Delaware River Basin Commission

Hydrologic **Conditions**

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Commission Business Meeting September 8, 2022



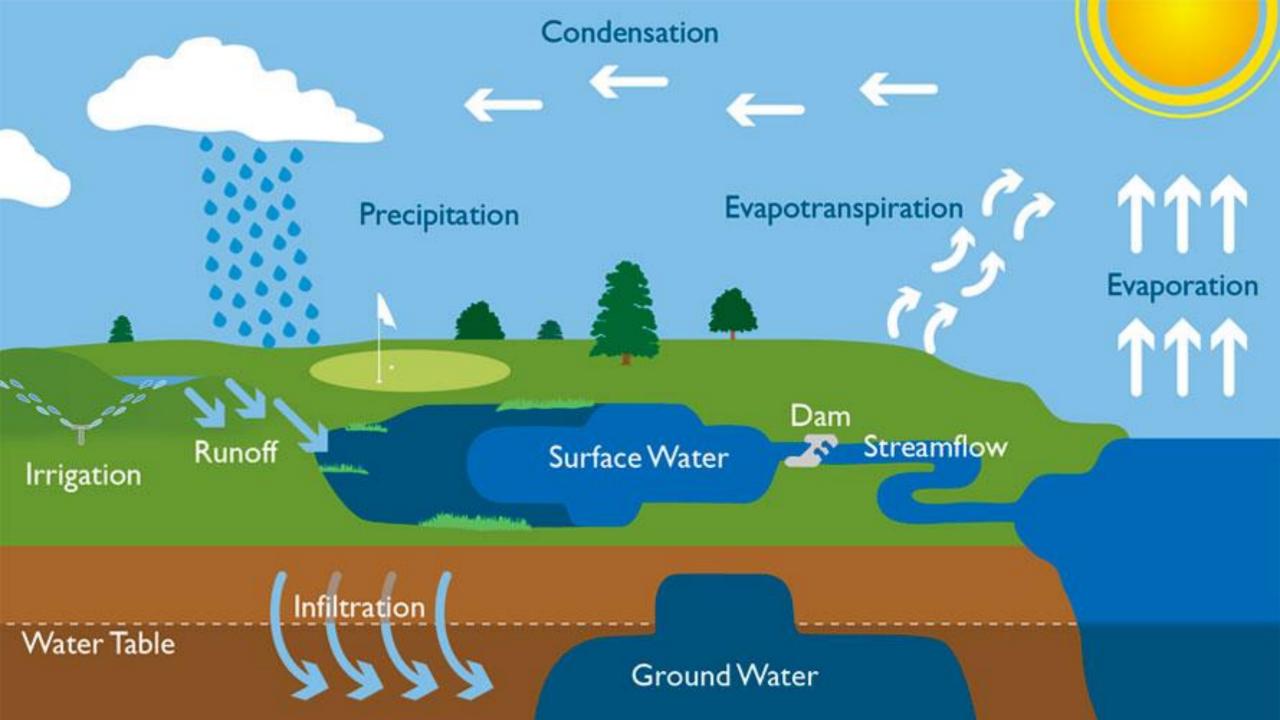




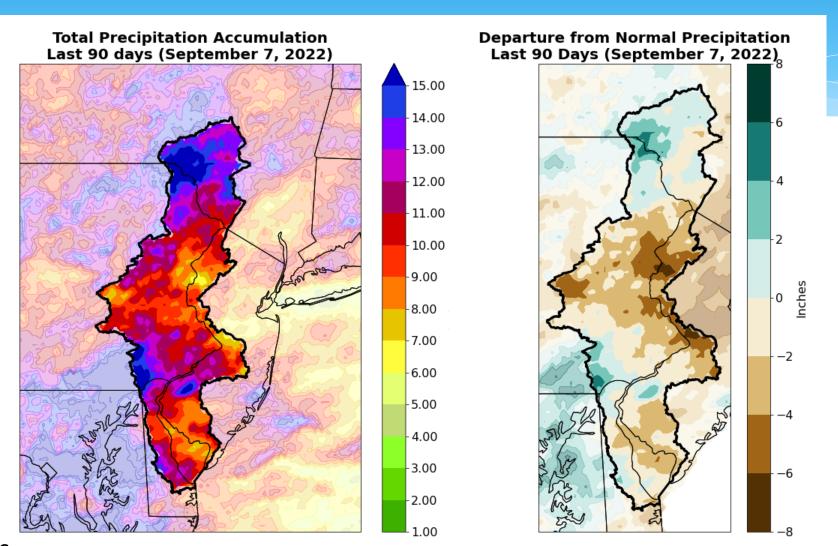








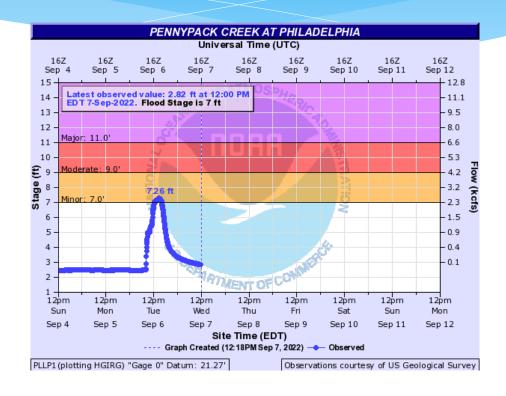
90 Day Precipitation



Data Source: AHPS

72 hr Estimated Precipitation Middle Atlantic River Forecast Center Ending on Thu Sep 08, 2022 at 04 AM EDT Inches Zero 0.01 to 0.10 0.10 to 0.25 0.25 to 0.50 0.50 to 0.75 0.75 to 1.00 1.00 to 1.25 1.25 to 1.50 1.50 to 1.75 1.75 to 2.00 2.00 to 2.50 2.50 to 3.00 3.00 to 4.00 4.00 to 5.00 5.00 to 7.00 7.00 to 10.00 Above 10

