

AK Sea Grant Program

Site Review PIER Information

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

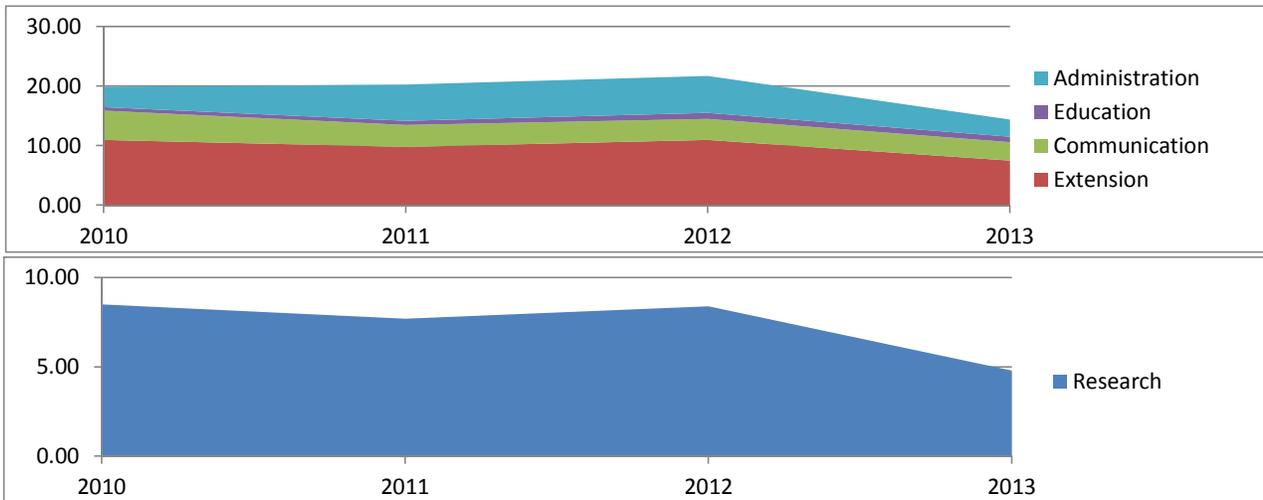
I. Program Management and Organization (organization, program team approach, support).

A. Sea Grant Staffing (2010-2013)

| | Range of Annual Number of Individuals | Average Annual Full-Time Equivalents* |
|-----------------------|---------------------------------------|---------------------------------------|
| Administration | 8-15 | 4.7 |
| Extension | 16-19 | 9.8 |
| Communication | 7-13 | 3.8 |
| Education | 1-4 | 0.7 |
| Research | 18-30 | 7.4 |

*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)

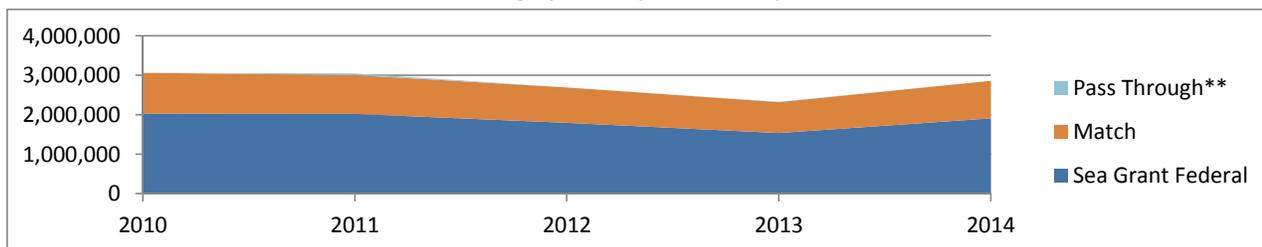


B. Total Funding by Source (2010-2014)

| | Sea Grant Federal | Match | Pass Through** | Total Funding |
|-------------|-------------------|-----------|----------------|---------------|
| 2010 | 2,035,619 | 1,032,757 | 0 | 3,068,376 |
| 2011 | 2,027,373 | 978,558 | 45,000 | 3,050,931 |
| 2012 | 1,796,425 | 893,493 | 0 | 2,689,918 |
| 2013 | 1,541,448 | 780,214 | 10,000 | 2,331,662 |
| 2014 | 1,911,247 | 951,885 | 0 | 2,863,132 |

