

CHESAPEAKE BAY RESTORATION SPENDING CROSSCUT

Report to Congress

Office of Management and Budget

December 2021

The Chesapeake Bay Watershed



Chesapeake Bay Restoration Spending Crosscut

This report represents an accounting of Federal and, to the extent available, State, funding for Chesapeake Bay restoration activities. This report is provided to Congress in response to Section 3 of the Chesapeake Bay Accountability and Recovery Act (CBARA) of 2014.

The Fiscal Year (FY) 2022 Budget recognizes the importance of Chesapeake Bay restoration activities and includes a request of approximately \$561 million for high priority programs and projects in the Chesapeake Bay Watershed.

This crosscut presents information on Federal funding from FY 2019 enacted through the FY 2022 Budget for Chesapeake Bay restoration work in the following formats for those Federal agencies on the Federal Leadership Committee for the Chesapeake Bay:

- Total Federal funding by agency
- Agency funding details

As directed in CBARA, the Office of Management and Budget (OMB) also requested Chesapeake Bay restoration funding data from the Chesapeake Bay Watershed States—Maryland, Virginia, Pennsylvania, Delaware, West Virginia, New York, and the District of Columbia. OMB received tabular data from all of the states and this report includes the submitted state data. OMB greatly appreciates but cannot verify the completeness or accuracy of the state data. Further, because the state data includes funding received from Federal sources, there may be double-counting between the state and Federal tables.

It is important to note that in many instances the funding numbers shown are extrapolated from past funding provided to the region or estimated based on the portion of the program focused directly on Chesapeake Bay restoration activities. The funding ultimately provided to Chesapeake Bay watershed efforts may differ from these estimates.

A few other funding notes are necessary. All Federal and State dollars are reported in thousands, and rounding errors may occur. The data request for both Federal agencies and States excluded programs and projects that received less than \$100,000 in funding, though all data received is included in the tables below. In addition, the current year (FY 2021) funding only reflects data through the second quarter of the fiscal year. Depending on the program, fiscal outlays may be weighted toward the third or fourth quarters. As a result, second quarter numbers reflect only a partial snapshot of program execution.

Federal Data

Table 1--Federal Agency Totals^{1 2}

(Budget authority in thousands)	FY 2019			FY 2020			FY 2021			FY 2022
	Operating Level	Obligations	Outlays	Operating Level	Obligations	Outlays	Operating Level	Obligations Through Q2	Outlays Through Q2	President's Budget
Department of Agriculture	174,098	211,176	212,492	158,970	238,403	222,102	162,873	77,563	82,268	202,322
Department of Defense (non-Army Corps)	50,759	65,560	80,815	53,990	127,889	108,476	57,547	101,787	51,768	20,427
Department of Commerce	22,186	21,266	21,954	24,908	23,769	23,747	21,336	9,541	8,463	22,096
Department of Homeland Security	0	0	385	0	2,000	717	2,055	0	445	400
Department of the Interior	21,089	19,854	19,625	21,420	17,804	14,877	20,878	4,666	5,986	21,559
Department of Transportation	0	19,460	17,825	0	29,984	25,060	0	24,590	27,973	0
Environmental Protection Agency	193,420	216,399	201,231	228,664	230,611	168,465	233,636	18,091	128,456	252,956
Army Corps of Engineers	43,137	27,494	67,461	27,539	9,082	44,446	22,885	19,894	8,536	41,126
Total, All Agencies	504,689	581,209	621,788	515,491	679,542	607,890	521,210	256,132	313,895	560,886

¹ In all tables, funding amounts are rounded to the nearest thousand. Rounding errors may result.

² Prior year reported funding levels may have changed from previous reports due to availability of better data, error corrections, or classification changes for projects.

Table 2—Department of Agriculture

	FY 2019			FY 2020			FY 2021			FY 2022
	Operating Level	Obligations	Outlays	Operating Level	Obligations	Outlays	Operating Level	Obligations Through Q2	Outlays Through Q2	President's Budget
(Budget authority in thousands)										
Agricultural Research Service										
Water Availability and Water Management	5,418	5,418	5,418	5,690	5,690	5,690	5,762	5,762	5,762	5,762
Climate Change, Soils, and Emissions	5,973	5,973	5,973	6,123	6,123	6,123	6,169	6,169	6,169	6,169
Pasture, Forage and Rangeland Systems	413	413	413	413	413	413	417	417	417	417
Agricultural System Competitiveness & Sustainability	1,304	1,304	1,304	1,304	1,304	1,304	1,316	1,316	1,316	1,316
Natural Resource Conservation Service										
Conservation Operations	15,000	15,135	12,411	15,000	15,699	14,473	15,000	5,936	6,588	15,500
Agricultural Conservation Easement Program (ACEP)	4,700	5,875	4,171	4,700	5,919	3,907	4,700	0	1,300	5,250
Agricultural Management Assistance (AMA)	500	631	1,667	500	1,253	2,119	500	0	204	550
Chesapeake Bay Watershed Program (CBWP)	9,475	561	1,317	0	880	1,317	0	0	1	0
Conservation Reserve Program (CRP)	3,800	3,517	3,306	3,800	3,059	2,700	3,800	619	1,231	3,800
Conservation Stewardship Program (CStP)	9,900	21,985	26,982	9,900	45,616	46,689	9,900	4,224	4,707	10,000
Environmental Quality Incentives Program (EQIP)	63,900	71,848	107,357	63,900	61,096	98,478	63,900	710	16,036	65,500
Farm and Ranch Lands Protection Program (FRPP)	0	0	0	0	0	0	0	0	0	0
Regional Conservation Partnership Program (RCPP)	3,200	1,707	1,946	3,200	1,051	1,083	3,200	0	0	2,000
Wetlands Reserve Program (WRP)	0	354	730	0	51	269	0	0	0	0
Wildlife Habitat Incentives Program (WHIP)	0	0	109	0	56	143	0	0	0	0
Office of the Chief Economist										
Environmental Market Development	176	88	88	178	89	89	204	102	102	200

Animal and Plant Health Inspection Service										
Wildlife Services, Virginia-Federal Cooperative Funding	16	5	5	53	53	53	57	57	57	450
Wildlife Services, Maryland-Federal Cooperative Funding	1,545	718	718	1,500	1,322	1,322	1,500	607	607	1,500
National Institute of Food and Agriculture										
Hatch Act	921	166	166	921	921	921	921	921	921	1,172
Evan-Allen	744	126	126	859	859	859	936	936	936	1,191
Agriculture and Food Research Initiative	2,437	682	682	2,496	2,496	2,496	2,554	2,554	2,554	4,110
Other Grants	1,560	-	-	1,560	1,560	1,560	1,560	1,560	1,560	1,560
Farm Service Agency										
Conservation Reserve Program	33,700	26,901	28,187	33,700	26,921	26,921	33,700	25,023	25,023	33,700
Rural Development										
Rural Utilities Service Water and Environmental Programs ¹	0	38,353	0	0	52,799	0	0	13,873	0	42,175
Forest Service^{2,3}										
NFS	415	415	415	417	417	417	1,111	1,111	1,111	0
LWCF - NFS	5,000	5,000	5,000	455	455	455	415	415	415	0
SPF Cooperative Lands ⁴	946	946	946	1,101	1,101	1,101	1,216	1,216	1,216	0
LWCF - Forest Legacy ⁵	1,555	1,555	1,555	0	0	0	2,835	2,835	2,835	0
R&D ⁶	1,500	1,500	1,500	1,200	1,200	1,200	1,200	1,200	1,200	0
Total, USDA	174,098	211,176	212,492	158,970	238,403	222,102	162,873	77,563	82,268	202,322

¹ The Rural Utilities Service, Water and Environmental Programs (WEP) does not receive an appropriation, earmark, set-aside, or any other form of funding specific to the Chesapeake Bay Watershed (Watershed). From time-to-time WEP may make loans and/or grants that benefit borrowers who are located within the Watershed, but the Agency does not have policies or procedures that identify or direct the use of monies for the benefit of the Watershed. WEP is reporting the BA for loans and grants that were made in the Watershed whether or not they had a direct impact on assisting the cleanup. Absent guidance, WEP estimated what areas/counties might be considered part of the Watershed. In FY19, the program carried a negative subsidy rate, so figures only reflect grant monies. The majority of obligations occur in August and September, so the FY21 number is reflective of the total obligations anticipated. WEP has no mechanism to track the outlays (disbursements) for projects within said areas, so the respective columns are reported as \$0.

² The Forest Service generally obligates and outlays the funding in same year it is received so for the purposes of this report, the obligations and outlays stay the same.

