

CHESAPEAKE BAY RESTORATION SPENDING CROSSCUT

Report to Congress

Office of Management and Budget

September 2018

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) 2019 Budget recognizes the importance of Chesapeake Bay restoration activities and includes a request of nearly \$307 million for high priority programs and projects in the Chesapeake Bay Watershed.

This crosscut presents information on Federal funding from FY 2016 enacted through the FY 2019 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 \$300,000 in funding, though all data received is included in the tables below. In addition, the current year (FY 2018) 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 2016			FY 2017			FY 2018			FY 2019
	Operating Level	Obligations	Outlays	Operating Level	Obligations	Outlays	Operating Level	Obligations Through Q2	Outlays Through Q2	President's Budget
Department of Agriculture	160,745	205,543	127,235	163,405	209,796	142,676	183,825	91,641	105,348	159,551
Department of Defense (non-Army Corps)	70,722	97,957	101,147	79,520	87,977	91,811	94,452	93,244	46,284	27,962
Department of Commerce	16,345	16,286	19,417	17,478	17,086	15,620	16,020	4,117	6,545	8,757
Department of Homeland Security	0	0	0	1,727	1,727	158	0	0	340	0
Department of the Interior	39,069	34,646	31,999	35,315	30,777	27,055	35,150	9,857	12,918	21,768
Department of Transportation ³	0	0	0	0	0	0	0	0	0	0
Environmental Protection Agency	196,077	201,727	209,058	204,443	187,076	181,964	274,090	37,434	85,747	86,052
Army Corps of Engineers	8,898	7,699	6,755	3,811	7,005	7,195	13,462	2,035	1,807	2,838
Total, All Agencies	491,856	563,858	495,611	505,699	541,444	466,479	616,999	238,328	258,989	306,928

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.

³ Though DOT is a member of the Chesapeake Bay Federal Leadership Committee and conducts environmental-related activities in the Chesapeake Bay watershed, DOT does not interpret any to meet the definitional limits of this crosscut.

Table 2—Department of Agriculture

(Budget authority in thousands)	FY 2016			FY 2017			FY 2018			FY 2019
	Operating Level	Obligations	Outlays	Operating Level	Obligations	Outlays	Operating Level	Obligations Through Q2	Outlays Through Q2	President's Budget
Agricultural Research Service¹										
Water Availability and Water Management	4,268	4,268	4,268	4,751	4,751	4,751	5,084	5,084	5,084	4,705
Climate Change, Soils, and Emissions ²	4,027	4,027	4,027	5,873	5,873	5,873	5,873	5,873	5,873	5,833
Agricultural and Industrial Byproducts	1,646	1,646	1,646	0	0	0	0	0	0	0
Pasture, Forage, and Rangeland Systems	413	413	413	413	413	413	413	413	413	410
Agricultural System Competitiveness and Sustainability	1,304	1,304	1,304	1,304	1,304	1,304	1,304	1,304	1,304	1,295
Natural Resource Conservation Service										
Conservation Operations	14,494	14,620	14,620	14,620	15,819	11,358	16,900	7,960	7,960	12,700
Agricultural Conservation Easement Program (ACEP)	8,269	7,578	5,645	8,086	4,887	4,712	4,100	1,172	2,917	2,100
Agricultural Management Assistance (AMA)	613	224	366	336	822	424	500	0	126	0
Chesapeake Bay Watershed Program (CBWP)	3,830	1,616	7,890	9,639	3,476	8,011	10,800	444	1,567	0
Conservation Reserve Program (CRP)	2,254	2,859	2,859	3,696	3,488	3,060	2,900	1,159	1,496	2,900
Conservation Security Program (CSP)	867	46	37	0	63	46	0	0	0	0
Conservation Stewardship Program (CStP)	5,534	10,805	10,259	10,117	12,547	9,938	14,700	9,801	9,328	14,700
Environmental Quality Incentives Program (EQIP)	53,809	60,644	32,330	49,312	68,522	44,823	62,500	9,793	24,182	62,500
Farm and Ranch Lands Protection Program (FRPP)	305	70	316	0	422	1,119	0	219	400	0
Regional Conservation Partnership Program (RCPP) ³	3,260	10,788	2,249	1,788	9,338	4,203	1,800	514	2,565	1,800
Wetlands Reserve Program (WRP)	1,108	1,183	3,406	0	2,537	1,878	0	191	470	0
Wildlife Habitat Incentives Program (WHIP)	490	278	1,241	0	258	449	0	41	87	0

Animal and Plant Health Inspection Service										
Wildlife Services, Virginia-Federal Cooperative Funding ⁴	25	25	25	12	12	12	18	18	18	0
Wildlife Services, Maryland-Federal Cooperative Funding ⁵	1,050	903	903	1,050	1,050	1,050	1,007	533	533	1,545
National Institute of Food and Agriculture										
Hatch	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,008
1890 Colleges and Tuskegee (Evans Allen)	548	548	548	548	548	548	548	548	548	544
Agriculture and Food Research Initiative	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
Crop Protection & Pest Management	210	210	210	210	210	210	210	210	210	210
Beginning Farmers and Ranchers	598	598	598	598	598	598	598	598	598	0
Farm Service Agency										
Conservation Reserve Program	43,000	31,089	23,252	43,000	30,709	29,844	43,000	26,901	28,187	43,000
Rural Development										
Rural Development Service Water and Electric Programs ⁶	0	40,978	0	0	34,097	0	0	7,383	0	0
Forest Service⁷										
NFS ⁸	467	467	467	675	675	675	1,343	1,343	1,343	625
LWCF-NFS ⁹	2,036	2,036	2,036	1,775	1,775	1,775	5,000	5,000	5,000	0
SPF Cooperative Lands ¹⁰	1,201	1,201	1,201	897	897	897	534	534	534	0
LWCF- Forest Legacy ¹¹	0	0	0	0	0	0	0	0	0	0
R&D ¹²	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Office of the Chief Economist										
Office of the Chief Economist	175	175	175	175	175	175	176	88	88	176
Economic Research Service										
Economic Research Service	434	434	434	20	20	20	7	7	7	0

Total, USDA	160,745	205,543	127,235	163,405	209,796	142,676	183,825	91,641	105,348	159,551
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¹ ARS tracks obligations by project but an individual project can cover different types of research. Therefore we cannot provide obligations for specific initiatives.

