

NC Sea Grant Program

Site Review PIER Information

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

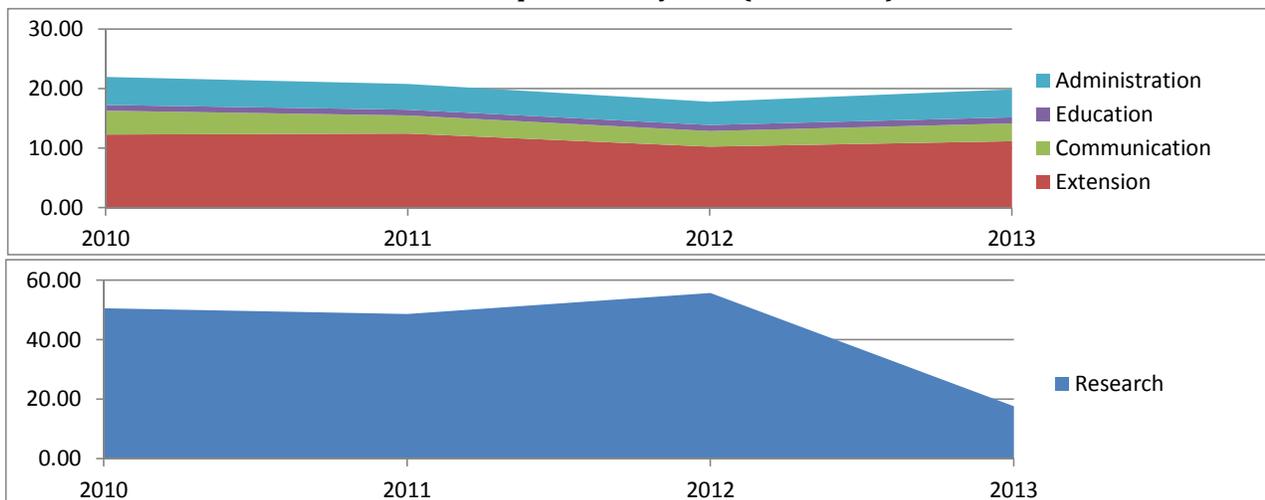
I. Program Management and Organization (organization, program team approach, support).

A. Sea Grant Staffing (2010-2013)

	Range of Annual Number of Individuals	Average Annual Full-Time Equivalents*
Administration	5-6	4.4
Extension	14-15	11.5
Communication	3-4	3.2
Education	1	1.0
Research	117-182	43.2

*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)

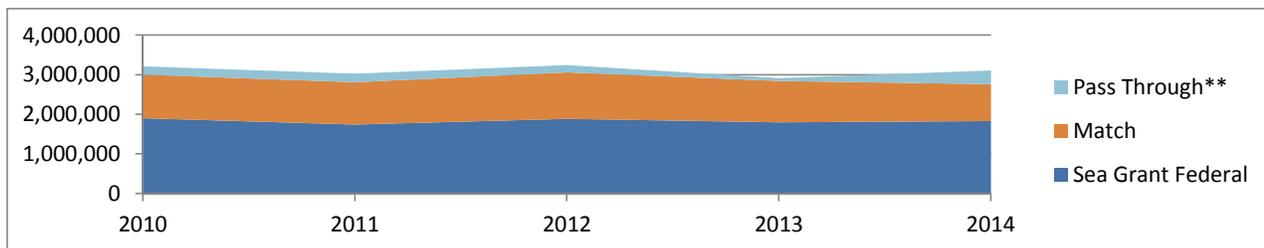


B. Total Funding by Source (2010-2014)

	Sea Grant Federal	Match	Pass Through**	Total Funding
2010	1,900,055	1,102,300	207,250	3,209,605
2011	1,744,971	1,069,813	213,000	3,027,784
2012	1,891,182	1,170,441	180,750	3,242,373
2013	1,798,142	1,042,141	77,500	2,917,783
2014	1,832,834	927,601	352,246	3,112,681

