

CHESAPEAKE AND ATLANTIC COASTAL BAYS TRUST FUND 2018 ANNUAL REPORT

A Catalytic Tool in Bay Restoration Closing the Technical Assistance Gap

It has been well documented that there is a technical assistance gap for private landowners and local governments. To address this, the Trust Fund provides critical funding to support staff within the local conservation districts as well as supports restoration specialists and permit expeditors within state agencies to accelerate the pace of implementation. In addition, the Trust Fund has used creative partnerships with the private sector and nonprofit community organizations to provide engineering, permit preparation and implementation.



Photo credit: Betsy Love, St. Luke's Episcopal Church

Accelerating Restoration through an Aggregator - In 2013, the Trust Fund entered into a public private partnership with the Harford Soil Conservation District and Ecotone, Inc. in the implementation of 13 separate projects comprised of stream, wetland and riparian forest restoration on agricultural and rural privately-owned properties in Harford County. Ecotone played the role of a project aggregator not only identifying these 13 separate projects but providing the expertise needed in the design and implementation. This public-private relationship has been integral to achieving project successes while improving agricultural conservation and stewardship on private lands in Harford County. This partnership has contributed to the restoration of 32 acres of wetland, 14 acres of riparian buffer, and 32,335 linear feet of stream restoration. The Trust Fund and Ecotone have since expanded the partnership into Baltimore and Frederick counties.

Relationship Building with Landowners - In 2012, the Trust Fund entered into a partnership with The Nature Conservancy to restore the Pocomoke floodplain, one of the largest ecological restoration efforts in Maryland's history. Through this partnership, the state was able to leverage The Nature Conservancy expertise and staff to provide the relationship building with landowners, engineering, design, construction and monitoring. The partnership has resulted in 2,193 acres of wetlands and leveraging an additional \$2,382,000 of private and federal dollars towards this effort.

Engaging Diverse Communities in Bay Restoration - In 2017, the Trust Fund continued a partnership with Blue Water Baltimore in its effort to help Baltimore City meet local and state water quality goals by assisting MedStar Harbor Hospital to design and install a suite of stormwater best management practices on its highly-impervious, waterfront campus. The project engages a new landowner and the surrounding community in constructing 12 practices that will better capture and treat water as well as provide enhanced green space for patients, visitors and community members.

Reducing the Risk of the State's Investment - In 2017, the Trust Fund entered into a public-private partnership with Cecil Land Trust, Cecil County and Ecosystem Investment Partners in the restoration of Principio Creek in Cecil County. While Cecil Land Trust is providing the critical relationship building with the private landowners, Ecosystem Investment Partners is providing the technical assistance, design and construction as well as the upfront financing to restore 24,560 linear feet of stream and 64 acres of riparian buffer on two farms.

To learn more about the Trust Fund and to track projects funded in your region, please visit:

dnr.maryland.gov/ccs

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The allocation and implementation of the Trust Fund is a collaborative effort between the following partners: Maryland's bay agencies, the Scientific Advisory Panel, the General Assembly. The program is administered by the Maryland Department of Natural Resources.

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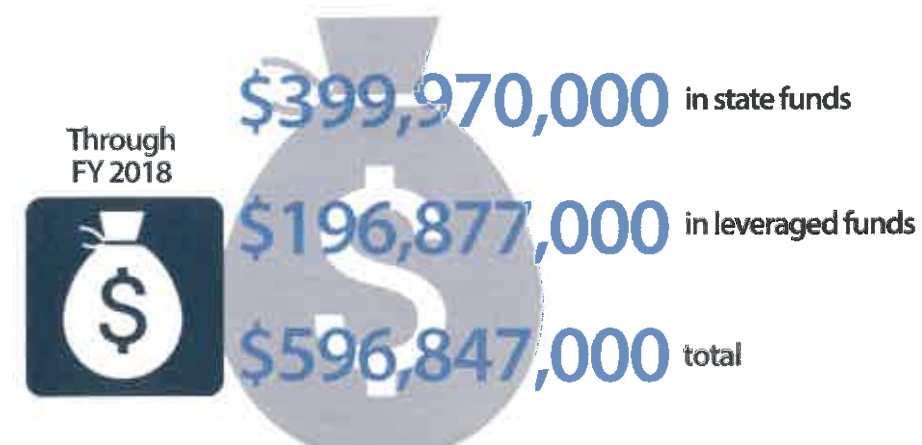


The Chesapeake and Atlantic Coastal Bays Trust Fund (Trust Fund) was created to provide the financial assistance necessary to advance bay restoration by focusing limited financial resources on the most effective pollution control projects. Essential to its success is an annual allocation process that:

- Targets funds to the most cost-effective locations and practices;
- Leverages funds to the greatest extent practicable;
- Engages the community and holds everyone accountable; and
- Provides the flexibility necessary to take advantage of constantly changing conditions, opportunities and scientific developments.

"The Chesapeake and Atlantic Coastal Bays Trust Fund has been catalytic in advancing the science, policy and regulation pertaining to water resources management in Maryland. As a Maryland business owner focused on restoring natural ecosystems, I've been able to grow my workforce and expand my company's mission by utilizing resources through the Trust Fund."