² ARS projects within the "Agricultural and Industrial Byproducts" subcategory were merged with Climate Change, Soils, and Emissions in FY 2016 following the internal program review.

³ RCPP obligations do not include obligations made using funding from covered programs (ACEP, CSTP, or EQIP); those obligations are reported under the parent program.

⁴ Migratory Bird Protection, Stormwater Management (APHIS)

⁵ Nutria Eradication in the Chesapeake Bay (APHIS)

⁶ Water and Electric Programs (WEP), under the Rural Utilities Service/Rural Development, does not receive an appropriation, earmark, set aside, or any other form of funding through any medium (appropriations, etc.) related to the Chesapeake Bay Watershed. Additionally, the agency does not have policies or procedures that identify the use of other program monies for the benefit of the Chesapeake Bay Watershed. With that in mind, the agency may, from time-to-time, make loans and grants that benefit eligible borrowers who are located within the Chesapeake Bay Watershed. WEP has reported zero for appropriations to help the Chesapeake Bay Watershed for many years; however, in recent years the agency was directed to report any loans or grants that were made in the Chesapeake Bay Watershed whether it had a direct impact on assisting the cleanup of the Bay or not. WEP has not been given any direction or guidance as to which counties or areas are covered in the Chesapeake Bay Watershed. The agency took maps and estimated what areas might be considered part of the Chesapeake Bay Watershed. WEP has no other way of identifying Chesapeake Watershed projects as there are no flags, TOA codes, etc. Rural Development's WEP Data team runs obligation reports and pulls out any loans or grants that appear to be in the Chesapeake Bay watershed. The agency has been reporting all awards within the designated area even though it has no way of knowing if the loan and/or grant helped the Chesapeake Bay Watershed. WEP/RD - FYs 16, 17, and 18 (through Q2) include loan BA and Grant. In FY19, the program is projected to carry a negative subsidy rate and to be loan-only.

⁷ The Forest Service generally obligates the funding in same year it is received so for the purposes of this report, the obligations and outlays stay the same.

⁸ NFS amounts include all Watershed, Wildlife and Fish restoration activities, Non-native Invasive Species treatments and Prescribed burning to improve habitat. Reported amounts do not include: Salary for permanent employees, Fleet vehicles, or travel.

⁹ LWCF-NFS includes LWCF Collaborative funding in FY16 and FY17.

¹⁰ State and Private Forestry Cooperative Lands includes programs and projects directly associated with Chesapeake restoration. Includes \$100k to NFWF each year.

¹¹ LWCF-Forest Legacy projects are not chosen until January each year. Congress must approve the project list annually. Zeros indicate that there were no approved projects those years within CB watershed.

¹² 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 2016			FY 2017			FY 2018			FY 2019
	Operating Level	Obligations	Outlays ¹	Operating Level	Obligations	Outlays	Operating Level	Obligations Through Q2 ²	Outlays Through Q2	President's Budget
Services										
DoD Operations and Maintenance ³	70,722	97,957	101,147	79,520	87,977	91,811	94,452	93,244	46,284	27,962
Total, DOD	70,722	97,957	101,147	79,520	87,977	91,811	94,452	93,244	46,284	27,962

¹ DoD (Services) FY16 - FY18 Outlays are based on DoD O&M Defense Wide Outlay Rates over a typical 5-year outlay period.

² DoD (Services) FY18 Obligation is an average based on FY13 - FY17 obligations.

³ 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 2016			FY 2017			FY 2018			FY 2019
	Operating Level	Obligations	Outlays	Operating Level	Obligations	Outlays	Operating Level	Obligations Through Q2	Outlays Through Q2	President's Budget
National Oceanic and Atmospheric Administration										
Habitat Conservation and Restoration	6,690	6,617	6,411	6,775	6,776	4,805	6,439	1,243	3,536	6,407
Coastal Science, Assessment, Response and Restoration	2,948	2,706	2,706	2,359	1,967	1,967	2,140	857	857	2,350
Office of Education: Bay Watershed Education and Training (BWET)	2,707	2,707	2,594	2,723	2,722	2,503	2,748	0	\$0	0
National Sea Grant College Program	4,000	4,256	3,196	5,621	5,621	4,706	4,693	2,017	2,152	0
Total, NOAA	16,345	16,286	14,907	17,478	17,086	13,981	16,020	4,117	6,545	8,757
Economic Development Administration¹										
FY 2012 Disaster Funds provided by P.L. 112-55 ^{2,3}	0	0	4,510	0	0	1,639	0	0	0	0
Total, EDA	0	0	4,510	0	0	1,639	0	0	0	0
Total, Commerce	16,345	16,286	19,417	17,478	17,086	15,620	16,020	4,117	6,545	8,757

¹ EDA does not have any programs that are for the sole purpose to directly benefit the Chesapeake Bay watershed, so there is no budget amount for FY 2019. EDA does have programs that can benefit the Chesapeake Bay watershed if a qualifying grant is submitted by a local government or not for profit economic development organization. EDA's programs can be used for planning grants, technical assistance grants, and public works grants.

² Pursuant to section 703 of the Public Works and Economic Development Act (42 U.S.C. 3233), for an additional amount for "Economic Development Assistance Programs" for necessary expenses related to disaster relief, long-term recovery, and restoration of infrastructure in areas that received a major disaster designation in 2011 pursuant to the Robert T. Stafford Disaster Relief and Emergency Assistance Act (42 U.S.C. 5121 et seq.), \$200,000,000, to remain available until expended: Provided, That such amount is designated by Congress as being for disaster relief pursuant to section 251(b)(2)(D) of the Balanced Budget and Emergency Deficit Control Act of 1985.

