

Building Blocks of Climate Resilience: *Highlights from the Delaware River Basin Commission*

September 27, 2024
CDRW Forum



Kristen Bowman Kavanagh, P.E.
Amy Shallcross, P.E.
Elizabeth Koniers Brown
Avery Lentini



12th Annual Delaware River Watershed Forum

What's next for the watershed.

Thank you
Sponsors:



Housekeeping

- Please turn phones on silent
- Take care of your needs!
 - Feel free to use the restroom/get water as needed
 - If you need more transition time between sessions, feel free to leave when needed
- If you haven't yet, please download our event app! Search for CVENT in app store or scan the QR code posted around the event site
 - The app houses all important Forum info including upcoming sessions and room locations
- Staff hosts are available if you need anything!

Meet Your Presenters



Kristen Bowman Kavanagh
Deputy Executive Director
Kristen.B.Kavanagh@DRBC.gov



Beth Brown
Director, External Affairs &
Communications
Elizabeth.Brown@DRBC.gov



Amy Shallcross
Manager, Water Resource
Operations
Amy.Shallcross@DRBC.gov



Avery Lentini
Community Engagement Specialist
Avery.Lentini@DRBC.gov





The Delaware River Basin Commission is a federal-interstate Compact agency established in 1961.



Our Mission

Manage, protect, and improve the water resources of the Delaware River Basin.

Our Vision

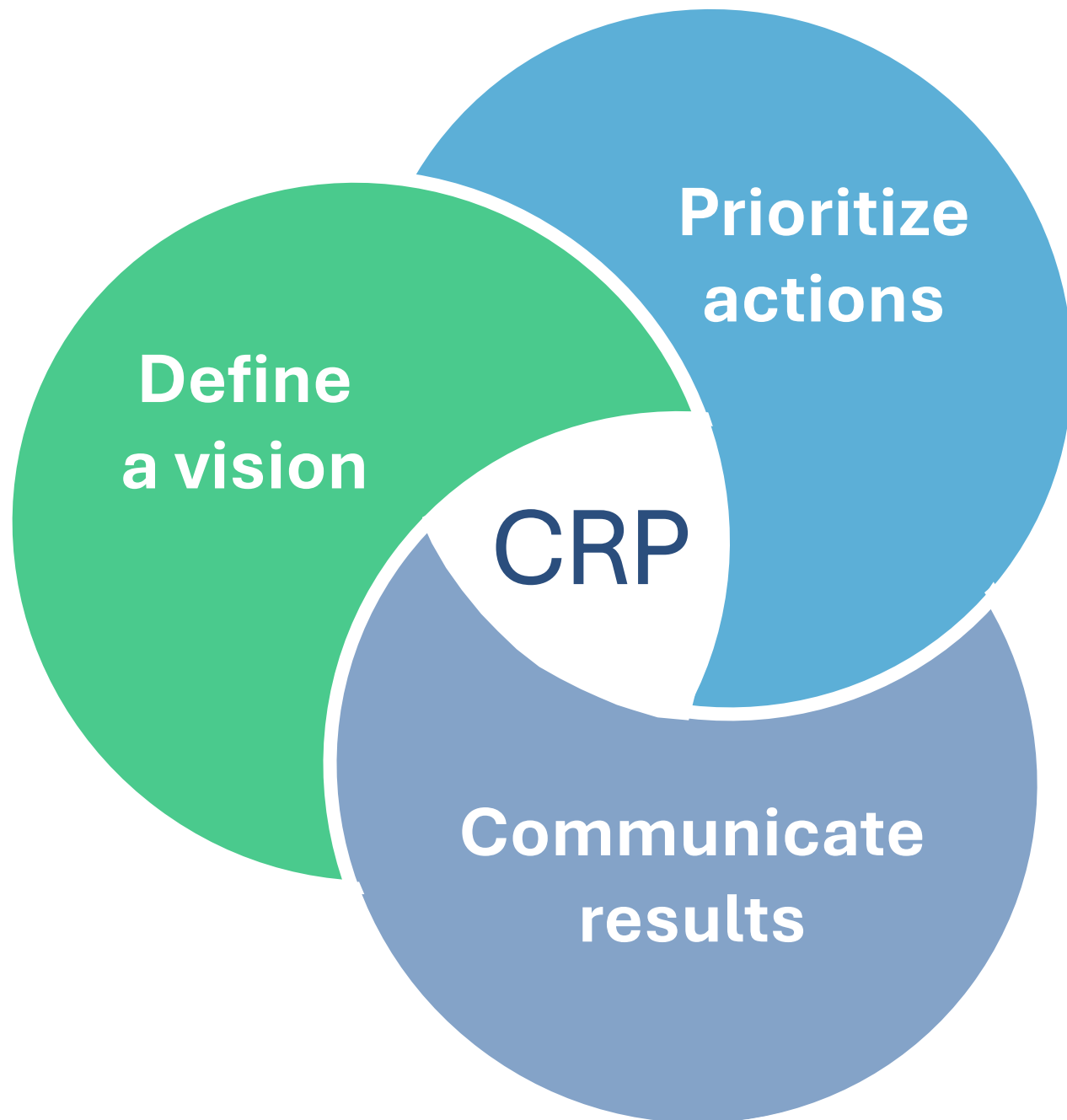
Provide trusted, effective, and coordinated management of the Basin's shared water resources.



Delaware River Basin Compact Basic “Charges” include planning through regulation.

A Comprehensive Plan administered by a basin wide agency will provide:

- abatement and **control of stream pollution**;
- 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**;
- **flood damage reduction**;
- and **regulation** towards the attainment of these goals.



DRBC's climate resilience plan will **coordinate, guide, and expand ongoing and future work**

Parallel processing: Planning and implementation

Resilience Team

Climate resilience plan framework

- Define vision, goals, and metrics
- Outline next steps

Parallel processing: Planning and implementation

Resilience Team

Climate
resilience plan
framework

Vulnerability
assessment &
gap analysis

- What information do we have? What information do we need?
- Prioritized list of actions

Parallel processing: Planning and implementation

**Resilience
Team**

Climate
resilience plan
framework

Vulnerability
assessment &
gap analysis

Revise,
update,
re-evaluate

Parallel processing: Planning and implementation

**Resilience
Team**

Climate
resilience plan
framework

Vulnerability
assessment &
gap analysis

Revise,
update,
re-evaluate



Staff continue ongoing
climate-related work

Commission takes additional
actions as identified in CRP



Modeling Basin-Scale Conditions



Technical Tools



Outreach and Communications



Public Policy and Engagement

Building Block: Modeling Basin- Scale Conditions



How does predicted climate change translate to basin impacts?

- Warmer
- Wetter
- more extreme
- higher sea levels

Amy L. Shallcross, P.E.
Manager, Water Resource Operations



The question determines the tools

Will the drought management plan still be effective?



The tale of two cities, a state, and drinking water supplies

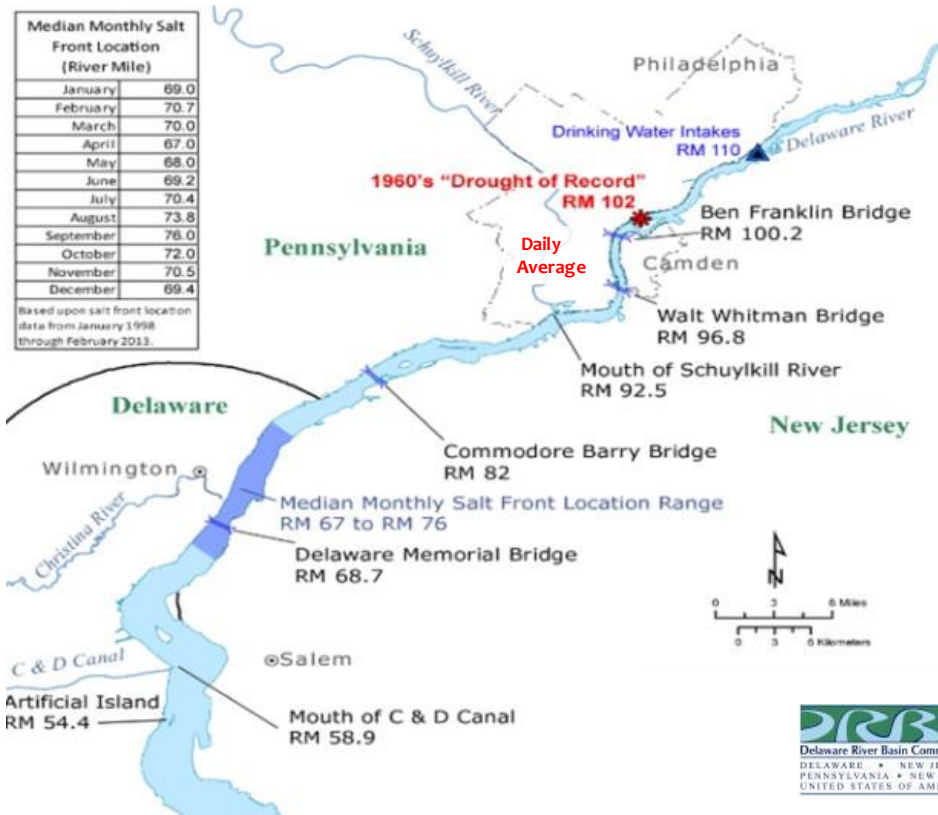


DRBC Drought Management

- Protect water supplies
 - NYC
 - Philadelphia
 - NJ (Central, SW)
- Repel salinity (Flow Objectives)
 - Montague from NYC
 - Trenton from LB Reservoirs

Salinity intrusion is monitored with the salt front.

