

CBPO Program Update

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Chesapeake Bay Program

Science. Restoration. Partnership.



A Look at FY 2022

- American Rescue Plan Act (ARPA)
- Infrastructure Investment and Jobs Act
- Fiscal Year 2022 began on October 1, 2021
- Continuing Resolution through February 18 approved by Congress
- Appropriations and Reconciliation Bills
- Other Federal Agency Bills

National Priorities

- Climate Change
- Environmental Justice
- Infrastructure



AGENDA

01

Funding Vehicles

02

Some Details

03

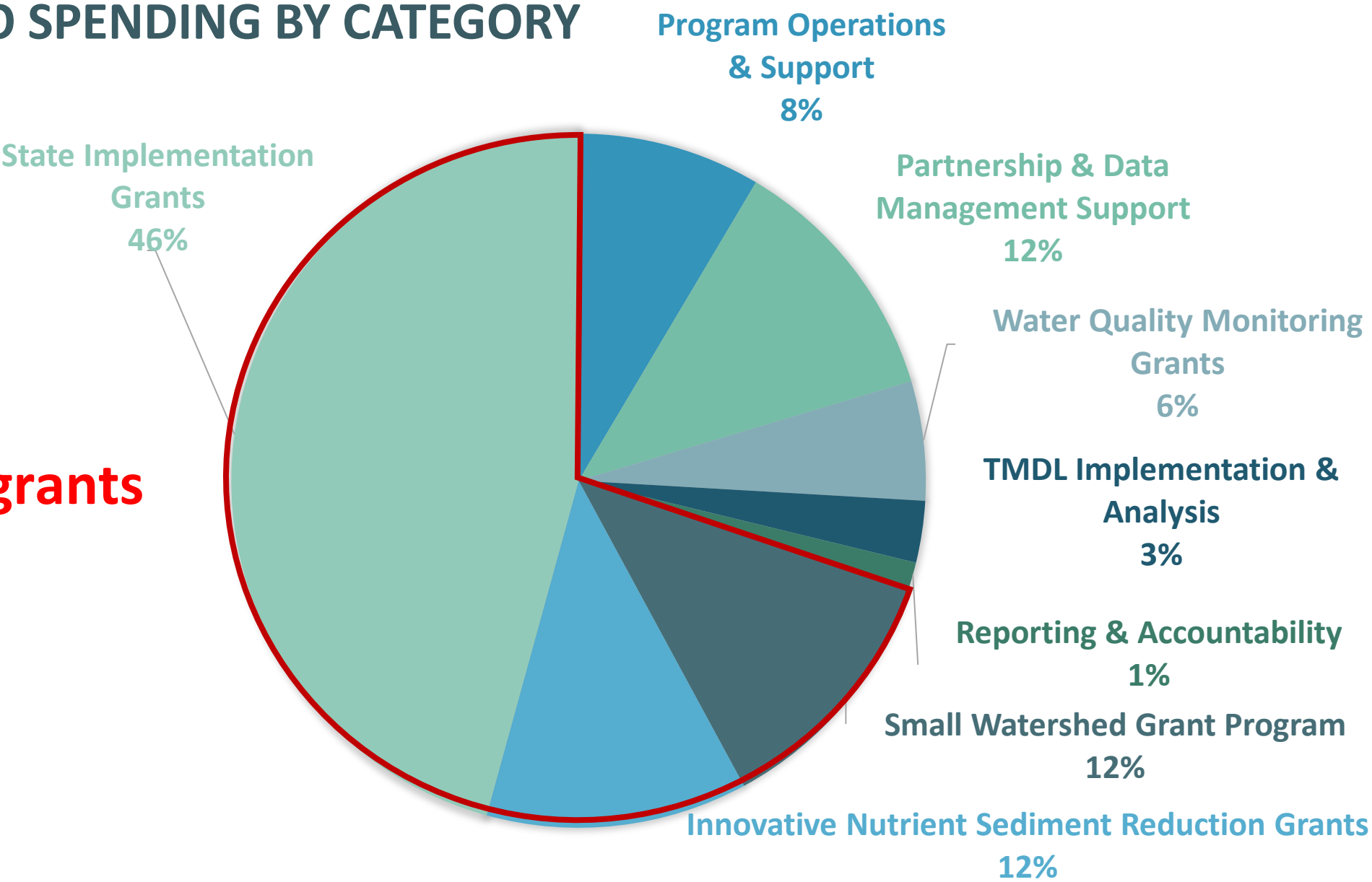
Where We Need to Focus

04

Next Steps

FY 21 CBPO SPENDING BY CATEGORY

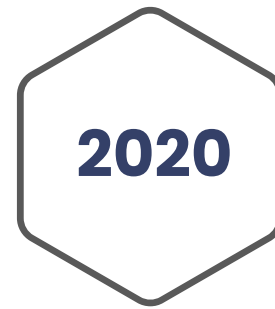
70% to grants



Innovative Nutrient & Sediment Reduction Grants

Small Watershed Grants

Annual Funding Amounts



\$12,000,000

INSR: \$6,000,000

SWG: \$6,000,000

\$12,000,000

INSR: \$6,000,000

SWG: \$6,000,000

\$18,000,000

INSR: \$9,000,000

SWG: \$9,000,000

\$19,250,000

INSR: \$9,625,000

SWG: \$9,625,000

CBIG

Chesapeake Bay Implementation Grants

Implementation of management mechanisms **for all Goals and Outcomes** established under the 2014 Chesapeake Bay Watershed Agreement, with emphasis on reduction of nutrient and sediment pollution.

20%: Pennsylvania, Virginia, Maryland
10%: Delaware, DC, New York, West Virginia



Allocation Formula

\$12.6 M



Funding Amount

CBRAP

Chesapeake Bay Regulatory and Accountability Program

Implementation of regulatory, accountability, assessment, compliance, and enforcement capabilities in support of the **Water Quality Goal** of the 2014 Watershed Agreement and Bay TMDL.

Base: All Bay Agreement signatories receive funds
Formula: **35%** for reductions through 2017. **65%** for 2018–2025 N load reduction commitments

\$11.2 M

Combined Funding Amount approximately \$23.8M

FY 2021 Most Effective Basins (MEB) Funding

- Formula is based on cost effectiveness and load effectiveness for nitrogen.
- By jurisdiction, the percentage of agricultural sector implementation proposed in each WIP and the resulting MEB funding allocation.
- EPA and CBP has focused additional \$1.25 in FY21 funds to underrepresented communities.

