

GREAT LAKES RESTORATION CROSSCUT

Report to Congress

Office of Management and Budget

November 2019

The Great Lakes Watershed



2019 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) 2020 Budget signals a commitment to Great Lakes environmental restoration by requesting \$834 million 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 2015 through the FY 2020 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 2019 and FY 2020 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 2015 to FY 2020 are excluded, and rounding errors may occur.

OMB and the agencies are considering reviewing the scope of future year crosscuts. This crosscut and those produced for prior years include activities that directly fund improvements to the overall health of the Great Lakes ecosystem as well as related activities including administrative funding, regulatory programs, and infrastructure projects with indirect ecosystem protection benefits.

Table 1--Federal Agency Totals

(Budget authority in millions)	FY 2015 Enacted	FY 2016 Enacted	FY 2017 Enacted	FY 2018 Enacted	FY 2019 Enacted	FY 2020 Budget
Great Lakes Restoration Initiative	300	300	300	300	300	300
Department of Agriculture	190	234	250	303	268	265
Department of the Army	104	53	33	77	32	22
Department of Commerce	40	40	41	44	47	15
Department of Homeland Security	1	0	0	0	0	0
Department of the Interior	67	70	70	69	71	67
Department of State	27	27	27	35	45	28
Department of Transportation	4	0	0	0	0	0
Environmental Protection Agency	211	197	198	238	208	137
Total, All Agencies	944	921	919	1,066	971	834

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

All tables exclude programs and projects that have received or requested less than \$500,000 across FYs 2014-2019.

Table 2--Great Lakes Restoration Initiative, Agency Allocations

(Budget authority in millions)	FY 2015 Enacted	FY 2016 Enacted	FY 2017 Enacted	FY 2018 Enacted	FY 2019 Enacted	FY 2020 Budget
Department of Agriculture	31	31	35	37	34	32
<i>[Animal and Plant Health Inspection Service]</i>	1	1	1	1	1	1
<i>[Natural Resources Conservation Service]</i>	23	19	22	25	21	22
<i>[U.S. Forest Service]</i>	6	11	11	10	12	8
Department of the Army	48	33	56	48	60	10
<i>[Army Corps of Engineers]</i>	48	33	56	48	60	10
Department of Commerce	25	31	12	25	17	9
<i>[National Oceanic and Atmospheric Administration]</i>	25	31	12	25	17	9
Department of Health and Human Services	2	2	1	1	1	1
<i>[Agency for Toxic Substances and Disease Registry and Center for Disease Control]</i>	2	2	1	1	1	1
Department of Homeland Security	2	1	2	1	2	1
<i>[Coast Guard]</i>	2	1	2	1	2	1
Department of the Interior	73	81	84	94	79	47
<i>[Bureau of Indian Affairs]</i>	5	6	11	12	10	15
<i>[Fish and Wildlife Service]</i>	41	48	42	53	46	25
<i>[U.S. Geological Survey]</i>	23	23	27	26	20	6
<i>[National Park Service]</i>	3	4	4	4	4	2
Department of State	3	4	6	10	10	8
<i>[Great Lakes Fisheries Commission]</i>	3	4	6	10	10	8
Department of Transportation	1	2	1	1	1	1
<i>[Maritime Administration]</i>	1	2	1	1	1	1
Environmental Protection Agency	115	115	105	84	97	113
Multiple Agencies						77¹
Total, All Agencies	300	300	300	300	300	300

1) Agency GLRI allocations for portions of the funding for AOCs, Invasive Species, Habitat, and Foundations for Future Restoration activities are still being determined for FY 2020 as of the date of this information request.

Table 3--Department of Agriculture, National Programs

(Budget authority in millions)	FY 2015 Actual	FY 2016 Actual	FY 2017 Actual	FY 2018 Actual	FY 2019 Enacted	FY 2020 Budget
Natural Resources Conservation Service						
Conservation Operations	19	22	22	21	21	21
Agricultural Water Enhancement Program ^{1/}	1	0	0	0	0	0
Conservation Reserve Program ^{2/}	4	4	5	5	5	5
Conservation Security Program	2	0	0	0	0	0
Conservation Stewardship Program	27	25	29	27	27	27
Environmental Quality Incentives Program ^{3/}	43	78	76	91	91	91
Wetlands Reserve Program ^{1/}	4	2	2	2	0	0
Agricultural Conservation Easement Program	10	11	13	8	8	8
Total, NRCS	110	142	147	154	152	152
Agricultural Research Service						
Water Availability and Water Management	0	0	2	2	3	2
Agricultural System Competitiveness & Sustainability	0	0	1	1	1	1
Total, ARS	0	0	3	3	4	3
Farm Service Agency						
Conservation Reserve Program	46	45	46	43	45	45
Total, FSA	46	45	46	43	45	45
National Institute of Food and Agriculture						
Hatch	0	1	1	1	1	1
Agriculture and Food Research Initiative Grants	0	2	2	2	2	3
Total, NIFA	0	3	3	3	3	4
Rural Development						
Water / Wastewater Loans and Grants ^{4/}	26	35	46	97	59	59
Total, RD	26	35	46	97	59	59
Forest Service						
Capital Improvement and Maintenance	4	4	0	0	0	0
Land and Water Conservation Fund: Forest Legacy ^{5/}	1	1	0	0	2	0
Forest Stewardship	1	2	3	1	1	0
Knutsen-Vandenberg Fund	1	1	1	1	1	1
National Forest System	1	1	1	1	1	1
Total, FS	8	9	5	3	5	2
Total, USDA	190	234	250	303	268	265

^{1/} These programs were repealed by the Agricultural Act of 2014 and the program purposes were incorporated into other programs.

