CHESAPEAKE AND ATLANTIC COASTAL BAYS TRUST FUND
2017 ANNUAL REPORT

The Chesapeake and Atlantic Coastal Bays Trust Fund (Trust Fund) was created to provide the financial assistance necessary to advance Chesapeake 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 the constantly changing conditions, opportunities and scientific developments.

"The Trust Fund has quickly become one of the most innovative and important water quality financing programs in the region. Its singular focus on reducing non-point sources of nutrient and sediment pollution makes it one of the only programs of its kind."

- Dan Nees, Director Environmental Finance Center
University of Maryland

$348,660,000 in state funds

$189,993,000 in leveraged funds

$538,653,000 total

By the Numbers

Annual Nutrient Reductions of Completed Projects:

2,016,922
lbs Nitrogen
+ an estimated 1.3 million lbs annually through cover crops

346,533
lbs Phosphorus
+ an estimated 45,000 lbs annually through cover crops

22,627
tons Total Suspended Solids

Status of Funded Projects:

Over **2,000** project sites awarded in Maryland's Chesapeake Bay Watershed

= 100 sites

CHESAPEAKE AND ATLANTIC COASTAL B

Measuring Impact: Red Hill Branch Stream Restoration in Howard County

PROBLEM: Eroding stream banks in an urban area were allowing excess sediments and nutrients to reach the Chesapeake Bay.

SOLUTION: Stabilizing and re-vegetating 3,165 linear feet of stream banks in addition to reducing excess nutrients. Project improved stream habitat, protected property and infrastructure.

Erosion Reduction
(Annual lbs.)

240,497 lbs. of Suspended Sediments

665 lbs. of Phosphorus

639 lbs. of Nitrogen

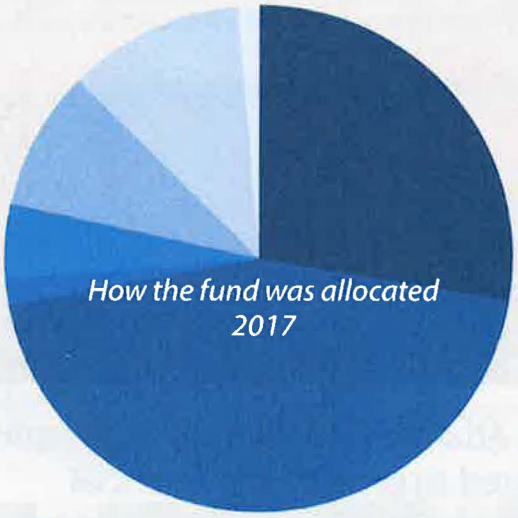
Cost per Pound
(Based on an est. 5-yr project life)

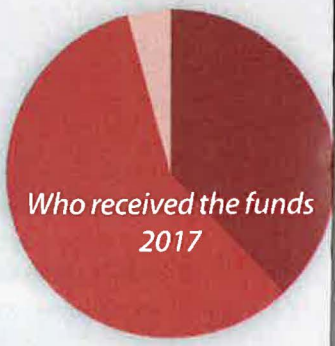
cost per lb. of Sediments **$0.87**

cost per lb. of Phosphorus **$315**

cost per lb. of Nitrogen **$328**

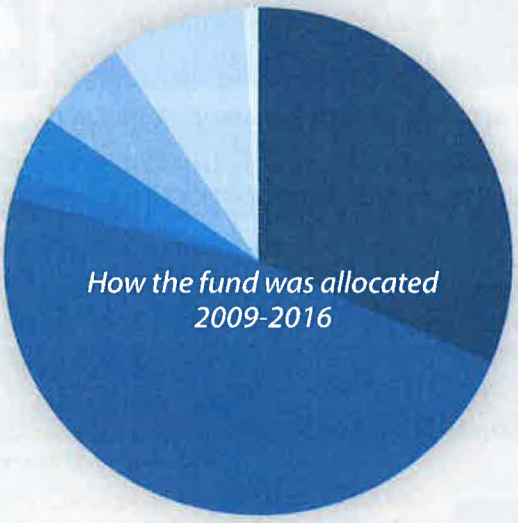
Trust Fund By the Numbers





- Agriculture
- Stormwater and Local BMPs
- Monitoring and Tracking
- Research and Development
- Technical Assistance
- Natural Filters
- Administration

- Non-profit
- County
- Municipality
- State
- University
- Federal



653 acres of wetland restored

207,900 linear feet of stream restored

566 stormwater retrofits installed

533 rain gardens installed

38 acres of impervious surface removed

CHESAPEAKE AND ATLANTIC COASTAL BAYS TRUST FUND
FY18 BUDGET AT A GLANCE

Annual Appropriation (FY 16 - FY 18)

