

NJ Sea Grant Program

Site Review PIER Information

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

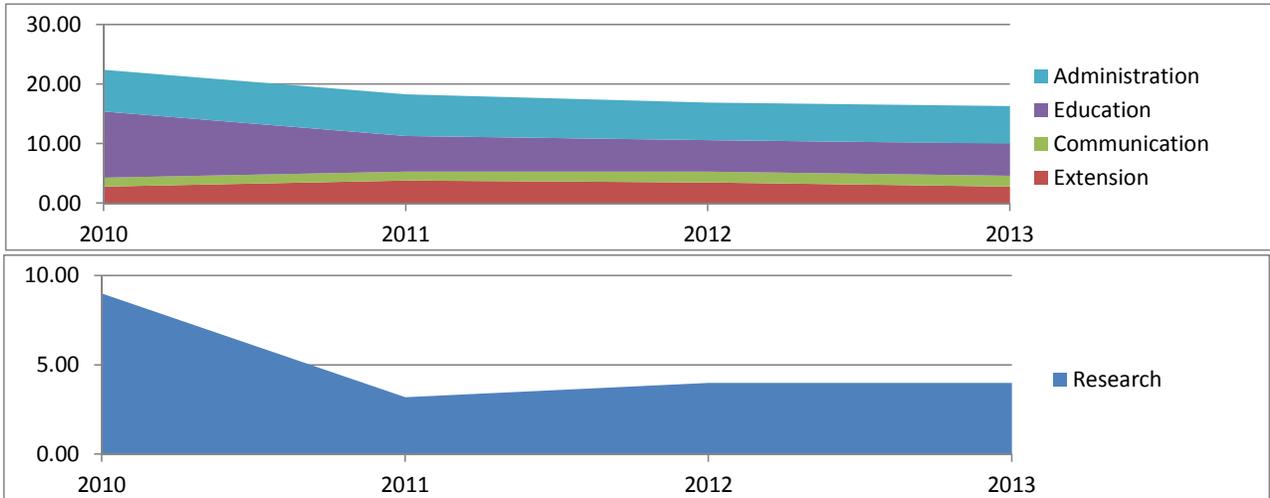
I. Program Management and Organization (organization, program team approach, support).

A. Sea Grant Staffing (2010-2013)

	Range of Annual Number of Individuals	Average Annual Full-Time Equivalents*
Administration	7	6.7
Extension	5-6	3.2
Communication	2	1.6
Education	43-47	6.9
Research	25-63	5.1

*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)

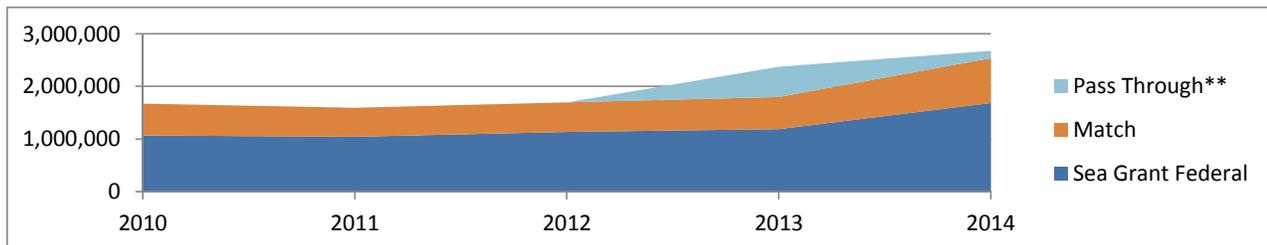


B. Total Funding by Source (2010-2014)

	Sea Grant Federal	Match	Pass Through**	Total Funding
2010	1,073,000	604,614	0	1,677,614
2011	1,043,000	553,517	0	1,596,517
2012	1,134,185	562,930	0	1,697,115
2013	1,189,283	614,807	576,207	2,380,297
2014	1,687,356	853,831	141,488	2,682,675