September 5-7, 2022

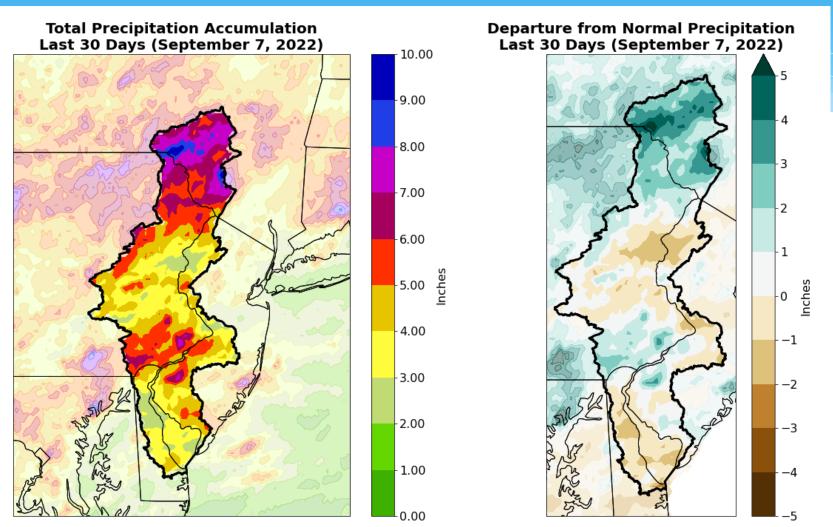


Minor Flood Stage: Pennypack Creek, Phila.

Action Stage:

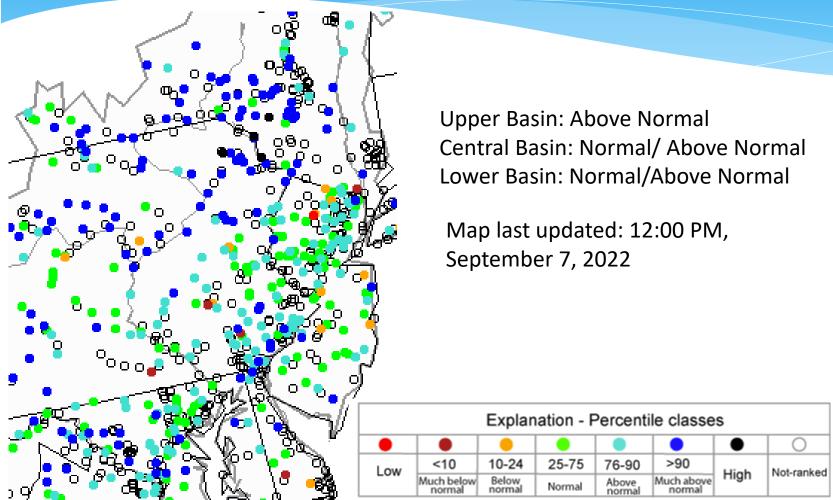
East Branch Brandywine below Downingtown
East Branch Delaware River at Harvard