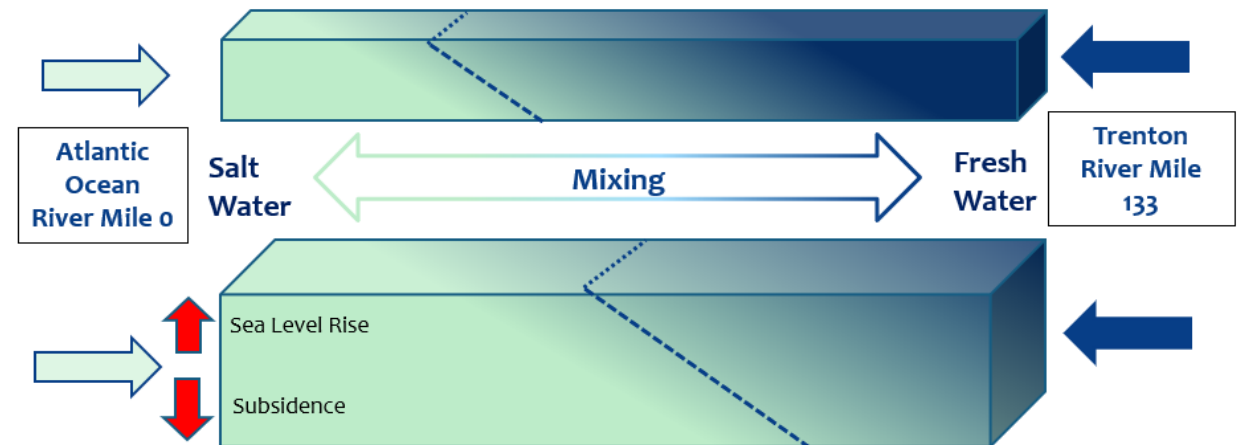
Salt Front is the 7-day average 250 mg/l isochlor (chloride concentration). Used as an indicator.



Approximately 0.45 ppt salinity

Risks of Sea Level Rise

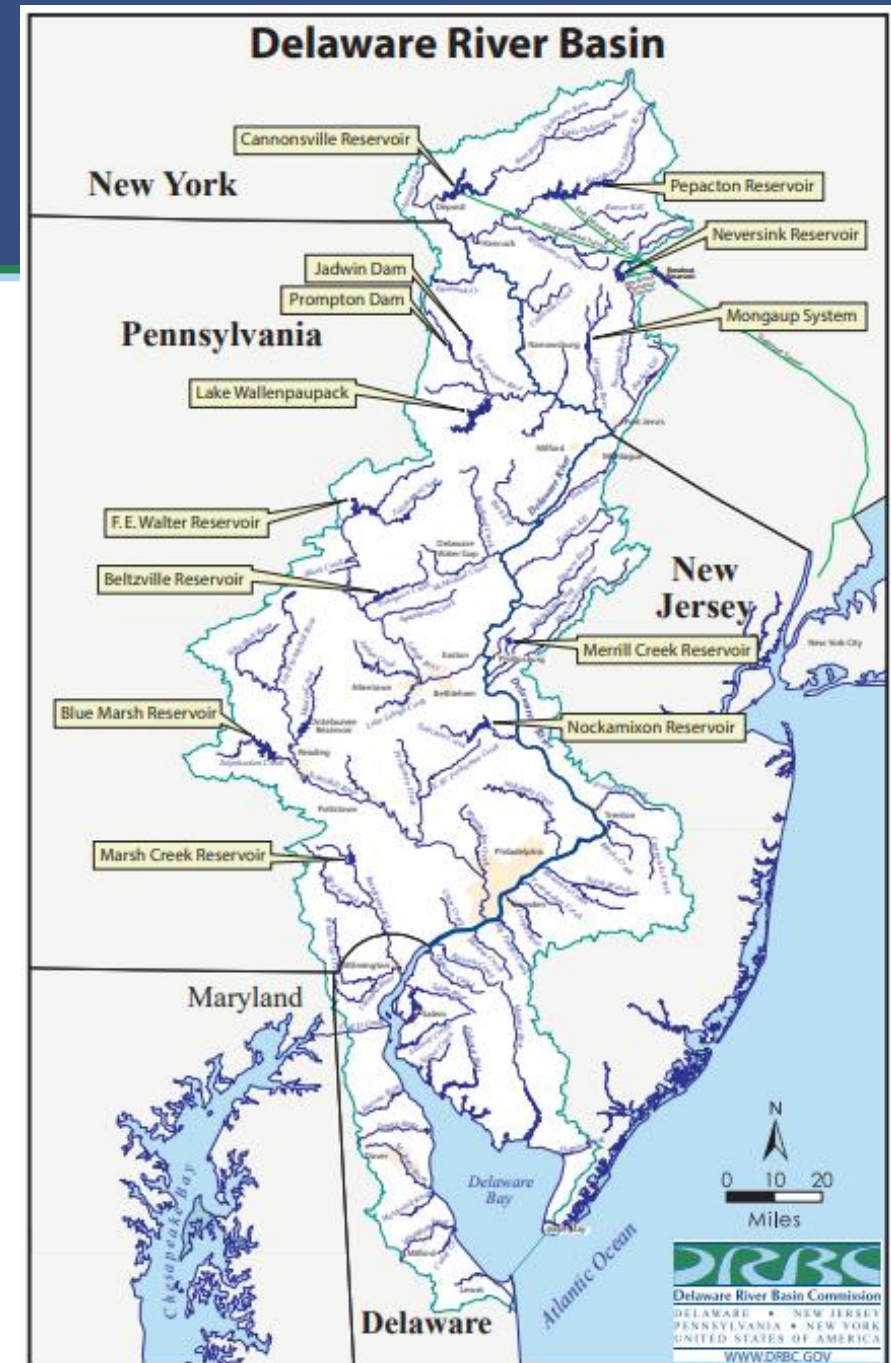
Conceptual diagram of how SLR may affect the location of the salt front.



Location of the salt front depends on the ocean pushing into the bay and the freshwater flow pushing out to the ocean

Water supplies are supported by both storage and releases.

