

OH Sea Grant Program

Site Review PIER Information

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

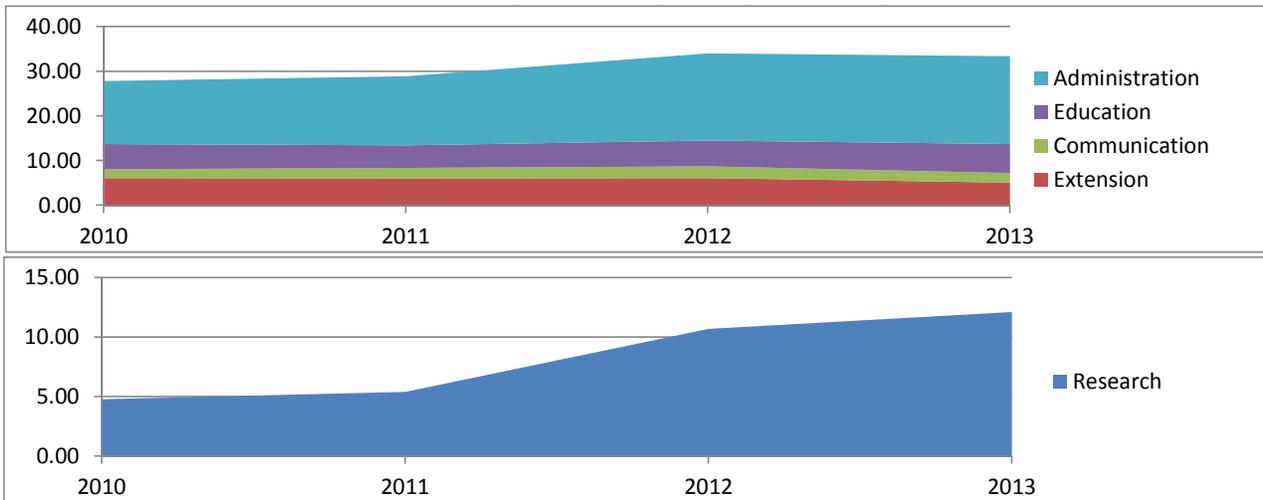
I. Program Management and Organization (organization, program team approach, support).

A. Sea Grant Staffing (2010-2013)

	Range of Annual Number of Individuals	Average Annual Full-Time Equivalents*
Administration	22-32	17.2
Extension	8-16	5.9
Communication	3-4	2.3
Education	33-51	5.7
Research	27-61	8.3

*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)

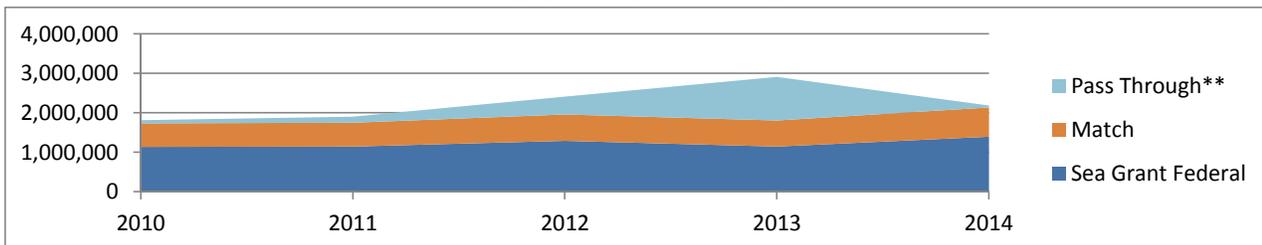


B. Total Funding by Source (2010-2014)

	Sea Grant Federal	Match	Pass Through**	Total Funding
2010	1,136,000	599,387	77,500	1,812,887
2011	1,145,644	604,175	156,355	1,906,174
2012	1,288,973	671,498	452,194	2,412,665
2013	1,147,200	661,140	1,102,000	2,910,340
2014	1,398,504	738,652	49,995	2,187,151

