GREAT LAKES RESTORATION CROSSCUT

Report to Congress

Office of Management and Budget

December 2023

The Great Lakes Watershed



2023 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) 2024 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 invasive carp, toxics and contaminated sediments, nonpoint source pollution, and habitat protection and restoration.

This crosscut presents information on Federal funding from FY 2019 through the FY 2024 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 2023 and FY 2024 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 2019 to FY 2024 are excluded, and rounding errors may occur.

Table 1—Federal Agency Totals

(Budget authority in millions) ^{1,2}	FY 2019 Enacted	FY 2020 Enacted	FY 2021 Enacted	FY 2022 Enacted	FY 2022 IIJA Allocation	FY 2023 Enacted	FY 2023 IIJA Allocation	FY 2024 IIJA Allocation	FY 2024 Budget
Great Lakes Restoration Initiative	300	320	330	348	200	368	200	200	368
Department of Agriculture	340	279	258	245	0	231	4	3	288
Department of the Army	31	25	47	34	246	69	9	3	25
Department of Commerce	49	49	49	59	24	53	7	2	47
Department of Homeland Security ³	0	0	0	0	0	0	0	0	0
Department of the Interior	70	91	97	97	2	103	2	1	106
Department of State	49	49	49	49	0	53	0	0	41
Department of Transportation ⁴	0	0	0	0	0	0	0	0	0
Environmental Protection Agency	228	238	234	165	247	112	0	0	205
Total, All Agencies	1,067	1,051	1,064	997	719	989	222	209	1,080

¹In 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 2019-2024.

³Though 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. While in FY23 there are two site investigations to identify if potential hazards exist, there are no active projects performing restoration or remediation. No identified sites requiring restoration or remediation in FY23 as of August 2023.

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 2018, FY 2019, FY 2021, and FY 2022 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 Federal Highway Administration 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 2019 Enacted	FY 2020 Enacted	FY 2021 Enacted	FY 2022 Enacted	FY 2022 IIJA Allocation	FY 2023 Enacted	FY 2023 IIJA Allocation	FY 2024 IIJA Allocation	FY 2024 Budget
Department of Agriculture									
[Animal and Plant Health Inspection Service]	1	1	1	2	0	2	0	0	2
[Natural Resources Conservation Service]	21	22	24	32	0	33	0	0	33
[U.S. Forest Service]	12	10	12	13	0	14	0	0	14
Department of the Army									
[Army Corps of Engineers]	37	31	43	31	13	15	0	0	15
Department of Commerce									
[National Oceanic and Atmospheric Administration]	29	28	17	30	14	25	0	0	25
Department of Health and Human Services									
[Agency for Toxic Substances and Disease Registry and Center for Disease Control]	0	0	0	0	0	0	0	0	0
Department of Homeland Security									
[Coast Guard]	2	1	1	1	0	1	0	0	1
Department of the Interior									
[Bureau of Indian Affairs]	10	16	16	20	0	21	0	0	21
[Fish and Wildlife Service]	47	54	59	86	0	75	0	0	75
[U.S. Geological Survey]	22	20	20	25	0	23	0	0	23

[National Park Service]	4	4	5	8	0	8	0	0	8
Department of State [Great Lakes Fishery Commission]									
	15	11	0	4	0	0	0	0	0
Department of Transportation									
[Federal Highway Administration]	0	0	0	0	0	0	0	0	0
[Maritime Administration]	1	6	8	7	0	5	0	0	5
Environmental Protection Agency	100	117	123	89	173	146	200	200	146
Total, All Agencies	300	320	330	348	200	368	200	200	368

¹Agency allocations based on Total obligations on 07/04/2023 GLRI Financial Management Update. Agency allocations are based on budgets approved by regional working group agencies. ² FY 2024 amounts represent estimates and may change. Final agency allocations for FY 2024 will be determined once FY 2024 funds are appropriated.