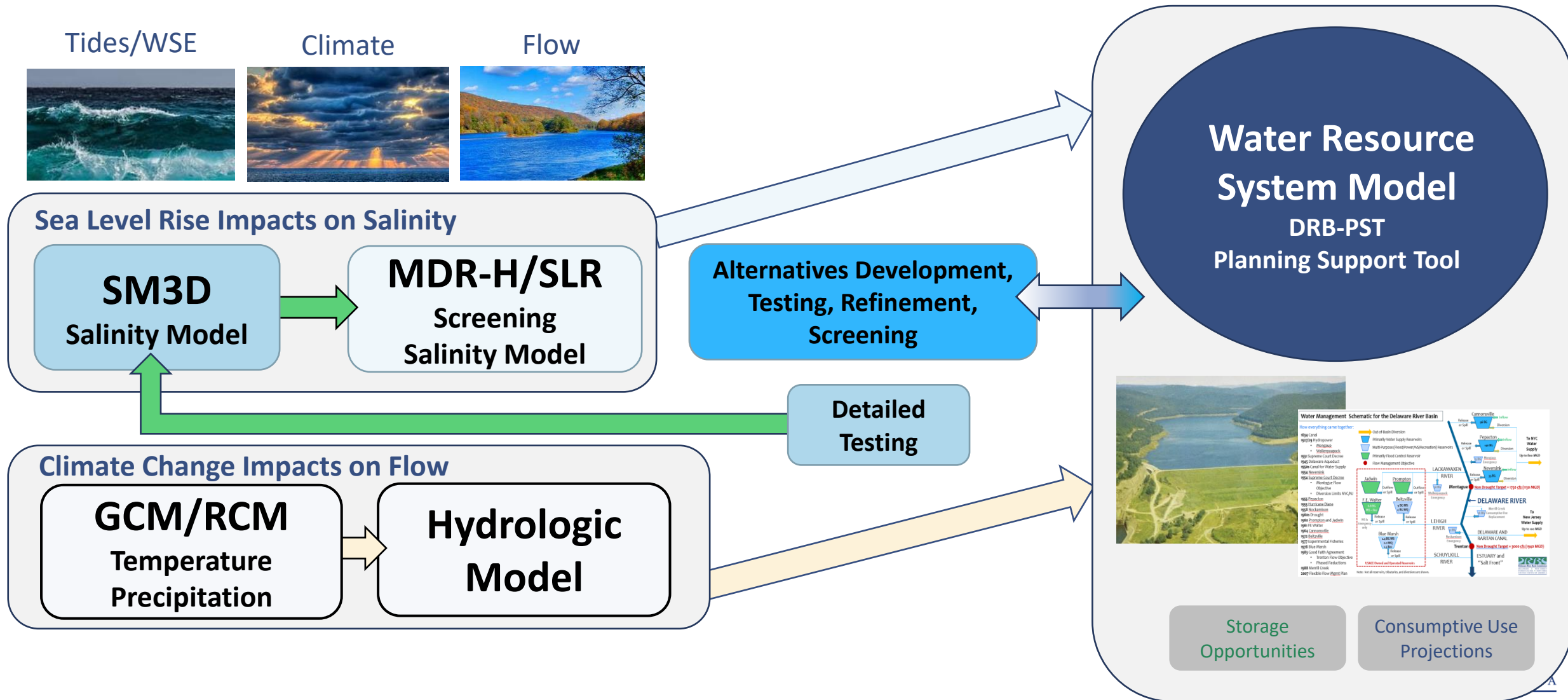
- Store when flows are high
 - New York City water supply
 - Montague Flow Objective (NYC)
 - Trenton Flow Objective (DRBC/Federal Res.)
- Release when flows are low
 - Run-of-river water supplies (NJ, Philadelphia)
 - Salinity Repulsion



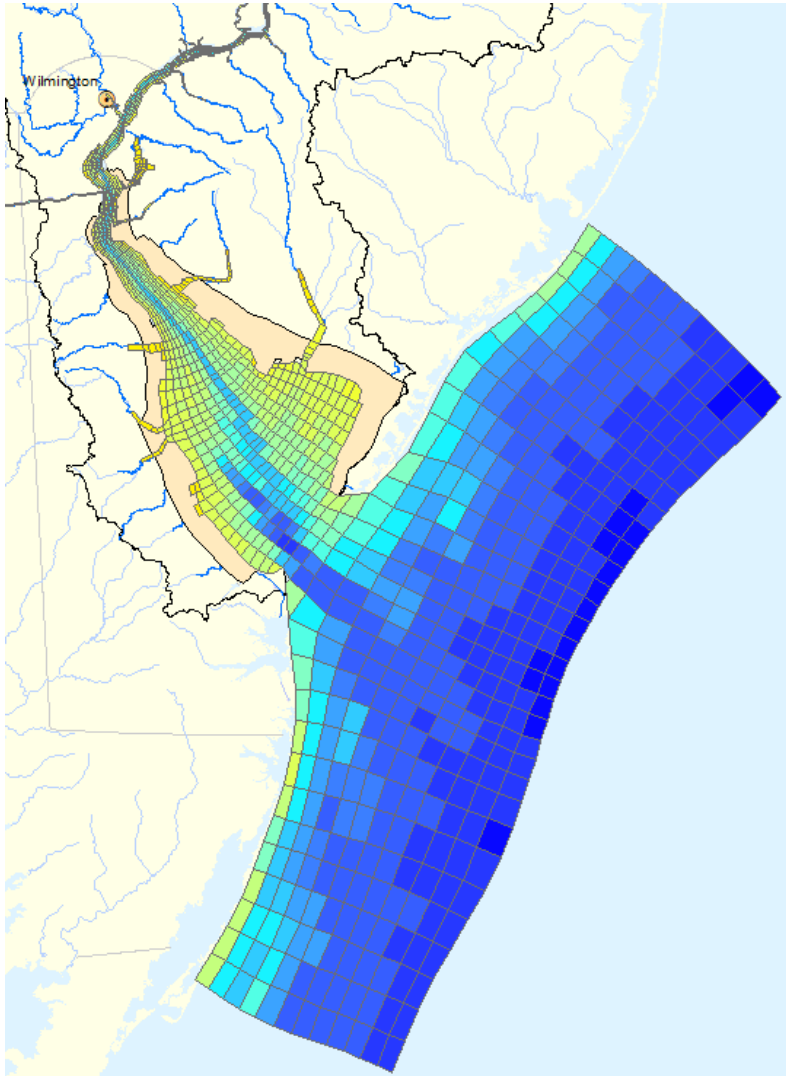
What do we need to know?

- How far will salt travel upstream?
- How much water do we need to repel salinity, for water supply?
- Is there enough water at the right time?
- Does evaporation offset increases in precipitation?
- What happens if there is no snowpack?

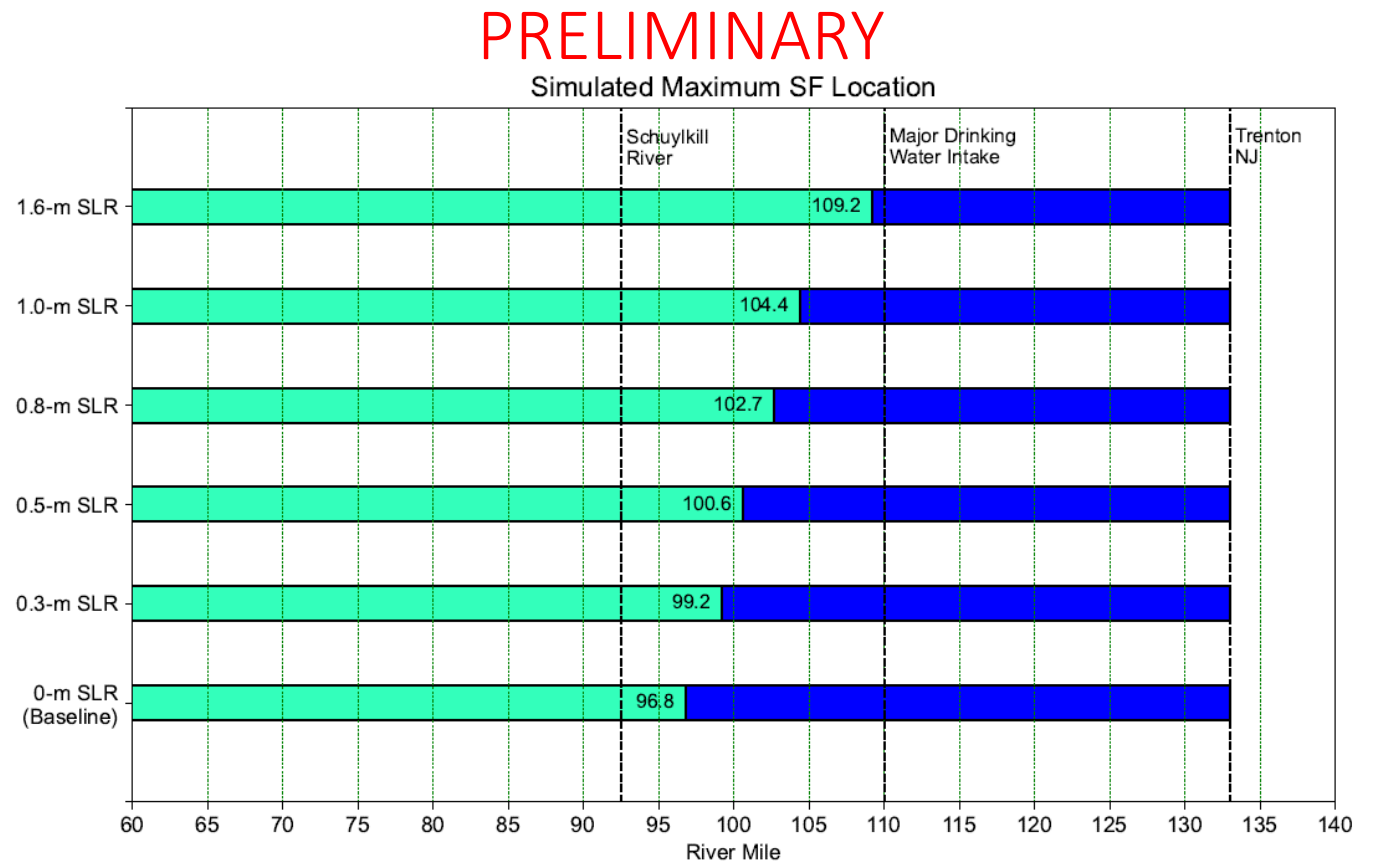
Several models are used to evaluate CC impacts



Preliminary results indicate we may not be able to repel salinity.



