

W. Bill Booth  
Chair  
Idaho

James A. Yost  
Idaho

Tom Karier  
Washington

Dick Wallace  
Washington



Bruce A. Measure  
Vice-Chair  
Montana

Rhonda Whiting  
Montana

Melinda S. Eden  
Oregon

Joan M. Dukes  
Oregon

April 3, 2008

## DECISION MEMORANDUM

**TO:** Council members

**FROM:** Staff

**SUBJECT:** Council decision on the project review process

**PROPOSED ACTION:** Staff request that the Council approve beginning the planning phase for categorical review of wildlife projects in April 2008, based on the sequence and steps for project review proposed by staff in attachments to this memorandum.

**SIGNIFICANCE:** The proposed process for reviewing projects is different than the Council has conducted in the past and is intended to set us on a path of consistency, accountability and predictability. The process recognizes differences in project types, specifically those with long-term commitments vs. shorter-term implementation. Each type may be set on different, but integrated, funding and review paths. Like the rolling provincial reviews, the project review is sequenced over time. This process would begin in April with the planning for the first category review for wildlife projects and will continue for years as we cycle through iterations of the process. The process is structured to allow flexibility to adjust to changes as needed to accommodate other regional processes and priorities such as BPA's ESA requirements and relevant agreements.

**BUDGETARY/ECONOMIC IMPACTS:** Staff time for work on the project review process is included in the Fish and Wildlife Division work plan for 2008. Staff anticipates some increased costs associated with meeting room space and travel; however, those costs have been anticipated and can be absorbed in our current budget.

**BACKGROUND:** Staff presented the basic structure of the process at the March 2008 meeting. In the ongoing effort to refine the process and sort details; and in particular to address Council members' questions, staff have prepared and attached an updated document that describes the process in much greater detail. The overall structure and sequence have not changed, but you will find more clarity on decision points, budgets, process steps, roles of entities who need to be involved, and a real example of how projects within a geographic area will be handled in a local

review. The overarching principles - presented at two previous meetings - have provided the framework for developing this process.

**ANALYSIS:** Approval to begin the process of reviews in April will set the Council and the region on a review path over the next few years. The timeline that the work group has developed for the first iteration begins this month and extends through the winter of 2010-2011. The categorical review focuses on existing projects that are largely previous commitments. These projects also consist of the grouping of projects formerly referred to as mainstem/systemwide projects. The categorical review will consider cross-cutting issues unique to that category as well as project-specific issues. Staff anticipates setting many of these on a longer-term funding and review path. Once the categorical reviews are complete, the Council will have a clearer picture of program dollars that support long-term commitments across the basin.

## **ATTACHMENTS**

Attachment 1 – Project Review Process

Attachment 2 – Tabular list of projects by category

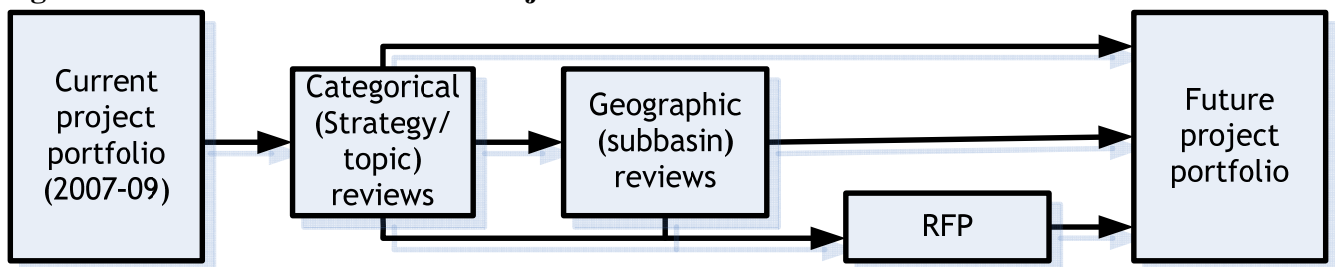
## Project Review Process

The proposed approach for project review accommodates long-term commitments, basin-wide projects, and projects that support subbasin plan implementation priorities. Historically, Bonneville and the Council have initiated project funding cycles by undertaking a broad project solicitation that attempts to treat all projects as new discretionary work. However, a number of the projects in the Program are long-term in nature (e.g., hatchery O&M, wildlife habitat maintenance, and some RM&E efforts) or have a programmatic emphasis. This work could benefit from a different type of review that emphasizes past performance and a comparative analysis of like projects. Those projects account for over three-quarters of program funds. Additionally, the Council has adopted subbasin plans, which identify focal species and limiting factors that could be addressed through geographic and new project reviews. The proposed process will accommodate an appropriate review for all types of projects.

