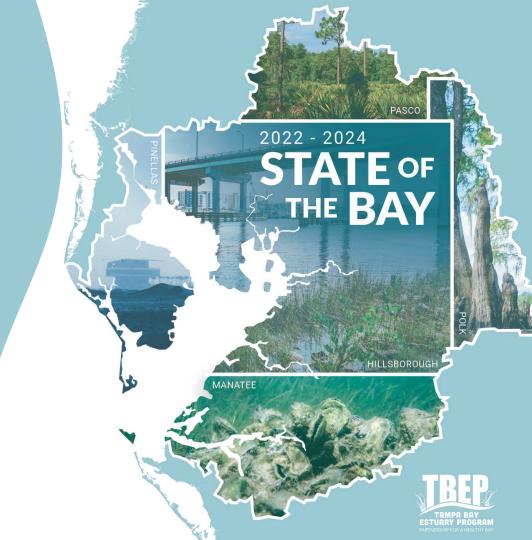
Estuary
Program
2025 Update

Ed Sherwood Executive Director

October 17, 2025
Joint Board of County Commissioners'
Regional Roundtable
Pinellas, Hillsborough & Pasco Counties



Tampa Bay Watershed



Size

Tampa Bay Proper: 400 square miles

Tampa Bay Watershed: 2,200 square miles



Depth

Average Depth: 11 Feet

Maximum Depth: 43 Feet (100'+ by Egmont)



Major Tributaries

Hillsborough, Palm, Alafia, Little Manatee, Manatee & Braden Rivers



Population

> 3.1 million in the watershed alone

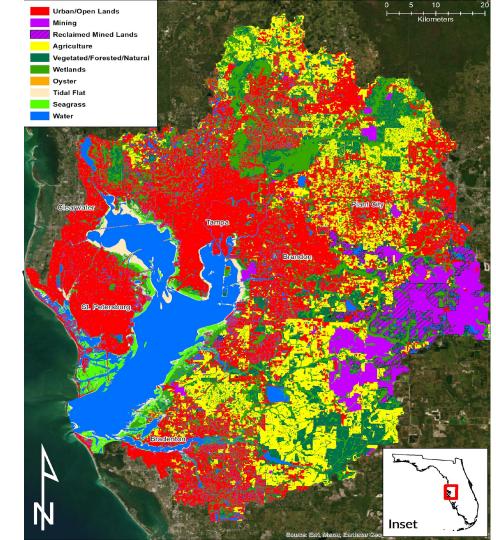


Land Use

32% Undeveloped 42% U

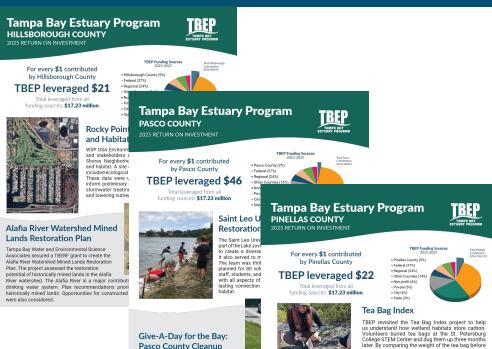
42% Urban/Suburban

17% Agriculture 9% Mining



Quick Facts

- Established in 1991
- 1 of 28 National Estuary Programs (4 Total in Florida)
- Interlocal Agreement establishes a federal-local cost-share partnership
- Additional grant funds & programs support Comprehensive **Conservation & Management Plan** implementation
- Annual Budget ≅ \$3 \$4 Million
- 8 Full-time and 1 Part-time Staff



2025 Return on Investment: \$21-\$46 for every \$1

To celebrate the start of National Estuaries

Week in 2024, the Tampa Bay Estuary Program

to host a Give-A-Day for the Bay cleanup in Pasco Cour 420 pounds of trash along the road of a trash hotspot

partnered with Keep Pasco County Beautiful

and after the burial, we can estimate the amount of tea that decomposed versus being stored. Scientists have found that tea is a good indicator of what will happen with normal plant material in the same soil



Philippe Park Living Shoreline Pinellas County and Invincible Summe

Enterprises worked together for a unique public-private partnership in Philippe Park. The project allows the community to le benefits of a living shoreline project while protecting their local park. Support came from the Tampa Bay Environmental Restoration Fund and Bay Mini-Grant program. Project managers brought more than 50 first-time environmental volunteers to the park. Over multiple events, volunteers created and installed oyster habitat along 100' of shoreline. A report was also developed to evaluate materials used in oyster restoration projects.



