Delaware River Basin Commission

Water and Energy in the Delaware River Basin

Steve Tambini Executive Director

December 9, 2022

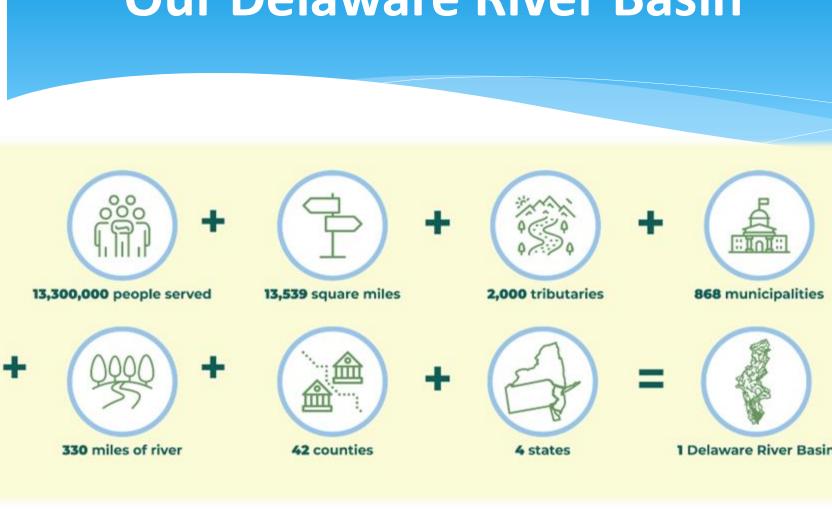


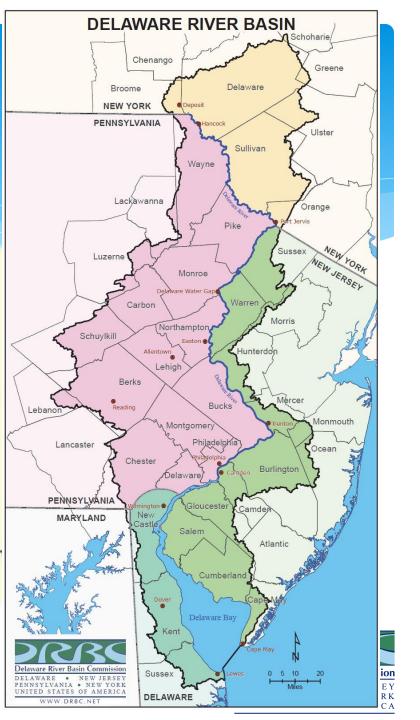


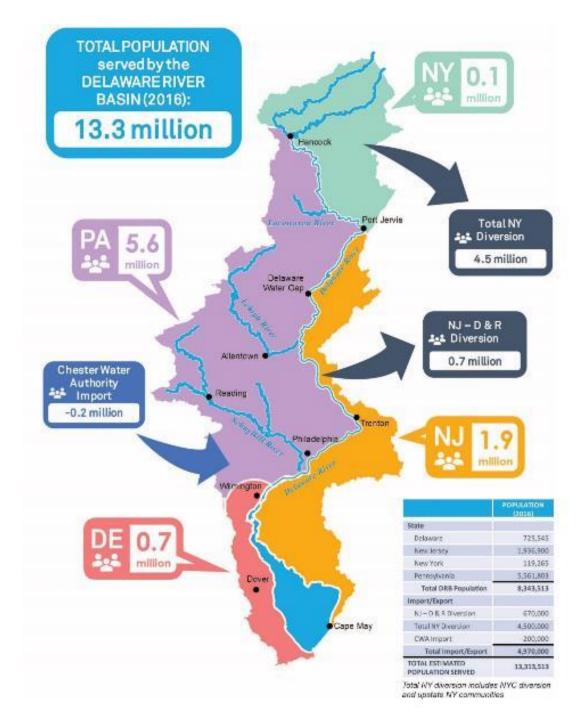




Our Delaware River Basin







The Delaware River Basin

- ~13 million people (about 4% of the U.S. population) rely on its waters
- Provides half the drinking water to NYC
- Drains 13,539 square miles of watershed in 4 states.
- 6.4 billion gallons are withdrawn every day
- Contributes over \$21B in economic value

The Delaware River Basin "Today"





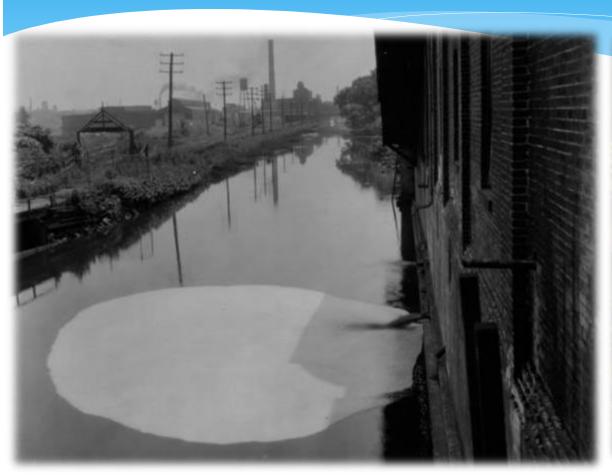








It Used to Look Like...





