

# Connecticut Sea Grant Program 2012 NSGO Review

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# CTSG Management

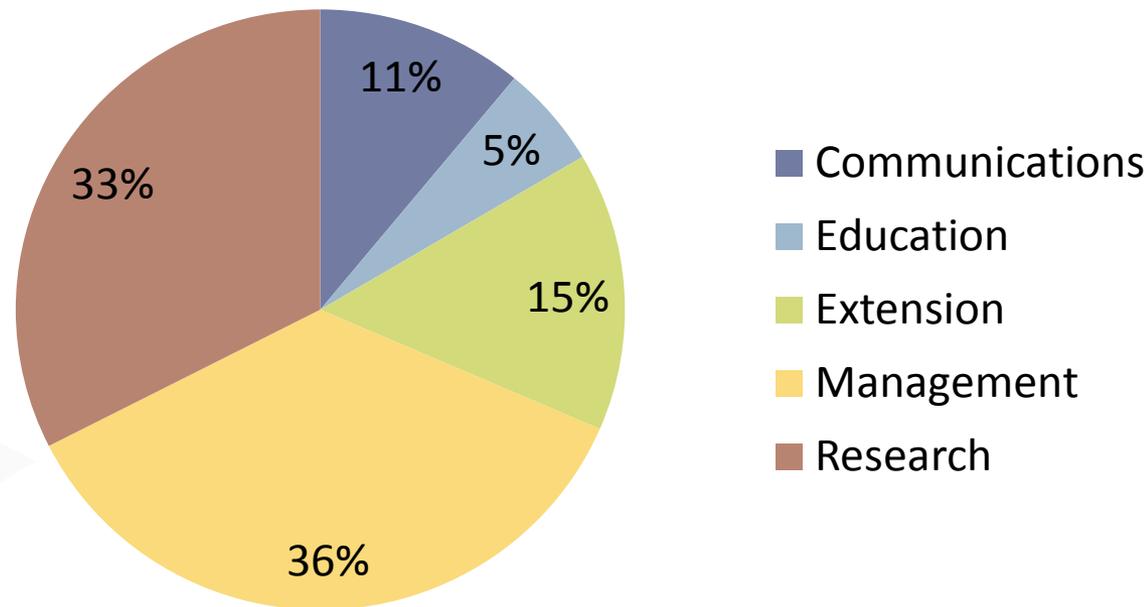
- Management staff (Name, position, FTE)
  - Director, Sylvain De Guise (.85 FTE)
  - Associate Director & Extension Leader, Nancy Balcom (.5 FTE/.5FTE)
  - Communicator, Margaret Van Patten (1.0 FTE)
- Program Size: Small

# CTSG Management

Functional Area	# of individuals	# of FTEs supported by SG	# of FTEs supported by match/leverage
Mgt/Admin	5	1.53	1.95
Comm.	1	1	0
Ext.	12	3.85	1.63
Education	1	.56	.19
Research	18	4.8	.44

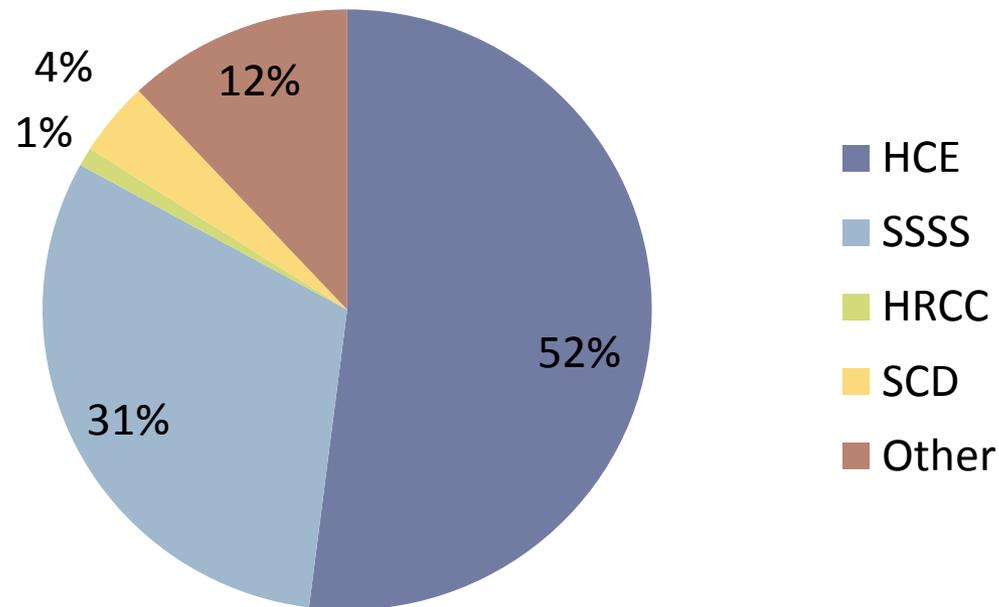
# CTSG 2010 Core Budget (Federal + Match) towards each Functional Area

## Effort by Functional Area



# CTSG 2010 Budget towards each Focus Area (Fed + Match + Pass-Through + Managed Leveraged Funds)

## Effort by Focus Area



Other = Marine and Aquatic Literacy

# Significant CTSG Changes (since Jan. 2011)

- Hiring of Anoushka Concepcion, Aquaculture extension

# CTSG Program RFP Process

- Call requested for:
  - (1) marine aquaculture; and
  - (2) Use and conservation of marine resources, ecosystems and habitats
- CTSG funded projects typically range from \$25,000 to \$65,000 per year
- Process:
  - Lead Technical Review Panel member introduces and discusses the project and his or her thoughts
  - Everyone shares their thoughts on the proposal by going around the room.
  - Each Technical Review Panel Members scores the proposal
  - Selection follows panel rankings

