

# GREAT LAKES RESTORATION CROSSCUT

Report to Congress

Office of Management and Budget

November 2020

# The Great Lakes Watershed



## **2020 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) 2021 Budget continues the Administration's commitment to the restoration of the Great Lakes ecosystem by requesting \$902 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 2016 through the FY 2021 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 2020 and FY 2021 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 2016 to FY 2021 are excluded, and rounding errors may occur.

**Table 1--Federal Agency Totals**

(Budget authority in millions) <sup>1,2</sup>	FY 2016 Enacted	FY 2017 Enacted	FY 2018 Enacted	FY 2019 Enacted	FY 2020 Enacted	FY 2021 Budget
Great Lakes Restoration Initiative	300	300	300	300	320	320
Department of Agriculture	244	251	301	338	303	316
Department of the Army	53	33	77	31	25	23
Department of Commerce	41	41	44	47	49	15
Department of Homeland Security <sup>3</sup>	0	0	0	0	0	0
Department of the Interior	67	68	67	71	94	68
Department of State	27	27	35	39	49	23
Department of Transportation <sup>4</sup>	0	0	0	0	0	0
Environmental Protection Agency	197	198	238	227	203	137
<b>Total, All Agencies</b>	<b>929</b>	<b>918</b>	<b>1062</b>	<b>1053</b>	<b>1043</b>	<b>902</b>

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

<sup>2</sup> All tables exclude programs and projects that have received or requested less than \$500,000 across FYs 2016-2021.

<sup>3</sup> 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.

<sup>4</sup> While DOT does not make any direct programmatic funding contributions to Great Lakes Restoration, DOT receives some funding through the GLIR and States use DOT funds for a variety of environmental mitigation activities that have undoubtedly contributed to restoration efforts. DOT is reporting \$0 for FY 2016, FY 2017, FY 2018, and FY 2019, and FY 2020 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 2016 Enacted	FY 2017 Enacted	FY 2018 Enacted	FY 2019 Enacted	FY 2020 Enacted	FY 2021 Budget
<b>Department of Agriculture</b>	<b>31</b>	<b>35</b>	<b>37</b>	<b>34</b>	<b>34</b>	<b>34</b>
Animal and Plant Health Inspection Service	1	1	1	1	1	1
Natural Resources Conservation Service	19	22	25	21	22	22
U.S. Forest Service	11	11	10	12	10	10
<b>Department of the Army</b>	<b>33</b>	<b>56</b>	<b>44</b>	<b>41</b>	<b>34</b>	<b>12</b>
Army Corps of Engineers	33	56	44	41	34	12
<b>Department of Commerce</b>	<b>31</b>	<b>12</b>	<b>25</b>	<b>29</b>	<b>29</b>	<b>7</b>
National Oceanic and Atmospheric Administration	31	12	25	29	29	7
<b>Department of Health and Human Services</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>
Agency for Toxic Substances and Disease Registry and Center for Disease Control	2	1	1	0	0	1
<b>Department of Homeland Security</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>1</b>
Coast Guard	1	2	1	2	1	1
<b>Department of the Interior</b>	<b>81</b>	<b>84</b>	<b>94</b>	<b>81</b>	<b>88</b>	<b>59</b>
Bureau of Indian Affairs	6	11	12	10	16	15
Fish and Wildlife Service	48	42	53	46	51	32
U.S. Geological Survey	23	27	26	22	17	8
National Park Service	4	4	4	4	4	4
<b>Department of State</b>	<b>4</b>	<b>6</b>	<b>10</b>	<b>15</b>	<b>9</b>	<b>0</b>
Great Lakes Fishery Commission	4	6	10	15	9	0
<b>Department of Transportation</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>6</b>	<b>1</b>
Maritime Administration	2	1	1	1	6	1
<b>Environmental Protection Agency</b>	<b>115</b>	<b>105</b>	<b>89</b>	<b>97</b>	<b>121</b>	<b>139</b>
<b>Multiple Agencies<sup>1</sup></b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>67</b>
<b>Total, All Agencies</b>	<b>300</b>	<b>300</b>	<b>300</b>	<b>300</b>	<b>320</b>	<b>320</b>

<sup>1</sup> Agency Great Lakes Restoration Initiative (GLRI) allocations for portions of the funding for Area of Concerns (AOCs), Invasive Species, Habitat, and Foundations for Future Restoration activities, are still being determined for FY 2021 as of the date of this information request.

