

# MI Sea Grant Program

## Site Review PIER Information

(Information gathered from the Program's Annual Report Submissions in PIER)

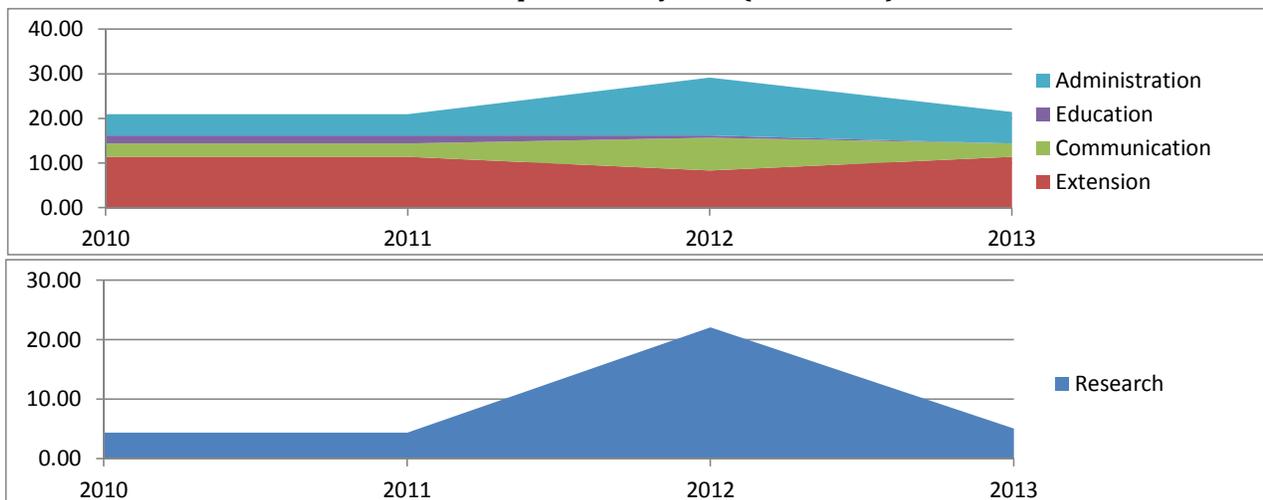
### I. Program Management and Organization (organization, program team approach, support).

#### A. Sea Grant Staffing (2010-2013)

	Range of Annual Number of Individuals	Average Annual Full-Time Equivalents*
<b>Administration</b>	6-8	7.4
<b>Extension</b>	12-13	10.7
<b>Communication</b>	3-4	4.1
<b>Education</b>	0-2	1.0
<b>Research</b>	14-16	9.0

\*One FTE is equivalent to 12 months of full time effort, and can be funded with Sea Grant Federal or non-Federal dollars.

**Full Time Equivalents by Year (2010-2013)**

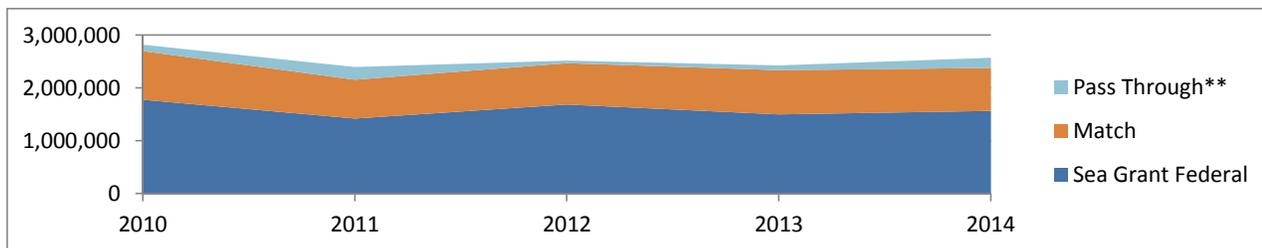


#### B. Total Funding by Source (2010-2014)

	Sea Grant Federal	Match	Pass Through**	Total Funding
<b>2010</b>	1,776,039	924,513	116,420	2,816,972
<b>2011</b>	1,421,256	737,661	240,992	2,399,909
<b>2012</b>	1,684,818	786,960	49,000	2,520,778
<b>2013</b>	1,497,819	838,416	91,927	2,428,162
<b>2014</b>	1,567,786	810,184	193,553	2,571,523