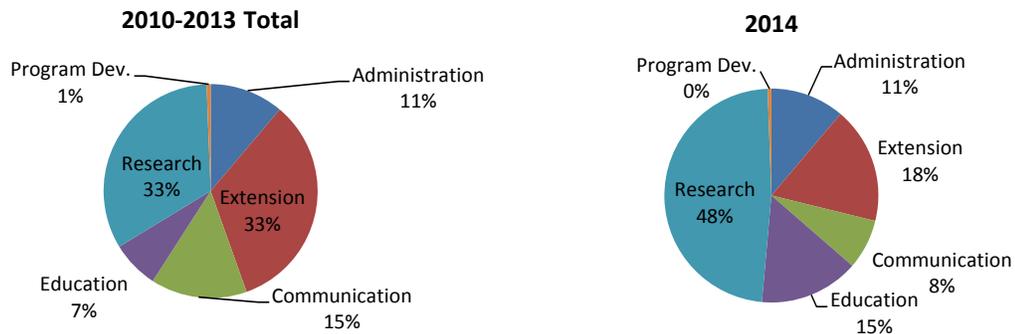
** Pass Through funding refers to federal funds not appropriated to Sea Grant, but administered through the National Sea Grant Office

Funding by Year (2010-2013)

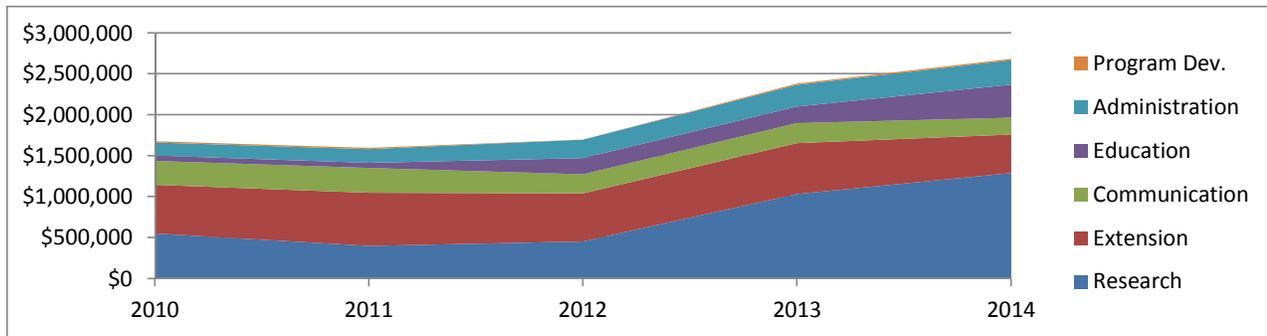


C. Distribution of Funding by Functional Area (Federal + Match + Pass Through)

	2010	2011	2012	2013	2014
Administration	161,688	168,466	225,000	265,707	300,425
Extension	595,609	649,413	585,274	622,497	472,449
Communication	292,915	300,721	232,500	244,517	203,036
Education	63,576	63,579	200,636	200,680	404,306
Research	548,826	399,338	453,705	1,031,896	1,287,459
Program Dev.	15,000	15,000	0	15,000	15,000



Trend (2010-2014)



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

	2011	2013
Pre-Proposals Submitted	18	33
Full Proposals Submitted	11	15
Proposals Funded	4	5
Institutions with Proposals Funded	2	6
Proposals Funded from Home Institution	2	2

E. Core-Funded Research Projects
2014
Advancing Eastern Oyster Aquaculture through Marker-assisted Selection (Dr. Ximing Guo)
Development of historically-calibrated sea level rise projections for risk management along the New Jersey Shore (Robert E. Kopp)
Facilitating Natural Dune Building (Nancy Jackson)
Understanding the impacts of climate change on the distribution, population connectivity, and fisheries for summer flounder (<i>Paralichthys dentatus</i>) in the Mid-Atlantic (Malin Pinsky)
A Green Technology for Nutrient and Metals Reduction in NJ Coastal Waters (Dibyendu Sarkar)
Development of Climate Change Adaptation Element for Municipal Land Use Plan (Karen Lowrie)
Genetic monitoring to improve fish stock assessments (Malin Pinsky)
Research (Peter Rowe)
Advancing Eastern Oyster Aquaculture through Marker-assisted Selection (Supplement) (Dr. Ximing Guo)
Determining Sustainable Catch Limits for Data-Poor Fisheries in New Jersey: Validation and Refinement of a Data-Poor Harvest Control Rule (John Wiedenmann)
Future Research Projects (Peter M. Rowe)
2012
Economic Vulnerability to Climate Change on the Jersey Shore: Promoting Adaptation, Resilience and Sustainability in Coastal New Jersey (Robin Leichenko)
Evaluating ecological and social impacts of New Jersey legislation regulating fertilizer nitrogen loads to Barnegat Bay – Little Egg Harbor Estuary by using isotopic signatures, seagrass demographics, social response, and communications (Michael Kennish)
The decline of winter flounder: Influences of changes in connectivity between estuaries and the inner continental shelf (Ken Able)
The influence of estuary geomorphology on accretion of coastal wetlands: a potential for priority planning for New Jersey coastal areas vulnerable to sea level rise (David Velinsky)
Comparative Analysis of Bivalve Clearance Rates for Restoration Management (David Bushek)
Developing the Sampling Protocols and Competencies Needed to Monitor Effectiveness of a Rain Garden Designed for Nitrogen Removal (Louise Wootton)
2010
Assessing Performance of 'Cape' American Beachgrass (Peek)
Meteorological Exchange (Chant)
Stock recruitment relationships (Jensen)
Summer Flounder Landings Data (Powell)
Impacts of Catch and Release on Striped Bass (Tiedemann)
Survey and Mapping of Temperate Reef Habitats (Straub)

