#### Delaware River Basin Commission

## **Hydrologic Conditions**

**Amy L. Shallcross, PE**Manager, Water Resource Operations

Commission Business Meeting December 7, 2022



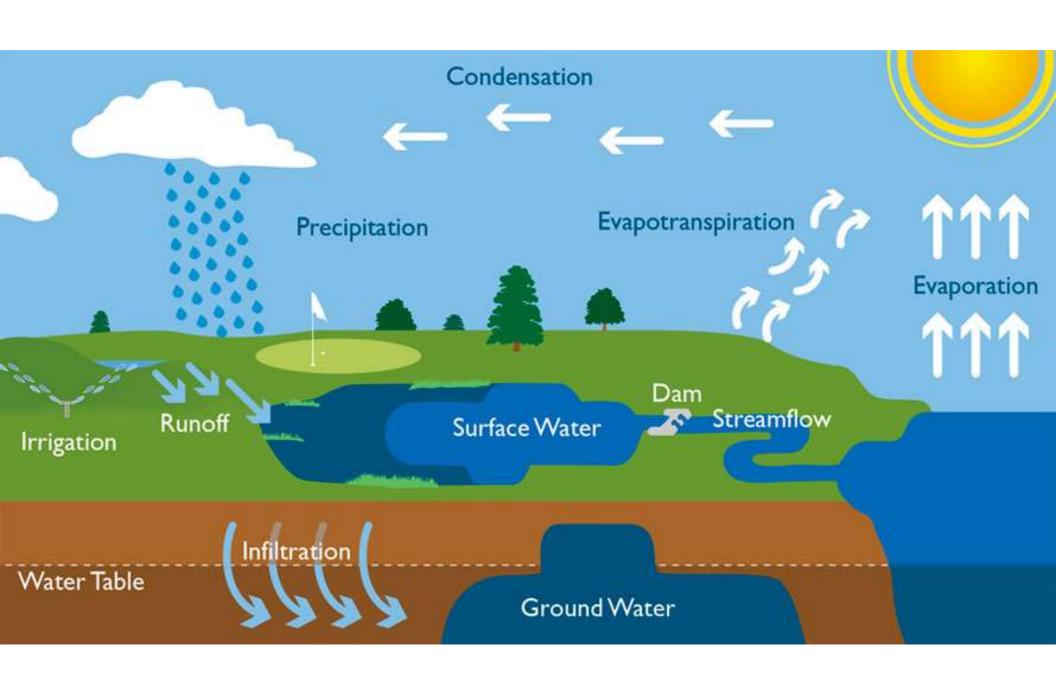




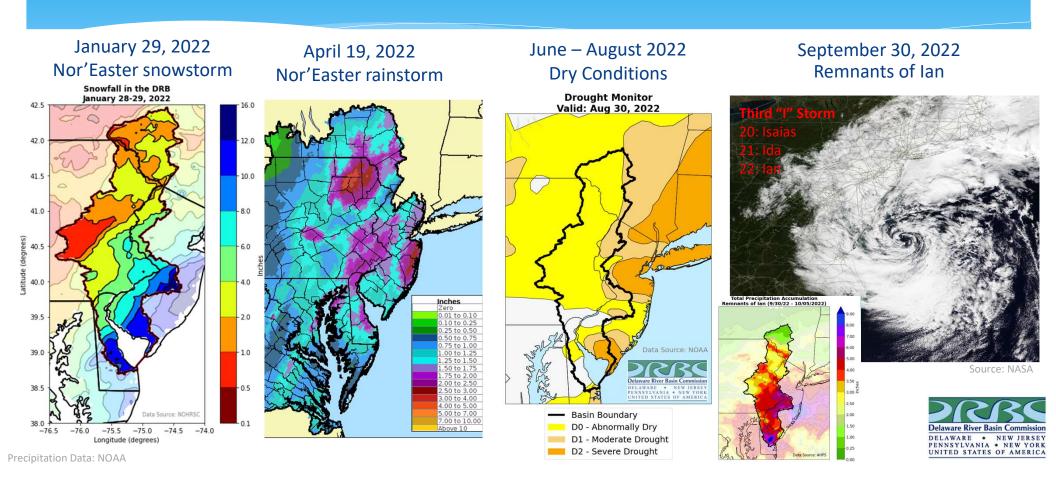




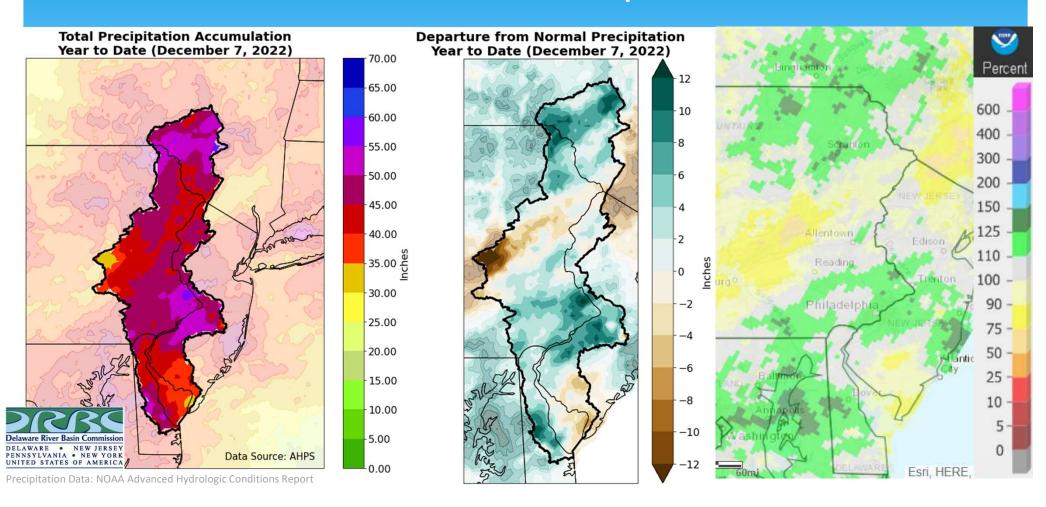




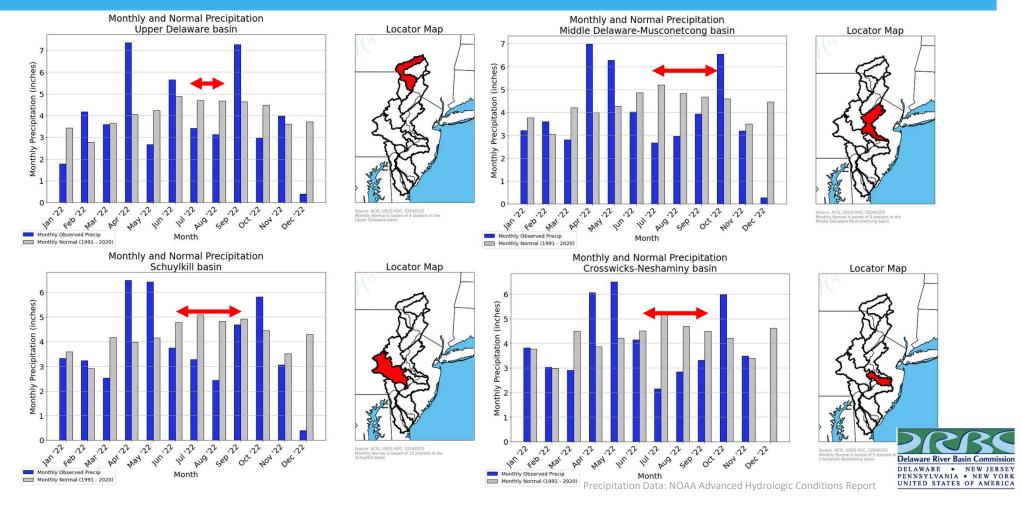
### 2022 Hydrologic Highlights



#### Year to Date Precipitation



#### Precipitation By HUCs (year-to-date)

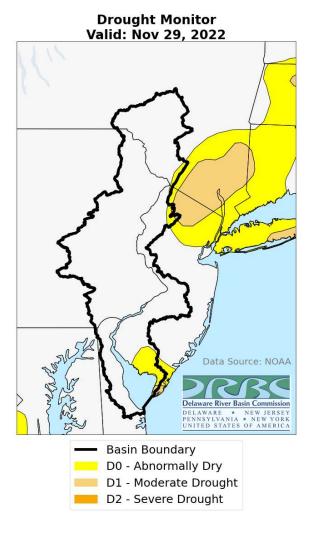


