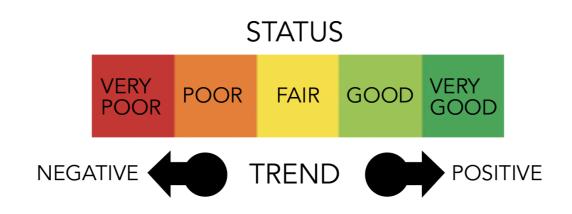


ORGANIZATION OF THE REPORT

40 environmental indicators, grouped into six chapters

- Watershed Condition
- Managing Nutrient Pollution
- Water Quality
- Living Resources
- Human Health Risks
- Climate



New this time!

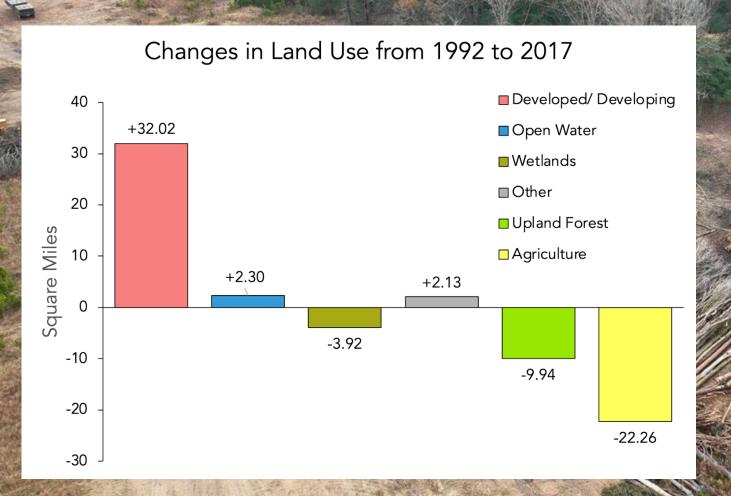








Land Use Change

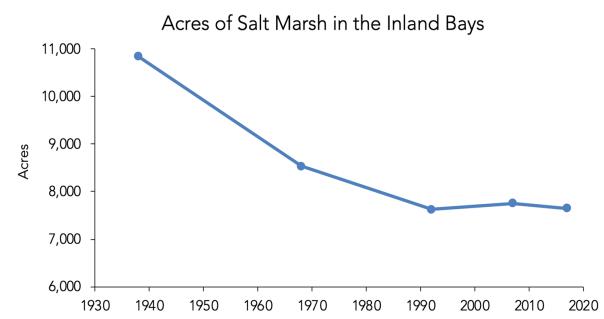


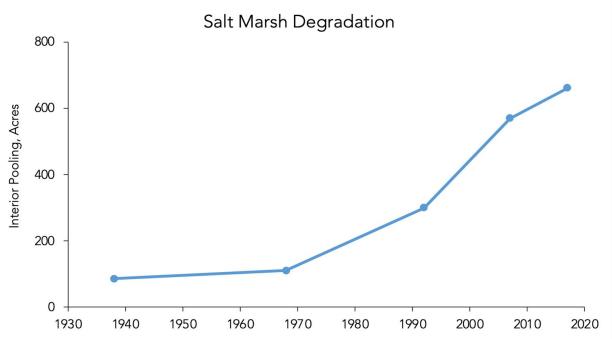
- 18% loss in forest
- 6% loss in wetlands
- 19% loss in agriculture
- 78% increase in development