Slaughterhouses discharging in 1928 (PWD Historic Collection)

Bridgeport Canal up from Schuylkill River in 1928 (PWD Historic Collection)



And Sometimes It Looked Like...



Easton-Phillipsburg free bridge in 1955 (lehighvalleylive.com file photo)



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Delaware River at Trenton in 1965 (DRBC photo)

Why a Delaware River Basin Commission?



Before DRBC:

- Water supply shortages and disputes
- Severe pollution
- Devastating floods and droughts
- Disjointed planning and management
- Recognition of joint responsibility for national treasure



Delaware River Basin Commission Structure and Mission

Five Equal Members:

- Delaware
- New Jersey
- Pennsylvania
- New York
- Federal Gov.



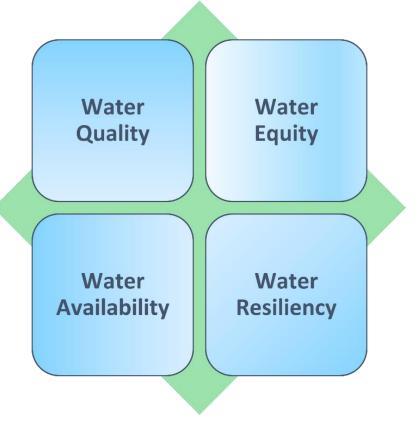








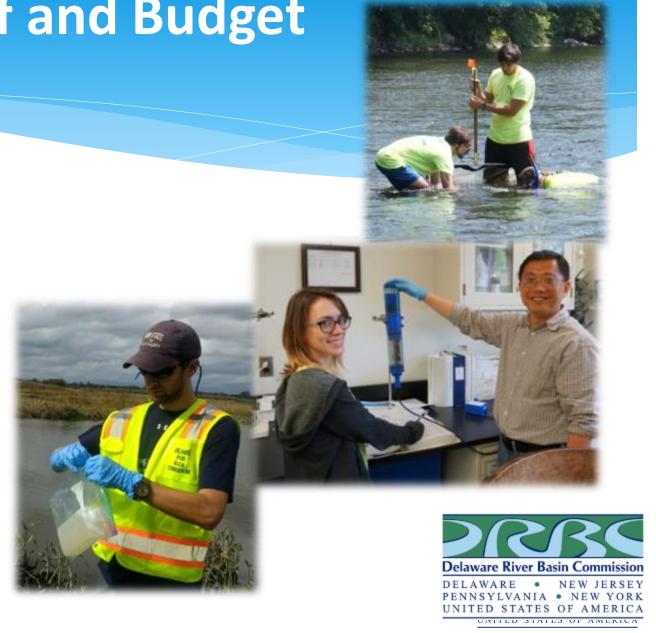
Manage, Protect, and Improve the Basin's Water Resources