F. NSI, Pass-through, and enhancement funds
2014
2014 Knauss Fellow (Anna Hermes) (Claire Antonucci) (NMFS)
Climate Extension (Peter M. Rowe) (SG-Climate)
NMFS/Sea Grant Fellowship - Population and Ecosystem Dynamics (Lisa McManus): Assessing the impacts of connectivity on coral reef metacommunity dynamics in the Coral Triangle (Simon Levin) (NMFS-SG-Fellowship)
Research (Peter Rowe) (SG-Social Science)
Aquaculture)
2013
Collaborative Climate Adaptation Planning for Urban Coastal Flooding (Peter Rowe) (SG-Climate)
New Jersey Sea Grant: Superstorm Sandy Rapid Response (Peter M. Rowe) (SG-PD)
NMFS_Population Dynamics Sea Grant Graduate Fellowship: An evaluation of data-poor stock assessment methods using data-rich stock assessments from the RAM Legacy Stock Assessment Database (Christopher Free) (NMFS-SG-Fellowship)
Undersea Imaging Workshop (Peter M. Rowe) (NMFS)
Adolescent and family decision-making in time of disaster (Unreported PI) (OAR-Disaster Relief Appropriations Act)
Forecasting evacuation behaviors of coastal communities in response to storm hazard information (Unreported PI) (OAR-Disaster Relief Appropriations Act)
Measuring public response to a surge of information: How individuals understand, react, and respond to storm surge media messages (Unreported PI) (OAR-Disaster Relief Appropriations Act)
They had the facts: Why didn't they act? Understanding and improving public response to NWS coastal flooding forecasts (Unreported PI) (OAR-Disaster Relief Appropriations Act)
Understanding responses to storm warnings: learning from those who 'rode out' Hurricane Sandy (Unreported PI) (OAR-Disaster Relief Appropriations Act)
An Audience Segmentation Analysis of Connecticut Coastal Residents to Support Storm Preparedness (Unreported PI) (OAR-Disaster Relief Appropriations Act)
Assessment of Social Media Usage during Severe Weather Events and the Development of a Twitter-based Model for Improved Communication of Storm-related Information (Unreported PI) (OAR-Disaster Relief Appropriations Act)
Behaviorally Realistic Communications to Improve the Public's Response to and Preparedness for High Impact Storm Events (Unreported PI) (OAR-Disaster Relief Appropriations Act)
Best practices in coastal storm risk communication (Unreported PI) (OAR-Disaster Relief Appropriations Act)
Coastal Storm Awareness Program: New Jersey Component (Peter M. Rowe) (OAR-Disaster Relief Appropriations Act)
Coastal Storm Awareness Program: New Jersey Component (Unreported PI) (OAR-Disaster Relief Appropriations Act)
Coastal Storm Awareness Program: New Jersey Component (Unreported PI) (OAR-Disaster Relief Appropriations Act)
Evaluating Evacuation Decision-making Processes among Residents of Long Beach, NY before Superstorm Sandy: Lessons for the role of authority and language in storm warnings (Unreported PI) (OAR-Disaster Relief Appropriations Act)
2012
Ocean Literacy - Minibus Supplemental Funds (Claire Antonucci) (SG-Social Science)
Economic Vulnerability to Climate Change on the Jersey Shore: Promoting Adaptation, Resilience and Sustainability in Coastal New Jersey (Robin Leichenko) (SG-Social Science)

2011

Aquaculture extension agent (Peter Rowe) (SG-Aquaculture)

