

Chesapeake & Atlantic Coastal Bays Trust Fund

FY21 - FY23 Work and Expenditure Plan

Larry Hogan, Governor
Boyd K. Rutherford, Lt. Governor
Jeannie Haddaway-Riccio, Secretary



SECRETARY STATEMENT

"As stewards of Maryland's natural resources, it is of paramount importance that we continue to work together to conserve, protect, and restore our landscapes and waterways for future generations.

"The Chesapeake and Atlantic Coastal Bays Trust Fund is one of Maryland's most effective resources for bringing partners and communities together for watershed restoration and meeting our pollution reduction goals.

"Over the coming year, we will work with those partners to thoughtfully incorporate resilience into our restoration efforts to ensure the progress made to date is not lost over time. Utilizing the best available science, modeling, monitoring, and planning, we will continue to turn emerging opportunities into real results for our environment."



Lt. Governor Boyd K. Rutherford and Secretary Jeannie Haddaway-Riccio plant beach plum trees at the West River Coastal Resilience Project in Anne Arundel County, which was partially funded through the Chesapeake and Atlantic Coastal Bays Trust Fund.

JEANNIE HADDAWAY-RICCIO

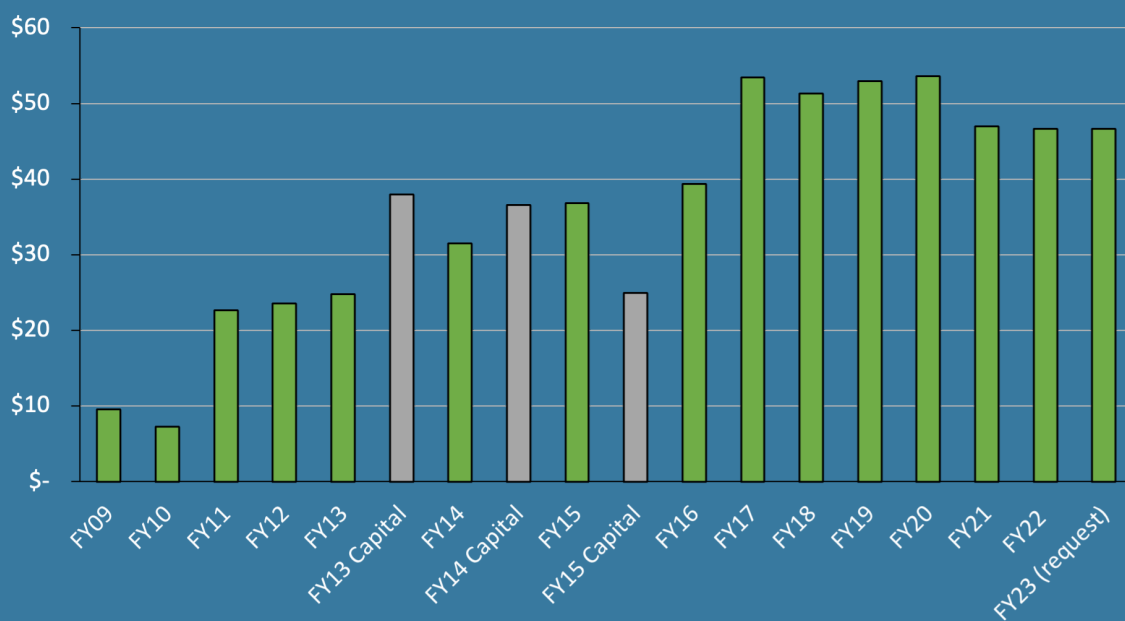
Secretary, Department of Natural Resources

FINANCIAL OVERVIEW

The Chesapeake and Atlantic Coastal Bays Trust Fund (Trust Fund) is administered by the Maryland Department of Natural Resources (DNR). The allocation and implementation of the Trust Fund is a collaborative effort that includes Maryland's Chesapeake Bay Cabinet agencies and a Scientific Advisory Panel.

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 achievable;
- Engages the community while holding everyone accountable; and
- Provides the flexibility necessary to take advantage of constantly changing conditions, opportunities and scientific developments.



