

Overview of Strategic and Programmatic Level Guidance

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Overview of Topics

- Council Draft Monitoring, Evaluation, Research, and Reporting (MERR) Plan
- Draft Anadromous Salmonid Monitoring Strategy (ASMS), Skamania Workshop
- FCRPS BiOp
 - FCRPS BiOp RM&E Recommendations Report,
 - Metrics, Methods and Designs
 - Action Effectiveness
 - Data Management and Metadata

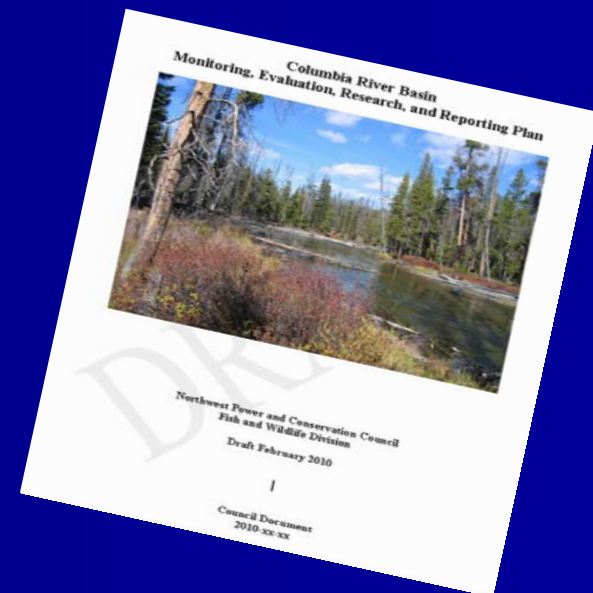
Council Draft Monitoring, Evaluation, Research, and Reporting (MERR) Plan & Draft Anadromous Salmonid Monitoring Strategy (ASMS), Skamania Workshop

Nancy Leonard

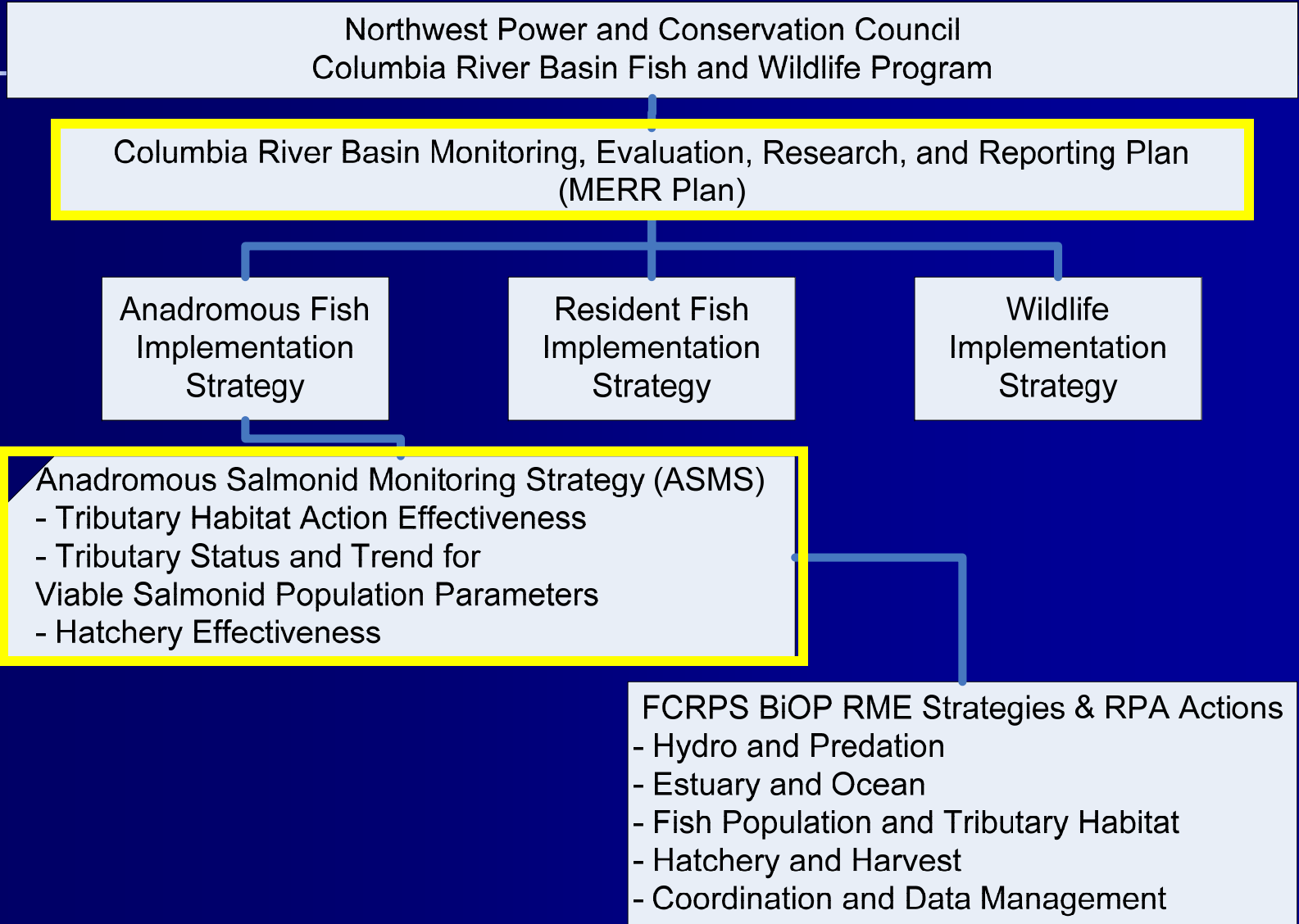
Fish, Wildlife, Ecosystem Monitoring & Evaluation Manager