	FY 2016 (actual)	FY 2017 (estimate)	FY 2018 (estimate)
Annual Appropriation			
Opening Balance	$2,100,000	4,150,000	$1,480,000
Revenue	$50,380,000	$50,800,000	$51,310,000
Transfers to the General Fund			
Chapter 397 of 2011	($4,630,000)	$0	$0
2015 Budget Reconciliation and Financing Act	($9,000,000)	$0	$0
2016 Budget Reconciliation and Financing Act	$0	$0	$0
Subtotal General Fund Transfers	($13,270,000)	$0	$0
Available Revenue Revised	$ 39,220,000	$54,950,000	$ 53,130,000
State Spending	$39,428,340	$53,470,000	$51,310,000

Annual Expenditure Plan (FY 16 - FY 18)

Targeted Activity	Project Partner	FY 16 Actual	FY 17 Current	FY 18 Request	+/- FY 17 to FY 18
Accountability, Verification and Management					
1. Strategic Monitoring & Assessment	Natural Resources	$400,000	$400,000	$400,000	$0
2. Targeted Monitoring Grant Program	Competitive grants	$300,000	$300,000	$300,000	$0
3. Implementation Tracking	Information Technology	$200,000	$200,000	$200,000	$0
4. Administration & Management (1.5%)	Natural Resources	$591,000	$750,000	$770,000	$20,000
Accelerating Restoration through Research & Development					
5. Innovative Technology Fund	Natural Resources/ University of Maryland	$1,000,000	$1,000,000	$1,000,000	$0
6. Manure Management through Proven Technology	Agriculture	$1,510,000	$1,510,000	$1,660,000	$150,000
Implementation Technical Assistance					
7. Agricultural Technical Assistance	Agriculture	$3,290,000	$3,290,000	$3,290,000	$0
8. Water Management Permit Expediters	Environment	$750,000	$750,000	$750,000	$0
9. Field Restoration Specialists	Natural Resources	$750,000	$750,000	$750,000	$0
	Sub TOTAL	$8,791,000	$8,950,000	$9,220,000	$170,000
Integrated Targeted Projects to Meet Maryland's Milestones					
Implementation of Agricultural Practices					
10. Cover Crop Program	Agriculture	$12,250,000	$11,250,000	$11,250,000	$0
11. Conservation Reserve Enhancement Program Bonus Payments	Agriculture	$500,000	$500,000	$500,000	$0
12. Grants to Farmers	Agriculture	$1,000,000	$2,000,000	$2,000,000	$0
13. Manure Transport Program	Agriculture	$750,000	$750,000	$750,000	$0
14. Governor's Phosphorus Management Tool Initiative	Agriculture	$300,000	$300,000	$150,000	($150,000)
Implementation of Local Watershed Implementation Plans (WIPS)					
15. Cost-Effective Nonpoint Source Projects	Competitive grants	$9,809,000	$23,720,000	$21,540,000	($2,180,000
16. Natural Filters on Public Lands	Competitive grants	$6,028,340	$6,000,000	$6,000,000	$0
	Sub TOTAL	$30,637,340	$44,520,000	$42,190,000	($2,330,000
	GRAND TOTAL	**$39,428,340**	**$53,470,000**	**$51,310,000**	**($2,160,000)**

CHESAPEAKE AND ATLANTIC COASTAL BAYS TRUST FUND
FY18 BUDGET DETAILS

Accountability, Verification and Management : $1,670,000

1. Strategic Monitoring & Assessment: Will provide $400,000 to develop and implement monitoring strategies, collect and analyze data for trends, provide biological monitoring in Trust Fund watersheds and comparison watersheds, and communicate the results of the restoration efforts.

2. Targeted Monitoring Grant Program: Will provide $300,000 to competitively fund monitoring projects that will answer regulatory and restorative questions about best management practices for non-point source pollution in a robust, rigorous and representative manner.

3. Implementation Tracking: Will continue to provide $200,000 to provide hosting, application, maintenance, and data support services for the Trust Fund dashboard, mapper and Maryland's iMAP services.

4. Administration & Management: Will provide 1.5 percent of the total operating allowance to provide fiscal oversight; manage grant programs including solicitation development, project review, contract and project development and management; coordinate with Bay agencies, the Scientific Advisory Panel, Department of Budget and Management, and Department of Legislative Services, and report to the General Assembly.

Accelerating Restoration through Research and Development: $2,660,000

5. Innovative Technology Fund: Will provide $1,000,000 to the fund, established with the goal of accelerating Chesapeake Bay restoration through the development of new innovative technologies. It is made possible through funding from the Trust Fund, the Environmental Protection Agency's Chesapeake Bay Implementation Grant and in partnership with the University of Maryland's Industrial Partnership and the Mtech Ventures Program.

