Delaware River Basin Commission

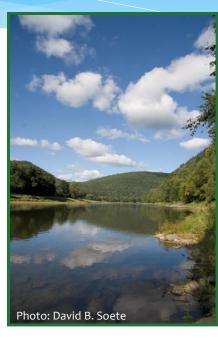
Water Resource Management in the Delaware River Basin

Steve Tambini, P.E. Executive Director

March 17, 2016 AWWA NJ Annual Conference



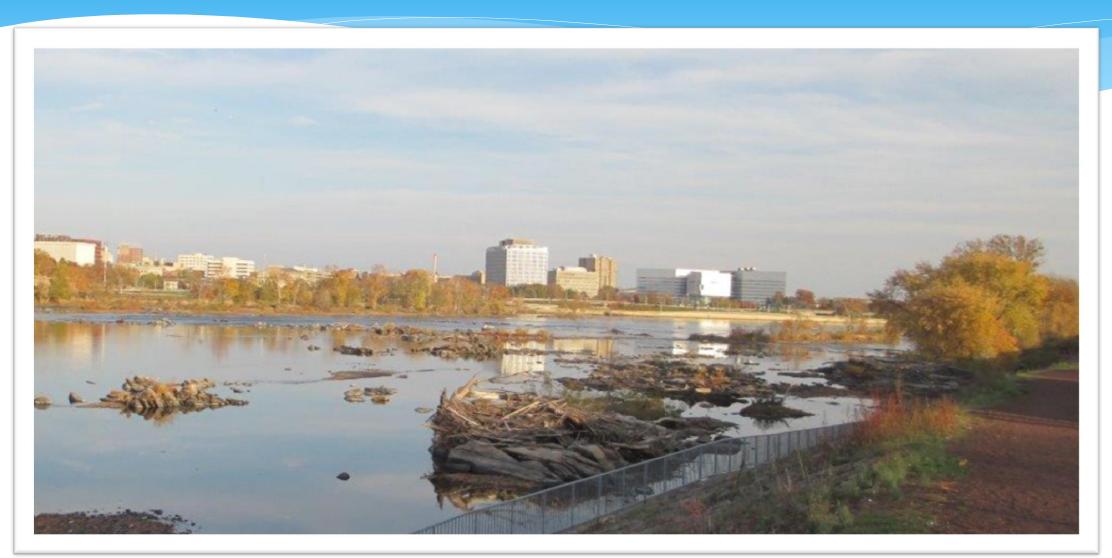






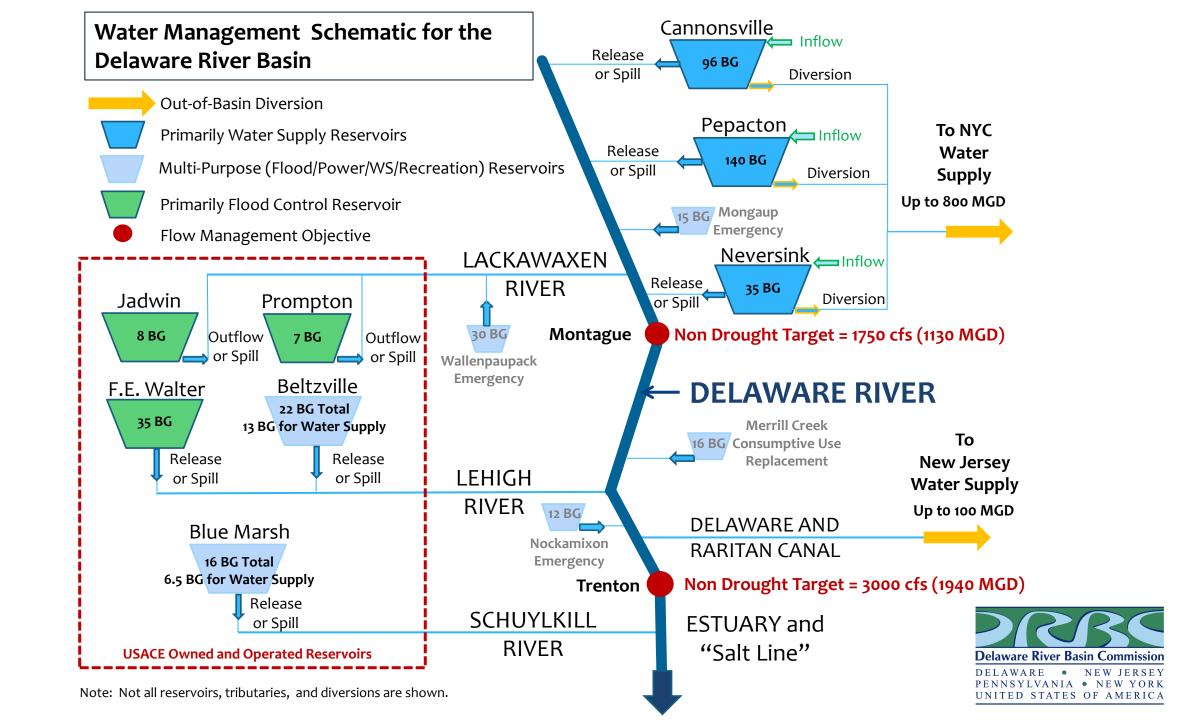


Delaware River @Trenton October 2014





http://www.rentphilly.com/wp-content/uploads/2014/11/pennslanding_waterfront.jpg







DRBC Rules



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PENNSYLVANIA • NEW YORK
UNITED STATES OF AMERICA













Objectives

- Who we are
- What we do
- Why it matters
- Questions



Presenters

Overview

Steve Tambini, P.E.

- History / Background
- Organization

Water Supply

Amy Shallcross, P.E.

- Supreme Court Decree
- Flow Management

Water Quality

John Yagecic, P.E.

- WQ Assessments
- Emerging Issues

Water Use

J. Kent Barr

- Water Usage
- Water Audits



In the News 11/05/2014: California Water Bond

Politics

Californians pass \$7.5 billion water bond: Now what?

Molly Peterson

November 05 2014