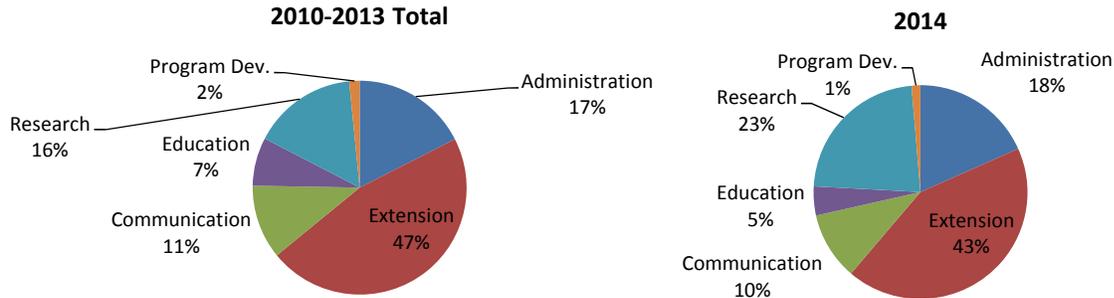
\*\* Pass Through funding refers to federal funds not appropriated to Sea Grant, but administered through the National Sea Grant Office

**Funding by Year (2010-2013)**

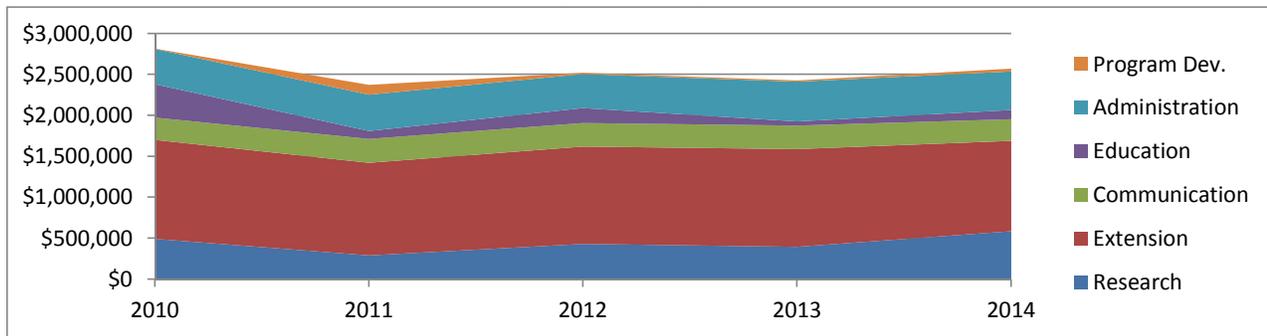


**C. Distribution of Funding by Functional Area (Federal + Match + Pass Through)**

	2010	2011	2012	2013	2014
Administration	430,606	445,072	414,026	483,987	471,877
Extension	1,211,607	1,130,932	1,191,388	1,191,361	1,102,666
Communication	271,059	290,954	287,506	287,506	263,238
Education	409,333	96,000	182,000	52,500	113,000
Research	490,224	290,459	428,414	395,364	586,377
Program Dev.	4,143	118,940	17,444	17,444	34,365



**Trend (2010-2014)**



**D. Total Number of Core Funded Proposals (Not NSIs)**

	2011	2013
Pre-Proposals Submitted	13	10
Full Proposals Submitted	4	5
Proposals Funded	3	3
Institutions with Proposals Funded	2	3
Proposals Funded from Home Institution	0	1

**E. Core-Funded Research Projects**

**2014**

Coastal Community Development (William Taylor)

Development of Stable Open Channel Design Criteria (Carol J. Miller)

