



# Pacific Northwest Aquatic Monitoring Partnership (PNAMP)

A forum for coordinating state,  
federal, and tribal aquatic  
monitoring programs in the  
Pacific Northwest

# PNAMP Goals

- Allow shared resources and data across organizations
- Provide increased scientific credibility, cost-effective use of limited funds, and greater accountability to stakeholders

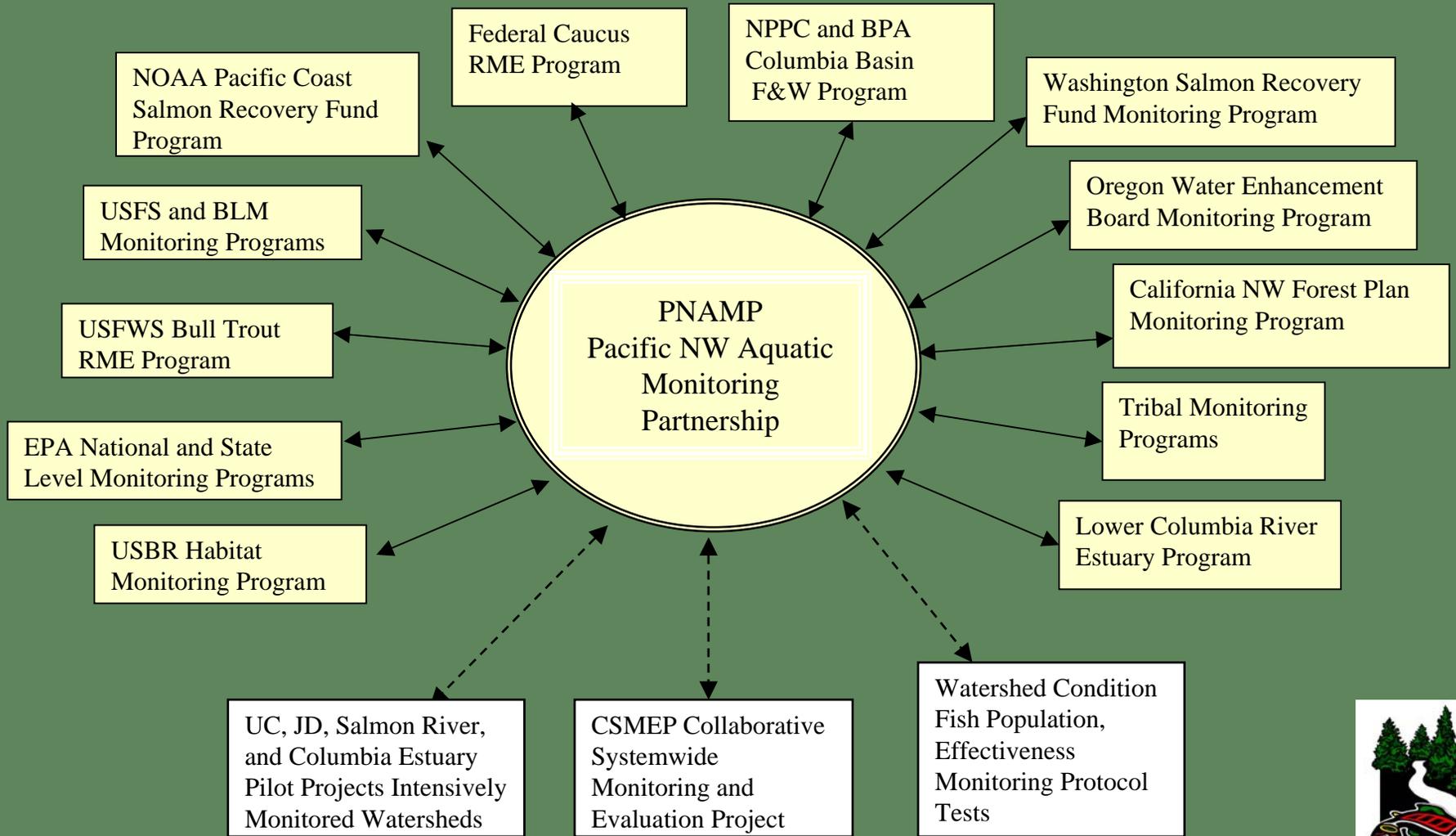


# PNAMP Objectives

- Provide a technical forum to develop, coordinate and inform monitoring and evaluation (M&E) programs
- Provide a forum and process for communication with decision makers
- Be a clearing house for sample design, protocol development, and data management activities
- Provide process to establish landscape/ecosystem metrics