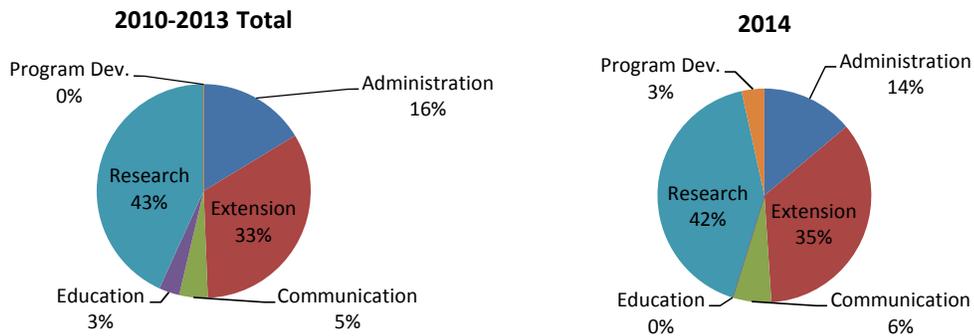
** Pass Through funding refers to federal funds not appropriated to Sea Grant, but administered through the National Sea Grant Office

Funding by Year (2010-2013)

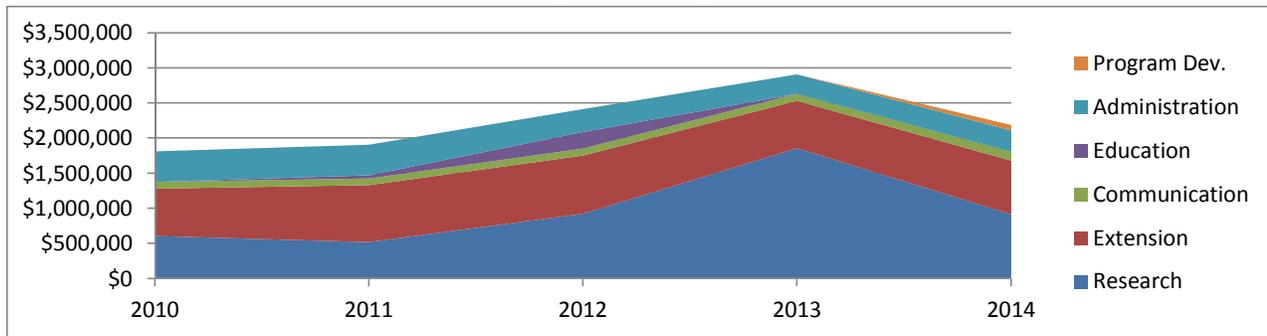


C. Distribution of Funding by Functional Area (Federal + Match + Pass Through)

	2010	2011	2012	2013	2014
Administration	436,339	433,851	325,101	278,200	303,673
Extension	675,000	807,647	831,413	678,011	767,645
Communication	97,500	97,500	97,500	97,504	127,509
Education	0	46,000	235,614	0	0
Research	604,048	521,176	923,037	1,856,625	913,323
Program Dev.	0	0	0	0	75,001



Trend (2010-2014)



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

	2011	2013
Pre-Proposals Submitted	18	28
Full Proposals Submitted	14	17
Proposals Funded	11	8
Institutions with Proposals Funded	3	5
Proposals Funded from Home Institution	9	4

E. Core-Funded Research Projects

2014

Beneficial reuse of dredged material in manufactured soil blending: Economic/logistical and performance
Linking Agricultural Production and Great Lakes Ecosystem Services: Modeling and Valuing the Impacts of
Mapping drain tile and modeling agricultural contribution to nonpoint source pollution in the western Lake
Should nitrogen be managed Lake Erie? The potential role of nitrogen fixation by cyanobacteria. (Darren L.
Source tracking and toxigenicity of Planktothrix in Sandusky Bay (George S. Bullerjahn)
The role of nitrogen concentration in regulating cyanobacterial bloom toxicity in a eutrophic lake (Justin
Understanding dam removal impacts on a formerly prolific Great Lake's walleye population (Chris
Delivery of sediment amendments using far-field ultrasound (Linda Weavers)
Developing superior neomale broostocks and genetically fast-growing monosex female populations in
yellow perch and evaluating their growth and production potential at different culture regions (Han-Ping

2013

Impacts of Climate Change on Public Health in the Great Lakes due to Harmful Algae Blooms -- Ohio Sea
Should Nitrogen be Managed in Lake Erie? The Potential Role of Nitrogen Fixation by Cyanobacteria
The Sensitivity of Visitor Stays to Taxes and Crime (Robert Greenbaum)
Development of the Ohio Sea Grant College Program (JEFFREY M. REUTTER)