Revenue for the Trust Fund is derived from gasoline and rental car tax. In FY13, FY14, and FY15, the Trust Fund received general obligation bonds (gray bar). The economic impact of the COVID-19 pandemic impacted revenues. (shown in millions)

CHESAPEAKE AND ATLANTIC COASTAL BAYS TRUST FUND

FY23 BUDGET AT A GLANCE



Annual Expenditure Plan (FY21 - FY23)

Targeted Activity	Project Partner	FY21 Actual	FY22 Current	FY23 Request	+/- FY22 to FY23
Accountability, Verification and Management					
1. Strategic Monitoring & Assessment	Natural Resources	\$400,000	\$400,000	\$400,000	\$0
2. Implementation Tracking	Information Technology	\$200,000	\$200,000	\$200,000	\$0
3. Administration & Management (1.5%)	Natural Resources	\$770,000	\$700,000	\$700,000	\$0
Accelerating Restoration through Research & Development					
4. Innovative Technology Fund	Natural Resources/ University of Maryland	\$1,000,000	\$1,000,000	\$1,000,000	\$0
5. Restoration Research Grant Program	Competitive grants	\$300,000	\$300,000	\$300,000	\$0
Implementation Technical Assistance					
6. Agricultural Technical Assistance	Agriculture	\$4,190,000	\$4,890,000	\$4,890,000	\$0
7. Water Management Permit Expeditors	Environment	\$750,000	\$750,000	\$750,000	\$0
8. Field Restoration Specialists	Natural Resources	\$750,000	\$750,000	\$750,000	\$0
9. Tree Solutions Now Coordinator & Regional Foresters	Environment / Natural Resources	\$0	\$0	\$1,250,000	\$1,250,000
Sub TOTAL		\$8,360,000	\$8,990,000	\$10,240,000	\$1,250,000
Non-point Source Pollution Control Projects					
10. Cover Crop Program	Agriculture	\$11,593,204	\$11,250,000	\$11,250,000	\$0
11. Conservation Reserve Enhancement Program Bonus Payments	Agriculture	\$156,796	\$500,000	\$500,000	\$0
12. Grants to Farmers	Agriculture	\$2,560,000	\$3,010,000	\$3,010,000	\$0
13. Manure Management Program	Agriculture	\$2,200,000	\$1,750,000	\$1,750,000	\$0
14. Competitive Grant Program	Competitive grants	\$16,130,000	\$15,160,000	\$14,910,000	(\$250,000)
15. Natural Filters on Public Lands	Competitive grants	\$6,000,000	\$6,000,000	\$5,000,000	(\$1,000,000)
Sub TOTAL		\$38,640,000	\$37,670,000	\$36,420,000	(\$1,250,000)
GRAND TOTAL		\$47,000,000	\$46,660,000	\$46,660,000	\$0

CHESAPEAKE AND ATLANTIC COASTAL BAYS TRUST FUND

FY23 BUDGET DETAILS

Accountability, Verification and Management : \$1,300,000

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

2. Implementation Tracking: \$200,000 to provide hosting, application, maintenance, and data support services for the Trust Fund dashboard, mapper and Maryland's integrated map services.

3. Administration & Management: 1.5% 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 Chesapeake Bay Cabinet agencies, the Scientific Advisory Panel, Maryland Department of Budget and Management, Department of Legislative Services; and report to the Maryland General Assembly.

Accelerating Restoration through Research and Development: \$1,300,000

4. Innovative Technology Fund: \$1 million to the fund with the goal of accelerating Chesapeake Bay restoration through the development of new innovative technologies. The Trust Fund, U.S. Environmental Protection Agency's Chesapeake Bay Implementation Grant, and the University of Maryland's Industrial Partnership and Mtech Ventures Program all contribute to the fund.

5. Restoration Research Grant Program: \$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.

Implementation Technical Assistance: \$7,640,000

6. Agricultural Technical Assistance: \$4.89 million to support agricultural technical assistance positions in Soil Conservation Districts (SCDs). In total, the Trust Fund now supports 78 (53 state and 25 local) SCD positions needed to assist farmers in the implementation of agricultural best management practices as identified in the Watershed Implementation Plan (WIP).

7. Water Management Permit Expeditors: \$750,000 to expedite state review of qualifying stormwater and wetland restoration projects, and to protect the quality of the ground and surface waters.

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

9. Tree Solutions Now Act: \$1.25 million to support the tracking and implementation of the five million tree goal.

Non-point Source Pollution Control Projects: \$36,420,000

10. Cover Crop Program: \$11.25 million 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 WIP.

11. Conservation Reserve Enhancement Incentive: \$500,000 to support the Conservation Reserve Enhancement Program (CREP). Trust Funds are used to provide the state 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: \$3.01 million to help farmers adopt best management practices on their farms: to protect natural resources and comply with federal, state and local environmental requirements; address Maryland's nutrient management requirements (Phosphorus Management Tool); and new projects focused on co-benefit outcomes and small farm operations..

13. Manure Management Program: \$1.75 million to transport manure away from farms with high soil phosphorus levels to other farms or locations that can use the manure agronomically. Funding will be leveraged by poultry integrators and state general funds traditionally used to support manure transport. Funds will also be used to support manure injection and nutrient management planning assistance for enhanced natural resource protection.