**Table 3--Department of Agriculture, National Programs**

(Budget authority in millions)	FY 2016 Actual	FY 2017 Actual	FY 2018 Actual	FY 2019 Actual	FY 2020 Enacted	FY 2021 Budget
<b>Natural Resources Conservation Service</b>						
Conservation Operations	22	22	21	21	18	18
Conservation Reserve Program	4	5	5	5	6	6
Conservation Stewardship Program <sup>1</sup>	25	29	27	69	65	65
Environmental Quality Incentives Program	78	76	91	93	90	90
Wetlands Reserve Program	2	2	2	1	0	0
Agricultural Conservation Easement Program	11	13	8	13	15	15
<b>Total, NRCS</b>	<b>142</b>	<b>147</b>	<b>154</b>	<b>202</b>	<b>194</b>	<b>194</b>
<b>Agricultural Research Service</b>						
Water Availability and Water Management	0	2	2	3	3	3
Sustainable Agricultural Systems Research <sup>2</sup>	0	1	1	1	1	1
<b>Total, ARS</b>	<b>0</b>	<b>3</b>	<b>3</b>	<b>4</b>	<b>4</b>	<b>4</b>
<b>Farm Service Agency</b>						
Conservation Reserve Program	55	47	42	43	46	46
<b>Total, FSA</b>	<b>55</b>	<b>47</b>	<b>42</b>	<b>43</b>	<b>46</b>	<b>46</b>
<b>National Institute of Food and Agriculture</b>						
Hatch	1	1	1	1	1	1
Agriculture and Food Research Initiative Grants	2	2	2	2	2	3
<b>Total, NIFA</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>4</b>
<b>Rural Development</b>						
Water / Wastewater Loans and Grants <sup>3</sup>	35	46	97	82	53	65
<b>Total, RD</b>	<b>35</b>	<b>46</b>	<b>97</b>	<b>82</b>	<b>53</b>	<b>65</b>
<b>Forest Service</b>						
Capital Improvement and Maintenance	4	0	0	0	0	0
Land and Water Conservation Fund: Forest Legacy <sup>4</sup>	1	0	0	2	0	0
Working Forest Lands <sup>5</sup>	2	3	1	1	1	1
Knutsen-Vandenberg Fund	1	1	1	1	1	1
National Forest System <sup>6</sup>	1	1	1	1	1	1
<b>Total, FS</b>	<b>9</b>	<b>5</b>	<b>3</b>	<b>5</b>	<b>3</b>	<b>3</b>
<b>Total, USDA</b>	<b>244</b>	<b>251</b>	<b>301</b>	<b>338</b>	<b>303</b>	<b>316</b>

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

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

<sup>3</sup> The Rural Utilities Service's Water and Environmental Programs do 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. FY21 is a four-year average of FY16-19 data.

<sup>4</sup> For FY 2020, no appropriations were provided for Forest Legacy. For FY 2021, the project list will be determined after a final appropriation bill is enacted.

<sup>5</sup> 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.