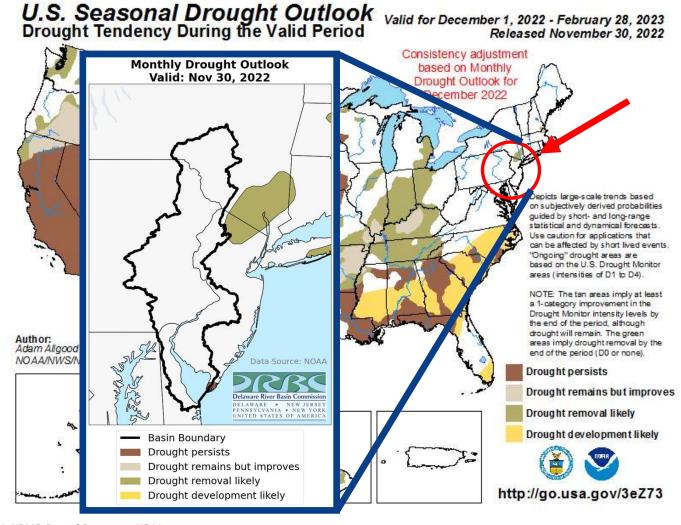
#### Cannonsville Reservoir

July 12, 2022

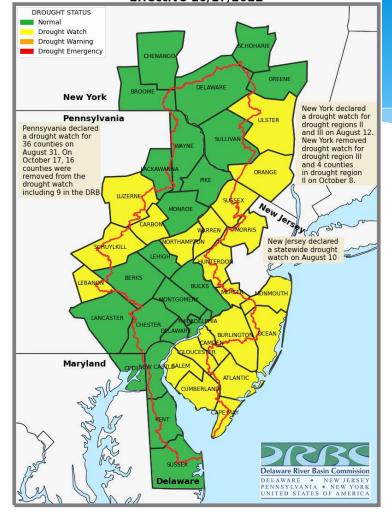








Drought Status In the Delaware River Basin As Declared by the Individual Basin States Effective 10/17/2022



#### **Current Drought Status**

- DRB Drought Status is normal
- DRB States have declared droughts for several counties.
- 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. The drought watch was lifted on October 8.