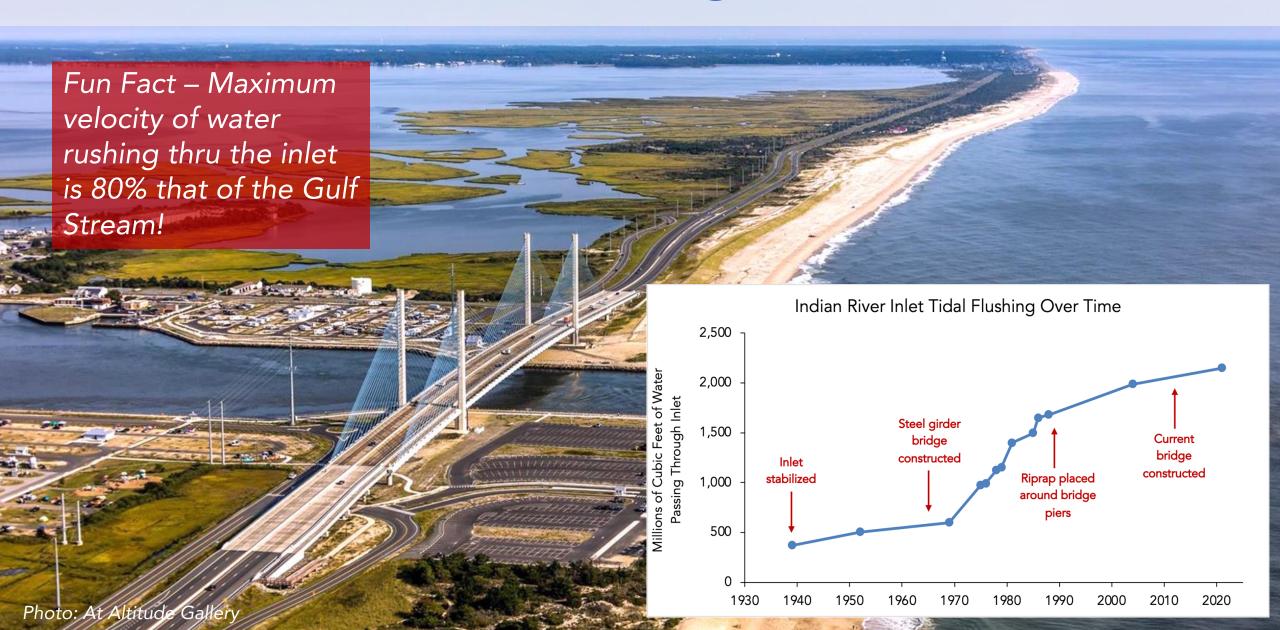
Salt Marsh Acreage and Condition



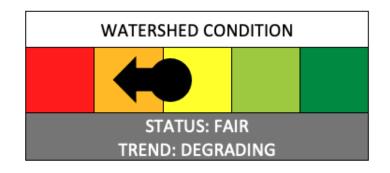




Indian River Inlet Flushing



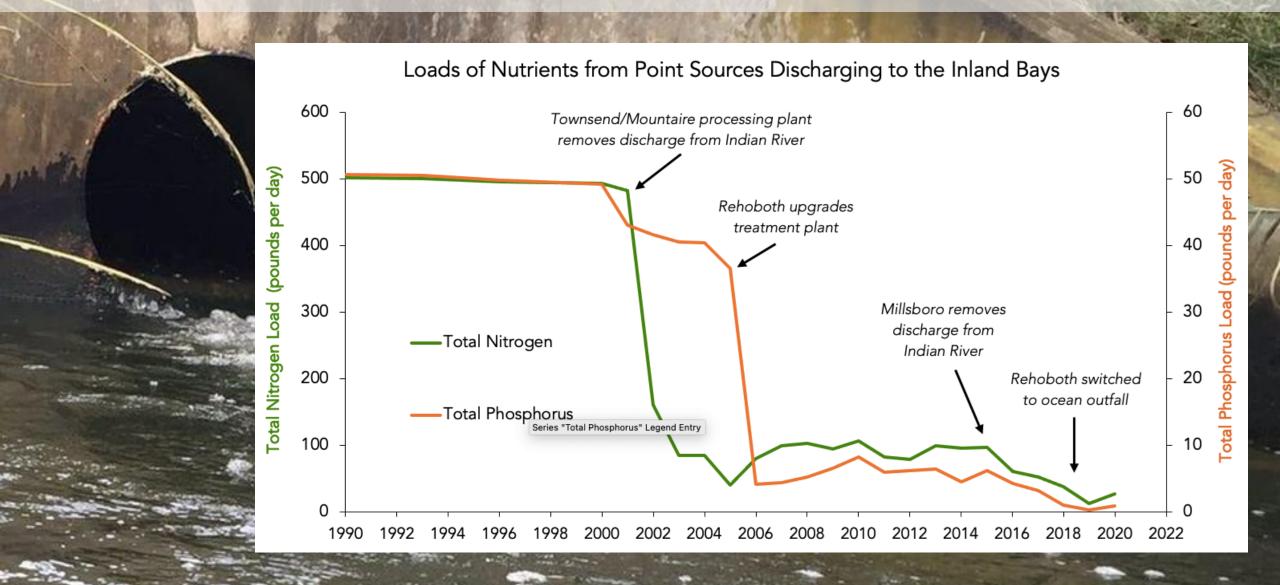
WATERSHED CONDITION Overall Status and Trends



