



# U.S. Marine Aquaculture

Farmer's Perspective

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# Goal



Join the ranks of countries producing farmed seafood to meet the global challenge of 9 billion people by 2050

- The US imports most of its seafood (estimates 65% to 90%).
- Limited marine finfish production in state marine waters (Maine, Hawaii and Washington), inland ponds (Texas), indoor systems (Florida, Maine, California).
- Limited shrimp production in indoor systems (Florida, Indiana, Texas, Michigan) and inland ponds (Alabama, Arizona, Florida).
- Limited seaweed production in state marine waters (California, New England States)
- Extensive shellfish production in 23 coastal state marine waters.
- No marine aquaculture in federal waters.

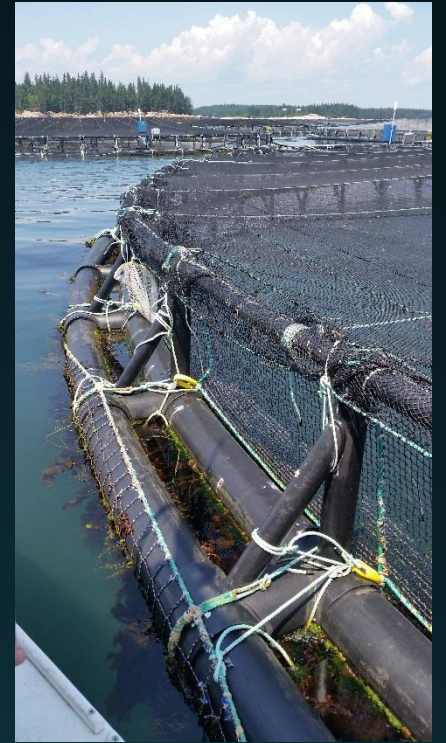
# Seafood Snap Shot

- US seafood market \$102 billion
- US edible fishery landings 7.5 billion pounds
  - Exported 2.9 billion pounds.
- US imported edible seafood 6.1 billion pounds
- US aquaculture 625 million pounds
- Per capita consumption 16.1 pounds.
  - 2 servings per week (26 pounds)
  - 10% to 20% of Americans achieve this goal.





# Gear



Images courtesy NOAA, NAA, Gef Flimlin, University of Florida, Pacific Shellfish Institute



# Guts





# Gasp!

Animal Health Protection Act; Animal Medicinal Use Drug Clarification Act; Coastal Zone Management Act; [Endangered Species Act](#); [Federal Food Drug and Cosmetic Act](#); Federal Insecticide, Fungicide, and Rodenticide Act; Fish and Wildlife Coordination Act; Federal Water Pollution Control Act ([Clean Water Act](#)); Food Safety Modernization Act; [Lacey Act](#); Magnuson-Stevens Fishery Conservation and Management Act; [Marine Mammal Protection Act](#); Migratory Bird Protection Act; [National Environmental Policy Act](#); National Historic Preservation Act; National Marine Sanctuary Act; National Invasive Species Act; Non-indigenous Aquatic Nuisance Prevention and Control Act; Outer Continental Shelf Lands Act; and [Rivers and Harbors Act](#)





# Current Challenge: Undervalued Regulations

## The Basics:

Clean Water Act: NPDES Permit

River and Harbors Act: Section 10 Permit

## The Complexities:

National Environmental Policy Act

Designating a Lead Agency

Environmental Impact Analysis

Coastal Zone Management Act



# Current Challenges: Insurance, Property Right

## Insurance:

- Property – available but unaffordable.
- Workers – available but expensive.
- Crop – recently available for catastrophic disasters.

## Property Right:

- Transferable, bankable asset with a history in contract and property law.
- Nations farming offshore offer a property right.
- US coastal states offer a property right to marine aquaculture.
- No property right in federal waters.



The background of the slide features a photograph of ocean waves. The waves are a deep teal color with white foam at the crests, breaking from the left side of the frame. The overall tone is dark and moody, with the text overlaid on a semi-transparent dark blue-grey rectangle.

# Going Forward

- Continued growth in shellfish production
- USDA Risk Management Agency: Crop insurance
- Risk Takers creating finfish farms in federal waters
  - “The leading edge is the bleeding edge”
- Executive Order 13921, Promoting American Seafood Competitiveness and Economic Growth
  - NOAA as lead agency
  - NOAA identifying Aquaculture Opportunity Areas
  - Regulatory guidance document
- Federal offshore legislation
  - 2005 and counting...



# Thank You!

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