

The questions asked by the SRFB can be summarized as follows:

- Is the SRFB funding the correct monitoring programs?
 - Are there gaps?
 - Are there things that no longer need to be monitored?
- Is the funding allocation among monitoring programs correct?
- Have we learned enough to revise or update technical design, sampling details, or general monitoring program details?
- Can we improve the timing of funding cycles, avoid last-minute requests, and improve stability of long-term programs?

The Forum convened a workgroup to review SRFB monitoring programs and investments. The workgroup met several times, and provided interim recommendations to both the Forum and SRFB. This report provides final recommendations from the Forum. These recommendations are based on the Forum's consideration of the workgroup's overall findings, as discussed at the September 11, 2009 meeting of the Forum.

Analysis

In reviewing the SRFB monitoring programs, the Forum considered the following criteria:

- Do the investments meet the monitoring objectives of the SRFB?
- Are the investments consistent with the Comprehensive Monitoring Strategy and the Forum Framework?
- Are the investments the right size or do individual elements need to be "right-sized"?
 - Statistical power
 - Are these still good investments?
 - Threshold of diminishing returns
- Are there ways to improve coordination and alignment between and among monitoring programs, including those implemented by federal and local agencies?

The Forum recommendations can be divided into two lists: 1) existing monitoring, and 2) potential new monitoring elements. Within those lists, the Forum considered six monitoring categories: Implementation; Project Effectiveness; Intensively Monitored Watersheds; Status and Trends; Nearshore; and Data Management.

The following table summarizes the Forum's funding recommendation; details for each item are in the text below.

Monitoring Program	2008 Allocation	2009 Recommended Allocation
Existing Monitoring Programs		
<i>Implementation Monitoring</i>	\$75,000	\$75,000
<i>Effectiveness Monitoring</i>	\$550,000	\$434,000
<i>Intensively Monitored Watersheds</i>	\$1,467,000	\$1,467,000
<i>Status and Trends (Fish-in / Fish-out) Monitoring</i>	\$208,000	\$208,000
<i>Nearshore Monitoring</i>	\$50,000	
SUBTOTAL, EXISTING	\$2,350,000	\$2,184,000
Savings Plus Remaining Unallocated Monitoring Funds		\$466,000
Proposed New Monitoring Elements		
<i>#6: Effectiveness monitoring web reporting and data migration</i>		\$35,000
<i>#7: Statewide strategy for effectiveness monitoring</i>		\$50,000
<i>#8: IMW workshop</i>		No Cost
<i>#9: Watershed-scale land-use/land-cover (habitat remote sensing)</i>		\$100,000 (est)
<i>#10: Provide web access to habitat status and trends database</i>		\$140,000
<i>#11A: Add adult salmon to smolt data exchange</i>		\$100,000 (est)
SUBTOTAL, NEW		\$425,000
Remaining Unallocated Monitoring Funds ¹		\$41,000
TOTAL (ALLOCATED PLUS UNALLOCATED)	\$2,350,000	\$2,650,000

Existing Monitoring Program: Findings and Recommendations

1. No single monitoring program is capable of answering all of the questions relevant to salmon recovery. A mix of monitoring approaches is required.
2. The SRFB's current mix of monitoring programs represents "core" monitoring elements and is appropriate, although some gaps remain.
 - a. The SRFB can improve the timing of funding cycles and the stability of long-term programs by extending annual contracts to 18 months or more to allow for start-up, field preparation, sampling, data evaluation, and reporting.
3. Three of the core monitoring programs – implementation monitoring, effectiveness monitoring, and intensively monitored watersheds – are budgeted at levels commensurate with their objectives and scales, and should continue to receive SRFB funding, with some caveats.

¹ Some of the initial estimates were lower than anticipated, so the total allocation is not yet \$2.65 million. Staff will discuss options for addressing this variance at the October SRFB meeting.