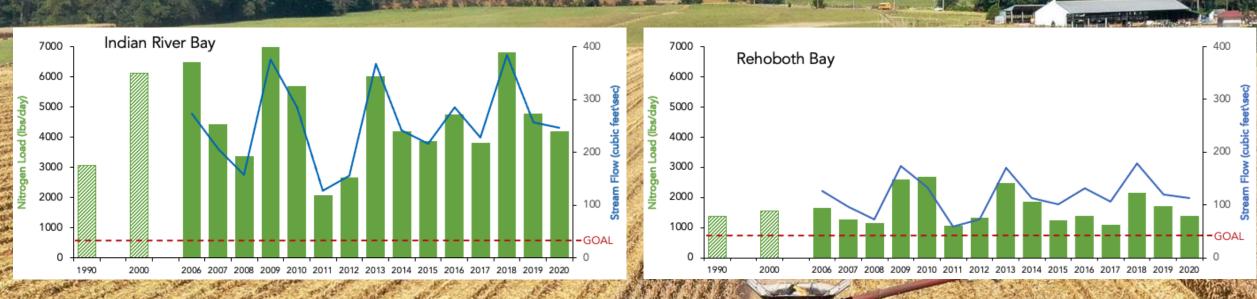
Indicator	Status	Trend (last 5 yrs)
Human Population Growth	Fair	Degrading
Land Use Change	Fair	Degrading
Impervious Surface Coverage	Fair	No Trend or Slightly Degrading
Salt Marsh Acreage and Condition	Poor to Fair	Degrading
Natural Habitat Protection and Restoration	Fair to Good	Improving
Indian River Tidal Flushing	Fair	No Trend