14. Competitive Grant Program: \$14.91 million to support targeted, sustainable and cost-effective approaches that dramatically reduce nutrient and sediment pollution to the Chesapeake Bay, coastal bays and local waterways.

15. Natural Filters on Public Lands: \$5 million for the implementation of nutrient and sediment reduction projects on public lands. Projects include forested buffers, reforestation, wetland restoration, stream and floodplain restoration, stormwater retrofits and other bioremediation projects.

BY THE NUMBERS



BUDGETED
FY09 - FY22

+

\$600,190,000

state funds

\$245,459,230

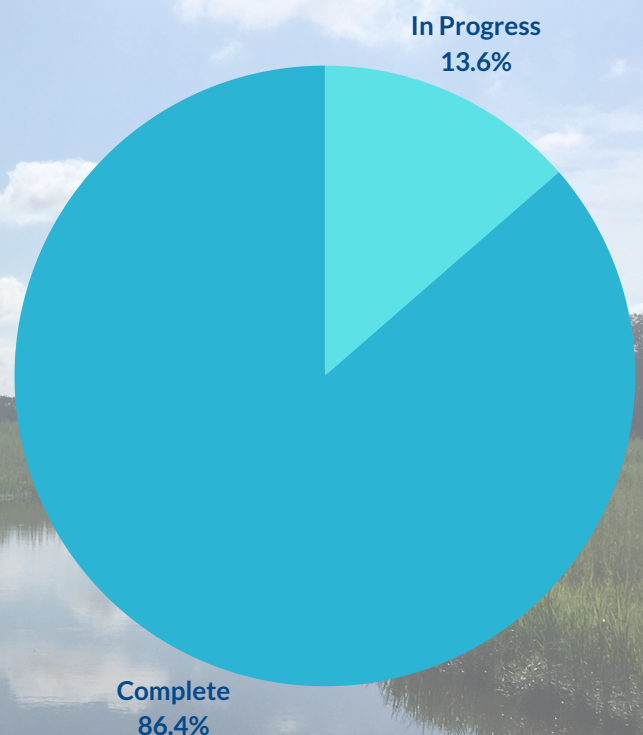
leveraged funds