Governance Approaches to Foster Great Lakes Literacy, Identity and Stewardship: An Integrated

Where People Meet the Muck: An Integrated Assessment of Beach Muck and Public Perception at the Bay City State Recreation Area, Saginaw Bay, Lake Huron (Donna Kashian)

Minibus - Using an Integrated Assessment Process to address the Sustainability of Small Harbors (Donald

**2012**

Integrated Assessment of Torch Lake Area of Concern (Noel Urban)

Integrated Assessment: Expansion of Michigan's Existing Commercial Aquaculture Activities into a Major Sustainable Seafood Production Industry (Christopher Weeks)

Quantifying the Impacts of Projected Climate Changes on the Grand Traverse Bay Region: An Adaptive

**2011**

Lake Huron IA: Assessing, Forecasting, and Planning for Coastal Communities (Christine Vogt)

**2010**

An Integrated Assessment Approach for Siting Wind Turbines in Coastal Counties in Michigan (Soji

Locating Wind Energy Facilities in Michigan's Coastal Counties: An Integrated Assessment for Muskegon &

Omnibus FY10-14 - Coastal Community Development (William Taylor)

Using an Integrated Assessment Approach to Restore a Natural Flow Regime in the Clinton River

<b>F. NSI, Pass-through, and enhancement funds</b>
<b>2014</b>
Sea Grant/GLERL Great Lakes Sea Grant Network Agent (William Taylor) (OAR)
Sea Grant/GLERL Great Lakes Sea Grant Network Agent (William Taylor) (SG-NSI)
Omnibus FY14-18 - Climate Adaption (Jim Diana) (SG-Climate)
2014 Knauss Fellow (Chiara Zuccarino-Crowe) (James Diana) (NOS)
2014 Knauss Fellow (Clarence Fullard) (James Diana) (NMFS)
Improving Awareness of Coastal Storm Hazards, Stormwater Runoff, and Risk Reduction Strategies (Heather Triezenberg) (NOS-CSC)
<b>2013</b>
David Gershman_MI_Knauss Fellowship 2013 (Jim Diana) (DEPT. OF STATE)
Sea Grant/GLERL Great Lakes Sea Grant Network Agent (Rochelle Sturtevant) (OAR-GLERL)
Integrated Assessment: Expansion of Michigan's Existing Commercial Aquaculture Activities into a Major Sustainable Seafood Production Industry (Christopher Weeks) (SG-AQTECH)
Omnibus FY10-14 - Extension (CHARLES PISTIS) (SG-Social Science )
<b>2012</b>
Eric MacMillan_MI_Knauss Fellowship 2012 (Jennifer Read Donahue) (NMFS)
Kyle Molton MI Knauss Fellowship 2012 (Jennifer Read Donahue) (SG-FEL-KNAUSS)
Outreach Strategies for Enhancing Grand Traverse Bay Watershed Climate Integrated Assessment (Jennifer Read Donahue) (SG-Climate)
Sea Grant/GLERL Great Lakes Sea Grant Network Agent (Rochelle Sturtevant) (SG-NSI)
Ship Time 2012 - Great Lakes Education (Minibus Initiatives) (Charles Pistis) (SG-NSI)
Ship Time 2012 - Michigan Sea Grant (Charles Pistis) (OAR-SHIPTIME)
Ship Time 2012 - Michigan Sea Grant (Charles Pistis) (SG-PD)
Omnibus FY10-14 - Coastal Community Development (William Taylor) (SG-Social Science )
Omnibus FY10-14 - Program Development (James Diana) (SG-Social Science )
<b>2011</b>
Colin Hume - Michigan Sea Grant Knauss Fellowship 2011 (Jennifer Read) (DEPT. OF INTERIOR)
Cultivate the knowledge and skills needed to address climate change and variability withing MSG, GLISA, and other extension networks. (Jennifer Read) (EPA)
Michigan Sea Grant Ship Time: Baseline Mapping of inner/Outer Grant Traverse Bay, Lake MI (CHARLES PISTIS) (OAR-SHIPTIME)
Michigan Sea Grant Ship Time: MI-1 Great Lakes Education (CHARLES PISTIS) (OAR-SHIPTIME)
Quantifying the Value of the Great Lakes for Michigan's Tourism and Recreation Industries (Jennifer Donahue) (NOS)
Sea Grant/GLERL Great Lakes Sea Grant Network Agent (Rochelle Sturtevant) (SG-Regional)
<b>2010</b>
Coastal Community Management of Stormwater: Implications of Climate Change (CHARLES PISTIS) (SG-COSEE - NOAA (James Diana) (SG-NSI)
Michigan Sea Grant Program - Dean John A. Knauss Fellowship 2010 - J. Nohner (JENNIFER READ) (SG-FEL-KNAUSS)
Michigan Sea Grant Program - Dean John A. Knauss Fellowship 2010 - M. Robinson (JENNIFER READ) (SG-FEL-KNAUSS)
MSG GLERL Extension 07-09 (R. STURTEVANT) (OAR)
MSG GLERL Extension 07-09 (R. STURTEVANT) (OAR-GLERL)
MSG GLERL Extension 07-09 (R. STURTEVANT) (SG-NSI)
Ship Time - Michigan Sea Grant - 2 Stewart MSU (CHARLES PISTIS) (OAR-SHIPTIME)
Ship Time - Michigan Sea Grant - Northwestern1 (CHARLES PISTIS) (OAR-SHIPTIME)