Jurisdiction	Phase III WIP Ag Nitrogen Commitment (million pounds)	Percent of Total Nitrogen Commitment Proposed	MEB Funding Allocations (\$)	Underrepresented Communities Allocation (\$)
DC	0.0	0.00%	-	\$125,000
DE	2.2	6.08%	\$ 364,540	\$125,000
MD	4.2	11.60%	\$ 695,940	\$250,000
NY	0.5	1.33%	\$ 79,536	\$125,000
PA	22.3	61.59%	\$ 3,695,112	\$250,000
VA	6.7	18.50%	\$ 1,110,191	\$250,000
WV	0.3	0.91%	\$ 54,681	\$125,000
Totals	36.2	100.00%	\$ 6,000,000	\$1,250,000

Local Government Implementation Funding

- EPA has provided an additional \$5 M to States for Local Government Implementation
- Intended for use by local entities, including:
 - Counties, municipalities, cities, towns, townships, federally recognized tribes, local public authorities or districts (including conservation districts or regional planning districts), organizations representing local governments, or watershed organizations that support local government implementation.
- Funding is to support WIPs
- Allocated using CBRAP grant allocation formula
- EPA can also provide this funding directly to local entities through competitive RFAs.

State Implementation Grants FY21 CBPO funding totals	Jurisdiction	Agency	FY21 funding	Grant program
	DC	DC Department of Energy and Environment	\$ 1,697,784	CBIG
		DC Department of Energy and Environment	\$ 726,481	CBRAP
	DE	DE Department of Natural Resources and Environmental Control	\$ 2,105,540	CBIG
		DE Department of Natural Resources and Environmental Control	\$ 774,913	CBRAP
	MD	MD Department of Natural Resources	\$ 3,497,918	CBIG
		MD Department of Agriculture	\$ 2,003,436	CBRAP
		MD Department of the Environment	\$ 1,923,131	CBRAP
	NY	NY Department of Environmental Conservation	\$ 1,838,366	CBIG
		NY Department of Environmental Conservation	\$ 919,663	CBRAP
	PA	PA Department of Environmental Protection	\$ 2,109,535	CBIG
		PA Department of Environmental Protection	\$ 3,463,237	CBRAP
		PA Fish and Boat Commission	\$ 492,484	CBIG
	VA	VA Department of Environmental Quality	\$ 4,019,477	CBIG
		VA Department of Environmental Quality	\$ 3,244,131	CBRAP
	WV	WV Department of Environmental Protection	\$ 1,536,424	CBIG
		WV Department of Environmental Protection	\$ 668,260	CBRAP