³ NFS amounts include all Watershed, Wildlife and Fish restoration activities, Non-native Invasive Species treatments and Prescribed burning to improve habitat as it supports Chesapeake Bay Agreements. Reported amounts may include: Salary for permanent employees, fleet vehicles, or travel.

⁴ State and Private Forestry Cooperative Lands programs and projects directly associated with Chesapeake restoration, including landscape scale restoration grants and \$100,000 of subgrants each year through the National Fish and Wildlife Foundation.

⁵ LWCF-Forest Legacy projects are not chosen until January each year. The list is confirmed when the budget is passed by Congress. Zeros indicate that there were no approved projects in those fiscal years within the Chesapeake Bay watershed.

⁶ Research and Development funding is an estimate of annual expenditures on Chesapeake Bay activities directly and indirectly associated with Chesapeake restoration.

Table 3- Department of Defense

(Budget authority in thousands)	FY 2019			FY 2020			FY 2021			FY 2022
	Operating Level	Obligations	Outlays ¹	Operating Level	Obligations	Outlays	Operating Level	Obligations Through Q2 ²	Outlays Through Q2	President's Budget ³
Services ⁴	50,759	65,560	80,815	53,990	127,889	108,476	57,547	101,787	51,768	20,427
Total, DOD	50,759	65,560	80,815	53,990	127,889	108,476	57,547	101,787	51,768	20,427

¹ DoD (Services) FY2019 - FY2021 Outlays are based on current DoD O&M Defense Wide Outlay Rates over a typical 5-year outlay period.

² DoD (Services) FY2021 Obligation is an average based on FY2016 - FY2020 obligations.

³ DoD (Services) funding amount for the FY2022 President's Budget is the based on projections for that fiscal year for the reasons identified in Footnote 4.

⁴ DoD (Services) does not have a direct line item for Chesapeake Bay funding for restoration/protection. Reported budget amounts are based on compliance with environmental protection requirements in the Chesapeake Bay watershed and are part of the larger DoD Operations and Maintenance budget. Reported amounts are based on annual data collected from each DoD Component. Example environmental protection projects include stormwater pollution prevention, stormwater project design and management, water quality monitoring, wastewater treatment plant upgrades, integrated natural resources planning and management, environmental outreach and stewardship activities, and land conservation.

Table 4- Department of Commerce

(Budget authority in thousands)	FY 2019			FY 2020			FY 2021			FY 2022
	Operating Level	Obligations	Outlays	Operating Level	Obligations	Outlays	Operating Level	Obligations Through Q2	Outlays Through Q2	President's Budget
National Oceanic and Atmospheric Administration										
Coastal Science, Assessment, Response and Restoration	3,363	3,142	3,142	2,790	2,580	2,580	2,580	1,413	1,413	2,600
Competitive Research ¹	2,293	2,293	2,293	2,357	2,357	2,357	1,242	1,242	1,242	1,500
Coastal Zone Management Grants ²	2,261	2,261	2,261	1,720	1,720	1,720	2,106	0	0	2,910
Title IX Fund ²	0	0	0	2,437	2,437	2,437	TBD	0	0	TBD
National Estuarine Research Reserve System ²	803	803	803	905	905	905	769	0	0	1,148
Habitat Conservation and Restoration	6,239	5,540	6,291	6,326	5,404	5,509	6,312	1,458	2,223	5,611
National Sea Grant College Program	4,460	4,460	4,576	5,533	5,533	5,743	5,533	4,161	2,072	5,533
Office of Education: Bay Watershed Education and Training (BWET)	2,767	2,767	2,588	2,840	2,833	2,496	2,794	1,267	1,513	2,794
Total, Commerce	22,186	21,266	21,954	24,908	23,769	23,747	21,336	9,541	8,463	22,096

¹ NOAA began tracking funds in the Competitive Research PPA separately for the FY21 data call.

² NOAA began tracking these PPAs for the FY22 data call which included FY19 obligations.

Table 5- Department of Homeland Security

(Budget authority in thousands)	FY 2019			FY 2020			FY 2021			FY 2022
	Operating Level	Obligations	Outlays	Operating Level	Obligations	Outlays	Operating Level	Obligations Through Q2	Outlays Through Q2	President's Budget ¹
Department of Homeland Security										
TRACEN Yorktown & Base Portsmouth- Sanitary Sewer System I&I Survey/Study ²	0	0	0	0	0	492	0	0	0	0
TRACEN Yorktown- Parking Lot Upgrades with Stormwater BMPs ³	0	0	0	0	0	0	0	0	0	400
Base Portsmouth- Special Requirements Total Maximum Daily Load Water Program ⁴	0	0	385	0	0	0	1,300	0	445	0
Coast Guard Yard- TMDL Stormwater Program ⁵	0	0	0	0	0	0	755	0	0	0
Coast Guard Yard- ShipLift Treatment System	0	0	0	0	2,000	225	0	0	0	0
Total, DHS	0	0	385	0	2,000	717	2,055	0	445	400

¹ Projects planned for execution in FY 2022.

² \$1.087M obligated in FY 2017, outlays of \$492K as of Q2 FY2020. Proposed sanitary sewer repairs expected to be design complete in 2022 and awarded in FY23.

³ Next phase of project delayed from FY 2021 to FY 2022; obligation still expected in FY 2022. Project scope is to install Bio-retention units, vegetated swale, and infiltration trench.

⁴ \$1.3M planned in FY 2021/FY2022 for next phase of project.

⁵ \$755K planned in FY 2021/FY2022 for next phase of project.

Table 6- Department of the Interior

(Budget authority in thousands)	FY 2019			FY 2020			FY 2021			FY 2022
	Operating Level	Obligations	Outlays	Operating Level	Obligations	Outlays	Operating Level	Obligations Through Q2	Outlays Through Q2	President's Budget
U.S. Fish and Wildlife Service										
Resource Management	13,439	13,439	13,439	13,439	10,601	8,744	13,439	3,360	3,360	13,439
<i>Ecological Services</i>	3,180	3,180	3,180	3,180	2,415	1,697	3,180	795	795	3,180
<i>National Wildlife Refuge System</i>	4,968	4,968	4,968	4,968	3,774	3,651	4,968	1,242	1,242	4,968
<i>Habitat Conservation</i>	3,554	3,554	3,554	3,554	2,699	1,896	3,554	889	889	3,554
<i>Fisheries & Aquatic Resource Conservation</i>	1,737	1,737	1,737	1,737	1,713	1,500	1,737	434	434	1,737
Land Acquisition	1,000	510	435	0	0	0	0	0	0	0
Natural Resource Damage Assessment and Restoration	739	739	739	739	738	620	739	185	185	739
Wildlife Fire	563	563	563	563	422	300	646	162	162	646
Reimbursable Services	480	480	480	480	320	188	480	120	120	480
National Park Service										
Operation of the National Park System-National Trails	1,365	1,114	686	1,380	1,143	721	1,480	308	767	1,495
Operation of the NPS Field Offices & Associated Areas	488	415	449	496	755	471	498	223	236	1,009
Operation of the National Park System- Projects	28	28	78	192	222	134	100	9	66	692
Nat'l Recreation & Preservation-Ches. Gateways & Water Trails	2,020	1,998	1,619	3,000	2,976	1,905	3,000	171	1,053	3,009
Construction - Management Planning	28	268	252	192	327	389	496	129	38	50
Land Acquisition & State Assistance-Stateside Grants ¹	939	300	885	939	300	1,405	0	0	0	0
Total, DOI	21,089	19,854	19,625	21,420	17,804	14,877	20,878	4,666	5,986	21,559

¹ The funding source for this program was transitioned from discretionary to mandatory in FY 2021 as a result of the Great American Outdoors Act.

Table 7- Department of Transportation

(Budget authority in thousands)	FY 2019			FY 2020			FY 2021			FY 2022
	Operating Level	Obligations	Outlays	Operating Level	Obligations	Outlays	Operating Level	Obligations Through Q2	Outlays Through Q2	President's Budget
FHWA Apportioned STBG-eligible Funding Obligated in support of MD's Watershed Implementation Plan ¹	0	19,460	17,825	0	29,984	25,060	0	24,590	27,973	0
Total, Transportation	0	19,460	17,825	0	29,984	25,060	0	24,590	27,973	0

¹ Since each State determines how STBG-eligible apportioned funding will be utilized, neither specific operating levels nor specific President's Budget projects are identified for Chesapeake Bay Restoration activities.