- Pennsylvania declared a drought watch for 36 counties on August 31. The drought watch was lifted for all DRB counties except for 5.

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Data Source: USGS

Upper Basin: Above Normal - High

Central Basin: Normal - High

Lower Basin: Above Normal - Much Above

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

Map last updated: 6:30 am

December 7, 2022

#### **Locations with Minimum Flow Objectives**

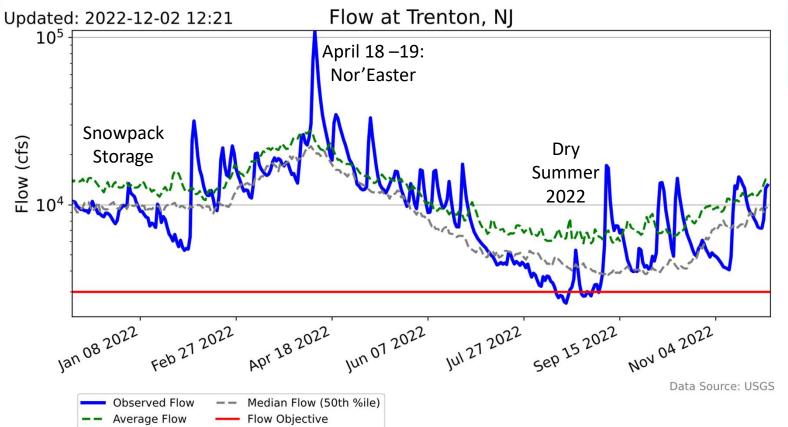
♦ Montague, NJ - Established by 1954 Decree