- a. **Implementation Monitoring.** Implementation monitoring is included as part of the RCO's administrative costs. This element allows grant managers to do final inspections and project completion reporting for SRFB-funded restoration projects. It is budgeted at a level commensurate with RCO's costs. The Forum recommends keeping implementation monitoring funded at the current level.
- b. **Effectiveness Monitoring.** The Forum recommends that the SRFB continue to fund the current effectiveness monitoring program at the current level, but to incorporate a number of technical and design changes into the contract.

The current effectiveness monitoring program is implemented through a competitively bid contract managed by RCO. As recommended by the contractor (TetraTech) in the five-year report published in April 2009, some cost savings could be realized in the current program by dropping several project categories for which sufficient information has now been collected. The Forum also recommends incorporating the other technical recommendations included in the five-year report, which would result in a number of technical and design improvements, gradually reducing field sampling as the original project schedule is completed over the next several years (to 2017), and some overall cost savings in the current contract.

- c. **Intensively Monitored Watersheds.** The intensively monitored watersheds program is the most expensive monitoring program funded by the SRFB, but it is the only program capable of answering the fundamental question of whether habitat restoration results in increased production of salmon. However, the IMW monitoring design can only be successful in watersheds that complete the requisite restoration treatments. That is, the monitoring program will be successful *only* if the treatment plans associated with the monitoring design are implemented in the SRFB-funded IMW watersheds. The SRFB should evaluate and confirm that treatment efforts will be completed in concert with the IMW monitoring program. If not, the SRFB should consider either terminating the IMW monitoring contract or deciding how to fund the necessary restoration treatments. Intensive monitoring may not be cost-effective in watersheds that do not complete their restoration treatment plans in a timely way. The Forum recommends that the SRFB fund the current IMW monitoring through the coming field season (2010), while simultaneously evaluating whether to continue or terminate some of the IMW monitoring efforts for the following field season (2011).
4. **Fish-in/Fish-out Monitoring.** The fourth monitoring element supported by the SRFB (fish-in/fish-out) represents a reasonable contribution to the Washington Department of Fish and Wildlife (WDFW) overall fish-in/fish-out monitoring program. That program depends on funds collected from a variety of sources, none of which has the capacity to support the entire program. Currently, the SRFB contributes approximately 7% of the total WDFW fish-in/fish-out monitoring. The data obtained through this program are fundamental to salmon recovery. Participating in the funding of this program is consistent with the Comprehensive Monitoring Strategy and the data itself supports the Forum's Framework and high-level indicators for salmon recovery. The Forum recommends the SRFB continue its contribution to this program.
 5. **Nearshore Monitoring.** The fifth program, nearshore monitoring, is not currently implemented but has been proposed by the SRFB for several years in recognition of the importance of nearshore habitats in the salmon lifecycle. The SRFB has reserved, but not awarded, \$50,000 in 2008 PCSRF funds for implementing a nearshore monitoring element. A proposal to develop nearshore/estuarine Rapid Assessment Protocols is part of the SRFB agenda in October 2009

and will be presented by the Estuary and Salmon Recovery Program (ESRP). The Forum supports allocating \$50,000 from the previously reserved 2008 funds in support of ESRP's proposal to develop a River Delta Tidal Wetlands Rapid Assessment Protocol.

New Monitoring Elements: Recommendations for use of available Monitoring Funds

The Forum believes that several additional monitoring elements merit consideration by the SRFB. The first three elements should be initiated in the near term, using savings noted above and \$50,000 from available monitoring funds. The remainder of the elements (#9 through #11) need further staff work to scope, cost, and prioritize the efforts within the remaining SRFB monitoring budget. If acceptable, Forum staff will bring more specific costs and priorities for items #9 through #11 to the December SRFB meeting for further discussion and decision.