<sup>6</sup> 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 2016 Enacted	FY 2017 Enacted	FY 2018 Enacted	FY 2019 Enacted	FY 2020 Enacted	FY 2021 Budget
<b>Army Corps of Engineers</b>						
Continuing Authorities Program (CAP)	0	0	3	2	1	3
<b>Total, Department of the Army</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>3</b>

<sup>1</sup> 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 2016 Enacted	FY 2017 Enacted	FY 2018 Enacted	FY 2019 Enacted	FY 2020 Enacted	FY 2021 Budget
<b>Army Corps of Engineers</b>						
Great Lakes Tributary Model	1	1	0	0	0	0
Surveillance of Northern Boundary Waters	6	6	6	5	6	6
<b>Total, Department of the Army</b>	<b>6</b>	<b>7</b>	<b>6</b>	<b>5</b>	<b>6</b>	<b>6</b>

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

(Budget authority in millions)	FY 2016 Enacted	FY 2017 Enacted	FY 2018 Enacted	FY 2019 Enacted	FY 2020 Enacted	FY 2021 Budget
<b>Army Corps of Engineers</b>						
Chicago Sanitary & Ship Canal Dispersal Barriers	30	12	17	19	14	14
Indiana Shoreline Erosion	2	2	3	3	3	0
Interbasin Control Great Lakes, Mississippi River, Aquatic Nuisance Species <sup>1</sup>	1	3	2	0	0	0
Presque Isle Peninsula	0	2	2	2	1	0
McCook and Thornton Reservoirs <sup>2</sup>	14	7	44	0	0	0
<b>Total, Department of the Army</b>	<b>47</b>	<b>26</b>	<b>68</b>	<b>24</b>	<b>18</b>	<b>14</b>

<sup>1</sup>This project was funded at \$200,000 in FY 2019, \$315,000 in FY 2020, and \$50,000 in the FY 2021 Budget, which rounds to zero for purposes of this report.

<sup>2</sup>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 2021 Budget	Description	Status	Authorized Funding Level (\$M)
<b>Army Corps of Engineers</b>				
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 2021 funds will be used for operation and maintenance of the entire electric dispersal barriers system	no limit
<b>Total, Department of the Army</b>	<b>14</b>			



**Table 8--Department of Commerce, National Programs**

(Budget authority in millions)	FY 2016 Enacted	FY 2017 Enacted	FY 2018 Enacted	FY 2019 Enacted	FY 2020 Enacted	FY 2021 Budget
<b>National Oceanic and Atmospheric Administration</b>						
Coastal Zone Management Grants	14	13	14	15	15	0
Title IX Grants ( <i>Newly reported for FY19/FY20</i> ) <sup>1</sup>	N/A	N/A	N/A	3	1	0
National Center for Coastal Ocean Science External Competitive Research <sup>2</sup>	0	0	1	1	1	0
Coastal Science, Assessment, Response and Restoration	1	2	1	2	1	1
National Estuarine Research Reserves	1	1	1	2	2	0
Marine and Aviation Ops charter vessel for Algal Bloom projects	0	0	0	0	0	0
Sea Grant	12	12	12	12	15	0
National Marine Sanctuaries	1	2	2	3	3	3
<b>Total, Department of Commerce</b>	<b>30</b>	<b>30</b>	<b>33</b>	<b>36</b>	<b>38</b>	<b>4</b>

<sup>1</sup> Funding in FY20 is estimated based on FY19 actuals. Actual amounts will vary based on the annual review process.

<sup>2</sup> 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 2016 Enacted	FY 2017 Enacted	FY 2018 Enacted	FY 2019 Enacted	FY 2020 Enacted	FY 2021 Budget
<b>National Oceanic and Atmospheric Administration</b>						
Great Lakes Environmental Research Laboratory	11	11	11	11	11	11
<b>Total, Department of Commerce</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>