³ The \$30 million Columbia County Flood Risk Management Project (\$15M EDA matched by \$15M non-Federal) will provide a significant level of flood protection for two key employers in the Town of Bloomsburg. The flood protection project is for the Susquehanna River tributary which flows into the Chesapeake Bay. In 2011, Tropical Storm Lee resulted in a record crest of 32.7 feet on the Susquehanna River, leaving approximately one-third of the town of Bloomsburg underwater. The project includes construction of flood protection systems at two separate industrial sites that are adjacent to the Susquehanna River. The first includes construction of a 5,300-foot flood wall, relocation of about 2,100 feet of Snyder Run, a new pump station, and a stormwater and groundwater conveyance and collection system. The second site includes construction of a 3,000-foot flood wall, a sewage pump station, and relocation of utilities. The project will support the retention of 900 jobs, according to grantee estimates. This grant is now closed and the final disbursement was made in FY 2017.

Table 5- Department of Homeland Security

(Budget authority in thousands)	FY 2016			FY 2017			FY 2018			FY 2019
	Operating Level	Obligations	Outlays	Operating Level	Obligations	Outlays	Operating Level	Obligations Through Q2	Outlays Through Q2	President's Budget
Department of Homeland Security										
TRACEN Yorktown & Base Portsmouth Sanitary Sewer System I&I Survey/Study	0	0	0	1,087	1,087	158	0	0	90	0
Base Portsmouth TMDL	0	0	0	640	640	0	0	0	250	0
Total, DHS	0	0	0	1,727	1,727	158	0	0	340	0

Table 6- Department of the Interior

(Budget authority in thousands)	FY 2016			FY 2017			FY 2018			FY 2019
	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										
Ecological Services	3,180	3,180	3,180	3,180	2,415	1,697	3,180	795	795	2,924
National Wildlife Refuge System	4,968	4,968	4,968	4,968	3,774	3,651	4,968	1,242	1,242	4,866
Habitat Conservation	3,554	3,554	3,554	3,554	2,699	1,896	3,554	889	889	2,473
Fish & Aquatic Conservation	1,737	1,737	1,737	1,737	1,713	1,500	1,737	434	434	1,372
Land Acquisition	3,111	1,590	1,354	2,100	846	846	1,000	0	0	0
Natural Resource Damage Assessment and Restoration	739	739	739	739	738	620	739	185	185	739
Wildlife Fire	563	563	569	563	422	300	563	141	141	563
Reimbursables	480	480	480	480	320	188	480	120	120	480
Total, USFWS	18,332	16,811	16,581	17,321	12,927	10,698	16,221	3,806	3,806	13,417
National Park Service										
Operation of the National Park System-National Trails	952	942	839	957	879	965	969	292	296	1,342
NPS Field Offices & Associated Areas	479	476	534	486	468	446	495	245	260	481
Nat'l Recreation & Preservation-Ches. Gateways & Water Trails	2,014	1,901	1,675	2,020	1,980	2,004	2,020	202	723	0
Construction - Management Planning	404	382	371	698	698	327	490	11	111	615
Land Acquisition & State Assistance-Land Acquisition	0	0	0	0	0	0	0	0	0	0
Land Acquisition & State Assistance-Stateside Grants	4,323	2,322	1,570	1,124	1,124	810	2,246	472	1,373	0
Total, NPS	8,172	6,023	4,989	5,285	5,149	4,552	6,220	1,222	2,763	2,438

U.S. Geological Survey										
Ecosystems	5,009	4,708	4,157	4,909	4,915	4,575	4,909	1,865	2,458	621
Climate and Land Use Change	1,518	1,427	1,260	917	953	913	NA	NA	NA	NA
Land Resources (new in 2018- Formerly CLU)	NA	NA	NA	NA	NA	NA	917	348	480	837
Energy and Minerals, and Environmental Health	1,669	1,569	1,385	1,669	1,669	1,552	1,669	634	835	12
Water Resources	4,369	4,107	3,626	4,714	4,693	4,350	4,714	1,791	2,345	3,943
Core Science Systems	0	0	0	500	470	415	500	190	233	500
Total, USGS	12,565	11,811	10,429	12,709	12,700	11,805	12,709	4,829	6,349	5,913
Total, DOI	39,069	34,646	31,999	35,315	30,777	27,055	35,150	9,857	12,918	21,768

USGS Footnotes:

Funding Source: USGS Operating Level includes only appropriated funding from Surveys, Investigations, and Research by budget activity (mission area).

Projects: All USGS funding falls under the scientific research or monitoring category.

Explanation of Obligation Rate Used (**FY 2016 and FY 2017**): Historical data shows that USGS obligates 94% in the first year of multi-year funding authority and that carryover is typically 6%. Based on this trend, USGS will show the obligation rate as 94% and 6%. The obligations "cascade" from year to year.

Explanation of Obligation Rate Used (**FY 2018**): The actual spend rate through Q2 is 32% and was applied to the 2018/2019 multi-year operating level. In addition, 6% is applied to the 2nd year of 2017/2018 funds.

Explanation of Outlay Rate Used: Historical data shows that USGS outlays at the following cascading rate - 83%, 10% and 7%. In 2018, outlays are projected through Q2 only.

In the FY 2018 Omnibus, the Climate and Land Use Change Mission Area restructured to the Land Resources Mission Area.