Nutrient Loads - Point Sources

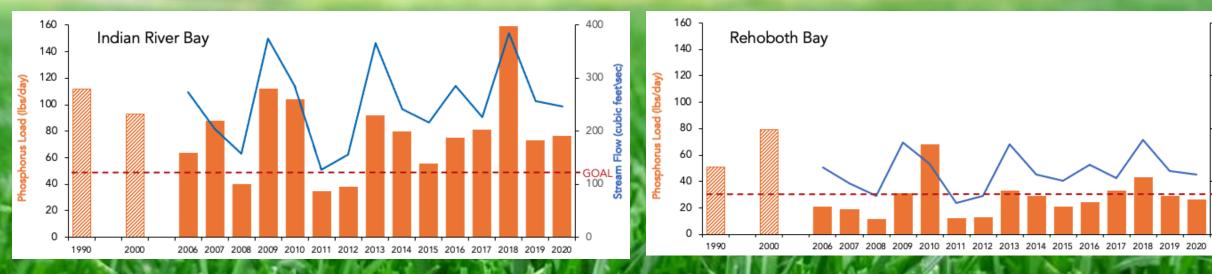


Nitrogen Loads – Nonpoint Sources

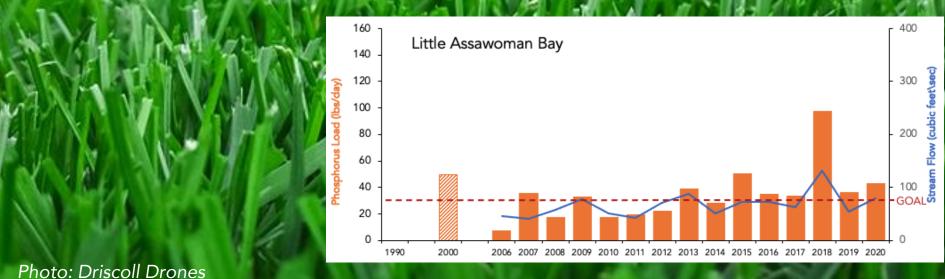




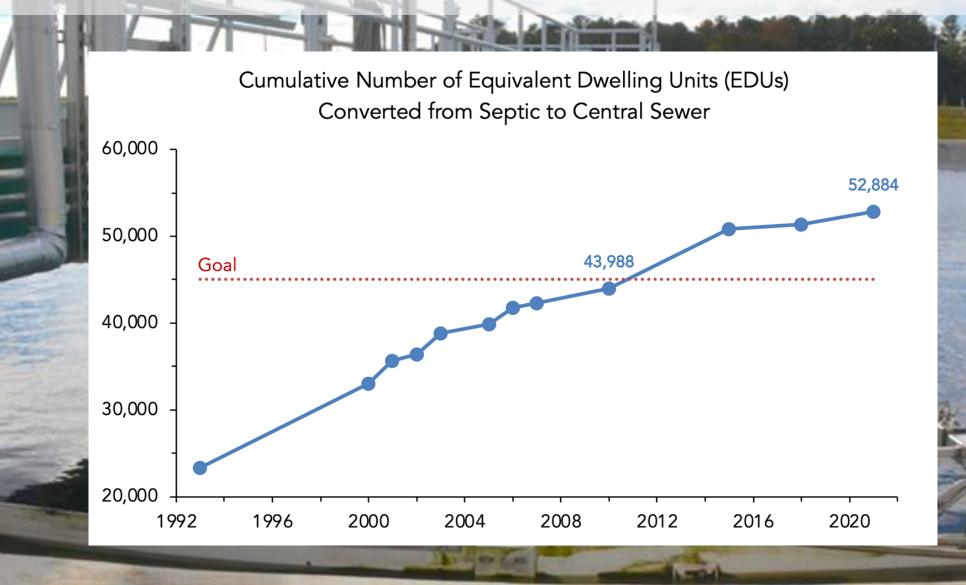
Phosphorus Loads – Nonpoint Sources



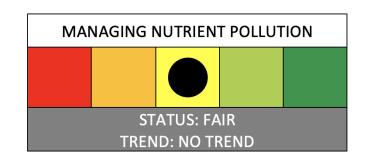
400



Septic System Conversion to Central Sewer



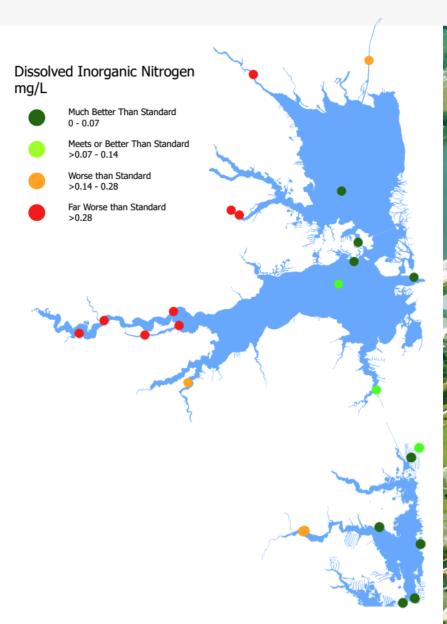
NUTRIENT POLLUTION Overall Status and Trends

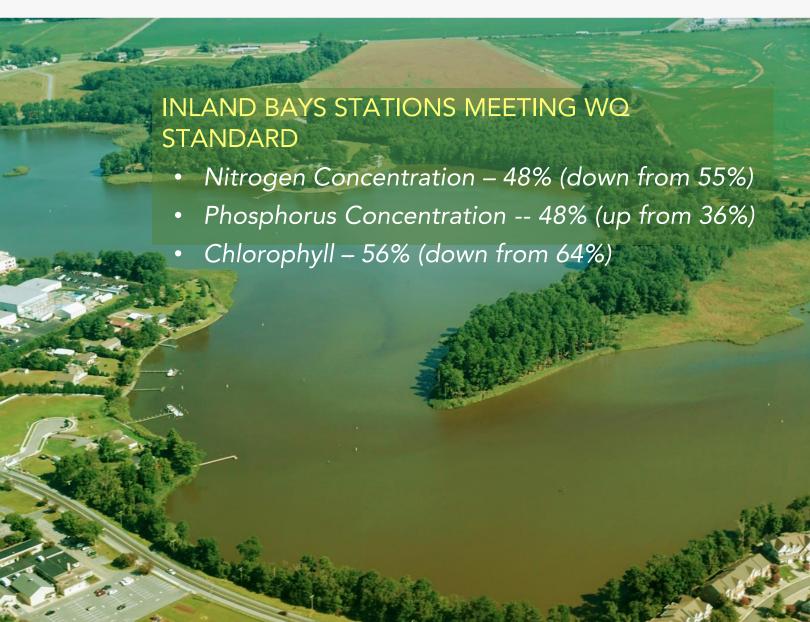


Indicator	Status	Trend (last 5 yrs)
Inputs from Point Sources	Good/Very Good	Improving
Inputs from the Atmosphere (nitrogen)	Good	Improving
Inputs from the Atmosphere (phosphorus	No Data	Degrading
Inputs from Nonpoint Sources (nitrogen)	Very Poor	No Trend
Inputs from Nonpoint Sources (phosphorus)	Fair	Degrading
Agricultural Nutrient Practices	Fair	Improving
Septic System Conversion to Central Sewer	Very Good	Improving
Stormwater Retrofits	Poor	Slightly Improving