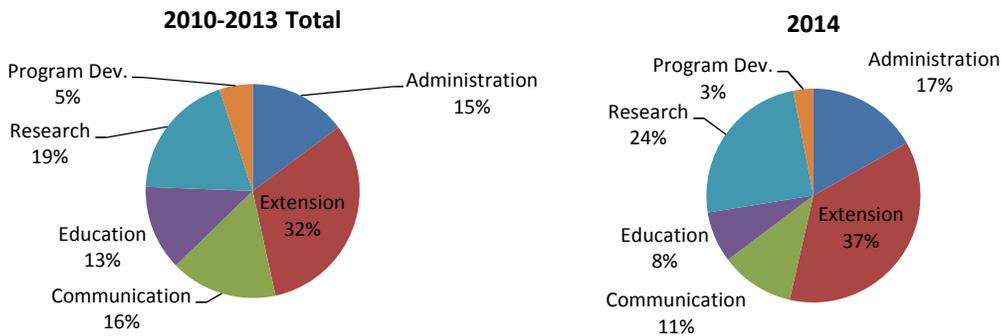
** Pass Through funding refers to federal funds not appropriated to Sea Grant, but administered through the National Sea Grant Office

Funding by Year (2010-2013)

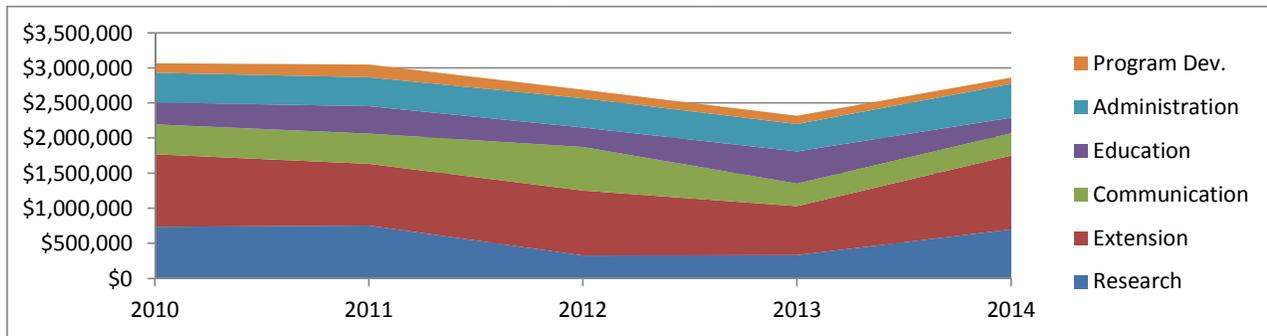


C. Distribution of Funding by Functional Area (Federal + Match + Pass Through)

| | 2010 | 2011 | 2012 | 2013 | 2014 |
|----------------|-----------|---------|---------|---------|-----------|
| Administration | 421,609 | 414,697 | 420,853 | 391,710 | 481,574 |
| Extension | 1,035,003 | 877,434 | 928,661 | 695,325 | 1,052,253 |
| Communication | 424,996 | 434,003 | 620,624 | 322,460 | 319,774 |
| Education | 313,299 | 387,189 | 273,284 | 456,112 | 221,271 |
| Research | 735,622 | 756,054 | 327,367 | 335,519 | 700,264 |
| Program Dev. | 137,847 | 181,554 | 119,129 | 120,536 | 87,996 |



Trend (2010-2014)



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

| | 2011 | 2013 |
|--|------|------|
| Pre-Proposals Submitted | 34 | 25 |
| Full Proposals Submitted | 14 | 11 |
| Proposals Funded | 4 | 8 |
| Institutions with Proposals Funded | 1 | 3 |
| Proposals Funded from Home Institution | 4 | 6 |

E. Core-Funded Research Projects

2014

Applying Regime Shift Indicators to Understand the Potential Impacts of a Multi-Year Cold Event on the Bering Sea Ecosystem (Michael Litzow)

Economic Viability of a Directed Skate Fishery in the Gulf of Alaska (Andrew Seitz)

