



TREB 2012 - Table of Contents

Watersheds & Landscapes

Population, Land Use, Protected Lands

Water Quantity & Hydrology

Withdrawals, Groundwater, Consumption

Water Quality

DO, Nitrogen, PCBs

Sediments

Loadings, Organic Carbon, Dredging

Aquatic Habitats

Benthic, Tidal Wetlands, Fish Passage

Living Resources

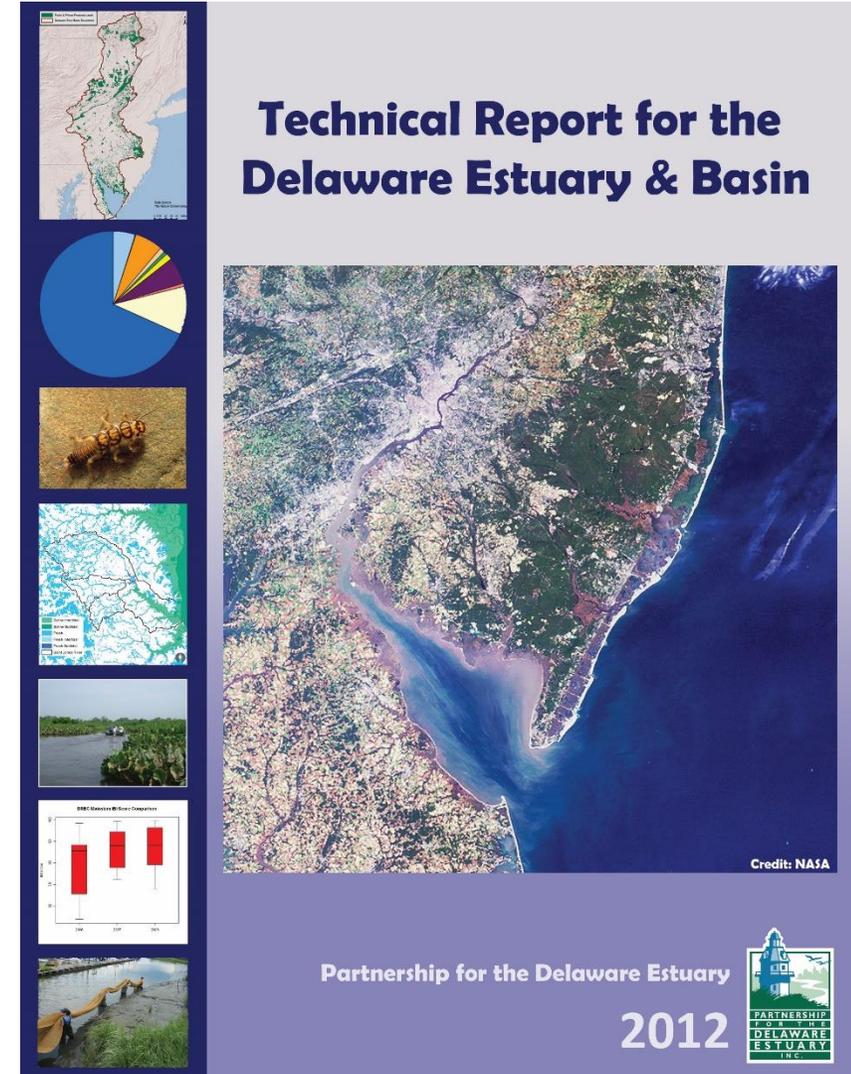
Horseshoe Crabs, Oysters, Macroinverts

Climate Change

Temperature, Heat Waves, Precipitation, SLR

Restoration

Acres Restored, Types, Investment

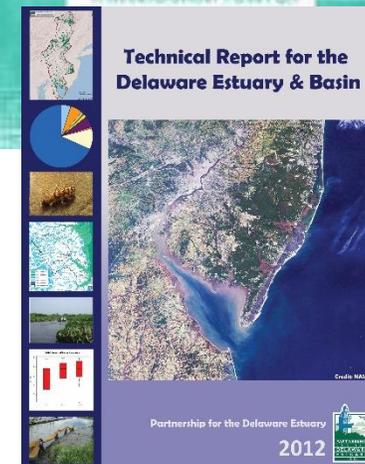
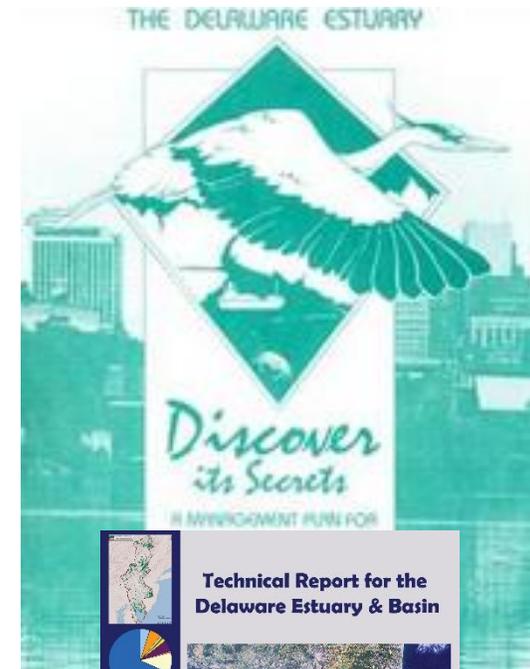




TREB Update as Part of CCMP ?

Why?

- CCMP often includes State of Estuary
- Freshest data should guide CCMP actions
- Respond to shifts in priorities (post-Sandy)
- It will need updating eventually





TREB Poll Summary

- Minimal effort needed for most sections
- Some resources and more author help is needed

Chapter	Topic	Need?	Resources?	Authors?
1	Watersheds	<i>nd</i>	<i>nd</i>	<i>nd</i>
2	Water Quantity	minimal	<i>nd</i>	more needed
3	Water Quality	minimal	<i>nd</i>	more needed
4	Sediments	minimal	significant	more needed
5	Aquatic Habitats	minimal	some	good
6	Living Resources	considerable	none	more needed
7	Climate Change	minimal	some	good
8	Restoration	major	some	more needed



TREB Poll Comments

- **TREB focuses on more traditional indicators**
- **Post-Sandy, increased attention on shorelines, natural infrastructure**
- **Perhaps TREB Update should only focus on the subset of the 50 indicators that match goals and expected CCMP actions?**