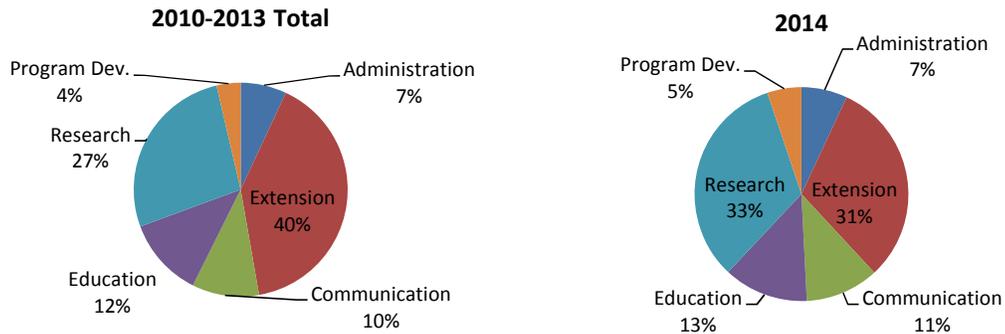
** Pass Through funding refers to federal funds not appropriated to Sea Grant, but administered through the National Sea Grant Office

Funding by Year (2010-2013)

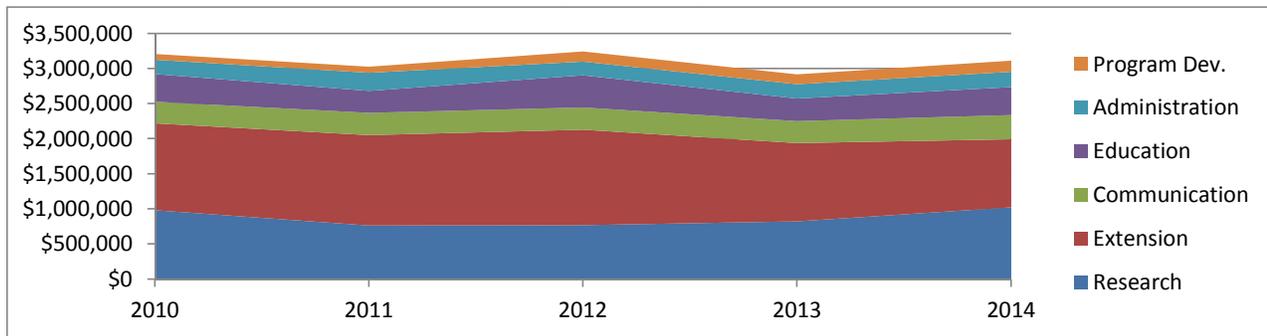


C. Distribution of Funding by Functional Area (Federal + Match + Pass Through)

	2010	2011	2012	2013	2014
Administration	203,419	258,526	193,647	204,418	216,642
Extension	1,236,741	1,286,595	1,356,964	1,115,983	969,185
Communication	309,569	316,119	318,812	314,872	346,028
Education	392,985	316,125	457,871	322,734	398,874
Research	981,891	765,419	770,617	820,854	1,021,755
Program Dev.	85,000	85,000	144,462	138,922	160,197



Trend (2010-2014)



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

	2011	2013
Pre-Proposals Submitted	46	55
Full Proposals Submitted	23	19
Proposals Funded	12	12
Institutions with Proposals Funded	5	5
Proposals Funded from Home Institution	5	3

