

**2009-2013 Louisiana Sea Grant Strategic Plan Outline**  
(Please refer to a specific strategy by the number preceding same, e.g. 1.1.1.)

**NOTE:** Although all of the strategies below are important to both Louisiana and Louisiana Sea Grant, strategies in *blue italics* have been identified as “Priority Strategies” for the 2012-2014 funding cycle. Proposals related to the subjects addressed in these “Priority Strategies” are particularly encouraged and will receive the highest consideration during the evaluation process.

**Focus Area: HEALTHY COASTAL ECOSYSTEMS**

Goal: Sound scientific information to support ecosystem-based approaches to managing and restoring Louisiana’s coastal environment

Strategies

*1.1.1. Establish benchmark costs and benefits of coastal marsh restoration and protection projects, including impacts on the economies and cultures of coastal communities.*

*1.1.2. Rebuild Louisiana’s wetlands with river diversion and sediment conveyance projects that optimally manage and allocate sediments, minimally impact native flora and fauna, and positively affect water quality.*

1.1.3. Predict, detect, monitor, and understand both harmful and beneficial algal blooms with existing and newly developed methodologies and technologies.

Goal: Widespread use of ecosystem-based approaches to managing land, water, and living resources in Louisiana’s coastal areas

Strategies

1.2.1. Model impacts of coastal restoration projects on residents and economies considering both the potential socioeconomic implications of the projects themselves and the desirable socioeconomic alternatives of such projects.

*1.2.2. Engage and educate Louisiana residents and community leaders about both their relationship with the marine and coastal environments and the critical need for conservation and restoration of same.*

1.2.3. Reduce potential negative effects of climate change/variability, hurricanes, and development on the Louisiana coast with predictive models developed, refined, and applied in partnership with NOAA entities such as National Weather Service and Coastal Services Center.

Goal: Restored function and productivity of Louisiana’s degraded ecosystems

Strategy

*1.3.1. Restore damaged and lost wetlands to the functional equivalent of natural ecosystems based on realistic ecological metrics, hydrologic requirements, and design criteria.*

**Focus Area: SUSTAINABLE COASTAL DEVELOPMENT**

Goal: Healthy Louisiana coastal economies that include working waterfronts, an abundance of recreation and tourism opportunities, and coastal access for all citizens

Strategies

**2.1.1.** *Support socioeconomic analyses of coastal communities that identify and communicate employment alternatives, such as either transitioning to new local employment or applying traditional skill and knowledge to the aquaculture of finfish and shellfish.*

**2.1.2.** Engage and educate residents of Louisiana's coastal communities in processes that identify and pursue sustainable economic development policies and programs.

Goal: Louisiana coastal communities that make efficient use of land, energy, and water resources and protect the resources needed to sustain coastal ecosystems and quality of life

Strategy

**2.2.1.** Invest the citizens of coastal communities in responsible water management policies and practices through the development and delivery of relevant educational and media appropriate materials and programs.

Goal: Louisiana coastal citizens, community leaders, and industries that recognize the complex interrelationships among social, economic and environmental values in coastal areas and work together to balance multiple uses and optimize environmental sustainability.

Strategy

**2.3.1.** *Design and implement outreach programs on sustainable use of coastal resources for community leaders and industry.*

**Focus Area: SAFE AND SUSTAINABLE SEAFOOD SUPPLY**

Goal: A sustainable supply of safe Louisiana seafood to meet public demand

Strategies

**3.1.1.** *Restore important native recreational and commercial finfish and shellfish populations by identifying and protecting habitats essential to their reproduction, feeding, habitation, and growth to marketable size.*

**3.1.2.** Develop practices, technologies, and systems designed for enhanced, more efficient operation of mariculture facilities with minimal impact on coastal and oceanic environments and habitats, on natural fisheries, and on the people who depend on natural fisheries.

Goal: A healthy Louisiana seafood industry that harvests, produces, processes, and markets seafood responsibly and efficiently

Strategies

**3.2.1.** *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.*

**3.2.2.** *Promote seafood harvesting strategies that both maximize efficiency and profitability and minimize environmental impacts.*

**Focus Area: HAZARD RESILIENCE IN COASTAL COMMUNITIES**

Goal: Widespread understanding of the risks associated with living, working, and doing business along Louisiana's coast

Strategies

*4.1.1. Investigate interactions among sea level rise, subsidence, and storm surge, including implications for saltwater intrusion, coastal flooding, agriculture, human health and safety, and cultural changes.*

**4.1.2.** Develop models of successfully resilient communities, including contributions of community demographics, economic base, insurance coverage, building codes, education programs, health care resources, fishery infrastructure, and development.

Goal: Community capacity to prepare for and respond to hazardous events in Louisiana

Strategies

*4.2.1. Facilitate implementation of improved land use and waterfront planning, building codes and disaster preparedness in Louisiana coastal communities by developing and distributing best practices information.*

*4.2.2. Understand, quantify, and predict impacts of both natural features, including wetlands and upland vegetation, coastal/nearshore morphology, beach dunes, and barrier islands, and man-made structures in providing defense against tropical storms and storm surges.*