Concentrations of Nitrogen





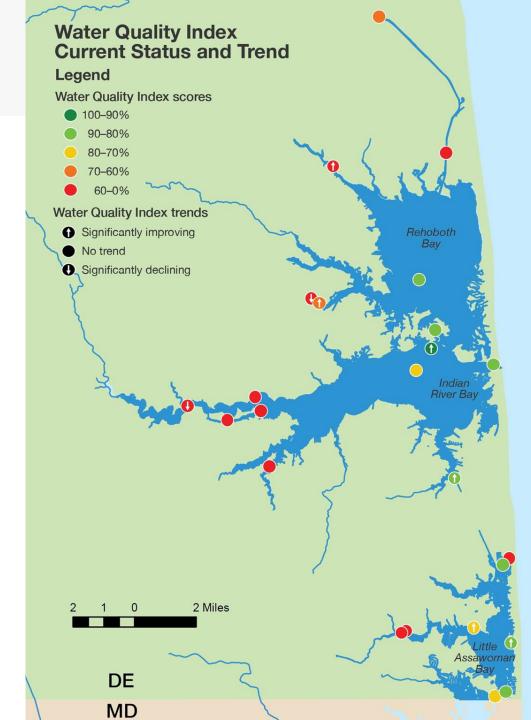
Water Quality Index

New water quality score this year

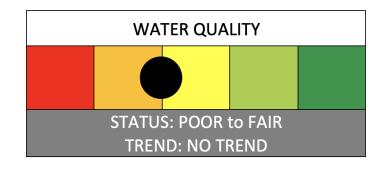
- Averages N/P concentrations, chlorophyl, and water clarity
- Public-friendly

Overall:

- Upper IR and tributaries poor
- Open bay areas good
- LAB continuing to improve



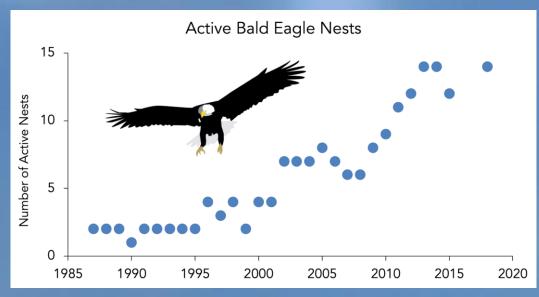
WATER QUALITY Overall Status and Trends

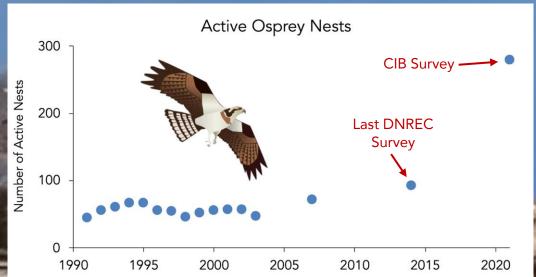


Indicator	Status	Trend (last 5 yrs)
Nitrogen Concentration	Poor to Fair	No Trend
Phosphorus Concentration	Poor to Fair	No Trend
Algae Concentration	Fair	No Trend
Water Clarity	Poor	No Trend
Dissolved Oxygen	Fair	No Trend
Seaweed Abundance	Good	No Trend