https://talgroupinc.files.wordpress.com/2014/10/lakes-thumb.jpg

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In the News 9/28/2015: Climate Issues



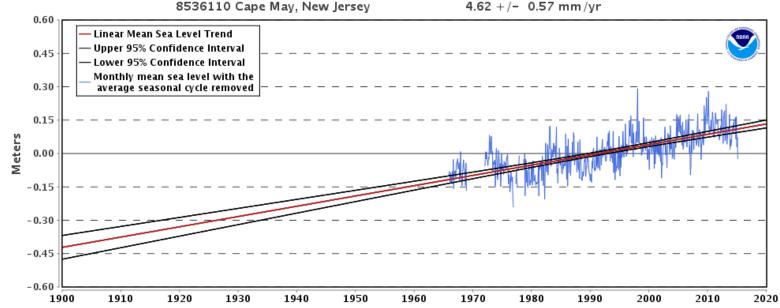
Study: Sea level rise increasing major storms off New Jersey

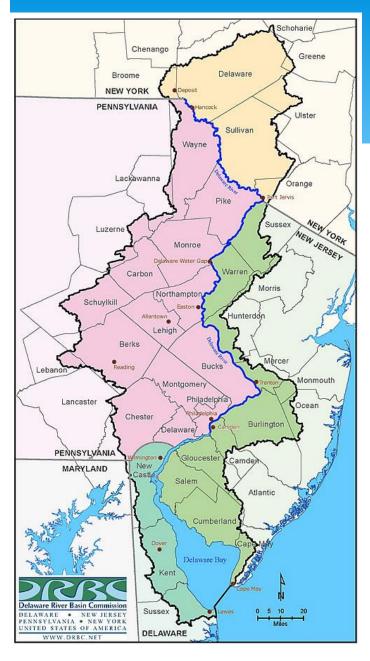
SEPTEMBER 28, 2015, 4:07 PM LAST UPDATED: MONDAY, SEPTEMBER 28, 2015, 4:24 PM

BY WAYNE PARRY

ASSOCIATED PRESS







"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
- <u>15+ million people</u> (about 5% of the U.S. population) rely on the waters of the Delaware River Basin
- □ **Drains 13,539 square miles** of watershed in 4 states.
- □ Water withdrawal in the Basin = 8.7 billion gallons a 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.

Why was the DRBC created?

- a) Water supply shortages and <u>disputes</u> over the apportionment of the basin's waters;
- b) Serious flooding;
- c) Severe <u>pollution</u> in the Delaware River and its major tributaries;

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d) All of the above

Why was the DRBC created?