II. **Stakeholder Engagement** (relevance, advisory services, and education and training).

A. **Total Number of SG-Sponsored Meetings, Workshops, Conferences, Presentations and Attendees (2010-2013)**

Events	Attendees
863	72,629

B. **Total Number of Volunteer Hours (2010-2013)**

127,840
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C. **Students Supported (2010-2013)**

	Students		Degrees Awarded
	New	Continuing	
Undergraduate	19	2	0
MS/MA	33	6	1
PhD	5	0	1
Professional Degree	2	5	0

D. **K-12 Students Reached (2010-2013)**

75,159
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## A. Program Partners by Scale

### FEDERAL or NATIONAL

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Carnegie Institution for Science  
Center of Excellence for Great Lakes and Human Health (US DOC, NOAA, OAR, GLERL, CEGLHH)  
Coastal Storms Program (US DOC, NOAA, NOS, SCS, CSP)  
Detroit River International Wildlife Refuge  
Detroit River International Wildlife Refuge (US DOI, FWS, NWRS)  
DTE Energy  
Gauthier-Spaulding Fisheries  
Great Lakes Environmental Research Laboratory (US DOC, NOAA, OAR, GLERL)  
Great Lakes National Program Office (US EPA)  
Great Lakes Science Center (US DOI, USGS)  
Keweenaw Bay Indian Community  
National Association of Marina Industries  
National Geographic Society  
National Oceanic and Atmospheric Administration (US DOC, NOAA)  
National Park Service Sleeping Bear Dunes  
National Science Foundation (NSF)  
National Sea Grant Office (US DOC, NOAA, OAR, NSGO)  
National Weather Service (US DOC, NOAA, NWS)  
NOAA Climate Services (US DOC, NOAA)  
NOAA CoastWatch Great Lakes Regional Node  
North Central Regional Aquaculture Center (USDA)  
Office of National Marine Sanctuaries (US DOC, NOAA, NOS, ONMS)  
Old Woman Creek National Estuarine Research Reserve (US DOC, NOAA, NOS, NERRS)  
SmithGroupJJR  
Sturgeon for Tomorrow  
Thunder Bay National Marine Sanctuary and Underwater Preserve (US DOC, NOAA, NOS, ONMS)  
Tip of the Mitt Watershed Council  
US Army Corps of Engineers (DOD, Army, USACE)  
US Coast Guard (US DHS, USCG)  
US Environmental Protection Agency (US EPA)  
US Environmental Protection Agency (US EPA), Great Lakes National Program Office  
US Fish and Wildlife Service (US DOI, FWS)  
US Forest Service (USDA, USFS)  
US Geological Survey (US DOI, USGS)  
Office of Management and Budget (US DOC, NOAA, NMFS)