\$845,649,230

total investment

3,007

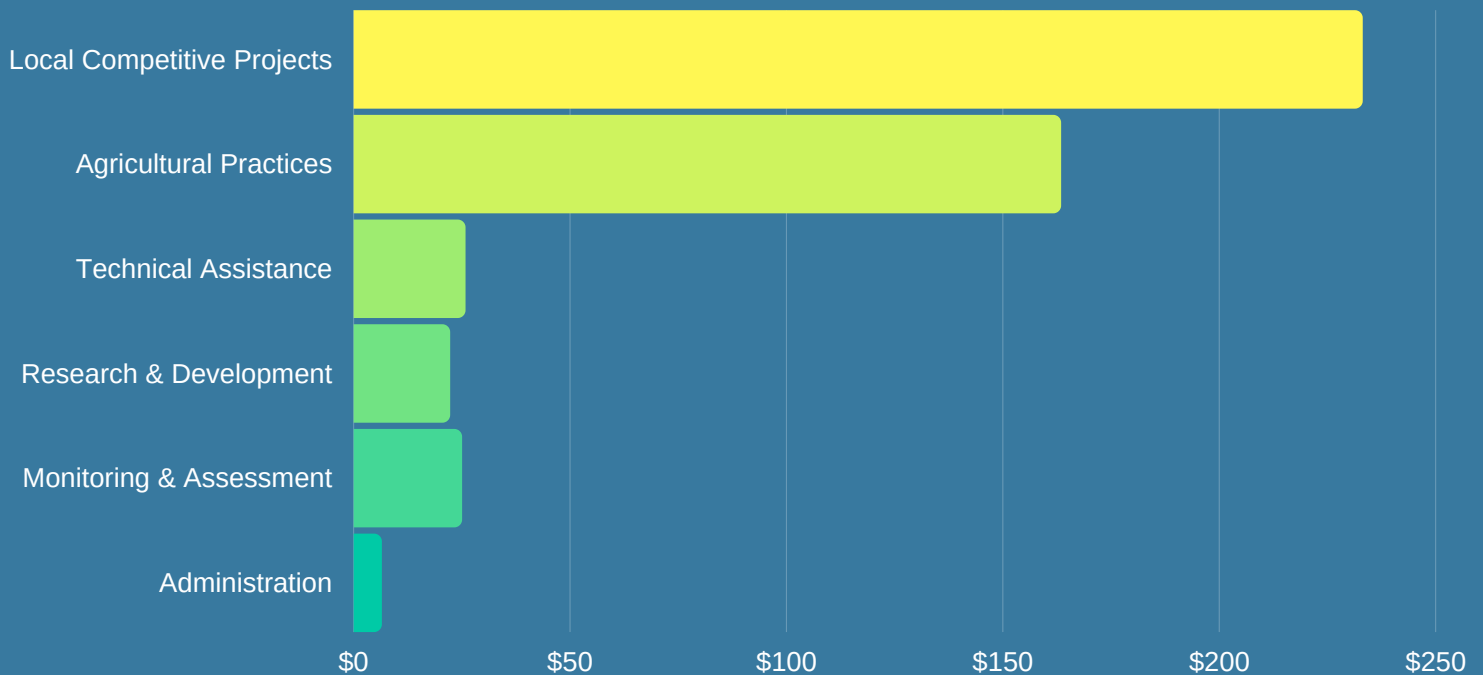
Total Project Sites



BY THE NUMBERS

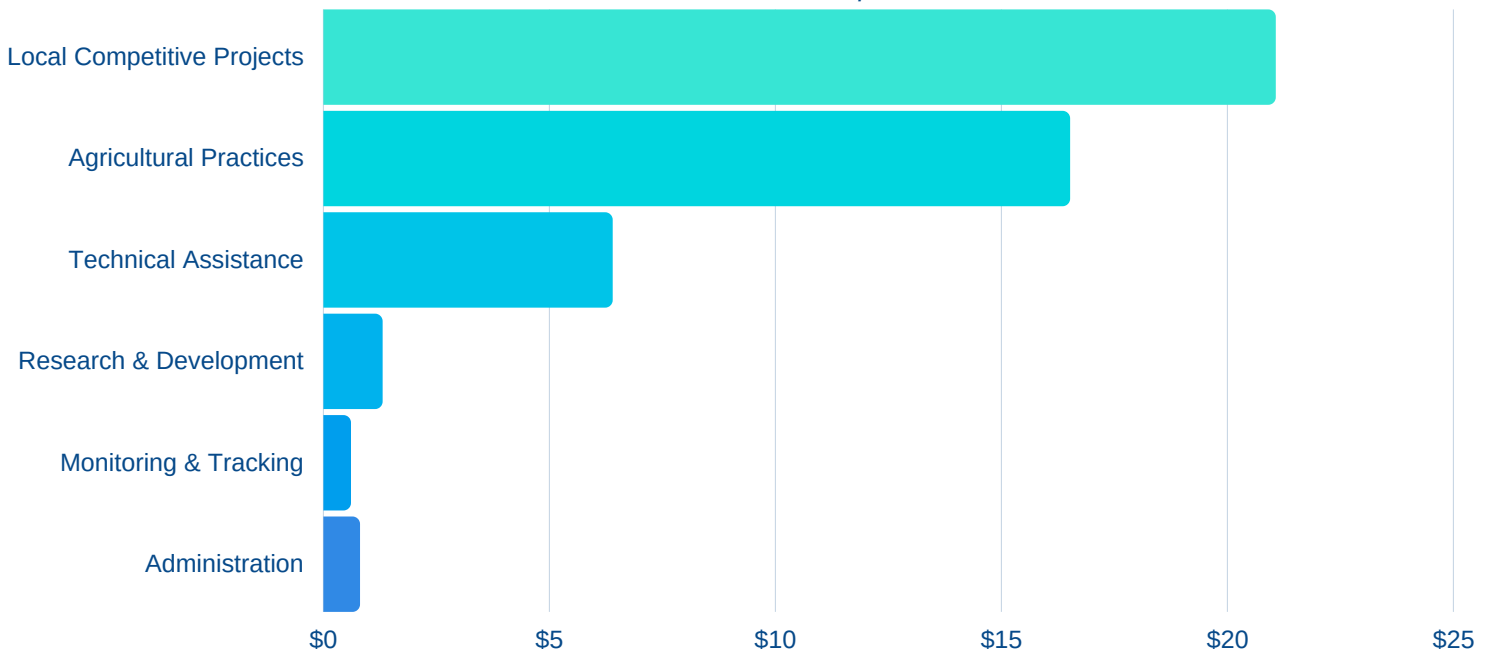
Funding Portfolio FY09 - FY21

in millions \$



Funding Portfolio FY22

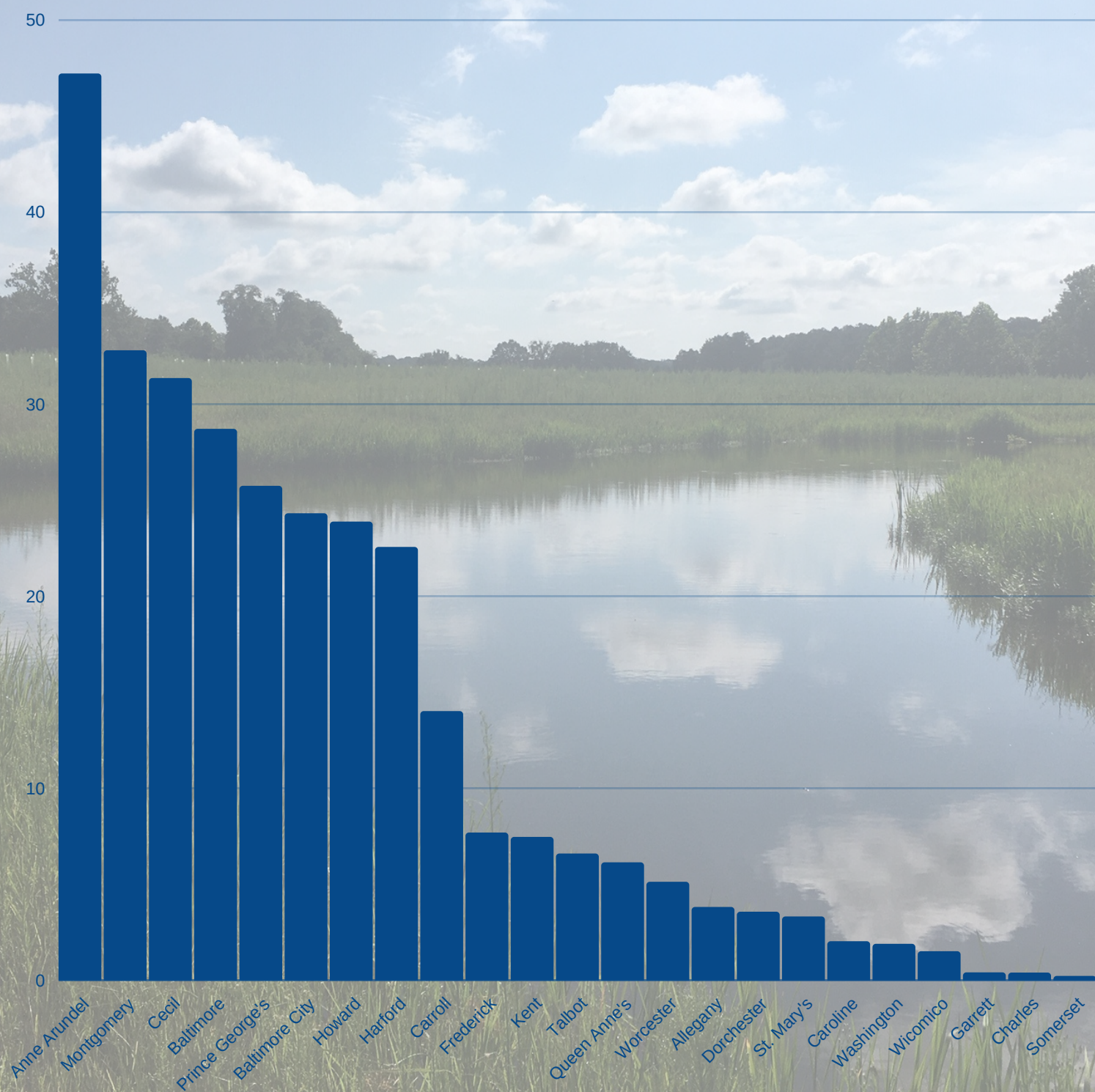
in millions \$



BY THE NUMBERS

Funding by County (FY09 - FY21)