30 Day Precipitation



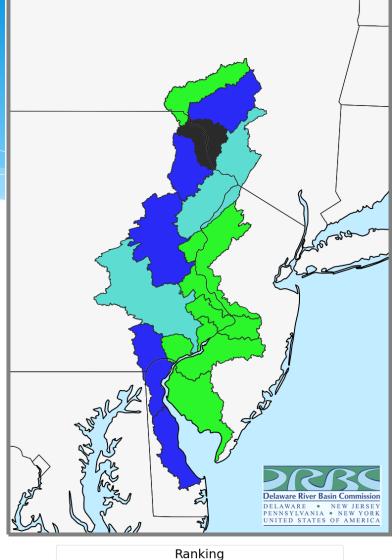
Data Source: AHPS

Streamflow



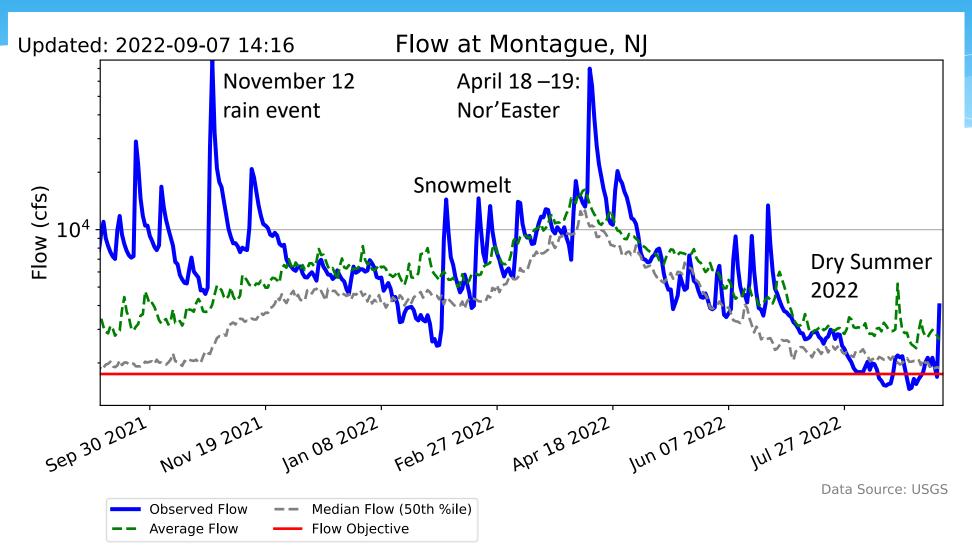
Data Source: USGS

Representative Streamflow Percentile Updated: 2022-09-07

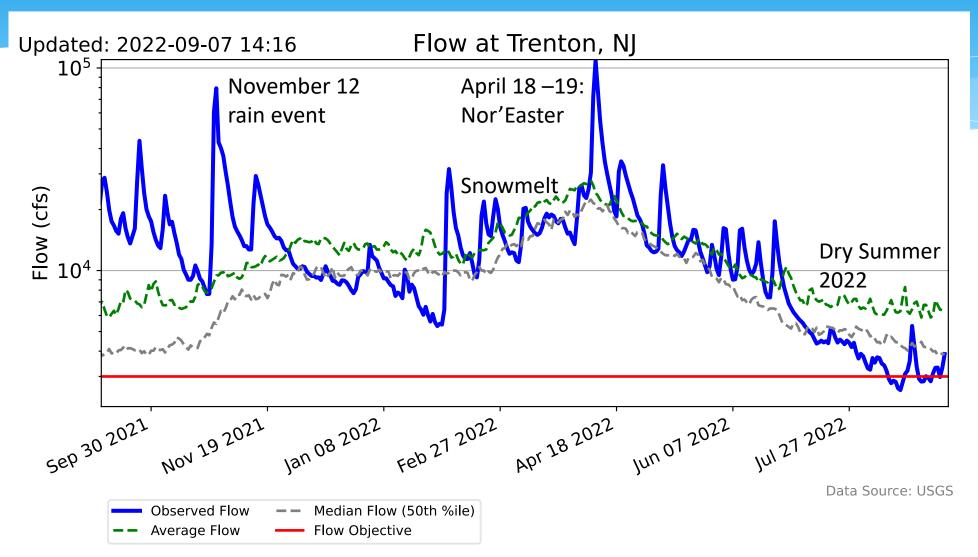




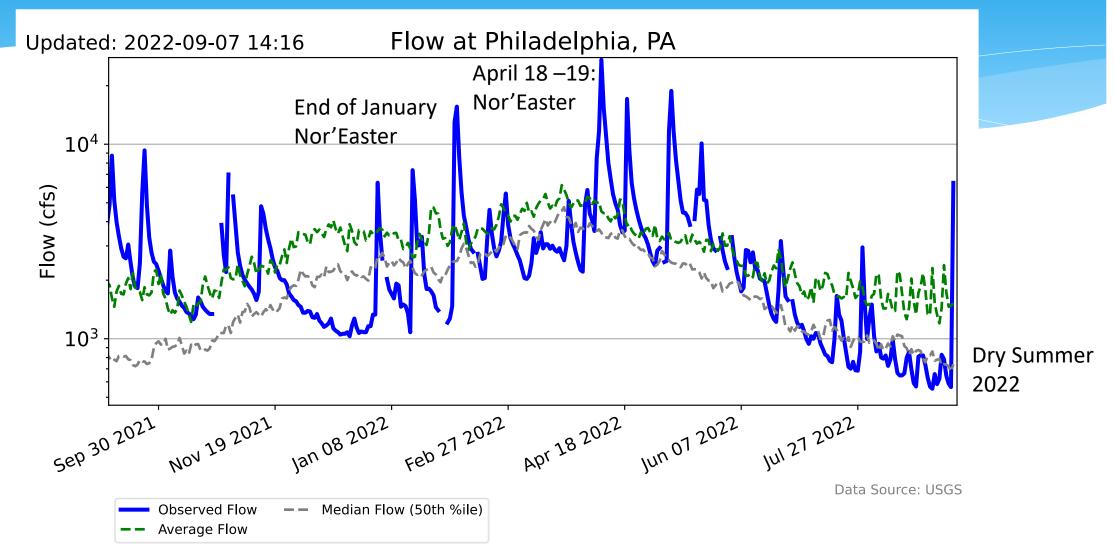
Montague, NJ

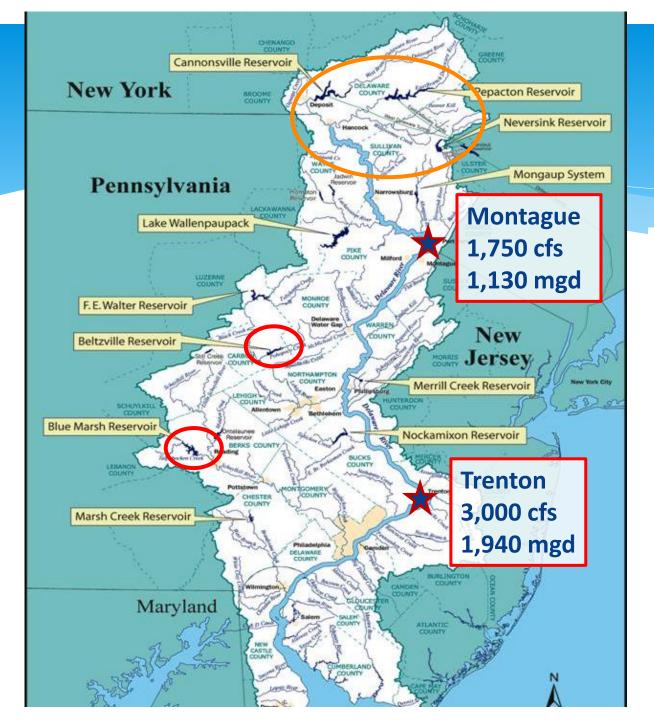


Trenton, NJ



Philadelphia, PA



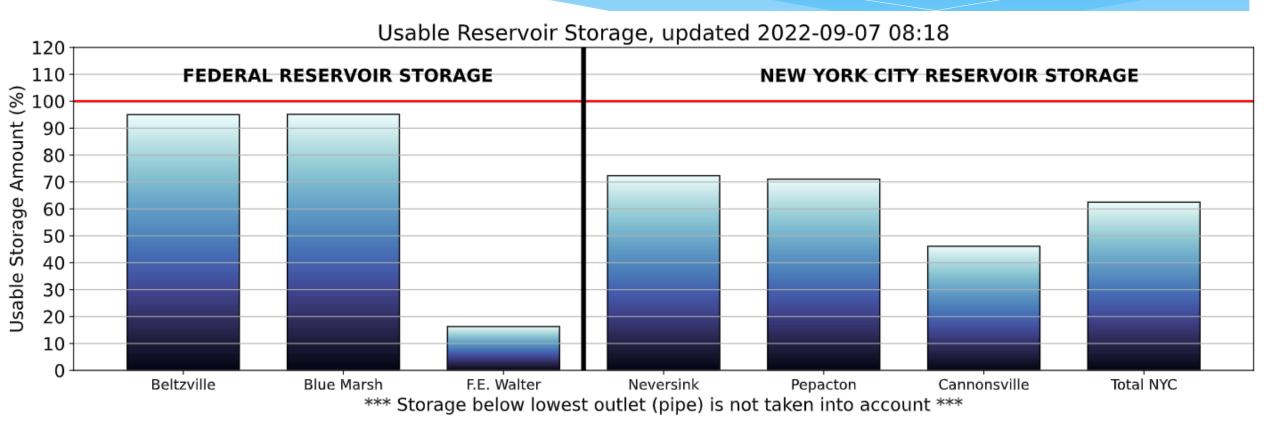


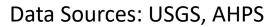