Table 3—Department of Agriculture, National Programs

(Budget authority in millions)	FY 2019 Enacted	FY 2020 Enacted	FY 2021 Enacted	FY 2022 Enacted	FY 2022 IIJA Allocation	FY 2023 Enacted	FY 2023 IIJA Allocation	FY 2024 IIJA Allocation	FY 2024 Budget
Natural Resources Conservation Service									
Conservation Operations	21	19	16	16	0	16	0	0	16
Conservation Reserve Program	5	6	4	4	0	4	0	0	4
Conservation Stewardship Program ¹	69	49	32	32	0	32	0	0	32
Environmental Quality Incentives Program	93	72	54	54	0	54	0	0	54
Wetlands Reserve Program	1	0	6	0	0	0	0	0	0
Agricultural Conservation Easement Program	13	15	9	7	0	7	0	0	7
Total, NRCS	202	161	121	113	0.1	113	0	0	113
Agricultural Research Service									
Water Availability and Water Management	3	3	3	3	0	3	0	0	3
Sustainable Agricultural Systems Research ²	1	1	1	1	0	1	0	0	1
Total, ARS	4	4	4	4	0	4	0	0	4
Farm Service Agency									
Conservation Reserve Program	43	43	46	49	0	51	0	0	51
Total, FSA	43	43	46	49	0	51	0	0	51
National Institute of Food and Agriculture									
Hatch	2	4	3	3	0	3	0	0	3
Agriculture and Food Research Initiative Grants ³	2	2	3	2	0	3	0	0	4
Other (Combination of Programs) ⁴	0	1	2	0	0	1	0	0	1
Research at 1890 Institutions (Evans-Allen)	0	0	4	0	0	0	0	0	0
Total, NIFA	4	7	12	5	0	7	0	0	8
Rural Development									
Water / Wastewater Loans and Grants ⁵	82	61	72	59	0	29	0	0	84
Total, RD	82	61	72	59	0	29	0	0	84

Forest Service

Total, USDA	340	279	258	245	0	231	4	3	288
Total, FS	5	3	3	15	0.3	27	4	3	28
National Forest System ⁹	1	1	1	1.1	0.3	1.0	1.0	1.0	1.0
Knutsen-Vandenberg Fund ⁸	1	1	1	1	0	12	0	0	12
Working Forest Lands ⁷	1	1	1	2	0	2	3	2	0
Land and Water Conservation Fund: Forest Legacy ⁶	2	0	0	11	0	12	0	0	15
Capital Improvement and Maintenance	0	0	0	0	0	0	0	0	0

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 NIFA Programs which had a reportable level below the \$Million but contribute as defined in PL 113-76 Sec. 738 (33 USC 1268a): Research Grants for 1994 Institutions, Payments to the 1994 Institutions, Smith-Lever 3d Federally Recognized Tribes Extension Program, Organic Transition Program, Aquaculture Research, Renewable Resources Extension Act, and Beginning Farmer and Rancher Development Program

⁴ For Research at 1890 Institutions (Evans-Allen) only 2021 is reportable, with the \$Million threshold.

⁵ 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 Great Lakes Watershed (Watershed). WEP may make loans and 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 funds for that purpose. 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 might be considered part of the Watershed. During FYs 2019, 2021, 2022, and 2023 WEP carried a negative subsidy rate, so figures only reflect grant funds. The subsidy rate becomes positive for FY 2024, so the estimated funding in FY 2024 includes BA to support loan activity. As WEP does not receive set-aside appropriations for the Watershed, the FY 2023 figure represents the obligations as of June 26, 2023. With most of WEP's obligations occurring in Q3/Q4, the FY 2023 obligation level will change significantly by the end of FY 2023.

⁶ For FY 2020, no appropriations were provided for Forest Legacy.

⁷ 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.

⁸ Based on the ecosystem restoration outcomes driven by KV expenditures, the methodology employed for FY23 calculations and future projections includes estimated NFS unit-level KV expenditures occurring within the Great Lakes Basin. This is a refinement in process from prior years, during which a smaller fraction of KV spending within the Great Lakes Basin was identified as aligning with Great Lakes restoration activities.

⁹ 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 2019 Enacted	FY 2020 Enacted	FY 2021 Enacted	FY 2022 Enacted	FY 2022 IIJA Allocation	FY 2023 Enacted	FY 2023 IIJA Allocation	FY 2024 IIJA Allocation	FY 2024 Budget
Army Corps of Engineers Continuing Authorities Program (CAP) ^{1 &} 2	2	1	6	2	13	.58	1.60	1	4
Total, Department of the Army	2	1	6	2	13	.58	1.60	1	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.