Northwest Power and Conservation Council

March 2010



Relationship Between Draft MERR Plan & Draft ASMS



Draft MERR Plan Overview & Link to Your Proposal

Draft MERR Plan

Purpose

- Meets 2009 FW Program need
- To achieve Program RME & reporting that is conducted:
 - Efficiently
 - Integrated manner
 - Cost-effectively
- Provides Programmatic guidance on RME approach

Draft MERR Plan Overview & Link to Your Proposal

Draft MERR Plan

Strategic Plan

Guides

Implementation Framework

Guides

Implementation Strategies

Guides

RME Data Collection

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Your Proposal and MERR

- March draft version can be cited for proposals
- Refer to broad concepts such as:
 - Council 9 management questions,
 - Council HLIs,
 - Research and monitoring approaches
 - Collaborative approach to monitoring
 - Data sharing & accessibility

Relationship Between Draft MERR Plan & Draft ASMS

Northwest Power and Conservation Council
Columbia River Basin Fish and Wildlife Program

Columbia River Basin Monitoring, Evaluation, Research, and Reporting Plan
(MERR Plan)

Anadromous Fish
Implementation
Strategy

Resident Fish
Implementation
Strategy

Wildlife
Implementation
Strategy

Anadromous Salmonid Monitoring Strategy (ASMS)

- Tributary Habitat Action Effectiveness
- Tributary Status and Trend for Viable Salmonid Population Parameters
- Hatchery Effectiveness

FCRPS BiOP RME Strategies & RPA Actions

- Hydro and Predation
- Estuary and Ocean
- Fish Population and Tributary Habitat
- Hatchery and Harvest
- Coordination and Data Management