Table 8- Environmental Protection Agency

(Budget authority in thousands) ¹	FY 2019			FY 2020			FY 2021			FY 2022
	Operating Level	Obligations	Outlays	Operating Level	Obligations	Outlay	Operating Level	Obligations Through Q2	Outlays Through Q2	President's Budget
Environmental Protection Agency										
Program Operations & Support	5,113	4,356	4,387	5,169	5,313	5,320	6,958	2,728	2,725	7,676
Partnership & Data Management Support	9,118	13,429	11,446	13,000	10,526	10,990	10,135	918	5,447	11,000
WQ Monitoring Grants	4,270	4,956	4,355	5,240	4,935	4,726	5,000	3,079	2,546	5,000
TMDL Implementation & Analysis	3,000	1,766	1,650	2,017	1,412	1,887	1,777	456	1,006	1,770
Reporting & Accountability	2,754	3,014	2,186	2,612	2,628	2,937	1,920	1,682	2,631	1,920
Permit Review and Rule Development, Guidance & Implementation	4,445	4,418	3,075	916	5,587	3,718	3,844	805	1,180	3,844
Enforcement	1,357	1,849	2,213	1,672	1,596	1,417	1,794	673	886	1,807
Small Watershed Grant Program	6,000	6,000	6,256	9,000	9,000	5,596	9,625	0	1,855	9,625
Innovative Nutrient Sediment Reduction Grants	6,000	6,000	4,216	9,000	9,000	5,599	9,625	0	2,244	9,625
State Implementation Grants	30,943	26,987	30,631	36,374	37,692	24,864	36,822	7,750	15,073	38,233
Non-Point Source Grants: Improve Water Quality-Watershed (CWA Sec 319)	8,371	8,420	7,332	8,700	8,704	7,524	8,908	0	2,853	9,083
Pollution Control Grants (CWA Sec 106) ^{2,3}	11,172	11,295	11,471	11,141	10,624	10,461	11,500	0	1,578	11,638
Pollution Control Monitoring (CWA Sec 106)	861	866	756	762	762	1,031	0	0	159	0
Infrastructure Assistance Grants: Clean Water SRF	100,016	123,045	111,257	123,062	122,832	82,395	122,814	0	88,276	137,945
Sewer Overflow and Stormwater Reuse Municipal Grants (OSG) program assistance ^{4,5,6}	0	0	0	2,039	0	0	2,914	0	0	3,790
Total, EPA	193,420	216,399	201,231	228,664	230,611	168,465	233,636	18,091	128,456	252,956

¹ 2019, 2020, and 2021 Obligations and Outlays as of 4-28-2021, however, in order to include SRBC and ICPRB numbers and exclude DRBC numbers, grant tracking numbers as of 5/4/2021 were used.

² The Section 106 Pollution Control Grants include Susquehanna River Basin Commission (SRBC) and Interstate Commission for the Potomac River Basin (ICPRB) because these commissions operate entirely in the Chesapeake Bay Watershed. For the FY 2022 President's Budget, Delaware River Basin Commission (DRBC) estimates could not be removed, since allocation proposals are made at the regional level. However, FY 2018-FY 2020 DRBC allocations were approximately \$600K per year and were \$620K in FY 2021. NY allocations could not be estimated for the FY 2022 President's Budget however, FY 2018-FY 2021 NY estimates were approximately \$965K per year.

³ Operating plans are not provided for Section 106 monitoring funds. Section 106 monitoring funds are reprogrammed after operating plans are loaded into the Agency's budget system.

⁴ Fiscal year outlays can be greater than the OPP and OBLIG as expenditures occur from carryover funds and prior year obligations

⁵ These funding programs are statewide. In order to determine the Chesapeake Bay funding levels, the statewide program funding was multiplied by percentage of the land area within the Chesapeake Bay watershed. FY 2019, FY 2020 and FY 2021 funding were calculated using a pro rata for the percent of the state within the Chesapeake Bay watershed to determine program funding levels, then the state level estimates were aggregated

for a watershed total. The FY 2022 President's Budget estimate was calculated by multiplying the regional funding by the percentage of land area within the Chesapeake Bay watershed at a regional level for Region 3 (48.67%) since state-by-state allocations are unavailable.

⁶ As part of America's Water Infrastructure Act of 2018, Congress amended Section 221 of the Clean Water Act thereby creating this new water infrastructure grant program. Headquarters will be reprogramming the funds to R3 for PA and DC only for award in FY 2021, and the other States in FY 2022.

Table 9- Army Corps of Engineers

(Budget authority in thousands)	FY 2019			FY 2020			FY 2021			FY 2022
	Operating Level	Obligations	Outlays	Operating Level	Obligations	Outlays	Operating Level	Obligations Through Q2	Outlays Through Q2	President's Budget
Army Corps of Engineers¹										
Investigations (Studies/Design)										
Anacostia Watershed Restoration, Prince George's County	0	9	12	1,940	101	101	0	9	9	0
Chesapeake Bay Comprehensive Plan, MD, PA & VA ²	133	128	210	0	24	38	0	0	0	0
Eastern Shore, Mid Chesapeake Bay Island, MD	4,259	122	62	500	1,143	1,203	382	1,044	946	0
Construction										
Anacostia Watershed Restoration, Montgomery County (Continuing Authorities Program, Section 206) ³	0	0	0	0	0	0	200	27	27	0
Anacostia Watershed Restoration, Prince George's County	0	0	0	0	0	0	0	0	0	30,000
Chesapeake Bay Oyster Recovery, MD & VA ⁴	0	577	363	5,000	367	586	5,000	3,940	353	3,880
Lynnhaven River Basin, VA	14,920	210	176	0	3,433	467	0	200	652	0
Paint Branch Fish Passage, MD (Continuing Authorities Program, Section 206)	0	286	25	0	-67	179	0	60	32	0
Poplar Island, MD	20,950	23,900	63,649	17,300	1,807	39,733	14,500	13,490	5,197	4,200
Other										
Environmental Stewardship- multiple projects	2,778	2,164	2,866	2,187	1,988	1,853	2,803	949	1,144	3,046
Coordination with Other Water Resources Agencies ⁵	97	98	98	612	286	286	0	175	176	N/A ⁶
Total, USACE	43,137	27,494	67,461	27,539	9,082	44,446	22,885	19,894	8,536	41,126

¹ Mid-Bay and Poplar Island have not been included in prior year cross-cuts data. Data is included in this table.

² Chesapeake Bay Comp plan: FY19 published numbers includes WP funds. Not in the FY19 budget.

³ Anacostia Watershed Restoration, Montgomery County transitions to the CAP program. Data is reported for CAP.

⁴ Chesapeake Bay Oyster Recovery FY21 numbers include WP funds. Not in the FY21 budget.

⁵ Coordination with Others: \$250K in FY20 is from the PBUD. An additional \$362k is from a Congressional reprogramming for a total of \$612k as reported in the FY22 J Sheet.

⁶ The FY 2022 Budget includes \$450,000 for multiple programs. The specific allocation of funds to support Chesapeake Bay Restoration has not yet been determined.

Table 10—Army Corps of Engineers—Project Detail

(Budget authority in thousands)	FY 2022 Budget	Description	Status	Authorized Funding Level ^{1, 2}
Army Corps of Engineers				
Anacostia Watershed Restoration, Prince George's County, MD	30,000	The project was authorized in Public Law 116-260, Consolidated Appropriations Act, 2021, Division AA, Water Resources Development Act of 2020, Section 401(5)(9). The project consists of restoring in-stream physical habitat in the selected stream reaches and enhancing aquatic ecosystem resilience by restoring fish passage and longitudinal connectivity of in-stream habitat.	Project is in Construction Phase	54,209
Chesapeake Bay Oyster Recovery, MD & VA	3,880	Restore Oyster habitat in the Chesapeake Bay MD and VA	Project is in Construction Phase	100,000
Eastern Shore, Mid Chesapeake Bay Island, MD	0	The project consists of constructing ecosystem restoration projects at Barren and James Islands in the Chesapeake Bay. It will be accomplished by reconstructing both islands using dredged material from the approach channels of the Baltimore Harbor and Channels Navigation project once Poplar Island is complete.	Project is currently in Design and be ready to move into Construction in 2022.	5,878
Poplar Island, MD	4,200	The project was authorized in Section 537 of P.L. 104-303 (WRDA 1996), as amended by: Section 318 of P.L. 106-541 (WRDA 2000); Section 3087 of P.L. 110-114 (WRDA 2007) and Sections 7003 and 1030 (d) (2) of P.L. 113-121 (WRRDA 2014). Reconstruct Poplar Island to its approximate size in 1847 of 1,140 acres using dredged material from the approach channels of the Baltimore Harbor and Channels Navigation project. The project will create tidal marsh wetlands and upland habitat critically needed in the Chesapeake Bay.	This project is in Construction phase	1,723,543

