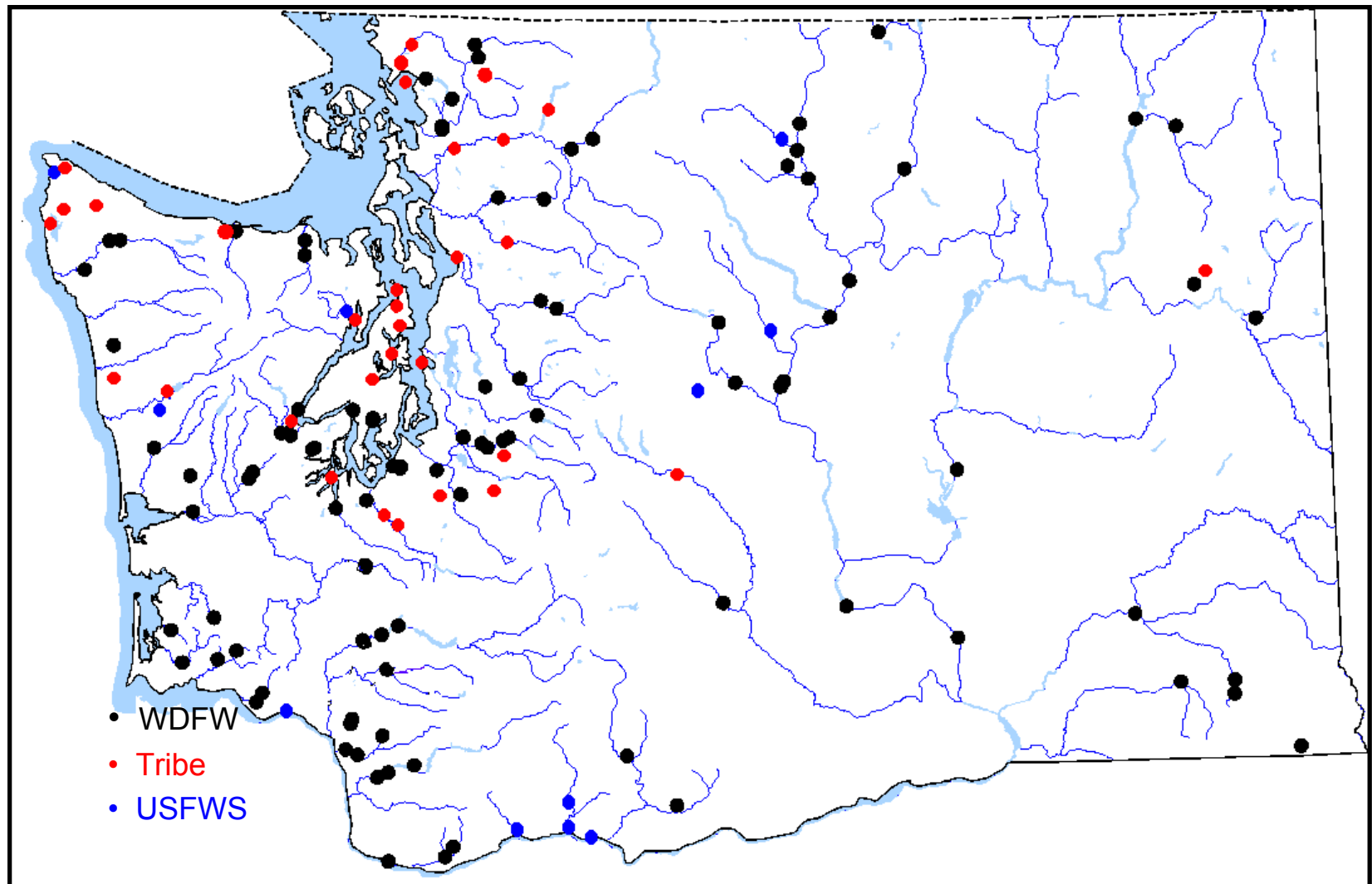


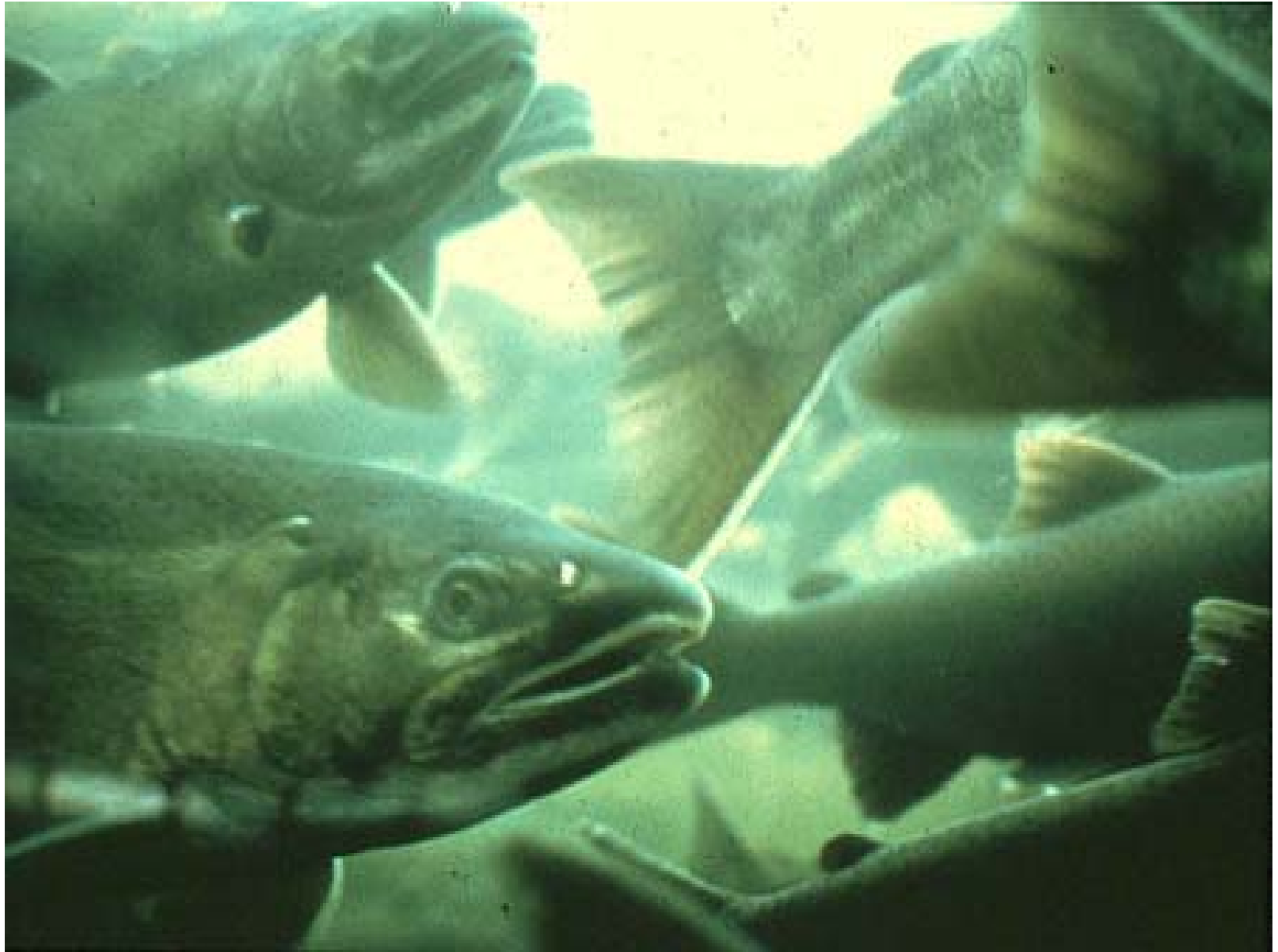
Hatchery Reform

IN PUGET SOUND & COASTAL WASHINGTON



November 2002





Hatchery Reform Project, November 2002



Hatchery Reform Project, November 2002

Project Supporters

- **Representative Norm Dicks (D-WA)**
- **Washington Governor Gary Locke**
- **U.S. Senator Patty Murray (D-WA)**
- **Former U.S. Senator Slade Gorton**
- **Representative Jennifer Dunn (R-WA)**
- **Northwest Indian Fisheries Chair Billy Frank, Jr.**
- **Washington State Department of Fish and Wildlife
Director Jeff Koenings**
- **Washington State Salmon Recovery Funding Board
Chairman William Ruckelshaus**