To accomplish this proposed review structure the current project portfolio will be reviewed and assembled to reflect projects that have some unifying relationship (i.e., categories) or are more specific to the needs of a particular subbasin and province (i.e., geographic). Through all phases of the categorical and geographical reviews Council and BPA staff will involve individuals from tribes, fish and wildlife agencies, recovery planning and subbasin planning groups, and others as appropriate for the projects, areas or topics under review. The categorical reviews then inform, and are integrated into, a geographic review (by subbasin and province), and targeted solicitations can be initiated during either review process when priority gaps are identified and funding is available (Figure 1). The categorical review will be used to evaluate and identify existing long-term commitments and provide information to the geographic review. Through the geographic reviews, we will gain an understanding of how long-term commitments (e.g., hatchery and land O&M) fit in a subbasin, and how projects in each subbasin relate to each other and to work undertaken outside of the Program. The geographic review will be structured very similarly to the rolling provincial reviews as described in the 2000 Fish and Wildlife Program.

This proposed process is responsive to the ISRP's recommendations.<sup>1</sup> As the ISRP has recommended, the process will be modeled after the sequential multi-year provincial reviews, with potential alterations to more efficiently address program needs through targeted and topical (wildlife O&M, systemwide RM&E, lamprey, and such) solicitations. Finally, as recommended by the ISRP, longer-term projects may be set on longer funding and review paths with periodic check-ins.

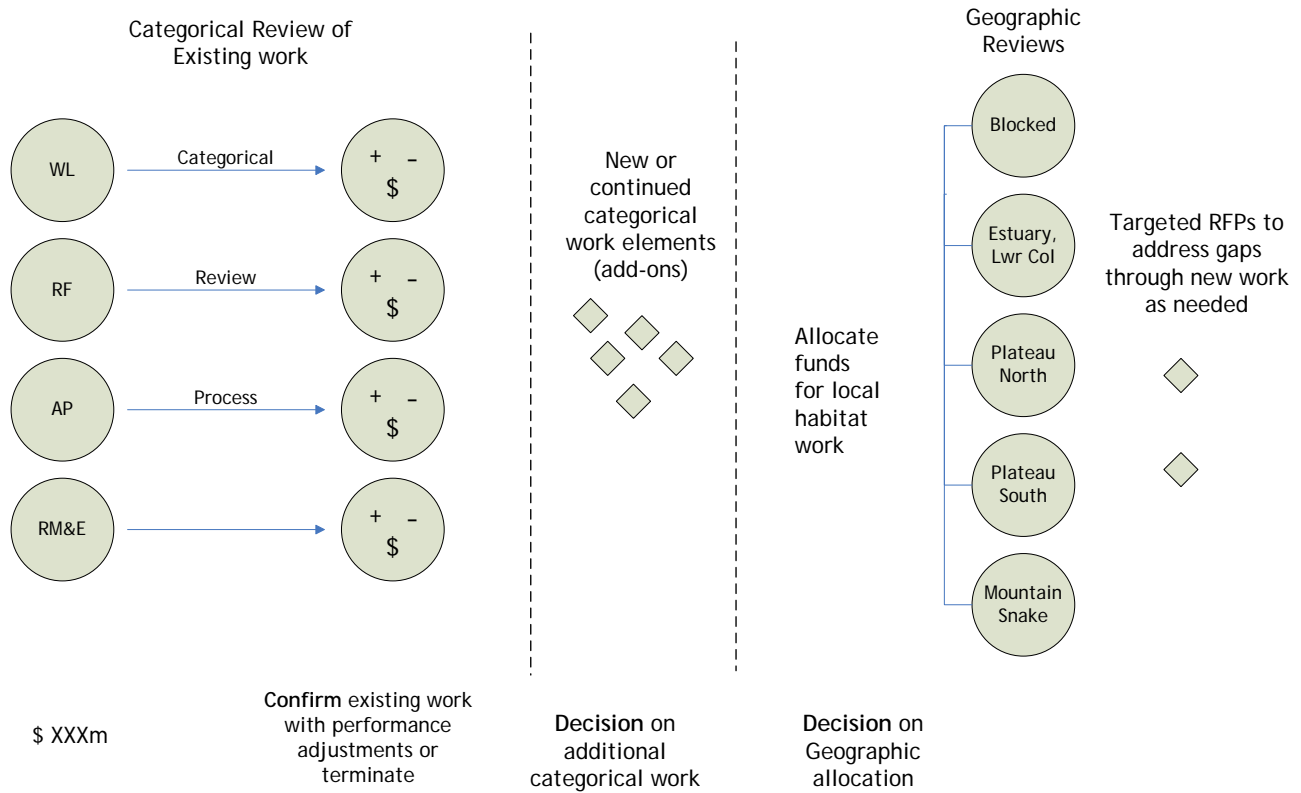
**Figure 1. General Flow for Future Project Reviews**