Environmental Stewardship	3,046	The USACE is the steward of the lands and waters at Corps water resources projects and has a mission for Environmental Stewardship. The financial data shown in this table is a roll-up of data for the Environmental Stewardship business line within the Operation and Maintenance account, and represents multiple projects (all projects within the Baltimore District) that are budgeted and receive budget authority at the project level within the Chesapeake Bay watershed.	This project is in the Operation and Maintenance Phase	N/A
Lynnhaven River Basin, VA	0	The Lynnhaven River Basin, VA project was authorized by Section 7002 (5)(10) of the Water Resources Reform and Development Act of 2014 (PL 113-121). This project is in the construction phase, and its purpose is aquatic ecosystem restoration and includes restoration of wetlands, submerged aquatic vegetation (SAV), and restoration of hard reef habitat. The Recommended Plan, as described in the Final Feasibility Report, consists of 94 acres of SAV restoration, 38 acres of wetlands restoration, and 31 acres of reef habitat placement using hard reef structures. These plans would support restoration of the watershed and promote the strategies and objectives of Executive Order 13508 for Chesapeake Bay Protection and Restoration. This project was first funded in FY 2018 as a new start and was funded to completion in FY 2019. This project is cost-shared 65 percent Federal and 35 percent non-Federal (City of Virginia Beach, VA).	This project is in the Construction Phase	35,110

¹ The authorized funding level amounts shown in this table are the maximum project cost limit for Lynnhaven River Basin, VA and the program cost limit for the Chesapeake Bay Oyster Recovery, MD & VA. Environmental Stewardship investments do not have authority cost limits.

² Authorized funding level for Eastern Shore, Mid Chesapeake Bay Island, MD is the latest PED estimate, and funding level for Poplar Island is the current maximum project cost limit (Section 902).

State Data

Table 11--Delaware, State Programs

(Budget authority in thousands)	FY 2019	FY 2020	FY 2021	FY 2022
Department of Natural Resources and Environmental Control				
Conservation Cost Share	750	750	750	750
Department of Agriculture				
Cover Crop	0	0	1,450	350
Total, Delaware, State Programs	750	750	2,200	1,100

Table 12--Delaware, Federal Funds Received

(Budget authority in thousands)	Federal Agency	Federal Program	FY 2019	FY 2020	FY 2021
Department of Natural Resources and Environmental Control					
Chesapeake Bay Implementation Grant	EPA	CWA Section 117	812	790	775
Chesapeake Bay Regulatory and Accountability Grant Program	EPA	CWA Section 117	1,616	1,981	2,106
Total, Delaware, Federal Funds Received			2,428	2,770	2,880

Table 13—District of Columbia, State Programs

(Budget authority in thousands)	FY 2019	FY 2020	FY 2021	FY 2022
Department of Energy and the Environment (DOEE)				
SRF Clean Water Construction (EVCA, EVSD, SRF)	3,416	414	579	1,040
Nonpoint Source Program (EVNI)	518	360	371	1,257
Chesapeake Bay Program (EVCB, EVRA)	3,732	2,604	1,281	3,068
Water Pollution Control Program (EVWP, EVWQ)	483	285	912	1,497
Floodplain Management Program (EVFC, EVFE, CAPSSE, CTPFEM, CTPX, CAPX)	31	15	70	273
Fisheries Management and Aquatic Education (EVFS, MB, WS, AE, FM,SP, AR, TS, WT, CV, AD, AC)	760	462	828	1,567
Fishing License Program (603) not match	0	0	25	68
MS4 Program Operating (654) not match	14,533	6,268	6,035	12,767
Stormwater and Erosion/Sediment Control (634, 646) not match	3,394	2,509	2,088	4,049
Anacostia Fund Operating (670) not match	2,539	596	555	2,215
MS4 Program - Capital (SWM05C) not match	432	433	275	435
Anacostia Fund - Capital (BAG04C) not match	364	144	275	175
Anacostia Sediment Study (HMRHMC)	6,453	4,888	3,924	5,000
Fort Dupont Restoration - (EVFD)	0	0	235	0
Source Reduction (EVSR, EVPO)	6	0	26	0
Green Infrastructure Maintenance (ARPA Funding)	0	0	0	8,088
District Department of Transportation (DDOT)				
Infrastructure Project Management Division	6,604	6,685	4,655	3,516
Urban Forestry Division	2,470	1,158	4,145	4,500
DCWater				
Blue Plains Operations and Maintenance excluding facilities, engineering, administration	101,870	103,820	107,026	105,203
Total, DC, State Programs	147,605	130,641	133,305	154,718

note 1: DOEE's fiscal year is October to September. The expenditures for FY 20 are reported through 7-27-2020 and do not include encumbered funds or intra-district advances. Final FY20 expenditures will be higher.

note 2: DOEE information was obtained from DOEE AFO and letters in () refers to the DC funding codes that generated the expenditures

note 3: FY22 operating funds taken from Mayor's budget. FY21 estimated capital funds based on budgets for planned projects

note 4: District dollars for stream restoration and demonstration projects are captured under MS4, Nonpoint Source, SRF and Chesapeake Bay program as match to grant funds.

note 5: Unless specified as "not match", District funds are used as match to federal grant program.

note 6: District dollars include personnel.

note 7: DDOT dollars provided by DDOT as of July 20, 2021 (FY21 data is not complete since the fiscal year ends September 30, 2021)

note 8: Expenditure data for projects were taken from an FY 2021 CFO\$olve capital project status report run on July 19, 2021

note 9: Expenditure data for FY 2021 is incomplete since the District's fiscal year ends on September 30, 2021

note 10: Expenditure data may reflect 'negative' expenditures due to payments or other transfers into a project

note 11: Projects captured are (a) those that fully support stormwater management infrastructure and (b) those that include stormwater management infrastructure. Based on a discussion with DDOT's Infrastructure Project Management Division, DDOT applied a proxy rate of 5% to all major roadway and bridge projects to estimate the share of each project's budget dedicated for stormwater management infrastructure.

note 12: Budget data for projects were taken from Mayor Bowser's proposed FY 2022 budget

note 13: DC Water data provided by DC Water as of July 7, 2021 (FY21 data is not complete since the fiscal year ends September 30, 2021)

Table 14—District of Columbia, Federal Funds Received

(Budget authority in thousands)	Federal Agency	Federal Program	FY 2019	FY 2020	FY 2021
Department of Energy and the Environment (DOEE)					
SRF Clean Water Construction (SRF)	EPA	Clean Water State Revolving Fund	4,541	4,628	4,736
NPS Program (EVNI - 350, 8201)	EPA	Section 319 Program	982	1,024	1,051
Chesapeake Bay Program (EVCB, EVRA)	EPA	Section 117 Program	1,878	2,398	2,424
Environmental Information Exchange Network Grant Program and Related Assistance (EVEX)	EPA	Consolidated Appropriations Act of 2019 (PL116-6)	0	200	200
Water Pollution Control Program (EVWP, EVWQ)	EPA	Section 106 and 604(b) Programs	1,160	350	1,197
Stream Restoration and Demonstration (EVLI, EVLI, EVSW, EVDP, EVMR, EVOR)	EPA	NFWF	200	200	250
Floodplain Management Program (EVFC, EVFE, CTP, FEM)	FEMA	Cooperative Technical Partners and Community Assistance programs	122	109	138
Fisheries Management and Aquatic Education (FM, AE, MB, FS, FH, SPOT, HOBE, WS)	DOI	Wildlife and Sport Fish Restoration Program	1,841	1,002	1,107
Source Reduction Auto Pollution (17EVSR, 19EVPO)	EPA	Source Reduction Assistance Grant Program	76	0	38

Boating Access (17EVAC, BOATAC, BOATKI)	DOI	Wildlife and Sport Fish Restoration Program (US Fish and Wildlife Service)	228	362	0
DC Floating Dock on Anacostia River (17EVAD)	DOI	Wildlife and Sport Fish Restoration Program (US Fish and Wildlife Service)	57	0	0
District Department of Transportation (DDOT)					
Infrastructure Project Management Division	FHWA	State Transportation Fund	7,114	6,450	4,771
DCWater					
Clean Water Act	EPA	Construction Grants for WW Treatment Works	2,865	1,803	2,609
Safe Drinking Water Act	EPA	Safe Drinking Water State Revolving Funds	11,004	10,481	10,558
Total, DC, Federal Funds Received			32,068	29,007	29,079

note 1: Unless otherwise noted, data based on federal awards received within the fiscal year (October 1 - September 30).

note 2: Cell H7 FY21 Clean Water State Revolving Fund based on anticipated FY21 award

note 3: Cell H8 FY21 Section 117 Program based on anticipated amounts provided by U.S. EPA Chesapeake Bay Program Office

note 4: Cell H9 FY21 Section 319 Program funding is based anticipated FY21 award

note 7: DC Water dollars provided by DC Water as of July 9, 2021 (FY21 data is not complete since the fiscal year ends September 30, 2021)

note 8: Expenditure data for projects were taken from an FY 2021 CFO\$olve capital project status report run on July 19, 2021

note 9: Expenditure data for FY 2021 is incomplete since the District's fiscal year ends on September 30, 2021

note: 10 Expenditure data may reflect 'negative' expenditures due to payments or other transfers into a project

note: 11 Projects captured are (a) those that fully support stormwater management infrastructure and (b) those that include stormwater management infrastructure. Based on a discussion with DDOT's Infrastructure Project Management Division, DDOT applied a proxy rate of 5% to all major roadway and bridge projects to estimate the share of each project's budget dedicated for stormwater management infrastructure.