^{2/} Prior to FY 2014, technical assistance funding for CRP was provided to NRCS through reimbursable agreements with the Farm Service Agency.

^{3/} Beginning in FY 2015, includes funding for Regional Conservation Partnership Program (RCPP) agreements, which are reported under the parent program.

^{4/} BA for FY 2015 thru FY 2018 is based upon actual obligations. FYs 2019 and 2020 are based on prior years' obligation averages.

^{5/} In FY 2019, the Forest Legacy Program provided \$1,500,000 to the Elk Forest at Black River project in Michigan for fee acquisition of 597 acres. It is located in Montmorency County and Lake Huron sub-basin. For FY 2020, no funds were requested in the President's Budget for Forest Legacy.

^{6/} Forest Stewardship (Working Forest Lands) Program had a significant budget cut in FY 2018. FY 2019 figure includes LSR projects associated with the watershed. FY2020 amount only includes projected FSP funding. It does not include LSR projects since those are competitive projects and will be awarded after funds are appropriated and projects reviewed.

Table 4--Department of the Army, National Programs

(Budget authority in millions)	FY 2015 Enacted	FY 2016 Enacted	FY 2017 Enacted	FY 2018 Enacted	FY 2019 Enacted	FY 2020 Budget
Army Corps of Engineers						
Continuing Authorities Program	2	0	0	3	3	3
Total, Department of the Army	2	0	0	3	3	3

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

(Budget authority in millions)	FY 2015 Enacted	FY 2016 Enacted	FY 2017 Enacted	FY 2018 Enacted	FY 2019 Enacted	FY 2020 Budget
Army Corps of Engineers						
Great Lakes Tributary Model	1	1	1	0	0	0
Surveillance of Northern Boundary Waters	5	6	6	6	5	5
Total, Department of the Army	6	6	7	6	5	5

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

(Budget authority in millions)	FY 2015 Enacted	FY 2016 Enacted	FY 2017 Enacted	FY 2018 Enacted	FY 2019 Enacted	FY 2020 Budget
Army Corps of Engineers						
Chicago Sanitary & Ship Canal Dispersal Barriers	50	30	12	17	19	14
Indiana Shoreline Erosion	0	2	2	3	3	0
Interbasin Control Great Lakes, Mississippi River, Aquatic Nuisance Species*	1	1	3	2	0	0
Presque Isle Peninsula	0	0	2	2	2	0
McCook and Thornton Reservoirs	46	14	7	44	0	0
Total, Department of the Army	96	47	26	68	24	14

*This project was funded at \$200,000 in FY 2019 and \$50,000 in the FY 2020 Budget, which rounds to zero for the purposes of this report.

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

(Budget authority in millions)	FY 2020 Budget	Description	Status	Authorized Funding Level (\$M)
Army Corps of Engineers				
Chicago Sanitary & Ship Canal Dispersal Barriers	14	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. A permanent upgrade of the Demonstration Barrier, authorized by WRDA 2007, is currently under construction and has been funded for completion. The FY 2020 Budget amount will be used for operation and maintenance of the electric dispersal barriers system.	no limit
Total, Department of the Army	14			

Table 8--Department of Commerce, National Programs

(Budget authority in millions)	FY 2015 Enacted	FY 2016 Enacted	FY 2017 Enacted	FY 2018 Enacted	FY 2019 Enacted	FY 2020 Budget
National Oceanic and Atmospheric Administration						
Coastal Zone Management Grants	15	14	13	14	15	0
Title IX Grants (<i>Newly reported for FY19/FY20</i>) ¹	-	-	-	-	3	0
National Center for Coastal Ocean Science External Competitive Research ²	1	0	0	1	1	0
Coastal Science, Assessment, Response and Restoration	0	1	2	2	2	1
National Estuarine Research Reserves	1	1	1	1	2	0
Marine and Aviation Ops charter vessel for Algal Bloom projects	0	0	0	0	0	0
Sea Grant	12	12	12	12	12	0
National Marine Sanctuaries	1	1	2	2	3	3
Total, Department of Commerce	30	30	30	33	36	4

¹ Funding in FY19 is estimated based on FY18 actuals. Actual amounts will vary based on the annual review process.

² 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 by NOAA.