in millions \$

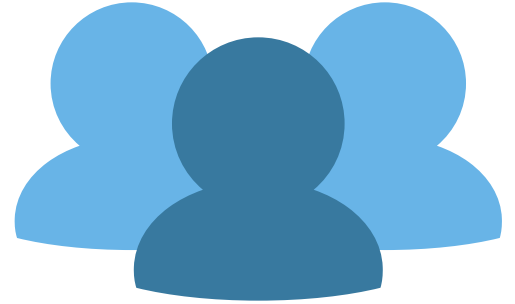


BY THE NUMBERS

Completed as of fall 2021



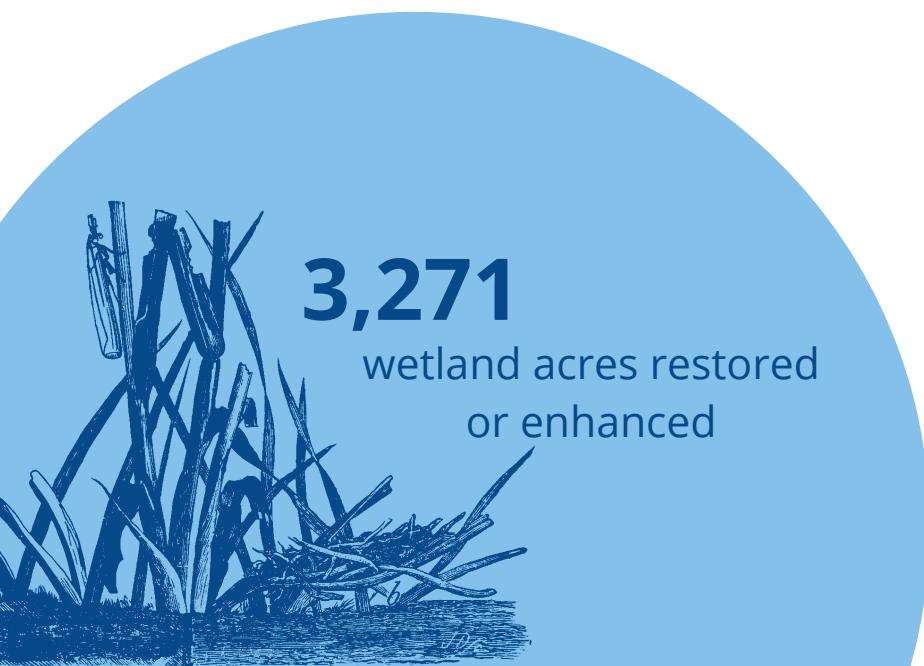
28,331
urban trees planted



39,421
volunteers and
students engaged

297,771 linear feet of
stream restored

1,622
riparian acres planted



3,271
wetland acres restored
or enhanced



1,387
stormwater management
facilities installed
(includes residential)

53
innovative technologies
supported

INVESTMENT IN AGRICULTURE FY21

Cover Crop Program

Total acres: 434,434
Nitrogen reduced: 2,997,595 lbs
Phosphorus reduced: 3,475 lbs

\$11,593,204

CREP Incentive

New Enrollment

Total acres: 427
Nitrogen reduced: 11,788 lbs
Phosphorus reduced: 186 lbs

\$156,796

1,186 acres re-enrolled

Agricultural Technical Assistance: \$4,190,000

Category	Total Accomplished	Est. Nitrogen Reduction (lbs)	Est. Phosphorus Reduction (lbs)	Est. Sediment Reduction (lbs)
Acres of conservation planning	31,220	43,708	3,122	4,739,196
Best management practices applied or installed	175	11,116	823	401,331
Verified best management practices meeting standards	838	53,230	3,939	1,921,802
TOTAL		108,054	7,884	7,062,329

MEASURING FOR RESULTS



State Fiscal Year	SFY 2021 actual	SFY 2022 actual	SFY 2023 estimate
Funding Level	\$47,000,000	\$46,660,000	\$46,660,000
Nitrogen (lbs) Annual practices	3,077,586	3,101,491	3,472,772
Nitrogen (lbs) Landuse practices	104,876	113,536	113,356
Phosphorus (lbs) Annual practices	17,779	17,543	17,974
Phosphorus (lbs) Landuse practices	8,040	7,190	7,190
Sediment (tons) Annual practices	359	352	352
Sediment (tons) Landuse practices	7,040	8,482	8,482

Cumulative totals

Landuse Practices
FY13 - FY21

1,276,046
lbs nitrogen

197,060
lbs phosphorus

188,076
tons sediment

IN FOCUS:

ACCELERATING TREE PLANTING

Maryland seeks to plant and maintain five million native trees by the end of CY31. At least 500,000 of those trees are to be planted in areas of the state designated as "underserved" based on indicators defined in statute. The Trust Fund is one of the financial mechanisms identified to help meet these goals through a partnership with the Maryland Department of the Environment (MDE), Maryland Department of Agriculture (MDA) and Chesapeake Bay Trust (CBT).

DNR:

- *\$1.25 million invested in tree coordinator and forestry positions*

MDA:

- *A one-time \$1,000 per acre signing bonus for stream-side buffers via CRE.*

MDE:

- *Lead for tracking, program coordination and accounting*

CBT:

- *\$10 million annual investment in urban tree goal of 500,000 trees.*

PARTNER HIGHLIGHT

Trust Fund Investment:
\$4,721,532

Project Partners:

- Maryland Forest Service
- Alliance for the Chesapeake Bay
- Maryland Forest Conservancy District Boards
- Maryland Landowners

Restoration Components:

- 1,018.5 acres reforested
- 17 acres of native meadow restored

Estimated Reductions:

- 31,559.49 lbs. N/year
- 1,347.09 lbs. P/year
- 1,221.40 tons TSS/year

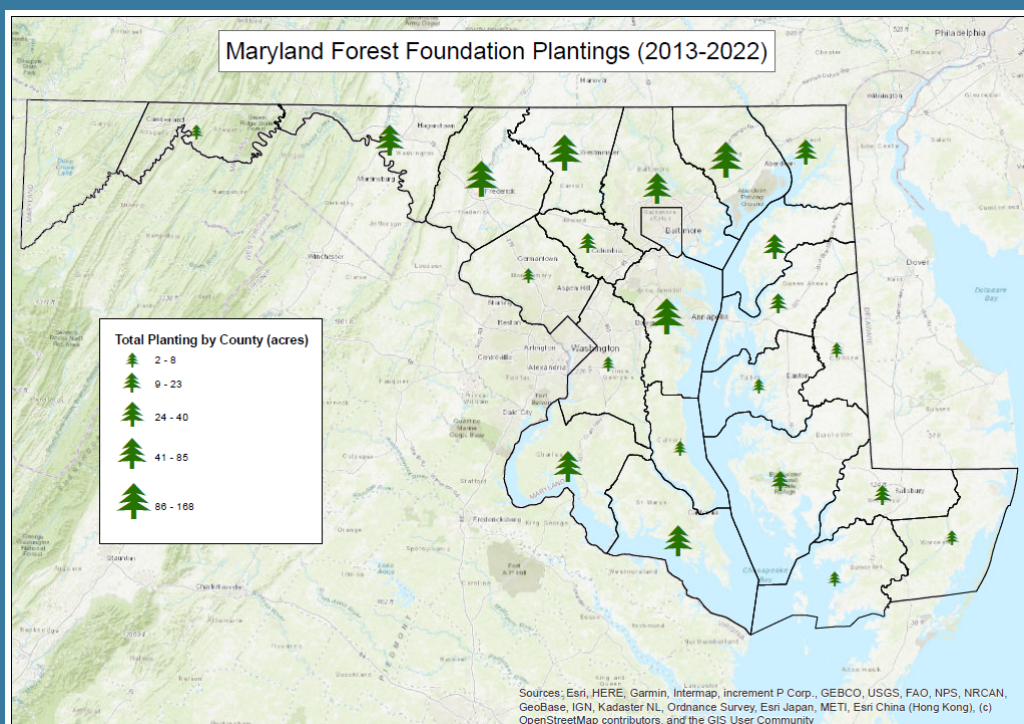
Maryland Forestry Foundation (MFF) *Healthy Forest Healthy Waters (HFHW)*

MFF has partnered with the Trust Fund since 2013 to increase forest cover in the watershed. Through partnerships and landowner engagement, MFF administers the HFHW initiative, which plants and works to maintain riparian and upland tree projects across Maryland on public and private lands.

HFHW offers private landowners in Maryland an opportunity to establish new woodland cover on their property, which may improve water and air quality, climate resilience, habitat, and offer many other benefits both to the individual landowner as well as others.

MFF has been particularly successful in their afforestation efforts through its strong partnerships, willingness to work personally with each participant, and their commitment to establishing and protecting the trees once planted. MFF provides establishment maintenance in the first years following planting and participating landowners ensure the longevity of these projects by signing a minimum 10-year stewardship agreement to protect planted trees.

This effort is enhanced by partnerships with The Alliance for the Chesapeake Bay and Maryland Forest Service, who work with participating landowners to develop personalized tree planting plans that match landowner goals and site conditions. Further outreach is achieved through Forest Conservancy District Boards, who serve as volunteer project contacts for participating landowners in their individual counties. The Forest Conservancy District Boards support landowners throughout project implementation and maintenance phases, providing helpful information to landowners to ensure success.



FY 2021 Awards

Anne Arundel County

Alliance for the Chesapeake Bay: \$285,980 to install 430 linear feet of regenerative stormwater conveyance and 885 linear feet of living shoreline at West River United Methodist Center (District 38A)

Anne Arundel County: \$827,000 for a stormwater outfall and approximately 1,377 linear feet of downstream channel in Forked Creek (District 33)

Anne Arundel Soil Conservation District: \$2,416,487 for nature-based ecosystem restoration on two privately owned agricultural properties (District 30B)

Arundel Rivers Federation: \$280,000 to reconnect the floodplain of a rapidly eroding stream in the Beards Creek watershed of the South River (District 30B)

Baltimore County

Baltimore County: \$3 million to restore 7,225 linear feet of stream in Lower Gunpowder Falls and Gwynn's Falls (Districts 8 & 10)

Baltimore Soil Conservation District: \$1 million for stream, floodplain, and riparian restoration at Long Green Creek (District 7)