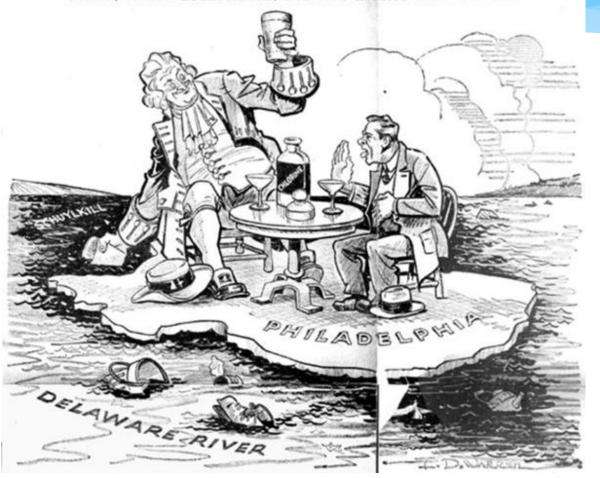
PHILADELPHIA RECORD

The War in Outline :: America Spooks :: Travel

SUNDAY, MARCH 14, 1807

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WATER, WATER EVERYWHERE, BUT NOT A DROP FIT TO DRINK



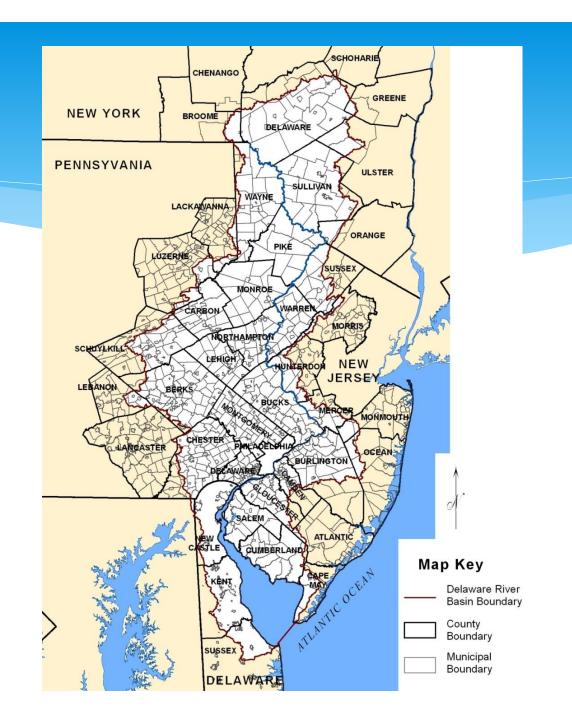
d) All of the above



The Need for Basin-Scale Planning and Management

- 4 States
- 42 Counties
- 838 Municipalities
- NY City





Interstate Water Conflicts

- 1952 NYC seeks to modify Decree to increase its diversion to 800 mgd (with construction of Cannonsville Reservoir)
- 1954 Based on Special Master's report and with agreement of Parties, Supreme Court modifies Decree and retains jurisdiction
- 1954 US Supreme Court Decree:
 - 800 mgd diversion to NYC.
 - 100 mgd diversion to New Jersey
 - Formula for compensating downstream releases.
 - River master appointed (USGS).





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

True or False?







1954 Supreme Court Decree Parties

True or False?







1954 Supreme Court
Decree Parties



DRBC and the Parties to the 1954 Supreme Court Decree

DRBC:

Delaware



New Jersey



Pennsylvania



New York State



Federal Government





Parties to the 1954 Supreme Court Decree:

New York City





What is an interstate compact?

• An arrangement between two of more states that is designed to solves their common problems and that becomes part of the laws of each state.

• Under Article 1, Section 10, Clause 3 of the US Constitution states: "No state shall, without the Consent of Congress... enter into any Agreement of Compact with any other State".

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1961 Delaware River Basin Compact

- Recognizes DRB as a regional asset with local State and National interests
- Management and control of water resources under a <u>Comprehensive Plan</u> will bring benefits and is in the public welfare.
- The Commission shall develop and effectuate plans, policies and projects relating to the water resources of the Basin
- The Commission (without unanimous consent of the 1954 Decree parties) cannot change or impact the Supreme Court Decree.

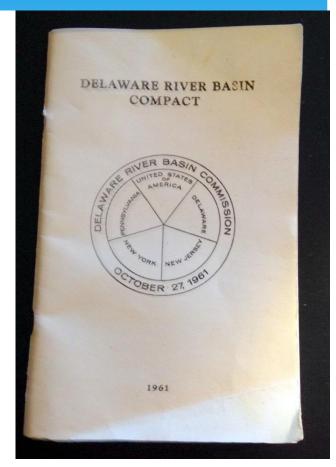


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DRB Compact Basic "Charges"

- From the Compact Preamble:
- a **Comprehensive Plan** administered by a <u>basin wide agency</u> will provide
 - √ flood damage reduction;
 - ✓ conservation and development of ground and surface water supply...;
 - ✓ development of recreational facilities;
 - ✓ propagation of fish and game;
 - ✓ promotion of related... watershed projects;
 - ✓ protection to fisheries...;
 - ✓ development of hydroelectric power;
 - ✓ control of movement salt water;
 - ✓ abatement and control of stream pollution;
 - √ and regulation towards the attainment of these goals.





Water Resource Objectives

- An adequate and sustainable supply of water for the basin.
- Clean and heathy water resources throughout the Basin.
- Reduction of losses and impacts in areas prone to flooding within the Basin.



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