Aquaculture Policy and Strategy in the U.S.



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Aquaculture in the United States

The global level of wild-caught fisheries has been relatively steady for more than 20 years, even as the human population continues to grow. Today, the United States imports roughly 70 to 85 percent of the seafood we eat and about half of this imported seafood is farmed.



Photo of fish from inside an offshore net pen in Hawaii state waters. Photo credit: Ocean Era



Photo of snorkeler in open water looking down on vertical lines covered in shellfish. Photo credit: U.C. Davis





Top Aquaculture Producers Worldwide

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Total production in relation to land and water resources





Status of Aquaculture Projects in Federal Waters July 2023



Northern Atlantic

- 2 permitted research projects
- 4 commercial applications in process

Gulf of Mexico

- 1 research project application in process
- 2 commercial applications in process



Pacific Ocean

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- 1 permitted research project
- 4 commercial applications in process

Climate Change Threatens Our Global Food Production System





OCEAN CLIMATE ACTION PLAN

A REPORT BY THE OCEAN POLICY COMMITTEE MARCH 2023

THE WHITE HOUS

"Expand and decarbonize sustainable U.S. aquaculture production to enhance resilience of U.S. and global seafood system to the impacts of climate change."



White House National Science and Technology Council Subcommittee on Aquaculture

- Interagency Aquaculture Regulatory Efficiency Plan
- Interagency Aquaculture Science Coordination Plan
- Interagency Aquaculture Economic Development Plan











Permitting for Marine Aquaculture in Federal Waters





US Army Corps of Engineers.

- Magnuson-Stevens Fishery Conservation and Management Act (MSA) permits
- MSA Essential Fish Habitat consultations
- Endangered Species Act consultations
- Marine Mammal Protection Act authorizations
- CZMA coordination
- National Marine Sanctuary Act consultations

- Rivers and Harbors Act 1899

 Section 10
- Clean Water Act 1972/77
 - Section 404
- Marine Protection, Research, and Sanctuaries Act 1972
 - Section 103



Clean Water Act

- Section 402 National Pollutant Discharge Elimination System
- Section 403 Ocean Discharge Criteria



+ Several other agencies depending on the specifics of the project

NOAA Aquaculture Program





NOAA Aquaculture Program

Vision: A thriving, resilient, and inclusive U.S. aquaculture industry that supports jobs, expands access to nutritious domestic seafood, and reinforces healthy coastal, marine, and Great Lakes ecosystems in a changing environment.

Mission: To provide science, services, and policies that create conditions for opportunity and growth of sustainable U.S. aquaculture.



NOAA Aquaculture - Aquaculture Plans



NOAA Aquaculture Strategic Plan

Four Goals:

- 1. Manage Sustainably and Efficiently
- 2. Lead Science for Sustainability
- 3. Educate and Exchange Information
- 4. Support Economic Viability and Growth

NOAA Draft National Seafood Strategy

Goal 2: Increase sustainable U.S.





Goal #1

Manage Sustainably and Efficiently

Improve regulatory processes for sustainable coastal and marine aquaculture through collaboration with partners.

Goal #2

Lead Science for Sustainability

Use world-class science expertise to meet management and industry needs for a thriving seafood production sector and share this knowledge broadly.

Goal #3

Educate and Exchange Information

Build awareness and support for coastal and marine aquaculture through two-way communication with diverse stakeholders and partners.

Goal #4

Support Economic Viability and Growth

Facilitate a robust aquaculture industry that thrives as a key component of a resilient seafood sector.



AOA with four farms

Assessment and Use of AOAs

Stakeholder input is essential in the design and location of AOAs and NOAA expects these areas will be shaped through a public process that allows constituents to share their community and stewardship goals, as well as critical insights.

AOA size, exact location, and farm types will be determined through spatial analysis and public input to expand sustainable domestic seafood production while minimizing potential user conflicts. Farms will still need to go through the permitting process and environmental reviews.

AOA Process Milestones

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PEIS = Programmatic Environmental Impact Statement Element of the National Environmental Policy Act

Aquaculture Opportunity Atlas







Page 17 U.S. Department of Commerce | National Oceanic and Atmospheric Administration | National Marine Fisheries Service





Page 18 U.S. Departr





Page 19 U.S. Depart



Quick Facts:

- Partnership with State of Alaska
- State waters only (0-3nm)
- Shellfish, invertebrates, and Algae



Guide to Permitting Marine Aquaculture in the United States (published Feb 2022)









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