

# Louisiana Sea Grant College Program 2011 NSGO Review

Gene W. Kim, Federal Program Officer



# Program Management

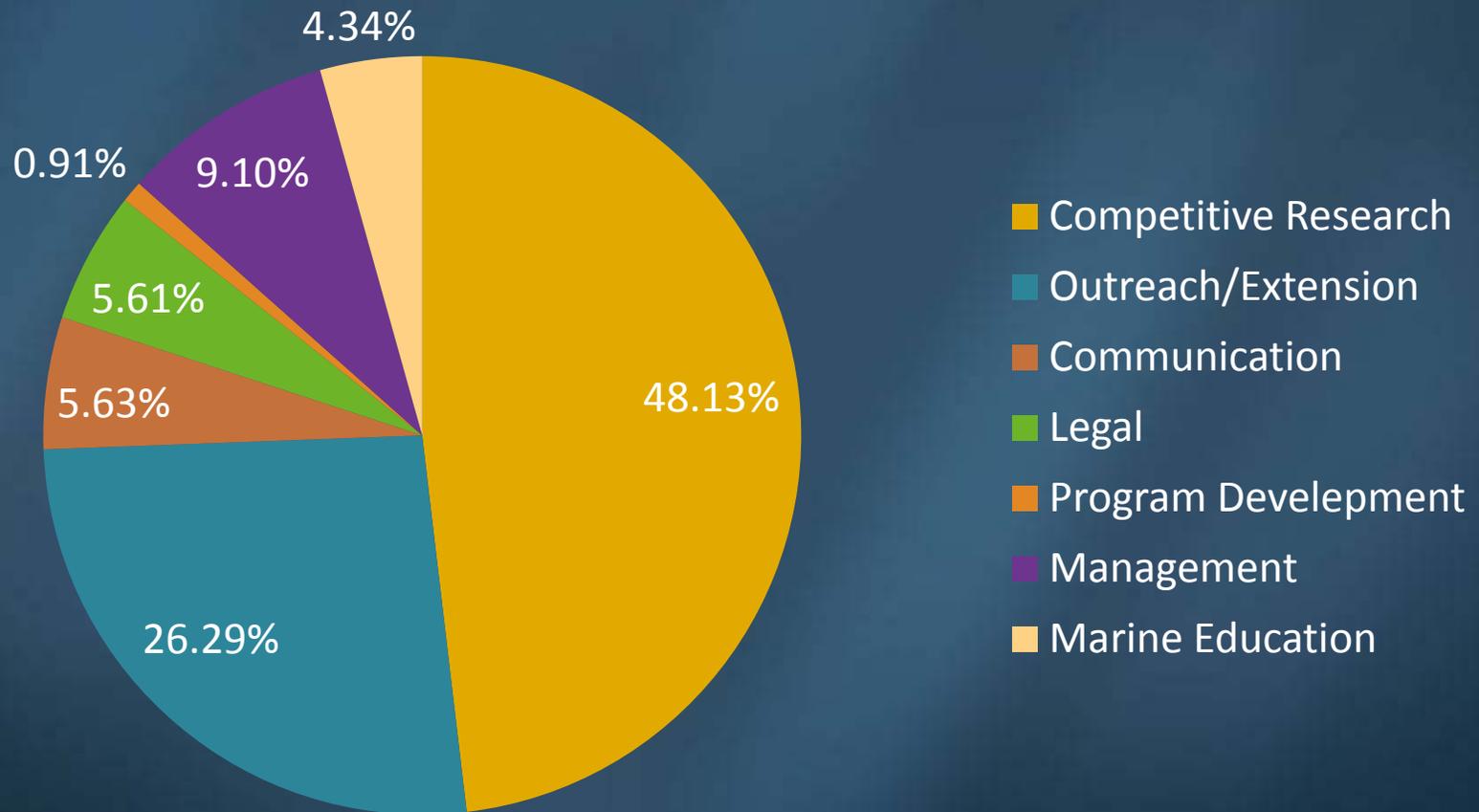
- ❑ Executive Director, Charles Wilson (1.0 FTE)
- ❑ Associate Director, David Nieland (1.0 FTE)
- ❑ Business Manager, Kelly Robertson (1.0 FTE)
- ❑ Assistant to the Executive Director, Katie Lea, (1.0 FTE)
- ❑ Marine Extension Director, vacant (1.0 FTE)
- ❑ Outreach/Communications Director, Roy Kron (1.0 FTE)
- ❑ Marine Education Coordinator, Dianne Lindstedt (1.0 FTE)
- ❑ Legal Program Director, Jim Wilkins (1.0 FTE)
- ❑ Size of Program – Medium