### INTERNATIONAL

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Audubon Society  
Ducks Unlimited  
Environment Canada  
Fisheries and Oceans Canada  
Great Lakes Beach Association  
Memorial University of Newfoundland  
Ontario Ministry of Natural Resources  
Ontario Ministry of the Environment  
The Nature Conservancy of Canada  
The Nature Conservancy of the Great Lakes (TNC)  
Trout Unlimited

University of Windsor

**LOCAL**

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Alger County, MI  
Alpena Community College  
Alpena Shipwreck Tours  
Alpena-Montmorency-Alcona ESD  
Annis Water Resources Institute (GVSU)  
Bay County, MI  
Bay Port Fish Company  
Besser Museum for Northeast Michigan  
Blue Water Sportfishing Association  
Brownstown Township, MI  
Calypso Charters  
Centers for Ocean Sciences Education Excellence, Great Lakes (COSEE)  
Charity Island Dinner Cruise  
City of Auburn Hills, MI  
City of Detroit, MI  
City of East Tawas  
City of Gibraltar, MI  
City of Marquette, MI  
City of Rochester Hills, MI  
City of Rockwood, MI  
Clinton River Watershed Council  
Community Foundation for Northeast Michigan  
Detroit Edison  
Downriver Linked Greenways Initiative  
Environmental Consulting & Technology, Inc.  
Fishtown Preservation Society  
Flat Rock, MI  
Friends of Bay City State Recreation Area  
Friends of the Detroit River  
Great Lakes Beach and Pier Safety Task Force  
Holland Township  
Hubbell, Roth & Clark, Inc.  
Huron County, MI  
Huron Pines  
Huron Township, MI  
Huron-Clinton Metroparks Authority  
Lake Huron Sportfishing, Inc.  
Ludington Area Charter Association  
Mackinac County Water Safety Review Team  
Macomb County Planning and Economic Development  
Macomb County Public Works Office  
Michigan Maritime Museum  
Muskegon Area Chamber of Commerce  
Northeast Michigan Great Lakes Stewardship Initiative  
Oakland County Water Resources Commission  
Oakland County, MI  
Oceana Farm Bureau

Originz, LLC  
Ottawa County Department of Health  
Riverside Kayak Connection  
Serafin Fisheries  
Southeast Michigan Council of Governments  
Spring Lake Township  
Sunrise Side Tours  
Suttons Bay Township  
Sylvan Lake Association  
Torch Lake Public Advisory Council  
U.S. 23 Heritage Route Committee  
Veritas Economic Consulting, LLC  
Village of Spring Lake, MI  
Village of Suttons Bay  
Waterford Township  
Watershed Center Grand Traverse Bay  
West Michigan Environmental Action Council  
White River Township  
David L. Knight

**REGIONAL**

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Center for Great Lakes Literacy  
East Michigan Council of Governments  
Eastern Michigan Council of Governments  
Essex Region Conservation Authority  
Great Lakes Commission  
Great Lakes Fishery Commission (GLFC)  
Great Lakes Fishery Trust  
Great Lakes Indian Fish and Wildlife Commission (GLIFWC)  
Great Lakes Integrated Sciences and Assessments Center  
Great Lakes Observing System (GLOS)  
Great Lakes Sea Grant Network  
Great Lakes Small Harbor Coalition  
Great Lakes Small Harbors Coalition  
Great Lakes Surf Rescue Project  
Herrick Foundation, Michigan  
Inland Seas Education Association  
International Wildlife Refuge Alliance  
Lake Erie Metropark  
Lake Huron Citizen Fishery Advisory Committee  
Lake St. Clair Metropark  
Midwest Marina Association  
Northeast Michigan Council of Governments  
Partnership for the Saginaw Watershed  
Watershed Council

**STATE**

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CMU Institute for Great Lakes Research  
Consumers Energy  
Eastern Michigan University (EMU)  
Exhibit Museum of Natural History (U-M)