**Table 10--Department of the Interior, National Programs**

(Budget authority in millions)	FY 2016 Enacted	FY 2017 Enacted	FY 2018 Enacted	FY 2019 Enacted	FY 2020 Enacted	FY 2021 Budget
<b>U.S. Geological Survey</b>						
Ecosystems/Status and Trends Program	3	3	3	3	2	0
Ecosystems/Fisheries Program	4	4	4	4	7	0
Ecosystems/Environments Program	1	1	1	1	1	0
Ecosystems/Invasive Species Program (Asian Carp)	4	4	4	6	8	0
Ecosystems/Species Management Research	0	0	0	0	0	4
Ecosystems/Biological Threats Research Program (Asian Carp)	0	0	0	0	0	4
Energy, Minerals & Environmental Health	0	0	0	1	1	0
Land Resources/NRCASC	0	0	0	0	4	0
Water Availability and Use Science Program	1	1	1	1	0	0
Groundwater and Streamflow Information Program	1	3	3	3	3	0
National Water Quality Program	2	2	2	2	2	0
Water Resources Availability Program	0	0	0	0	0	1
Water Observing Systems Program	0	0	0	0	0	3
National Cooperative Geologic Mapping Program	1	1	1	1	1	0
National Geospatial Program	0	0	0	0	5	5
<b>Fish and Wildlife Service</b>						
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	5	4
Aquatic Invasive Species (Asian Carp)	5	6	6	6	15	5
Law Enforcement	2	2	2	2	2	2
National Wildlife Refuge System	12	12	12	12	13	14
<b>National Park Service</b>						
Competitive Park Projects (Water Management Plans)	0	1	0	0	0	0
Operating Program	8	5	5	5	5	5
Vital Sign Water Quality Monitoring	0	0	1	1	1	0
<b>Total, Department of the Interior</b>	<b>67</b>	<b>68</b>	<b>67</b>	<b>71</b>	<b>94</b>	<b>68</b>

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

(Budget authority in millions)	FY 2016 Enacted	FY 2017 Enacted	FY 2018 Enacted	FY 2019 Enacted	FY 2020 Enacted	FY 2021 Budget
<b>Fish and Wildlife Service</b>						
Great Lakes Consent Decree	1	1	1	1	1	1
Great Lakes Fish and Wildlife Restoration	0	0	0	0	1	0
<b>Total, Department of the Interior</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>1</b>

**Table 12--Department of State, Great Lakes Programs**

(Budget authority in millions)	FY 2016 Enacted	FY 2017 Enacted	FY 2018 Enacted	FY 2019 Enacted	FY 2020 Enacted	FY 2021 Budget
Great Lakes Fishery Commission	25	25	33	37	47	21
International Joint Commission	2	2	2	2	2	2
<b>Total, Department of State</b>	<b>27</b>	<b>27</b>	<b>35</b>	<b>39</b>	<b>49</b>	<b>23</b>

**Table 13--Environmental Protection Agency, National Programs**

(Budget authority in millions)	FY 2016 Enacted	FY 2017 Enacted	FY 2018 Enacted	FY 2019 Enacted	FY 2020 Enacted	FY 2021 Budget
Clean Water State Revolving Fund <sup>1</sup>	157	155	188	186	186	126
Section 105 Clean Air Grants <sup>1</sup>	1	1	1	1	1	0
Section 106 Clean Water Grants <sup>1</sup>	16	16	15	16	16	11
Section 319 Nonpoint Source Grants <sup>1,4</sup>	3	3	4	4	0	0
Superfund Remedial <sup>2,3</sup>	18	21	29	19	TBD	TBD
Wetlands State Grants	2	2	1	1	0	0
<b>Total, Environmental Protection Agency</b>	<b>197</b>	<b>198</b>	<b>238</b>	<b>227</b>	<b>203</b>	<b>137</b>

<sup>1</sup> FY 2021 represents estimates based on previous allocations. Final amounts may differ.

<sup>2</sup> FY 2019 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.

<sup>3</sup> FY 2020 and FY 2021 data are not provided as they are enforcement confidential and do not reflect "approved" plans.

<sup>4</sup>Reflects current snapshot of funded projects. As additional projects are reported, estimates could be higher. FY 2020 and FY 2021 data will be available at a later date as the states have only just received their data and very few, if any, projects are underway.