6. **Improve the effectiveness monitoring program** (using savings noted above) as follows:
 - a. Develop web-based reports and improve outreach to local project sponsors; and
 - b. Migrate the effectiveness monitoring data to a state-owned database.
7. **Develop a statewide strategy for effectiveness monitoring** The Forum recommends collaborating with other agencies currently supporting or interested in effectiveness monitoring to: leverage additional resources, increase sample sizes and statistical confidence, and to provide additional incentive for agencies to align protocols and improve data sharing and data access. This collaboration needs to include scoping a broader, statewide effectiveness monitoring strategy *with* other regional agencies² also interested in effectiveness monitoring. The Forum is willing to lead this effort if the SRFB so requests, but suggests that the SRFB budget up to \$50,000 for one-time consulting support. The product of this effort would be a re-scoped, statewide effectiveness monitoring program funded through several collaborating agencies including the SRFB.
8. **Host an IMW workshop** to improve coordination and communication across all IMWs currently being implemented in the state.
9. **Watershed-scale land-use/land-cover (habitat remote sensing program)**. This status and trends monitoring element is described in the Forum framework and has been a priority for several years. WDFW has proposed a remote-sensing monitoring program to obtain this information through a combination of satellite (Landsat) photography and low-level aerial photography. Work needs to be done to develop the scope and costs of developing this monitoring program.
10. **Provide web access to the in-stream habitat status and trends database**. The SRFB funded the original status and trends framework proposal and the current Quality Assurance Monitoring Plan. This program is being implemented in the Puget Sound basin, and is expected to receive on-going state funding to allow a four-year rotation through all eight salmon recovery regions statewide. Assuming funding remains secure for on-going implementation, the forum workgroup discussed a one-time contribution to make the data management system easily available as a web application for local cooperating partners. This would significantly improve local organizations' access to the database and make their participation and contributions to the

² Agencies could include Northwest Power Conservation Council, Bonneville Power Administration, tribes, Oregon Department of Fish and Wildlife, and others.

statewide monitoring program significantly easier and more likely. Work needs to be done to develop the scope and costs of developing this web access.

11. **Data management.** The Forum believes that data management is a required element of any comprehensive monitoring program, but cautions against taking on any large, statewide or regional data management strategic development efforts. Instead, the Forum listed the following data management elements that represent logical and helpful “next-steps” to improve data sharing and data accessibility among all participating agencies as priorities for the use of SRFB funding:
- a. Add adult salmon data to the juvenile salmonid data exchange network currently under development by the Puget Sound Partnership, WDFW, NWIFC, Ecology, and RCO;
 - b. Enable Web access to the status and trends database (described in #10); and
 - c. Migrate the effectiveness monitoring data to a state database (described in #6b, above).

Work needs to be done to develop the scope and costs of developing this data management component.

Next Steps

Staff will review these recommendations at the SRFB’s October meeting. After board discussion and public comment, staff will ask the SRFB to consider the following:

- Approve funding and contract extensions for effectiveness monitoring, intensively monitored watersheds, and fish-in/fish-out monitoring;
- Approve spending up to \$50,000 to support the ESRP nearshore monitoring proposal; and
- Approve potential new monitoring program additions #6 through #8 as recommended by the Forum.

If approved, these actions would allocate \$2.319 million of the current monitoring budget. Forum staff will bring more specific costs and priorities for items #9 through #11 to the December SRFB meeting for further discussion and decision.

If the SRFB agrees with the recommendations from staff and the Forum, the monitoring budget for the 2009 PCSRF funds would be \$2.65 million, as shown on the following table.

MONITORING PROGRAM	2009 ALLOCATION
Implementation Monitoring	
Existing contract extension	\$75,000
Effectiveness Monitoring	
A. Contract with TetraTech	\$469,000
<i>Existing contract extension</i>	\$434,000
<i>New Element #6a: Web-based reports</i>	\$21,000
<i>New Element #6b: Migrate effectiveness monitoring data</i>	\$14,000
B. New Element #7: Effectiveness monitoring strategy	\$50,000
Intensively Monitored Watersheds	
Existing contract extension	\$1,467,000
New Element #8: IMW workshop	No cost
Status and Trends Monitoring: Fish-in/Fish-out	
Existing Contract Extension	\$208,000
New Element #9: Watershed-scale land-use/cover	Est. \$100,000
New Element #10: Web-access for status and trends database	\$140,000
Nearshore Monitoring	
Carry forward of 2008 funds (\$50,000)	
Data Management	
New Element #11A: Add adult salmon to smolt data exchange	Est. \$100,000
Remaining Unallocated Monitoring Funds	\$41,000
TOTAL	\$2,650,000

