

Science, Service, Stewardship



The Implications of NOAA's Aquaculture Policy: Where We Go from Here?

MAFAC

October 26, 2011

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**NOAA
FISHERIES
SERVICE**



Today's Talk

- New Policy
- National Shellfish Initiative
- Tech Transfer Initiative
- Regulatory Actions





Aquaculture Responsibilities

The NOAA Office of Aquaculture addresses all forms of marine aquaculture (commercial and restoration) and focuses on

- **Regulations/Policy**
- **Science & Research**
- **International**
- **Outreach**





Aquaculture for Production

2/3 of U.S.
aquaculture
is shellfish

- oysters, clams
mussels
- salmon
- shrimp
- marine fish
- algae





Aquaculture for Stock Replenishment

Stock
replenishment
supports

- commercial/
recreational
fisheries
- threatened and
endangered
species
- marine habitats





Marine Aquaculture Provides...



Health
Benefits

“Blue-
Green”
Jobs



Working
Waterfronts

Water/
Habitat
Benefits





NOAA's Aquaculture Policy...



Puts aquaculture in the context of NOAA's stewardship and economic goals



Establishes a national approach to marine aquaculture including, but not limited to, federal waters



Sets NOAA's priorities – for science/innovation, regulatory improvements, partnerships



Provides guidance only – not a substitute for statutory/regulatory mandates



Reflects public input gathered through public engagement



Three Policy-Related Initiatives

National Shellfish Initiative

- Work with partners to increase commercial and restoration shellfish production and habitats
- Aim to increase locally-produced seafood, jobs, improved water quality, and restoration of shellfish habitat

Technology Transfer Initiative

- Transfer innovative technology to develop aquaculture in the US
- Develop public-private partnerships that showcase innovative practices

Federal Waters

- Move forward with rules to implement Gulf FMP for aquaculture
- New NOAA Aquaculture Policy and Gulf FMP for aquaculture serve as template for other regions



National Shellfish Initiative



Enhance
shellfish
farming &
restoration

Research on
environmental
effects

Spatial
planning

Efficient
permitting

Innovative
financing



National Shellfish Initiative (cont.)

Leverage science, resources, partnerships, authorities

Design phase – discussions with partners

Regional initiatives/actions: examples

National actions (NW48, ecosystem services, acidification, post-harvest...)





Technology Transfer Initiative

Innovative technology for commercial marine aquaculture

Focus NOAA science, regulatory, grant, and staff capabilities in partnership with industry and R&D

Leverage funds from federal agencies, private sector, others





Tech Transfer -- Past Examples



Mussel farming in NE

Use of fish processing trimmings in aquafeeds

Plant Based Aquafeeds Working Group

Cod Academy in Maine

IMTA in Maine and Washington State

Hatchery technology for finfish

Probiotics for shellfish hatcheries

Recirculating aquaculture for marine species

Offshore cage design



Regulatory Actions

Gulf of Mexico FMP for Aquaculture

Internal Aquaculture Regulatory
Working Group

JSA Work Group on aquaculture
regulations





Commerce & Other Federal Resources

DOC

NOAA

Sea Grant

EDA

NIST

MBDA

ITA

USDA

R&D

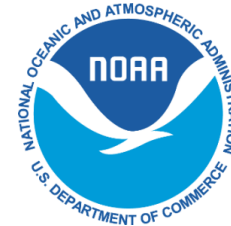
Insurance

soil
conservation

marketing
programs

NSF

SBA



United States Department of Agriculture
National Institute of Food and Agriculture



National Science Foundation
WHERE DISCOVERIES BEGIN

NOAA
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