2010

Coastal Communities Climate Adaptation Initiative (Pete Rowe) (SG-Climate)

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
673	84,436

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

15,157

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

	Students		Degrees Awarded
	New	Continuing	
Undergraduate	461	56	17
MS/MA	33	15	6
PhD	1	2	0
Professional Degree	1	0	0

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

76,732

III. Collaborative Network Activities (relationships and coordination).

A. Program Partners by Scale

FEDERAL or NATIONAL

Boy Scouts of America (BSA)
Cape May Plant Materials Center (USDA)
Federal Emergency Management Agency (US DHS, FEMA)
Jacques Cousteau National Estuary Research Reserve (US DOC, NOAA, NOS, NERRS)
National Fish and Wildlife Foundation (NFWF)
National Marine Fisheries Service (US DOC, NOAA, NMFS)
National Ocean Service (US DOC, NOAA, NOS)
National Oceanic and Atmospheric Administration (US DOC, NOAA)
National Park Service (US DOI, NPS)
National Science Foundation (NSF)
National Sea Grant Office (US DOC, NOAA, OAR, NSGO)
National Weather Service (Mount Holly)
National Weather Service (US DOC, NOAA, NWS)
NOAA/NMFS/James J. Howard Marine Science Laboratory
NOAA/NMFS/James J. Howard Marine Sciences Laboratory
North Atlantic Regional Team (US DOC, NOAA, NART)
Philadelphia District (DoD, Army, USACE)
The Academy of Natural Sciences
The New York-New Jersey Harbor Estuary Program (US EPA, NEP, HEP)
University of Connecticut, Non-point Education for Municipal Officials (UCONN NEMO)
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)
USDA NIFA Regional Water Center
21st Century Learning Centers

INTERNATIONAL

Regional Water Center for the Northeast States and Caribbean Islands (USDA, NIFA)
Riverkeeper
Surfrider Foundation
The Nature Conservancy
The Nature Conservancy (TNC)

LOCAL

Art of Survival
Asbury Park Beach Patrol
Asbury Park Environmental Commission
Asbury Park Press
Atlantic City Beach Patrol
Atlantic Saltwater Flyrodders
Barnegat Bay Partnership
Belmar Environmental Commission
Berkeley Striper Club
Berkeley Township Schools-Gifted and Talented Program
Betsy's Cape Shore Salts
Borough of Belmar

Borough of Brick Township
Boynton & Boynton
Bradley Beach Environmental Commission
Brandywine Valley Association
Bridgeton Public Schools
Brimm Medical Arts High School
Camden County Municipal Utilities Authority
Camden County Technical Schools
Cape May County
Cape May County 4-H Program
City of Newark
Cooper's Ferry Development Association
Cumberland County Department of Planning and Development
Cumberland County Empowerment Zone 21st Century Learning communities
Eatontown Environmental Commission
Elder Point Oyster Co.
Exelon Nuclear
Girl Scouts of the Jersey Shore
Hamilton Township Environmental Commission
Hamilton Township Planning Board
Hamilton Township Zoning Board
Huffville Elementary School
Ionature
Jacobs Engineering
Lavallette Beach Patrol
Lawnside Public School District
Long Branch Beach Patrol
Long Branch Office of Emergency Management (OEM)
Madison elementary School
Manasquan Environmental Commission
Maple Avenue School
Monmouth County Department of Economic Development and Tourism
Monmouth County Health Department
Monmouth County Parks Beach Patrol
Neptune Environmental Commission
New Jersey Resources
Newark Public School District
Normandy Beach Beach Patrol
North Wildwood Beach Patrol
Ocean County
Ocean Grove Beach Patrol
Philadelphia Water Department
Pinelands Nursery and supply
RCE of Camden County
Red Bank Public School District
Rockaway Valley School
Rutger Cooperative Extension of Camden County
Rutgers Center for Urban Environmental Sustainability
Rutgers Cooperative Extension of Essex County

Rutgers Office of Continuing Professional Education
Sea Girt Beach Control
South Seaside Park Beach Patrol
Sun Bank
Surf City Beach Patrol
Sussex Avenue School of the Arts and Sciences
The Camden Center for Transformation
Township of Bridgewater
Township of Lakewood, NJ
Township of Princeton
Urban Promise Academy
Washington Township Public School District
Westwood Environmental Commission
Wildwood Beach Patrol
Withum Smith & Brown
Woodrow Wilson High School
Wreck Pond Brook Watershed Regional Stormwater Management Plan Committee