Attachments

- A. Forum recommendations presentation

SRFB/Forum Monitoring Review

Presented by Ken Dzinbal
October 2009

Review Questions for Forum:

- Is the SRFB funding the correct monitoring programs?
 - Are there gaps?
 - Are there things that no longer need to be monitored?
- Is the funding allocation among monitoring programs correct?
- Have we learned enough to revise or update technical design, sampling details, or general monitoring program details?
- Can we improve the timing of funding cycles, avoid last-minute requests, and improve stability of long-term programs?

Different Types of Monitoring Address Different Questions

Implementation Monitoring

- Were funded projects completed as planned?

Effectiveness Monitoring

- Do habitat restoration projects work?
- Can we actually improve fish habitat?

IMW Monitoring

- Does habitat restoration actually increase fish production and abundance?

Status & Trends

- What is the current condition, or trends?
 - at targeted sites
 - for streams or watersheds generally (based on random, representative samples)

Forum Recommendations to SRFB

Important Monitoring Categories:

- *Implementation Monitoring
- *Project Effectiveness Monitoring
- *Intensively Monitored Watersheds
- Status and Trends Monitoring
 - *fish
 - habitat
 - water quality
- Nearshore / Marine Restoration Monitoring
- Data Management



Distribution of Monitoring Funds, 2008

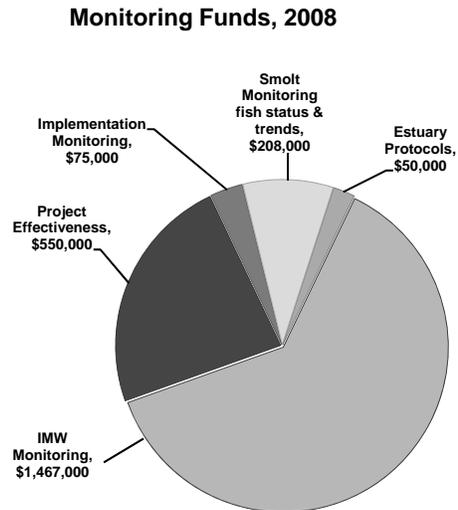
- Funding level based on PCSRF requirement for “a minimum of 10% of budget for monitoring”

— Total 2008 PCSRF= \$23.5 million

- Monitoring 10% = \$2.35 million

— Total 2009 PCSRF = \$26.5 million

- Monitoring 10% = \$2.65 million
- Increased over 2008 of \$300,000



Implementation Monitoring

Important Monitoring Categories:

- *Implementation Monitoring
- *Project Effectiveness Monitoring
- *Intensively Monitored Watersheds
- Status and Trends Monitoring
 - *fish
 - habitat
 - water quality
- Nearshore / Marine Monitoring
- Data Management

*Currently funded by SRFB

Implementation Monitoring

- SRFB currently dedicates \$75,000 to implementation Monitoring
- This funds project final inspection and reporting by RCO grant managers to assure each project was completed as planned

Recommendation from Forum:

- Continue project implementation monitoring for PCSRF funded projects with 2009 funds

Project Effectiveness Monitoring

Important Monitoring Categories:

- *Implementation Monitoring
- *Project Effectiveness Monitoring
- *Intensively Monitored Watersheds
- Status and Trends Monitoring
 - *fish
 - habitat and water quality
- Nearshore / Marine Monitoring
- Data Management