Watershed Agreement Outcomes

Sustainable Fisheries	Vital Habitats	Clean Water	Conserved Lands	Engaged Communities	Climate Change
<ul style="list-style-type: none">• Blue Crab Abundance & Management• Oyster Restoration• Fish Habitat• Forage fish	<p>Fish Passage</p> <p>Forest Buffers</p> <p>Stream Health</p> <p>Brook Trout</p> <p>SAV</p> <p>Tree Canopy</p> <p>Wetlands</p> <p>Black Duck</p>	<ul style="list-style-type: none">• Watershed Implementation Plans - 2017 & 2025• Water Quality Standards Attainment & Monitoring• Toxic Contaminants Research• Toxic Contaminants Policy and Prevention• Healthy Watersheds	<ul style="list-style-type: none">• Protected Lands• Land Use Options Evaluation• Land Use Methods & Metrics	<ul style="list-style-type: none">• Diversity• Public Access• Citizen Stewardship• Local Leadership• Sustainable Schools• Environmental Literacy Planning• Student MWEEs	<ul style="list-style-type: none">• Climate Monitoring and Assessment• Climate Adaptation

Watershed Agreement Outcomes with Targets and Timelines

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*Target and date set by CBP. Not in original Outcome language

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A close-up photograph of a blue crab on a muddy, wet shore. The crab's large claws are raised, showing their blue and white coloration. The crab's body is white with blue markings. The background is a blurred, muddy shoreline with some debris.

Sustainable blue
crab population

and a stable and productive
crab fishery



Restored native oyster
habitats and
population in 10
tributaries



A photograph of a lush green field with tall grasses and various plants. In the foreground, a single purple iris flower is in focus. The background shows rolling hills under a clear sky. The text "2 million acres of lands protected" is overlaid on the left side of the image.

2 million acres of
lands protected

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All practices in place to
achieve applicable
Water Quality Standards

An aerial photograph of a winding river. The river is a light blue color and flows from the top left towards the bottom right. On both sides of the river, there are dense, dark green forest buffers. To the left of the river, there are several large, rectangular agricultural fields in various shades of green and brown. A small bridge crosses the river in the lower center of the image. The overall scene depicts a landscape where natural forest buffers are integrated with agricultural land.

900 miles per year of
forest buffer restored

A photograph of a bird, possibly a heron or egret, in flight over a wetland. The bird is in the lower right foreground, with its wings spread wide, showing detailed feather patterns. The background is a dense field of tall, green grasses or reeds, slightly out of focus, with a warm, golden light filtering through the top of the frame, suggesting a sunrise or sunset. The overall scene conveys a sense of natural beauty and ecological health.

85,000 acres of wetlands restored

150,000 of degraded wetlands enhanced

Urban tree canopy
expanded by 2,400 acres



An underwater photograph showing a dense field of seagrass. The blades are long, thin, and green, swaying in the water. The background is a hazy, light green, suggesting the water surface and sunlight filtering through. The overall scene is a close-up, looking down into the seagrass bed.

130,000 acres of SAV

A photograph showing a person's hands holding a small brook trout over a flowing stream. The person is wearing a blue long-sleeved shirt. The stream has a rocky bed and a small waterfall in the background. The text "8% increase in brook trout occupied habitat" is overlaid on the bottom left of the image.

8% increase in brook trout
occupied habitat

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Outcome Dashboard

To Accompany the Progress Report

Summary (31 original outcomes, 29 remaining)

- On Course: 12
- Off Course: 11
- Uncertain: 6

Strengths

- Quick Program snapshot
- Can be used to galvanize action
- Can be used to prioritize where collective effort is spent



Outcome Attainability

November 23, 2021



Outcomes with targets and timeframes

SUSTAINABLE FISHERIES GOAL

SHORT TERM PROGRESS
NO CHANGE

LONG TERM
ON COURSE

[Blue Crab Abundance](#)

Maintain crab population at 215 million adult females. Refine targets through 2025 based on best science.

SHORT TERM PROGRESS
INCREASE

LONG TERM
ON COURSE

[Oyster Restoration](#)

Restore native habitat and populations in 10 tributaries by 2025.

VITAL HABITATS GOAL

SHORT TERM PROGRESS
NO CHANGE

LONG TERM
OFF COURSE

[Brook Trout](#)

Restore and sustain brook trout populations with 8% increase in occupied habitat by 2025.

SHORT TERM PROGRESS
INCREASE

LONG TERM
ON COURSE

[Fish Passage](#)

By 2025 open an additional 132 miles every two years to fish passage.