Table 7- Environmental Protection Agency

(Budget authority in thousands)	FY 2016			FY 2017			FY 2018			FY 2019
	Operating Level	Obligations	Outlays	Operating Level	Obligations	Outlays	Operating Level	Obligations Through Q2	Outlays Through Q2	President's Budget
Environmental Protection Agency										
Program Operations & Support	5,122	5,086	6,210	5,227	5,185	5,324	4,801	2,381	2,423	0
Partnership & Data Management Support	8,709	12,813	10,245	8,709	9,459	10,828	8,878	363	4,618	0
WQ Monitoring Grants	4,778	5,066	5,136	4,778	6,466	4,065	4,818	0	2,323	5,200
TMDL Implementation & Analysis	3,000	1,891	2,168	3,000	1,385	1,602	3,000	573	588	1,600
Reporting & Accountability ¹	2,601	2,464	2,338	2,601	2,565	2,305	2,601	-143	550	500
Permit Review and Rule Development, Guidance & Implementation	4,354	4,440	3,394	4,249	4,550	3,756	4,595	716	1,719	0
Enforcement	1,493	1,358	1,818	1,493	1,383	1,492	1,364	449	466	0
Small Watershed Grant Program	6,000	6,000	2,883	6,000	6,046	5,143	6,000	0	2,616	0
Innovative Nutrient Sediment Reduction Grants	6,000	6,000	5,139	6,000	6,245	5,640	6,000	0	2,307	0
State Implementation Grants	30,943	32,426	29,365	30,943	23,488	28,546	30,943	5,783	13,251	0
Improve Water Quality-Watershed (CWA Sec 319) ^{2,3}	8,165	8,200	9,155	8,445	5,276	8,501	8,442	0	3,345	0
Pollution Control Grants (CWA Sec 106) ^{3,4}	11,444	11,618	16,250	20,327	11,698	10,825	11,284	4,113	2,287	5,979
Pollution Control Monitoring (CWA Sec 106) ^{3,4,5}	0	821	715	0	657	941	823	0	505	0
Infrastructure Assistance Grants: Clean Water SRF ³	103,468	103,544	114,244	102,671	102,671	92,996	180,541	23,200	48,750	72,773
Total, EPA⁶	196,077	201,727	209,058	204,443	187,076	181,964	274,090	37,434	85,747	86,052

¹ FY2018 Reporting and Accountability is negative due to a deobligation of prior year funds (17/18 B) from grant GO CB96326101.

² Fiscal year outlays can be greater than the Operating level and Obligations as expenditures occur from carryover funds and prior obligations.

³ These funding programs are statewide. In order to determine the Chesapeake Bay funding levels, the statewide program funding was multiplied by the percentage of the land area within the Chesapeake Bay watershed. The FY 2015 funding levels were determined by multiplying the statewide program funding by the percentage of land area within the Chesapeake Bay watershed at a Regional level for Region 3. The Chesapeake Bay watershed comprises 48.67% of area of the Region 3 states. The FY 2016 and FY 2017 funding were calculated using a pro-rata approach for the percent of the state within the Chesapeake Bay watershed to determine program funding levels. The state level estimates were aggregated for a watershed total. For Region 3, the FY 2018 President's Budget 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.

⁴ The Section 106 Pollution Control Grants include Susquehannan River Basin Commission and Interstate Commission for the Potomac River Basin because these commissions operate entirely in the Chesapeake Bay Watershed. For the FY19 PB, Delaware River Basin Commission estimates could not be removed, since allocation proposals are made at the regional level. FY16-FY18 DRBC allocations were approximately \$600K per year.

⁵ 2018 Obligations and Outlays as of 4-2-18, however, in order to include SRBC and ICPRB numbers and exclude DRBC numbers, grant tracking numbers as of 7-10-18 were used.

⁶ Operating plans are not provided for 106 monitoring funds. 106 monitoring funds are reprogrammed after operating plans are loaded into BAS.

Table 8- Army Corps of Engineers

(Budget authority in thousands)	FY 2016			FY 2017			FY 2018			FY 2019
	Operating Level ¹	Obligations	Outlays	Operating Level	Obligations	Outlays	Operating Level	Obligations Through Q2	Outlays Through Q2	President's Budget
Army Corps of Engineers										
Multiple Studies	700	598	600	1,510	1,271	1,263	0	855	523	0
Coordination with Other Water Resource Agencies	350	309	309	105	105	105	104	30	29	60
Baltimore Metropolitan, Gwynns Falls, MD	3,736	3,756	3,756	0	1	1	0	0	0	0
Chesapeake Bay Oyster Recovery, MD & VA	1,970	1,334	566	0	3,590	4,096	0	184	275	0
Lynnhaven River Basin, VA	0	98	98	0	122	122	10,000	64	64	0
Environmental Stewardship - multiple projects	2,142	1,604	1,426	2,196	1,916	1,608	3,358	902	916	2,778
Total, USACE²	8,898	7,699	6,755	3,811	7,005	7,195	13,462	2,035	1,807	2,838

¹ Operating level is defined as new budget authority and does not include previously appropriated funds

² Prior to 2018, this crosscut reflected funding for the Poplar Island, MD project; this project was removed because the purpose of the project is disposal of dredged material from Baltimore Harbor.

Table 9—Army Corps of Engineers—Project Detail

(Budget authority in thousands)	FY 2019 Budget	Description	Status	Authorized Funding Level
Army Corps of Engineers				
Environmental Stewardship	2,778	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 Operations and Maintenance account, and represents multiple projects that are budgeted and receive budget authority at the project level within the Chesapeake Bay watershed.	This program is in the Operations and Maintenance phase.	n/a ¹

¹ There is no cost limitation on authorized environmental stewardship investments.

State Data

Table 10--Delaware, State Programs

(Budget authority in thousands)	FY 2016	FY 2017	FY 2018	FY 2019
Department of Natural Resources and Environmental Control				
Conservation Cost Share, State Budget (CB portion estimate)	750	750	750	850
Total, Delaware, State Programs	750	750	750	850

Table 11--Delaware, Federal Funds Received

(Budget authority in thousands)	Federal Agency	Federal Program	FY 2016	FY 2017	FY 2018
Department of Natural Resources and Environmental Control					
Nonpoint Source Program	EPA	CWA Section 319	375	350	350
Chesapeake Bay Implementation Grant	EPA	CWA Section 117	1,250	1,250	1,288
Local Government Funding	EPA	CWA Section 117	366	366	366
Water Protection Division	EPA	CWA Section 117	90	0	38
WIP Assistance	EPA	CWA Section 117	67	70	50
Chesapeake Bay Regulatory And Accountability Grant Program	EPA	CWA Section 117	820	977	820
Total, Delaware, Federal Funds Received			2,968	3,013	2,912