Table 5—Department of the Army, Great Lakes Programs

FY 2019 Enacted	FY 2020 Enacted	FY 2021 Enacted	FY 2022 Enacted	FY 2022 IIJA Allocation	FY 2023 Enacted	FY 2023 IIJA Allocation	FY 2024 IIJA Allocation	FY 2024 Budget
5	6	6	4	0	5	0	0	5
0	0	0	3	0	0	0	0	0
5	6	6	7	0	5	0	0	5
	Enacted 5	Enacted Enacted 5 6 0 0	Enacted Enacted Enacted 5 6 6 0 0 0	Enacted Enacted Enacted 5 6 6 4 0 0 0 3	Enacted Enacted Enacted Enacted Allocation 5 6 6 4 0 0 0 0 3 0	Enacted Enacted Enacted Allocation Enacted 5 6 6 4 0 5 0 0 0 3 0 0	Enacted Enacted Enacted Allocation Enacted Allocation 5 6 6 4 0 5 0 0 0 0 3 0 0 0	Enacted Enacted Enacted Enacted Allocation Enacted Allocation 5 6 6 4 0 5 0 0 0 0 0 3 0 0 0 0

¹ The Budget amount is for the National Program for Surveillance of Northern Boundary Waters.

² The FY 2021 funding is for CAP Section 204, Beneficial Use of Dredged Material at Ashtabula, OH.

Table 6—Department of the Army, Great Lakes Projects

(Budget authority in millions)	FY 2019 Enacted	FY 2020 Enacted	FY 2021 Enacted	FY 2022 Enacted	FY 2022 IIJA Allocation	FY 2023 Enacted	FY 2023 IIJA Allocation	FY 2024 IIJA Allocation	FY 2024 Budget
Army Corps of Engineers									
Chicago Sanitary & Ship Canal Dispersal Barriers, IL ³	19	14	29	3	7	14	0	2	14
Brandon Road Lock and Dam, Aquatic Nuisance Species Barrier, IL	0	0	4	5	226	48	0	0	0
Indiana Shoreline Erosion, IN	3	3	0	3	0	1	0	0	0
Interbasin Control Great Lakes, Mississippi River, Aquatic Nuisance Species (coordination only) ¹	0	0	0	0	0	0	0	0	0
Presque Isle Peninsula, PA	2	1	2	2	0	0	0	0	2
McCook and Thornton Reservoirs ²	0	0	0	12	0	0	7	0	0
Total, Department of the Army	24	18	35	25	233	63	7	2	16

¹ This work was funded at \$200,000 in FY 2019, \$315,000 in FY 2020, \$335,000 in FY 2021, and \$200,000 in FY 2022, which rounds to zero for purposes of this report.

² The McCook Reservoir project was funded to completion in FY 2018 pursuant to Section 1043 of the Water Resources Reform and Development Act agreement with the non-Federal sponsor. FY 2022 funding is for reimbursement to the Metropolitan Water Reclamation District of Greater Chicago for costs associated with the design and construction of the Thornton Composite Reservoir.

³ This project is currently being funded with O&M funds.

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

(Budget authority in millions)	odget authority in millions) FY 2023 Budget Description		Status	Authorized Funding Level (\$M)
Army Corps of Engineers	13.75	System of electric barriers to deter movement of aquatic nuisance fish species between the Illinois River and Lake Michigan.	Funds will be used for commonly performed O&M work. IIJA funds will be used to augment/replace the existing grounding system on the east and west sides of the canal.	N/A
Chicago Sanitary & Ship Canal Dispersal Barriers, IL		Taver and Lake Michigan.	grounding system on the cust and west sides of the cundi.	
Presque Isle Peninsula, PA	1.50	Presque Isle Park is a state park in Erie, Pennsylvania. The Corps completed the initial construction of this project in November 1992, which consisted of a system of 55 rubblemound breakwaters located offshore on the lakeward side of Presque Isle Peninsula, and placement of approximately 531,000 cubic yards (cy) of sand fill on lands of the state park. The project authorization includes annual placement of sand for 50 years following the initial construction.	The FY 2024 funding would support the annual nourishment cycle for year 31 of 50.	N/A
Total, Department of the Army	15			