Clean Waters & Sediments



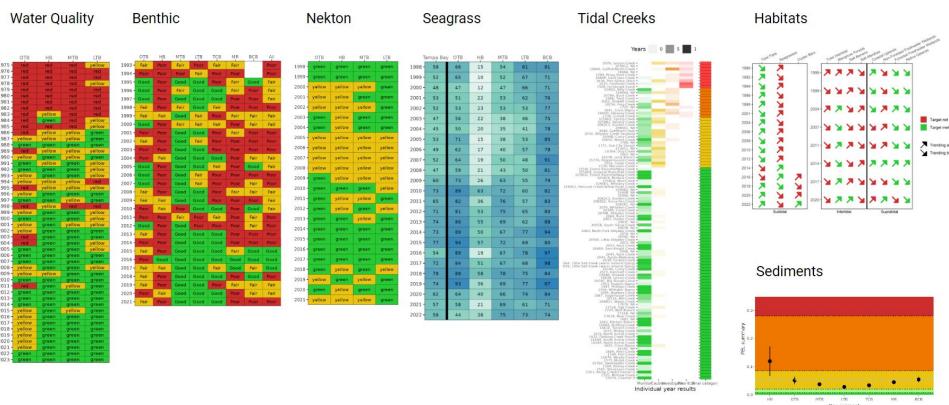
Thriving Habitats & Abundant Wildlife



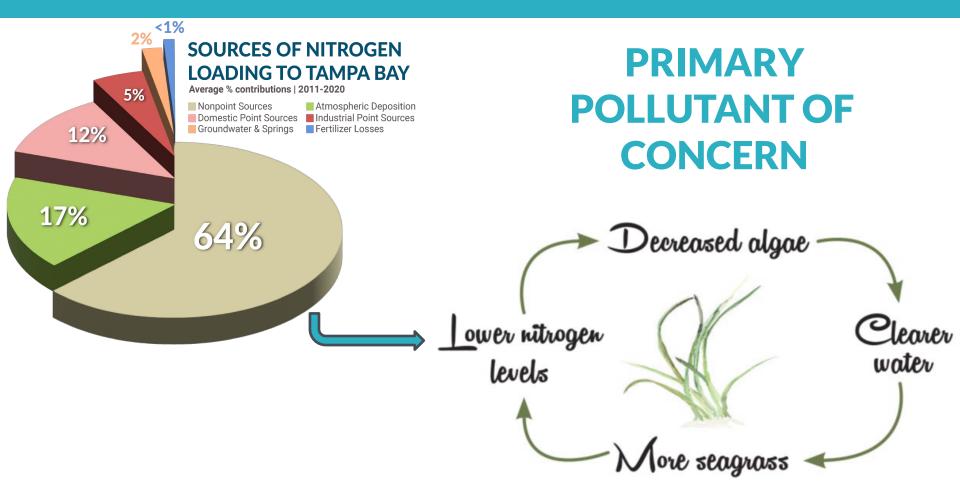
Informed, Engaged, & Responsible Community

