

Oregon Sea Grant Program 2011 NSGO Review

Program Officer - Heather A. Triezenberg



Program Leadership

- Management Staff:
 - Director, Stephen Brandt
 - Assistant Director and Communications Leader, Joseph Cone
 - Extension Program Leader, David Hansen
 - Education Director, Nancee Hunter
 - Administrative Officer, Peggy Harris
 - Fiscal Officer, Evelyn Paret

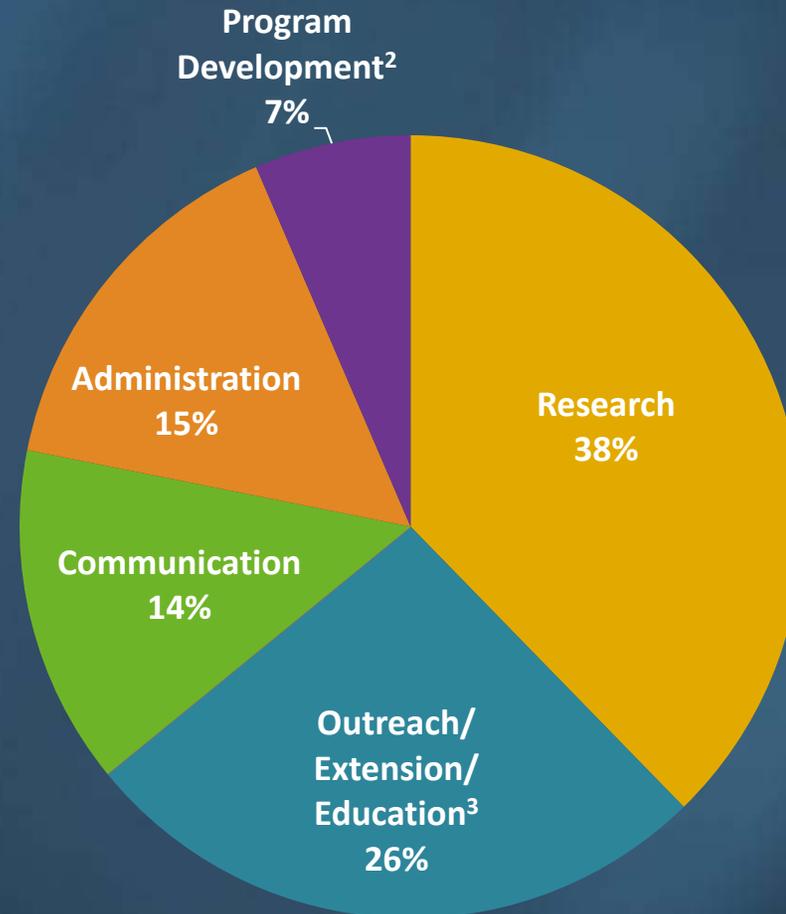
Functional Area	# of individuals	# of FTEs supported by SG	# of FTEs supported by match/leverage
Administration	6	2.27	3.74
Communication	6	2.39	2.75
Extension	26	7.63	14.88
Education	28	1.40	5.42
Research	27	7.04	0.75