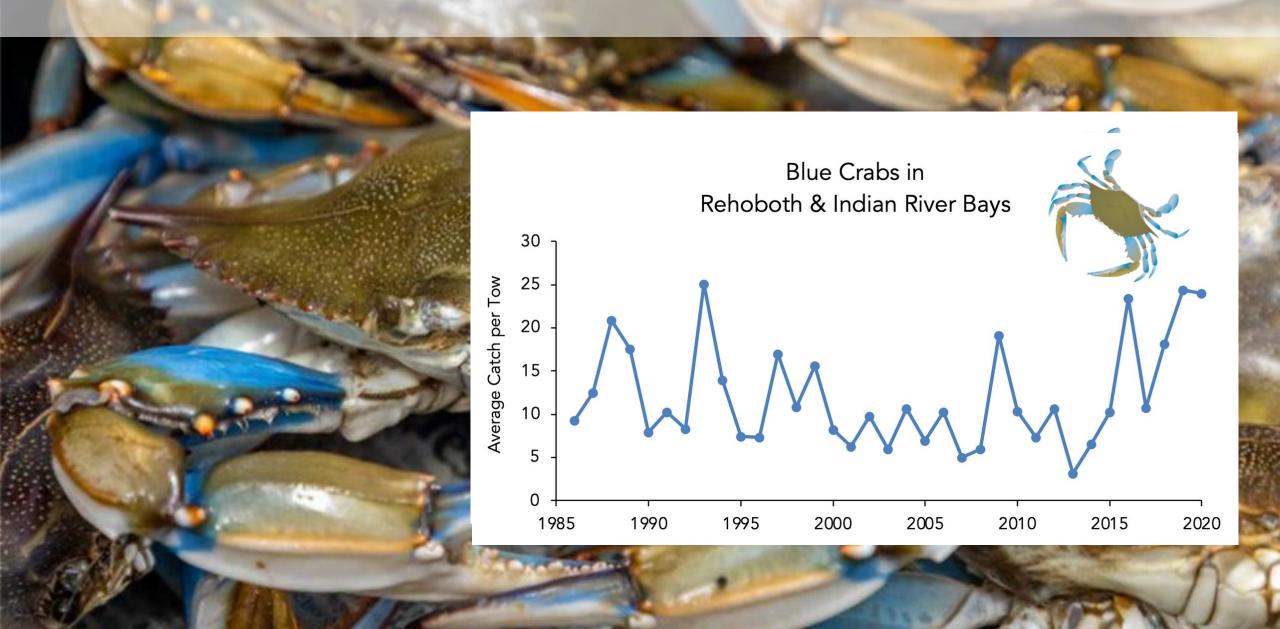
Eagle and Osprey Nesting



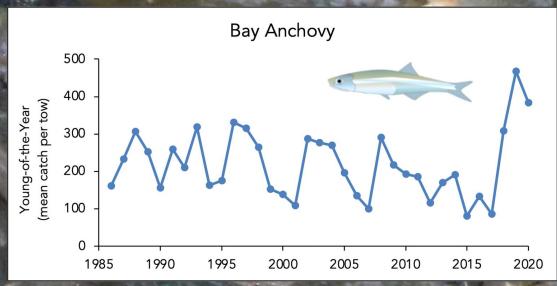


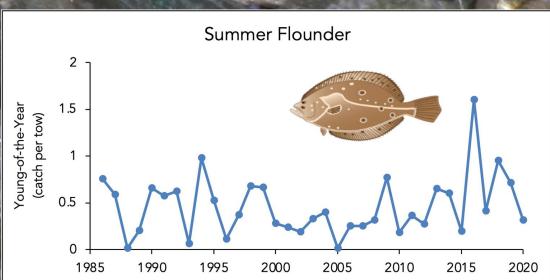


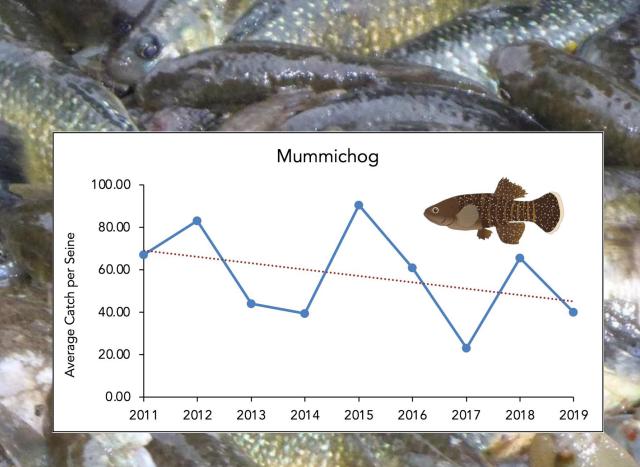
Blue Crab Abundance



Fish Abundance











Current Status of Baygrasses in the Inland Bays

- Horned Pondweed -- 9.52 acres (Love Creek)
- Widgeon Grass 1.17 acres (LAB, S. Bethany canals)
- Eelgrass 0 acres

Nearby estuaries support thousands of acres.