*Currently funded by SRFB

Project Effectiveness Monitoring

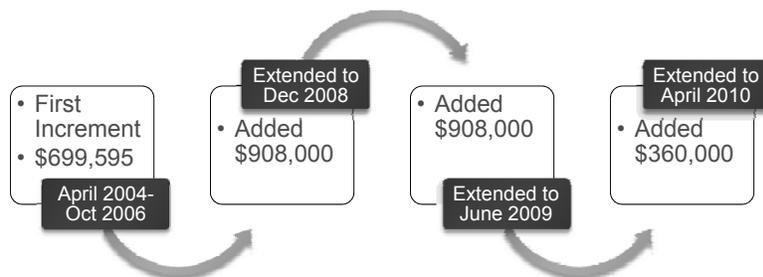
- SRFB currently dedicates \$550,000 to Project Effectiveness Monitoring.
- This monitoring is conducted by contract with Tetra Tech
 - Coordinated program to independently evaluate the success of funded projects
 - Repeatable, standardized approach
 - Evaluates the cost-effectiveness of different project categories
 - Provides accountability for expenditures
 - Results can be used to improve the design of future projects

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Project Effectiveness Monitoring

- Originally planned as a 12 year project.
 - Just completed year 5
- Certain project categories/variables were understood to have response times of 5-10 years or longer



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Project Categories

Fish Passage

In-Stream
Structures

Riparian Plantings

Livestock
Exclusions

Constrained
Channels

Channel
Connectivity

Spawning Gravel

Diversion
Screening

Habitat Protection

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Project Effectiveness Monitoring: Results

- Five Years of Data Collection
 - Conclusions for some categories – no further monitoring required
 - Need larger sample sizes in some others
 - Should make data and results more easily available to help project sponsors improve project design and implementation
- Cost effectiveness analysis
 - Identifies projects that provide the greatest results for the least cost
 - Can help prioritize funding for project sponsors
- Coordination and cost savings via partnership with Oregon
 - Could be achieved with other agencies with additional coordination

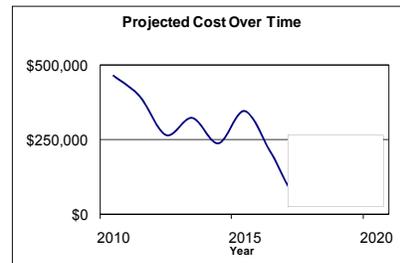
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Project Effectiveness Monitoring

Forum Recommendations:

- 1) Stay the course, with some adjustments to current contract
 - Discontinue monitoring in 3 project categories
 - Combine project categories to increase sample size
 - Implement Tetra Tech 5-year review recommendations
- 2) Finish out original project schedule and sampling matrix
 - Costs fluctuate up and down with sampling schedule until 2017
- 3) Improve adaptive management out-reach to project sponsors and lead entities
 - Web-based project category summaries with results and outcomes
 - Interactive map of project-specific data by location



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Effectiveness Monitoring Recommendations

- 4) Forum should develop a statewide (multi-agency) approach to effectiveness monitoring
 - Partner with other agencies to increase sample sizes in key project categories
 - Align protocols where possible
 - Align project effectiveness sites with fish-in/fish-out sampling where possible
 - Will need contractor support to help compile information
- 5) Migrate reach-scale effectiveness monitoring data to an existing state database
 - Data should be web-accessible



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Intensively Monitored Watersheds

Important Monitoring Categories:

- *Implementation Monitoring
- *Project Effectiveness Monitoring
- *Intensively Monitored Watersheds
- Status and Trends Monitoring
 - *fish
 - habitat and water quality
- Nearshore / Marine Monitoring
- Data Management