◆ Trenton, NJ – Established by Water Code

Delaware River Basin Commission
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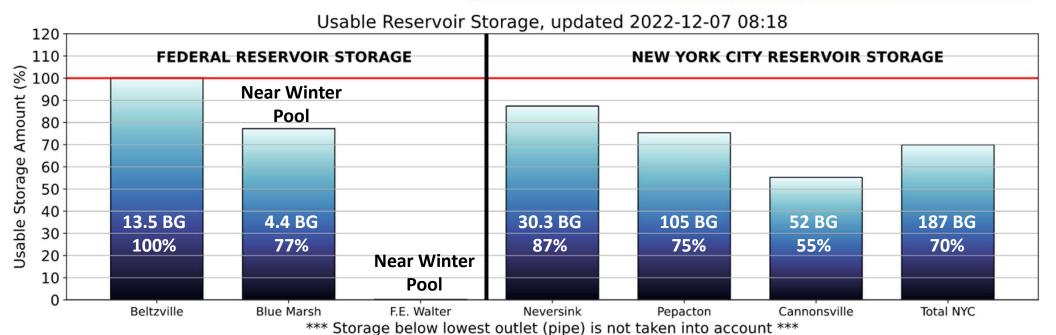
Past 48 hrs: 0.75 – 1.5"

#### Delaware River Flow at Trenton, NJ

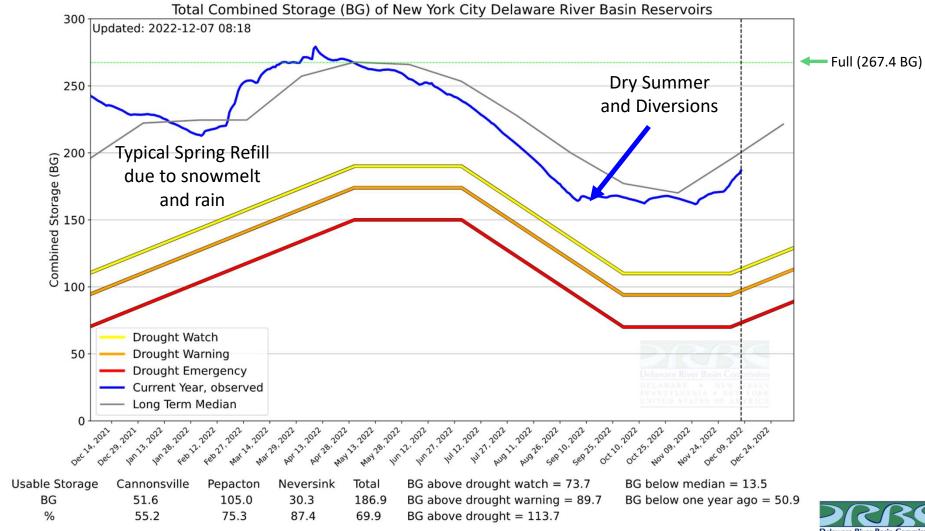




#### Basin Storage





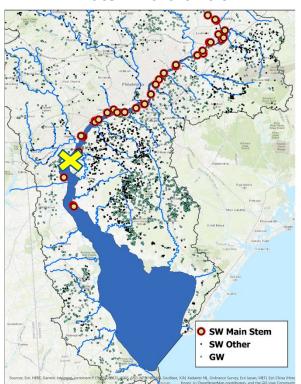




#### Salt Front

7-day average location of the 250 mg/l isochlor (chloride concentration)