2012

Beneficial reuse of dredged material in manufactured soil blending: economic/logistical and performance
Genetic improvement of yellow perch: creating the forth generation of fast-growing lines and performing on-
farm and on-station performance testing (Han-Ping Wang)

2011

Bench-scale evaluation of in-situ ultrasonic remediation of contaminated sediments (LINDA K. WEAVERS)
Development and implementation of a new molecular test for active VHS infection in fish (CAROL A.
Environmental tolerance of type A influenza virus isolated from wild waterfowl in Ohio (Richard Slemons)
The role of sediment in controlling the fate and toxicity of microcystin (HAROLD W. WALKER)

2010

Development and validation of a high-resolution nearshore model for Lake Erie (Ethan Kubatko)
Fate of Inorganic Nanoparticles in Surface Water Environments (Jon Lenhart)
Leveraging natural amenities for sustainable development in the Great Lakes region (Mark Partridge)
Otolith Microchemistry as a Natural Tag for Mixed Stock Analysis of Hatchery Reared Steelhead (JOHN
Socio-economic impacts of bird watching along Great Lakes (Philip Xie)
Temporal and spatial analyses of walleye and yellow perch genetic stock structure: a high-resolution data
base for fishery management (part II) (CAROL A. STEPIEN)
Winter assessment of microbial biomass and metabolism in Lake Erie (R. MICHAEL L. MCKAY)

F. NSI, Pass-through, and enhancement funds**2014**

Impacts of Climate Change on Public Health in the Great Lakes due to Harmful Algae Blooms (Jay F. Martin) (SG-Climate)

Ohio Sea Grant College Program Development (Jeffrey M. Reutter) (SG-PD)

Ohio Sea Grant College Program Extension (Frank Lichtkoppler) (SG-Climate)

Community-Focused Coastal Storms Outreach (Frank Lichtkoppler) (NOS-CSC)

Delivery of sediment amendments using far-field ultrasound (Linda Weavers) (SG-Social Science)

Great Lakes Marine Debris Display (Kristin Stanford) (NOS)

2013

Great Lakes Charter Industry Survey (Supplement) (Joe Lucente) (ARMY)

Harmful Algal Bloom Bulletin Development (Partnership with Dr Stumpf with NOAA) (Rick Stumpf) (NOS)

Ohio Sea Grant Ship Time (JEFFREY REUTTER) (SG-Admin)

Development and implementation of a new molecular test for active VHS infection in fish (CAROL A. STEPIEN) (SG-AQTECH)

Genetic improvement of yellow perch: creating the forth generation of fast-growing lines and performing on-farm and on-station performance testing (Han-Ping Wang) (SG-AQTECH)

2012

Asian Carp Regional Outreach (Tory Gabriel) (EPA)

Climate Initiative -- Ohio Sea Grant Minibus FY2012/2013 (Jill Jentes Banicki) (SG-Climate)

Erin Sams-Ohio Sea Grant-Knauss Fellowship 2012 (Christopher Winslow) (NOAA-Education)

Great Lakes Charter Industry Survey (Joe Lucente) (ARMY)

Great Lakes Coastal Storms Small Grant Program (Christopher Winslow) (NOS)

Ohio Sea Grant Ship Time (JEFFREY REUTTER) (SG-NSI)

Impacts of Climate Change on Public Health in the Great Lakes due to Harmful Algae Blooms -- Ohio Sea Grant Minibus FY2012/2013 (Jay F. Martin) (SG-Social Science)

2011

Great Lakes Climate Extension Capacity Building (Jill Jentes Banicki) (EPA)

Great Lakes Climate Extension Capacity Building (Jill Jentes Banicki) (SG-Climate)

O.J. Sepulveda Villet OH Knauss Fellowship 2011 (Carol A. Stepien) (NMFS)

2010

Ohio Sea Grant Ship Time (JEFFREY REUTTER) (OAR-SHIPTIME)

Coastal Communities Climate Change Adaptation Initiative (Unreported PI) (SG-Climate)

OHIO SEA GRANT COLLEGE PROGRAM - FISHERIES EXTENSION - SNYDER (DR. JEFFREY REUTTER) (SG-FISHERY-EXT)