Table 8—Department of Commerce, National Programs

(Budget authority in millions)	FY 2019 Enacted	FY 2020 Enacted	FY 2021 Enacted	FY 2022 Enacted	FY 2022 IIJA Allocation	FY 2023 Enacted	FY 2023 IIJA Allocation ¹	FY 2024 IIJA Allocation ¹	FY 2024 Budget
National Oceanic and Atmospheric Administration	1								
Coastal Zone Management Grants	15	15	15	15	4	16	TBD	TBD	15
Title IX Grants (<i>Newly reported for FY19/FY20</i>) ²	3	1	1	1	7	TBD	TBD	TBD	0
National Center for Coastal Ocean Science External Competitive Research	1	1	1	1	0	2	0	TBD	TBD
Coastal Science, Assessment, Response and Restoration	2	1	1	0	0	1	0	0	TBD
National Estuarine Research Reserves	2	2	2	2	0	2	TBD	TBD	2
Sea Grant	12	15	15	15	0	14	1	TBD	15
National Marine Sanctuaries	3	3	3	3	1	1	1	TBD	0
Total, Department of Commerce	38	38	38	37	12	36	2	0	32

¹For funding listed as "TBD" -IIJA funds will be awarded through a national competition. Until the competition is completed, IIJA funding cannot be differentiated.

²The National Coastal Resilience Fund (NCRF) is a national competitive grants program. Until the competition is completed, there's no way to project which portion will be allocated to a particular geography.

Table 9—Department of Commerce, Great Lakes Programs

(Budget authority in millions)	FY 2019 Enacted	FY 2020 Enacted	FY 2021 Enacted	FY 2022 Enacted	FY 2022 IIJA Allocation	FY 2023 Enacted	FY 2023 IIJA Allocation ¹	FY 2024 IIJA Allocation ¹	FY 2024 Budget
National Oceanic and Atmospheric Administration									
Great Lakes Environmental Research Laboratory	11	11	11	14	3	15	3	2	15
Habitat Conservation and Restoration Lake Erie and Ontario Survey NOAA Ship Thomas Jefferson ²	0	0	0	0	9	0	2	TBD 0	TBD 0
Total, Department of Commerce	11	11	11	22	12	17	5	2	15

¹For funding listed as "TBD" -IIJA funds will be awarded through a national competition. Until the competition is completed, IIJA funding cannot be differentiated.

²NOAA ship Thomas Jefferson will conduct surveys ~ 137 days at sea - primary mission is to identify and chart all dangers to navigation and secondary mission is to improve coastal ecosystem management

Table 10—Department of the Interior, National Programs

(Budget authority in millions)	FY 2019 Enacted	FY 2020 Enacted	FY 2021 Enacted	FY 2022 Enacted	FY 2022 IIJA Allocation	FY 2023 Enacted	FY 2023 IIJA Allocation	FY 2024 IIJA Allocation	FY 2024 Budget
U.S. Geological Survey Ecosystems/Status and Trends Program	3	3	0	0	0	0	0	0	0
Ecosystems/Fisheries Program	4	7	0	0	0	0	0	0	0
, ,									-
Ecosystems/Wildlife Program Ecosystems/Environments	0	0	0	0	0	0	0	0	0
Program Ecosystems/Invasive Species	1	1	0	0	0	0	0	0	0
Program (invasive Carp) Ecosystems/Species Management	6	8	0	0	0	0	0	0	0
Research Program ¹ Ecosystems/Land Management	0	0	11	10	0	10	1	0	10
Research Program¹ Ecosystems/Biological Threats	0	0	1	1	0	1	1	1	1
Research Program (invasive Carp) ¹ Ecosystems/Climate Adaptation	0	0	8	9	0	9	0	0	8
Science Center ¹ Ecosystems/Environmental	0	0	1	1	0	1	0	0	1
Health ¹ Energy, Minerals & Environmental	0	0	0	1	0	1	0	0	1
Health	1	1	1	0	0	0	0	0	0
Land Resources/NRCASC Water Availability and Use Science	0	0	0	0	0	0	0	0	0
Program Groundwater and Streamflow	0	0	0	0	0	0	0	0	0
Information Program	3	3	3	3	0	3	0	0	3
National Water Quality Program Water Resources Availability	2	2	2	1	0	1	0	0	1
Program	0	0	0	0	0	0	0	0	0
Water Observing Systems Program Water Resources/Water Resources	0	0	0	0	0	0	0	0	0
Research Act National Cooperative Geologic	0	0	0	0	0	0	0	0	0
Mapping Program	1	4	5	5	0	5	0	0	4
National Geospatial Program	0	5	5	5	0	5	0	0	5
Fish and Wildlife Service									
Clean Vessel Grant Program	1	1	1	1	0	1	0	0	1