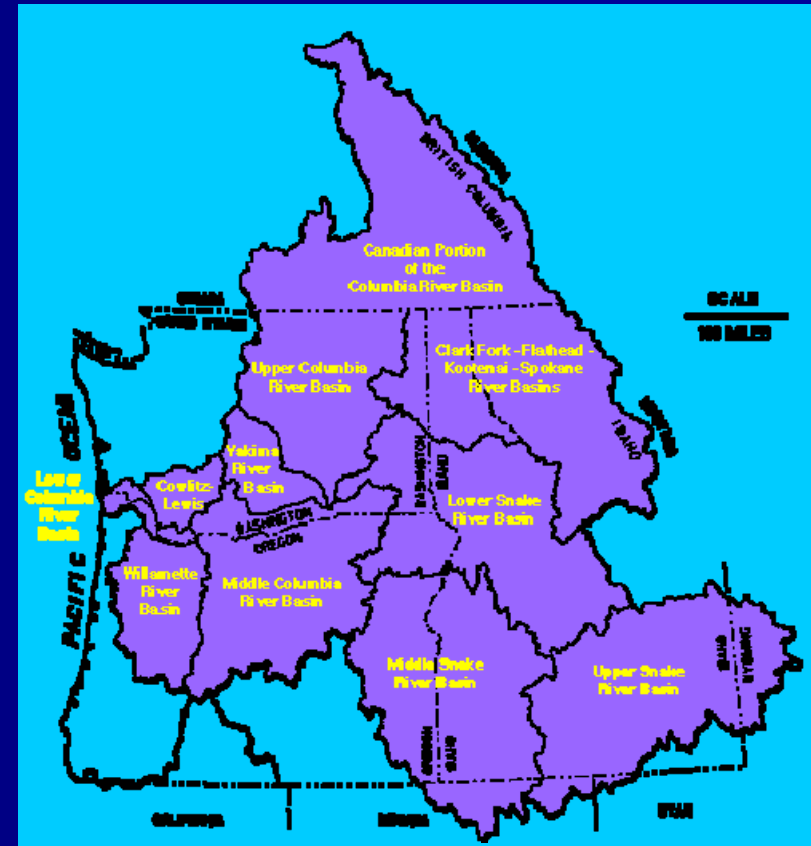
Anadromous Salmonid Monitoring Strategy (ASMS)

Purpose:

- Reach agreement among participants on an efficient and effective framework and project specific implementation strategy for anadromous salmon and steelhead monitoring to assess
 - Viable Salmonid Population (VSP) parameters,
 - Tributary habitat effectiveness and
 - Hatchery effectiveness in the Columbia Basin.
- Address the needs of the Program, meet the needs of the FCRPS BiOp , and contribute to needs of ESA recovery planning

Development of Anadromous Salmonid Monitoring Strategy (ASMS)

- 4 subregional workshops to gather monitoring strategy from each region
 1. Upper Columbia River Basin
 2. Middle Columbia River Basin
 3. Snake River Basin
 4. Lower Columbia River Basin
- Basinwide strategy developed through a regional workshop
 - Convened by BPA, CBFWA, NOAA and NPCC
 - Oct 20-21 & Nov 3-5, 2009 Skamania, Washington
- Identified new and expanded work for FCRPS BiOp
 - VSP
 - Habitat Action Effectiveness
 - Hatchery Effectiveness



ASMS & Your Proposals

Draft ASMS

- Reference May 2010 Draft ASMS Document and Final RME tables
 - <http://www.cbfwa.org/ams/FinalDocs.cfm>
- June/July Draft ASMS document will be revised pending workshop participants comments & then undergo ISRP review

Points to Consider for RME+ Categorical Review

- FCRPS BiOp Gaps and Non BiOp Recovery Need
 - Fast track projects need to update proposal to identify metrics, methods, designs and databases
 - Non-BiOp High Priority work
- ESA Permits
 - Status? , Concerns?

Linking Your Proposal to

2009 Program, MERR, ASMS, & Other Regional Products (links to documents also available on cbfish.org)

As relevant, link proposal to

- 2009 FW Program
 - <http://www.nwcouncil.org/library/2009/2009-09/Default.asp>
- Subbasin Plan
 - <http://www.nwcouncil.org/fw/subbasinplanning/default.htm>
- Draft Monitoring, Evaluation, Research and Reporting (MERR) Plan
 - <http://www.nwcouncil.org/library/2010/2010-04.htm>
- Draft Anadromous Salmonid Monitoring Strategy (ASMS) & Final Tables
 - <http://www.cbfwa.org/ams/FinalDocs.cfm>
- May 2010 draft of Recommendations for Implementing Research, Monitoring and Evaluation for the 2008 NOAA Fisheries FCRPS BiOp (RME Recommendations Report)
 - www.salmonrecovery.gov (previous draft, new draft posted soon)
- NOAA Monitoring guidance (June 2009, new draft available soon)
 - <http://www.nwcouncil.org/dropbox> folder Anadromous Monitoring Strategy 2009 / NOAA M&E Guidance