6. Manure Management Projects with Proven Technology: Will provide $1,660,000 to support the Animal Waste Technology Fund. These funds will be used to support technologies that provide promising alternatives for utilization of excess animal wastes such as energy production.

Implementation Technical Assistance: $4,790,000

7. Agricultural Technical Assistance: Will provide $3,290,000 to support agricultural technical assistance positions in Soil Conservation Districts. In total, the Trust Fund now supports 68 (43 state and 25 local) Soil Conservation District positions needed to assist farmers in the implementation of agricultural best management practices as identified in the Watershed Implementation Plan.

8. Water Management Permit Expediters: Will provide $750,000 to expedite state review of qualifying stormwater and wetland restoration projects, and to protect the quality of the ground and surface waters.

9. Field Restoration Specialists: Will provide $750,000 to increase the level of field specialists to assist state and local partners identify, engineer, design, and provide construction and construction oversight assistance of priority Chesapeake Bay restoration projects.

Implementation of Agricultural Practices: $14,650,000

10. Cover Crop Program: Will provide $11,250,000 to Maryland's Cover Crop Program to supplement funds provided through Maryland's Chesapeake Bay Restoration Fund. Cover crops are critical to achieving the reduction of nutrients necessary to meeting the the Watershed Implementation Plan.

11. Conservation Reserve Enhancement Incentive: Will provide $500,000 to support the Conservation Reserve Enhancement Program. Trust Funds are used to provide the state $100 per acre signing incentive for new and re-enrolled acres on eligible best management practices including grass and forest stream- side buffers, wetlands and permanent stabilization of highly erodible land.

12. Grants to Farmers (Nutrient Management Regulations): Will provide $2,000,000 to assist farmers with implementing nutrient management regulations. This funding will help offset the infrastructure costs to implement or enhance manure storage and provide incentives for improved management of manure and other sources of crop nutrients.

13. Manure Transport Program: Will provide $750,000 to transport excess manure away from farms with high soil phosphorus levels to other farms or locations that can use the manure agronomically or for safe alternative to land application . Dollars will leverage funds already provided by poultry companies and state general funds traditionally used to support manure transport.

14. Governor's Phosphorus Management Tool Initiative: Will provide $150,000 to provide technical assistance through nutrient management advisors to assist farmers in planning for phosphorun management tool transition and implementation of management changes.

Implementation of Local Watershed Implementation Plans: $27,540,000

15. Cost-Effective NonPoint Source Projects: Will provide $21,540,000 to projects that deliver the greatest, most cost-effective and measurable nonpoint source pollution reduction per dollar. Grants are awarded on a competitive basis to projects that target and reflect the state's diverse landscapes, challenges and sources of pollution.

16. Natural Filters on Public Lands: Will provide $6,000,000 for the implementation of nutrient and sediment reduction projects on state and public lands. Projects include forested buffers, reforestation, wetland restoration, stream and floodplain restoration, stormwater retrofits and other bioremediation projects.