Table 12—District of Columbia, State Programs

(Budget authority in thousands)	FY 2016	FY 2017	FY 2018	FY 2019
Department of Energy and the Environment (DOEE)				
SRF Clean Water Construction (EVCA, EVSD, SRF)	1,352	1,661	1,132	1,922
Nonpoint Source Program (EVNI)	441	1,520	329	514
Chesapeake Bay Program (EVCB, EVRA, EVOS)	2,120	4,794	1,713	867
Water Pollution Control Program (EVWP, EVWQ)	666	635	282	437
Floodplain Management Program (EVFC, EVFE)	22	5	1	22
Fisheries Management and Aquatic Education (EVFS, MB, WS, AE, FM,SP, AR, TS, WT, CV, AD, AC)	672	665	517	698
Fishing License Program (603) not match	111	109	-	2
MS4 Program (654) not match	6,651	17,772	6,720	11,542
Stormwater and Erosion/Sediment Control(634, 646) not match	2,061	2,178	2,168	4,233
Anacostia Fund (670) not match	800	1,343	1,530	3,633
MS4 Program- Capital (SWM05C) not match	3,026	1,677	3,529	500
Anacostia Fund - Capital (BAG04C) not match	-	442	24	25
Anacostia Sediment Study (HMRHMC)	5,922	7,475	4,337	3,200
Alger Park (EVJB)	-	700	-	-
Nash Run Stream Restoration -DC -(EVNA)	712	-	-	-
Fort Dupont Restoration - (EVFD)	-	150	815	-
Source Reduction (EVSr)	-	2	1	-
District Department of Transportation (DDOT)				
Green Infrastructure Installed As Part Of Roadway and Bridge Capital Projects	4,125	4,125	4,850	4,000
Urban Forestry Administration	1,869	2,760	2,875	4,000

DCWater

Blue Plains Operations and Maintenance excluding facilities, engineering, administration	90,466	98,299	101,917	101,870
Total, DC, State Programs	121,016	146,312	132,741	137,463

Table 13—District of Columbia, Federal Funds Received

(Budget authority in thousands)	Federal Agency	Federal Program	FY 2016	FY 2017	FY 2018
Department of Energy and the Environment (DOEE)					
SRF Clean Water Construction (SRF)	EPA	Clean Water State Revolving Fund	2,688	3,209	4,542
NPS Program (EVNI - 350, 8201)	EPA	Section 319 Program	978	1,004	-
Chesapeake Bay Program (EVCB, EVRA)	EPA	Section 117 Program	2,486	2,591	2,561
Water Pollution Control Program (EVWP, EVWQ)	EPA	Section 106 and 604(b) Programs	1,413	1,282	1,158
Stream Restoration and Demonstration (EVLI, EVLI, EVSW, EVDP)	EPA	NFWF	-	-	-
Floodplain Management Program (EVFC, EVFE)	FEMA	Cooperative Technical Partners and Community Assistance programs	187	42	-
Fisheries Management and Aquatic Education	DOI	Wildlife and Sport Fish Restoration Prog	1,773	1,224	136
Push-net Survey	NOAA		50	39	-
Source Reduction Auto Pollution (17EVSR)	EPA	Source Reduction Assistance Grant Program	56	112	4
Fort Dupont Watershed Restoration Grant (EVFD)	EPA	Chesapeake Stewardship Fund	-	-	-
Boating Access (17EVAC)	DOI	Wildlife and Sport Fish Restoration Program (US Fish and Wildlife Service)	-	228	-
DC Floating Dock on Anacostia River (17EVAD)	DOI	Wildlife and Sport Fish Restoration Program (US Fish and Wildlife Service)	-	-	94
Clean Vessel Act Pumpout Program (17EVCV, 18EVCV)	DOI	Wildlife and Sport Fish Restoration Program (US Fish and Wildlife Service)	19	-	-
District Department of Transportation (DDOT)					
Green Infrastructure Program	FHWA	State Transportation Fund	4,125	4,850	6,500
Urban Forestry Administration	US DOT	FHWA	1,359	930	-

DCWater

Clean Water Act	EPA	Construction Grants for WW Treatment Works	4,000	2,100	3,317
Safe Drinking Water Act	EPA	Safe Drinking Water State Revolving Funds	8,000	6,900	8,600
Total, DC, Federal Funds Received			27,134	24,511	26,912

Notes on Tables 12 and 13

DOEE's fiscal year is October to September. The expenditures for FY18 are reported through 7-19-2018.

DOEE information was obtained from DOEE AFO and letters in () refer to the DC funding codes that generated the expenditures.

FY19 Operating funds taken from Mayor's Budget. FY19 estimated capital funds based on budgets for planned projects.

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

Unless specified as "not match", District funds are used as match to federal grant programs.

District dollars include personnel

DDOT dollars provided by DDOT Resource Allocation Division

DC Water dollars provided by DC Water.

Unless otherwise noted, data based on federal awards received within the fiscal year (October 1- September 30). For FY18, represents federal awards as of 7/19/2018.

FY18 Clean Water State Revolving Fund information based on anticipated FY18 award.

Section 117 Program based on amounts provided by the U.S. EPA Chesapeake Bay Program Office.

Table 14—Maryland, State Programs

(Budget authority in thousands)	FY 2016	FY 2017	FY 2018	FY 2019
Department of Agriculture				
Agricultural Land Preservation (MALPF)	5,250	20,692	26,229	50,810
Ag BMP Technical Assistance	3,001	4,553	3,466	3,554
Animal Waste Technology	528	554	446	1,000
BMP Tech Assistance to Farmers	6,712	7,234	6,632	7,337
Cost Share for BMP Capital Projects	3,260	490	8,000	8,500
Cover Crop	11,200	11,698	4,113	11,474
Manure to Energy Projects	0	493	6	2,757
Poultry Litter Transportation	363	453	447	526
Urban Nutrient Mgmt	109	82	27	137
Department of the Environment				
Capital Programs				
WWTP upgrades - SRF (non-federal)	96,090	89,248	91,222	110,400
BNR (GO Bonds funds)	26,500	14,000	60,089	0
ENR Upgrades (BRF Funds)	141,921	80,000	60,000	70,000
Septic System Upgrades (statewide)	18,976	14,000	15,000	15,000
Operating Programs				
Wetlands	5,474	6,439	6,135	6,141
Compliance	5,040	5,521	5,566	5,442
Wastewater Permits	19,411	3,752	3,673	3,635
Integrated Water Planning Program	753	2,386	2,985	2,378
Sediment, Stormwater and Dam Safety	2,199	2,812	2,893	2,917
Engineering and Capital Projects Program	1,974	1,599	1,771	1,606
Water Quality Financing (operating)	2,091	2,172	2,442	2,491
ENR O&M Grants	3,183	4,777	7,000	7,000
Septic System Grant Administration (HB12- local govtfunds)	1,475	1,425	1,500	1,500