FCRPS BiOp RME Recommendations

Russell Scranton and Jim Geiselman

BPA

June 2010

Recommendations for Implementing Research, Monitoring and Evaluation for the 2008 NOAA Fisheries FCRPS BiOp - May 2010

- AA/NOAA/NPCC RM&E Workgroup Assessments Report
- RPA coverage assessments and recommendations
- List of Project's BiOp RPA Associations
- Additional background in BA RM&E Appendix B2

<http://www.salmonrecovery.gov/ResearchReportsPublications.aspx>

Report Table of Contents

- Introduction
- BiOp Workgroup Assessments:
 - Hydro and Predation
 - Estuary and Ocean
 - Tributary Habitat and Fish Population
 - Hatchery and Harvest
 - RM&E Coordination and Data Management
- Appendix A – RPAs and Projects

Proposal Guidance For Meeting RM&E BiOp Needs

- Categorical review serves need to review and improve the RM&E work needed for FCRPS BiOp requirements
- Proposal guidance, references, and support being provided for:
 - Project Implementation Metrics and BiOp RPA Linkages
 - Tributary Habitat Monitoring
 - Hatchery RM&E
 - Data Management

Project Attributes and BiOp RPA Linkages

- Project RM&E attributes are collected in the Taurus proposal forms and plan to be incorporated into Pisces
- Metrics, indicators and methods documentation facilitated by web based tool managed by Taurus and PNAMP
- Need to validate RPA associations to their projects and write clear deliverables to address any updated BiOp commitments or linkages
- Contact Russell Scranton, BPA

Tributary Habitat Status & Action Effectiveness

- Tributary Habitat Monitoring at the Watershed or Population Scale: Preliminary Recommendations for Standardized Fish Habitat Monitoring in the Columbia Basin (May 2010)
- Reach-Scale Effectiveness Monitoring Protocols (revised 2008)
- Evaluation of Effectiveness Monitoring Projects Draft v3.0 – March 2009.
- Draft Effectiveness Monitoring Inventory Analysis – Preliminary Results, Tetra Tech EC, Inc. May 14th, 2010

Tributary Habitat Status & Action Effectiveness

- Integrating Aquatic Ecosystem and Fish Status and Trend Monitoring in the Lower Columbia River: Using the Master Sample Concept
- Monitoring Stream and Watershed Restoration - By Philip Roni, Ed Quimby, American Fisheries Society., 2005 (Published Book)
- PNAMP Web Page has other reference material

Hatchery RM&E

- Recommendations of the *Ad Hoc* Supplementation Monitoring and Evaluation Workgroup, Beasley et al. (2008)
- Recommendations of the Hatchery Supplementation Review Groups (2004 and 2009)
- The precision and accuracy of the estimates of proportion of hatchery-origin escapement Hinrichsen and Sharma 2010

Technical Support for Habitat and Hatchery RM&E

- BPA Technical support for Study designs contractors BioAnalyst, Tetra Tech, Stat Net and other firms.
- BPA help create appropriate GRTS Design after Proposal development but before Implementation
- www.OneFishTwoFish.net – Web based tool for assessing the effects of sampling rate, marking rate, and population size on the statistical precision of hatchery and natural escapement estimates, and to facilitate the design of BACI (Before-After Control-Impact) type experiments
- Contacts: Jim Geiselman for Habitat and Jeff Gislason for Hatchery

Data Management

- Metadata documentation needed
- Identify where data is stored and managed
- Considerations for Regional Data Collection, Sharing and Exchange (Schmidt, B., ed., 2009)
- Regional Guidance on Metadata for Environmental Data (Rentmeester, S., ed., 2010)
- PNAMP's Methods and Metrics Catalogue
- Best Practices for Reporting Location and Time Related Data (NED, 2007)
- Best Practices for Data Dictionary Definitions and Usage (NED, 2006)
- Check List for Organizing Field Collection and Management of Data (NED, 2006)
- Contact: Russell Scranton, BPA