Support for NOAA's Marine Debris Great Lakes Coordinator (Unreported PI) (NOS)

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
3,344	210,901

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

8,319

C. **Students Supported (2010-2013)**

	Students		Degrees Awarded
	New	Continuing	
Undergraduate	272	21	9
MS/MA	28	13	8
PhD	17	23	7
Professional Degree	4	0	0

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

18,384

III. Collaborative Network Activities (relationships and coordination).

A. Program Partners by Scale

FEDERAL or NATIONAL

Blue Water Condominiums
Brenner Marine, Toledo
Coastal Services Center (US DOC, NOAA, NOS, CSC)
Columbus Foundation
Great Lakes Environmental Research Laboratory (US DOC, NOAA, OAR, GLERL)
Great Lakes National Program Office (US EPA)
Lake Erie Coastal Ohio, Inc.
National Association of Marine Laboratories
National Park Service (US DOI, NPS)
National Science Foundation (NSF)
National Water Research Institute, Canada
Northeast-Midwest Institute
Ocean.US
Old Woman Creek (US DOC, NOAA, NOS, NERRS)
Perry's International Peace Memorial (US DOI, NPS)
Sima Marine
The Dock of the Bay Marina
US Army Corps of Engineers (DOD, Army, USACE)
US Coast Guard (US DHS, USCG)
US Environmental Protection Agency (US EPA)
US Fish and Wildlife Service (US DOI, FWS)
US Geological Survey (US DOI, USGS)
Vermilion Power Boats

INTERNATIONAL

Council of Great Lakes Research Managers
Environment Canada
Fisheries and Oceans Canada (DFO)
International Joint Commission
Ontario Ministry of Natural Resources
Ontario Ministry of the Environment
Runzheimer International
University of Toronto
University of Windsor

LOCAL

Ashtabula Yacht Club
Bass Haven
Battery Park Marina
Bay View Yacht Club
Beaver Park Marina
Beaver Park North
Bulan's Boatyard
Castaway Bay
Catawba Island Club
Cedar Point Amusement Park
Cedar Point Marina

Channel Park Marina
City of Ashtabula, OH
City of Cleveland, OH
City of Huron, OH Boat Basin
City of Lorain, OH
City of Mentor, OH
City of Port Clinton, OH
City of Sandusky, OH
City of Toledo, OH
Cleveland Museum of Natural History
Cuyahoga County Department of Health
Edgewater Yacht Club, Cleveland
Emerald Necklace Marina
Erie/Sandusky County Community Foundation
Forest City Yacht Club, Cleveland
Geneva State Park Marina
Harbor North, Huron
Henry Ford Health System
Holiday Harbor Marina, Huron
Hoty Marina - Son Rise, Sandusky
Huron Lagoons Marina, Huron
Lake County Yacht Club, Eastlake
Lake Erie Charter Boat Association
Lorain Sailing & Yacht Club
Marina Del Isle, Marblehead
Mario's Landing
Maumee Bay Resort Marina
Middle Bass Island Yacht Club
Put-in-Bay Jet Express Ferry
Romps Water Port
Sandusky Yacht Club, Sandusky
Spitzer Harbor Walk and Rack Storage Marina
Spitzer Lakeside Marine
Westerville City Schools

REGIONAL

Council of Great Lakes Governors
Great Lakes Commission
Great Lakes Fishery Commission (GLFC)
Great Lakes Observing System (GLOS)
Great Lakes Protection Fund
Great Lakes Regional Water Program
Great Lakes Sea Grant Network
Great Lakes Sport Fishing Council
Lake Erie Millennium Network
Northeast Association of Marine and Great Lakes Laboratories

STATE

Association of Natural Resources Extension Professionals, Ohio Chapter
Baldwin-Wallace College
Bowling Green State University (BGSU)