E. Core-Funded Research Projects
2014
Building Ocean and Climate Literacy in North Carolina through a Project WET Climate Literacy Module (Markus Peterson)
Development of Tourism Trails to Benefit Rural Coastal Economies and to Preserve National Resources and Coastal Heritage (Karen Amspacher)
Effects of sea-level rise on coastal freshwater wetland animals (Michael McCoy)
Integrating Eukaryotic and Prokaryotic Plankton Community Transcriptomics into an Ecological Network Analysis of the Neuse River Estuary (Adrian Marchetti)
Labor Implications of Sustainable Coastal Development: Relations between Coastal and Inland Communities (David Griffith)
Metapopulation Dynamics Guides Oyster Restoration and Habitat Protection (David Eggleston)
Population connectivity of southern flounder in the US South Atlantic (Frederick Scharf)
Rapid Detection of Fecal Indicator Bacteria in Water by Enzymatic Hydrolysis of Specific Chromogenic Substrates (Jill Stewart)
Strengthening the Hurricane Wave and Surge Forecast Guidance provided to Coastal Communities in North Carolina (Joel Dietrich)
Studying stormwater runoff to better protect public health at North Carolina beaches (Rachel Noble)
Understanding the impacts of climate change on the distribution, population connectivity, and fisheries for summer flounder (<i>Paralichthys dentatus</i>) in the Mid-Atlantic - North Carolina (Joel Fodrie)
Validating a New and Reliable Method to Determine the Age of Blue Crabs (Robert Roer)
North Carolina Sea Grant Resilience Research Program (John Fear)
2012
A Comprehensive Evaluation of Biological and Ecological Factors Influencing the Sustainable Management of Large Pelagic Fishes in North Carolina Waters (Fredrick Scharf)
A Metatranscriptomic Survey of the Eukaryotic Plankton Community Along the Freshwater-Marine
Application of genetic markers to inform river herring management (Tom Schultz)
Are fish productivity metrics related to anthropogenic alterations of habitat? (Jeffrey Buckel)
Building Ocean Literacy among North Carolina's K-12 Students; a Project in Conjunction with the North Carolina Environmental Literacy Plan (Markus Nils Peterson)
Economic Values of Coastal Erosion Management (Craig Landry)
Examining the Source and Transport of Land-derived Material Impacting North Carolina Coastal Waters: An Integrated Approach using Remote Sensing, Fluorescence Spectroscopy and Geochemical Analysis
Managing Reproductive Failure in Fisheries and on Fish Farms: A Joint NC/SC Sea Grant Project (Craig
Metapopulation Dynamics Guides Oyster Restoration and Shell Budgets in NC (David Eggleston)
Optimization of Ions for low salinity culture of southern flounder with emphasis on reduction of sodium chloride in recirculating aquaculture systems (Harry Daniels)
Quantifying Oyster-Reef Accretion Rates and Structural Evolution for Improving Restoration Success
Vulnerability of coastal sewage collection systems to inundation (Lawrence Cahoon)
2010
A novel approach to improving resistance to the parasite causing dermo in oyster (Ed Noga)
Assessing the potential for estuarine nitrogen removal using ecosystem engineers (Michael Piehler)
Community Wind Education and Job Training in Coastal North Carolina (Pam Carpenter)
Effects of Habitat Alteration and Biotic Interactions on Survival of Juvenile Estuarine Fish (Joseph
Environmental Stress and Microbial Dynamics of Oysters and Marsh Mussels (Amy Ringwood)
Impacts of Sea-level Rise and Land-use Modifications on Fringing Marsh Sustainability (Brent McKee)
Optimizing All-Female Southern Flounder Culture in Low Saline Waters (Russell Borski)

Sand Dune Restoration: What is Local? Understanding Relationships Between Evolutionary History of Sea Oats (<i>Uniola paniculata</i>) Poaceae and Adaptations to Local Environmental Conditions (Eva Gonzales)
The physiological basis of winter-induced stress and mortality in juvenile red drum (Frederick Scharf)
To Seed or Not to Seed: The Value of Seeding Restored Oyster Reefs for Ecosystem Function (Christopher
Tourism Impacts and Second Home Development in Coastal Communities: A Sustainable Approach