Habitat Degradation Due to Melting Glaciers (Brenda Konar)

Industry-Based Documentation of the Effectiveness of F3 'Whale Pingers' at Reducing Humpback Whale Interactions with Alaska Salmon Fisheries (Kate Wynne)

Recovering Humpback Whales and the Future of Alaska's Hatcheries, Fisheries and Coastal Communities (Jan Straley)

Sustainability of Coastal Communities and Sea Otters: Harvest and Future Management of Sea Otters (Ginny Eckert)

Traineeships (Paula Cullenberg)

Future competed (Paula Cullenberg)

Graying of the Fleet in Alaska's Fisheries: Defining the Problem and Assessing Alternatives (Courtney Carothers)

Long-Term Records of Abundance and Effects of Large Scale Climate Change on Alaska Peninsula Sockeye Salmon (Nicole Misarti)

2012

Collaborative Research: Building Capacity for Community-based Marine Mammal Conservation in Bristol Bay (Chanda Meek)

Developing High-Resolution Strontium Isotope Maps of Alaska Rivers to Track Pacific Salmon Migrations: The Nushagak River as a Case Study to Evaluate Spatial and Seasonal Variability (Matthew Wooller)

Impacts of Sea Otter Recolonization on Marine Resources and Coastal Communities in Southern Southeast Alaska (Allison Rice)

Nutrition and Condition of Red King Crab Larvae: Enhancement of King Crabs to Improve Sustainability of Alaskan Coastal Communities (Ginny Eckert)

2010

Ecological, economic and social changes as a result of Sea Otter recolonization in southern Southeast, Alaska (Ginny Eckert)

Identifying Red and Blue King Crab Stocks for Sustainable Harvest and Sustainable Coastal Alaskan Communities (David Tallmon)

Increased Variance As a Leading Indicator of Reorganization in Alaskan Marine Ecosystems: An Empirical Test (Michael Litzow)

Low intensity, low cost management of salmon fisheries (M. D. ADKISON)

Parsimony in Integrated Age-Structured Assessment Models: Modeling of Time-dependent Parameters and Uncertainty in a Changing Environment (T. QUINN)

The seasonal and interannual patterns of larvaceans and pteropods in the Coastal Gulf of Alaska, and their relationship to Pink Salmon survival (RUSSELL HOPCROFT)

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

Outreach 2014-2017: Marine Advisory Program and Communications (Paula Cullenberg) (SG-Climate)
Future competed (Paula Cullenberg) (SG-Social Science)

2013

CESU-NOAA (Unreported PI) (NWS)

Sea Grant Aquaculture Extension 2013: Continued Growth of the Alaska Shellfish Farming Industry through Education, Workforce Development, and Extension Services (Raymond RaLonde) (SG-Aquaculture)

2012

Alaska Sea Grant Community Environmental Hazard Response Resources: Online Information and Training (Paula Cullenberg) (SG-Climate)

Bering Strait Maritime Symposium (Gay Sheffield) (SG-Regional)

Sea Grant Climate Adaptation 2011: Shaktoolik Alaska – Climate Change Adaptation for an at-risk Community (Terry Johnson) (SG-Climate)

Alaska Sea Grant Education Services (Unreported PI) (SG-Social Science)

Responding to Whale Entanglement: Advice and Updates for Alaskan Fishermen (Kate Wynne) (SG-Regional)

2011

Management of 2010 Aquaculture Research project R/34-01 (David Christie) (SG-PD)

Marine Mammal Training and Capacity Building in West Africa (Kate Wynne) (NMFS)

Implementing an Early Detection and Rapid Response (EDRR) Framework for Nonindigenous Marine Species in Alaska with Citizen Science (Gary Freitag) (SG-Invasives)

Sea Grant Aquaculture Research Program 2010: Expanding community based shellfish aquaculture opportunities in Alaska through technology transfer, education, and planning outreach to shellfish farmers and coastal communities (RAYMOND RALONDE) (SG-Aquaculture)

Sea Grant Aquaculture Research Program 2010: Red King Crab Aquaculture in Alaska – Release Strategies and Critical Ecosystem Interactions (Ginny Eckert) (SG-Aquaculture)

