Delaware River Basin Commission

Background and Mission of WMAC

WMAC Meeting

June 16, 2015





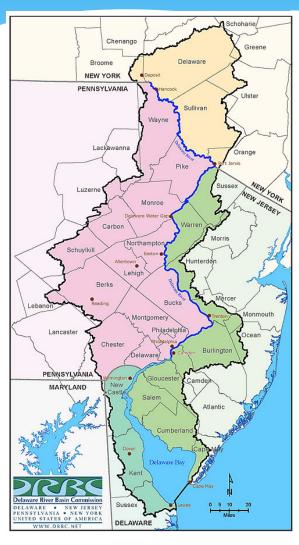






"A river is more than an amenity, it is a treasure"

-US Supreme Court Justice Oliver Wendell Holmes



Fast Facts:

- Delaware River Main stem river is 330 miles long
- Delaware River forms an interstate boundary over its entire length
- □ **15+ million people** (about 5% of the U.S. population) rely on the waters of the Delaware River Basin
- □ Drains 13,539 square miles in 4 states.
- Water withdrawal in the Basin = 8.7 billion gallons/day
- Significant Exports: NYC (up to 800 MGD) and NJ (up to 100 MGD)
- Longest, un-dammed U.S. river east of the Mississippi (dams are located on tributaries, not the main stem Delaware)
- □ Contributes over \$21B in economic value to the region.

Delaware River Basin Commission Founded by Compact in 1961

Five Equal Members:

Delaware



New Jersey



Pennsylvania



New York



Federal Government







Note: New York City and Philadelphia are "advisors" and not members

Why was the DRBC created?

- Water supply shortages and disputes over the apportionment of the basin's waters;
- Severe pollution in the Delaware River and its major tributaries;
- Serious flooding

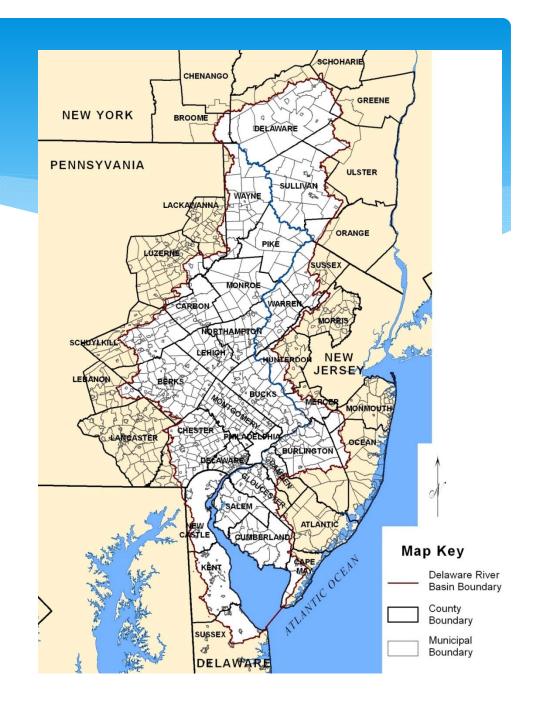




The Need for Basin-Scale Planning and Management

- 4 States
- 42 Counties
- 838 Municipalities
- Exports to NY City & NJ



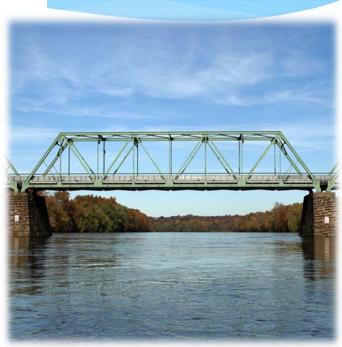


Delaware River Basin Commission

Managing our shared Basin water resources.

Built on a shared and foundational commitment in the **Delaware River Basin Compact** to:

- Manage complex <u>interstate</u> water resource systems and needs.
- Collaborate with members on shared waters management issues – from headwaters to the Ocean.
- Adapt to achieve mission results.
- Balance progress and protection.
- Partner to achieve for the Basin, what individual members cannot achieve alone.