Storage and Low Flow Augmentation

- * Releases made to meet the Montague Flow Objective:
 - * Required 7/27-9/2
 - * 20.3 BG
- * Releases made to meet the Trenton Equivalent Flow Objective:
 - * Required 8/14 9/1
 - * 3.9 BG Total
 - * Includes 1.8 BG from FE Walter
 - NOT released specifically for Trenton
 - * Offsets what is needed from other sources

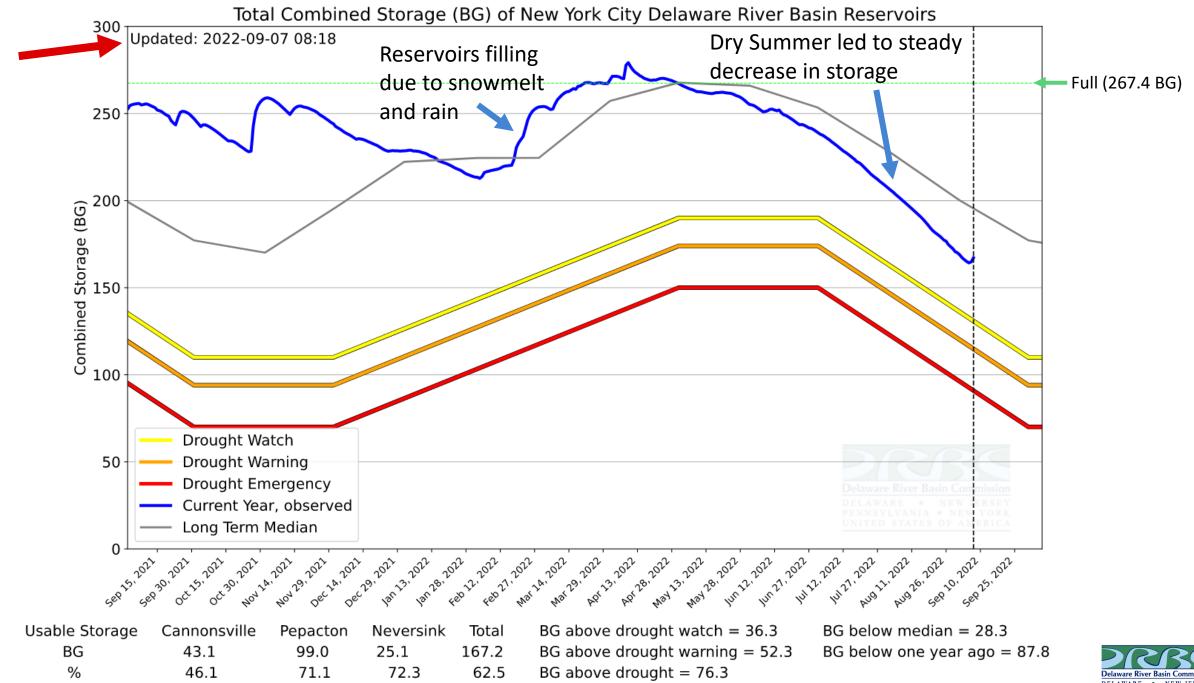
In very dry periods, flow at Trenton can be 60 percent or more from reservoir releases (all sources)