Table 15—Maryland, State Programs

(Budget authority in thousands) ¹	FY 2019	FY 2020	FY 2021	FY 2022
Department of Agriculture				
Agricultural Land Preservation (MALPF)	50,810	47,077	44,413	47,788
Ag BMP Technical Assistance (General Funds)	3,554	3,360	3,364	3,140
Animal Waste Technology (Capital Bonds)	129	165	120	0
BMP Tech Assistance to Farmers (GF)	7,337	8,053	7,868	7,887
Cost Share for BMP Capital Projects	8,500	8,500	8,000	5,000
Cover Crop- SF	11,474	11,479	14,200	14,200
Manure to Energy Projects (SF MEA)	240	2,240	0	0
Manure Transport- Poultry (GF)	281	281	281	252
Poultry Litter Transportation (SF)	526	524	581	583
Urban Nutrient Mgmt (SF)	137	121	184	192
Department of the Environment²				
Capital Programs				
WWTP upgrades - SRF (non-federal)	123,600	88,837	119,286	138,388
ENR Upgrades (BRF Funds)	70,000	70,000	75,000	75,000
Septic System Upgrades (statewide)	15,000	15,000	15,000	15,000
Operating Programs				
Wetlands	5,739	6,213	5,873	5,928
Compliance	5,400	5,658	5,845	6,369
Wastewater Permits	3,611	3,590	3,414	3,336
Integrated Water Planning Program	2,366	1,906	2,170	2,135
Sediment, Stormwater and Dam Safety	2,899	3,002	2,556	2,952
Engineering and Capital Projects Program	1,597	1,786	1,940	1,855
Water Quality Financing (operating)	2,476	2,428	2,623	2,538
ENR O&M Grants	7,000	7,000	8,000	11,000
Septic System Grant Administration (HB12- local govt funds)	1,500	1,500	1,500	1,500

Clean Water Commerce Act (HB417)	10,000	10,000	10,000	20,000
Department of Natural Resources				
Forest Service	9,612	9,722	13,363	9,490
Wildlife & Heritage Service	848	977	877	704
Critical Area Commission	2,076	2,101	2,145	2,097
Resource Assessment Service	5,329	6,802	7,310	7,832
Maryland Environmental Trust	604	604	493	636
Chesapeake & Coastal Service	54,106	54,703	48,714	50,411
Fisheries Service	5,318	5,066	4,964	6,729
Capital Funds (GO Bonds)				
Oyster Restoration	260	2,610	8,730	260
Coastal Resiliency	4,725	3,085	4,160	4,160
Department of Planning				
Planning Services	3,977	3,898	4,955	4,291
Department of Transportation³	159,836	190,783	87,904	38,311
Total, Maryland	580,866	579,070	515,833	489,964

Notes on table 15:

1: Does not include reimbursable funds. Funds are based on state FY (July 1- June 30) e.g. FY21 July 1 2020- June 30 2021.

2: This is the amount MDE is supposed to provide given recent legislation

3: Most transportation projects undertaken in MD require stormwater management and mitigation for impacts to wetlands, forests and the Critical Area. A significant amount of mitigation costs represent transportation dollars spent specifically to support Bay restoration through living resources, water quality and habitat improvements. Transportation dollars do NOT represent Purple Line promised funding.

Table 16--Maryland, Federal Funds Received

(Budget authority in thousands)	Federal Agency	Federal Program ²	FY 2019	FY 2020 ¹	FY 2021
Maryland Department of Agriculture					
Watershed Implementation Program	USDA, NRCS	Conservation Innovation Grant	0	0	0
Program Planning and Development	USDA, NRCS	RCPP	0	0	0
Watershed Implementation Program	EPA	66.466 CBRAP	73	131	194
Nutrient Management	EPA	66.466 CBRAP	1,222	1,197	1,293
Special Projects Research	USDA, NRCS	10.192 Environmental Quality Incentives Program	10	3	125
Maryland Department of the Environment					
Integrated Water Planning Program	USEPA	66.454 Water Quality Mgmt Planning	214	323	297
Water Quality RLF - Capital Funds	USEPA	66.458 Capitalization Grants for Revolving Funds	33,000	38,430	38,435
Integrated Water Planning Program	USEPA	66.460 Nonpoint Source Implementation Grant	2,008	2,275	2,095
Wetlands	USEPA	66.461 Wetlands Protection	527	207	194
Water and Science Administration	USEPA	66.466 Chesapeake Bay Program	2,981	975	1,128
Water and Science Administration	USEPA	66.605 Performance Partnership Grant	3,576	3,728	4,625
Sediment, Stormwater and Dam Safety	DHS/ FEMA	97.041 National Dam Safety Program	62	68	198
Wetlands	DHS/ FEMA	97.045 Cooperating Technical Partners	839	869	855
Maryland Department of Natural Resources					
		10.069 Conservation Reserve Program			
		10.664 Cooperative Forestry Assistance			
		10.675 Urban and Community Forestry Program			
		10.676 Forest Legacy Program			
		10.678 Forest Stewardship Program			
		10.680 Forest Health			
Forest Service	Department of Interior	Forestry Contracts (excludes out-of-state fire expenses)	2,075	2,459	2,401
		15.611 Wildlife Restoration			
		15.615 Cooperative Endangered Species Conservation Fund			
		15.657 Endangered Species Conservation-Recovery Fund			
Wildlife & Heritage Service	USF&WS, Dept. of the Interior	15.633 Landowner Incentive Program	791	773	958

Resource Assessment Service	NOAA, USGS, EPA, BOEM	666.466 EPA-Chesapeake Bay Program 15.424 Bureau of Ocean Energy 15.810 USGS State map 15.814 National Geological and Geophysical Data. 11.457 - NOAA	1,942	1,529	2,379
Chesapeake & Coastal Service	EPA, USFWS	15.614 USFWS 66.466 EPA-Chesapeake Bay Program	4,053	4,014	4,073
Fisheries Service	USF&WS	15.605 Sport Fish Restoration 11.463 Habitat Conservation	3,458	1,961	2,302
Maryland Department of Planning			76	77	62
Total, Maryland, Federal Funds Received			56,907	59,019	61,614

Notes on Table 16:

1: Numbers have been updated to reflect FY2020 Actuals

2: EPA numbers reflect dollars not yet awarded. The FY21 appropriation approved by the legislature was shown on the spreadsheet to reflect dollars approved as of this date.

Table 17—New York, State Programs

(Budget authority in thousands)	FY 2019	FY 2020	FY 2021	FY 2022
Department of Environmental Conservation (NYSDEC)				
Water Quality Improvement Projects (WQIP) grant program	3,071	0	2,790	2,790
Engineering Planning Grant (EPG) program	300	339	240	240
Nonpoint Source Planning Grant (NPG) program	60	0	60	60
Department of Agriculture and Markets (NYSDAM)				
Agricultural Nonpoint Source Abatement & Control Grant Program (AgNPS)	3,740	4,926	3,630	3,630
Agricultural Environmental Management (AEM) Base Funding	1,270	810	1,040	1,040
Environmental Facilities Corporation (EFC)				
Green Infrastructure Program (GIGP)	1,330	330	1,370	1,370
Total, New York, State Programs	9,771	6,405	9,130	9,130

Notes on Table 17:

WQIP is a state grant program for projects that address water quality problems. FY19 and FY20 are awarded amounts. FY20 funding under this program was held due to COVID-19. FY 21 and FY22 is an estimate based on average awards made in prior WQIP rounds, excluding FY20.

EPG is a state grant program for municipalities for planning for wastewater infrastructure improvements. FY19 and FY20 are awarded amounts. FY21 and FY22 is an estimate based on average awards made in prior EPG rounds.

NPG is a new state grant program for municipalities for planning for nonpoint source projects. The first round was awarded in FY19 and a second round is anticipated in FY21.

AgNPS is a state grant program that provides funding for BMP planning and implementation on farms to reduce nonpoint source pollution. FY19 and FY20 AgNPS amount reported by NYSDAM in 2018-2019 and 2020-2021 Programmatic Milestones. FY21 and FY22 is an estimate based on average awards made in prior AgNPS rounds.