The Hatchery Reform Project is a systematic, science-driven redesign of how hatcheries will be used to achieve two new purposes:

- 1) helping to recover and conserve naturally spawning populations; and***
- 2) supporting sustainable fisheries.***



- **Independent Scientific Panel**
- **Research Grant Program**
- **State and Tribal Implementation**
- **Third-Party Facilitation**



Hatchery Scientific Review Group

John Barr (Vice Chair)

NW Indian Fisheries Commission

Lee Blankenship (Vice Chair)

Northwest Marine Technology

Donald Campton, PhD

US Fish & Wildlife Service

Trevor Evelyn, PhD

*Department of Fisheries &
Oceans Canada (retired)*

Conrad Mahnken, PhD

National Marine Fisheries Service

Lars Mobrand, PhD (Chair)

Mobrand Biometrics

Lisa Seeb, PhD

Alaska Department of Fish & Game

Paul Seidel

WA Department of Fish and Wildlife

William Smoker, PhD

University of Alaska



Hatchery Reform Project, November 2002

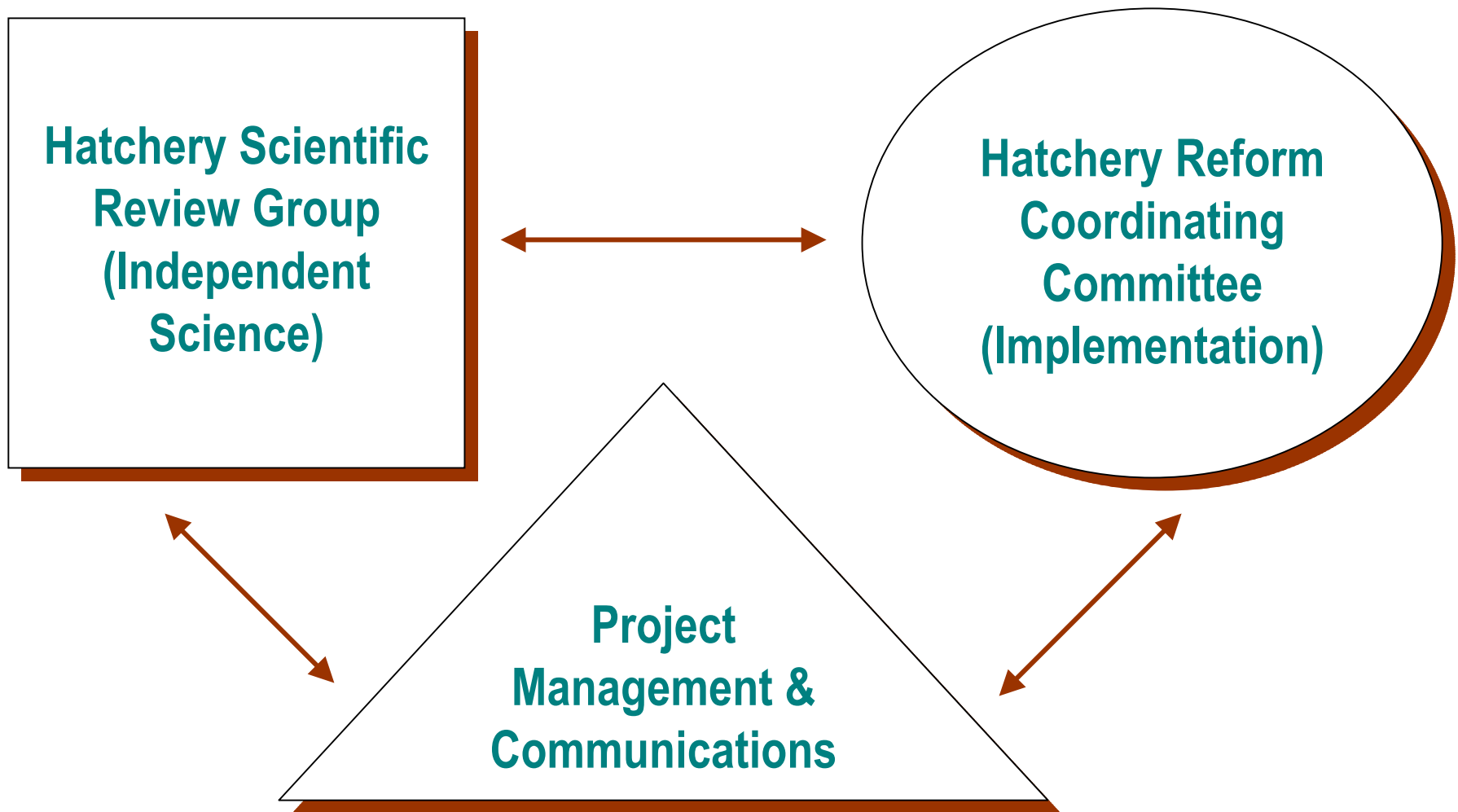
Hatchery Reform Coordinating Committee



Northwest Indian
Fisheries Commission



**Congressional
Hatchery Science
Advisory Team**



- **Scientific Framework**
- **Benefit/Risk Assessment Tool**
- **Hatchery Operational Guidelines**
- **Monitoring and Evaluation Criteria**
- **Research Program**



2001 Regions

- Eastern Strait of Juan de Fuca
- South Puget Sound
- Stillaguamish/Snohomish Rivers

