# The Washington Shellfish Initiative Implementing the NOAA National Aquaculture Policy in Washington

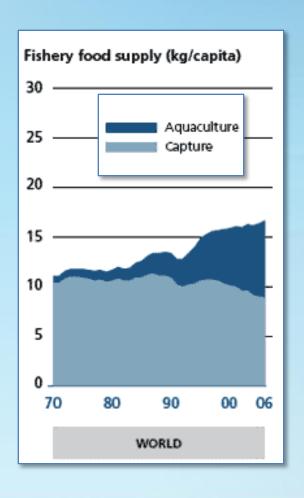


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### **NOAA Aquaculture Policy**



- Enable domestic production of seafood
- Maintain healthy marine ecosystems
- Create employment and business opportunities
- Support working waterfronts
- Restore and conserve marine habitat



Olympia Oyster (Ostrea lurida)

### **National Shellfish Initiative**

- Spatial planning and efficient permitting
- Research on environmental effects
- Technologies for restoration and farming
- Coordinated and innovative financing



Oyster/Eelgrass Habitat Study



Shellfish Seed Sorter

### **Washington Shellfish Initiative** Why Shellfish?

- It's about jobs and economic opportunity
- It's about clean water
- It's about culture and heritage
- And good government can help



Native Americans Harvesting Shellfish (NWIFC)



BELLEVUE - Some 60 percent of Puget Sound's prime commercial shellfish growing areas are showing signs of bacterial contamination, according to data presented Monday at the 2001 Puget Sound Research Conspearheaded the conference.

The sound's problems are many and obvious, said Elliott Norse, a marine ecologist who founded the Redmond-based Conservation Biology Institute. "There's too many of us, we consume too much and we don't value nature

## Washington Shellfish Initiative Actions

- Establish a public/private partnership to improve shellfish aquaculture
- Promote native shellfish restoration and recreational shellfish harvest
- Ensure clean water to protect and enhance shellfish beds



Razor Clam Harvest



Samish Bay Bivalve Bash

# Washington Shellfish Initiative Partnership

- Northwest Indian Fisheries Commission
- Washington Sea Grant
- National Oceanic and Atmospheric Administration
- Environmental Protection Agency
- US Army Corp of Engineers
- US Geological Survey
- Northwest Straits Commission
- Whatcom County Conservation District
- The Nature Conservancy

- Puget Sound Restoration Fund
- Pacific Coast Shellfish Growers Association
- Puget Sound Partnership
- Office of Regulatory Assistance
- Department of Natural Resources
- Department of Health
- Department of Fish and Wildlife
- State Parks Commission
- Department of Ecology

## Create Public/Private Partnership for Shellfish Aquaculture

#### Form Shellfish Interagency Permitting Team

- State: WDOH, WDFW, Ecology, DNR, ORA
- Federal: USACOE, EPA, NOAA, USFWS
- Tribal Governments
- Counties

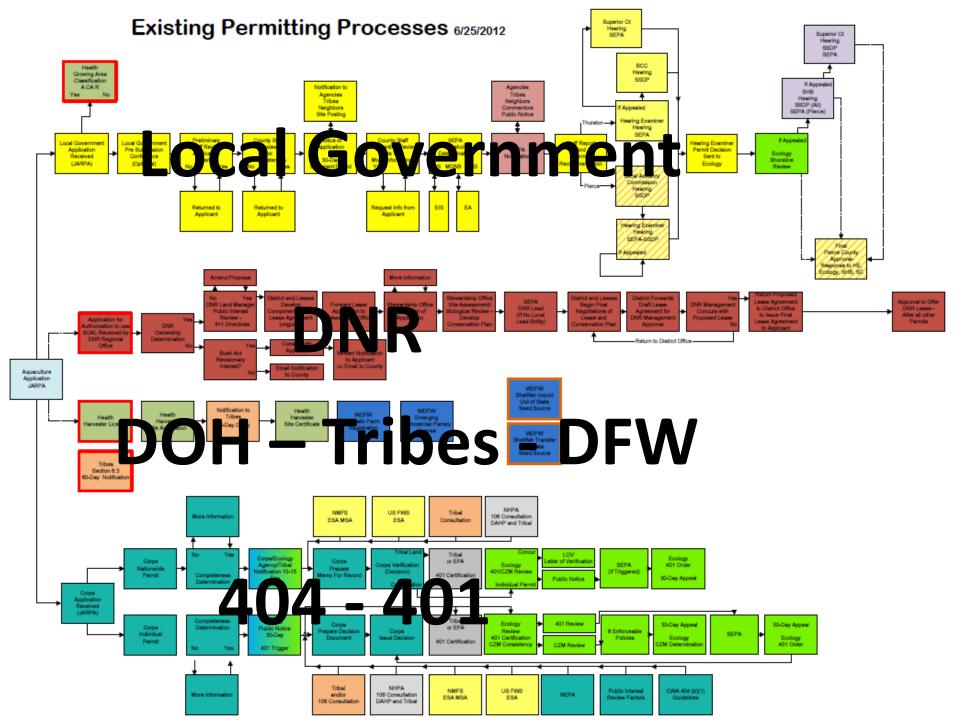
Implement pilot projects through Model Permitting Program