AEM Base is a state funding program for county soil and water conservation districts to provide technical assistance for conservation planning and implementation to farms. AEM Base amounts are county-wide for those counties with area in the CBay watershed and are not watershed-only. FY19-20 AEM amounts reported by NYSDAM in 2020-2021 Programmatic Milestones. FY21 and FY22 values are estimates based on funds earned in prior AEM Base program years.

GIGP is a state grant program for stormwater BMPs that provide stormwater treatment, habitat, flood attenuation and other benefits. FY19 and FY20 are awarded amounts. FY21 and FY22 is an estimate based on average awards made in prior GIGP rounds.

Table 18—New York, Federal Funds Received

(Budget authority in thousands)	Federal Agency	Federal Program	FY 2019	FY 2020	FY 2021
Department of Environmental Conservation, Division of Water					
Chesapeake Bay Watershed Program	EPA	Chesapeake Bay Regulatory and Accountability Program	1,007	963	920
Chesapeake Bay Watershed Program	EPA	Chesapeake Bay Implementation Grant	1,241	1,234	1,234
Chesapeake Bay Watershed Program	EPA	Local Government Funding (via CBIG)	450	450	450
Chesapeake Bay Watershed Program	EPA	WIP Assistance	0	60	0
Chesapeake Bay Watershed Program	EPA	EPA Region 2 Funding	0	179	179
Chesapeake Bay Watershed Program	EPA	Most Effective Basins Funding	0	80	205
Total, New York, Federal Funds Received			2,698	2,966	2,987

Table 19—Pennsylvania, State Programs

(Budget authority in thousands)	FY 2019	FY 2020	FY 2021	FY 2022
Department of Environmental Protection				
Growing Greener/Environmental Stewardship Fund (ESF)	1,964	27,906	6,850	20,000
Water Pollution Control (Section 106; Section 106 Supplemental; Section 604(b))	9,685	9,640	7,708	8,000
Agriculture Plan Reimbursement Program	773	681	840	0
Chesapeake Bay Implementation- Program Management and Administration	0	0	0	0
Chesapeake Bay Regulatory and Accountability- Agricultural Nonpoint Source Abatement	2,017	4,813	2,917	3,000
Non-Tidal Monitoring Network	701	0	664	600
Chapter 102- Construction Stormwater (E&S, PCSM, NPDES) Program Implementation and Administration	2,296	2,933	3,972	3,828
Chapter 105- WOE and Dam Safety Program Implementation and Administration	58,194	52,398	43,301	45,336
Chesapeake Bay Commission	300	300	300	300
State Conservation Commission				
Conservation District Fund Allocation Program	2,131	2,298	2,265	2,265
Dirt, Gravel, and Low Volume Road Program	17,157	16,790	14,600	15,000
Nutrient Management Program	1,584	1,584	1,591	1,591
Resource Enhancement and Protection Program	4,914	10,900	8,520	9,250
Conservation Excellence Grant	0	0	2,000	2,000
Agri-Link	0	0	0	100
Department of Agriculture				
Farmland Preservation	20,641	20,000	19,342	20,000
Pennsylvania Infrastructure Investment Authority				
Project Construction and Implementation	13,321	15,590	18,340	20,000

Department of Community and Economic Development

Watershed Restoration and Protection Program (Act 13)	968	1,713	0	0
---	-----	-------	---	---

Department of Conservation and Natural Resources

Land Conservation	4,866	711	3,290	6,400
Riparian Buffers (PennVest Funding)	683	279	0	0
Riparian Buffers (DCNR)	963	1,195	600	100
Tree Canopy (TreeVitalize Program)	59	60	113	140
Lawn Conservation (Conservation Landscaping and Urban Forest Planting)	0	72	150	300

Total, Pennsylvania, State Programs	143,179	169,827	137,365	158,211
--	----------------	----------------	----------------	----------------

Note 1: Amounts awarded are based on projects approved; an estimation can be performed based upon budgeted amounts. FY21 and FY22 are estimated.

Note 2: Expended funds calculated at 49% of the total statewide expenditures because the Chesapeake Bay Watershed makes up approximately 49% of Pennsylvania.

Note 3: Beginning FY19, match is provided in Growing Greener and Ag Plan Reimbursement Program

Note 4: FY19 Chesapeake Bay Agricultural Source Abatement funded via ESF; FY2021 expenditures are equivalent to 9 months

Note 5: Chapter 102 - construction stormwater (erosion and sediment control (E&S), post-construction stormwater management (PCSM), NPDES) state expenditures do not equate to total cost to implement the program. Permit fees collected are not included in this report. These numbers are provided on a state fiscal year basis, based on the state required triennial cost and fee analysis.

Note 6: FY20 and FY21 are estimated based on potential program costs / expenditures.

Note 7: Chapter 105 - water obstruction and encroachments (WOE) and dam safety state expenditures do not equate to total cost to implement the program. Permit fees collected are not included in this report. These numbers are provided on a state fiscal year basis, based on the state required triennial cost and fee analysis.

Note 8: DCED Watershed Restoration and Protection Program is reported on a state fiscal year basis. FY21 applications are being accepted through July 31, with awards anticipated Spring 2022. Varying levels of funding is received from year to year and this program competes directly against other Act 13 funding programs, therefore an estimate of FY21 or FY22 cannot be provided.

Table 20—Pennsylvania, Federal Funds Received

(Budget authority in thousands)	Federal Agency	Federal Program	FY 2019	FY 2020	FY 2021
Department of Environmental Protection					
Nonpoint Source Program	EPA	319 Program	4,651	4,847	4,978
Water Pollution Control	EPA	106 Grant	4,405	3,574	1,626
Water Pollution Control	EPA	106 Supplemental Grant	173	53	42
Monitoring Assessment and Planning	EPA	Section 604(b)	598	235	145
Chesapeake Bay Implementation	EPA	Chesapeake Bay Implementation Grant	2,073	6,200	2,352
Chesapeake Bay Regulatory and Accountability	EPA	Chesapeake Bay Regulatory and Accountability Grant	2,900	2,667	3,163
Chesapeake Bay Regulatory and Accountability	EPA	WIP	0	0	0
Chesapeake Bay Regulatory and Accountability	EPA	MEB	0	300	550
Chesapeake Bay Regulatory and Accountability	EPA	Water Division	50	100	210
Non-Tidal Monitoring Network	EPA	Monitoring	471	471	471
Department of Conservation and Natural Resources- Bureau of Forestry					
Land Conservation	USDA, Forest Service	Forest Legacy Program	0	0	0
Riparian Forest Buffer Initiative	USDA, Farm Service Agency	Riparian Forest Buffer Initiative	0	0	234

Riparian Forest Buffer Initiative	EPA	Chesapeake Bay Implementation Grant	0	685	0
Pennsylvania Infrastructure Investment Authority					
Program Administration and Oversight	EPA	SRF	1,683	1,039	1,131
Construction and Implementation	EPA	SRF	40,548	64,620	124,283
Pennsylvania Department of Agriculture					
Farmland Preservation- Ag BMP Implementation	USDA, NRCS	RCPP	0	2,400	2,294
Farmland Preservation- Conservation Easement	USDA, NRCS	ACEP	315	257	762
Total, Pennsylvania, Federal Funds Received			43,067	69,872	142,242

Note 1: FY21 has been allocated however it has not been awarded.

Note 2: Calculated at 49% as that is the land mass within the Chesapeake Bay Watershed

Note 3: Includes FY19 \$778,600 CBIG3 grant to DEP and subaward to DCNR and FY20 \$3,848,209 CBIG3 grant to DEP and subaward to PA State Conservation Commission. FY20 includes FY18 funds. FY21 allocation (per 2021 CBPO Grant Guidance, Attachment 15) of \$2,515,700 was reduced by \$163,681. This is equivalent to the Conowingo Funding Annual Cost Share adjustment.

Note 4: DCNR awarded \$5,385,000 in FY17 effective 7/1/2016 - 12/31/2020 for land conservation

Note 5: DCNR awarded \$684,868 in FY20 directly from EPA

Note 6: Pennsylvania's FY20 allocation (per 2021 CBPO Grant Guidance, Attachment 15) of \$2,915,028 was reduced by \$248,209.