DRBC Advisory Committees

- Flood
- Regulated Flow
- Water Management
- Toxics
- Water Quality
- Monitoring Advisory & Coordination



DRBC Primary Functional Responsibilities

- Water Supply
- Drought Management
- Flood Loss Reduction
- Water Quality
- Watershed Planning
- Regulatory Review (Permitting)
- Outreach/Education
- Recreation

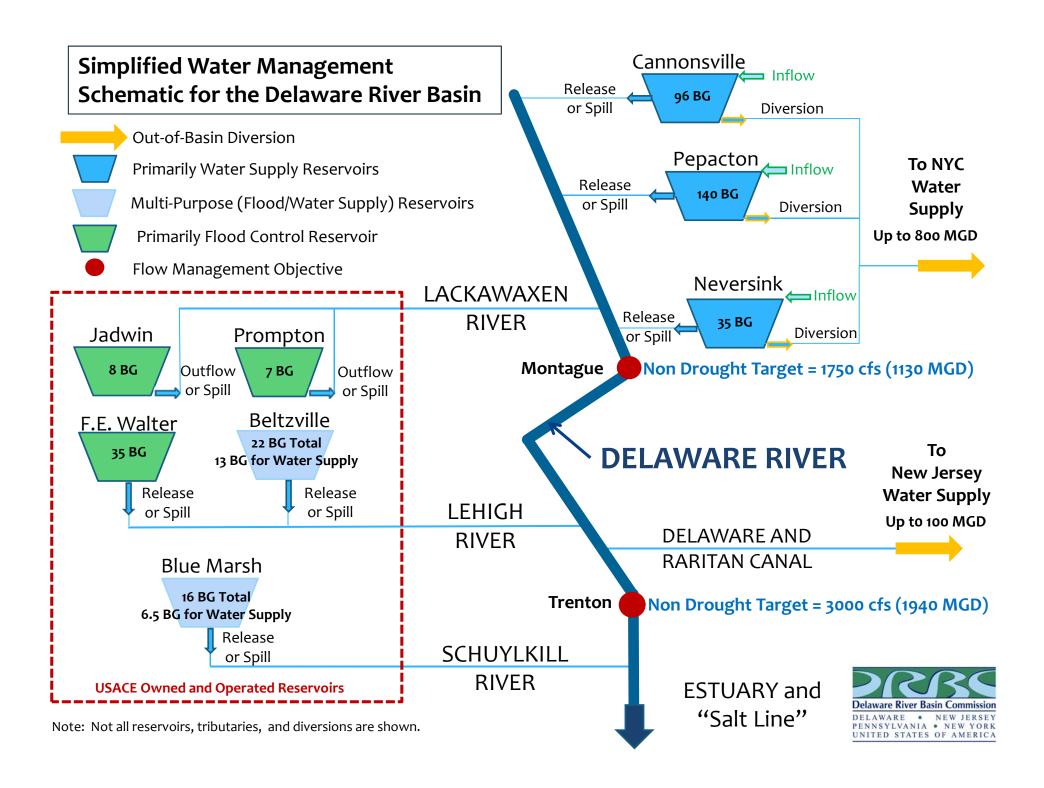


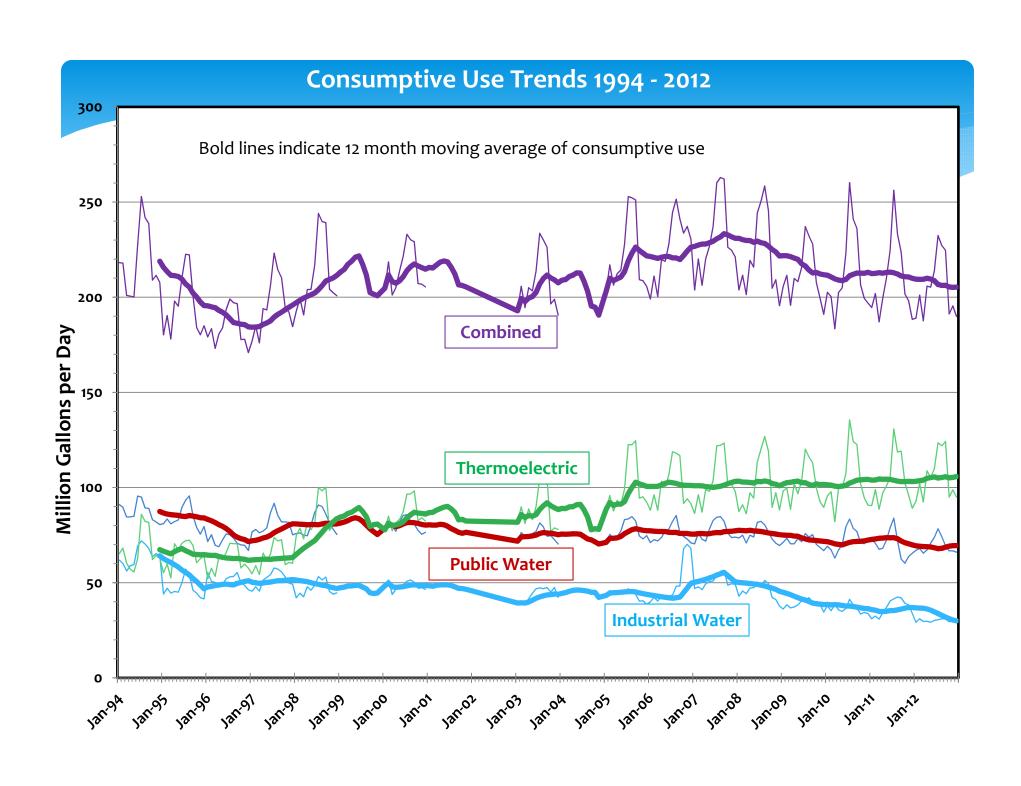
Core Water Supply Planning Question

Can the Delaware River Basin support the following objectives during a repeat of the drought of record (or greater)::