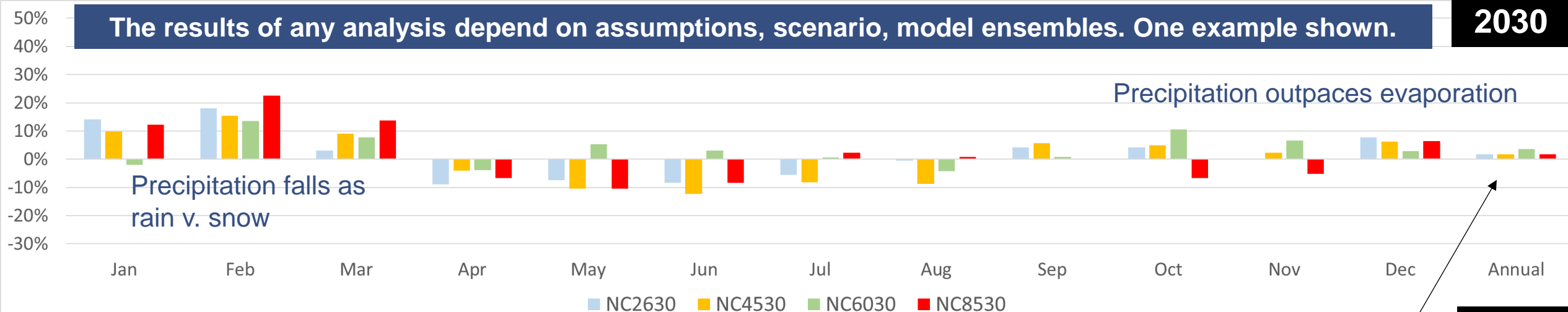
Simulations with the three-dimensional hydrodynamic salinity model indicate that additional water may be needed for salinity repulsion.



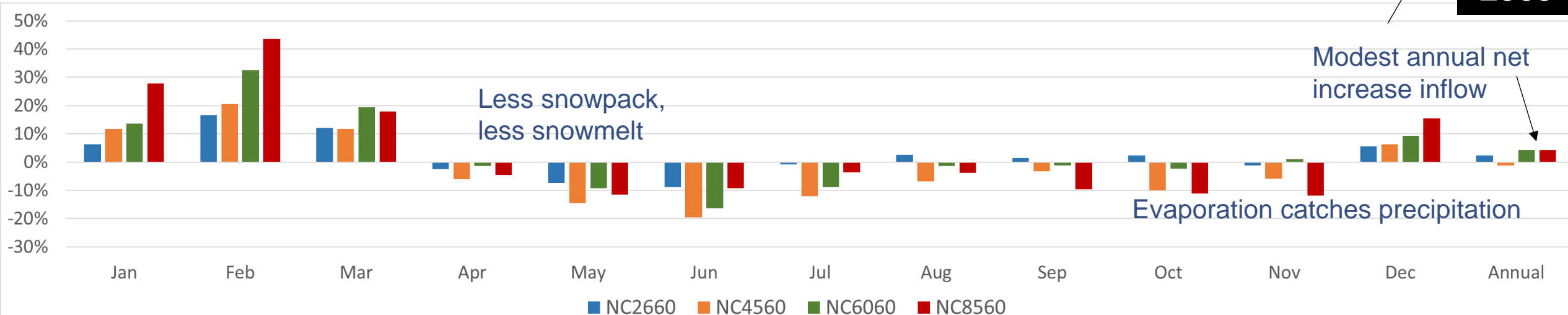
Results indicate similar flows at different times

The results of any analysis depend on assumptions, scenario, model ensembles. One example shown.

2030



2060



Different tools and models are needed to evaluate different types of impacts

- Three-dimensional salinity model
 - Extent of intrusion
 - Water needed for repulsion
- Rainfall-runoff model
 - Available water/seasonality
 - Frequency of extremes
- Reservoir and river model
 - Adequacy of supply
 - Efficiency

Building Block: Technical Tools



Projecting Extreme Precipitation in the Delaware River Basin

An Interactive Tool Supporting Regional Resilience

Select By:

County

Municipality

HUC 12

Emission Scenario:

Low RCP 4.5

High RCP 8.5

Time Period:

2020-2069

2050-2099

Annual Exceedance Probability:

50%

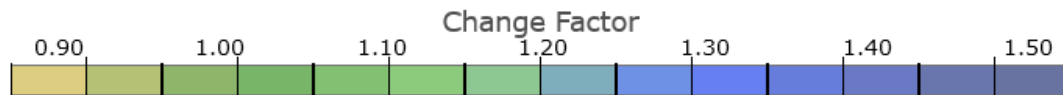
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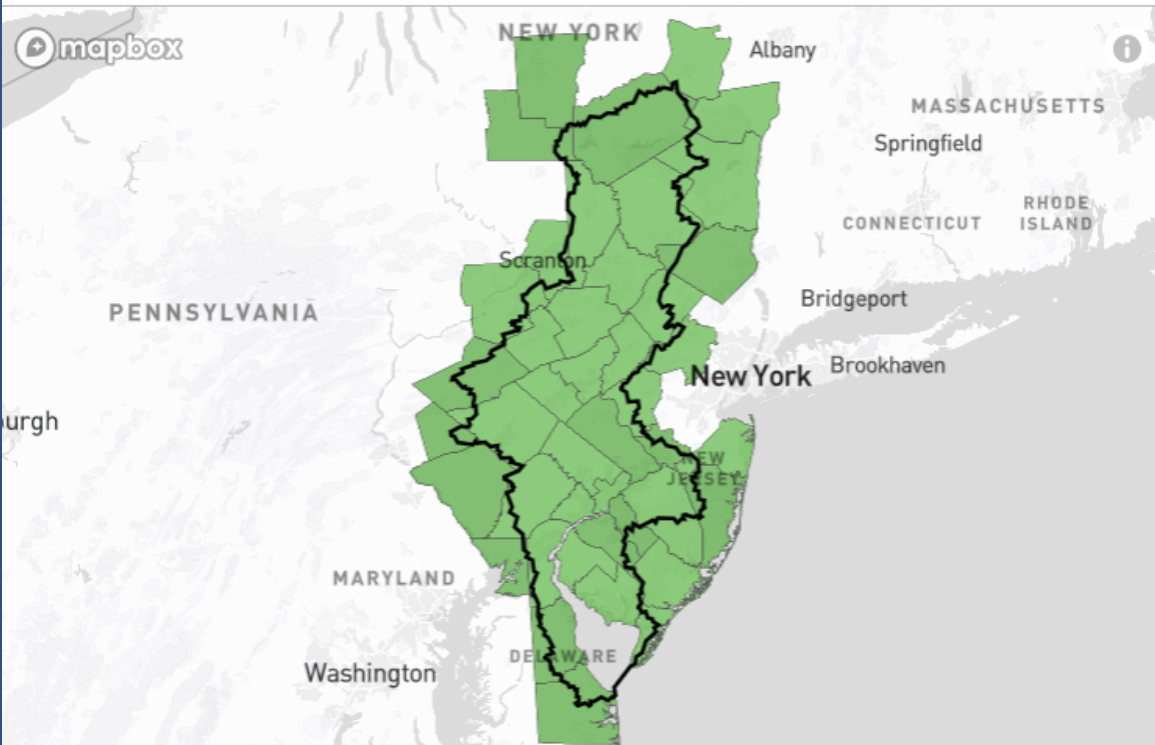
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User Guide

IDF Curve

About the Data



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Emission Scenario: Changes the projection between low emission future

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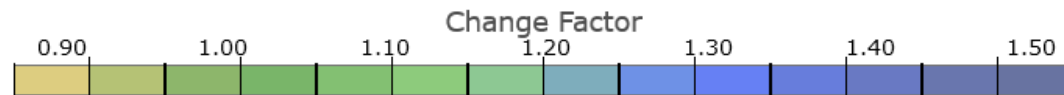
Low RCP 4.5 High RCP 8.5