# CTSG RFP Process for 2012-2013 Projects – Research Metrics

<b>Core Proposals</b>	<b># of Proposals</b>	<b># of institutions</b>	<b># from home institutions</b>
Pre-proposals submitted	18	12	13
Full proposals submitted	10	6	8
Proposals Funded	5	4	4

# CTSG Contribution to National Performance Measures and Metrics

Focus Area	Metric	Actual
ALL	Volunteer Hours	1168
Literacy	Total K-12 Students Reached through Educators	5407
SSSS	New HACCP Certifications	95
ALL	Economic Measure: 1-acre restored dune helps protect a coastal wetland area estimated to prevent \$114,000 in storm damage costs annually	\$114,000

# CTSG Impacts

- Nearly the entire USA are in the broadcast area for the AquaKids popular television show, which has won both Parents and Environmental Education awards.
- **Focus Area:** Marine and Aquatic Literacy
- **Goal:** To foster a better world through ecological and environmental knowledge and stewardship



# CTSG Impacts

- **Connecticut Sea Grant research on kelp culture techniques resulted in tangible economic benefit to the sustainable food industry in New England.**
  - **Recap:** Ocean Approved, a sea vegetable company established in 2009, is the first U.S. company to receive permission to cultivate edible kelp.
  - The company now grows and harvests kelp for products such as kelp noodles and kelp pickles, available through Whole Foods and a dozen other food retailers in New England, New York and California.
- Focus Area: Marine Aquaculture
- Goal: To contribute to the expansion of environmentally- and economically-sustainable marine aquaculture industries in Connecticut and the Northeast.



# CTSG Impacts

- A new rain garden installed by Connecticut Sea Grant and its partners filters up to 37,000 gallons of stormwater annually.
- Focus Area: Coastal Land Use and Community Planning
- Goal: To support management efforts to conserve and protect ecosystems and habitats for the sustainable use of living resources in Long Island Sound's watershed, Connecticut and the Northeast United States.



# CTSG Impacts

- **Sea Grant and Land Grant extension professionals share science-based information on the safety of aquaculture products with federal advisory committee, leading to their inclusion in the 2010 U.S. Dietary Guidelines.**
- Focus Area: Aquaculture
- Goal: To contribute to the expansion of environmentally- and economically-sustainable marine aquaculture industries in Connecticut and the Northeast.

# CTSG Impacts

- **Connecticut Sea Grant contributes to local livelihoods, production and markets in Cambodia and Vietnam through aquaculture development and management of small scale fisheries in lower Mekong River system.**
  - CT Sea Grant staff working with partners are implementing a USAID-funded project with the vision for sustainable freshwater snakehead aquaculture development and the management of small size fisheries resources in the lower Mekong River system.
  - To date the project has developed and disseminated a pelleted snakehead feed, made recommendations for improved management strategies for small size fish in the Lower Mekong river, developed best processing practices for fermented fish paste, and identified five new domestic and six international markets for small size fish and snakehead.
- Focus Area: Use and Conservation of Marine Resources
- Goal: To support management efforts to conserve and protect ecosystems and habitats for the sustainable use of living resources in Long Island Sound's watershed, Connecticut and the Northeast United States.

# 2010 CT SG Research Accomplishments

- **CTSG research improves management decisions for Connecticut river herring populations.**
  - Over the past 20 years, documented declines in alewife and blueback herring populations have led Connecticut and other states to close river herring fisheries.
  - CTSG researchers determined that early migrants were relatively large at age 1, and were large for their age upon maturity. They concluded that juveniles that leave in June do better as adults and contribute more to future adult herring runs.
  - Anadromous fish managers with the Connecticut Department of Environmental Protection now factor this information into management and regulatory decisions related to river herring.
  - By reducing bottlenecks to the upstream migration of adults, pre-spawned adults can enter the ponds faster, facilitating both earlier spawning and a head start on juvenile herring growth.
  - Management of water levels in spawning sites and connecting streams in late spring / early summer enables the juveniles to leave the spawning areas sooner, with the expectation that the overall herring run will benefit over time.

# 2010 CT SG Research Accomplishments

- **Connecticut Sea Grant researcher develops technique using caffeine as tracer of nonpoint pollution from sewage source.**
  - CT Sea Grant researchers are working on developing a tracer method to apportion stream / river contaminant loading to specific Non-Point Source pollution have determined that sources of the more abundant ions measured were either not sufficiently unique or too temporally variable
  - They have developed and perfected a technique to extract, concentrate and quantify caffeine at the part-per-trillion level or less, Caffeine is an especially useful tracer because it can only come from sewage sources (e.g., below ground treatment or leaking sewer lines).
  - Measurements of caffeine in their samples from two Long Island Sound watersheds indicate that caffeine is common at very low levels but can be much higher at some sites, implying that sewage contamination across the landscape is common, and may be a significant problem in some areas.

# Sources

- 2010 Annual Report PIER data
- SRT Report and Program Response
- 2012-14 Omnibus Proposal
- Discussions with CTSG Program