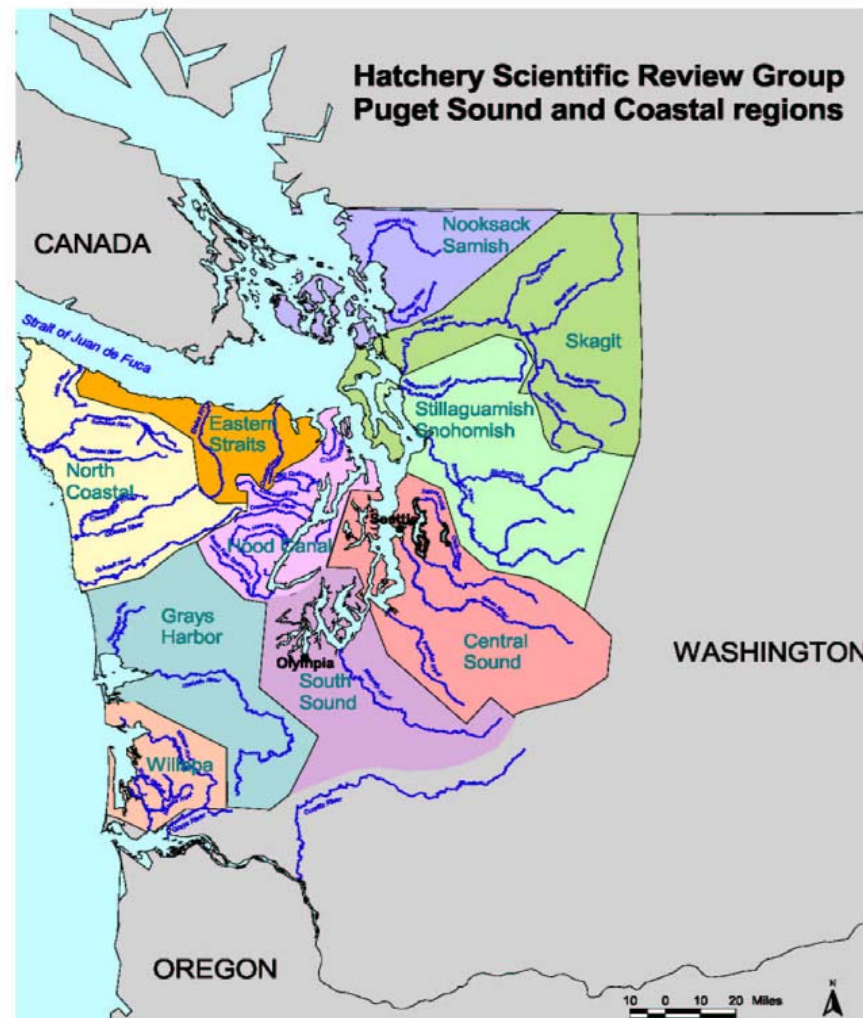
2002 Regions

- Skagit River Basin
- Nooksack/Samish Rivers
- Central Puget Sound

2003 Regions

- Hood Canal
- Willapa Bay
- North Coast
- Grays Harbor

REGIONAL REVIEWS



Hatchery Reform Project, November 2002



REGIONAL REVIEWS

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EASTERN STRAITS

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STILLAGUAMISH/SNOHOMISH

Hatchery Reform Project, November 2002



SOUTH PUGET SOUND

Hatchery Reform Project, November 2002

