

GREAT LAKES RESTORATION CROSSCUT

Report to Congress

Office of Management and Budget

November 2021

The Great Lakes Watershed



2021 Great Lakes Restoration Crosscut

This report represents an accounting of Federal funding for Great Lakes restoration activities. This report is provided to Congress in response to Section 738 of the Financial Services and General Government Appropriations Act, 2014 (Division E of Public Law 113-76).

The Fiscal Year (FY) 2022 Budget continues the Administration's commitment to the restoration of the Great Lakes ecosystem by requesting more than \$1 billion for priority programs and projects in the Great Lakes watershed. Funding will support a number of critical restoration activities, including projects for aquatic invasive species including Asian carp, toxics and contaminated sediments, nonpoint source pollution, and habitat protection and restoration.

This crosscut presents information on Federal funding from FY 2017 through the FY 2022 President's Budget for Great Lakes restoration work in the following formats:

- Total Federal funding by agency, including national and Great Lakes programs and projects;
- Agency allocations of the Great Lakes Restoration Initiative;
- Agency funding for national programs;
- Agency funding for Great Lakes Programs; and
- Agency funding for Great Lakes projects.

It is important to note that for national programs, in many instances the numbers shown for FY 2021 and FY 2022 are extrapolated either from past funding provided to the region, or by using a percentage of land in the Great Lakes basin relative to the rest of the State. The funding ultimately provided to the Great Lakes basin through national programs may differ from these estimates.

A few other funding notes are necessary. All Federal agency dollars are reported in millions; programs and projects that have not received at least \$500,000 in funding over the period of FY 2017 to FY 2022 are excluded, and rounding errors may occur.

Table 1--Federal Agency Totals

(Budget authority in millions) ^{1,2}	FY 2017 Enacted	FY 2018 Enacted	FY 2019 Enacted	FY 2020 Enacted	FY 2021 Enacted	FY 2022 Budget
Great Lakes Restoration Initiative	300	300	300	320	330	340
Department of Agriculture	251	301	338	275	250	263
Department of the Army	33	77	31	25	43	22
Department of Commerce	41	44	47	49	49	56
Department of Homeland Security ³	0	0	0	0	0	0
Department of the Interior	70	69	72	96	98	110
Department of State	27	35	39	49	49	49
Department of Transportation ⁴	0	0	0	0	0	0
Environmental Protection Agency	198	238	228	233	209	233
Total, All Agencies	920	1,064	1,055	1,047	1,028	1,073

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

² All tables exclude programs and projects that have received or requested less than \$500,000 across FYs 2017-2022.

³ Though DHS has included funds in past reports and Coast Guard receives some funding through the GLRI, this year the agency has no individual programs to report that fall within the scope of the crosscut.

⁴ While DOT does not make any direct programmatic funding contributions to Great Lakes Restoration, States use DOT funds for a variety of environmental mitigation activities that have undoubtedly contributed to restoration efforts. DOT is reporting \$0 for FY 2017, FY 2018, FY 2019, FY 2020 and FY 2021 to reflect that DOT has not received, awarded or obligated funding to directly restore the Great Lakes Watershed, and while States continue to use DOT funds that may contribute to restoration efforts (e.g., a State may use FHWA funding to clean up an area located within the Great Lakes watershed in order to construct a new bridge), DOT does not currently track the amount of DOT funding used for such activities.

Table 2--Great Lakes Restoration Initiative, Agency Allocations

(Budget authority in millions)	FY 2017 Enacted	FY 2018 Enacted	FY 2019 Enacted	FY 2020 Enacted	FY 2021 Enacted	FY 2022 Budget
Department of Agriculture	35	37	34	34	35	38
Animal and Plant Health Inspection Service	1	1	1	1	1	2
Natural Resources Conservation Service	22	25	21	22	22	25
U.S. Forest Service	11	10	12	10	11	11
Department of the Army	60	29	60	34	48	9
Army Corps of Engineers	60	29	60	34	48	9
Department of Commerce	12	24	17	29	12	11
National Oceanic and Atmospheric Administration	12	24	17	29	12	11
Department of Health and Human Services	1	1	1	0	0	0
Agency for Toxic Substances and Disease Registry and Center for Disease Control	1	1	1	0	0	0
Department of Homeland Security	2	1	2	1	1	1
Coast Guard	2	1	2	1	1	1
Department of the Interior	84	90	79	88	91	55
Bureau of Indian Affairs	11	12	10	16	16	15
Fish and Wildlife Service	42	52	46	51	53	29
U.S. Geological Survey	27	21	20	17	18	7
National Park Service	4	5	4	4	5	5
Department of State	6	5	10	9	1	2
Great Lakes Fishery Commission	6	5	10	9	1	2
Department of Transportation	1	1	1	6	8	1
Maritime Administration	1	1	1	6	8	1
Environmental Protection Agency	103	113	97	121	134	134
Multiple Agencies¹	0	0	0	0	0	88
Total, All Agencies	300	300	300	320	330	340