Grand Valley State University (GVSU)  
Harrietta Hills Trout Farm & Michigan Aquaculture Association  
Heidelberg College  
Illinois-Indiana Sea Grant  
Illinois Department of Natural Resources (IL DNR)  
Indiana Coastal Management Program  
Indiana Department of Natural Resources (ID DNR)  
Lake Erie Marine Trades Association  
Lawrence Technological University  
League of Conservation Voters (LCV)  
Legends of the Lakes Cooperative  
Mackinaw Power  
Michigan 4-H Youth Development (MSUE)  
Michigan Alternative and Renewable Energy Center  
Michigan Association of Planning  
Michigan Boating Industries Association  
Michigan Boating Industry Association  
Michigan Charter Boat Association  
Michigan Coastal Management Program (MDEQ)  
Michigan Department of Agriculture (MDA)  
Michigan Department of Agriculture and Rural Development  
Michigan Department of Community Health  
Michigan Department of Environmental Quality (MI DEQ), Coastal Management Program (CMP)  
Michigan Department of Environmental Quality  
Michigan Department of Environmental Quality (MI DEQ)  
Michigan Department of Environmental Quality (MI DEQ), Great Lakes Areas of Concern Program  
Michigan Department of Environmental Quality (MI DEQ), Office of the Great Lakes  
Michigan Department of Environmental Quality (MI DEQ), Remediation and Redevelopment Division (RRD)  
Michigan Department of Environmental Quality (MI DEQ), Water Resources Division (WRD)  
Michigan Department of Natural Resources  
Michigan Department of Natural Resources (MI DNR)  
Michigan Department of Natural Resources (MI DNR), Fisheries Division  
Michigan Department of Natural Resources (MI DNR), Parks and Recreation Division  
Michigan Department of Transportation  
Michigan Department of Transportation (MDOT)  
Michigan Economic Development Corporation  
Michigan Environmental Health Association  
Michigan FFA Association  
Michigan Fish Producers Association  
Michigan Historical Center  
Michigan House of Representative  
Michigan Lake and Stream Associations  
Michigan Natural Features Inventory  
Michigan Natural Resources Trust Fund  
Michigan Natural Shorelines Partnership  
Michigan Restaurant Association  
Michigan Science Teachers Association  
Michigan Sea Grant  
Michigan State Board of Education

Michigan State Housing and Development Authority  
Michigan State University (MSU)  
Michigan State University County Extension Offices (MSU)  
Michigan State University Land Policy Institute  
Michigan State University, Center for Water Sciences  
Michigan State University, Greening Michigan Institute  
Michigan Statewide Public Advisory Council  
Michigan Steelhead and Salmon Fishermen's Association  
Michigan Technological University (MTU)  
Michigan Township Services  
Minnesota Sea Grant  
MSU College of Agriculture and Natural Resources  
MSU Department of Fisheries and Wildlife  
MSU Museum  
MSU Remote Sensing and GIS Research and Outreach Services  
New York Sea Grant  
Northern Michigan University  
Northwestern Michigan College Great Lakes Water Studies Institute  
Oakland University  
Ohio Department of Natural Resources (OH DNR)  
Ohio Sea Grant  
Ohio State University (OSU)  
Saginaw Valley State University  
State Quality of Life Departments - MDARD, DEQ, DNR : various staff  
UM Biological Station  
University of Illinois  
University of Michigan (UM)  
University of Michigan (UM), Atmospheric Ocean and Space Sciences  
University of Michigan (UM), Center for Engineering Diversity and Outreach  
University of Michigan (UM), Cooperative Institute for Limnology and Ecosystems Research (CILER)  
University of Michigan (UM), Graham Institute  
University of Michigan (UM), School of Natural Resources and Environment (SNRE)  
University of Michigan (UM), Water Center  
University of Toledo  
University of Wisconsin, Cooperative Extension (UW)  
University of Wisconsin, Madison (UW)  
Wayne State University  
Wisconsin Clean Marina Association  
Wisconsin Department of Administration, Coastal Management Program  
Wisconsin Department of Natural Resources (WI DNR)  
Wisconsin Marina Association  
Wisconsin Sea Grant  
Michigan State Housing Development Authority (MSHDA)