**Provide Technical Assistance for Local Shoreline Master Programs** 

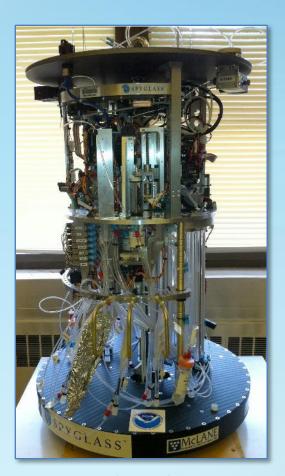


**Geoduck Nursery Tubes** 

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# Continue Vital Shellfish Aquaculture Research



- Eelgrass Monitoring
- HABs
- Ecosystem Services
- Ecological Impacts
- Public Symposia
- Current RFPs



**Nutrient Bioextraction Study** 

**Environmental Sample Processor** 

# **Improve Guidance for Local Shoreline Master Programs**

Protect shoreline natural resources





Encourage water-dependent uses

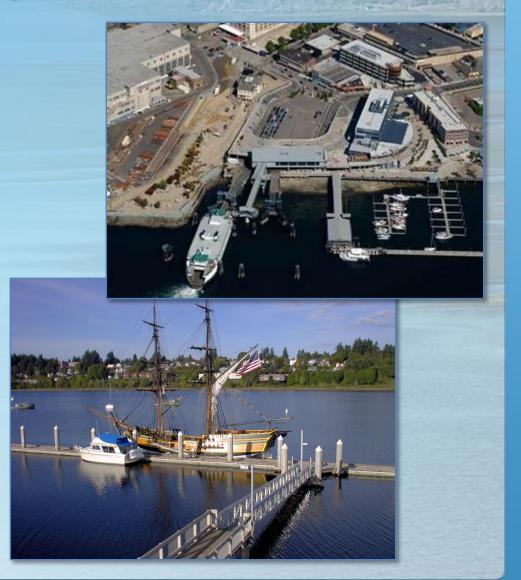
Promote public access



### Water-Dependent Use

 Cannot exist in a location not adjacent to the water.

 Dependent on the water due to intrinsic nature of operations.



### **SMA Preferred Uses**

- Control of pollution
- Prevention of damage to natural environment
- Unique to or dependent upon use of the State's shorelines



### **SMA Priority Uses**

When alterations to the natural condition of the shoreline are authorized, priority shall be given to:

- Single family residences
- Ports
- Recreational uses and other opportunities to increase public access
- Industrial and commercial development dependent on their location on or use of shorelines of state
- Other opportunities for substantial numbers of people to enjoy shorelines



Oyster Harvest Willapa Bay



**Washington Coastal Atlas** 



Cape Horn, Mason Co, WA

## Promote Native Shellfish Restoration and Recreational Shellfish Harvest



- Olympia oyster and Pinto abalone restoration
- Improve public access for recreational harvest
- Create public awareness and support for shellfish

Volunteers Planting Olympia Oysters



Informational Signage

**Recreational Harvest** 

Pinto Abalone

## **Ensure Clean Water to Protect and Enhance Shellfish Beds**

- Direct \$4.5 million in EPA funding to protect and improve water quality
  - Help local governments create pollution identification and correction programs.
  - Help Local Health Jurisdictions implement onsite sewage system management plans.
  - Pay for clean water best management practices on agricultural lands.
- Form an EPA and state Pollution Action
   Team
- Strategically Administer the Clean Vessel Program
- Complete No Discharge Zone Assessment



### **Take Steps to Address Ocean Acidification**



**Seawater Monitoring Buoy** 

- Convene Blue Ribbon Panel
  - Summary of science
  - Actionable recommendations
- WA Sea Grant research on Pacific oysters



Pteropod Shells Eroded by Corrosive Seawater

### Shellfish are Part of the Fabric of our State

- Integral to Washington's history, culture & heritage
- **Draw for regional tourism**



Oyster Run Motorcycle Rally



Tour buses at Blau Oyster



'Speedy" the Geoduck The Evergreen State College





### **Washington Shellfish Initiative**

http://www.nmfs.noaa.gov/aquaculture/

http://www.ecy.wa.gov/programs/sea/aquaculture/index.html