Time Period:

2020-2069 2050-2099

Annual Exceedance Probability:

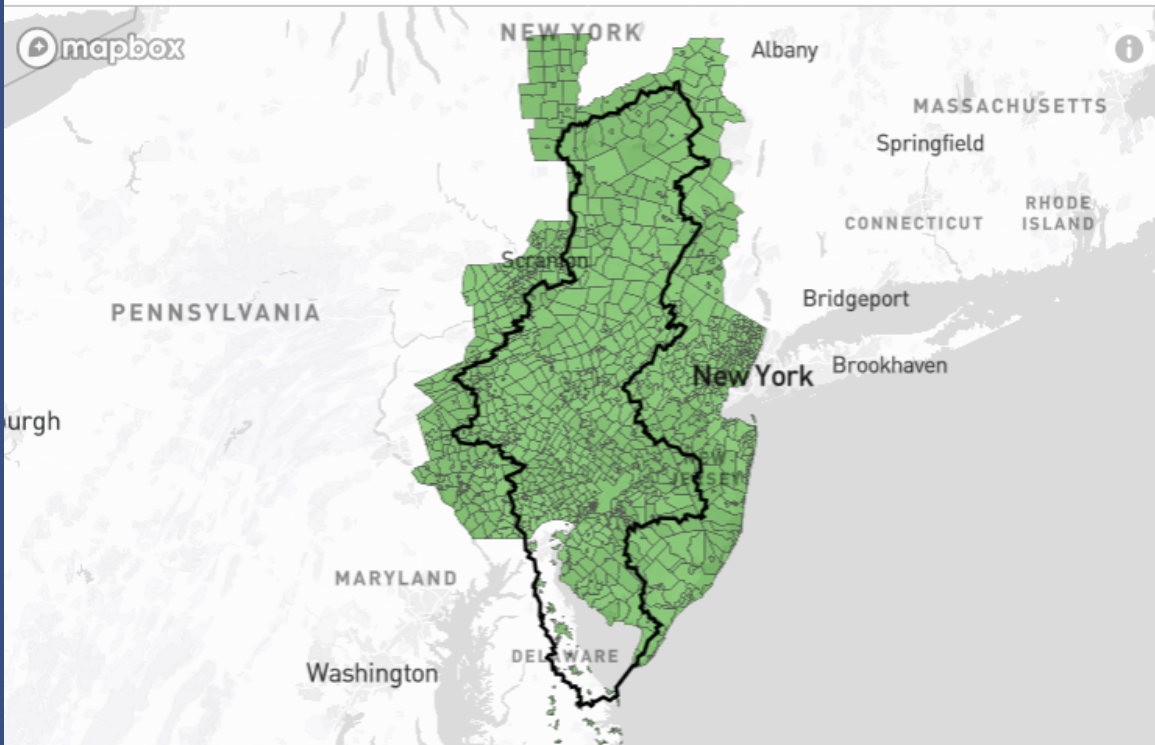
50% 20% 10% 4% 2% 1%



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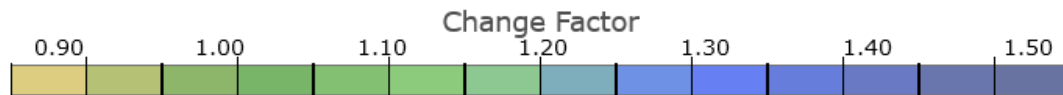
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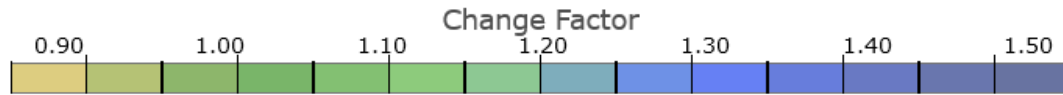
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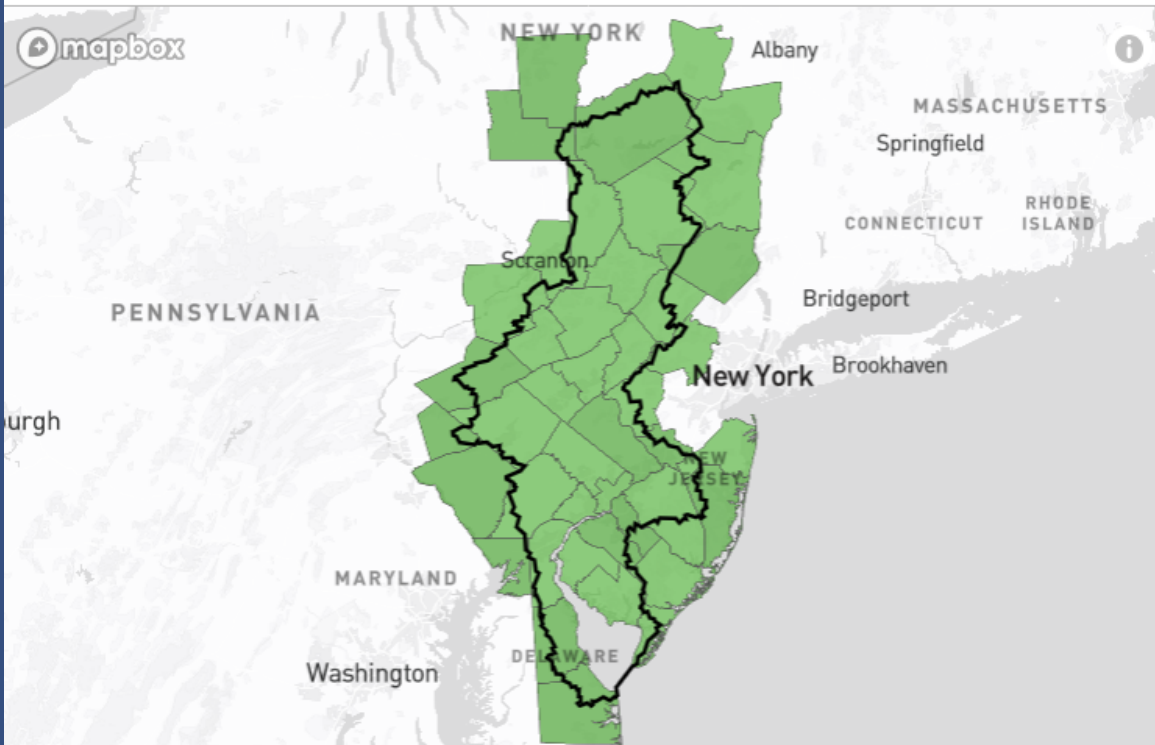
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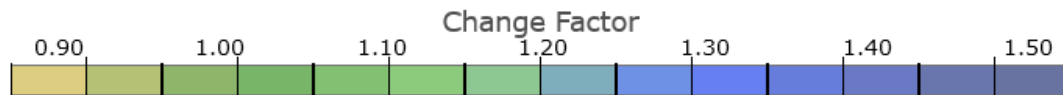
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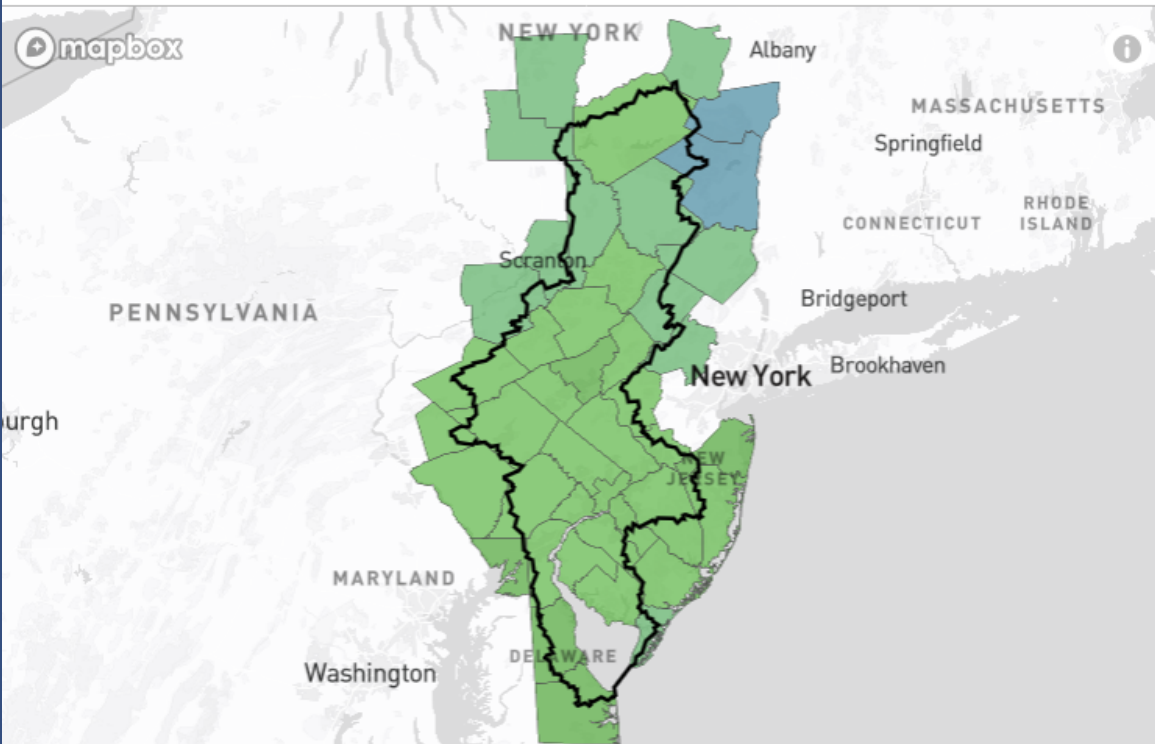
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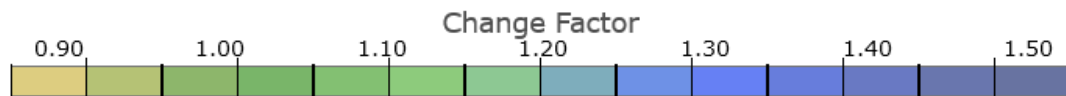
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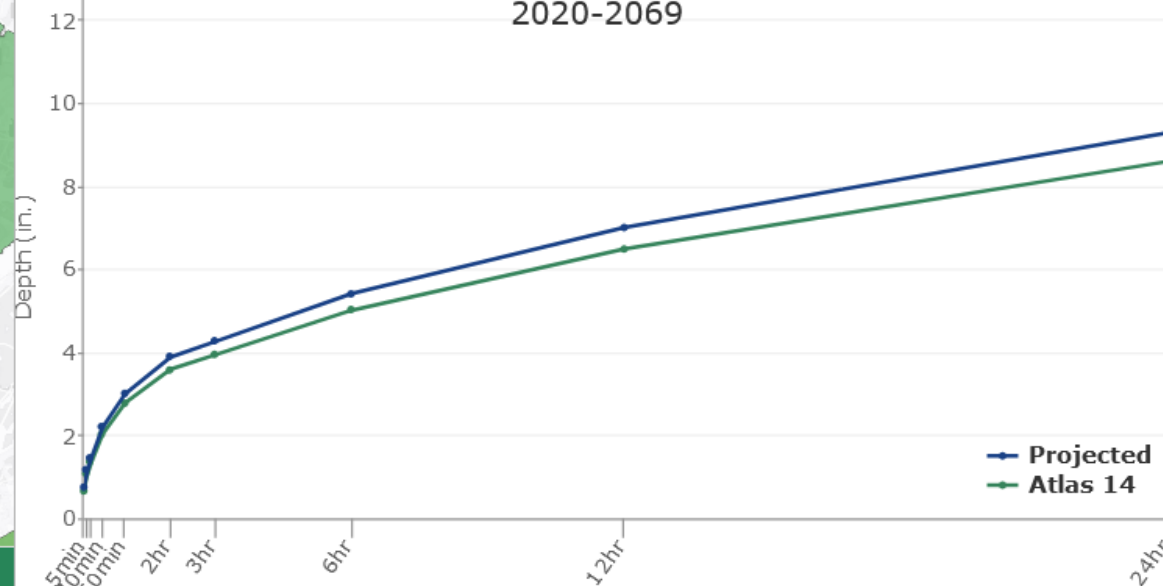
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Change Factors by Percentile for County: Lehigh, PA