F. NSI, Pass-through, and enhancement funds
2015
Gulf of Mexico Estuarine and Marine Fish Habitat Assessment (Daniel R Obenour) (NMFS)
2014
2014 Knauss Fellow (Andrea Dell'apa) (Susan White) (NMFS)
2014 Knauss Fellow (Eimon (Emma) Htun) (Susan White) (NMFS)
2014 Knauss Fellow (Jessica Ritter) (Susan White) (SG-FEL-KNAUSS)
Marine Mammals Stocks and Fishery Interactions in the Southeast Atlantic (John Fear) (NMFS)
North Carolina Sea Grant Extension Agent Project: Moving the NOAA North Carolina Sentinel Site Cooperative forward through collaborative extension (Jennifer Dorton) (NOS)
Do Catch Shares Increase Ex-vessel Prices in U.S. Fisheries? (Martin Smith) (NMFS)
North Carolina Sea Grant College Program: North Carolina Sea Grant Climate Proposal 2014-2017 (Susan White) (SG-Climate)
North Carolina Sea Grant Resilience Research Program (John Fear) (SG-Social Science)
2013
NMFS Population Dynamics Sea Grant Graduate Fellowship: Linking Habitat to Stock Assessment: Rigorously Modeling the Role of Estuarine Juvenile Habitats in Sustaining Offshore Fishery Production (Susan White) (NMFS)
Noah Chesnin_NC_Knauss Fellowship 2013 (Susan White) (SG-FEL-KNAUSS)
Wendy Dow Piniak_NC_Knauss Fellowship 2013 (Susan White) (NMFS)
2012
Emily Vuxton NC Sea Grant Knauss Fellowship 2012 (Michael Voiland) (ARMY)
Kristen Jabanoski NC Sea Grant Knauss Fellowship 2012 (Michael Voiland) (OAR)
NMFS Population Dynamics Sea Grant Graduate Fellowship - An assessment of pelagic predator populations since the establishment of marine protected areas: does a spillover effect exist? (Unreported PI) (NMFS-SG-Fellowship)
North Carolina Sea Grant College Program: Enhancing Sea Grant's Ability to Help Coastal Communities
North Carolina Sea Grant College Program: Communications (Kathleen Mosher Patterson) (SG-Social)
North Carolina Sea Grant College Program: Proposal Development (Michael P. Voiland) (SG-Social Science)
2011
2011 Bycatch Reduction of Marine Mammals in Mid-Atlantic Fisheries Research Funding Opportunity
Jennifer L. Cudney_NC_Sea Grant Knauss Fellowship 2011 (Unreported PI) (NMFS)
Joshua S. Stoll_NC_Sea Grant Knauss Fellowship 2011 (Unreported PI) (NMFS)
Matthew D. Lettrich_NC_Sea Grant Knauss Fellowship 2011 (Unreported PI) (NOS)
2010
2010 Dean John A. Knauss Marine Policy Fellowship - Christina Durham (Michael P. Voiland) (NOAA-Marine Mammal Bycatch Reduction and Related Research in Cooperation with North Carolina Sea Grant)
NMFS_Population Dynamics Sea Grant Graduate Fellowship: Designing Marine Reserve Networks for Oyster Restoration: A Metapopulation and Graph-theoretic Approach (David Eggleston) (NMFS-SG-)
2010 Dean John A. Knauss Marine Policy Fellowship - Anna-Marie Laura (Unreported PI) (SG-FEL-)
2010 Dean John A. Knauss Marine Policy Fellowship - Ashley Erickson (Unreported PI) (SG-FEL-KNAUSS)
2010 Dean John A. Knauss Marine Policy Fellowship - Jennie Dean (Unreported PI) (NAVY)
Developing Tools for the Growth of North Carolina Shellfish Industry: Site Condition Assessment and Fisheries Extension - Transition: Towards Fuller Integration of Improved Fisheries Extension Program Elements within North Carolina Sea Grant and North Carolina Fisheries Management Community
Preparing for Climate Change: Helping Small Coastal Communities Develop Adaptive Strategies (John F. Sea Grant Coastal Processes Specialists Roundtable: Making Coastal Hazards and Climate Adaptation Work

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
852	323,197

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

3,450

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

	Students		Degrees Awarded
	New	Continuing	
Undergraduate	94	46	46
MS/MA	84	79	34
PhD	63	44	9
Professional Degree	6	12	1