SHORT TERM PROGRESS
DECREASE

LONG TERM
OFF COURSE

[Forest Buffers](#)

Restore 900 miles of riparian forest buffers per year and conserve existing buffers until at least 70% of riparian areas are forested.

SHORT TERM PROGRESS
NO CHANGE

LONG TERM
UNCERTAIN

[Stream Health](#)

Improve health and function of 10% of stream miles above the 2008 baseline.

SHORT TERM PROGRESS
DECREASE

LONG TERM
OFF COURSE

[Submerged Aquatic Vegetation \(SAV\)](#)

90,000 acres by 2017; 130,000 acres by 2025; ultimate goal of 185,000 acres.

SHORT TERM PROGRESS
NO CHANGE

LONG TERM
OFF COURSE

[Tree Canopy](#)

Expand urban tree canopy by 2,400 acres by 2025.

SHORT TERM PROGRESS
INCREASE

LONG TERM
OFF COURSE

[Wetlands](#)

Create or reestablish 85,000 acres of tidal and non-tidal wetlands and enhance function of an additional 150,000 acres of degraded wetlands by 2025.

SHORT TERM PROGRESS
INCREASE

LONG TERM
OFF COURSE

[Black Duck](#)

By 2025, restore, enhance, and preserve wetland habitats that support a wintering population of 100,000 black ducks. Refine population targets through 2025 based on best available science.

Detailed Outcome Summaries

Strengths

- Provides more detail than dashboard
- Easy access for staff briefings
- Opportunity to identify known impediments
- Opportunity to identify path forward
- Characterize quantitative and qualitative outcomes

OUTCOME: Continually increase finfish and shellfish habitat and water quality benefits from restored oyster populations. Restore native oyster habitat and populations in 10 tributaries by 2025 and ensure their protection.

PROGRESS AS OF 2021: The [Oysters Outcome](#) is on course. Three (Harris Creek, Lafayette River and Little Choptank River) of the 10 tributaries scheduled for restoration have been completed and formally recognized as restored. Three more were completed in 2021 (Lynnhaven, Piankatank and Tred Avon rivers) and will be formally recognized later on this year. Planning, financial resources and construction schedules are in place for the remaining four tributaries (Great Wicomico, Manokin, Lower York and Upper St. Mary's rivers). Additionally, the Eastern Branch of the Elizabeth River in Virginia has been restored to the same standard as the original ten tributaries. This outcome is expected to be met by 2025.

BACKGROUND: The [Executive Order 13508 Strategy for Protecting and Restoring the Chesapeake Bay Watershed](#) included a goal to restore oyster populations in 20 tributaries of the Chesapeake Bay by 2025. In response to this goal, the Sustainable Fisheries Goal Implementation Team established the Oyster Metrics Workgroup to develop common Bay-wide restoration goals, success metrics and monitoring and assessment protocols for sanctuary reefs including progress toward achieving a sustainable oyster population and ultimately increasing levels of ecosystem services. Based on experience with current restoration implementation and resource availability, experts determined that an outcome of restoring native oyster habitat and populations in 10 tributaries by 2025 was a more appropriate goal to include in the *Chesapeake Bay Watershed Agreement*.

BASELINE: One tributary (Harris Creek) had been identified, but not yet restored, for large-scale oyster restoration by the time the most recent *Watershed Agreement* was signed in 2014.

DATA SOURCE: The Maryland and Virginia Oyster Restoration Interagency Teams are responsible for developing Oyster Restoration Tributary Plans for each waterway, in consultation with partners and scientists. These plans have been developed for all 10 selected tributaries and include information such as target reef acreage to be constructed and project costs.

Restoration is documented in annual reports developed by the Maryland and Virginia Oyster Restoration Interagency Teams and produced the auspices of the Sustainable Fisheries Goal Implementation Team.

Take Home Message

- We're doing great on 12 outcomes, lets celebrate and keep working to achieve them.
- Focus on water quality and rapidly accelerate progress on wetland and forest buffers. These will help improve multiple outcomes such as brook trout, black duck, climate, fish habitat, and water quality.
- We have challenges with some outcomes, we understand these and are continuing to work on resolving them at the Management Board. Maintain focus and report progress regularly, beginning with the State of the Program Report.
- We have the opportunity now with increased funding available to accelerate the pace of implementation.

For More Information:

www.chesapeakebay.net

www.chesapeakeprogress.com



Chesapeake Bay Program

Science. Restoration. Partnership.

