



Food Security



An 800-year-old fishpond on O'ahu brings oysters to our table while controlling excessive growth of invasive algae.

Climate Resilience

Learn More!



Perpetuating Ancestral Knowledge



Loko i'a (fishpond) practitioners and organizations from across Hawai'i are restoring traditional aquaculture ponds—and community relationships with the land.

Sustainable aquaculture practices could provide climate resilience for our food production systems. Limu cultivation could even help mitigate ocean acidification.



Aquaculture is a critical part of NOAA's strategy for sustainable seafood production and jobs, rebuilding protected species populations and habitats, and enhancing coastal resilience.



Technology and Innovation



Entrepreneurs on Hawai'i Island use space technology and design principles to advance sustainable open-ocean farming.

Researchers on Hawai'i Island successfully raised a native carnivore, kahalakaepachi or almaco jack, on a fish-free diet—a major milestone in decreasing reliance on fish-derived feed.

Experts on Kauai and O'ahu are innovating techniques in raising sea cucumber and goatfish—a first for these native species.



Efficient Food Production



Native Species Cultivation



Economic Overview

- U.S. seafood trade deficit is \$17 billion.
- U.S. ranks 18th worldwide in aquaculture production.
- Half of the world's seafood production comes from aquaculture.