2010

ALASKA FISHERIES EXTENSION ENHANCEMENT : FISHERIES IN TRANSITION AND CAPACITY BUILDING FOR ENVIRONMENTAL MONITORS (BRIAN ALLEE) (SG-FISHERY-EXT)

Climate Change Adaptation for Alaska’s Marine Resource-Dependent Communities (TERRY JOHNSON) (SG-Climate)

Video: Adapting to Climate Change in Alaska (Paula Cullenberg) (SG-Regional)

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 |
|--------|-----------|
| 928 | 22,686 |

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

| |
|-----|
| 736 |
|-----|

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

| | Students | | Degrees Awarded |
|---------------------|----------|------------|-----------------|
| | New | Continuing | |
| Undergraduate | 1 | 1 | 0 |
| MS/MA | 10 | 19 | 15 |
| PhD | 7 | 8 | 6 |
| Professional Degree | 0 | 0 | 0 |

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

| |
|-------|
| 2,505 |
|-------|

III. Collaborative Network Activities (relationships and coordination).

A. Program Partners by Scale

FEDERAL or NATIONAL

Alaska Fisheries Science Center (US DOC, NOAA, NMFS)
Alaska Marine Mammal Stranding Network (US DOC, NOAA, NMFS)
American Seafoods Company
Aquaculture Program Office (US DOC, NOAA, NMFS)
Auke Bay Laboratory (US DOC, NOAA, NMFS)
Bureau of Indian Affairs (US DOI, BIA)
Centers for Ocean Sciences Education Excellence (COSEE)
Conoco Phillips Earth Energy Partners Program
Consortium for Ocean Leadership
Favco Seafood
Icicle Seafoods Inc.
Indian General Assistance Programs (US EPA, IGAP)
Integrated Marine Systems
Kachemak Bay National Estuarine Research Reserve (US DOC, NOAA, NOS, NERRS)
Kasitsna Bay Laboratory (US DOC, NOAA, UAF)
Maine Conservation Corps (AmeriCorps)
Minerals Management Service
National Institute for Occupational Safety and Health (US HHS, CDC, NIOSH)
National Institute of Water Resources
National Marine Fisheries Service (US DOC, NOAA, NMFS)
National Oceanic and Atmospheric Administration (US DOC, NOAA)
National Park Service (US DOI, NPS)
National Wildlife Health Center (US DOI, USGS)
Natural Resources Conservation Service (USDA, NRCS)
North Pacific Fisheries Management Council (NPFMC)
North Pacific Research Board
Northwest Fisheries Science Center (US DOC, NOAA, NMFS, NWFSC)
Ocean Beauty Seafoods Inc.
Office of Protected Resources (US DOC, NOAA, NMFS)
Office of Protected Species Alaska Region (US DOC, NOAA, NMFS)
Pew Environment Group
Santa Monica Seafoods
SeaFisk Consulting
Solutions That Endure
United Fishermen's Marketing Association
US Arctic Research Commission
US Army Corps of Engineers
US Bureau of Ocean Energy Management (US DOI, BOEM)
US Coast Guard (US DHS, USCG)
US Department of Agriculture (USDA)
US Environmental Protection Agency (US EPA)
US Fish and Wildlife Service (US DOI, FWS)
US Food and Drug Administration (US HHS, FDA)
US Forest Service (USDA, USFS)
US Geological Survey (US DOI, USGS)

Western Regional Aquaculture Center (USDA, NIFA, RAC)

INTERNATIONAL

Audubon Society

British Petroleum (BP)

Ecotrust

Institute of Marine Research, Norway

International Council for Exploration of the Seas (ICES)

International Pacific Halibut Commission

Marine Research Institute, Norway

New Zealand Institute for Crop & Food Research, Ltd. (NZICFR)

North Pacific Marine Science Organization (PICES)

Pacific Salmon Commission

Peter Pan Seafoods, Inc.