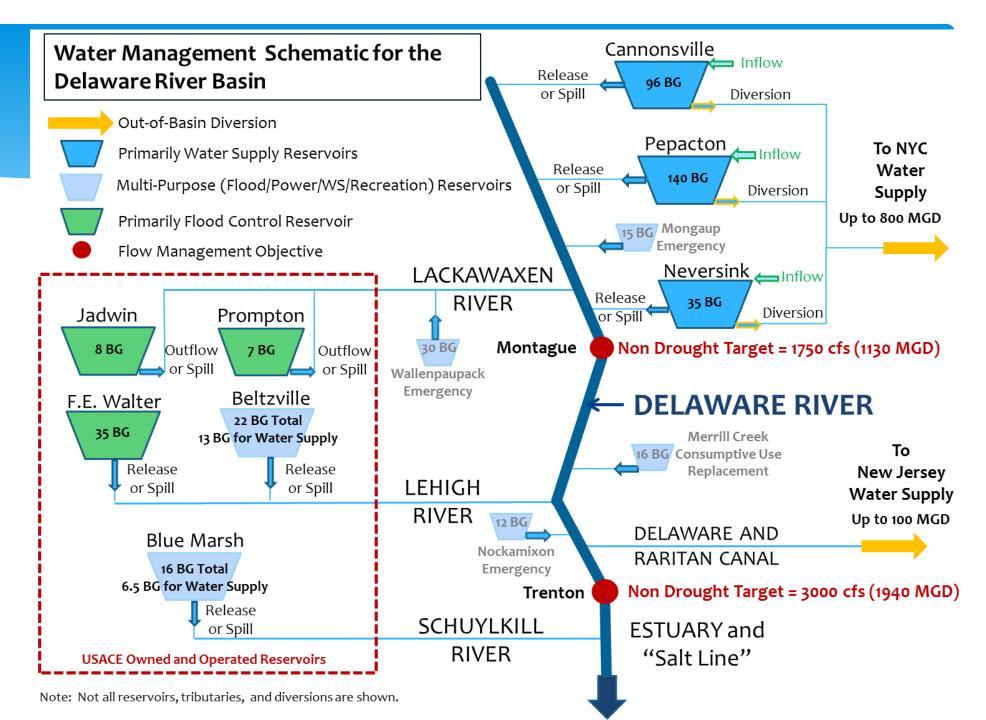
DRBC Staff and Budget

- Professional Planners, Engineers and Scientists
- 39 Budgeted Staff (12% Vacancy Rate)
- FY2023 Budget = \$7 million
- Located in West Trenton, NJ since 1974



Flow

- What we manage and why
- Will there be enough
 - Climate Change
 - Salinity
 - Drought
 - User demand



PENNSYLVANIA YORK NEW JERSEY Schuylkill River County Boundary

Schuylkill River Watershed

- Largest tributary (HUC8) watershed in the Delaware River Basin.
- Drains 1,911 square miles (all in Pennsylvania)
- Drains ~14% of the Delaware River Watershed.
- Average annual water withdrawals = 403 MGD
- DRBC manages ~500 water withdrawal and wastewater discharge dockets in the watershed (26% of all DRBC dockets)

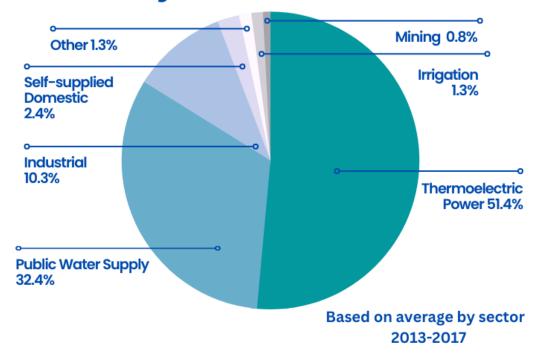
The DRBC and the Schuylkill

- DRBC has the authority to allocate all water withdrawals above 100,000 gpd
 - PADEP only reviews Public Water Suppliers
- DRBC manages consumptive use "make up" water for power producers
- DRBC operates SE Ground Water Protected Area on behalf of PA
 - Withdrawals >10,000 gpd
 - Potentially stressed areas, stressed areas; limits on withdrawals
- DRBC "owns" volume in Blue Marsh Reservoir
- DRBC has basin wide WQ standards.





Consumptive Withdrawals by Sector Schuylkill River Watershed





- Limerick Generating Station
- DRBC Docket Water withdrawals
 - Schuylkill River up to 58.2 MGD
 - 44.0 MGD consumptive
 - 14.2 MGD non-consumptive
 - Perkiomen Creek via Delaware River
 Diversion up to 42 MGD
 - Consumptive Use Replacement Requirement
 - Flow target at Pottstown < 560 cfs</p>
 - 1:1 gallon replacement





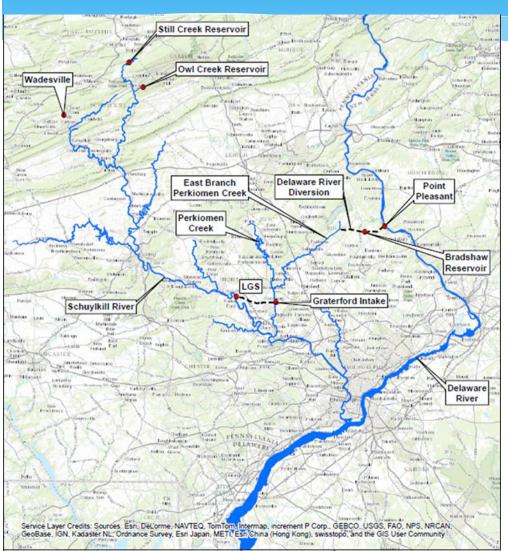
Definitions

Withdrawals = All

Consumptive Use = the water ... lost to the atmosphere from cooling devices, evaporated from water surfaces, exported from the Delaware River Basin, or any other water use for which the water withdrawn is not returned to the surface waters of the basin undiminished in quantity.

1 million gallons per day (MGD) = 1.55 cubic feet per second (cfs)





- DRBC Limerick Water Augmentation
 Sources
 - Wadesville Mine Pool (up to 14.4 MGD)
 - Still Creek Reservoir (up to 36 MGD)
 - Owl Creek Reservoir (up to 8 MGD)
 - Perkiomen Creek
 - Delaware River via Diversion



- Schuylkill RiverRestoration Fund
 - Grew out of docket condition, 2006 start
 - Ecological restoration fund seeded
 - Partnership is key: SRG,
 NGOs, water utilities,
 DRBC, other
 government agencies



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Stay in Touch!

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- DRBC Interest Form
 https://www.state.nj.us/drbc/contact/interest/