LIVING RESOURCES Overall Status and Trends

Indicator	Status	(ST) Trend
Baygrasses	Very Poor	Very Slightly Improving
Eagle/Osprey Nesting	Very Good	Improving
Hard Clam Landings	Poor	No Trend
Shellfish Farming	Fair	Improving
Winter Waterfowl Counts	Fair	No Trend
Blue Crab Abundance	Fair	Improving
Fish Abundance	Fair to Good	Improving
Shorezone Fish	Fair	Degrading
Recreational Fishing	Poor	No Trend
HSC Spawning	Fair	No trend
No. of Fish Kills	Poor	Degrading





Fecal Bacteria Pollution

- Many tributaries routinely fail to meet the bacteria standard for primary contact (e.g. swimming).
- However, most areas of the bays do routinely meet the standard for other uses.
- Not all of the sources are human, or of equal risk.



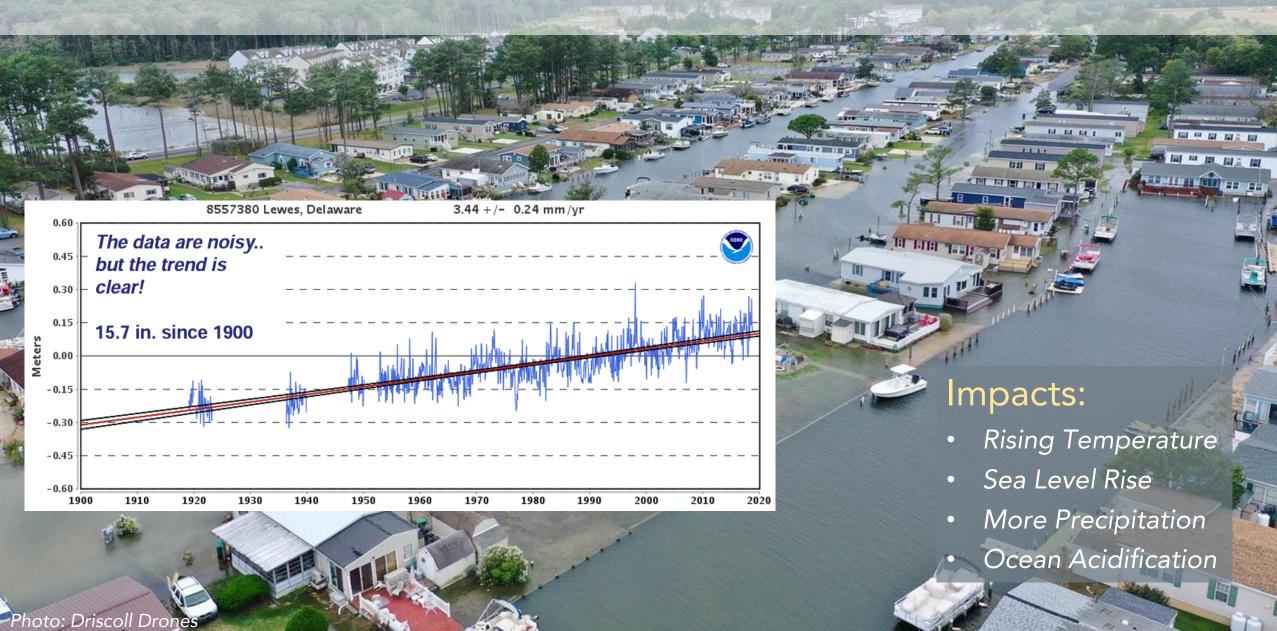
HUMAN HEALTH RISKS Overall Status and Trends



