

*Sea Grant supports*

# AQUACULTURE'S FUTURE THROUGH THE 10-YEAR SEA GRANT AQUACULTURE VISION



## VISION STATEMENT:

The National Sea Grant College Program's integration of research, outreach and education will be instrumental in creating and applying aquaculture products, tools and services to foster the expansion of a sustainable U.S. marine and Great Lakes aquaculture industry.



Sea Grant will likely be investing \$50 to \$100 million in aquaculture research and tech transfer over the next 10 years. A clear vision will guide this strategic investment.

In March 2015, the Sea Grant Association established a committee to develop a 10-year vision for Sea Grant aquaculture investments. The vision determines Sea Grant's most appropriate roles over the next 10 years and identifies priority research and outreach strategies.

This is an executive summary of that vision; the full text is available at: [https://eos.ucs.uri.edu/EOS\\_Linked\\_Documents/masgc/16-015.pdf](https://eos.ucs.uri.edu/EOS_Linked_Documents/masgc/16-015.pdf)

### 91%

Amount of seafood consumed in the U.S. that is imported

### 50%

Amount of imported seafood in the U.S. that is farmed

### \$12B

Approximate annual U.S. trade deficit in seafood

### 2-4M tons

Projected domestic seafood gap in 2025

### \$200M

Economic impact from Sea Grant's investment in aquaculture research and technology transfer

### 8,000

Jobs retained or created by Sea Grant efforts from 2012-2015

## Sea Grant's 10-Year Aquaculture Vision

### COMMERCE

Sea Grant will provide economic and marketing research and associated outreach programming to increase the profitability and environmental sustainability of aquaculture businesses.

### PERMITTING AND POLICIES

Sea Grant will identify common policies to ensure uniform regional governance and guide implementation of consistent interstate aquaculture rules that industry and government support. Sea Grant Legal Programs should facilitate dialogue between government agencies, researchers and the aquaculture industry to increase understanding of current laws and policies, the needs of the aquaculture industry, and options for legal and regulatory reform.

### CURRENT AND EMERGING SPECIES

Sea Grant will increase domestic production of currently farmed and promising new species through research and extension efforts that support improvements in nutrition, reproduction, larval rearing and genomics to enhance growth, improve health and adapt to changing conditions, such as ocean acidification and climate change.

Sea Grant will also improve hatchery production to produce reliable shellfish seed, macroalgae seedlings and finfish juveniles to accelerate industry growth.

### PRODUCTION SYSTEMS

Sea Grant will link industry needs to basic and applied research efforts, including establishing demonstration centers to develop and refine aquaculture systems and disseminate applied information to end users.

### SEAFOOD SAFETY AND QUALITY

Sea Grant will conduct research and provide technical assistance and outreach to aquaculture producers, resource managers, scientists and consumers to ensure the safety and quality of sustainably cultured seafood products to meet public demand.



Photo: Roy Kron/Louisiana Sea Grant

The newly constructed Michael C. Voisin Oyster Hatchery is located on Grand Isle, Louisiana.



Photo: Ken Chamberlain/Marketing & Communications Ohio State University

Dr. Han-Ping Wang presents a fish in his genetically improved yellow perch line.



Photo: Connecticut Sea Grant

Sea Grant researcher Charles Yarish, center, and colleagues harvest kelp from a pilot farm in Long Island Sound in 2012.

Read the complete 10-year Sea Grant Aquaculture Vision:  
[https://eos.ucs.uri.edu/EOS\\_Linked\\_Documents/masgp/16-015.pdf](https://eos.ucs.uri.edu/EOS_Linked_Documents/masgp/16-015.pdf)

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