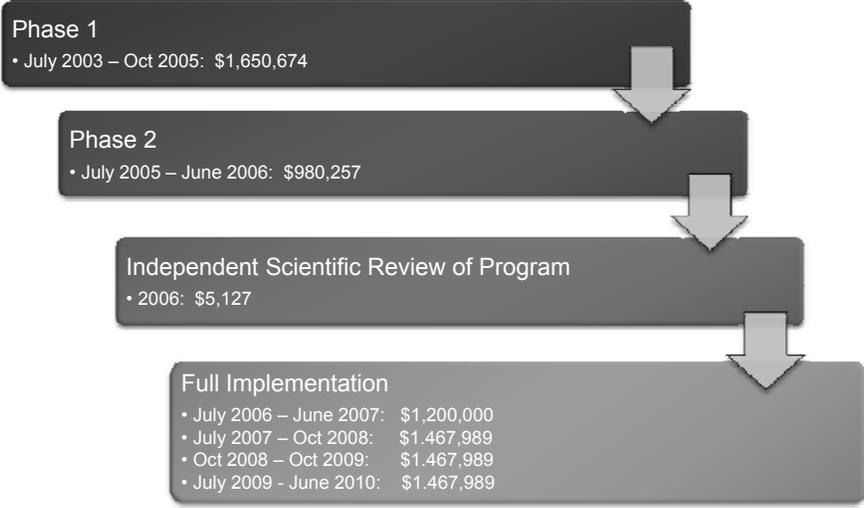
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IMW Monitoring Questions

- This is the only type of monitoring that tells whether restoration efforts result in more salmon.
- Key Questions:
 - Does habitat restoration produce more fish?
 - Can we identify the most effective restoration efforts?
 - What are the actual cause-effect relationships between habitat restoration and fish production?

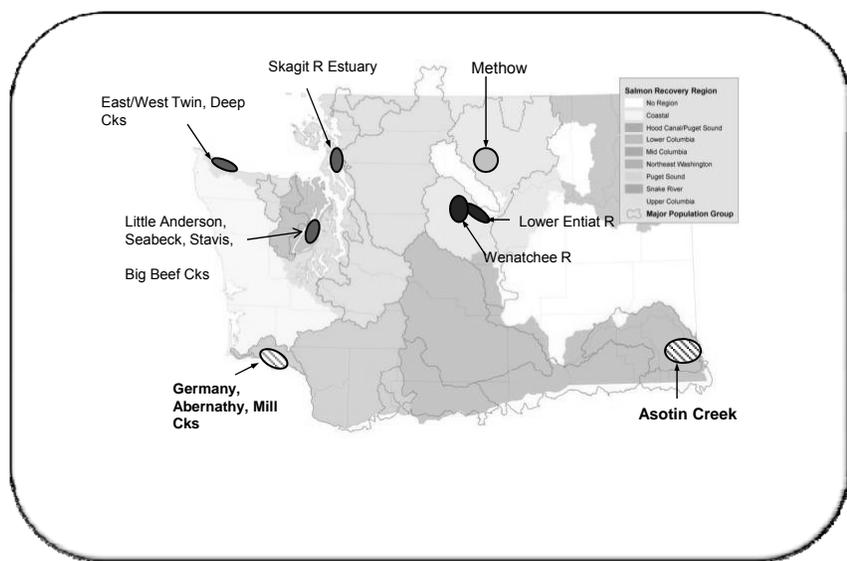
IMW Monitoring

- SRFB's IMW History
 - Monitoring plan calls for 10 year program duration



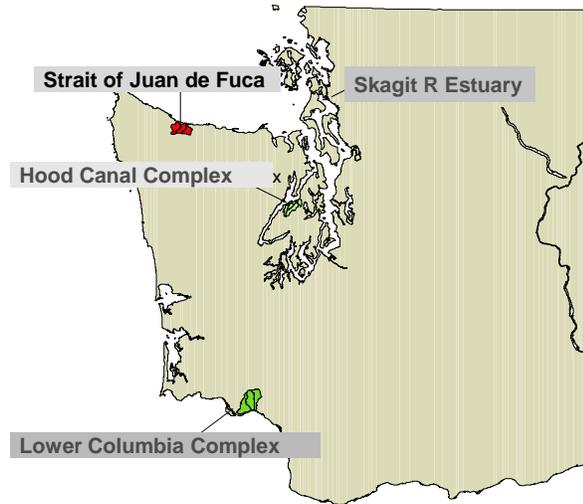
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Washington IMWs