Table 9--Department of Commerce, Great Lakes Programs

(Budget authority in millions)	FY 2015 Enacted	FY 2016 Enacted	FY 2017 Enacted	FY 2018 Enacted	FY 2019 Enacted	FY 2020 Budget
National Oceanic and Atmospheric Administration						
Great Lakes Environmental Research Laboratory	10	11	11	11	11	11
Total, Department of Commerce	10	11	11	11	11	11

Table 10--Department of Homeland Security, National Programs

(Budget authority in millions)	FY 2015 Enacted	FY 2016 Enacted	FY 2017 Enacted	FY 2018 Enacted	FY 2019 Enacted	FY 2020 Budget
Coast Guard						
Environmental, Compliance and Restoration -- Toxics and Contaminated Sediments	1	0	0	0	0	0
Total, Department of Homeland Security	1	0	0	0	0	0

Table 11--Department of the Interior, National Programs

(Budget authority in millions)	FY 2015 Enacted	FY 2016 Enacted	FY 2017 Enacted	FY 2018 Enacted	FY 2019 Enacted	FY 2020 Budget
U.S. Geological Survey						
Ecosystems/Status and Trends Program	3	3	3	3	3	0
Ecosystems/Fisheries Program	4	4	4	4	4	0
Ecosystems/Environments Program	1	1	1	1	1	0
Ecosystems/Invasive Species Program (Asian Carp)	5	5	5	4	6	0
Ecosystems/Species Management Research	0	0	0	0	0	6
Ecosystems/Land Management Research Program	0	0	0	0	0	1
Ecosystems/Biological Threats Research Program	0	0	0	0	0	4
Water Availability and Use Science Program	0	1	1	1	1	0
Groundwater and Streamflow Information Program	0	1	3	3	3	0
National Streamflow Information Program	1	0	0	0	0	0
Cooperative Water Program	3	0	0	0	0	0
National Water Quality Program	3	2	2	2	2	0
Water Resources Availability Program (new in 2020)	0	0	0	0	0	2
Water Observing Systems Program (new in 2020)	0	0	0	0	0	3
National Cooperative Geologic Mapping Program	0	1	1	1	1	1
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	10	10
Fire Management/Roads	2	2	2	2	2	2
Fish and Wildlife Management	4	4	4	4	4	4
Fish Hatcheries	4	4	4	4	4	4
Aquatic Invasive Species (Asian Carp)	3	5	6	6	6	5
Law Enforcement	2	2	2	2	2	2
National Wildlife Refuge System	11	12	12	12	12	12
National Park Service						
Competitive Park Projects (Water Management Plans)	0	0	1	0	0	0
Operating Program	7	8	5	5	5	5
Vital Sign Water Quality Monitoring	0	0	0	1	1	1
Total, Department of the Interior	65	68	68	67	70	66

Table 12--Department of the Interior, Great Lakes Programs

(Budget authority in millions)	FY 2015 Enacted	FY 2016 Enacted	FY 2017 Enacted	FY 2018 Enacted	FY 2019 Enacted	FY 2020 Budget
Fish and Wildlife Service						
Great Lakes Consent Decree	1	1	1	1	1	1
Great Lakes Fish and Wildlife Restoration	1	1	1	1	0	0
Total, Department of the Interior	2	2	2	2	1	1

Table 13--Department of State, Great Lakes Programs

(Budget authority in millions)	FY 2015 Enacted	FY 2016 Enacted	FY 2017 Enacted	FY 2018 Enacted	FY 2019 Enacted	FY 2020 Budget
Great Lakes Fishery Commission	25	25	25	33	37	21
International Joint Commission	2	2	2	2	8	7
Total, Department of State	27	27	27	35	45	28

Table 14--Department of Transportation, National Programs

(Budget authority in millions)	FY 2015 Enacted	FY 2016 Enacted	FY 2017 Enacted	FY 2018 Enacted	FY 2019 Enacted	FY 2020 Budget
Department of Transportation ¹	4	0	0	0	0	0
Total, Department of Transportation	4	0	0	0	0	0

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 funding amounts for FY 2014 - FY 2015 are estimates and are not based on reported data. DOT is reporting \$0 for FY 2016, FY 2017, FY 2018, and FY 2019 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 15--Environmental Protection Agency, National Programs

(Budget authority in millions)	FY 2015 Enacted	FY 2016 Enacted	FY 2017 Enacted	FY 2018 Enacted	FY 2019 Enacted	FY 2020 Budget
Clean Water State Revolving Fund ¹	164	157	155	188	186	126
Section 105 Clean Air Grants ¹	1	1	1	1	1	0
Section 106 Clean Water Grants ¹	16	16	16	15	16	11
Section 319 Nonpoint Source Grants ^{1,4}	5	3	3	4	4	0
Superfund Remedial ^{2,3}	24	18	21	29	TBD	TBD
Wetlands State Grants ¹	1	2	2	1	1	0
Total, Environmental Protection Agency	211	197	198	238	208	137

¹ FY 2020 represent estimates based on previous allocations. Final amounts may differ.

² FY 2018 numbers have been updated to reflect actual obligations. 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 2019 and FY 2020 data are not provided as they are enforcement confidential and do not reflect "approved" plans.

⁴Reflects current snapshot of FY 2019 funded projects. As additional projects are reported, estimates could be higher.