

# PA Sea Grant Program

## Site Review PIER Information

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

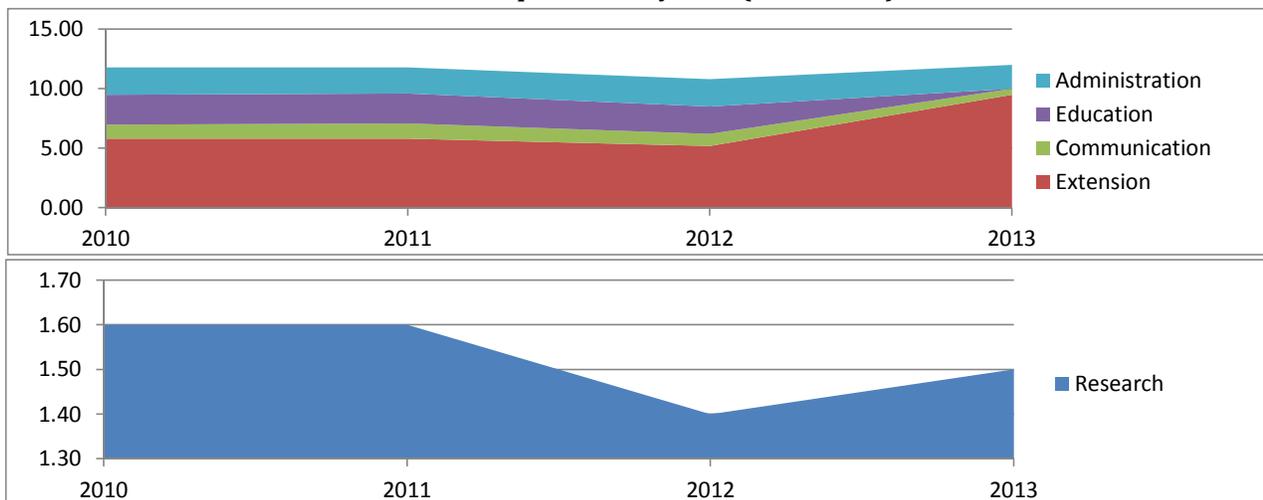
### I. Program Management and Organization (organization, program team approach, support).

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

	Range of Annual Number of Individuals	Average Annual Full-Time Equivalents*
<b>Administration</b>	6-10	2.2
<b>Extension</b>	9-13	6.6
<b>Communication</b>	1-2	1.0
<b>Education</b>	5-8	2.4
<b>Research</b>	2-4	1.5

\*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)**

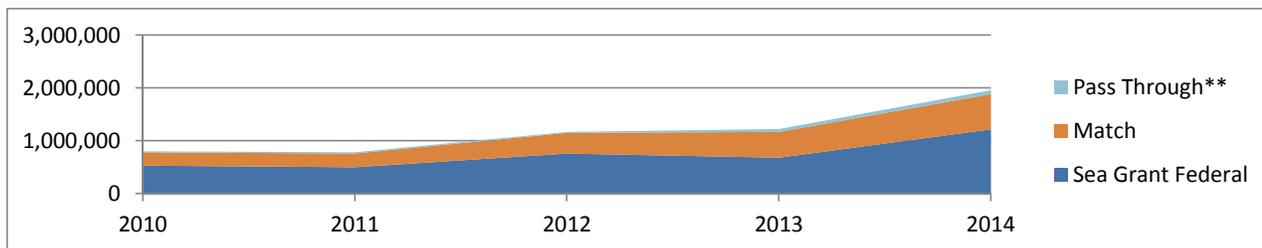


#### B. Total Funding by Source (2010-2014)

	Sea Grant Federal	Match	Pass Through**	Total Funding
<b>2010</b>	530,000	250,000	20,000	800,000
<b>2011</b>	500,000	260,000	20,000	780,000
<b>2012</b>	757,883	393,611	20,000	1,171,494
<b>2013</b>	678,920	490,832	52,500	1,222,252
<b>2014</b>	1,216,475	666,581	76,500	1,959,556

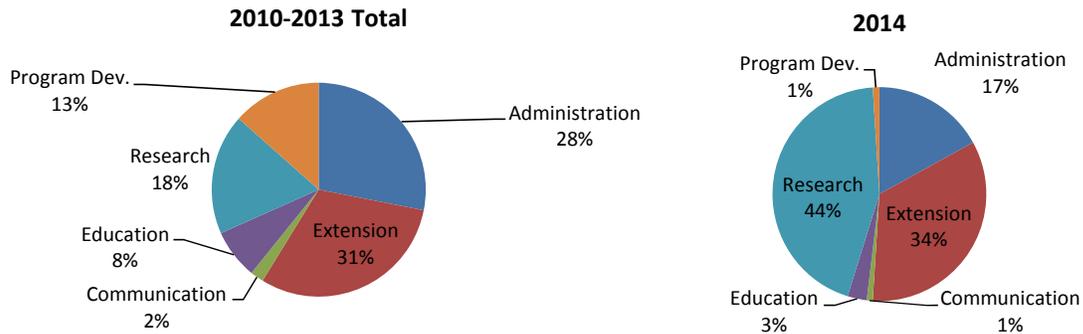
\*\* Pass Through funding refers to federal funds not appropriated to Sea Grant, but administered through the National Sea Grant Office