Princess Cruises

U.N. Food & Agriculture Organization (UNFAO)

University of British Columbia (Canada UBC)

University of the Aegean, Greece

University of Tromso

World Wildlife Fund for Nature

Zoological Institute, Russian Academy of Sciences, St. Petersburg, Russia

LOCAL

Aleut Corporation

Aleutian Pribilof Island Association

Aleutian Pribilof Island Community Development Association

Aleutian Spray Seafoods

Aleutians East Borough School District

Alutiiq Museum

Alutiiq Pride Shellfish Hatchery

Anchorage School District

Armstrong-Keta, Inc.

Blue Starr Oyster Co

Bristol Bay Economic Development Corporation

Bristol Bay Regional Seafood Development Association

Central Bering Sea Fishermen's Association

Chignik Lagoon Village Council

Chugach Corporation

City of Kodiak

City of Seward

City of Shaktoolik

City of Unalaska

City/Borough of Juneau, AK School District

Cook Inlet Regional Citizens Advisory Council

Copper River Seafoods

Copper River/Prince William Sound Marketing Association

Cordova District Fishermen United

Dan Hull, F/V Gretchen S

Don Cornelius

Dr. Quentin Fong

Fairbanks North Star Borough School District

Friends of Petersburg Libraries
Gastineau Guiding Service
Henry Mitchell, Fisheries Consultant
Kachemak Bay Gear Shed
Kachemak Shellfish Growers Cooperative
Kachemak Shellfish Mariculture Association
Kanektok River Adventures
Kawerak, Inc.
Kenai Peninsula Borough
Klawock Cooperative Association
Kodiak Filipino Women's Council
Kodiak Fish Company
Kodiak Island Borough
Kodiak Women's Resource and Crisis Center
Lofoten Fish Company
Lower Kuskokwim School District
Marian Center, Kodiak
Matanuska-Susitna Borough School District
Museum of the Aleutians
Native Council of Port Heiden
Native Village of Shaktoolik
Ninilchik Natives Association
Norseman Maritime Charters
North Slope Borough
Norton Sound Economic Development Corporation
Norton Sound Health Corporation
OceansAlaska
Organized Village of Kake
Ounalashka Corporation
Pearl of Alaska Shellfish Farm, Kake, Alaska
Petersburg Marine Mammal Center
Petersburg Public Library
Petersburg Vessel Owners Association
Port Graham Village Council
Pratt Museum
Pribilof Islands, Communities of St. Paul and St. George
Prince William Sound Aquaculture Corporation
Prince William Sound Regional Seafood Development Association
Prince William Sound Science Center
Qayassiq Walrus Commission
Quinhagak Village Corporation
Rasmuson Foundation
Shaktoolik Native Cooperation
Stan Stephens Glacier and Wildlife Cruises
Tenass Pass Oyster Farm, Prince of Wales Island, Alaska
The Imaginarium Science Discovery Center
Togiak Traditional Council
Unalaska City School District
University of Alaska Fairbanks Northwest Campus

Village of Gambell
Village of New Stuyahok
Village of Ouzinkie
Village of Port Graham
Village of Savoonga

REGIONAL

Alaska Bering Sea Crabbers
Alaska GulfWatch Program
Arctic Yukon Kuskokwim Sustainable
Bristol Bay Marine Mammal Council
Center for Alaskan Coastal Studies
Chugach Heritage Foundation
Elijah Donat, Chilkat Environmental, Haines, Alaska
Farallon Institute Advanced Ecosystem Research
Gulf of Alaska Coastal Communities Coalition
Kruzof Fisheries LLC
Northern Southeast Regional Aquaculture Association
Pacific Seafood Processors Association
Pacific Star Seafoods
Pacific States Marine Fisheries Commission (PSMFC)
Pollock Conservation Cooperative
Sitka Sound Science Center
Southeast Alaska Regional Dive Fisheries Association
University of Washington, Joint Institute for the Study of the Atmosphere and Ocean (JISA0), College of the Environment (UW)
Webber Marine & Manufacturing, Inc.
Whiskey Creek Shellfish Hatchery