10th	17th	25th	Median	75th	83rd	90th
0.93	0.96	0.99	1.08	1.17	1.20	1.24

IDF Curve: 1% Annual Exceedance Probability Under RCP 4.5, 2020-2069



EXCEL



PDF



Toggle Confidence Intervals



Powered by NRCC

Projected Precipitation (inch)

Atlas 14 Precipitation (inch)

Duration	Median	Median
5min	0.73	0.68
10min	1.16	1.07

Projecting Extreme Precipitation in the Delaware River Basin

An Interactive Tool Supporting Regional Resilience

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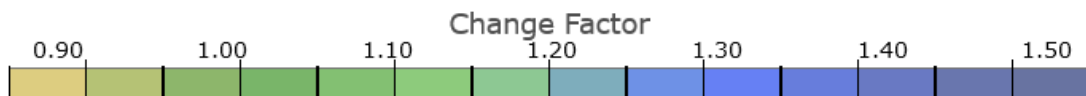
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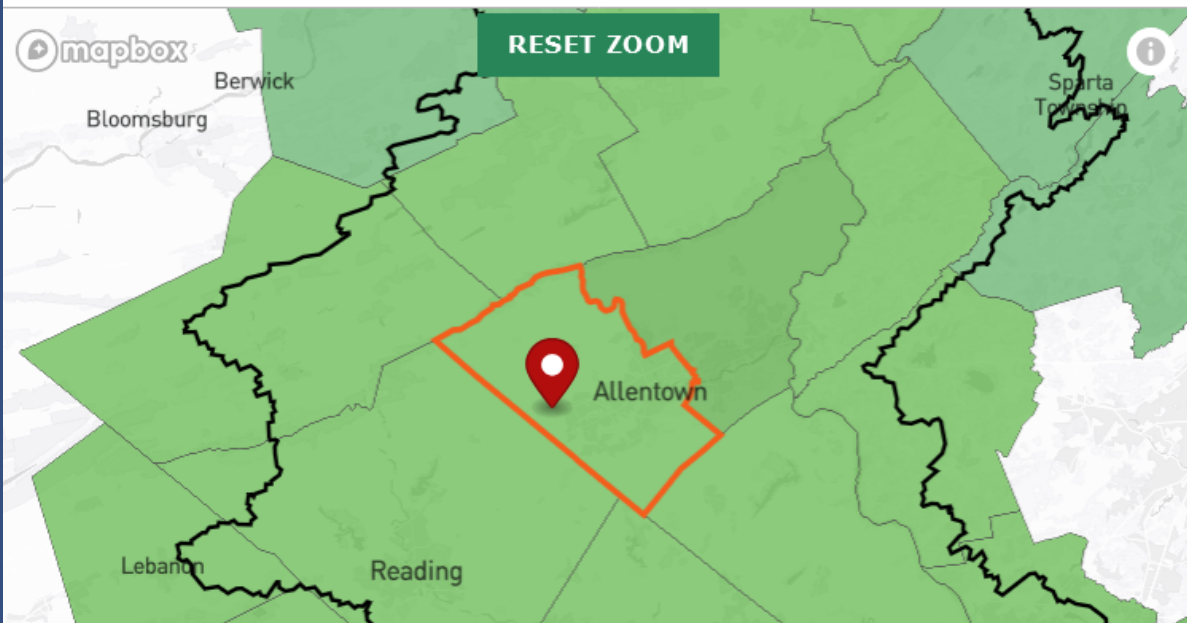
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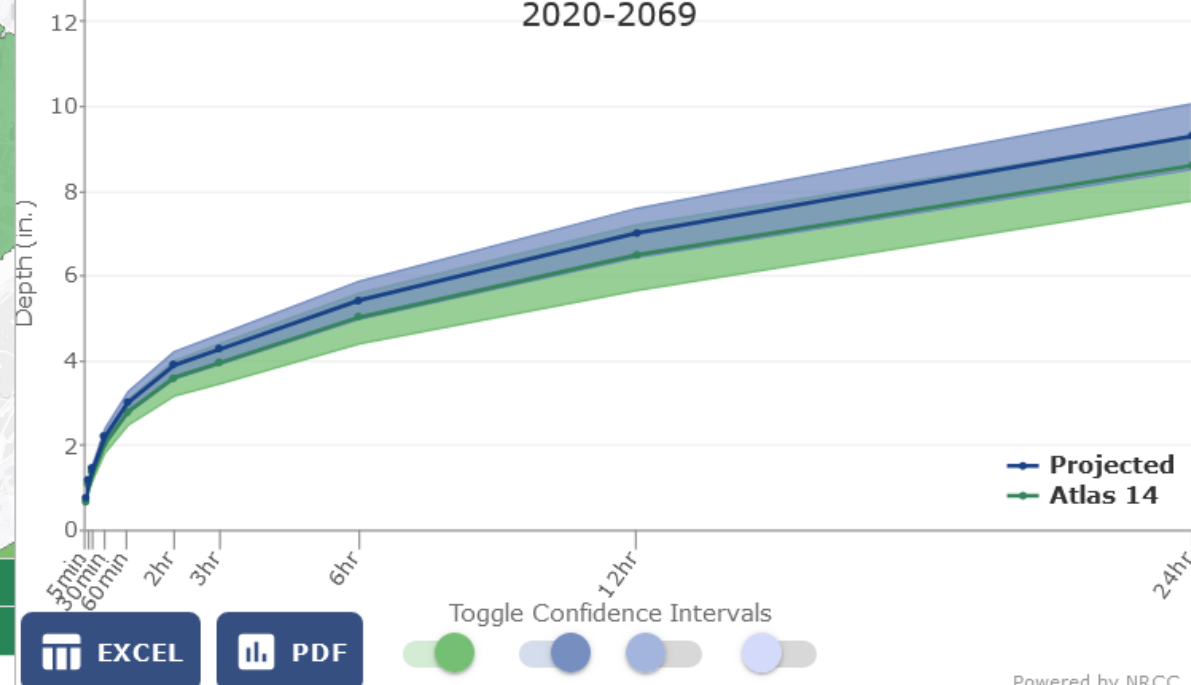
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IDF Curve: 1% Annual Exceedance Probability Under RCP 4.5, 2020-2069