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

89,774

III. Collaborative Network Activities (relationships and coordination).

A. Program Partners by Scale

FEDERAL or NATIONAL

ACE Basin National Estuarine Research Reserve (US DOC, NOAA, NOS, NERRS)
Albemarle-Pamlico National Estuary Program (US EPA, NEP)
American Fisheries Society (AFS)
American Meteorological Society (AMS)
American Society of Civil Engineers (ASCE)
Beaufort Lab (US DOC, NOAA, NMFS, SEFSC)
Bureau of Ocean Energy Management
Cape Hatteras National Seashore, National Park Service (US DOI, NPS)
Carolina Fisheries
Climate Program Office (US DOC, NOAA, OAR, CPO)
Coastal Services Center (US DOC, NOAA, NOS, CSC)
Federal Emergency Management Agency (US DHS, FEMA)
Federal Highway Administration (US DOT, FHA)
Guana Tolomato Matanzas National Estuarine Research Reserve (US DOC, NOAA, NOS, NERRS)
Gulf Coast Marine Life Center
Highly Migratory Species Division (US DOC, NOAA, NMFS, HMS)
Institute of Business and Home Safety (IBHS)
Monitor National Marine Sanctuary (US DOC, NOAA, NOS, ONMS)
National Center for Cool and Cold Water Aquaculture (USDA, ARS)
National Centers for Coastal Ocean Science (US DOC, NOAA, NOS, NCCOS)
National Estuarine Research Reserve System (US DOC, NOAA, NOS, NERRS)
National Hurricane Center (US DOC, NOAA, NWS, NHC)
National Marine Educators Association
National Marine Fisheries Service (US DOC, NOAA, NMFS)
National Marine Fisheries Service, Beaufort (US DOC, NOAA, NMFS)
National Marine Fisheries Service, Milford (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 College Program (US DOC, NOAA, OAR, NSGCP)
National Sea Grant Office (US DOC, NOAA, OAR, NSGO)
National Severe Storms Laboratory (US DOC, NOAA, OAR, NSSL)
National Weather Service (US DOC, NOAA, NWS)
National Weather Service, Marine Forecast (US DOC, NOAA, NWS)
National Weather Service, Newport, NC (US DOC, NOAA, NWS)
National Weather Service, Raleigh, NC (US DOC, NOAA, NWS)
National Weather Service, Wilmington, NC (US DOC, NOAA, NWS)
National Wildlife Refuge System (US DOI, FWS)
NCCOS Beaufort Lab (US DOC, NOAA, NOS, NCCOS)
NOAA Fisheries Office of Protected Resources
NOAA in the Carolinas (US DOC, NOAA)
NOAA Research (US DOC, NOAA, OAR)
North Inlet-Winyah Bay National Estuarine Research Reserve (US DOC, NOAA, NOS, NERRS)
Oceanographer of the Navy (US DOD, NAVY)

Office of Climate, Weather, and Water Services (US DOC, NOAA, NWS)
Office of Education (US DOC, NOAA, OED)
Office of Legislative Affairs (US DOC, NOAA)
Office of Protected Resources (US DOC, NOAA, NMFS)
Southeast Fisheries Science Center (US DOC, NOAA, NMFS, SEFSC)
Southeast River Forecast Center, NWS, NOAA
Striped Bass Growers Association
Stuttgart National Aquaculture Research Center (USDA, ARS)
The North Carolina Coastal Reserve & National Estuarine Research Reserve (US DOC, NOAA, NOS, NERRS)
U.S. Representative Sam Farr - California
U.S. Senator Sheldon Whitehouse - Rhode Island
US Agency for International Development (USAID)
US Army Corps of Engineers (DOD, Army, USACE)
US Coast Guard (US DHS, USCG)
US Coast Guard Auxiliary (US DHS, USCG)
US Department of Agriculture (USDA)
US Department of Homeland Security (US DHS)
US Department of the Navy (US DOD, NAVY)
US Environmental Protection Agency (US EPA)
US Fish and Wildlife Service (US DOI, FWS)
US Food and Drug Administration (US HHS, FDA)
US Geological Survey (US DOI, USGS)
US Lifesaving Association
US Marine Corps Base Camp Lejeune (US DOD, Marines)
Various Commercial Fishers
Wanchese Fish Company
Water Resources of the United States (US DOI, USGS)
Office of International Affairs (US DOC, NOAA, NMFS)
Office of Management and Budget (US DOC, NOAA, NMFS)
U.S. Senate Commerce Committee, Democratic Staff