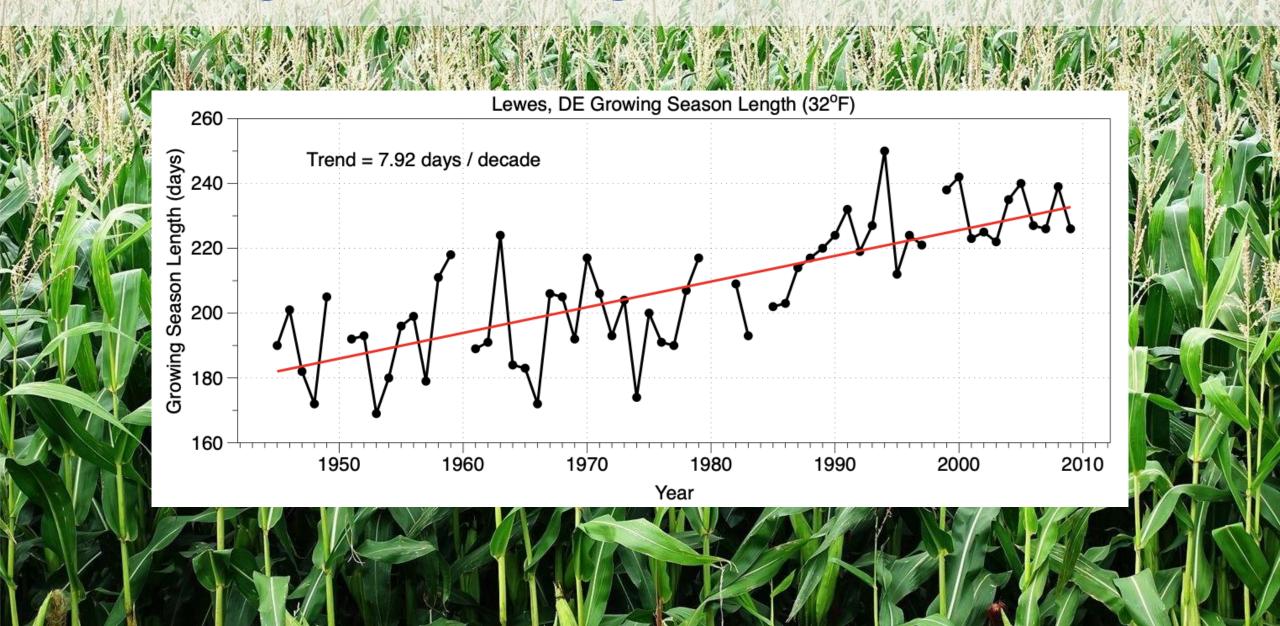
Indicator	Status	Trend (last 5 yrs)
Fecal Bacteria Pollution	Fair	Slightly Degrading
Approved Shellfish Waters	Fair	No Trend
Fish Consumption Advisories	Fair	No Trend



Sea Level Rise



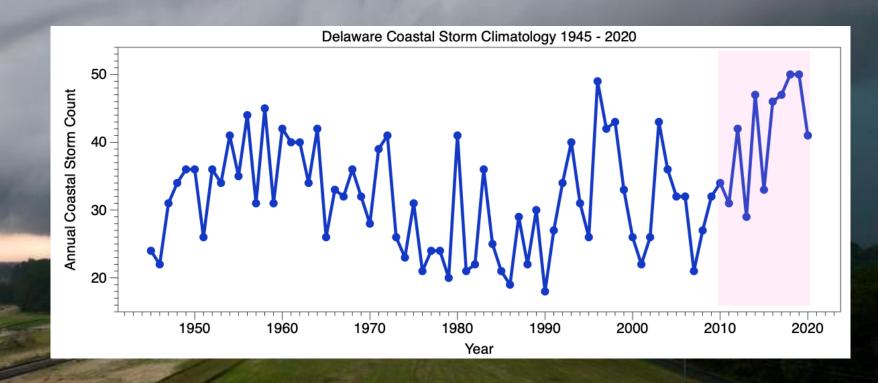
Growing Season Length



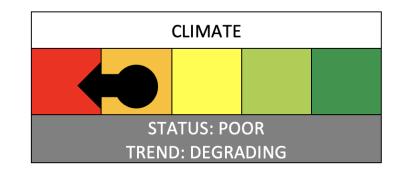
Coastal Storm Frequency

Larger numbers of storms during the last decade.

Greater frequency of intense storms.



CLIMATE Overall Status and Trends



Indicator	Status	Trend (last 5 yrs)
Atmospheric Carbon Dioxide	Poor	Degrading
Air Temperature	Poor	Degrading
Sea Level Rise	Poor	Degrading
Growing Season Length	Fair to Poor	Degrading
Annual Precipitation	Fair	Degrading
Coastal Storms	Fair to Poor	To Be Determined
Ocean Acidification	Fair	Degrading

The State of the Inland Bays 2022

Progress in some areas:

- Point sources gone
- Water quality in LAB
- Nutrient management practices (septics, agric. practices)
- Some of our living resources

Continuing challenges in others:

- Nonpoint source pollution
- Land use change
- Salt marsh degradation & buffer loss
- Baygrasses
- Climate change