Functional Area	# of individuals	# of FTEs supported by SG	# of FTEs supported by match/leverage
Mgt/Admin	11	1.84	8.76
Comm.	6	0.48	5.52
Ext.	15	4.09	4.09
Education	1	0	1
Research	54	11.31	1.84



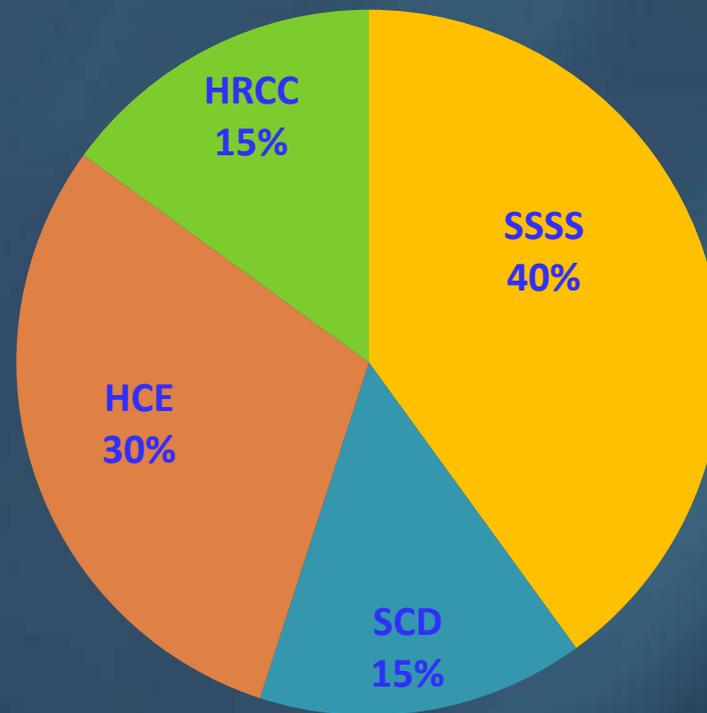
# Program Budget Disbursals by Functional Area

FY 10/11 Federal + Match



# Research Budget Disbursals by Focus Area

Program Budget by Focus Area (2010-13)



# Significant Program Changes (Since Jan. 2010)

- ✓ Vacancy - Director of Maine Extension
- ✓ Vacancy - St Bernard Parish Marine Agent
- ✓ New Associate Director
- ✓ 7.5% Reduction in State Funding 2010  
(17% Since 2006)
- ✓ Deep Water Horizon Oil Spill



# Program Requested Changes to 2010-2013 Program Plan

- DWH – LSG has the capacity to respond to technological disasters that threaten coastal ecosystems, valuable fishery resources, and the native flora and fauna that support them.

By January 2011, LSG had:

- 1) Conducted two workshops to train 90 persons in 'peer listening'
- 2) Produced six oil spill fact sheets in both English and Vietnamese
- 3) Funded 11 rapid response oil spill research projects
- 4) Collaborated in the production of a regional oil spill website
- 5) Trained three personnel in sensory detection of oil taint in seafood
- 6) Embedded one person in the oil spill Joint Incident Command
- 7) Produced and posted oil spill related economic FAQs on website
- 8) Produced one seafood safety video and posted same on LSG website
- 9) Produced and posted informational NRDA webpages



# Program Requested Changes to 2010-2013 Program Plan - continued

- Oyster research and outreach – A viable domestic oyster farming industry with acceptable environmental impacts is developed and supported

By 2013, LSG will:

- 1) Develop an off-bottom oyster production array to demonstrate both the function and the profitability of the methodology, and train oystermen in the use of the technique
- 2) Recommend those oyster brood stocks (selected or wild) for use in hatchery production of seed oysters, assess their grow-out at low, intermediate, or high salinity sites, and determine which of the three culture systems produces maximum numbers of marketable oysters



# State Program Performance Measures

- SSSS: Economic (market and non-market) and societal benefits (jobs created and retained) derived from the discovery and/or application of new fishery production and management models or techniques that lead to increased sustainability and productivity from the fishery. (Target = \$2,000,000/yr.)
- HRCC: Number of Louisiana coastal communities and citizens who adopt/implement hazard resiliency practices to prepare for and respond to/minimize coastal hazardous events. (Target = 15)
- HCE: Number of acres of degraded wetlands restored in Louisiana as a result of Sea Grant activities. (Target = 200)
- SCD: Number of coastal communities in Louisiana that have adopted/implement sustainable - economic and environmental - development practices and policies (e.g., land-use planning, working waterfronts, energy efficiency, climate change planning, smart growth measures, green infrastructure) as a result of Sea Grant activities. (Target = 2 coastal communities)