Basin Storage

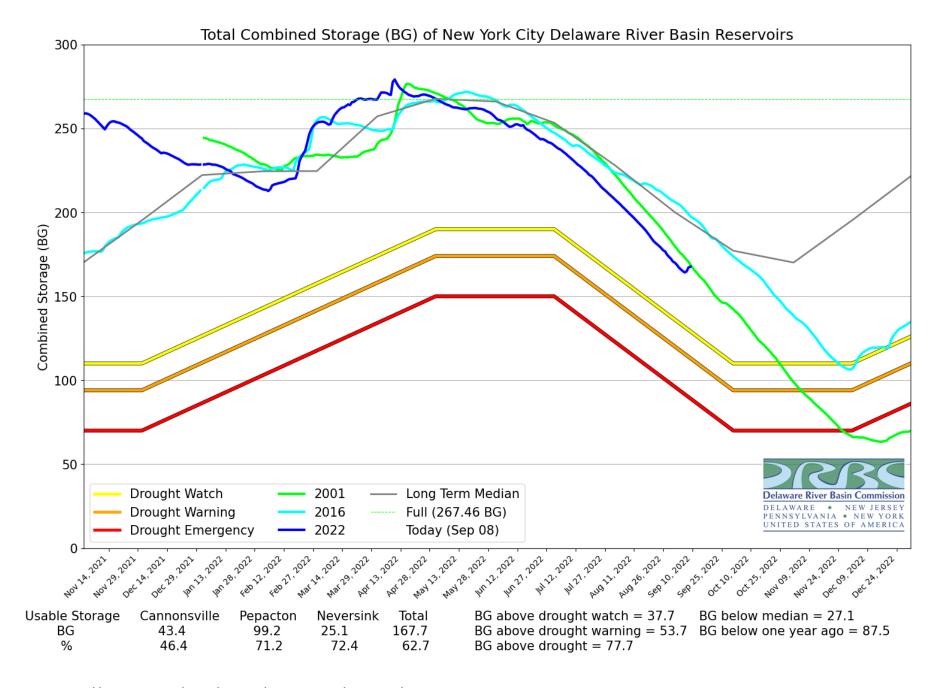






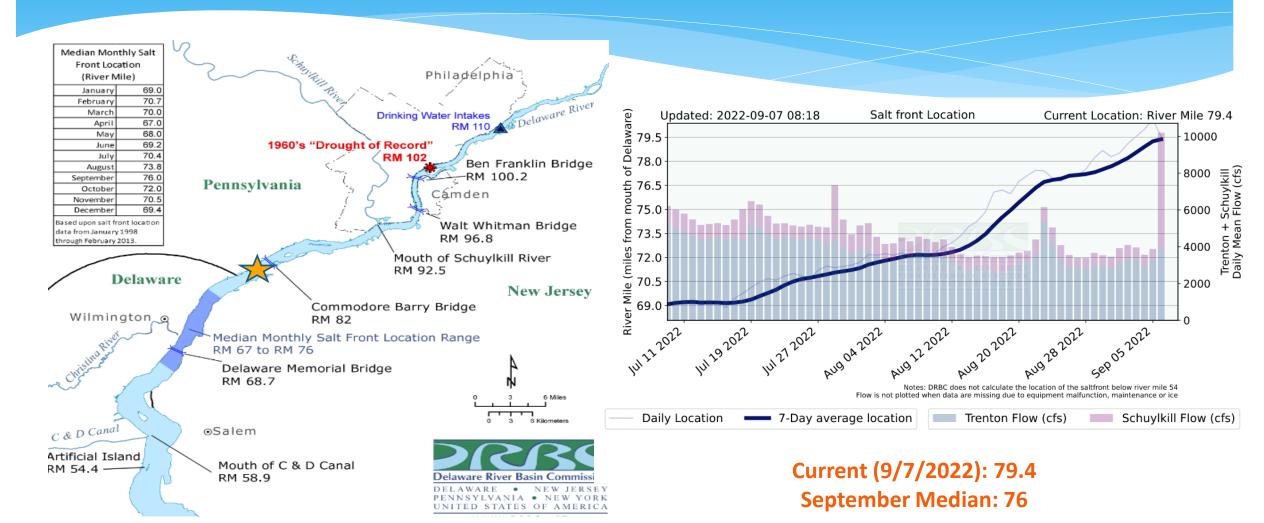


Data Source: USGS

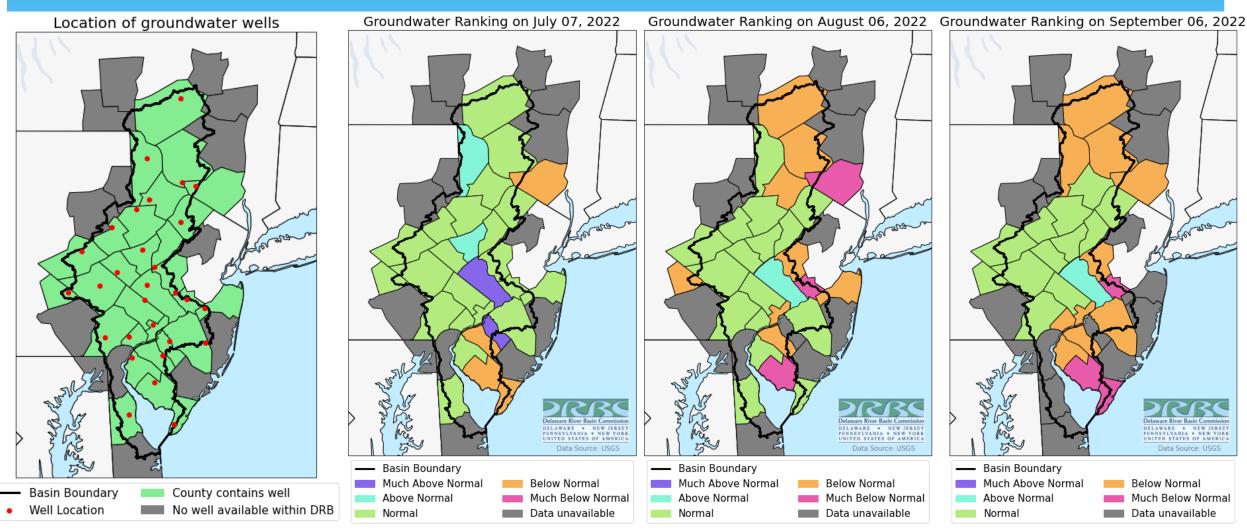


Salt Front

7-day average location of the 250 mg/l Chloride concentration



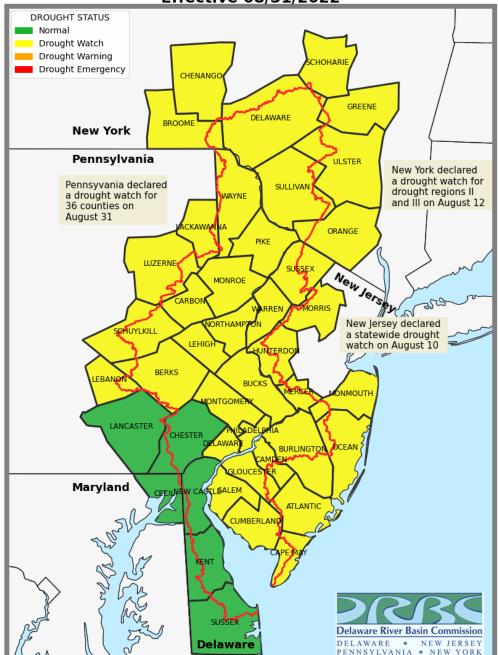
Groundwater Levels



Select Well Conditions

COUNTY	STATE	DATA SOURCE	WELL ID	INDICATOR AS OF 2022-09-07
Wayne	PA	USGS	WN 64	Drought Watch
Monroe	PA	USGS	MO 190	Normal
Carbon	PA	USGS	CB 104	Normal
Schuylkill	PA	USGS	SC 296	Normal
Lehigh	PA	USGS	LE 372	Normal
Bucks	PA	USGS	BK 1020	Normal
Chester	PA	USGS	CH 10	Normal
Delaware	PA	USGS	DE 723	Drought Watch
Lebanon	PA	USGS	LB 372	Normal