- Large Program



Program Budget towards each Functional Area

Omnibus Budget Proposal¹



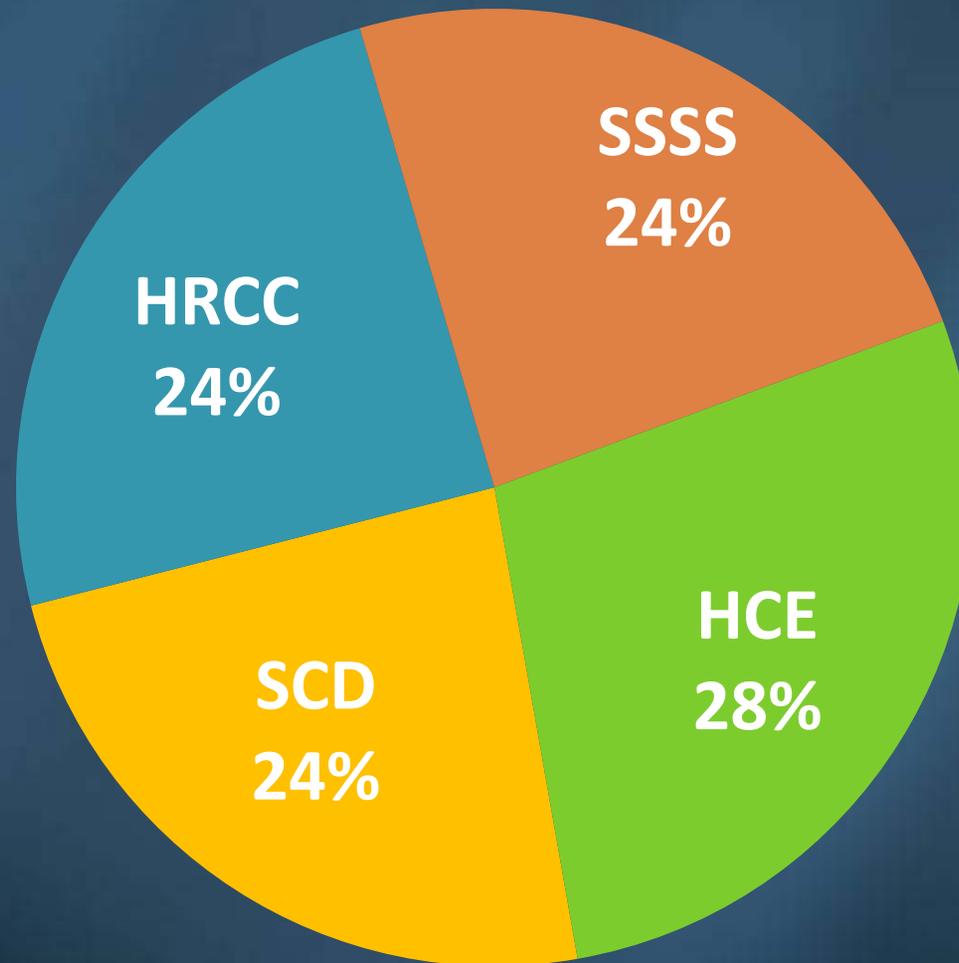
¹Core, merit, and bonus Sea Grant funds and match.

²OR SG indicates these funds are invested in competitive projects.

³OR SG budget narrative in omnibus proposal includes education with outreach/extension.



Program Budget towards each Focus Area



Significant Program Changes (since Jan. 2010)

- New Extension Program Leader, David Hansen, started 10/4/10
- New Vice President for Research (Spinrad) 07/01/10
- 4 New Advisory Council Members
- Initiated Private Fund-Raising Campaign
- New Partnership leading Annual Coastal Conference
- Director appointed Chair of Oregon State University Marine Council (\$100M)
- New ORSG Scholars Program
- Director Elected Chair of Legislative Nearshore Task Force
- New West Coast Regional Initiatives
 - Fellows for West Coast Governors Agreement
 - Regional Invasive Species Program
 - Regional Social Science RFP



Program Requested Changes to 2010-2013 Program Plan

- The West coast region-wide approach (4 SG programs) that will use an innovative modeling tool to predict AIS establishment, risk, and evaluate management alternatives.
 - Increase understanding of AIS threats, eradication and control strategies
 - Reduce school pathways as AIS source
- The additional capacity in aquaculture will address unmet of the aquaculture industry in Oregon and in the region facing technical, economic and biological challenges.
 - Reduce water quality impacts of aquaculture
 - Improve shellfish resistance to upwelled corrosive waters
 - Train growers to respond to aquatic invasive species in aquaculture

State Program Performance Measures

Focus area	Performance measure	Target
HCE	Percentage of Oregon coastal communities that utilize OSG watershed health and water resource planning tools. (35%, 12 of 36)	12 coastal communities
SCD	Increase number of economists and social scientists involved in state spatial planning processes advisors and employees. (400% from 0 to 4)	4 new economist/ social scientist
SSSS	Number of new distribution points for Oregon fish. (12)	12 new distribution points
HRCC	Percentage of coastal residents that know what to do in case of an earthquake and/or tsunami. (10%, 2,250 of 225,000) HAZ	2250 prepared coastal residents

Contribution to National Performance Measures and Metrics

- Leveraged funds \$2,361,262
- 68 students supported
- 11,624 volunteer-hours
- 22,057 K-12 students reached through educators
- 95 sponsored/organized meetings, workshops, and conferences and 321 presentations reach a total of 167,668 people
- 22,410 degraded acres restored
- Over 150,000 visitors to the HMSC Visitors Center
- 44 jobs created; 228 jobs retained



Program Impacts: Healthy coastal ecosystems

Removal of lost gear from ocean floor

- In 2006, pilot project sampled 1,200 acres of seafloor; recovered 61 crab pots, plus misc. net and line debris
- Collaboration with OR Dept. Fish and Wildlife and OR Fishing Industry Partnership and securing \$700k in new funds
- In 2009, >67 metric tons of crab gear and other marine debris removed from ocean

PERFORMANCE MEASURES: Number of coastal communities that have restored degraded ecosystems as a result of SG activities.