- Keith Underwood,
Underwood & Associates



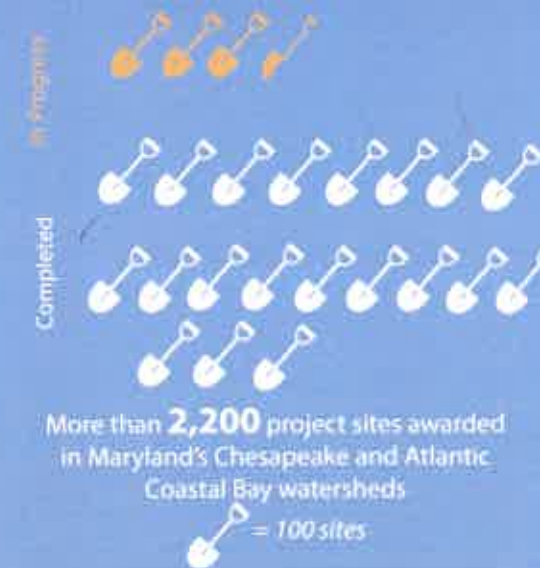
By the Numbers Annual Nutrient Reductions of Completed Projects:

2,192,189
lbs. Nitrogen

227,408
lbs. Phosphorus

186,532
tons Total Suspended Solids

Status of Funded Projects:



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Measuring Impact

Magothy Watershed Stream Restoration in Anne Arundel County

PROBLEM: Eroding stream banks and flooding along Cypress Creek were allowing excess nutrients and sediment to reach the Chesapeake Bay.

SOLUTION: Reduce excess nutrients and sediment by reconnecting floodplain and restoring wetlands and riparian buffer on the North Branch of Cypress Creek.

Erosion Reduction (Annual lbs.)

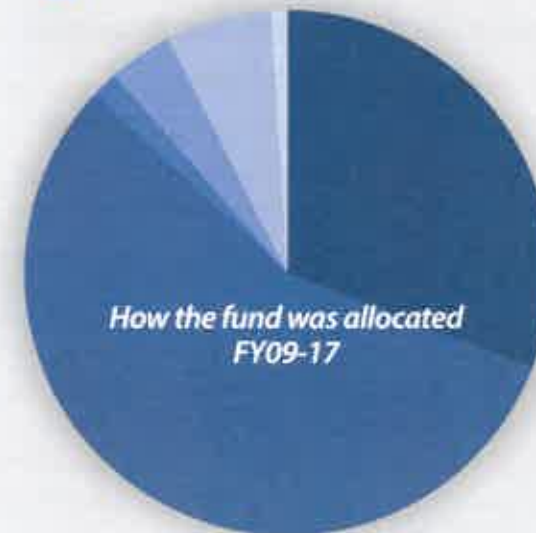
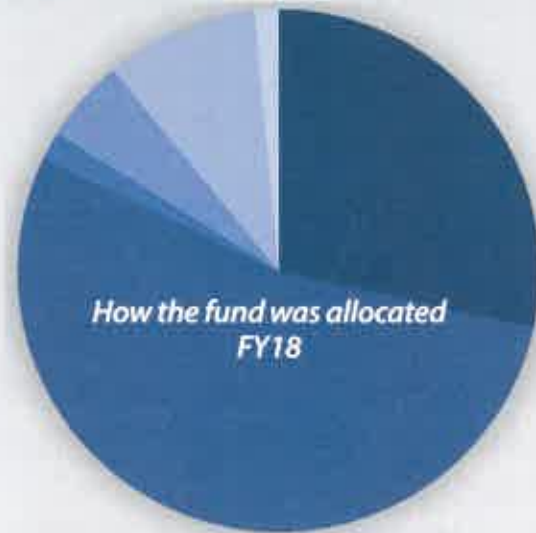
42,866 Suspended Sediments
349 Phosphorus
1,485 Nitrogen

Cost per Pound (Based on an est. 15-yr. project life)

cost per lb. of Sediments **\$4.46**
cost per lb. of Phosphorus **\$548**
cost per lb. of Nitrogen **\$129**