ccmp.tbep.org



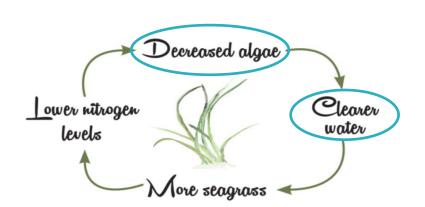


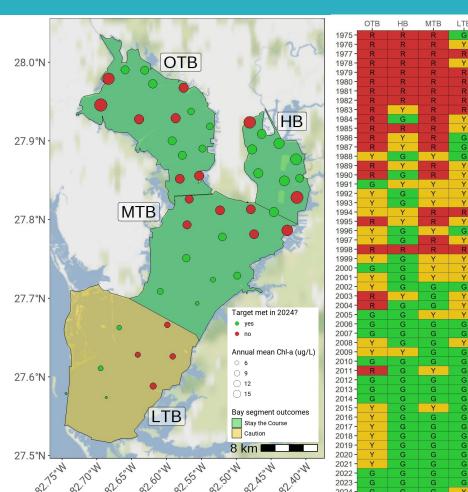
Clean Waters & Sediments



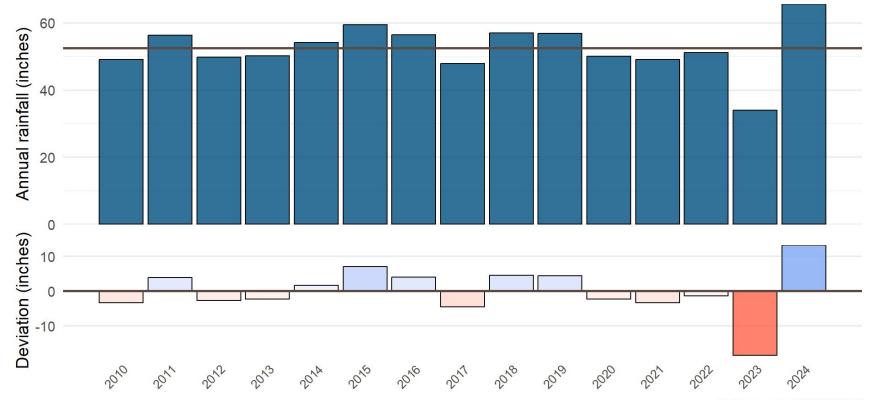
WATER QUALITY

- Results show attainment of chlorophyll and light attenuation management targets
- All segments as "Stay the Course", except Lower Tampa Bay = "Caution"
- More info at: shiny.tbep.org/wq-dash



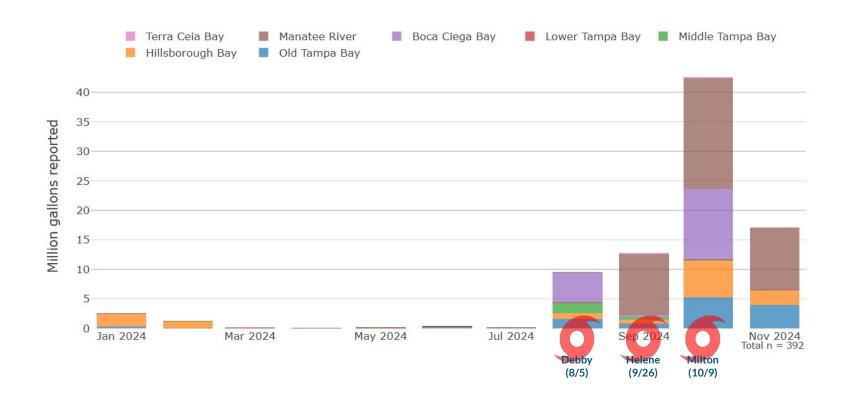


TAMPA BAY ANNUAL RAINFALL

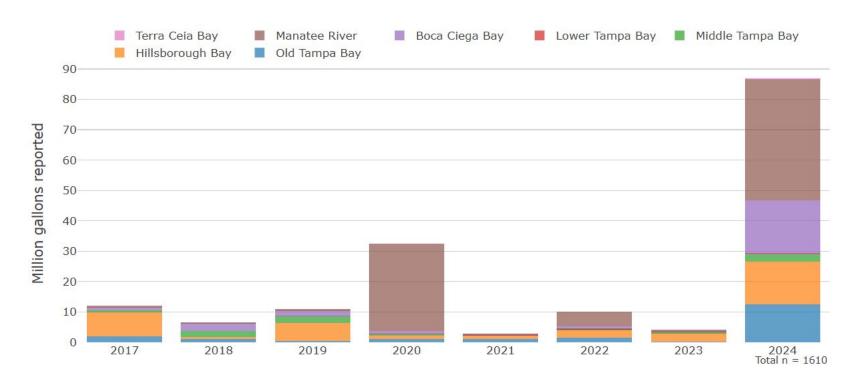


Data source: SWFWMD

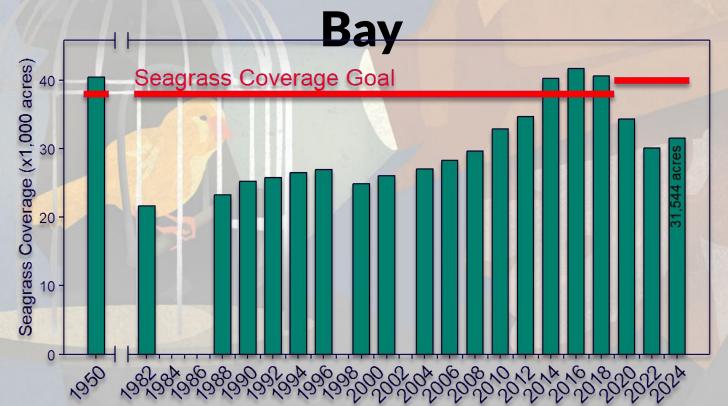
SANITARY SEWER OVERFLOWS (by month)