STATE

Alaska Association of Harbormasters and Port Administrators
Alaska Board of Fisheries
Alaska Board of Game
Alaska Charter Association
Alaska Commercial Fishing and Agriculture Bank
Alaska Cooperative Extension Service
Alaska Council of Teachers of Math
Alaska Crab Coalition
Alaska Department of Commerce, Community and Economic Development (AK DOC)
Alaska Department of Education and Early Development (AK ED)
Alaska Department of Environmental Conservation (AK DEC)
Alaska Department of Fish and Game (AK DFG)
Alaska Department of Law
Alaska Department of Natural Resources (AK DNR)
Alaska Department of Natural Resources Division of Oil and Gas (AK DNR DOG)
Alaska Department of Transportation (AK DOT)
Alaska Energy Authority
Alaska Federation of Natives
Alaska Fisheries Development Foundation
Alaska Forum, Inc.
Alaska Groundfish Forum
Alaska Marine Conservation Council

Alaska Miners Association
Alaska Ocean Observing System (AOOS)
Alaska Office of Boating Safety
Alaska Pacific Seafoods
Alaska Science Teachers Association
Alaska Sea Farms
Alaska Seafood Marketing Institute
Alaska SeaLife Center
Alaska Shellfish Growers Association
Alaska Small Business Development Center
Alaska State Legislature
Alaska Troller's Association
Alaska Vocational Technical Education Center
Alaska Whitefish Trawlers Association
Alaskan Leader Fisheries
Arliss Sturgulewski, former state senator
Baywater Shellfish Farms
Bering Sea Fisheries Research Foundation
Bristol Bay Borough
Chinook Insurance Group, LLC
Chugach Regional Resources Commission
CoBank
Duke University
East Carolina University (ECU)
Eskimo Walrus Commission
F/V AK8739L
F/V Cloud 9
F/V Grammy
F/V Harmony Isle
F/V K2
F/V Kamilar
F/V Lucille D
F/V Right Whale
F/V Sea Hawk
F/V Valerie Anne
Fisheries Division, School of Fisheries and Ocean Science, University of Alaska Fairbanks
Fisheries Division, School of Fisheries and Ocean Science, University of Alaska Fairbanks (UAF)
Florida International University (FIU)
Future Farmers of America, Alaska Chapter
Glenn Gray and Associates
Harvey Fishing LLC
Hatfield Marine Science Center (OSU)
Hawaii Sea Grant
Marine Advisory Program, School of Fisheries and Ocean Sciences, University of Alaska Fairbanks (UAF)
Marine Conservation Alliance
Mississippi-Alabama Sea Grant Consortium
Molluscan Broodstock Program
Morshovi Bay Fish Company
Nanuuq Commission

Northrim Bank
Nuka Research and Planning Group, LLC
Pacific Coast Joint Venture (PACJV)
Penosbscot East Resource Center
Portland State University
Pristine Products Oyster Farm
Resource Development Council for Alaska, Inc.
Rhode Island Sea Grant
Samani Fisheries LLC
San Francisco State University, Romberg Tiburon Center (SFSU)
School of Fisheries and Ocean Sciences, University of Alaska Fairbanks (UAF)
Sealaska Corporation
Seims Sea Farms
Senator Joe Thomas, Alaska Legislature
Sydney and Dorothy Wynne Memorial Fund
Trouble Inc.
United Fishermen of Alaska
University of Alaska Anchorage (UAA)
University of Alaska Anchorage, Institute of Social and Economic Research (UAA)
University of Alaska Anchorage, Kodiak College (UAA)
University of Alaska Fairbanks (UAF)
University of Alaska Fairbanks Seward Marine Center
University of Alaska Fairbanks Summer Sessions (UAF)
University of Alaska Fairbanks, Bristol Bay Campus (UAF)
University of Alaska Fairbanks, Department of Anthropology (UAF)
University of Alaska Fairbanks, Kodiak Seafood and Marine Science Center
University of Alaska Fairbanks, Kuskokwin Campus (UAF)
University of Alaska Foundation and Office of Academic Affairs/
University of Alaska Press
University of Alaska Southeast (UAS)
University of Alaska Southeast, Research Experiences for Undergraduate Students
University of California, Davis (UCD)
University of California, Santa Cruz (UCSC)
University Of Utah
Virginia Institute of Marine Science (VIMS)
Alaska Center for Climate Assessment and Policy (ACCAP)
North Slope Science Initiative
University of Alaska Fairbanks, Alaska Center for Climate Assessment and Policy (UAF)
Scripps Institution of Oceanography