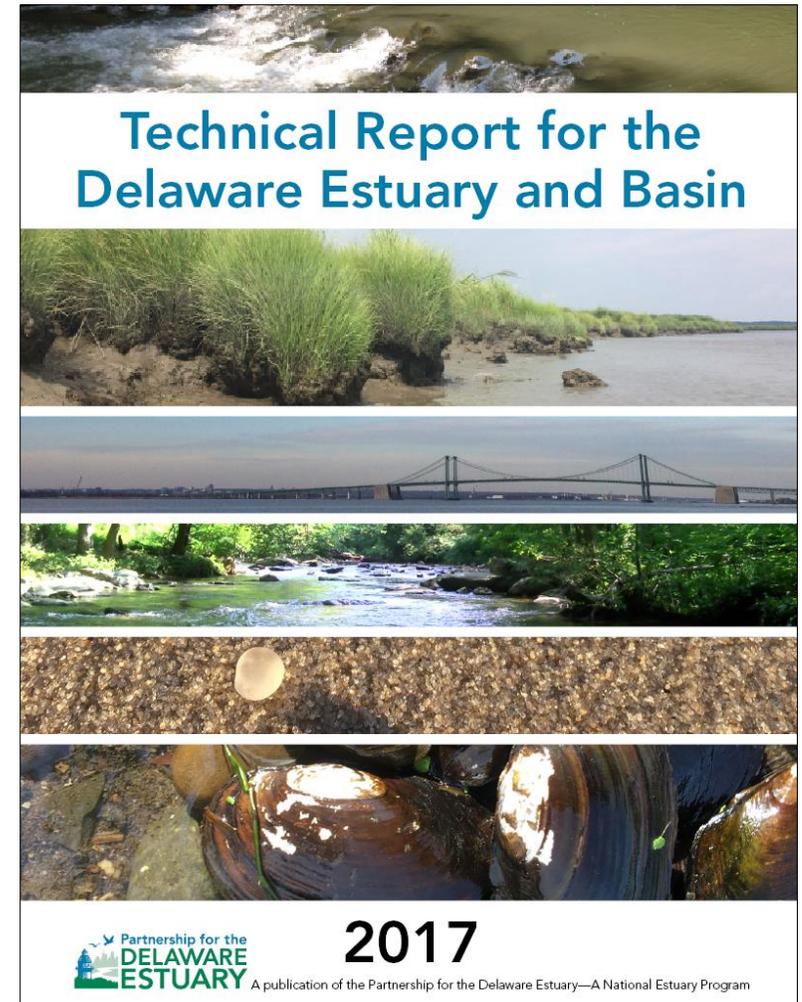
TREB – Goal Cross Walk

Chapter 1	Chapter 4	Chapter 7
Ch. 1:Populations	Ch. 4:Sediment Loading	Ch. 7:Air Temperature
Ch. 1:Land Use/Land Cover	Ch. 4:Sediment Quantity and Budget	Ch. 7:Precipitation
Ch. 1:Land Use/Land Cover Change	Ch. 4:Sediment Organic Carbon	Ch. 7:Extremes: Air Temperature & Percipitation
Ch. 1:Impervious Cover	Ch. 4:Sediment Grain Size	Ch. 7:Snow Cover
Ch. 1:State and Federal Protected Land	Ch. 4:Dredging Activity	Ch. 7:Wind Speed
Ch. 1:Public Access Points	Chapter 5	Ch. 7:Stream Flow < Minimal
Ch. 1:Natural Capital Value	Ch. 5:Intertidal-Tidal Wetland Acr < Minimal	Ch. 7:Ice Jams
Chapter 2	Ch. 5:Non-Tidal-Freshwater Wetland Acreage	Ch. 7:Sea-Level Rise
Ch. 2:Water Withdrawals-Tracking Supply and Demand	Ch. 5:Riparian Corridor Condition	Ch. 7:Additional Considerations & Indicator Needs
Ch. 2:Consumptive Use	Ch. 5:Fish Passage < Minimal	Chapter 8
Ch. 2:Per Capita Water Use	Ch. 5:Hydrological Impairment	Ch. 8:Hectares Restored Annual < Minimal
Ch. 2:Groundwater Availability	Chapter 6	Ch. 8:Balance of Restoration Types
Ch. 2:Salt Line Location and Movement	Ch. 6:Horsehoe Crabs < Minimal	Ch. 8:Restoration Need
Chapter 3	Ch. 6:Atlantic Sturgeon < Considerable	
Ch. 3:Tidal-Dissolved Oxygen <-Minimal	Ch. 6:American Shad	Goals Not Covered by TREB
Ch. 3:Tidal-Nutrients < Minimal	Ch. 6:Stripped Bass	Ammonia
Ch. 3:Tidal-Contaminants	Ch. 6:Blue Crab	Brownfields
Ch. 3:Tidal-Fish Contaminant Levels	Ch. 6:Weakfish	Vegetated Nurseries
Ch. 3:Tidal-Salinity	Ch. 6:American Eel	Marketing Plan
Ch. 3:Tidal-pH	Ch. 6:Eastern Oyster < Minimal	Monitoring Plan
Ch. 3:Tidal-Temperature	Ch. 6:Osprey	
Ch. 3:Tidal-Emerging Contaminants	Ch. 6:White Perch	
Ch. 3:Non-Tidal-Dissolved Oxygen	Ch. 6:Macroinvertebrates	
Ch. 3:Non-Tidal-Nutrients	Ch. 6:Freshwater Mussels < Minimal	
Ch. 3:Non-Tidal-Contaminatns		
Ch. 3:Non-Tidal-Fish Contaminant Levels		
Ch. 3:Non-Tidal-pH		
Ch. 3:Non-Tidal-Temperature		