SANITARY SEWER OVERFLOWS (2017-2024)



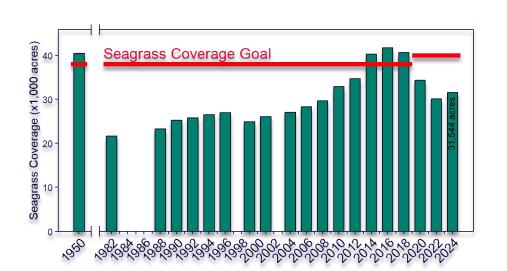
Underwater Seagrass Coverage: Primary Indicator of a Healthy Tampa

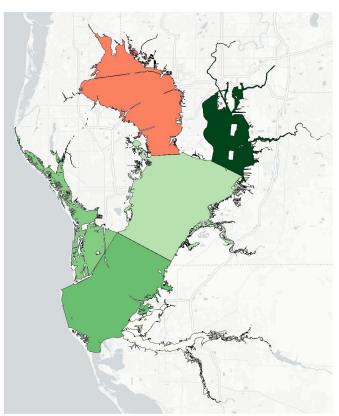


SEAGRASS MAPPING RESULTS



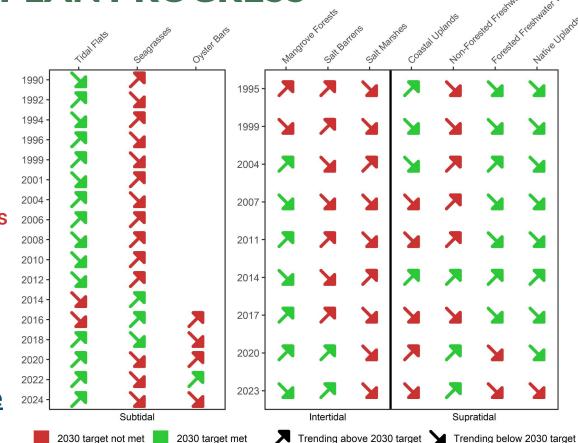
- Baywide, seagrasses <u>increased</u> by 5% (1,407 acres)
- Majority of gains observed in Hillsborough Bay
- Lower Tampa Bay at record-high
- Old Tampa Bay lost 326 acres





HABITAT MASTER PLAN PROGRESS

- Falling behind on:
 - Seagrass
 - Oyster
 - Salt Marsh
 - Coastal & Native Uplands
 - Forested Freshwater Wetlands
- Recent trends showing effects of continuing coastal development & climate change
- More info & data at: <u>shiny.tbep.org/landuse-change</u>



When You Build It, They Will Come ...

Investing in nature-based solutions also bolsters important fish nurseries in the Bay

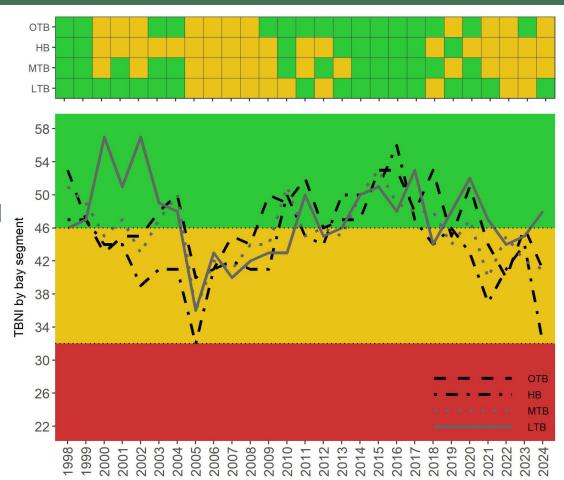






NEKTON INDEX

- Reports on the health of fish, shrimp and crabs
- Responds to water quality and habitat degradation
- 2024 results show all bay segments as caution, except Lower Tampa Bay
- More data & info at: <u>shiny.tbep.org/nekton-dash</u>