Clean Water Commerce Act (HB417)	0	0	0	6,000
Department of Natural Resources				
Forest Service	9,753	8,315	9,717	9,546
Wildlife & Heritage Service	1,097	1,152	988	874
Critical Area Commission	1,991	1,991	1,999	2,086
Resource Assessment Service	5,368	5,234	5,534	5,367
Maryland Environmental Trust	616	913	789	603
Chesapeake & Coastal Service	39,065	53,741	52,173	54,887
Fisheries Service	3,989	4,120	5,054	5,343
Capital Funds (GO Bonds)				
Oyster Restoration	7,600	3,300	2,729	270
Department of Planning				
Planning Services	4,436	3,821	4,460	4,262
Department of Transportation	0	103,015	151,803	159,298
Total, Maryland	429,425	459,982	544,888	563,141

Notes on Table 14:

Does not include reimbursable funds.

State fiscal year data. FY16 and FY17 are actual expenditures. FY18 and FY19 are based on appropriation. Totals may include reimbursable funds from other agencies. There was a functional and budgetary reorganization effective 7/1/2017; actual expenditures for FY16 were not restated to reflect the reorg.

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

Table 15--Maryland, Federal Funds Received

(Budget authority in thousands)	Federal Agency	Federal Program	FY 2016	FY 2017	FY 2018 ¹
Maryland Department of Agriculture					
Watershed Implementation Program	USDA, NRCS	Conservation Innovation Grant	669	580	19
Program Planning and Development	USDA, NRCS	RCPP	0	97	50
Maryland Department of the Environment					
Integrated Water Planning Program	USEPA	66.454 Water Quality Mgmt Planning	0	249	300
Water Quality RLF - Capital Funds	USEPA	66.458 Capitalization Grants for Revolving Funds	33,910	33,737	32,315
Integrated Water Planning Program	USEPA	66.460 Nonpoint Source Implementation Grant	1,391	1,474	2,190
Wetlands	USEPA	66.461 Wetlands Protection	107	90	279
Water and Science Administration	USEPA	66.466 Chesapeake Bay Program	3,113	3,182	2,349
Water and Science Administration	USEPA	66.605 Performance Partnership Grant	1,690	1,089	818
Sediment, Stormwater and Dam Safety	DHS/ FEMA	97.041 National Dam Safety Program	66	145	65
Wetlands	DHS/ FEMA	97.045 Cooperating Technical Partners	303	1,357	839
Maryland Department of Natural Resources					
Forest Service	Department of Interior	10.069 Conservation Reserve Program	1,938	2,267	1,935
		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			
Forestry Contracts (excludes out-of-state fire expenses)					
Wildlife & Heritage Service	USF&WS, Dept. of the Interior	15.611 Wildlife Restoration	70	688	869
		15.615 Cooperative Endangered Species Conservation Fund			
		15.657 Endangered Species Conservation-Recovery Fund			
Resource Assessment Service	NOAA, USGS, EPA, BOEM	666.466 EPA-Chesapeake Bay Program	1,859	2,007	2,120
		15.424 Bureau of Ocean Energy			
		15.810 USGS Statemap			
		15.814 National Geological and Geophysical Data.			
		11.457 - NOAA			

Chesapeake & Coastal Service	EPA, USFWS	15.614 USFWS 66.466 EPA-Chesapeake Bay Program	3,236	3,993	3,499
Fisheries Service	USF&WS	15.605 Sport Fish Restoration 11.463 Habitat Conservation	2,436	1,249	2,697
Maryland Department of Planning			140	112	51
Total, Maryland, Federal Funds Received			50,928	52,316	50,395

Notes on Table 15:

State fiscal year data. FY16 and FY17 are actual expenditures; FY18 and FY 19 (if included) are based on appropriation. Totals may include reimbursable funds from other agencies. There was a functional and budgetary reorganization effective 7/1/2017; actual expenditures for fy16 were not restated to reflect the reorg.

Table 16—New York, State Programs

(Budget authority in thousands)	FY 2016	FY 2017	FY 2018	FY 2019
Department of Environmental Conservation (NYSDEC)				
Water Quality Improvement Projects (WQIP) grant program	3,059	5,027	4,000	4,000
Engineering Planning Grant (EPG) program	80	242	161	161
Department of Agriculture and Markets (NYSDAM)				
Agricultural Nonpoint Source Abatement & Control Grant Program (AgNPS)	2,554	4,613	4,000	4,000
Agricultural Environmental Management (AEM) Base Funding	1,020	1,110	1,110	1,110
Environmental Facilities Corporation (EFC)				
Green Infrastructure Program (GIGP)	1,750	3,300	3,000	3,000
Total, New York, State Programs	8,463	14,292	12,271	12,271

Notes on Table 16:

WQIP is a state grant program for projects that address water quality problems. FY16 and FY17 are awarded amounts. FY18 and FY19 is an estimate based on average awards made in prior WQIP rounds.

The EPG is a state grant program for municipalities for planning for wastewater infrastructure improvements. FY16 and FY17 are awarded amounts. FY18 and FY19 is an estimate based on average awards made in prior EPG rounds.

AgNPS is a state grant program that provides funding for BMP planning and implementation on farms to reduce nonpoint source pollution. FY16 AgNPS amount reported by NYSDAM in 2016-2017 Programmatic Milestones and FY17 AgNPS amount reported by NYSDAM in 10/1/17-3/31/18 CBIG progress report. FY18 and FY19 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. FY16 AgNPS amount reported by NYSDAM in 2016-2017 Programmatic Milestones and FY17 AgNPS amount reported by NYSDAM in 10/1/17-3/31/18 CBIG progress report. FY18 and FY19 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. FY16 and FY17 amounts are awarded amounts. FY18 and FY19 is an estimate based on average awards made in prior GIGP rounds.