Manor Conservancy: \$1,181,844 to restore approximately 4,462 linear feet of the mainstem of Carroll Branch and 3,780 linear feet of an unnamed tributary (District 42B)

Pearlstone Center: \$900,000 for three best management practices, including a stream restoration of the unnamed tributary to North Branch Patapsco River, a wet meadow, and a bioretention (District 10)

University of Maryland Baltimore County: \$1 million for stream restoration, outfall stabilization and riparian buffer enhancement (District 45)

Baltimore City

Baltimore Tree Trust: \$500,000 to increase urban tree canopy by planting 6,000 trees, including street trees, medians, and golf courses (District 11 & 44A)

Baltimore City: \$200,000 to remove 14,610 square feet of impervious surface and increase infiltration within the Lower Jones Falls watershed (District 40)

Caroline County

Caroline County: \$1,095,976 for 2,300 linear feet of stream and wetland restoration, a regenerative stormwater conveyance system and log boulder structures to provide capture and treatment of runoff before it reaches the Choptank River (District 36)

Carroll County

Carroll County: \$42,000 for a riparian buffer planting on approximately 5.15 acres of County-owned land in the Liberty Reservoir Watershed (District 5)

Cecil County

Cecil Land Trust: \$4,725,000 to restore 12,143 linear feet of degraded streams and 45.1 acres of riparian buffers on the Long Green Farms (District 35B)

Cecil County: \$150,000 for design of multiple environmental site design practices to manage and treat stormwater runoff from large existing parking areas in Elk Neck State Park (District 36)

Frederick County

Frederick County: \$530,000 to plant large-scale riparian buffers and forest easements to increase forest cover on both private and public lands through the County's Creek ReLeaf Program (District 3B & 4)

Harford County

Harford County: \$1,374,000 for two stream restoration projects totaling 2,375 linear feet on county property (District 34A & 7)

Harford County Soil Conservation District: \$1,387,840 for stream restoration, wetland creation and enhancement, riparian buffer plantings in Graveyard Creek (District 35B)

Harford County Soil Conservation District: \$288,555 for 5.9 acres of forested wetland restoration and 6.2 acres of riparian forest buffer in the Deer Creek watershed (District 35B & 7)

Howard County

Howard County: \$1,355,000 million for 3,640 linear feet of badly eroding stream and improve water quality in Deep Run (Districts 12)

Kent County

ShoreRivers: \$262,290 to improve stormwater practices at the Haentze waterfront on the Sassafras Natural Resource Management Area (District 36)

Montgomery County

Montgomery County: \$800,000 to construct Glenmont Forest Green Streets in the Rock Creek watershed designed to maximize co-benefits such as habitat enhancement and climate mitigation and adaptation (District 18)

Prince George's County

Prince George's County: \$1,750,000 to restore 3,438 feet in Bear Branch and tributaries (District 21)

City of Hyattsville: \$170,000 to construct a submerged gravel wetland along 42nd Place to help alleviate localized flooding while capturing and treating polluted stormwater runoff (District 22)

FY 2021 Awards

Worcester County

Worcester County: \$549,000 for the conversion of Bainbridge Pond from an amenity pond to a stormwater management wet pond. (District 37B)

Multiple

Maryland Forestry Foundation: \$1 million to implement upland tree planting and riparian forest buffer at 37 sites around the state with 209 acres of trees (multiple districts)

Patapsco Heritage Greenway: \$13,000 to plant 100 new native trees on park property in Baltimore and Howard counties to help reduce stormwater management issues (Districts 91, 9B, 12 & 44B)

Washington College: \$764,000 to install 206 acres of native grass and wildflowers and restore 20 acres of wetlands in priority areas of the upper and mid shore (Districts 36 & 37B)

Western Maryland Resource Conservation & Development: \$590,000 for 109 acres of native forest on private and public land in Washington and Allegany counties, including 10.8 acres of new riparian buffer (Districts 1B, 1C, 2A)

Western Maryland Resource Conservation & Development: \$895,815 for native forests on 177.25 acres of private and public land in Garrett, Allegany, and Washington Counties, including 61.5 acres of new riparian buffer and 78.5 acres of formerly mined lands (multiple districts)

ShoreRivers: \$2,747,220 for 3.2 acres of wetland creation, 13.5 acres of tree planting and 4,800 linear feet of stream restoration and floodplain reconnection in Queen Anne's and Kent County (District 36)

Delmarva Resource Conservation & Development: \$300,000 to assist five local governments on Maryland's

Eastern Shore to develop better stormwater management capacity and implement best management practices that help meet mandated goals for improved water quality (Districts 36 & 37B)

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

dnr.maryland.gov

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