Program Impacts: Healthy coastal ecosystems

Invasive species media campaign reduces spread of invasives

- Formative research for media campaign development
 - *Statewide survey: 72% did not believe their individual actions would help stop invasions and were looking for practical guidance*
- Collaborated on *The Silent Invasion* (Oregon Public Broadcasting) – being adapted as national documentary
- ORSG publications, including AIS field guide
- Summit for stakeholders, including decision-makers
- 11 new AIS laws enacted – 24 million watershed acres now under AIS management

PERFORMANCE MEASURES: (1) Managers, policy makers, residents understand causes and consequences of degraded ecosystems; (2) State legislation enacted



Program Impacts: Hazard resilient coastal communities

- Coastal communities prepare for predicted earthquake and tsunami event reducing potential loss of life
 - Funded research evaluates impacts on existing structures and evacuation
 - Coastal hazards specialist engaging community decision-makers, specifically Manzanita
 - Renewed collaboration with local public safety officials and Oregon State Parks to update plans
 - Emergency volunteer corps formed
 - Mapped neighborhoods, trained in first aid and CPR, and certified HAM radio operators

PERFORMANCE MEASURES: Number of coastal communities that have adopted or implemented hazard-resiliency practices to prepare for and respond to/minimize coastal hazardous events



Program Impacts: Sustainable coastal development

- First Pacific Coast wave energy test buoy



- Funded research captured world headlines and created modern Gold Rush for potential wave energy which led to funding a New Center
- Community engagement to identify possible pilot test sites and discuss concerns

Unified acceptance and identification of test site for two buoys

Produced DVD: Wave Power: The potential of Oregon's Ocean Energy

State performance measures: Multiple Uses and Spatial Planning(MUSP)

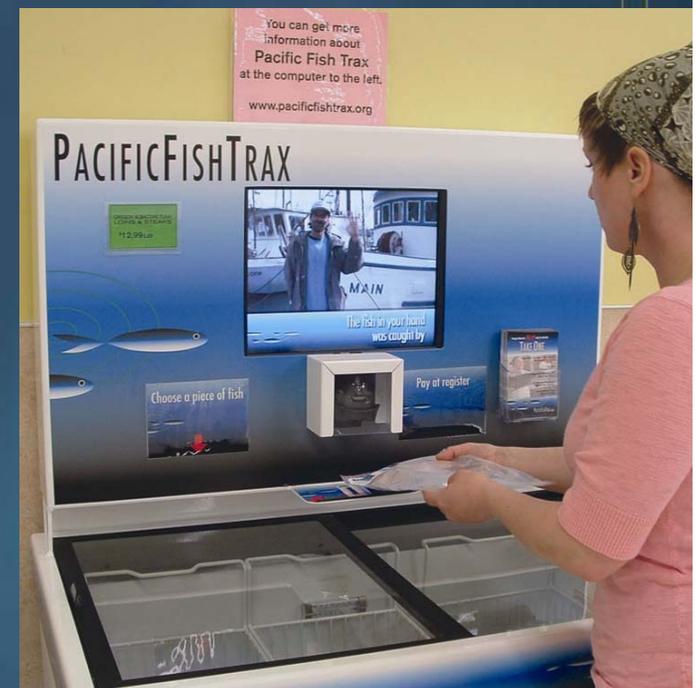


Program Impacts: Safe and sustainable seafood supply

● Cooperative research on Oregon ocean salmon

- Citizen science: Real-time data collection and genetic science research
- Learn about offshore schooling behavior and stock composition of salmon
- Possible to determine origins of ocean-caught fish within 24-48 hours
- Pacific FishTrax: Shoppers can scan fish and access information about fish, fishermen, and processors who handled the fish

● State performance measure: (1) Percentage of fishermen in fleet trained in at sea genetic stock identification techniques (50%, 50 of 100); and (2) Number of new marketing tools tested.



2009 Research Accomplishments

New protocols reduce shipping/post shipping deaths by 40% in Marine ornamental fish trade

- Multi-million dollar, international fish trade market
- Research (histological, microbial, physiological) funded on causes of death and damage to fishes during shipping.
- Suppliers and retailers adopt new best management practices that saved money and reduced environmental impact
- Similar protocols now in place for freshwater ornamental trade.

Cuts Salmon Mortality from myxosporean parasites

- Developed a water-filtration assay to determine parasite densities
- Leveraged \$3.7M; multi-stakeholder monitoring effort
- Informed DOI Secretary's decision on Klamath River dam removal



Program Site Visit

Lessons Learned

- Team had a last-minute change in membership. New person was unfamiliar with Sea Grant, but provided excellent contributions to the site review