INTERNATIONAL

Ocean Conservancy
Queensland Catch, Australia
The Coastal Society
The Nature Conservancy (TNC)

LOCAL

Albemarle Resource Conservation & Development Council
Beaufort County (SC) Planning Department
Brunswick Catch
Brunswick County Chamber of Commerce
Brunswick County Planning and Community
Camden County High School
Camden County Schools
Cape Hatteras Secondary School
Carolina Beach, NC
Carteret County Beach Commission
Carteret County Chamber of Commerce
Carteret County Economic Development Council
Carteret County Fishermen's Association

Carteret County Shore Protection Office
Carteret County, N.C.
Core Sound Waterfowl Museum
Currituck County Chamber of Commerce
Currituck County Cooperative Extension
Currituck County Planning and Community Development Office
Currituck County Property Owners Association
Currituck County, N.C.
Dare County Board of Education
Dare County Chamber of Commerce
Dare County Emergency Management
Dare County Schools
Dare County, NC
Down East Carteret County communities
Hatteras Connection
Hatteras Island communities
Kitty Hawk Ocean Rescue
Kure Beach, NC
Mattamuskeet High School
N.C. Emergency Management Association
New Hanover County
New Hanover County Emergency Management
New Hanover County Rip Current Awareness Strategies Team
New Hanover County Schools
Ocracoke Island community
Outer Banks National Scenic Byway
Pacific Islands Fisheries Science Center
Pamlico County
Pender County Chamber of Commerce
Pender County Planning and Community Development Office
Pender County Tourism Development Authority
Pender County, N.C.
Plymouth, N.C.
Renaissance Computing Institute (RENCI)
Riverworks at Sturgeon City
Town of Wrightsville Beach, NC Ocean Rescue
UNC Press
UNC-TV
Wrightsville Beach Ocean Rescue
Wrightsville Beach, NC

REGIONAL

Atlantic States Marine Fisheries Commission (ASMFC)
Carolina Feeds
Centers for Ocean Sciences Education Excellence, Southeast (COSEE)
Governors' South Atlantic Alliance
Mid-Atlantic Marine Education Association
Mid-Atlantic Regional Panel for Aquatic Invasive Species
Mid-Atlantic Sea Grant Region
South Atlantic Fishery Management Council (SAFMC)

STATE

Alaska Sea Grant
Appalachian State University (AppState)
Association of Mexicans in North Carolina
Atlantic Estuarine Research Society
Blue Ocean Farms
Brunswick County, N.C.
California Sea Grant
Camp Lejeune, U.S. Marine Corps
Cape Lookout National Seashore, NPS
Carolina Flounder
Carteret Catch, Morehead City
Castle Hayne Fisheries
Center for Marine Sciences and Technology, North Carolina State University (NCSU)
Center for Natural Hazards Research, East Carolina University (ECU)
Center for Sustainable Tourism, East Carolina University (ECU)
College of the Albemarle
Core Sound Seafood Community Supported Fishery
Dare County Schools, Cape Hatteras Secondary School
Delaware Sea Grant
Duke University
Duke University, Marine Laboratory
East Carolina University (ECU)
Eastern Carolina Council of Governments
Elizabeth City State University
Elon University
Environmental Educators of North Carolina
Florida Sea Grant
Florida State University (FSU)
Georgia Sea Grant
Hyde County, NC
Institute for Coastal Science & Policy, East Carolina University (ECU)
Keo Fish Farms
Little River Aquaculture
Louisiana Sea Grant
Maine Sea Grant
Maryland Department of Natural Resources (MD DNR)
Maryland Sea Grant
Mid-Atlantic Fisheries Management Council (MAFMC)
Mississippi-Alabama Sea Grant Consortium
N.C. Beach, Inlet, and Waterways Association
Nature's Catch
NC Office of the Governor
New Hampshire Sea Grant
New Jersey Sea Grant
New York Sea Grant
North Carolina Aquaculture Development Conference
North Carolina Aquarium on Roanoke Island