¹ Agency GLRI allocations for portions of the funding for GLRI Focus Area activities are still being determined for FY 2022 as of the date of this information request.

Table 3--Department of Agriculture, National Programs

(Budget authority in millions)	FY 2017 Actual	FY 2018 Actual	FY 2019 Actual	FY 2020 Actual	FY 2021 Enacted	FY 2022 Budget
Natural Resources Conservation Service						
Conservation Operations	22	21	21	19	16	16
Conservation Reserve Program	5	5	5	6	4	4
Conservation Stewardship Program ¹	29	27	69	49	32	32
Environmental Quality Incentives Program	76	91	93	72	54	54
Wetlands Reserve Program	2	2	1	0	6	6
Agricultural Conservation Easement Program	13	8	13	15	9	9
Total, NRCS	147	154	202	161	121	121
Agricultural Research Service						
Water Availability and Water Management	2	2	3	3	3	3
Sustainable Agricultural Systems Research ²	1	1	1	1	1	1
Total, ARS	3	3	4	4	4	4
Farm Service Agency						
Conservation Reserve Program	47	42	43	43	46	46
Total, FSA	47	42	43	43	46	46
National Institute of Food and Agriculture						
Hatch	1	1	1	1	1	1
Agriculture and Food Research Initiative Grants	2	2	2	2	3	5
Total, NIFA	3	3	3	3	4	6
Rural Development						
Water / Wastewater Loans and Grants ³	46	97	82	61	72	72
Total, RD	46	97	82	61	72	72
Forest Service						
Land and Water Conservation Fund: Forest Legacy ⁴	0	0	2	0	0	11
Working Forest Lands ⁵	3	1	1	1	1	1
Knutsen-Vandenberg Fund	1	1	1	1	1	1
National Forest System ⁶	1	1	1	1	1	1
Total, FS	5	3	5	3	3	14
Total, USDA	251	301	338	275	250	263

¹ In FY 2019, all CStP contracts were obligated to the full extent of the contract. Previously, contracts were only obligated for the current year.

² In FY 2019, National Program Agricultural System Competitiveness & Sustainability was renamed Sustainable Agricultural Systems Research.

³ The Rural Utilities Service's Water and Environmental Programs does not receive an appropriation, earmark, set aside, or any other form of funding specific to the Great Lakes Watershed (Watershed). WEP may obligate 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 said purpose. As such, WEP is reporting awards that were made in the Watershed whether or not they had a direct impact on assisting with cleanup. Absent

guidance, WEP estimated what areas/counties might be considered part of the Watershed. FYs 16-18 include loan BA and Grant. In FY19, the program carried a negative subsidy rate, so figures only reflect grant. The subsidy rate is positive for FY20, so loan BA and grant are counted; however, the majority of obligations occur in August and September. Therefore, the FY20 is not reflective of the total projected obligations.

⁴ For FY 2020, no appropriations were provided for Forest Legacy.

⁵ For FY 2021, amount only includes projected Forest Stewardship Program funding. It does not include Landscape Scale Restoration projects since those are competitive projects and will be awarded after funds are appropriated and projects reviewed.

⁶ National Forest System funding includes the following programs: Forest Products (NFTM), Vegetation and Watershed Management (NFVW), and Wildlife and Fisheries Habitat Management (NFWF)

Table 4--Department of the Army, National Programs

(Budget authority in millions)	FY 2017 Enacted	FY 2018 Enacted	FY 2019 Enacted	FY 2020 Enacted	FY 2021 Enacted ²	FY 2022 Budget
Army Corps of Engineers						
Continuing Authorities Program (CAP)	0	3	2	1	6	4
Total, Department of the Army	0	3	2	1	6	4

¹ Enacted amounts represent the final allocation of funds in the Great Lakes watershed for CAP Sections 204, 206, and 1135. The Budget amount represents the nationwide total for these Sections since the portion for Great Lakes is unknown.