- Meet flow management targets at Montague NJ and Trenton, NJ
- Keep the salt line at targeted river miles so as to not impact drinking water supplies, aquifers, and industrial uses.
- ➤ Support overall basin demands with required levels of drought related demand management.



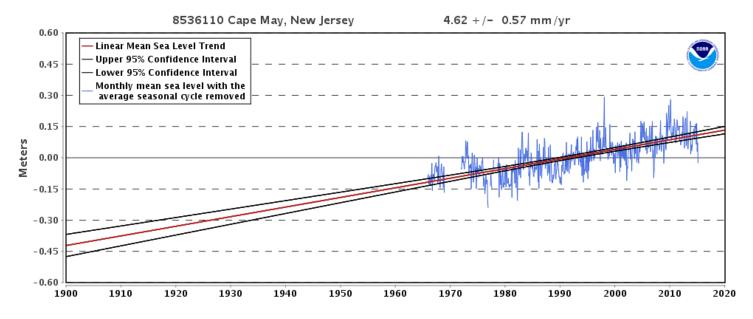




Mega Trends and Other Emerging Planning Issues

- Demographics: Changes and Shifts
- Climate Change: Sea level rise, frequency and intensity of storms and droughts

- Energy Water Nexus
- Possible Shale Gas
 Development
- Energy and Water Efficiency



Note: 4.62 mm/yr = 1.5 ft/100 years



WMAC Created: Resolution 98-21

Ground Water Advisory Committee (1982) Water
Conservation
Advisory
Committee
(1983)

Water Management Advisory Committee (1998)



Purpose of WMAC

- Water demand and consumptive use forecasting
- Implementation of <u>water conservation</u> regulations
- Models and methods for characterizing groundwater flow and instream flow needs
- Protocol for review of <u>integrated resource plans</u>
- Recommendations for the conduct of <u>watershed-based</u> plans



20 WMAC Representatives:

- a) State of Delaware
- b) State of New Jersey
- c) State of New York
- d) Commonwealth of Pennsylvania
- e) U.S. Army Corps of Engineers
- f) U.S. EPA
- g) U.S. Geological Survey
- h) City of New York
- i) City of Philadelphia
- j) County Water Agency

- k) Water Resources Association
- 1) Industry
- m) Water Utility
- n) Agriculture
- League of Women Voters or other Civic Organization
- p) Environmental Organization
- q) Watershed Organization
- r) Academia
- s) Recreation
- t) Fisheries



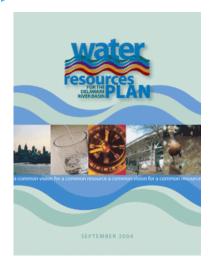
WMAC Focal Areas & Accomplishments

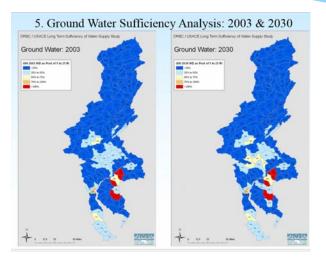
- Data Capture / Needs
- GWPA / IRP Guidance
- Basin Plan
- Water Audit / Conservation
- Reclaimed Water Use
- Instream Flows
- Review State AAs

- Inter/Intra basin transfers
- Groundwater availability/ Water Budgets
- Water Use Trends
- Water Demand Forecasting
- Water Supply Planning

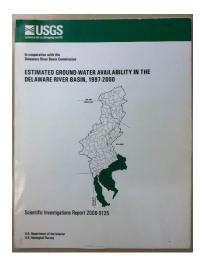


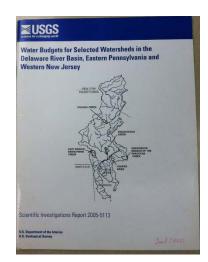
Examples

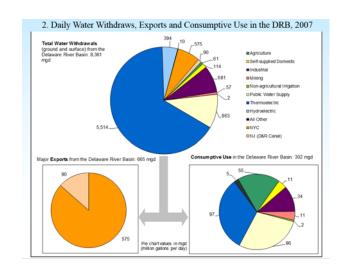












WMAC Future Engagements

- Groundwater Management in the DRB (Oct. mtg)
- Water Efficiency
- Water Supply 2060
- Your suggestions...