Trust Fund by the Numbers

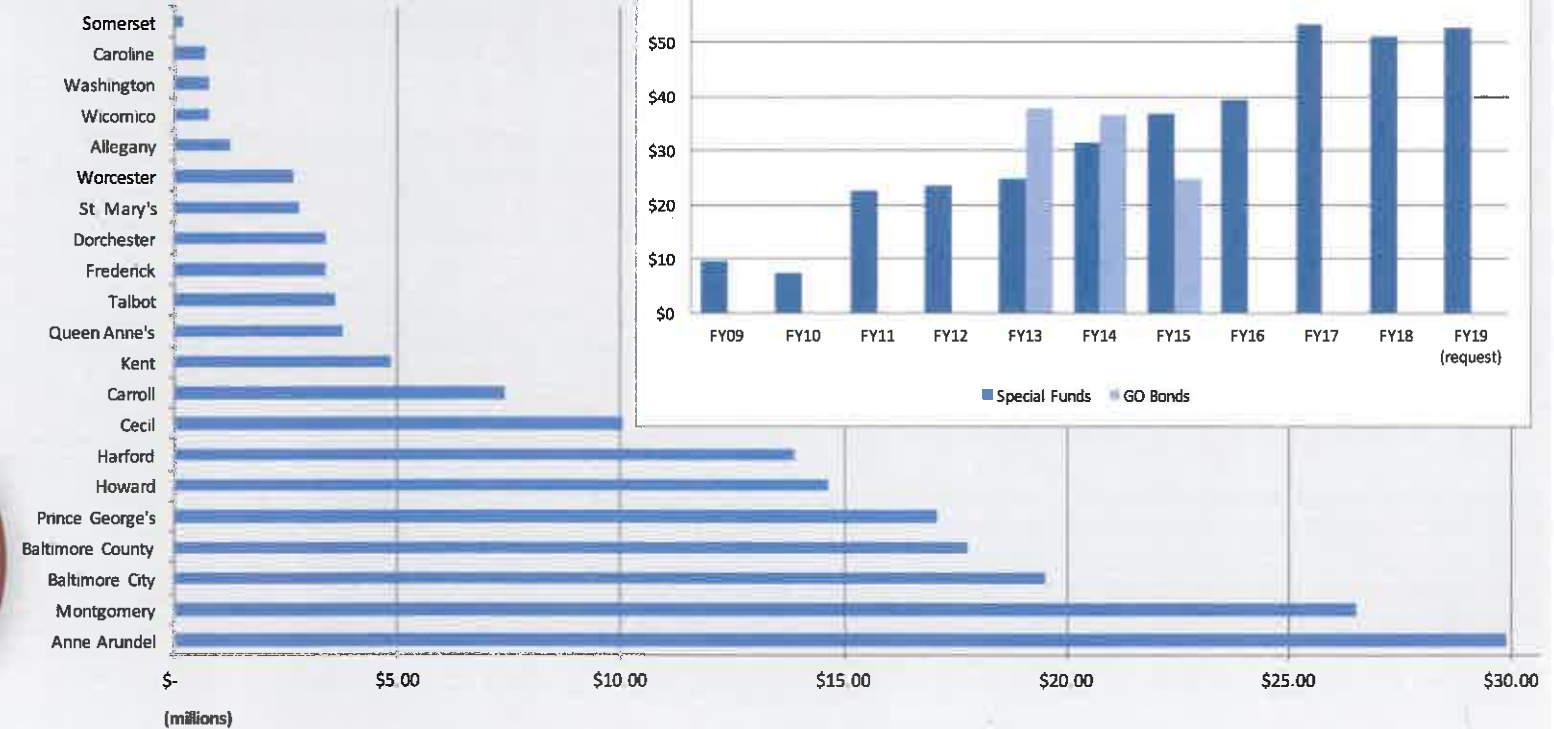


The Trust Fund is funded through gasoline and rental car tax revenues.

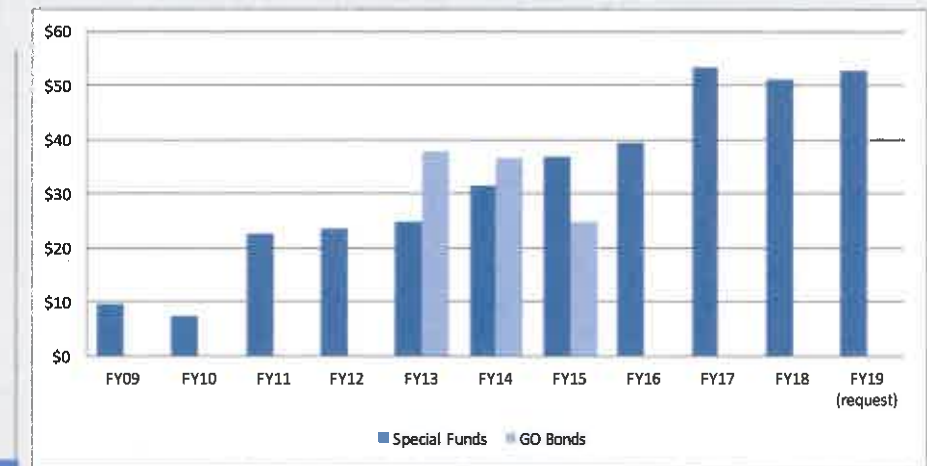
\$400 million to date

for nonpoint source pollution projects across Maryland

Funding by County 2009-2017



Trust Fund Growth 2009-2019 (in millions)



Completed to Date



2,706 acres of wetland restored
151,484 linear feet of stream restored
470 stormwater retrofits installed
500 rain gardens installed
17 acres of impervious surface removed



15,467 urban trees
374,146 acres of Cover Crops in FY17
1,161 acres of riparian forest



34,680 volunteers engaged
2,619 direct and indirect jobs supported