# Regional Monitoring Partnership



# PNAMP Partners:

ACOE

BLM

BPA

CDFG

CBFWA

CRITFC

Colville Tribes

EPA

NMFS

NWIFC

NPCC

OWEB

PSMFC

USBR

USFS

USGS

WA ECY

WA GSRO

WA SRFB



# PNAMP 2005 Progress

- Charter finalized and signed by 19 state, tribal, federal, and regional entities
- Strategy document completed:
  - Identify key management questions
  - Develop standardized metrics and protocols
  - Identify regional efforts that are key components of a monitoring network
- 2005 Work plan document completed
- Five technical workgroups established and functioning



Watershed  
condition  
monitoring

Data  
management

Fish  
population  
monitoring



Project  
effectiveness  
monitoring

Estuary  
monitoring

Other topics  
as interest  
merits

# PNAMP 2005 Progress

- Protocol Comparisons:
  - **Watershed** “Side-by-side Test” underway Summer 2005
  - **Fish** Protocol document under review
- Universal Survey Design
- Intensely Monitored Watersheds draft plan underway
- Regional data dictionary begun



# Side-by-Side Protocol Test



UCB



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# PNAMP 2006 Cross-cut tasks

- **Protocol** standardization/coordination
- **Inventory** of monitoring activities
- Universal **Survey Design** for status/trend monitoring
- **Data Management** coordination
- High-level **Indicators** development
- Facilitate regional **Networking**



# Watershed Condition Monitoring

- Convene a series of workshops to discuss the general integrated sample design
- Complete the comparison of field attributes and sampling protocols
- Make recommendations on the “best” protocols and/or develop appropriate cross-walks between protocols
- Identify developers of GIS layers and status of each layer
- Recommend development of additional needed GIS layers



# Fish Population Monitoring

- Publish FPM protocols and identify gaps and protocols needing more formal comparison
- Support and assist recent collaborative efforts David Johnson *et al*
- Develop standardized field method training manual format
- Develop a coordinated approach to telemetry, tagging and marking juvenile migrants and adults



# Data Management

- Support the completion of an inventory and assessment of monitoring projects
- Establish a close working relationship for data consistency across the Workgroups
- Leverage existing data collection/reporting standards by engaging in collaborative activities with other data standardization efforts
- Interact with and support existing data coordination efforts



# Effectiveness Monitoring WG

- Implement, publish and publicize strategy to establish intensively monitored watersheds (IMWs) throughout the Pacific Northwest
- Support development of USBR Protocol Manager tool
- Develop a short list of regional scale high-level indicators of salmon recovery and watershed health
- Develop a regional strategy and recommendations for testing habitat restoration projects at the reach scale
- Based on the above, develop a list of habitat restoration project categories and protocols
- Inventory existing habitat restoration projects across the region with ongoing monitoring



# Estuary Monitoring WG

- Compile and organize existing information and data regarding existing and proposed estuary monitoring programs (as part of the PNAMP Monitoring Activity Inventory)
- Identify the key management questions that could be addressed with coordinated estuary monitoring
- Coordinate with PNAMP data management technical group to identify data sharing issues



# Next Steps:

- Increase involvement in technical workgroups
- Increase cross-PNAMP workgroup and interaction with outside groups
- Support new coordination needs: e.g., large rivers



# Contact and Information:

[www.reo.gov/PNAMP](http://www.reo.gov/PNAMP)