In Summary: **Protect & Restore or** Lose a Whole Lot More

- Seagrasses: A key indicator of Tampa Bay's estuarine health
- Other Critical Coastal Habitats: Falling behind in the face of a rapidly developing coast that is already experiencing climate change impacts
- Why Should We Care? A healthy Tampa Bay brings substantial regional economic benefits & environmental services that maintain our waters, wildlife & way of life

TAMPA BAY **SUPPORTS**

\$32.1 BILLION IN TOTAL ANNUAL OUTPUT

207,068 **EMPLOYEES 1 IN 10** JOBS

VALUE ADDED TO EACH NEARBY HOME

ADDED REGIONAL PROPERTY VALUE

\$52.3

IN ANNUAL CARBON SEQUESTRATION MILLION

IN ANNUAL DENITRIFICATION SERVICES

\$714.5 \$924.4 MILLION

> PROTECTION SERVICES

2022\$ TBRPC Economic Footprint of Tampa Bay Update

2026 Interlocal Agreement Update

- Amended & Restated in <u>2015</u> & <u>2021</u>
- 5-Year Sundown Review
- Identifies local funding contributions based on watershed population
- Current Funding Partners:
 - •US EPA (50%)
 - SWFWMD
 - · Hillsborough Co.
 - · Pasco Co.
 - Pinellas Co.
 - Manatee Co.
 - City of Tampa
 - City of St. Petersburg
 - City of Clearwater



TAMPA BAY NATIONAL ESTUARY PROGRAM INTERLOCAL AGREEMENT



THIS TAMPA BAY NATIONAL ESTUARY PROGRAM INTERLOCAL AGREEMENT (the "Agreement") is executed and made effective the 27th day of February, 1998, by and between the following governmental entities: 1. CITY OF CLEARWATER, a Florida municipal corporation; 2. CITY OF ST. PETERSBURG, a Florida municipal corporation; 3. CITY OF TAMPA, a Florida municipal corporation; 4. FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, a Florida state agency; 5. FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION'S FLORIDA MARINE RESEARCH INSTITUTE, an institute: 6. FLORIDA GAME AND FRESH WATER FISH COMMISSION, a Florida state agency; 7. HILLSBOROUGH COUNTY, a Florida political 8. HILLSBOROUGH COUNTY ENVIRONMENTAL PROTECTION COMMISSION, a Hillsborough County agency: 9. MANATEE COUNTY, a Florida political subdivision; 10. PINELLAS COUNTY, a Florida political subdivision; 11. SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT, a Florida water management district; 12. the TAMPA PORT AUTHORITY, a Florida port authority; and 13. the TAMPA BAY REGIONAL PLANNING COUNCIL, a Florida regional planning council, (collectively the "Parties" and each singularly a "Party"), and the following recitation of facts are provided in support of this Agreement:

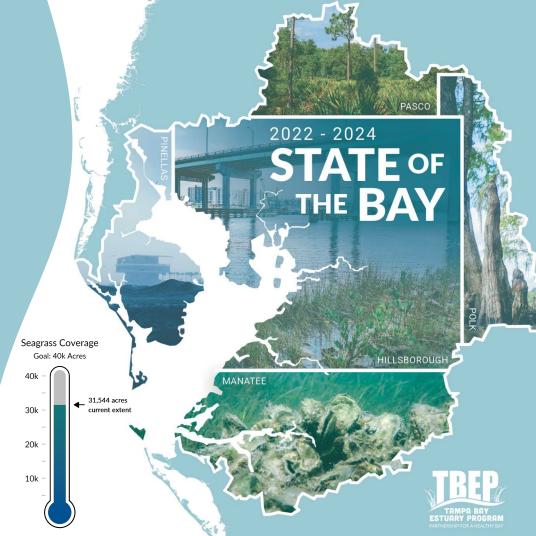
- (A) The Tampa Bay National Estuary Program was established in 1991 to assist the Tampa Bay area in developing a comprehensive plan to restore and protect Tampa Bay. The Tampa Bay National Estuary Program is governed by a Policy Committee and advised by a Management Committee. The Tampa Bay National Estuary Program is a part of a national network of twenty-eight (28) estuary programs established under the Federal Clean Water Act and administered nationally by the United States Environmental Protection Agency.
- (B) Local government and regulatory agency participants in the Tampa Bay National Estuary Program consisting of the Parties described in the Preamble above, as well as the United States Environmental Protection Agency and the United States Army Corps of Engineers, have developed and unanimously adopted a Comprehensive Conservation & Management Plan for Tampa Bay, known as Charting the Course, dated December, 1996, (the "CCMP"), and are committed to its successful implementation. Charting the Course seeks to ensure that Tampa Bay remains a vibrant part of the region's environmental and economic landscape by preserving and enhancing its roles as a recreational resource, international seaport and home for fish and wildlife.
- (C) The CCMP presents goals for the improvement of Water & Sediment Quality, Bay Habitats, Fish & Wildlife, Spill Prevention and Response and Dredging and Dredged Material Management, which will be reexamined at least once every five (5) years and updated as appropriate. To achieve the CCMP goals, this Agreement emphasizes regional cooperation and regulatory flexibility that allows the Parties to select cost-effective and environmentally beneficial bay improvement options for their communities, so long as the goals of the CCMP are met.