REGIONAL

American Littoral Society
Atlantic County Office of Cultural and Heritage Affairs
Atlantic States Marine Fisheries Commission (ASMFC)
Camden SMART Initiative
Cape May County School District
Center for Inland Bays
Cumberland County School District
Delaware Noational Estuarine Research Reserve
Fluid Imagining Technologies Inc.
Hudson River National Estuarine Research Reserve System
Jersey Shore Surfcasters (JSS)
Long Beach Island Fishing Club
Mid-Atlantic Regional Association Coastal Ocean Observing System (MARACOOS)
Monmouth County Cool Cities Partnership
Monmouth County Office of Emergency Management (OEM)
New Hampshire Stormwater Center
Parkside Community partnership
Partnership for the Delaware Estuary
Rutgers Cooperative Extension 4-H Expressive Arts Program
Rutgers University, Haskin shellfish Research Laboratory
Sea Salt Community Supported Agriculture
Seaboard Fisheries Institute
South Jersey Natural Lands Trust
Sustainable South Bronx
Trust for Public Lands
University of New Hampshire Cooperative Extension
University of Rhode Island NEMO Program
VA Central Western Massachusetts Healthcare System
Manhattan College

STATE

Brookdale Community College

Channel 40 NBC
Connecticut Sea Grant
County College of Morris
Delaware Department of Natural Resources and Environmental control (DE DNREC)
Delaware Sea Grant
Drexel University
George Mason University (GMU)
Georgian Court University
Girl Scouts of America
Greater Newark Conservancy
Hawaii Sea Grant
Institute of Marine and Coastal Sciences, Rutgers University
Island Beach State Park
Jersey Shore Partnership
Kean University
Linden Public Schools
Maine Sea Grant
Manalapan-Englishtown School District
Marine Academy of Science and Technology
Maryland Sea Grant
Middlesex County College
Monmouth University
Montclair State University
New Jersey American Water
New Jersey Chapter of the American Society of Landscape Architects
New Jersey City University
New Jersey Coastal Protection Technical Assistance Service (NJCPTAS)
New Jersey Department of Agriculture (NJ NJDA)
New Jersey Department of Commerce (NJ DOC)
New Jersey Department of Environmental Protection (NJ DEP)
New Jersey Department of Environmental Protection, Coastal Management Program (NJ DEP)
New Jersey Department of Health and Senior Services (NJ DHSS)
New Jersey Department of Marine Fisheries (NJ DMF)
New Jersey Department of Transportation, Office of Maritime Resources (NJ DOT)
New Jersey Division of Fish and Wildlife (NJ DEP, NJ DFW)
New Jersey Division of Parks and Forestry (NJ DPF)
New Jersey Division of Travel and Tourism (NJ DTT)
New Jersey Lighthouse Society
New Jersey Nursery and Landscape Association (NJNLA)
New Jersey Office of Emergency management
New Jersey Sea Grant
New Jersey Sea Grant Consortium Member Institutions
New Jersey Tree Foundation
New Jersey Water Resources Research Institute
New York City Economic Development Corporation (NY EDC)
New York Sea Grant
New York State Department of Environmental Conservation (NY DEC)
New York/New Jersey Baykeeper
New York/New Jersey Harbor Estuary Program

North Carolina Sea Grant
Ocean County College
Ocean County Cultural and Heritage Commission
Ocean County Department of Planning
Ocean County Department of Public Affairs and Tourism
Pennsylvania Sea Grant
Richard Stockton College Coastal Resource Center
Richard Stockton College of New Jersey
Rider University
Rutgers Cooperative Extension
Rutgers University
Rutgers University Marine Field Station (RUMFS)
Rutgers University, Department of Earth and Planetary Sciences
Seton Hall University
South Jersey Ports Corporation
Stony Brook University
Stripers Forever
Sussex County Planning Department
The College of New Jersey
The Nature Center of Cape May
University of Connecticut, Center for Land Use Education and Research (UCONN)
University of Maryland (UMD)
University of North Carolina, Chapel Hill (UNC)
University of Pennsylvania
Urban Coast Institute at Monmouth University
Virginia Institute of Marine Science (VIMS)
Virginia Sea Grant
Water Resources Institute, Rutgers University
Wetlands Institute
William Patterson University
Wright State University
Rutgers, The State University of New Jersey
Sustainable Jersey Climate Change Task Force