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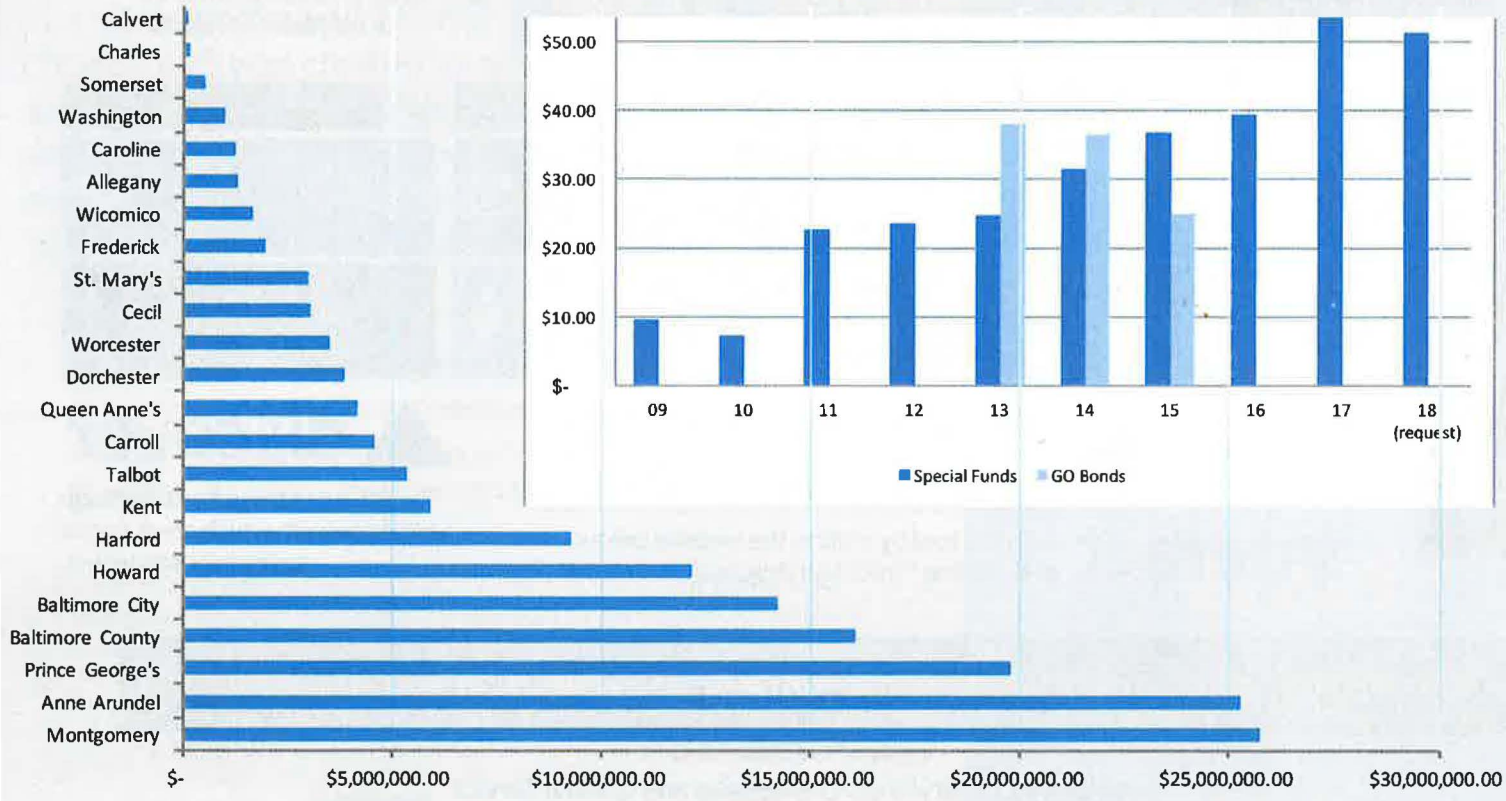
$348 million to date

for non point source pollution projects across Maryland

Funding by County 2009-2016



Trust Fund Growth 2009-2018 (in millions)

Between 2009-2016

14,164 urban trees

229,251 acres of Cover Crops in FY 16

1,165 acres of riparian forest

32,037 volunteers engaged

2,290 direct and indirect jobs supported

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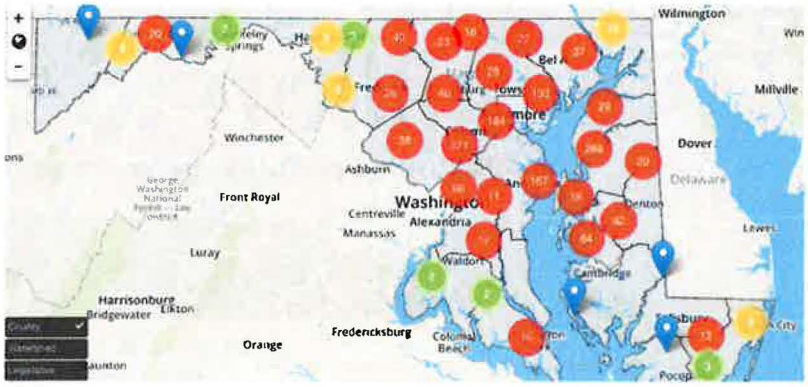
Transparency and Fiscal Responsibility

In partnership with Maryland's Department of Information Technology and University of Salisbury's Eastern Shore Regional GIS Cooperative, the Trust Fund has developed an interactive dashboard for stakeholders to learn more about the fund's impact and investments across the region.

search
projects and investments by region, including county, watershed, and legislative districts.



$ Financials | Projects

explore
data based on the investments or number of projects.

filter
by project type, status, partner or a date range.

Track Our Progress!

interact with the tool by visiting the website below and clicking "Track Our Progress"

discover
the impact of these funds through specific outputs which are dynamic to your chosen region.

http://dnr.maryland.gov/ccs/Pages/funding/trust-fund.aspx

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Maryland Department of the Environment
Maryland Department of Natural Resources
Maryland Department of Planning

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

Publication Date: 1/2017
14 Watershed Service-1152016-797
Printed on recycled paper

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