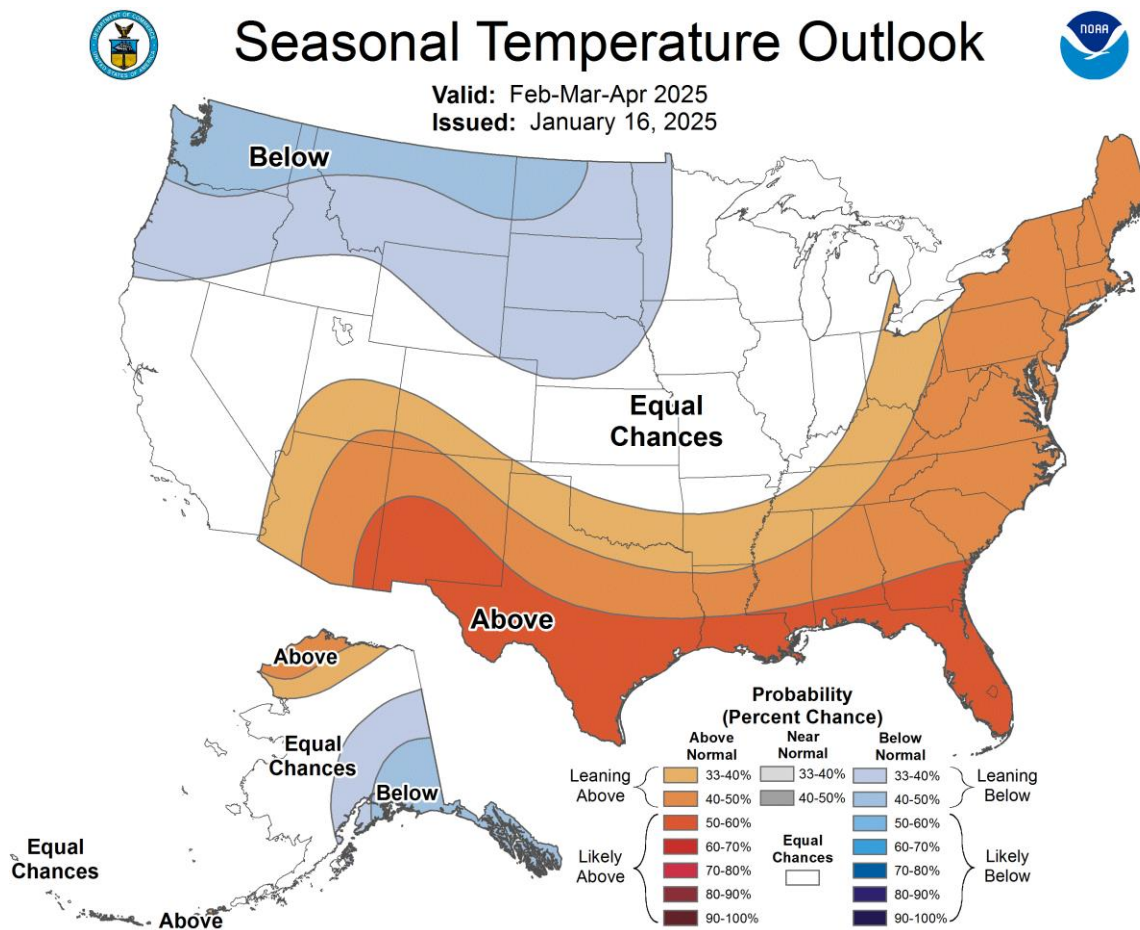
Dry conditions in the fall led to a drought watch in the Basin states.



- DRB drought status is normal
- NJ: Drought Warning
- DE: Drought Watch
- NY: Normal as of Jan 2025
- PA: Drought Watch; 2 DRB counties in Drought Warning



# NOAA Seasonal Outlook

Warm early spring with equal chances for precipitation





# Hydrologic conditions summary

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- Conditions have recovered slightly, but many parts of the Basin remain in moderate drought.
  - Three-month outlook – warmer weather to return, and precipitation is expected to be normal
  - Aqueduct shutdown was suspended due to dry conditions in November



**Enjoy the rest of your winter!**