**Tribal**

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1836 Treaty Waters Technical Fisheries Committee  
Walpole Island First Nations

**Unknown**

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Michigan Department of Natural Resources, Lake Huron Citizen's Fishery Advisory Committee

**Unknown2**

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JJR Engineering  
Limno-Tech, Inc.  
Mackinac Fish Company

B. Source and Amount of Leveraged Funds (2010-2013)

<b>Amounts</b>	<b>Year</b>			
<b>Source</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>
<b>Managed</b>	<b>\$3,403,006</b>	<b>\$975,570</b>	<b>\$2,129,754</b>	<b>\$2,094,826</b>
Consortium for Ocean Leadership			\$13,000	\$5,000
Cooperative Institute of Limnology and Ecosystems Research			\$73,815	\$2,731
DTE Energy				\$500
Ducks Unlimited		\$36,429	\$5,000	\$9,807
Friends of the Detroit River	\$7,651			
Grand Valley State University (GVSU)		\$151,023		
Great Lakes Fishery Commission (GLFC)			\$500	
Great Lakes Fishery Trust	\$115,000			\$145,000
Great Lakes Observing System (GLOS)	\$75,500	\$105,500		\$31,891
Illinois-Indiana Sea Grant	\$55,000	\$100,000		
Land Information Access Association				\$3,200
Michigan Department of Environmental Quality (MI DEQ), Coastal Management Program (CM)			\$65,000	\$16,258
Michigan Department of Environmental Quality (MI DEQ)		\$2,000	\$75,000	\$18,742
Michigan Department of Natural Resources (MI DNR)	\$80,000	\$80,000		
Michigan Sea Grant			\$99,285	
Michigan State University County Extension Offices (MSU)	\$183,238	\$4,900		
Minnesota Sea Grant		\$25,200		
National Oceanic and Atmospheric Administration (US DOC, NOAA)	\$1,934,471	\$139,892	\$141,086	\$129,999
National Science Foundation (NSF)	\$280,959		\$72,699	
National Sea Grant Office (US DOC, NOAA, OAR, NSGO)				\$131,354
National Wildlife Federation (NWF)			\$799,226	
Ohio State University (OSU)			\$13,696	
University of Illinois			\$21,821	
University of Michigan (UM)			\$45,174	
US Environmental Protection Agency (US EPA)	\$671,187	\$280,626	\$696,452	
US Geological Survey (US DOI, USGS)		\$50,000	\$5,000	\$1,596,244
Unreported Source			\$3,000	\$4,100
<b>Influenced</b>	<b>\$4,284,234</b>	<b>\$3,947,410</b>	<b>\$1,121,000</b>	<b>\$512,620</b>
Downriver Linked Greenways Initiative		\$1,250		
Eastern Michigan University (EMU)	\$1,000,000			
Friends of the Detroit River	\$1,697,634			
Great Lakes Fishery Trust	\$500,000	\$166,200		
Great Lakes Indian Fish and Wildlife Commission (GLIFWC)				\$1,500
Michigan Department of Environmental Quality (MI DEQ)	\$55,500			
Michigan Energy Office		\$37,230		
Michigan Natural Resources Trust Fund	\$465,000	\$750,000		
Michigan State University County Extension Offices (MSU)	\$6,000			
National Oceanic and Atmospheric Administration (US DOC, NOAA)				\$495,620
National Science Foundation (NSF)	\$5,000			
North Central Regional Aquaculture Center (USDA)		\$2,350		\$7,500
Northeast Michigan Council of Governments				\$5,000
Toyota H2O Water Quality Initiative	\$50,000	\$10,000		
US Department of Energy (US DOE)		\$2,700,000		
US Environmental Protection Agency (US EPA)		\$280,380	\$884,000	
Western Michigan University (WMU)	\$500,000			
Unreported Source	\$5,100		\$237,000	\$3,000