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SRFB-funded IMWs



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IMW Monitoring: Findings

- The IMW questions are consistent with the Comprehensive Monitoring Strategy and remain a high priority.
- The IMW Program as currently designed is capable of assessing fish population response to restoration at the watershed scale
- Policy-level help is needed to ensure local watersheds can support and implement the IMW treatment plans
- The recommendations offered by the ISP in 2006 remain relevant and should be revisited

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IMW Monitoring Recommendations

Forum's Recommendations:

- 1) Stay the course with current program in the short term
 - Complete 2010 field season including data assessment and reporting
- 2) SRFB needs to determine whether this is an area in which to continue investing:
 - Are projects being proposed to meet the IMW plan?
 - If not, why not?
 - What is necessary to get lead entities to propose projects in IMW treatment watersheds?
 - Funding for restoration in IMWs doesn't always support the IMW treatment plans, compromising the value of IMW monitoring.
- 3) Connect IMW Monitoring staff with lead entities and regions to improve implementation of IMWs
 - May need policy support from SRFB for that relationship.

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IMW Monitoring Recommendations

- 4) The Forum can assist the SRFB in improving the IMW program and in assessing whether to continue funding
 - Forum can help improve coordination between SRFB-funded IMW's and other IMW studies in the Pacific NW
 - Forum can scope and host a state-wide IMW workshop
 - Forum can help develop procedures to resolve site-specific impediments to IMW success, as they emerge
 - Forum can provide a mechanism for reviewing adjustments to the IMW program

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IMW Monitoring Recommendations

- 5) Other IMW improvements:
- Compare IMW protocols and data management with those used for Status & Trends, and Project Effectiveness
 - Improve coordination between IMW efforts and Project Effectiveness Monitoring
 - Evaluate opportunities to include IMW restoration projects in the Project Effectiveness sampling pool



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Status & Trends Monitoring

Important Monitoring Categories:

- *Implementation Monitoring
- *Project Effectiveness Monitoring
- *IMW Monitoring
- Status and Trends Monitoring
 - *fish
 - habitat and water quality
- Nearshore / Marine Monitoring
- Data Management



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Status & Trends Monitoring – Fish-in / Fish-out

- The SRFB currently contributes \$208,000 to WDFW's fish-in/fish-out monitoring.
 - This is XX% of the total fish-in/fish-out program.



- The current SRFB funded program monitors adult spawners and juvenile out migrants in four watersheds



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Status & Trends Monitoring Recommendations

Forum Recommendations:

- 1) Continue contribution to fish-in/fish-out monitoring
- 2) There are several gaps in status and trends monitoring that the Forum recommends the SRFB consider funding:
 - Support development of a habitat/landscape remote sensing program
 - Help local and regional organizations use the Status & Trends (Ecology) monitoring framework, database, and “tool kit” of standard protocols, training, field forms, etc.

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Nearshore / Marine Monitoring

Important Monitoring Categories:

- *Implementation Monitoring
- *Project Effectiveness Monitoring
- *IMW Monitoring
- Status and Trends Monitoring
 - *fish
 - habitat and water quality
- **Nearshore / Marine Monitoring**
- Data Management



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Nearshore Monitoring Recommendations

- The SRFB has been interested in monitoring the effectiveness of funded nearshore projects.
- SRFB held \$50,000 in 2008 for developing nearshore monitoring protocols

Forum Recommends:

- Dedicate the \$50,000 set-aside for the development of a nearshore monitoring approach and protocols
 - Formal presentation on this proposal later on the agenda

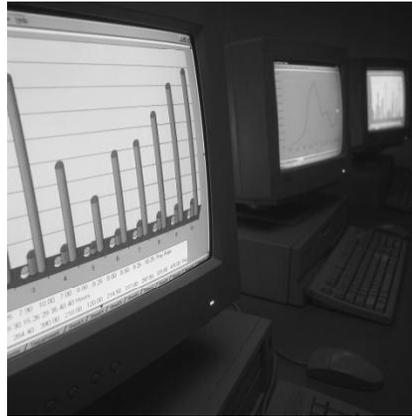
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Data Management