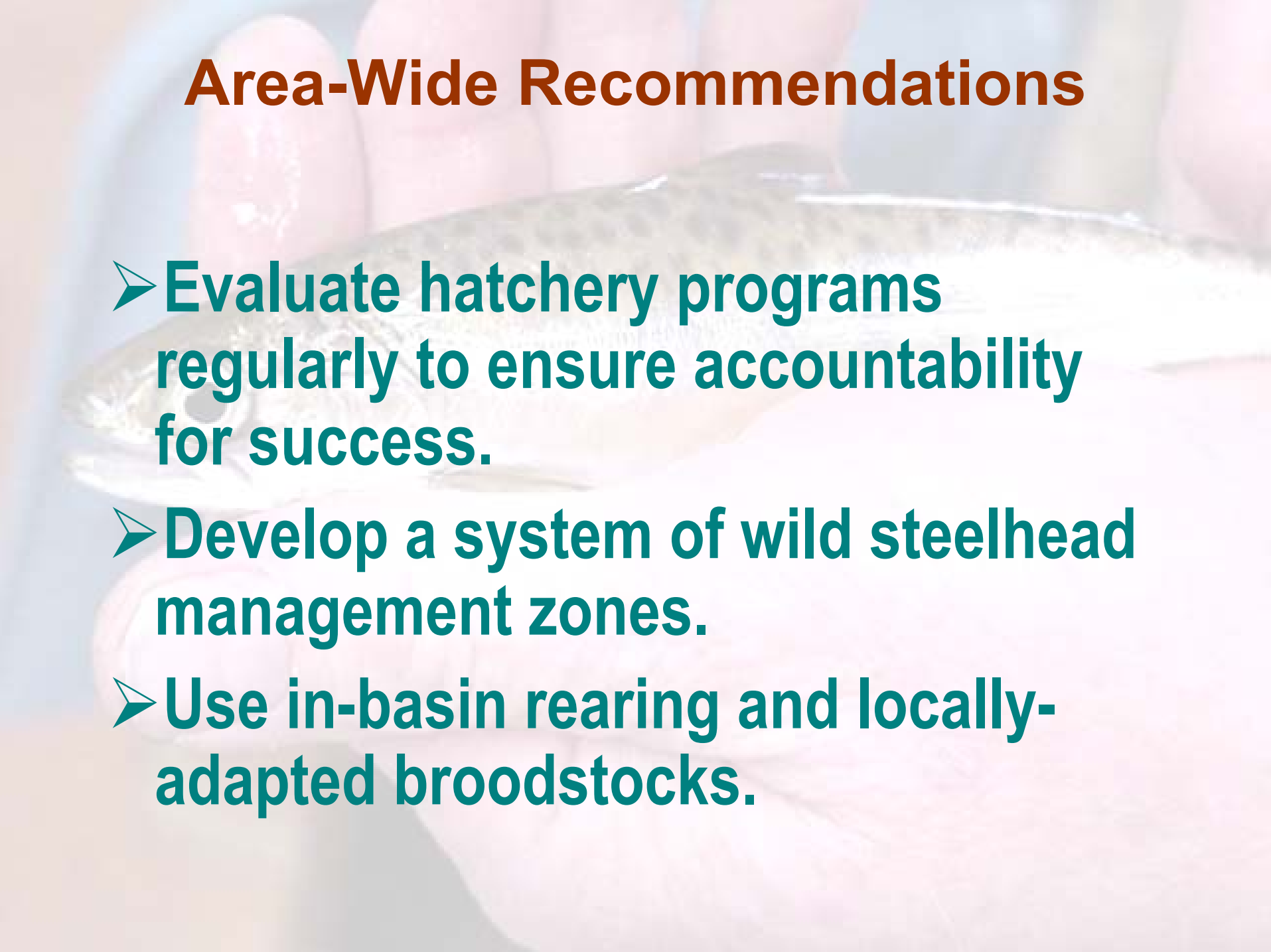
Area-Wide Recommendations

- Take a regional approach to managing hatchery programs
- Operate hatcheries within the context of their ecosystems
- Take into account both freshwater and marine carrying capacity in sizing hatchery programs

Area-Wide Recommendations

- Measure success in terms of contributions to harvest, conservation and other goals.
- Emphasize quality, not quantity, in fish releases.
- Incorporate flexibility into hatchery design and operation.