Burlington	NJ	USGS	050689	Drought Watch
Cumberland	NJ	USGS	110042	Drought Warning
New Castle	DE	USGS	db24-18	Below Normal
Woodbourne	NY	USGS	sv-535	Normal

Drought Status In the Delaware River Basin As Declared by the Individual Basin States Effective 08/31/2022

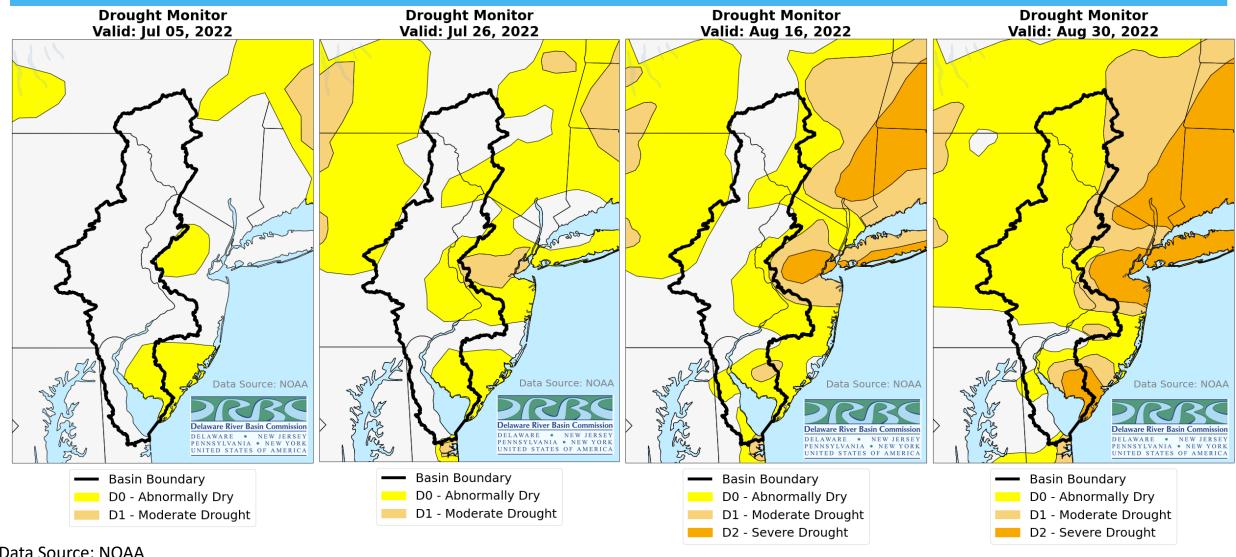


State Drought Conditions

- DRB Drought Status is still normal (based on combined NYC Storage or LB Reservoir Elevations)
- New Jersey declared a statewide drought watch on August 10
- * New York declared a drought watch for drought regions II and III on August 12
- * Pennsylvania declared a drought watch for 36 counties on August 31.