Table 17—New York, Federal Funds Received

(Budget authority in thousands)	Federal Agency	Federal Program	FY 2016	FY 2017	FY 2018
Department of Environmental Conservation, Division of Water					
Chesapeake Bay Watershed Program	EPA	Chesapeake Bay Regulatory and Accountability Program	1,017	1,007	1,186
Chesapeake Bay Watershed Program	EPA	Chesapeake Bay Implementation Grant	1,670	1,877	1,670
Total, New York, Federal Funds Received			2,687	2,884	2,856

Table 18—Pennsylvania, State Programs

(Budget authority in thousands)	FY 2016	FY 2017	FY 2018	FY 2019
Department of Environmental Protection				
Growing Greener	9,373	13,636		
Water Pollution Control	4,450	3,635		
Chesapeake Bay Implementation- Program Management and Administration	1,039	956		
Chesapeake Bay Regulatory and Accountability- Program Management and Administration	1,440	918		
Non-Tidal Monitoring Network	3,950			
Chapter 102/ Chapter 105 Permit Processing	5,257	4,757		
Chesapeake Bay Commission	227	275	275	300
State Conservation Commission				
Conservation District Fund Allocation Program	3,502	3,525	3,523	3,580
Dirt, Gravel, and Low Volume Road Program	13,720	13,720	13,720	13,720
Nutrient Management Program	1,530	1,539	1,530	1,530
Resource Enhancement and Protection Program	4,900	4,900	4,900	4,900
Pennsylvania Infrastructure Investment Authority				
Project Construction and Implementation	0	39,491	15,240	
Department of Community and Economic Development				
Watershed Protection Program	1,002	1,290	1,325	1,325
Department of Natural Resources				
Land Conservation	3,062	735		
Rivers Conservation	200			
Riparian Buffers (PennVest Funding)		1,000		

Riparian Buffers (DCNR)	550	325		
Tree Canopy (TreeVitalize Program)	43	62		
Total, Pennsylvania, State Programs	54,245	90,764	40,513	25,355

Note 1: Full information was not available from the State by the deadline for this crosscut, missing information will be provided in next year's report.

Note 2: Costs for State Conservation Commission calculated as 49% of statewide costs, since approximately 49% of the state is in the Chesapeake Bay Watershed.

Note 3: Costs figured on federal fiscal year, FY 2018 costs are from October 1, 2017 through June 30, 2018.

Note 4: Amounts for Pennsylvania Infrastructure Investment Authority are based on projects approved, not funds spent. Projections can't be made since we can't determine type, number of projects or amounts we will receive.

Note 5: Actual projections for Growing Greener cannot be made since amounts are based on projects approved. However, a minimum amount is budgeted as match to the EPA CBIG grant.

Note 6: Chesapeake Bay Implementation funding transferred to CBRAP as match in FY 2018.

Note 7: In order to avoid later duplication, Project Construction and Implementation funding has been adjusted from previous submittals to capture only loan/grant closings. Costs for FY 2018 include decisions made at the July Pennvest Board Meeting.

Table 19—Pennsylvania, Federal Funds Received

(Budget authority in thousands)	Federal Agency	Federal Program	FY 2016	FY 2017	FY 2018
Department of Environmental Protection					
Nonpoint Source Program- Program Management and Administrative Oversight	EPA	319 Program	743		
Nonpoint Source Program- Project Construction and Implementation	EPA	319 Program	2,085	2,040	0
Water Pollution Control- Program Management and Administrative Oversight	EPA	106 Grant	2,867	3,436	
Water Pollution Control Supplemental Monitoring- Program Management and Administrative Oversight	EPA	106 Supplemental Grant	103	63	
Monitoring Assessment and Planning- Program Management and Administrative Oversight	EPA	Section 406(b)	211	239	
Chesapeake Bay Implementation- Program Management and Administration	EPA	Chesapeake Bay Implementation Grant	147	307	

Chesapeake Bay Implementation- Project Construction and Implementation	EPA	Chesapeake Bay Implementation Grant	972	732	
Chesapeake Bay Regulatory and Accountability- Program Management and Administration	EPA	Chesapeake Bay Regulatory and Accountability Grant	3,431	2,915	
Non-Tidal Monitoring Network- Program Management and Administration			264	356	
SWAT Program	USDA, NRCS		278	191	0
Department of Natural Resources					
Riparian Forest Buffer Initiative	USDA, Farm Service Agency	Riparian Forest Buffer Initiative	190	190	
Pennsylvania Infrastructure Investment Authority					
Program Management and Administrative Oversight	EPA	SRF	1,688	1,347	582
Project Construction and Implementation	EPA	SRF	11,355	5,653	101,225
Total, Pennsylvania, Federal Funds Received			24,334	17,469	101,807

Note 1: Full information was not available from the State by the deadline for this crosscut, missing information will be provided in next year's report.

Note 2: Costs calculated as 49% of statewide costs, since approximately 49% of the state is in the Chesapeake Bay Watershed.

Note 3: Costs figured on federal fiscal year, FY 18 costs are from October 1, 2017 through June 30, 2018.

Note 4: The SWAT Program Grant has closed.

Note 5: In order to avoid later duplication information on project construction and implementation for the Pennsylvania Infrastructure Investment Authority has been adjusted from previous submittals to capture only loan/grant closings. Costs for FY 2018 include decisions made at the July Pennvest Board Meeting.

Table 20--Virginia, State Programs

(Budget authority in thousands)	FY 2016	FY 2017	FY 2018	FY 2019
Virginia Marine Resources Commission				
Oyster Restoration	2,000	2,000	2,000	2,750
Virginia Department of Game and Inland Fisheries				
Fisheries and Aquatic Habitat	1,303	2,623	2,647	2,600
Species of Conservation Need and Habitat	215	424	626	500
Wildlife and Terrestrial Habitat	3,465	4,383	4,633	4,200
Land Acquisition	11,649	4,417	10,553	4,246
Public Access	596	1,035	896	3,224
Virginia Department of Transportation				
MS4/Chesapeake Bay TMDL Special Condition	448	598	4,306	10,957
Virginia Department of Environmental Quality				
Water Quality Improvement Fund point source grants	53,027	42,837	15,024	8,000
Water Quality Improvement Fund non point source grants	381	193	420	850
Clean Water SRF	45,734	34,344	11,729	34,000
Stormwater Local Assistance Grants	2,975	13,274	9,524	18,000
Stormwater Management	3,157	3,176	4,202	6,599
Water Quality Management	14,374	15,041	16,490	16,817
Air Quality	8,583	7,961	8,183	8,914
Land Management	4,491	4,876	4,986	5,027
Superfund	1,657	1,716	1,604	1,833
Petroleum Remediation	23,138	23,808	23,319	24,254
Litter Control and Recycling	1,373	1,284	1,341	1,422
Lynchburg and Richmond CSO	7,980	3,261	6,563	17,000