California Sea Grant Extension Program
Case Western Reserve University (CASE)
Cleveland State University (CSUOhio)
College of Charleston
Cornell University
Heidelberg College
Illinois-Indiana Sea Grant
John Carroll University (JCU)
Kent State University
Kutztown University
Lake Erie Marine Trades Association
Lake Erie Protection Fund, Ohio Lake Erie Commission
Miami (OH) University (MUOhio)
Michigan Sea Grant
Michigan State University (MSU)
Minnesota Sea Grant
Mount Union College
New York Sea Grant
Northern Illinois University (NIU)
Office of Development, Ohio State University (OSU)
Ohio Board of Regents
Ohio Certified Volunteer Naturalist Program
Ohio Chapter of the American Fisheries Society (AFS)
Ohio Coastal Management Program
Ohio Department of Development (OH DEV)
Ohio Department of Health (OH DOH)
Ohio Division of Geological Survey (OH DNR, OH DGS)
Ohio Division of Soil and Water Conservation (OH DNR)
Ohio Division of Travel and Tourism
Ohio Division of Watercraft (OH DNR)
Ohio Division of Wildlife (OH DNR)
Ohio Environmental Protection Agency (OH EPA)
Ohio Lake Erie Commission
Ohio Lake Erie Office
Ohio Legislature
Ohio Northern University
Ohio Sea Grant
Ohio State University (OSU)
Ohio University
Otterbein College
Penn State University (PSU)
Pennsylvania Sea Grant
Purdue University
Purdue University Calumet
State University of New York, Buffalo (SUNY)
University of Akron (UAKron)
University of California, Berkeley (UCB)
University of Cincinnati (UC)
University Of Illinois, Urbana-Champaign (UI)

University of Miami (UM)

University of Michigan (UM)

University Of Minnesota, Duluth (UMD)

University of Southern California (USC)

University of Toledo

University of Wisconsin, Madison (UW)

University of Wisconsin, Water Resources Institute (UW)

Wisconsin Sea Grant

Wittenberg University

Wright State University

Unknown

County Commissioners from all eight coastal counties

Lake Erie Institute Of Marine Science

Ohio Department of Natural Resources Division of Wildlife () ()

Unknown2

Lake Erie Nature and Science Center

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

Amounts	Year			
Source	2010	2011	2012	2013
Managed	\$2,395,216	\$2,059,340	\$2,331,504	\$2,408,752
Great Lakes Observing System (GLOS)	\$180,000			
Lake Erie Protection Fund, Ohio Lake Erie Commission	\$9,900	\$126,375	\$14,571	
National Park Service (US DOI, NPS)	\$14,000			
National Science Foundation (NSF)		\$30,000		\$60,441
Office of Development, Ohio State University (OSU)	\$200,307	\$151,067	\$215,905	\$203,174
OH Travel Association			\$18,341	
Ohio Board of Regents	\$300,000	\$291,250	\$285,000	\$285,000
Ohio Coastal Management Program	\$72,605	\$24,321		\$42,989
Ohio Department of Natural Resources (OH DNR)		\$43,590	\$52,970	
Ohio Division of Travel and Tourism		\$25,000		
Ohio Division of Wildlife (OH DNR)	\$21,061			
Ohio Environmental Protection Agency (OH EPA)		\$12,455	\$62,446	\$81,355
Ohio State University (OSU)	\$1,314,161	\$1,234,975	\$1,607,825	\$1,506,506
Penn State University (PSU)	\$35,672	\$31,076		
Runzheimer International	\$5,000			
The Nature Conservancy (TNC)			\$16,596	\$46,921
University of California, Berkeley (UCB)	\$15,211			
University of Illinois			\$14,432	\$14,314
University of Michigan (UM)	\$36,271	\$42,985		\$10,609
University Of Minnesota (UMN)		\$33,263	\$33,263	\$17,010
University Of Minnesota, Duluth (UMD)	\$89,912			
University of Toledo				\$3,000
University of Wisconsin, Madison (UW)		\$12,983	\$10,155	
US Fish and Wildlife Service (US DOI, FWS)				\$96,148
Unreported Source	\$101,116			\$25,000
US Natural Resources Conservation Service (USDA, NRCS)				\$16,285
Influenced	\$499,512	\$4,542,447	\$12,138,900	\$59,626,413
Great Lakes National Program Office (US EPA)			\$12,138,900	
National Science Foundation (NSF)	\$250,000			
Ohio Legislature				\$3,000,000
US Environmental Protection Agency (US EPA)	\$249,512			
Unreported Source				\$56,626,413
Ohio Lake Erie Commission		\$4,542,447		