1998: Original Interlocal Agreement

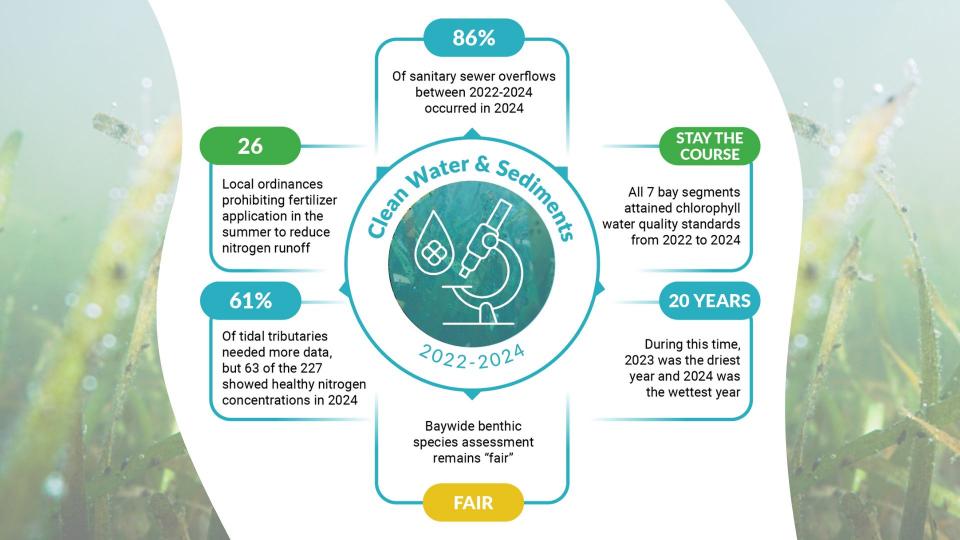
Questions?