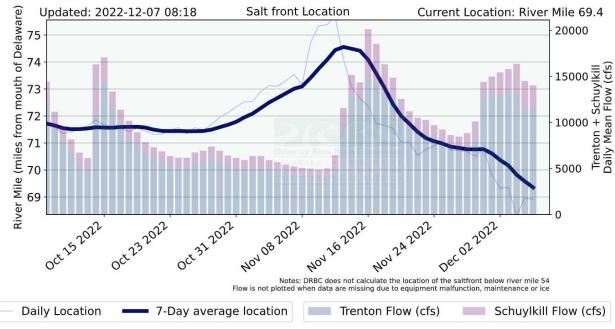
#### Water Withdrawals



Current (12/6/2022): RM 69.4

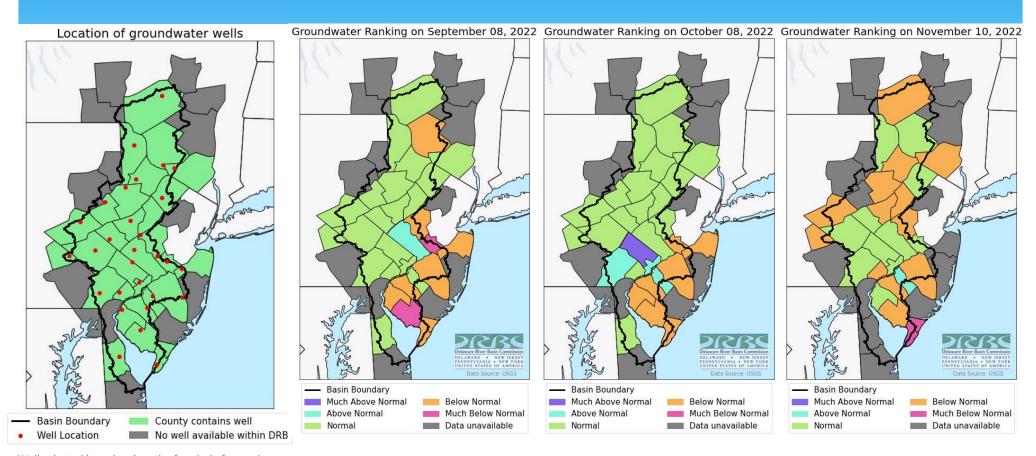
**December Median: RM 69** 





 $\label{thm:conductance} \mbox{Derived using specific conductance data from USGS monitoring locations in the Delaware Estuary}$ 

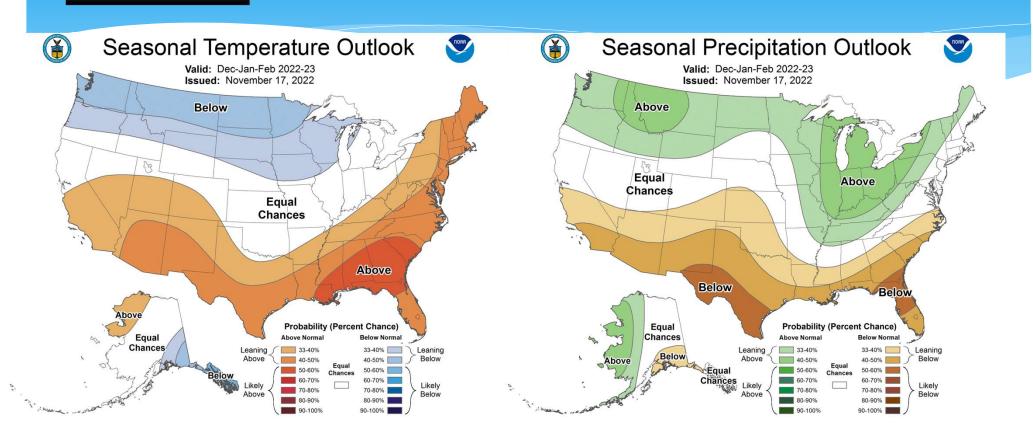
#### **Groundwater Levels**



Well selected based on length of period of record

## Typical La Nina forecast!

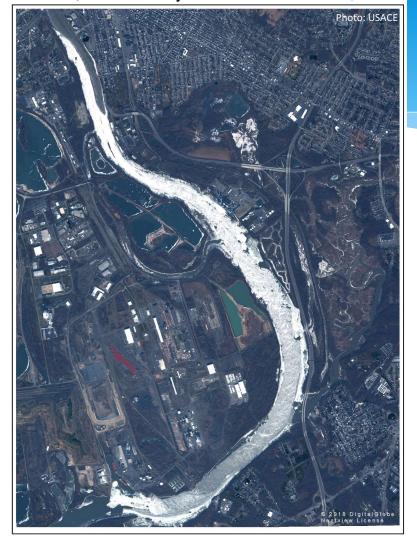
#### Winter Outlook 2022



Source: NOAA, Climate Prediction Center

Trenton, New Jersey

January 14, 2018



# Ice accumulates in the river during cold spells