² The FY 2021 funding is for CAP Section 304, Beneficial Use of Dredged Material at Ashtabula, OH.

Table 5--Department of the Army, Great Lakes Programs

(Budget authority in millions)	FY 2017 Enacted	FY 2018 Enacted	FY 2019 Enacted	FY 2020 Enacted	FY 2021 Enacted	FY 2022 Budget
Army Corps of Engineers						
Great Lakes Tributary Model	1	0	0	0	0	0
Surveillance of Northern Boundary Waters	6	6	5	6	6	5
Total, Department of the Army	7	6	5	6	6	5

Table 6--Department of the Army, Great Lakes Projects

(Budget authority in millions)	FY 2017 Enacted	FY 2018 Enacted	FY 2019 Enacted	FY 2020 Enacted	FY 2021 Enacted	FY 2022 Budget
Army Corps of Engineers						
Chicago Sanitary & Ship Canal Dispersal Barriers	12	17	19	14	29	13
Indiana Shoreline Erosion	2	3	3	3	0	0
Interbasin Control Great Lakes, Mississippi River, Aquatic Nuisance Species ¹	3	2	0	0	0	0
Presque Isle Peninsula	2	2	2	1	2	0
McCook and Thornton Reservoirs ²	7	44	0	0	0	0
Total, Department of the Army	26	68	24	18	31	13

¹ This project was funded at \$200,000 in FY 2019, \$315,000 in FY 2020, and \$335,000 in FY 2021, which rounds to zero for purposes of this report.

² This project was funded to completion in FY 2018 pursuant to a Section 1043 of the Water Resources Reform and Development Act agreement with the non-Federal sponsor.

Table 7--Department of the Army, Great Lakes Projects-- Detail

(Budget authority in millions)	FY 2022 Budget	Description	Status	Authorized Funding Level (\$M)
Army Corps of Engineers				
Chicago Sanitary & Ship Canal Dispersal Barriers	13	System of electric barriers to deter movement of aquatic nuisance fish species between the Illinois River and Lake Michigan.	Three barriers are constructed and operational: Demonstration barrier, Barrier IIA and Barrier IIB. All construction activities for Permanent Barrier I have been completed. Performance verification and safety testing will be completed in the second quarter of FY 2021, which is a prerequisite for the full-time operation scheduled to occur by the end of FY 2021. The FY 2022 funds will be used for operation and maintenance of the entire electric dispersal barriers system.	no limit
Total, Department of the Army	13			

Table 8--Department of Commerce, National Programs

(Budget authority in millions)	FY 2017 Enacted	FY 2018 Enacted	FY 2019 Enacted	FY 2020 Enacted	FY 2021 Enacted	FY 2022 Budget
National Oceanic and Atmospheric Administration						
Coastal Zone Management Grants	13	14	15	15	15	21
Title IX Grants (<i>Newly reported for FY19/FY20</i>) ¹	0	0	3	1	1	1
National Center for Coastal Ocean Science External Competitive Research ²	0	1	1	1	1	1
Coastal Science, Assessment, Response and Restoration	2	1	2	1	1	1
National Estuarine Research Reserves	1	1	2	2	2	2
Marine and Aviation Ops charter vessel for Algal Bloom projects	0	0	0	0	0	0
Sea Grant	12	12	12	15	15	15
National Marine Sanctuaries	2	2	3	3	3	4
Total, Department of Commerce	30	33	36	38	38	45

¹ Funding in FY 2021 and 2022 is estimated based on FY20 actuals. Actual amounts will vary based on the annual review process.

² FY 2021 and 2022 funding is an estimate based on historical trends. Actual funding amounts will be determined based on final appropriations as well as the number and quality of proposals received.