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

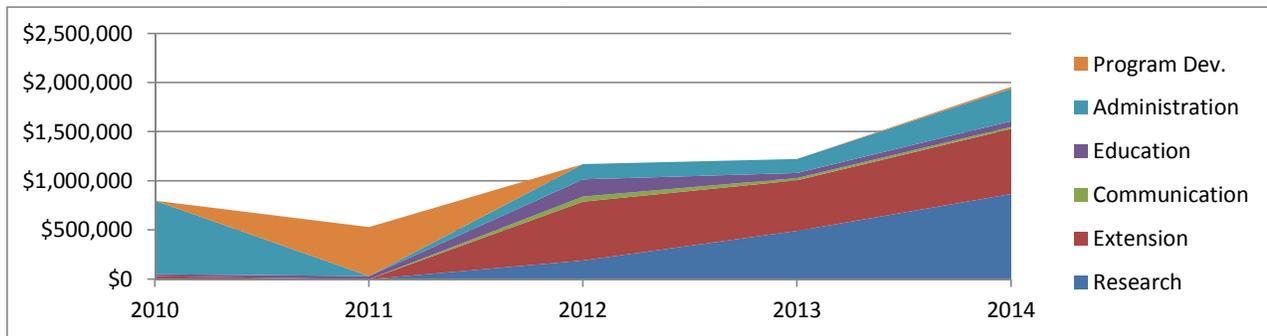


**C. Distribution of Funding by Functional Area (Federal + Match + Pass Through)**

	2010	2011	2012	2013	2014
Administration	750,000	0	155,000	141,250	332,837
Extension	30,000	0	599,000	514,500	666,367
Communication	0	0	51,000	23,750	18,182
Education	20,000	30,000	176,750	52,500	56,500
Research	0	0	189,744	490,252	865,670
Program Dev.	0	500,000	0	0	20,000



**Trend (2010-2014)**



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

	2012	2013
Pre-Proposals Submitted	20	15
Full Proposals Submitted	10	8
Proposals Funded	7	7
Institutions with Proposals Funded	6	4
Proposals Funded from Home Institution	3	3

**E. Core-Funded Research Projects****2014**

A Real-time PCR Method for the Early Detection of Aquatic Invasive Species in Pennsylvania Watersheds

Assessing the ecological integrity of Presque Isle Bay by comparing tumors rates and intersex within fish

Assessing the Effect of Lower Lake Erie Water Levels on Outdoor Recreationists and Stakeholders in

DNA Mutation Analysis in Brown Bullhead Fish from Presque Isle Bay (Steven Mauro)

Evaluations of Effectiveness of FreshFaceForward: Personal Care Products (PCPs) Social Change Campaign

PCR tracking of predation on non-native species in Lake Erie (Kelly Grant, Ph.D.)

Quantifying seasonal movement dynamics and thermal habitat use of smallmouth bass in the Susquehanna

Research - Pennsylvania Sea Grant 2014-2018 (Jeanette Schnars)

Support for the Natural History Museum at the Tom Ridge Environmental Center at Presque Isle (non-

2014-2016 Competitive Resilience Research (Robert W. Light)

Placeholder - Second Round RFP 2015-16 (Jeanette Schnars)

**2013**

Developing Quantitative Models for the Removal of Quaternary Ammonium Ions as Representative Cationic Emerging Contaminants by Cation Exchange Resins (Huichun (Judy) Zhang)

Effects of personal care, prescription, and other emerging contaminants on sentinel species in Lake Erie beach waters of Presque Isle State Park (Amy D. Parente)

Establishing a Link between Hydraulic Facturing Activities and Streamwater Impacts in North-Central

Evaluating Coastal Wetland Vulnerability to Sea Level Rise in Pennsylvania (Tracy Elsey-Quirk)

How temperature and phosphorus loading influence E.coli growth on Cladophora in Lake Erie beach

Identification of parasites and bacteria and their role in infections and mortalities of small mouth bass in the Susquehanna River Basin and neighboring drainages (Geoffrey Smith)

Innovative Tools for Groundwater Education in PA (Bryan Swistock)

Nutrient Thresholds for *Didymosphenia germinata* Blooms & Stalk Formation in the Delaware River (Erik