TREB Plan

- Haven't received all updates yet, so still compiling chapters into the new format
- Some chapters are ready for review
 - Please sign up for 1st and 2nd round reviewing





TREB – TOC

1. Watersheds & Landscapes

1.1 Population

1.2 Current Land Cover

1.3 Land Cover Change

1.4 Impervious Cover

1.5 Public Open Space

1.6 Public Access Points

1.7 Natural Capital Value

2. Water Quantity

3. Water Quality

4. Sediments – no change, but adding references to the **Sediment Management Plan**

5. Aquatic Habitats

5.1 Subtidal Habitats

5.2 Intertidal Wetland Acreage - **DONE**

5.3 Non-tidal Wetlands

5.3.1 *Freshwater Wetland Acreage*

5.3.2 Riparian Corridor Condition

5.3.3 **Fish Passage**

5.3.4 Hydrological Impairment

6. Living Resources

7. Climate Change

8. *Restoration*

1. Front Material

1. Abstract

2. Executive Summary

3. Introduction

4. Other elements for orientation

5. TOC

2. Back Materials

1. Appendix of abbreviations and acronyms

2. Chapter specific details

1. Suggested citation

2. Contributors/acknowledgments

3. Publicly funded datasets used



TREB – Contracts

- Penn State-Ray Najjar
 - Chapter 7: Climate Change – **DONE!**
- University of Delaware-Jerry Kauffman
 - Chapter 1: Prioritizing public access points
 - land use/land cover, open space, populations- **DONE!**
 - Chapter 5: Fish Passage
- Delaware River Basin Commission
 - Chapter 2: Prioritizing water withdrawals
 - Chapter 3: Dissolved oxygen, nutrients, contaminants, fish contaminants, and emerging contaminants – **RECEIVED**
- Des Kahn
 - Chapter 6
 - Horseshoe crabs –**RECEIVED**
 - Atlantic Sturgeon--**RECIEVED**
 - Blue Crabs—**RECEIVED**
 - Weakfish– **RECEIVED**
 - FW Mussels
 - Striped Bass– **RECEIVED**
 - Osprey– **RECEIVED**
 - White Perch-- **RECIEVED**
 - American Eel
 - Oyster
 - Shad
 - Macroinverts
- PDE
 - Chapter 5: Wetlands– **DONE!**



TREB – Note to Authors

- Please make sure you've sent the highest quality graphics
 - Embedding graphics in Word results in compressed graphics– low quality, not good for reprinting
 - This is ok so that we can see where you want graphics ordered through the text
 - Send photos directly
 - Send excel files with graphs embedded
 - I don't need the raw data, just create new excel with a graph in each sheet
 - Graphics created in stats programs: I can accept PDFs or JPEGs (actually, PDFs preferable)
 - **ANY POOR QUALITY GRAPHIC WILL HAVE A RED BORDER in the draft versions**
 - This indicates that the graphic needs to be replaced with something of higher quality! Send ASAP if you see this notation!
- Any potential errors or places in need of additional author review will appear in red font.
 - Please check your chapters for these notations!



TREB – Note to Reviewers

- First round reviews:
 - “Peer review”-- content
 - Check for data discrepancies, numerical errors, clarity
 - Spelling errors, syntax, etc...
 - Ensure figures/tables are referred to correctly in text and references are listed where needed
- Second round reviews -- readability
 - Ensure figures and tables have correct numbering (and matches in text references)
 - Double check spelling, syntax, etc...
 - Check formatting consistency (nothing ‘too tight’, colors legible, fonts consistent, etc...)
- **WHOLE REPORT READ THROUGH**
 - Focus on front and back material– completeness
 - Check page numbers
 - Ensure consistency between chapters



TREB – Timeline

- First round reviews due 5 June 2017
 - Non-authors, peer review of information
- Second round reviews due 19 June 2017
 - Second set of eyes for formats, cross-references
- Final whole report review by end of 30 June 2017
- Goal is to have completed TREB by 7 July 2017

****PLEASE SIGN UP!****

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P.S. I'm just the messenger! I am leading organization, but ALL content is a group effort!