Powered by NRCC

Projected Precipitation (inch)				Atlas 14 Precipitation (inch)		
Duration	25%	Median	75%	10%	Median	90%
Last Hovered (12hr)	6.42	7.00	7.58	5.64	6.48	7.19

Building Block: Outreach and Communications



Connecting the public with science-based data for climate action



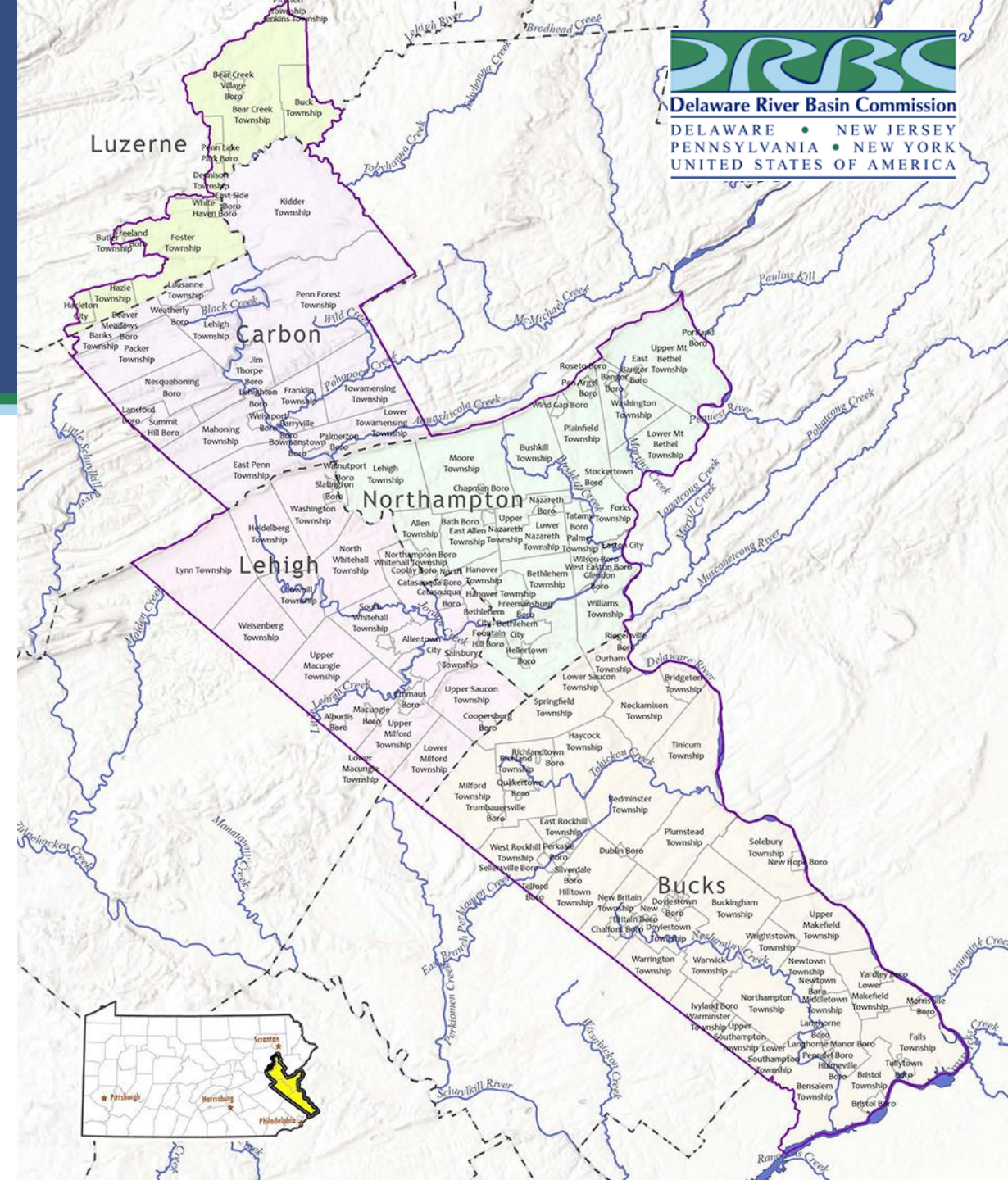
- Flood loss reduction is a key mission in DRBC's water resource management.
- Communities face barriers in planning for and implementing climate resilience projects.
- Considering climate in DRBC's engagement and planning.

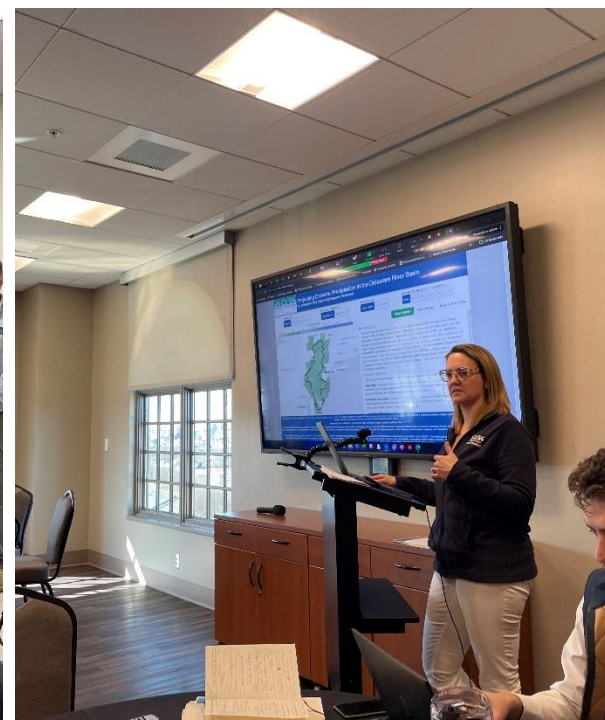
Hazard mitigation planning is an opportunity to initiate climate resilience on the local level.



DRBC Partners with the Pennsylvania Emergency Management Agency (PEMA)

- Middle Delaware Flood Mitigation Assistance Workshops
- Project focus: Bucks, Carbon, Northampton, Lehigh, and part of Luzerne counties
- Goal: increase capacity of local municipalities to apply for grants and access state and federal resources





Event is free and open to the public.