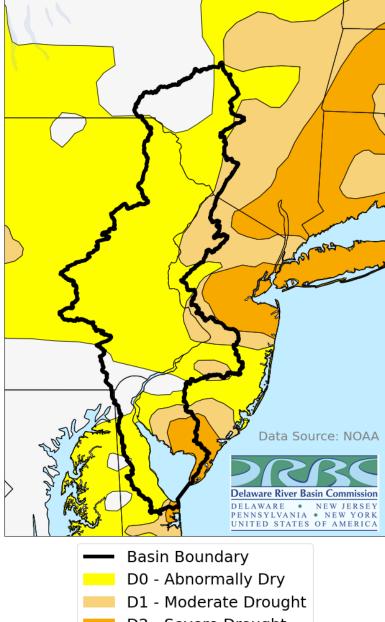
For information about drought in the DRB (including links to DRBC and basin state programs): https://www.nj.gov/drbc/programs/flow/drought-info.html

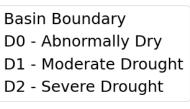
Drought Monitor Progression

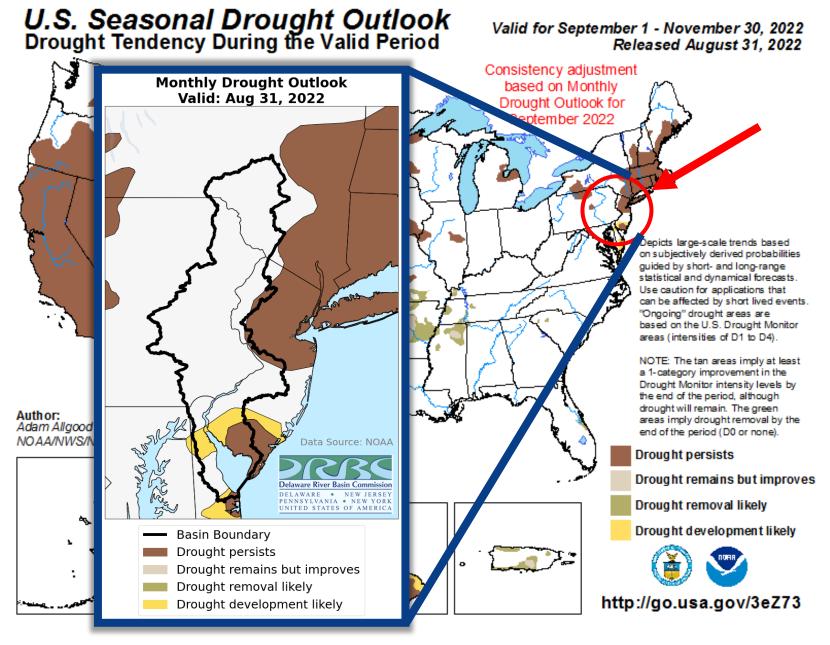


Data Source: NOAA

Drought Monitor Valid: Sep 06, 2022

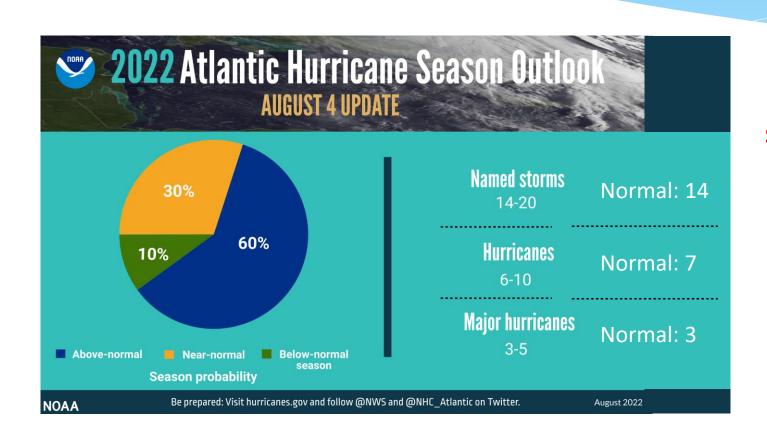






Data Source: NOAA CPC

Hurricane Season 2022



SO FAR...