Occurrence Survey for Emerging Contaminants of Concern in Pennsylvania Tributaries of the Delaware

Probabilistic Characterization of Streamflows in Urbanizing Basins in Pennsylvania Under Climate Change

Support for the Natural History Museum at the Tom Ridge Environmental Center (Mark Lethaby)

**2012**

Pennsylvania Sea Grant Institutional Omnibus 2010-2014: Research (Sean Rafferty)

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

2014 Knauss Fellow (Shane Hanlon) (Robert W. Light) (DEPT. OF INTERIOR)

2014-2016 Competitive Resilience Research (Robert W. Light) (SG-Social Science )

Extension - PA Sea Grant (Eric Obert) (SG-Climate)

Improving Coastal Storm Communications: Reaching Over 4 Million Visitors on the PA Lake Erie Shore

**2013**

Leslie Irwin, Pennsylvania Sea Grant Knauss Fellowship 2013 (Unreported PI) (OAR)

**2012**

2012 Sea Grant Shiptime (David Boughton) (OAR-SHIPTIME)

Helping a Tidal Riverfront Community Build Capacity to Adapt to Climate Change (Chester, PA) (Ann

Pennsylvania Sea Grant Climate Adaptation (2012-14) (Robert Light, Ph.D.) (SG-Climate)

Pennsylvania Sea Grant Social Science (2012-14) (Robert Light, Ph.D.) (SG-Social Science )

**2011**

2011 Sea Grant Shiptime (David Boughton) (OAR-SHIPTIME)

**2010**

Pennsylvania Climate Initiative (Unreported PI) (SG-Climate)

Pennsylvania Sea Grant Ship Time (Unreported PI) (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
275	19,697

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

16,102
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C. **Students Supported (2010-2013)**

	Students		Degrees Awarded
	New	Continuing	
Undergraduate	32	1	1
MS/MA	10	3	2
PhD	6	4	0
Professional Degree	0	0	0

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

45,708
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### III. Collaborative Network Activities (relationships and coordination).

#### A. Program Partners by Scale

##### **FEDERAL or NATIONAL**

Coastal Services Center (US DOC, NOAA, NOS, CSC)  
Deloitte Financial Consultants  
Ernst Conservation Seed Co.  
Federal Highway Administration (US DOT, FHA)  
Great Lakes Environmental Research Laboratory (US DOC, NOAA, OAR, GLERL)  
Great Lakes National Program Office (US EPA)  
John Heinz National Wildlife Refuge (US DOI, FWS, NWRS)  
National Non-Point Education for Municipal Officials (NEMO) Network  
National Oceanic and Atmospheric Administration (US DOC, NOAA)  
National Public Radio (NPR)  
National Science Foundation (NSF)  
National Sea Grant Office (US DOC, NOAA, OAR, NSGO)  
National Weather Service (US DOC, NOAA, NWS)  
Natural Resources Conservation Service (USDA, NRCS)  
Office of Naval Research (US DOD, NAVY, ONR)  
Pew Charitable Trusts  
Purple Martin Conservation Association  
Save Our Native Species (SONS)  
Strong Cities, Strong Communities (SC2)  
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)  
Woolpert, Inc.  
Division of Congressional and Legislative Affairs (US DOI, FWS)

##### **INTERNATIONAL**

Ducks Unlimited  
DuPont Corporation  
ICF International

##### **LOCAL**

Albion Borough  
Chester Community Charter School  
Chester Upland School District  
City of Chester, PA  
City of Erie, PA  
City of Erie, PA School District  
Cleveland Museum of Natural History  
Corinthian Yacht Club  
Destination Erie  
Environment Erie  
Erie City School District  
Erie County Department of Health  
Erie County Sheriff's Department  
Erie County, PA Conservation District

Erie County, PA Department of Planning  
Erie Times News  
Fairview School District  
Fairview Township  
Girard Township  
Hamot UPMC Hospital  
Harborcreek Township  
Iroquois School District  
Lake Erie Arboretum at Frontier Park  
Lake Erie Regional Conservancy  
Lawrence Park Golf Club  
Lawrence Park Township  
Millcreek Township  
Neighborhood Art House  
Northeast School District  
Northwest Pennsylvania Regional Planning and Development Commission  
Pennsylvania Green Economy Task Force  
Perseus House Charter School of Excellence  
Philadelphia School District  
Philadelphia Water Department  
Presque Isle Bay Public Advisory Committee for the RAP  
Springfield Township  
Stroud Water Research Center  
Union City School District  
Wesleyville Borough