# Contribution to National Performance Measures & Metrics

- ✓ 74 people HAACP trained; 15 trained in sanitation control.
- ✓ Oyster production in Calcasieu Parish went from 17,000 sacks in 2004 to 65,000 sacks in 2010 (and the price tripled).
- ✓ LSG researcher developed and field tested two new wetland plant types for areal seeding; will be commercially available this year. LSG researchers developed three wetland plant mgmt practices that have improved EBM.
- ✓ Seven coastal communities (three Parishes) redesigned storm surge and flooding disaster response after LSG's storm surge outreach. One coastal community (Delcambre) implemented sustainable development practices.
- ✓ LSG post-hurricane modeling of economic impacts led to the appropriation of \$70 million for the Louisiana fishing industry in disaster relief, much of which is just being distributed now.
- ✓ One oyster farmer and four baitfish farmers are using LSG developed technology in their businesses.



# Program Impacts

## ➤ SSSS & SCD: Delcambre Direct Seafood Marketing

- Delcambre Direct launched with 12 shrimpers (online farmer's market, like MarketMaker)
- Thomas Hymel (LSG Extension) estimates that shrimpers earned additional \$600,000 in 2010
- Testimonial: Cheryl G. (wife of Captain Big Al) sold over 3,000 lbs. of shrimp (~16/20 and 21/25 count at \$2.75 per lb.) over a weekend at home. Strong demand may increase prices.
- Hymel approached both by LDWF about taking the program coast-wide, and the GSMFC about taking the program Gulf-wide.
- Supports LSG Strategy: Develop new processing technologies, value-added products, innovative waste management practices, and byproduct uses that maximize the quality, safety, and utilization of Louisiana's seafood products.

## ➤ SSSS: Sea Grant Research Expands Marine Baitfish Industry

- LSG research on alternative bait species and production techniques.
- Live marine baitfish are in high demand and are immune to imported product, thus Important to local communities as a source of immediate income that supports the larger recreational fishing industry.
- In addition to academic conferences, research findings on breakthroughs in land-based reproduction of baitfish were presented to 70 interested coastal citizens at two workshops.
- Supports LSG Strategy: Support socioeconomic analyses of coastal communities that identify and communicate employment alternatives, e.g., transitioning to new local employment or applying traditional skill and knowledge to the aquaculture of finfish and shellfish



# Program Impacts

- **HCE: Reef Balls Create Living Habitat in Lake Pontchartrain**
  - LSG partnered with the Lake Pontchartrain Basin Foundation, LSU AgCenter, and the Coalition to Restore Coastal Louisiana to install 600 “reef balls”
  - “Reef balls” on soft lake bottom enhance fish habitat
    - Hard structure → benthic invertebrate production → increased recreational fishing opportunities.
  - In 2009, four new reef ball sites were developed in Lake Pontchartrain.
  - Supports LSG Strategy: Restore damaged and lost wetlands to the functional equivalent of natural ecosystems based on realistic ecological metrics, hydrologic requirements, and design criteria.
  
- **HCE: Sea Grant Efforts Improve Louisiana's Rivers and Streams**
  - >70% of Louisiana’s waterways are on EPA’s 303d list as impaired and not suitable for fishing or swimming– from non-point source pollution from farms, sewage systems, lawns, and construction sites.
  - LSG extension developed programs like the Master Farmer Program to encourage site-specific, cost-effective BMPS to mitigate runoff.
  - Over 115 farmers received certification; contributed to de-listing of the Tangipahoa River; two more river segments to be de-listed this upcoming year.
  - Supports LSG Strategy: Reduce potential negative effects of climate change/variability, hurricanes, and development on the Louisiana coast.



# 2009 Research Accomplishments

## SSSS – Advances in Oyster Farming

- Dr. Supan and his colleagues successfully established resident triploid and tetraploid oyster broodstock populations in support of research and commercial grow out. Both ploidies are needed for the commercial scale production of high-meat yielding summer crops of triploid oysters.
- Dr Supan and Dr. LaPeyre established a “dermo” resistant line of oyster broodstock that are being used to producing longer surviving oysters for commercial production.
- Dr. John Lynn successfully used estradiol treatments of triploid oysters to increase the percentage of reproductively active triploid oysters.

## SCC – Climate Change Vulnerability Research

- To help LSG scale the potential impacts of sea level rise and storm surge, GIS researcher Dr Nina Lam determined that about 19 million people resided within one kilometer from the shoreline in the continental U.S., and approximately 11.6 million people lived below the three-meter elevation. The state-by-state estimates show that Florida had the highest percentage of population living in areas below three meter (32.5%; 5.9 million people), followed by Louisiana (27.6%; 1.2 million people).