Virginia Department of Agriculture and Consumer Services

Agricultural Stewardship Act Program	205	212	218	224
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Virginia Department of Forestry

Environmental Protection Agency	262	220	167	167
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Virginia WQ program (Harvest Inspection Program)	475	461	496	496
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Virginia Department of Conservation and Recreation

Soil and Water Conservation	2,204	2,351	2,190	17,702
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Financial Assistance to Soil and Water Conservation Districts	4,272	4,023	4,179	4,375
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Technical Assistance to Soil and Water Conservation Districts	1,708	3,032	2,970	720
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Agricultural Best Management Practices Cost Share Assistance	14,503	24,180	12,847	5,280
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Dam Inventory, Evaluation and Classification and Flood Plain Management	1,466	3,272	1,673	1,409
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Natural Heritage Preservation and Management	2,416	2,418	2,346	2,581
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Preservation of Open Space Lands	3,424	4,767	5,289	3,011
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Design and Construction of Outdoor Recreational Facilities	361	875	462	532
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State Park Management and Operations	24,770	25,776	26,960	27,557
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Natural Outdoor Recreational and Open Space Resource Research, Planning, and Technical Assistance	668	258	689	788
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General Administration Management for Chesapeake bay Program activities	5,055	5,408	5,609	5,489
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Total, Virginia, State Programs

	248,335	244,504	195,141	241,524
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Table 21--Virginia, Federal Funds Received

(Budget authority in thousands)	Federal Agency	Federal Program	FY 2016	FY 2017	FY 2018
Department Environmental Quality					
Virginia Revolving Loan Program	EPA	EPA SRF	27,344	27,133	32,848
Nonpoint Source Program	EPA	EPA 319	1,880	1,731	1,548
Chesapeake Bay Monitoring	EPA	EPA 117 d & e	1,360	1,360	1,360
Chesapeake Bay Regulatory and Accountability	EPA	EPA CBRAP	2,308	2,849	3,589
Chesapeake Bay Implementation	EPA	EPA CBIG	3,920	3,448	2,778
Leaking Underground Storage Tank	EPA	EPA LUST	897	906	896
Leaking Underground Storage Tank Prevention	EPA	EPA LUST PREVENTION	521	482	453
PPG 106 Water	EPA	EPA 106	2,073	2,037	2,073
PPG 105 Air	EPA	EPA 105	1,765	1,799	1,764
PPG RCRA	EPA	EPA RCRA	1,200	1,233	1,200
DOD Federal Facilities	DOD	Army Corps	1,551	534	480
Coastal Zone Management	NOAA	NOAA CZM	1,249	1,566	2,234
Virginia Marine Resources Commission					
Oyster Restoration	Hurricane Sandy Funds		439		
Virginia Game and Inland Fisheries					
Fisheries and Aquatic Habitat	USFWS	Sportfish Restoration Program	977	1,967	1,985
Species of Conservation Need and Habitat	USFWS	State Wildlife Grants	215	318	469
Wildlife and Terrestrial Habitat	USFWS	Wildlife Restoration Programs	2,599	3,288	3,475
Land Acquisition	USFWS	Wildlife Restoration Programs	11,649	4,417	10,553
Public Access	USFWS	Wallup-Breaux/SFR	596	777	672
Virginia Department of Forestry					
Timber Harvest Inspection Program	EPA		204	208	146
Virginia Department of Conservation and Recreation					
Soil and Water Conservation	EPA	319, CBIG and CBRAP	3,346	2,015	3,520
Dam Inventory, Evaluation and Classification and Flood Plain Management	FEMA	CTP, CAP-SSE and Dam Safety	333	219	293

Natural Outdoor Recreational and Open Space Resource Research,
Planning, and Technical Assistance

NPS & USFWS

Land Conservation and East
Coast Greenway

1,870

3,486

3,017

Total, Virginia, Federal Funds Received

68,296

61,773

75,353

Table 22—West Virginia, State Programs

(Budget authority in thousands)	FY 2016	FY 2017	FY 2018	FY 2019
Department of Environmental Protection				
CB Implementation Subrecipient state expenditures	992	630	679	655
CB Regulatory & Accountability Subrecipient state expenditures	126	98	121	115
NPDES permitting, compliance, enforcement ¹	601	640	640	616
Monitoring and TMDL (14.55% of statewide program)	301	298	296	285
SRF Wastewater Treatment Upgrades ²	37,689	23,733	2,980	1,572
319 Program Match	41	13	41	157
Infrastructure and Jobs Development Council (IJDC)				
Wastewater Treatment Upgrade Expenditures through Senate Bill 245 ³	46,333	10,321	2,959	0
Total, West Virginia, State Programs	86,083	35,733	7,716	3,400

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.

³ Legislation to provide lottery funds for upgrades to wastewater treatment plants to meet environmental standards targeting Chesapeake Bay Restoration

Table 23—West Virginia, Federal Funds Received

(Budget authority in thousands)	Federal Agency	Federal Program	FY 2016	FY 2017	FY 2018
Department Environmental Protection					
CB Implementation	EPA	CB Program	1,550	1,566	1,550
CB Regulatory & Accountability	EPA	CB Program	715	672	672
Water Pollution Control ¹	EPA	CWA 106 Program	324	324	322
319 Program	EPA	CWA 319	209	0	237
CB Non-Tidal	EPA	CB Program	210	210	210
WQ Management Planning ²	EPA	WQ Management Planning	31	30	37
Total, West Virginia, Federal Funds Received			3,039	2,802	3,028

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

² 14.55% of statewide program and sub-awards issued to Potomac River Basin Projects