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**REGIONAL**

Brandywine Valley Association  
Delaware Valley, PA Regional Planning Department  
Erie Maritime Museum  
Erie-Western Port Authority  
Friends of Fish Foundation  
Great Lakes Sea Grant Network  
Mid-Atlantic Panel on Aquatic Invasive Species  
Northwest Tri-County Intermediate Unit #5 (IU5)  
Partnership for the Delaware Estuary  
Regional Science Consortium

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**STATE**

Connecticut Sea Grant  
Delaware County, PA Planning Department  
Delaware Sea Grant  
Engineered Plastics, Inc.  
Gannon University  
Illinois-Indiana Sea Grant  
Lake Erie College of Osteopathic Medicing (LECOM)  
Maryland Sea Grant  
Massachusetts Institute of Technology Sea Grant (MIT)  
Mercyhurst College  
New Jersey Sea Grant  
New York Sea Grant

North Carolina Sea Grant  
Ohio Sea Grant  
Penn State Behrend (PSU)  
Penn State Cooperative Extension (PSU)  
Penn State University (PSU)  
Pennsylvania Coastal Resources Management Program (CRM)  
Pennsylvania Department of Agriculture  
Pennsylvania Department of Conservation and Natural Resources (PA DCNR)  
Pennsylvania Department of Environmental Protection (PA DEP)  
Pennsylvania Department of Health (PA DOH)  
Pennsylvania Department of Transportation (PA DOT)  
Pennsylvania Fish and Boat Commission  
Pennsylvania Game Commission  
Pennsylvania Greenways  
Pennsylvania Invasive Species Council (PISC)  
Pennsylvania Spatial Data Access (PASDA)  
Rhode Island Sea Grant  
Shippensburg University  
South Carolina Sea Grant Consortium  
State Representative John Hornamen  
Texas A&M University (TAMU)  
Texas Sea Grant  
Virginia Sea Grant  
Waste Management  
West Chester University of Pennsylvania  
Western Pennsylvania Conservancy

**Unknown**

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Philadelphia Recycling Company  
Test America, Inc.  
PA DCNR

B. Source and Amount of Leveraged Funds (2010-2013)	
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<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>\$329,059</b>	<b>\$589,064</b>	<b>\$1,153,250</b>	<b>\$1,416,605</b>
DuPont Corporation	\$10,000	\$24,000	\$28,200	\$15,000
Erie Community Foundation		\$5,000		
Erie Maritime Museum		\$2,815		
Friends of Fish Foundation	\$9,000	\$9,250	\$15,150	\$9,000
Great Lakes National Program Office (US EPA)	\$65,458	\$14,541		
Illinois-Indiana Sea Grant				\$21,337
Lake Erie Allegheny Partnership	\$1,000	\$2,885	\$2,061	
Maryland Department of Natural Resources (MD DNR)	\$5,658	\$10,000		
National Oceanic and Atmospheric Administration (US DOC, NOAA)		\$35,000	\$144,230	\$110,420
National Science Foundation (NSF)	\$37,833			
Ohio Sea Grant				\$13,700
Penn State Behrend (PSU)		\$4,945		
Pennsylvania Coastal Resources Management Program (CRM)		\$13,102	\$142,866	
Pennsylvania Department of Conservation and Natural Resources (PA DCNR)			\$106,821	\$65,674
Pennsylvania Department of Environmental Protection (PA DEP)		\$3,152	\$28,518	\$492,148
Pennsylvania Fish and Boat Commission		\$92,174	\$23,277	\$290,000
Perseus House Charter School of Excellence		\$11,934	\$17,000	
Regional Science Consortium	\$3,132		\$27,957	
University of Maryland (UMD)	\$2,063	\$6,231		\$4,510
University of Minnesota Extension Service (UMN)	\$10,885	\$93,935		\$72,583
University of Wisconsin, Madison (UW)	\$3,072	\$9,858		\$6,568
US Department of Agriculture (USDA)		\$4,411	\$740	
US Department of Commerce (US DOC)	\$30,000			
US Environmental Protection Agency (US EPA)	\$150,958	\$245,831	\$604,067	\$154,002
US Fish and Wildlife Service (US DOI, FWS)				\$137,916
Western Pennsylvania Conservancy			\$4,743	\$12,647
Unreported Source			\$7,620	\$11,100
<b>Influenced</b>	<b>\$150,000</b>	<b>\$1,385,760</b>		<b>\$2,519,855</b>
Erie Community Foundation				\$50,000
Erie County, PA Department of Planning				\$1,800,000
Erie Times News		\$170,000		
Federal Highway Administration (US DOT, FHA)				\$584,855
Pennsylvania Coastal Resources Management Program (CRM)		\$1,065,760		
Pennsylvania Department of Conservation and Natural Resources (PA DCNR)		\$150,000		\$25,000
Pennsylvania Fish and Boat Commission	\$150,000			
US Environmental Protection Agency (US EPA)				\$60,000