Coastal Wetlands Grant Program	2	2	2	1	0	1	0	0	1
Ecological Services	10	10	11	11	0	12	0	0	15
Fire Management/Roads	2	2	2	2	0	2	0	0	2
Fish and Wildlife Management	4	4	4	4	0	4	0	0	5
Fish Hatcheries Aquatic Invasive Species (invasive	4	4	5	5	2	5	0	TBD	6
Carp)	6	13	13	13	0	13	0	0	13
Law Enforcement	2	2	2	2	0	2	0	0	2
National Wildlife Refuge System	12	12	14	15	0	17	0	0	18
National Park Service Competitive Park Projects (Water	0	0	0	0	0	0	0	0	0
Management Plans)	0	0	0	0	0	0	0	0	U
Operating Program Vital Sign Water Quality	5	5	5	5	0	6	0	0	6
Monitoring	1	1	1	1	0	1	0	0	1
Total, Department of the Interior	68	89	94	94	2	98	2	1	103

Table 11—Department of the Interior, Great Lakes Programs

(Budget authority in millions)	FY 2019 Enacted	FY 2020 Enacted	FY 2021 Enacted	FY 2022 Enacted	FY 2022 IIJA Allocation	FY 2023 Enacted	FY 2023 IIJA Allocation	FY 2024 IIJA Allocation	FY 2024 Budget
Fish and Wildlife Service									
Great Lakes Consent Decree	1	1	2	1	0	2	0	0	2
Great Lakes Fish and Wildlife Restoration	1	1	1	2	0	3	0	0	1
Total, Department of the Interior	2	2	3	3	0	5	0	0	3

Table 12—Department of State, Great Lakes Programs

(Budget authority in millions)	FY 2019 Enacted	FY 2020 Enacted	FY 2021 Enacted	FY 2022 Enacted	FY 2022 IIJA Allocation	FY 2023 Enacted	FY 2023 IIJA Allocation	FY 2024 IIJA Allocation	FY 2024 Budget
Great Lakes Fishery Commission	47	47	47	47	0	50	0	0	38
International Joint Commission	2	2	2	2	0	3	0	0	3
Total, Department of State	49	49	49	49	0	53	0	0	41

Table 13—Environmental Protection Agency, National Programs¹

(Budget authority in millions)	FY 2019 Enacted	FY 2020 Enacted	FY 2021 Enacted	FY 2022 Enacted	FY 2022 IIJA Allocation	FY 2023 Enacted	FY 2023 IIJA Allocation	FY 2024 IIJA Allocation	FY 2024 Budget
Clean Water State Revolving Fund	186	186	186	134	220	88	TBD	TBD	186
Section 105 Clean Air Grants	1	1	1	1	0	1	0	TBD	TBD
Section 106 Clean Water Grants	16	16	16	16	0	16	0	0	19
Section 319 Nonpoint Source Grants	5	5	5	5	0	5	0	0	TBD
Superfund Remedial ^{2,3}	19	30	24	7	27	TBD	TBD	TBD	TBD
Wetlands State Grants	1	0	1.6	1.5	0	1.5	0	0	TBD
Total, Environmental Protection Agency	228	238	234	165	247	112	0	0	205

¹ FY 2023 and FY 2024 will be available at a later date, as states have just received their data.

² Obligation data does not signify investment or disinvestment trends in cleanups in the Great Lakes watershed, but rather annual resource use at individual sites as they move through the Superfund cleanup process.

³ FY 2023 and FY 2024 IIJA and appropriated data are not provided as they are enforcement confidential and do not reflect "approved" plans.