Tribal

Alaska Native Tribal Health Consortium
Hydaburg Cooperative Association
Kake Tribal
Nelson Lagoon Tribal Council

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

| Amounts | Year | | | |
|--|--------------------|------------------|--------------------|--------------------|
| Source | 2010 | 2011 | 2012 | 2013 |
| Managed | \$2,204,349 | \$189,579 | \$1,534,871 | \$1,012,592 |
| Alaska Center for Climate Assessment and Policy (ACCAP) | \$134,902 | | | |
| Alaska Department of Commerce, Community and Economic Development (AK DOC) | | | \$81,189 | |
| Alaska Department of Fish and Game (AK DFG) | | | \$35,460 | \$24,000 |
| Alaska Energy Authority | \$161,288 | | | |
| Alaska Fisheries Development Foundation | | | | \$42,250 |
| Alaska Groundfish Forum | | \$5,000 | | \$500 |
| Alaska Marine Conservation Council | | | | \$32,535 |
| Alaska Troller's Association | | | | \$250 |
| Alaska Vocational Technical Education Center | | | | \$44,000 |
| Aleut Corporation | \$1,000 | | | |
| Aleutian Pribilof Island Community Development Association | | \$5,000 | | |
| Bristol Bay Regional Seafood Development Association | | | | \$1,500 |
| Central Bering Sea Fishermen's Association | | \$5,000 | | \$10,000 |
| Cook Inlet Regional Citizens Advisory Council | \$7,000 | | | |
| Copper River/Prince William Sound Marketing Association | | | | \$500 |
| Icicle Seafoods Inc. | | | | \$50,000 |
| International Pacific Halibut Commission | \$2,000 | | | \$1,000 |
| Kawerak, Inc. | | \$18,929 | | |
| Marine Conservation Alliance | \$2,500 | | | |
| National Marine Fisheries Service (US DOC, NOAA, NMFS) | \$639,077 | \$14,839 | \$338,885 | \$325,840 |
| National Science Foundation (NSF) | | | \$467,739 | |
| National Sea Grant Law Center | \$24,956 | | | |
| Norseman Maritime Charters | \$2,000 | | | |
| North Pacific Fisheries Management Council (NPFMC) | | | | \$20,000 |
| North Pacific Research Board | \$936,890 | | \$366,383 | \$277,424 |
| North Slope Borough | | | \$86,653 | |
| Office of Protected Species Alaska Region (US DOC, NOAA, NMFS) | \$98,635 | | | |
| Pacific Star Seafoods | | | | \$500 |
| Pollock Conservation Cooperative | | | \$61,019 | \$101,793 |
| Princess Cruises | \$75,259 | | | \$25,000 |
| Santa Monica Seafoods | | | | \$5,000 |
| U.N. Food & Agriculture Organization (UNFAO) | \$5,000 | | | |
| United Fishermen of Alaska | | | | \$1,000 |
| University of Alaska Fairbanks (UAF) | | | | \$2,500 |
| US Bureau of Ocean Energy Management (US DOI, BOEM) | | | | \$12,000 |
| US Department of Agriculture (USDA) | \$113,842 | | \$64,577 | |

| | | | | |
|--|--|----------|----------|--------------------|
| US Fish and Wildlife Service (US DOI, FWS) | | | | \$2,500 |
| Unreported Source | | \$5,000 | | |
| Bering Sea Fisheries Research Foundation | | \$10,000 | | |
| Howe Corporation | | \$99,431 | | |
| Marine Mammal Commission | | \$26,380 | | |
| Pacific Salmon Commission | | | \$32,966 | |
| CoBank | | | | \$25,000 |
| Northrim Bank | | | | \$2,500 |
| US Arctic Resarch Commission | | | | \$5,000 |
| Influenced | | | | \$1,030,000 |
| Alaska Department of Commerce, Community and Economic Development (AK DOC) | | | | \$300,000 |
| Exxon Valdez Trustee Council | | | | \$335,000 |
| Unreported Source | | | | \$11,000 |
| Ketchikan Gateway Borough | | | | \$384,000 |