North Carolina Aquariums
North Carolina Catch
North Carolina Central University (NCCU)
North Carolina Clean Water Management Trust Fund
North Carolina Coastal Federation
North Carolina Coastal Reserves
North Carolina Coastal Resources Commission (NC CRC)
North Carolina Coastal Resources Law, Planning & Policy Center
North Carolina Cooperative Extension
North Carolina Department of Agriculture and Consumer Services, Aquaculture
North Carolina Department of Agriculture and Consumer Services, Food and Drug Division (NC AGR)
North Carolina Department of Agriculture and Consumer Services, Seafood Marketing Division
North Carolina Department of Commerce (NC DOC)
North Carolina Department of Crime Control and Public Safety, Division of Emergency Management
North Carolina Department of Cultural Resources, North Carolina Underwater Archaeology Branch
North Carolina Department of Environment and Natural Resources (NC DENR)
North Carolina Department of Environment and Natural Resources, North Carolina Coastal Habitat Protection Plan (NC DENR)
North Carolina Department of Environment and Natural Resources, North Carolina Coastal Hazards Science Panel (NC DENR)
North Carolina Department of Insurance
North Carolina Division of Coastal Management (NC DENR, DCM)
North Carolina Division of Marine Fisheries (NC DENR, DMF)
North Carolina Division of Parks and Recreation ((NC DENR, DPR)
North Carolina Division of Water Quality (NC DENR, DWQ)
North Carolina Division of Water Resources (NC DWR)
North Carolina Fisheries Association
North Carolina Floodplain Mapping Program
North Carolina General Assembly
North Carolina Geospatial & Technology Management Office
North Carolina Homebuilders Association
North Carolina Legislative Study Commission on Emergency Preparedness and Building Codes
North Carolina Marine Fisheries Commission
North Carolina Museum of Natural Sciences
North Carolina National Estuarine Research Reserve
North Carolina Office of Environmental Education
North Carolina Rural Center
North Carolina Rural Economic Development Center Inc.
North Carolina Sea Grant
North Carolina Seafood Festival
North Carolina Shellfish Growers Association
North Carolina Shellfish Sanitation Section of the Division of Environmental Health
North Carolina State Center for Marine Science & Technology
North Carolina State Emergency Response Team
North Carolina State Natural Resources Leadership Institute
North Carolina State of Practice Committee
North Carolina State Parks
North Carolina State Seafood Laboratory
North Carolina State University (NCSU)
North Carolina Sustainable Local Foods Advisory Council
North Carolina Underwater Archaeology Branch

North Carolina Waterfront Access & Marine Industries Fund
North Carolina Waterfront Access Study Committee
North Carolina Watermen United
North Carolina Wildlife Resources Commission
North Carolina Wind Advisory Group
Northeastern University
Ocracoke Foundation
Oregon Sea Grant
Pungo Fisheries
Renaissance Computing Institute Engagement Center, East Carolina University (ECU)
Representative Sam Far's Congressional Office
Saltwaterconnections.org
Seafood Marketing Division, North Carolina Department of Agriculture and Consumer Services (NC AGR)
Shellfish Gardeners of North Carolina
Solar Center, North Carolina State University (NCSU)
South Atlantic Sea Grant region
South Carolina Department of Natural Resources (SC DNR)
South Carolina Sea Grant Consortium
Texas A&M University (TAMU)
Texas Sea Grant
Underwater Archaeology Branch, Office of State Archaeology, NC Department of Cultural Resources
University of Florida (UF)
University of Georgia Marine Extension Service (UGA)
University of Georgia Press
University of North Carolina Coastal and Marine Research Council
University of North Carolina Press
University of North Carolina System
University of North Carolina, Chapel Hill (UNC)
University of North Carolina, Charlotte (UNCC)
University of North Carolina, Coastal Studies Institute (UNC)
University of North Carolina, Greensboro (UNCG)
University of North Carolina, Institute for Marine Sciences (UNC)
University of North Carolina, Wilmington (UNCW)
University of North Carolina, Wilmington Center for Marine Science (UNCW)
University of Notre Dame (ND)
University of Oklahoma (OU)
University of South Carolina (USC)
US Army Corps of Engineers Field Research Facility, Duck, N.C. (DoD, Army, USACE)
USDA-NRCS
Virginia Aquarium and Marine Science Center
Virginia Commonwealth University (VCU)
Virginia Institute of Marine Science (VIMS)
Virginia Sea Grant
Wake Forest University (WFU)
Z Smith Reynolds Foundation