Table 9--Department of Commerce, Great Lakes Programs

(Budget authority in millions)	FY 2017 Enacted	FY 2018 Enacted	FY 2019 Enacted	FY 2020 Enacted	FY 2021 Enacted	FY 2022 Budget
National Oceanic and Atmospheric Administration						
Great Lakes Environmental Research Laboratory	11	11	11	11	11	11
Total, Department of Commerce	11	11	11	11	11	11

Table 10--Department of the Interior, National Programs

(Budget authority in millions)	FY 2017 Enacted	FY 2018 Enacted	FY 2019 Enacted	FY 2020 Enacted	FY 2021 Enacted	FY 2022 Budget
U.S. Geological Survey						
Ecosystems/Status and Trends Program	3	3	3	2	0	0
Ecosystems/Fisheries Program	4	4	4	7	0	0
Ecosystems/Environments Program	1	1	1	1	0	0
Ecosystems/Invasive Species Program (Asian Carp)	4	4	6	8	0	0
Ecosystems/Species Management Research	0	0	0	0	11	11
Ecosystems/ Land Management Research	0	0	0	0	1	1
Ecosystems/Biological Threats Research Program (Asian Carp)	0	0	0	0	8	8
Ecosystems/ Climate Adaptation Science Center	0	0	0	0	1	3
Ecosystems/Environmental Health	0	0	0	0	1	1
Energy, Minerals & Environmental Health	0	0	1	1	0	0
Land Resources/NRCASC	0	0	0	4	0	0
Water Availability and Use Science Program	1	1	1	0	0	0
Groundwater and Streamflow Information Program	3	3	3	3	3	3
National Water Quality Program	2	2	2	2	2	1
Water Resources Availability Program	0	0	0	0	0	0
Water Observing Systems Program	0	0	0	0	0	0
National Cooperative Geologic Mapping Program	1	1	1	1	5	5
National Geospatial Program	0	0	0	5	5	5
Fish and Wildlife Service						
Clean Vessel Grant Program	1	1	1	1	1	1
Coastal Wetlands Grant Program	2	2	2	2	2	2
Ecological Services	10	10	10	10	11	13
Fire Management/Roads	2	2	2	2	2	2
Fish and Wildlife Management	4	4	4	4	4	4
Fish Hatcheries	4	4	4	5	5	7
Aquatic Invasive Species (Asian Carp)	6	6	6	15	13	13
Law Enforcement	2	2	2	2	2	2
National Wildlife Refuge System	12	12	12	13	14	17
National Park Service						
Competitive Park Projects (Water Management Plans)	1	0	0	0	0	0
Operating Program	5	5	5	5	6	9
Vital Sign Water Quality Monitoring	0	1	1	1	1	1
Total, Department of the Interior	68	67	71	94	95	107

Table 11--Department of the Interior, Great Lakes Programs

(Budget authority in millions)	FY 2017 Enacted	FY 2018 Enacted	FY 2019 Enacted	FY 2020 Enacted	FY 2021 Enacted	FY 2022 Budget
Fish and Wildlife Service						
Great Lakes Consent Decree	1	1	1	1	2	2
Great Lakes Fish and Wildlife Restoration	0	0	0	1	1	1
Total, Department of the Interior	2	2	1	2	3	3

Table 12--Department of State, Great Lakes Programs

(Budget authority in millions)	FY 2017 Enacted	FY 2018 Enacted	FY 2019 Enacted	FY 2020 Enacted	FY 2021 Enacted	FY 2022 Budget
Great Lakes Fishery Commission	25	33	37	47	47	47
International Joint Commission	2	2	2	2	2	2
Total, Department of State	27	35	39	49	49	49

Table 13--Environmental Protection Agency, National Programs

(Budget authority in millions)	FY 2017 Enacted	FY 2018 Enacted	FY 2019 Enacted	FY 2020 Enacted	FY 2021 Enacted	FY 2022 Budget
Clean Water State Revolving Fund ¹	155	188	186	186	186	210
Section 105 Clean Air Grants ¹	1	1	1	1	1	1
Section 106 Clean Water Grants ¹	16	15	16	16	16	16
Section 319 Nonpoint Source Grants ¹	3	4	5	0	5	5
Superfund Remedial ²	21	29	19	30	TBD	TBD
Wetlands State Grants ¹	2	1	1	0	1	1
Total, Environmental Protection Agency	198	238	228	233	209	233

¹ Obligation data does not signify investment or disinvestment trends in cleanups in the Great Lakes Watershed, but rather annual resource use at individual sites

² FY 2021 and FY 2022 data are not provided as they are enforcement confidential and do not reflect "approved" plans.