DELAWARE RIVER

Climate Practitioners Workshop



October 28, 2024,
10am-4pm



The Discovery Center
3401 Reservoir Dr. Philadelphia, PA 10121



Hosted by the
Delaware River Basin
Commission (DRBC)
and the U.S.
Environmental
Protection Agency
(EPA) Region 3



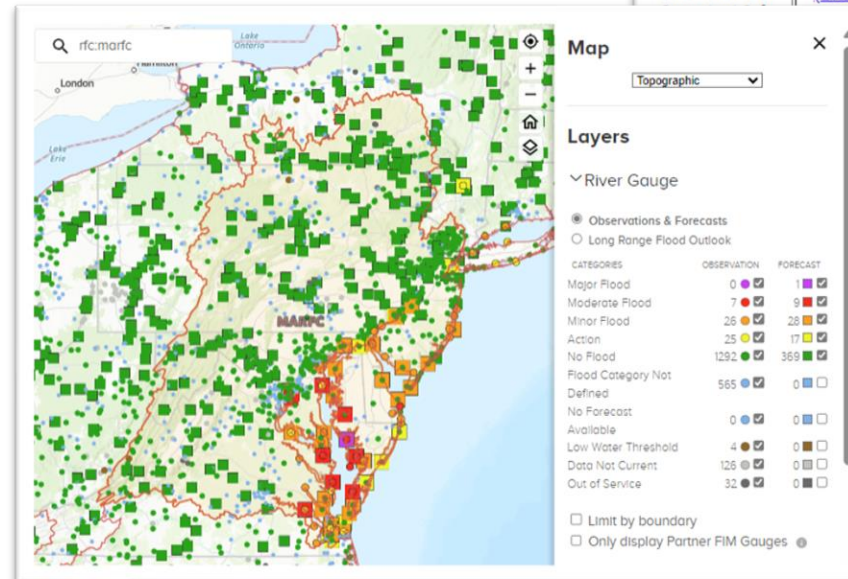
TinyURL.com/ClimatePractitionersWorkshop

Sharing public tools for planning and awareness

- Middle Atlantic River Forecast Center (MARFC)
- Flood Resources Portal
- Silver Jacket guides
- And more!



Flood Alerts	Flood Forecasts	Flood Zones	Flood Preparedness	Flood History
Sign Up For: <ul style="list-style-type: none">• USGS Water Alert• iNWS Mobile Alerts• Wireless Emergency Alerts (WEA) Links with	NWS Flood Forecast Maps (Incl. Several Tributary Locations): <ul style="list-style-type: none">• Upper Basin• Lower Basin National Water Prediction Service River Flood Stage Dashboard (DRBC Map of USGS a)	Do You Live in One? Flood Insurance Flood Insurance Claims in the DRB What is a 100-Year Flood? More FEMA Products and Resources	Know Your Risk Make a Plan Vehicle Safety Federal & State Resources/Links Floods: The Awesome Power (pdf) Focus on Floods	A Look Back Remembering 1955 DRBC Flood Loss Reduction Activities



Looking Ahead



Building Block: Public Policy and Engagement



The DRBC makes
policy and takes
public input
about climate change
through formal and
informal processes.



The DRBC's authority and jurisdiction are defined by the Delaware River Basin Compact

- U.S. Constitution, Compact Clause, Article 1, Section 10, Clause 3.
- Once approved by Congress, a Compact is an agreement with the force of federal law to effectuate shared interests and responsibilities.
- Pub. L. 87-328, 75 Stat. Ann. 688 (1961).



The DRBC may make and enforce reasonable rules and regulations

- Compact Section 14.2(a)
- Existing regulations cover
 - Water Quality Standards and Regulations
 - Flood Plain Regulations
 - Water Supply Charging
 - Southeastern Pennsylvania Ground Water Protected Area
 - High Volume Hydraulic Fracturing
- Future "climate" regulations - ???
- Notice and comment



Other formal opportunities for public engagement



Upcoming DRBC Public Participation Opportunities

Public Hearing: Wednesday, August 7, 1:30 p.m., Virtual

Business Meeting: Thursday, September 5, 10:30 a.m., Virtual



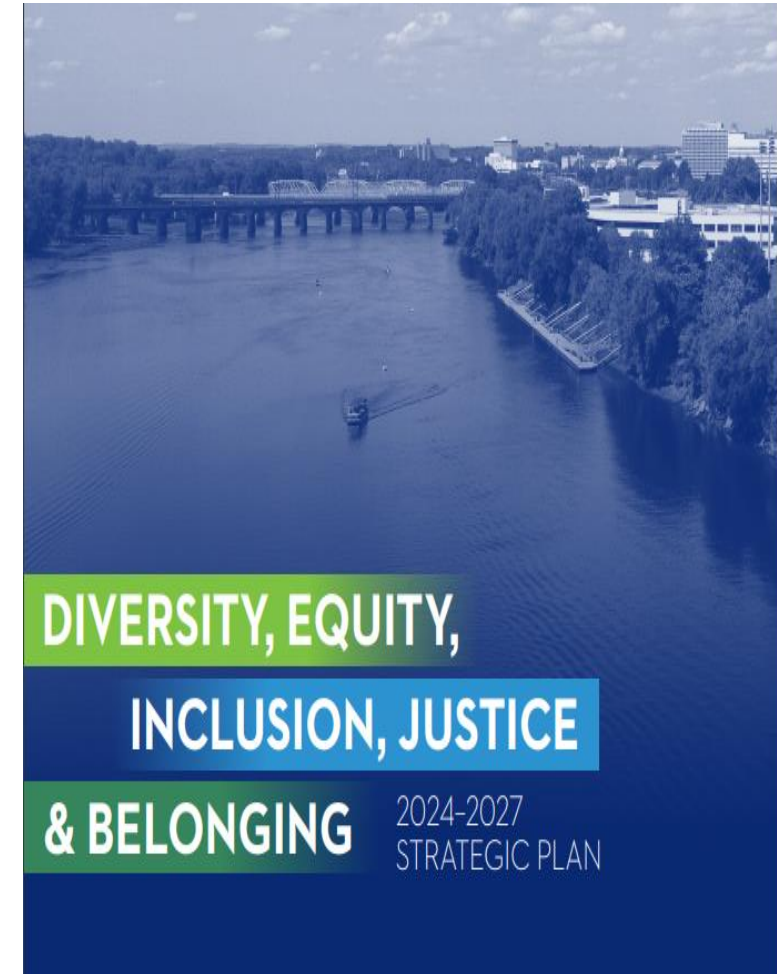
DRBC hearings & meetings are open to the public! Attend to learn about Delaware River Basin water resource management & provide comment if desired!

Example

- Resolutions
- Docket hearings
- Comprehensive Plan
- Water Resources Program
- ...all with notice and comment

The DRBC may take other policy actions to advance its mission

- 2024 Diversity, Equity, Inclusion, Justice & Belonging Strategic Plan
- Incorporates climate and water equity considerations
- Cross-walk with Climate Resilience Plan



Other informal public engagement opportunities

- Advisory Committee Meetings
- Open public comment
- Legislative meetings
- *Our Shared Waters* Roundtables
- Surveys
- Outreach events



Through a Climate
Resilience Plan,
science-based
recommendations
may
result in regulatory or
policy action.



Components of "Resolution 2024-04"



- Prioritized actions for
 - evaluating impacts of climate change
 - formulating management approaches to improve resilience and adaptation to a changing climate
- Consultation with stakeholders
- Funding priorities and timing
- Actions within Commission authority

Climate Resilience Plan Considerations

■ Flood loss

- Challenge: Frequency and extent of non-tidal, localized, and main stem flooding; Frequency and extent of tidal flooding, storm surge flooding.
- Climate Resilience Plan: Review and consider updates to DRBC's Flood Plain Regulations.

■ Water quality

- Challenge: Develop and review surface water quality trends due to climate change for temperature, salinity, pH, and more.
- Climate Resilience Plan: Review and consider updates to DRBC's Water Quality Regulations.



Climate Resilience Plan Considerations

■ Water efficiency

- Challenge: Re-evaluate water use and consumptive use projections based on climate trends.
- Climate Resilience Plan: Review and consider updates to DRBC's Rules of Practice and Procedure and the DRBC Water Code.

■ Project review

- Challenge: Significant climate-related risks and vulnerabilities posed to, or by, projects submitted for review under Sec. 3.8, Sec. 10.3, or Art. 11 of the Compact.
- Climate Resilience Plan: Regulations under DRBC's Rule of Practice and Procedure.

■ Environmental Justice

- Challenge: Enhance the resilience of overburdened and underrepresented communities.
- Climate Resilience Plan: Identify and propose actions consistent with the Commission's Policy on DEIJB; integrate measures to promote equity and environmental justice.



Stay engaged with the DRBC

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DRBC.gov

kristen.b.kavanagh@drbc.gov

amy.shallcross@drbc.gov

elizabeth.brown@drbc.gov

avery.lentini@drbc.gov

Photo Credits:

Slide 5. Middle Atlantic River Forecast Center
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Coalition for the
Delaware River
Watershed

12th Annual Delaware River Watershed Forum

What's next for the watershed.

Thank you
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