Table 21--Virginia, State Programs

(Budget authority in thousands)	FY 2019	FY 2020	FY 2021	FY 2022
Virginia Marine Resources Commission				
Oyster Replenishment/Restoration	2,750	4,000	4,000	4,000
Oyster Reef Restoration- Capital Funding	0	0	10,000	0
Virginia Department of Environmental Quality¹				
Water Quality Improvement Fund point source grants	3,978	274	3,815	20,000
Water Quality Improvement Fund nonpoint source grants	382	1,170	885	989
Clean Water SRF	28,539	17,221	25,309	19,114
Stormwater Local Assistance grants	7,399	8,574	4,522	9,500
Stormwater Management	6,271	6,204	5,989	6,686
Water Quality Management	15,957	15,466	15,744	16,458
Air Quality	9,022	10,318	9,167	10,886
Land Management	5,273	5,058	4,502	4,824
Superfund	1,802	1,808	1,959	2,796
Petroleum Remediation	23,522	17,015	16,632	19,716
Litter Control and Recycling	1,473	1,401	1,469	1,523
CSOs, including Lynchburg, Richmond, and Alexandria	17,801	44,929	0	30,000
Virginia Department of Wildlife Resources²				
Nongame & Endangered Species Conservation	686	1517	2204	3500
Invasive Species	67	85	71	75
Habitat Management & Enhancement	661	490	449	500
Land Acquisition and Protection	1	4	96	6000
Recreational Hunting	595	605	983	750

Recreational Fishing	456	521	527	490
Recreational Boating Access	182	150	115	150
Virginia Department of Agriculture and Consumer Services				
Agricultural Stewardship Program	226	259	235	406
Agricultural Commodities Program	0	0	0	74
Virginia Department of Forestry				
Timber Harvest Inspection Program	670	657	642	642
Virginia Department of Conservation and Recreation³				
50301- Soil and Water Conservation	1,761	3,360	3,374	51,410
50320- Financial Assistance to Soil and Water Conservation Districts	4,130	5,055	5,400	11,579
50322- Technical Assistance to Soil and Water Conservation Districts	2,240	7,041	4,696	840
50323- Agricultural Best Management Practices Cost Share Assistance	14,208	35,120	29,826	6,160
50314- Dam Inventory, Evaluation and Classification and Flood Plain Management	1,986	6,850	20,596	1,844
50317- Natural Heritage Preservation and Management	2,450	3,047	3,194	3,700
50401- Preservation of Open Space Lands	8,429	5,348	12,175	11,655
50403- Design and Construction of Outdoor Recreational Facilities	519	621	629	626
50404- State Park Management and Operations	631	683	590	778
50406- Natural Outdoor Recreational and Open Space Resource Research, Planning, and Technical Asst.	701	645	1,124	7,672
59901- General Administration Management for Chesapeake Bay Program Activities	6,120	7,928	6,825	7,478
Virginia Department of Transportation⁴				
MS4/Chesapeake Bay TMDL Special Condition	10,987	15,218	23,694	26,500
Total, Virginia, State Programs	181,875	228,642	221,438	289,321

¹ All costs are based on June 30, state fiscal year

Clean Water SRF: Based on actual payments for localities in the bay region

Stormwater Local Assistance grants: Based on actual payments for localities in the bay region

Stormwater Management: Total program costs allocated based on statewide bay land area 60%

Water Quality Management: Total program costs allocated based on statewide bay land area 60%

Air Quality: Total program costs allocated based on statewide bay land area 60% except for non-attainment emissions inspection expenditures at 100%

Land Management: Total program costs allocated based on statewide bay land area 60%

Superfund Based on actual payments for localities in the bay region

Petroleum Remediation: Based on actual payments for localities in the bay region

Litter Control and Recycling: Based on actual payments for localities in the bay region

CSOs, including Lynchburg, Richmond, and Alexandria: Based on actual payments for localities in the bay region

FY 2021 and FY 2022 amounts and estimates are preliminary

² Funding for nongame & endangered species conservation estimated from statewide programmatic expenses based on distribution of species work done by staff, 95% in Ches Bay watershed. Program field activities significantly curtailed in FY2020 due to COVID-19 pandemic. Funding estimated based on distribution of Species of Greatest Conservation Need across the Commonwealth. Funding for Habitat Management, Recreational Hunting, Recreational Fishing, and Recreational Boating Access estimated from statewide programmatic expenses based on Ches Bay being 56% of area of Commonwealth. For all programs, FY 2021 expenditures not complete given one quarter left in the FY.

³ Soil and Water Conservation- Includes Water Quality practices, Nutrient Mgt to prevent run off, Agricultural incentives, Resource Mgt planning, Engineering Services, Shoreline Erosion Advisory (SEAS), Adopt a Stream, Watershed and Stream Exclusion Practices, Chesapeake Bay Restoration Fund, Plant more Plants, Conservation Reserve Enhancement Program (CREP), Virginia Agricultural Best Mgt Practices. Total program costs allocated based on statewide bay land area 70%

Public Safety, Erosion Control, Climate resiliency, Water Quality-Total program costs allocated based on statewide bay land area 70%, including Regional Greenhouse Gase Initiative Funds. Includes 47% of Dam Rehabilitation Project Funding.

Natural Area Preserves. Conservation of Virginia's biodiversity and ecosystems of lands with native plant and animal life. Protection and outdoor recreational opportunities. Clean water through Caves and Karst. Total program costs allocated based on statewide bay land area 70%.

Land protection grants and advisory, Virginia Outdoors Fund, Virginia Land Conservation Foundation, Clean Water Revolving Loan, Land Conservation, Virginia Recreational Trails Fund, Tax Incentive Administration. Total program costs allocated based on statewide bay land area 70%.

Accessibility, Environmental Education, Habitat Enhancement, Shoreline Erosion Control, Interpretative Signage, Canoe in Camping, Kayak Launch. Total program costs allocated based on activities in "Bay Area" Parks: False Cape, Chippokes, York River, First Landing, Leesylvania, Mason Neck, Westmorland and Kiptopeke.

Virginia Outdoors Plan, Land Water Conservation Fund, Recreational Trails Program, Virginia Land and Water Conservation Fund, Greenways and Trails, Blueways and Water Trails, Public Access, Virginia Scenic Resources (Rivers and Byways), Master Planning of Parks, Green Infrastructure- interconnected network of waterways wetlands, wildlife habitats, parks, and other open spaces that support native species. Total program costs allocated based on statewide bay land area 70%.

⁴ FY2020 estimates and includes activity for August and September 2020.

Table 22--Virginia, Federal Funds Received

(Budget authority in thousands)	Federal Agency	Federal Program	FY 2019	FY 2020	FY 2021
Virginia Marine Resources Commission					
Oyster Restoration-Replenishment ¹	NOAA	Fisheries Habitat Conservation Program	0	540	589
Virginia Department of Environmental Quality²					
Virginia Revolving Loan Program	EPA	EPA SRF	32,518	32,521	32,518
Chesapeake Bay Regulatory & Accountability Program (CBRAP)	EPA	EPA CBRAP	3,530	3,899	3,458
Chesapeake Bay Implementation Grant (CBIG)	EPA	EPA CBIG	2,878	3,025	4,020
PPG 106 Water	EPA	EPA 106	2,151	2,675	2,173
PPG 105 Air	EPA	EPA 105	1,834	1,729	1,729
Nonpoint Source Program	EPA	EPA 319	1,369	1,125	1,501
Coastal Zone Management Program	NOAA	NOAA CZM	1,735	1,559	1,696
Chesapeake Bay Monitoring	EPA	EPA 117e	1,360	1,392	1,392
DOD Federal Facilities	Department of Defense	Department of the Army, Corps of Engineers	1,341	577	1,232
PPG RCRA	EPA	EPA RCRA	1,296	1,356	1,296
Leaking Underground Storage Tank	EPA	EPA LUST	865	796	849
Leaking Underground Storage Tank Prevention	EPA	EPA LUST Prevention	431	416	424
PM 2.5 Air Monitoring Program	EPA	EPA PM 2.5	293	293	293
Water Quality Management Planning	EPA	EPA WQM 604(b)	229	328	329
DERA Project	EPA	EPA State Clean Diesel Program	166	196	212
PPG Wetlands	EPA	EPA Region 3 Wetland Program Development	105	105	91
Pre-remedial Response (Preliminary Assessment / Site Inspection - PASI)	EPA	EPA Superfund (Site Specific)	156	80	0
Superfund Core Program	EPA	EPA Superfund Core	150	385	0
106 Disaster Relief	EPA	EPA 106 Disaster Relief	0	189	0
Superfund: Atlantic Wood	EPA	EPA Superfund (Site Specific)	50	138	0
PPG Multipurpose	EPA	EPA Multipurpose	0	112	79
Community Scale Monitoring	EPA	EPA CSATM	0	0	247
Virginia Department of Wildlife Resources³					