Important Monitoring Categories:

- *Implementation Monitoring
- *Project Effectiveness Monitoring
- *IMW Monitoring
- Status and Trends Monitoring
 - *fish
 - habitat and water quality
- Nearshore / Marine Monitoring
- Data Management



*Currently funded by SRFB

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Data Management Recommendations

Forum Recommends

- 1) Build on success of Water Quality and smolt data exchanges
 - Don't over-reach on statewide data management strategies
 - Add adult salmon to smolt data exchange network
 - Support state proposals to consolidate agency GIS layers
 - Support Status & Trends database web interface
 - Support effectiveness monitoring data archive and migration (consider aligning with Status and Trends data mgmt system)

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SRFB/Forum Monitoring Review

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SRFB/Forum Monitoring Review

- Is the SRFB funding the correct programs? **Yes**
 - Currently funded programs address core monitoring questions
- Are there gaps? **Yes**
 - Habitat status & trends (especially landscape-scale)
 - Nearshore – awaiting proposal
 - Data mgt – address next steps; caution against over-reaching

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SRFB/Forum Monitoring Review

- Is the funding allocation among programs correct?
 - Implementation monitoring
 - RCO costs
 - IMW monitoring
 - “right-sized” for current program scope
 - Need to address whether projects are being implemented as planned in each IMW and if not, what to do about it
 - Project effectiveness
 - Incorporate technical and design recommendations
 - Build statewide strategy for effectiveness monitoring
 - Re-scope for 2010 (and beyond?)
 - Develop web tools for outreach (adaptive management)

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SRFB/Forum Monitoring Review

- Is the funding allocation among programs correct?
 - Status and trends
 - SRFB contributes a small amount to fish-in / fish-out
 - Need support for watershed-scale remote sensing
 - Need to make database and “tool-kit” easily available to local partners
 - Nearshore monitoring
 - Awaiting proposal
 - Data management
 - Don't over-reach on statewide strategy
 - Address next steps: adult salmonid data exchange

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SRFB/Forum Monitoring Review

- Have we learned enough to revise or update technical design, sampling details, or general program details? **Yes**
 - Technical and design recommendations for project effectiveness
 - Policy & coordination recommendations for IMWs
 - “Tool kit” recommendations for status & trends
 - Coordinate and align sampling frames, protocols, metrics, data mgt systems, and reporting across all monitoring programs

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SRFB/Forum Monitoring Review

- Can we improve the timing of funding cycles, avoid last-minute requests, and improve stability of long-term programs? **Yes**
 - Annual contracts should extend out 18 months or more to allow for start-up, field prep, sampling, data evaluation, and reporting
 - 2010 field sampling contract timeframe: Oct 2009 – April 2011

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Recommended Funding Levels (on-going)

	Current 2008	Proposed 2009
Implementation	\$75,000	\$75,000
Project Effectiveness	\$550,000	\$434,000
IMW's	\$1,467,000	\$1,467,000
Fish-in / fish-out	\$208,000	\$208,000
Nearshore	\$50,000	
Total	\$2,350,000	\$2,184,000
Projected savings		\$166,000
2009 PCSRF increment (projected)		\$300,000
Total (estimated) unallocated		\$466,000

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Recommended Funding Levels (new)

	Proposed 2009
2009 Projected unallocated	\$466,000
Nearshore (\$50K from 2008)	
IMW Workshop	No cost
Effectiveness monitoring web reporting	\$21,000
Effectiveness monitoring data migration	\$14,000
Forum effect monitoring statewide strategy (contract)	\$50,000
Status & Trends database web interface	\$140,000
Habitat remote sensing substantive demo*	\$100,000 <i>rough est.</i>
Add adult salmon to smolt data exchange*	\$100,000 <i>rough est.</i>

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* Scope for December meeting

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