Unknown

Artesian Aquafarms LLC
Blog Together/Science Online
Business Alliance for a Sound Economy

Full Circle Crab Company, Inc.
Hooper Family Seafood
Little River Trails Aquaculture
Moffatt and Nichol Engineering
National Association of Science Writers
Ocracoke Fresh
Ocracoke Seafood
Onslow County, N.C.
Outer Banks Catch
Saltwater Connections

B. Source and Amount of Leveraged Funds (2010-2013)	
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Amounts	Year			
Source	2010	2011	2012	2013
Managed	\$823,603	\$499,709	\$525,880	\$447,537
Georgia Sea Grant				\$1,000
Governors' South Atlantic Alliance				\$4,000
Mississippi-Alabama Sea Grant Consortium	\$23,560			
Moffatt and Nichol Engineering				\$1,900
National Oceanic and Atmospheric Administration (US DOC, NOAA)			\$12,625	
North Carolina Department of Environment and Natural Resources (NC DENR)	\$355,546	\$100,000	\$100,000	
North Carolina General Assembly	\$337,394	\$339,001	\$348,213	\$293,064
Oregon Sea Grant	\$7,000	\$7,000		
South Carolina Sea Grant Consortium	\$46,589	\$1,250		\$1,500
The Coastal Society		\$1,750		
University of Florida (UF)			\$20,032	
University of Georgia (UGA)				\$99,727
University of Maryland, Horn Point	\$7,500	\$7,500		
Virginia Polytechnic Institute and State University (VT)	\$5,478			
North Carolina State University	\$40,536	\$43,208	\$45,010	\$46,346
Influenced	\$2,979,202	\$700,990	\$972,646	\$1,067,284
Albemarle Resource Conservation & Development Council		\$200,000		
American Fisheries Society (AFS)		\$300		
Artesian Aquafarms LLC		\$18,000		
Carteret County, N.C.				\$2,000
East Carolina University (ECU)			\$3,200	\$1,200
Gulf Coast Marine Life Center				\$90,661
National Estuarine Research Reserve System (US DOC, NOAA, NOS, NERRS)		\$60,000		
National Marine Fisheries Service (US DOC, NOAA, NMFS)			\$315,896	
National Science Foundation (NSF)	\$2,338,099			\$469,897
North Carolina Biotechnology Center	\$66,841		\$74,991	
North Carolina Department of Agriculture and Consumer Services, Food and Drug Division (NC AGR)			\$3,500	
North Carolina Department of Environment and Natural Resources (NC DENR)		\$346,940		\$399,827
North Carolina Division of Marine Fisheries (NC DENR, DMF)			\$227,989	
North Carolina Rural Center	\$350,000			
North Carolina Rural Economic Development Center Inc.			\$100,000	

North Carolina State University (NCSU)		\$38,000		
Renaissance Computing Institute (RENCI)		\$600	\$300	
Stuttgart National Aquaculture Research Center (USDA, ARS)	\$12,000			
The Coastal Society		\$300		
University of North Carolina, Chapel		\$4,850		\$12,268
University of North Carolina, Wilmington (UNCW)		\$27,000	\$12,000	\$1,400
US Bureau of Ocean Energy Management (US DOI, BOEM)			\$215,000	
US Department of Agriculture (USDA)	\$212,262	\$5,000	\$18,000	
Castle Hayne Fisheries			\$120	
William Stapp Scholarship			\$450	\$450
Zeigler Brothers Inc			\$1,200	
North Carolina Marine Resources Fund				\$89,581