Nongame & Endangered Species Conservation	USFWS	Wildlife & Sport Fish Restoration Program	853	851	460
Nongame & Endangered Species Conservation	USFWS	Cooperative Endangered Species Conservation	97	32	99
Nongame & Endangered Species Conservation	NOAA	Cooperative Endangered Species Conservation	371	180	18
Nongame & Endangered Species Conservation	USFWS	State Wildlife Grants Wildlife & Sport Fish Restoration Program	747	640	186
Invasive Species	USFWS	Wildlife & Sport Fish Restoration Program	20	75	33
Habitat Management & Enhancement	USFWS	Wildlife & Sport Fish Restoration Program	1982	1470	1347
Land Acquisition/Protection	USFWS	Wildlife & Sport Fish Restoration Program	3447	2623	96
Recreational Hunting	USFWS	Wildlife & Sport Fish Restoration Program	1785	1816	2950
Recreational Fishing	USFWS	Wildlife & Sport Fish Restoration Program	1367	1563	1580
Recreational Boating Access	USFWS	Wildlife & Sport Fish Restoration Program	545	452	344
Virginia Department of Forestry					
Chesapeake Bay Program	Forest Service	10.675 Tree Canopy	25	0	0
Chesapeake Bay Program	Forest Service	10.678 Buffer Enrollment	84	56	105
Virginia Department of Conservation and Recreation					
Soil and Water Conservation ⁴	EPA	319, CBIG and CBRAP	1,773	2,192	2,241
Dam Inventory, Evaluation and Classification and Flood Plain Management ⁵	FEMA	CTP, CAP-SSE and Dam Safety	322	231	506
State Park Management and Operations ⁶	NPS & USFWS/ACOE	Chesapeake Bay Access	357	44	7
Natural Outdoor Recreational and Open Space Resource Research, Planning, and Technical Assistance ⁷	NPS & USFWS	Land Conservation and East Coast Greenway	5,141	2,981	4,202
Total, Virginia, Federal Funds Received			71,373	68,642	68,302

¹ Partnership with the Virginia Institute of Marine Science (VIMS), and Chesapeake Bay National Estuarine Research Reserve (CBNERR) proposes to restore 100 acres of new oyster reef habitat over a three-year period for the benefit of federally managed fish species, forage species, native oysters and ecosystem services. This is a 4-year grant with funds approved one year at a time. The total of the four-year grant is estimated at \$3,004,439)

² VADEQ Notes: * Allocation Methodology

- Based on statewide Bay land area (60%)

EPA 106 (Primarily based on 60% estimate. Funding for some 106 projects is allocated based on projects for Bay localities)

EPA 105

EPA RCRA

EPA PM 2.5

EPA State Clean Diesel Program
EPA Region 3 Wetland Program Development
106 Disaster Relief (Hybrid -- 1/3 components based on Bay land area, 2/3 components based on project locations)
PPG Multipurpose

- Based on actual projects for localities in the bay region

Department of the Army, Corps of Engineers

EPA WQM 604(b)

EPA CBRAP

EPA CBIG

EPA 319

EPA 117e

EPA Superfund (Site Specific)

EPA Superfund Core

NOAA CZM

106 Disaster Relief (Hybrid -- 1/3 components based on Bay land area, 2/3 components based on project locations)

- Based on historical payments

EPA LUST

EPA LUST Prevention

- Based on assumption that 100% of projects will impact Bay area

EPA SRF

* Generally, allocation methodology was applied to federally approved amounts.

Exceptions:

* EPA SRF allocation is based on pending 2020 request

* DOD Fed Facilities is based on cash received

³ Funding estimated from statewide programmatic expenses based on distribution of species work done by staff, 95% in Ches Bay watershed. Program field activities significantly curtailed in FY2020 due to COVID-19 pandemic. Funding estimated based on distribution of Species of Greatest Conservation Need across the Commonwealth. Funding estimated from statewide programmatic expenses based on Ches Bay being 56% of area of Commonwealth. FY2021 expenditures not complete given that we have one quarter left in the FY.

⁴ Includes Water Quality practices, Nutrient Mgt to prevent run off, Agricultural incentives, Resource Mgt planning, Engineering Services, Shoreline Erosion Advisory (SEAS), Adopt a Stream, Watershed and Stream Exclusion Practices, Chesapeake Bay Restoration Fund, Plant more Plants, Conservation Reserve Enhancement Program (CREP), Virginia Agricultural Best Mgt Practices. Total program costs allocated based on statewide bay land area 70%

⁵ Public Safety, Erosion Control, Climate resiliency, Water Quality. Total program costs allocated based on statewide bay land area 70%

⁶ Accessibility, Environmental Education, Habitat Enhancement, Shoreline Erosion Control, Interpretative Signage, Canoe in Camping, Kayak Launch. Total program costs allocated based on activities in "Bay Area" Parks: False Cape, Chippokes, York River, First Landing, Leesylvania, Mason Neck, Westmorland and Kiptopeke.

⁷ Virginia Outdoors Plan, Land Water Conservation Fund, Recreational Trails Program, Virginia Land and Water Conservation Fund, Greenways and Trails, Blueways and Water Trails, Public Access, Virginia Scenic Resources (Rivers and Byways), Master Planning of Parks, Green Infrastructure- interconnected network of waterways wetlands, wildlife habitats, parks, and other open spaces that support native species. Total program costs allocated based on statewide bay land area 70%

Table 23—West Virginia, State Programs

(Budget authority in thousands)	FY 2019	FY 2020	FY 2021	FY 2022
Department of Environmental Protection				
CB Implementation Subrecipient state expenditures	1,140	1,287	1104	1,347
CB Regulatory & Accountability Subrecipient state expenditures	229	194	85	247
NPDES permitting, compliance, enforcement ¹ (14.55% of statewide program)	689	755	766	772
Monitoring and TMDL (14.55% of statewide program)	309	284	299	302
SRF Wastewater Treatment Upgrades ²	196	0	1,993	0
319 Program Match	25	225	73	25
WV Farmland Preservation Program	0	0	7,105	7,105
Infrastructure and Jobs Development Council (IJDC)				
Wastewater and CSO Projects	0	0	10,462	1,750
Total, West Virginia, State Programs	2,588	2,745	21,887	11,548

¹ 14.55% of statewide program, estimated by # of counties in Potomac River Basin (8 out of 55)

² There are also personnel and operating expenses incurred by the SRF Program to administer the program; however, those expenditures could not be included because WV DEP employee time was not tracked per wastewater treatment upgrade project.

Table 24—West Virginia, Federal Funds Received

(Budget authority in thousands)	Federal Agency	Federal Program	FY 2019 ³	FY 2020	FY 2021
Department Environmental Protection					
CB Implementation	EPA	CB Program	1,545	1,692	1,720
CB Regulatory & Accountability	EPA	CB Program	672	670	678
Water Pollution Control ¹	EPA	CWA 106 Program	296	286	306
Nonpoint Source 319 Program	EPA	CWA 319	47	0	92
CB Non-Tidal	EPA	CB Program	226	210	210
SRF Wastewater Treatment Upgrades	EPA	CWSRF	0	0	28
WQ Management Planning ^{1,2}	EPA	WQ Management Planning	109	24	61
WV Farmland Preservation Program	USDA NRCS	Farm and Ranch Lands Protection Program	0	0	618
Total, West Virginia, Federal Funds Received			2,895	2,882	3,713

¹ 14.55% of statewide program, estimated by # of counties in Potomac River Basin (8 out of 55)

² There are also personnel and operating expenses incurred by the SRF Program to administer the program; however, these expenditures could not be included because WV DEP employee time was not tracked per wastewater treatment upgrade project

³ FY2019 through FY 2021 these show the total federal award amounts for the fiscal year or at 14.55% of that total federal award amount for the fiscal year for the statewide grants (rounded to nearest thousands). For FY20 and FY21, the state of WV is providing the amounts the state requested or that was awarded by EPA. The following caveats explain the data in the FY21 column below. CBIG- revisions to the original budget were submitted to EPA on 07/20/21 which will reduce the total budget amount (correction of the 6 year federal/state total from \$18,897,836 to \$18,790,618). Once advised by EPA the state of WV will send the prepared FY21 amendment to EPA which will bring the total for FY21 CBIG to 1720k. Neither of these have yet been approved by EPA.; CBRAP- a new application was submitted to EPA for ~678k (includes the base and state program capacity funds) for FY21. This hasn't yet been awarded by EPA.; 106 WPC- an amendment was requested by the state of WV for a base and enhanced monitoring in amount of 2103k for FY21. This was awarded by EPA on 06/03/21. We are using 14.55% of the 2103k to represent the CB counties; CBNT FY21- the state of WV submitted a new application to EPA for consideration in the amount of ~210k for FY21, but this has not yet been awarded.; 604b WQMP, the state was awarded 250k for FY21 on 09/03/20. We had specific subawards that are within the CB area so that total is included. DEP personnel budget categories were shown at 14.55% of the total.