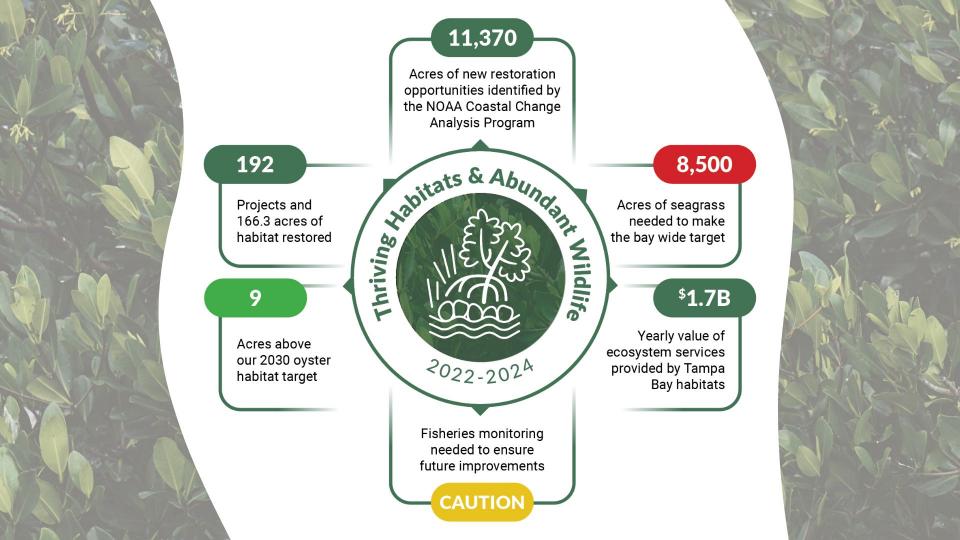


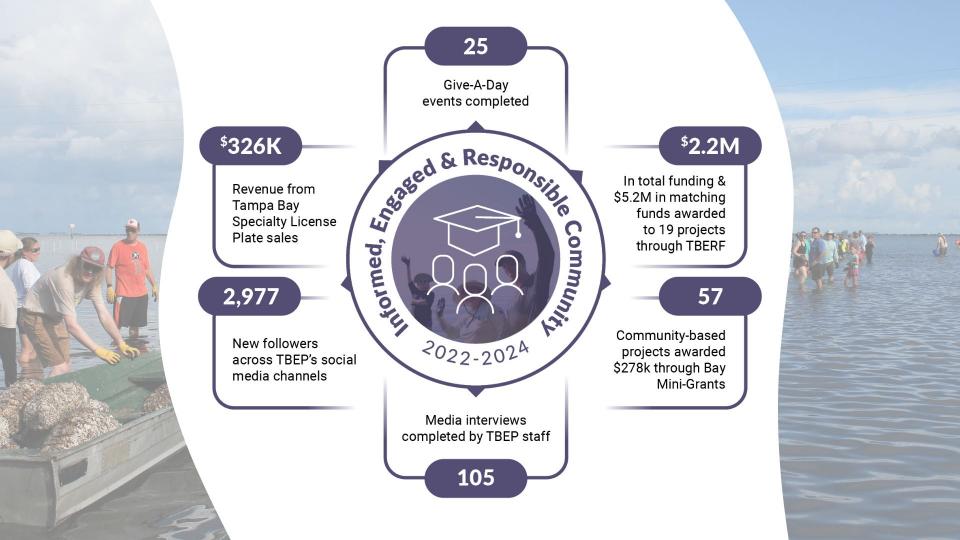
Ed Sherwood esherwood@tbep.org



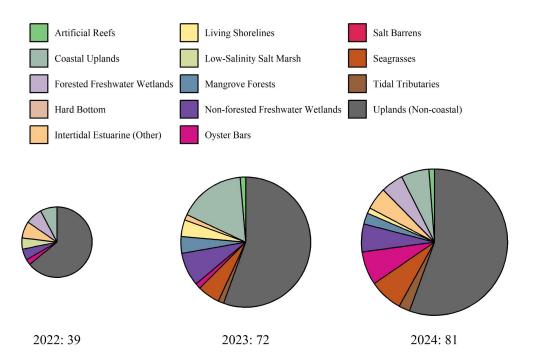
BACKUP & ADDITIONAL SLIDES

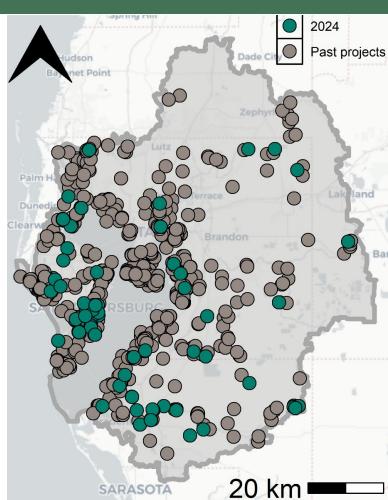




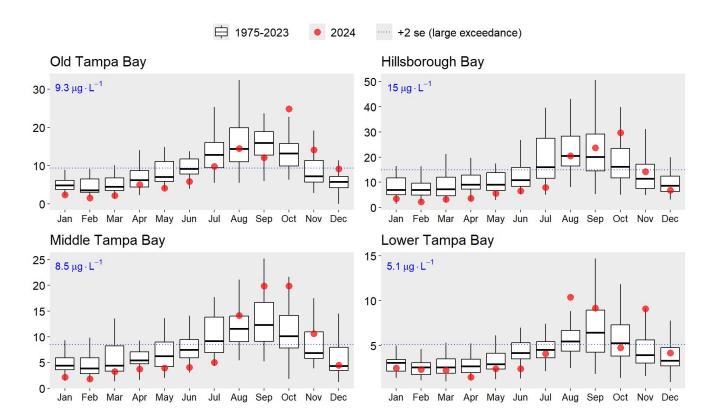


RESTORATION PROJECTS





SEASONAL CHLOROPHYLL TRENDS



RIVER FLOWS

- Peak flows for major rivers totaled ~36,290 cfs
- 250x greater than estimated volumes from wastewater discharges