Unknown

Association for New Jersey Environmental Educators
Atlantic Cape Fisheries
Atlantic Capes Fisheries
Bahrs Landing and Seafood Restaurant
Boy Scouts of America
Coastal Communities (TBD)
H.S. Concessions, Inc.
Jenkinson's Aquarium
Leckner Consulting
Liberty Science Center
Lobster House Restaurant
Marine Trades Association
Metropolitan Waterfront Alliance
Mid-Atlantic Center for the Arts
Monmouth County Arts Council

Monmouth County Tourism
Najarian Associates
National Park Service
New Jersey Audubon Society
New Jersey Department of Environmental Protection, Division of Parks and Forestry
New Jersey Institute Of Technology
New Jersey Natual Gas
New Jersey Natural Gas
New York Shipping Association, Inc.
NJ Division of Travel and Tourism
NJ Marine Educators Association
NJ School Districts (many)
NJ School-aged Child Care Coalition
NJDEP
NJSJC's member institutions
NJSJC's member institutions.
Ocean County Soil Conservation District
Ramapo College of New Jersey
Richard Stockton College of NJ
Rutgers
Sandy Hook Foundation
Shark River Cleanup Coalition
Sparks Marketing
Star's Challenge
Stevens Institute Of Technology
Viking Village
Office of Laboratories and Cooperative Institutes and NOAA Science Advisory Board (US DOC, NOAA)

B. Source and Amount of Leveraged Funds (2010-2013)	
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Amounts	Year			
Source	2010	2011	2012	2013
Managed	\$987,352	\$885,142	\$1,365,889	\$551,789
Jersey Shore Partnership		\$5,000		
Linden Public Schools		\$22,445		
Lobster House Restaurant		\$5,000		
Maine Sea Grant	\$4,000			
National Fish and Wildlife Foundation (NFWF)		\$101,019	\$73,860	
National Science Foundation (NSF)		\$20,000	\$42,677	\$7,500
National Sea Grant Law Center			\$10,000	
New Jersey Department of Environmental Protection (NJ DEP)	\$94,121	\$149,604	\$698,319	\$368,550
New Jersey Department of Environmental Protection, Coastal Management Program (NJ DEP)	\$119,483	\$20,000	\$26,134	
New Jersey Department of Transportation, Office of Maritime Resources (NJ DOT)	\$280,945	\$238,815	\$39,789	
New Jersey Natural Gas				\$12,600
New Jersey Natural Gas		\$56,500	\$13,500	
New Jersey Sea Grant Consortium Member Institutions		\$16,616	\$7,854	
Red Bank Public School District		\$3,900		
South Jersey Ports Corporation	\$18,665			
University of Delaware (UDEL)			\$12,567	
University of Maryland (UMD)			\$9,317	
US Department of Agriculture (USDA)			\$1,045	
US Fish and Wildlife Service (US DOI, FWS)	\$18,830	\$64,964	\$59,684	
Unreported Source	\$451,308	\$181,279	\$371,143	\$163,139
Influenced	\$467,222	\$1,502,296	\$347,280	\$638,525
Barnegat Bay Partnership				\$2,500
Clear into the Future: A duPont		\$25,000		\$12,500
Connecticut Sea Grant		\$30,000		
Cumberland County Improvement Authority			\$25,000	
Delaware Sea Grant		\$31,857		
Fluid Imaging Technologies				\$33,280
Fluid Imaging Technologies Inc.			\$34,780	
Jacques Cousteau National Estuary Research Reserve (US DOC, NOAA, NOS, NERRS)				\$2,500
Maryland Sea Grant		\$200,000		
National Oceanic and Atmospheric Administration (US DOC, NOAA)			\$50,000	
National Science Foundation (NSF)		\$90,000		
New Jersey Department of Environmental Protection (NJ DEP)	\$412,000	\$875,561	\$150,000	\$136,000
New York State Department of Environmental Conservation (NY DEC)				\$11,000
Rutgers University				\$88,245
US Department of Agriculture (USDA)		\$94,878	\$25,000	
US Environmental Protection Agency (US EPA)	\$13,889		\$10,000	

USDA NIFA Regional Water Center			\$5,000	
Virginia Sea Grant		\$130,000		
Unreported Source	\$41,333	\$20,000	\$47,500	\$352,500
21st Century Learning Centers		\$5,000		