5

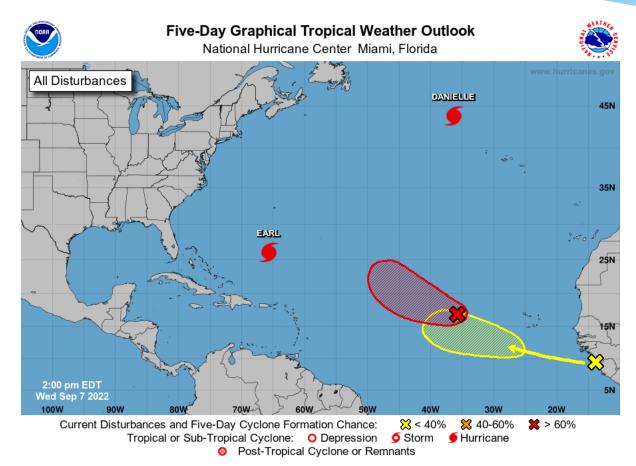
2

Hurricane season is below normal to date:

- 8 named storms typical by September 9
- 3 Hurricanes typical by September 7
- 1 Major Hurricane typical by September 1

Data Source: NOAA, NHC

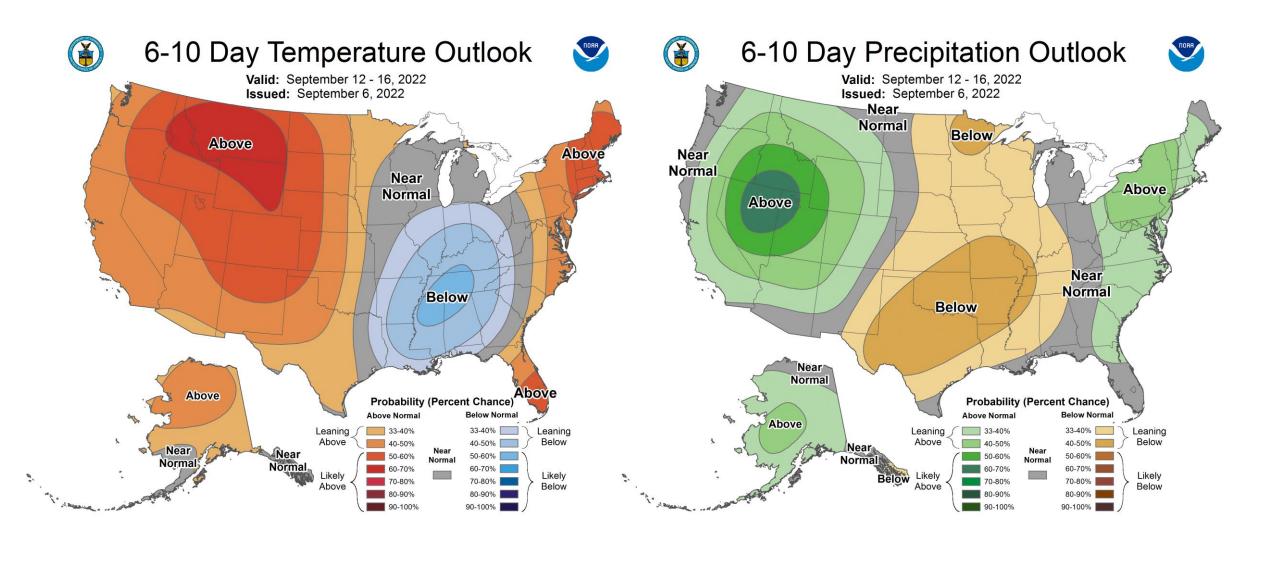
Hurricane Season 2022



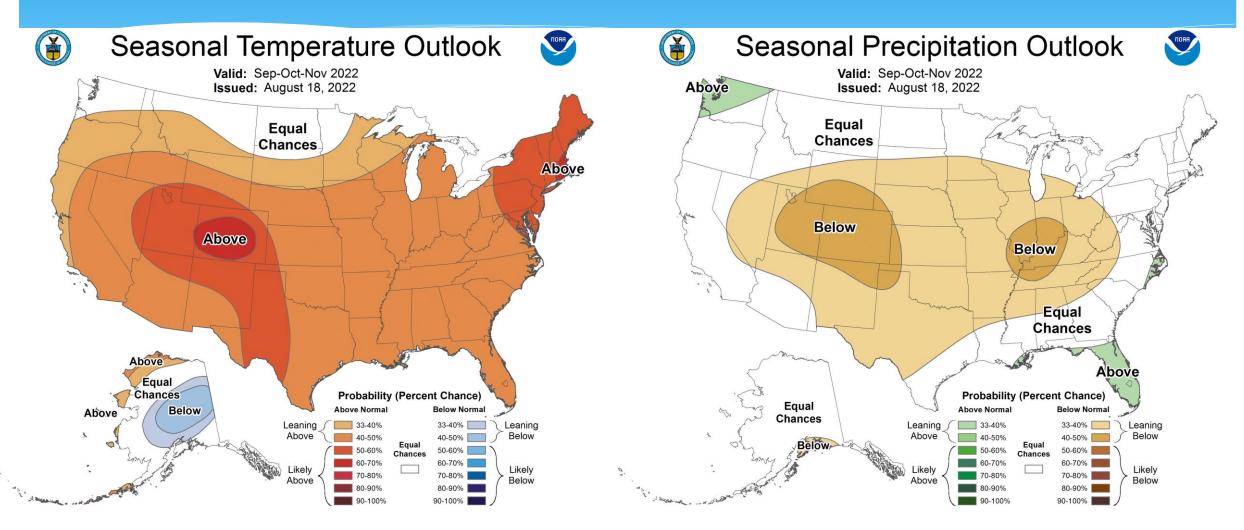
National Hurricane Center outlook, September 7, 2022.

Hurricane Earl on the morning of September 7, 2022. The storm is not forecast to make landfall.

Data Sources: NHC



Fall Outlook 2022



Data Source: NOAA, CPC

Questions?