Area-Wide Recommendations

- 
- A close-up photograph of a steelhead trout being held gently by a person's hand. The fish is silvery with dark spots and is positioned horizontally across the frame. The background is a soft, out-of-focus view of the person's hand and fingers holding the fish.
- Evaluate hatchery programs regularly to ensure accountability for success.
 - Develop a system of wild steelhead management zones.
 - Use in-basin rearing and locally-adapted broodstocks.

Area-Wide Recommendations

- Take eggs during the entire natural period of adult return.
- Develop spawning protocols to maximize effective population size.

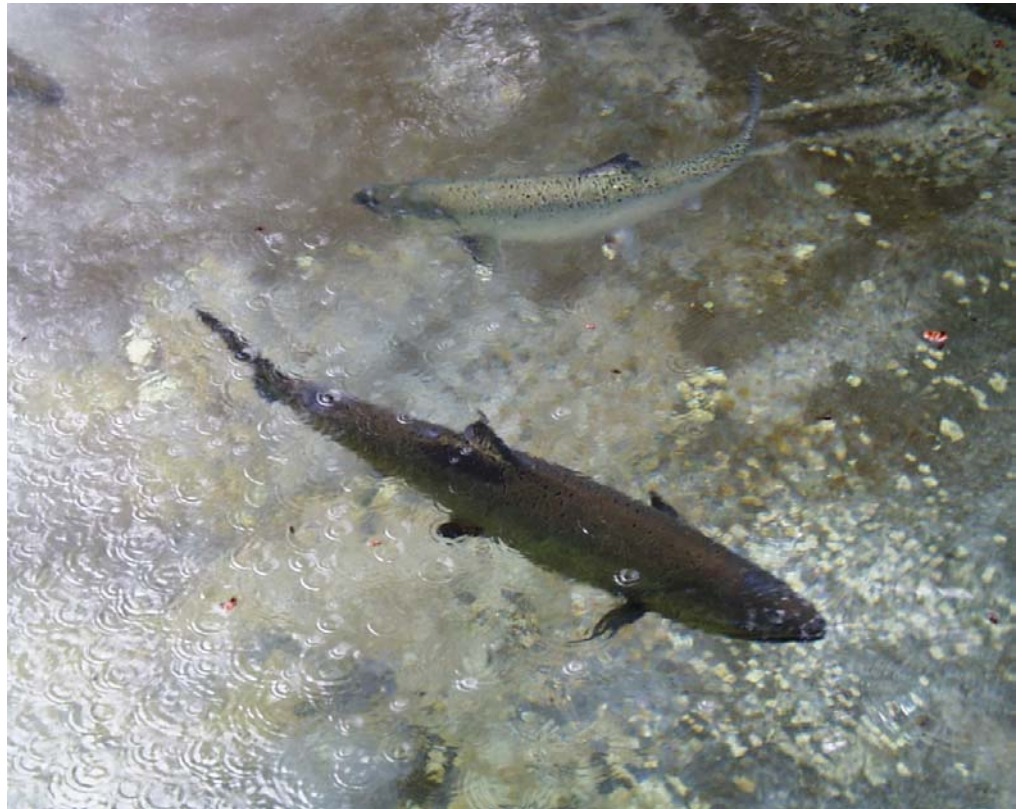



Hatchery Reform Project, November 2002

- Species Preservation
- Revised Program Management
- Programs Discontinued
- Hatchery Closed
- Barrier Removal
- Program Relocation
- Facility Improvements
 - Water Quality
 - Rearing Capacity
 - Predator Control



- Updated Policy
- Revised Management
- Accountability for Success



The background of the slide is a photograph of a wide river, likely the Duwamish River in Seattle, with a large bridge spanning it in the distance. The sky is a pale blue with soft, wispy clouds. The foreground shows a grassy bank on the left side of the river.

***“We are confident that by working together...
we can achieve our goal of returning wild salmon
stocks to abundance. Reforming hatchery
practices is another step on the road to wild
salmon recovery.”***

Billy Frank, Jr., Chairman, Northwest Indian Fisheries Commission

www.lltk.org/hatcheryreform.html