<sup>1</sup> ISRP Letter to the Council December 2006 (2006-7) [www.nwcouncil.org/library/isrp/isrp2006-7.htm](http://www.nwcouncil.org/library/isrp/isrp2006-7.htm)

The diagram below generally describes the process as it relates to decision points, budgets, and allocations for both new and existing work (Figure 2). The left side represents the categorical review process of long-term projects; and the right side set of circles represent the geographic review. The middle section generally represents the points at which the Council should consider making decisions on expanded/new categorical work relative to overall categorical savings and setting geographic allocations. We are making a distinction between *allocation* and *funding decision* in that an *allocation* is the act of declaring or setting aside funds for a group or groups of projects; whereas *funding decision* represents a Council action to fund specific projects.

**Figure 2. Process Diagram**



**Decision Options:**

- A. Fund new categorical work (add-ons) after *each* category review or after all category reviews are complete (and before geographic allocation is made).
- B. Fund new categorical work after setting an allocation for geographic reviews.
- C. Fund new categorical work *after both* category and geographic reviews are complete.

**Categorical Review and Budget**

The circles on the left represent the review categories and current funding levels for each. Once the categorical reviews are complete, **the staff recommends that the Council confirm the set of projects that will move forward by making necessary performance adjustments to work elements, adjusting budgets for inflation, or terminating the project.** Moving projects forward in the

categories will help to establish the base funding for ongoing commitments. This phase closely resembles the previous mainstem/systemwide category, but for the first time is broken into similar project types for a review that compares like projects.

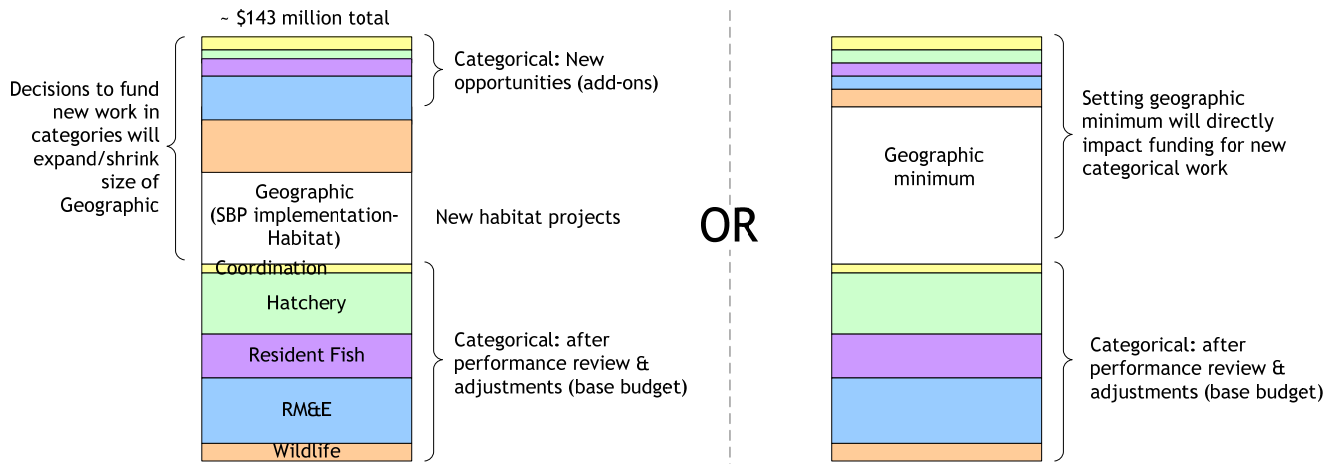
While the categorical review focuses on projects within the current portfolio, we anticipate that some of those projects will propose expanded or accelerated actions beyond the status quo continuation of the project, which might warrant additional funding (depicted in the Figure 2. as the collection of small diamonds in the middle). These potential additional actions or opportunities can be identified, grouped, and held for future decision as described at the bottom of the diagram. **Staff recommends making decisions on additional opportunities immediately after all categories have been reviewed and after geographic allocations are made and before geographic review begins.** Making those decisions after completion of categorical reviews has the advantage of allowing the Council to shift priorities between categories and habitat priority needs.

### **Geographic Review and Budget**

The geographic reviews constitute the second phase of the process. These reviews will focus on implementation of subbasin plans through existing work and the associated limiting factors. The geographic review phase is closely modeled after the rolling provincial review of FY2001-2003 and will require a lot of involvement from the local subbasin and recovery planners and managers. The reviews, as described in the 2000 program, will include site visits and meetings with the ISRP to review existing work. In addition, the local planning groups will be asked to describe new priority work and how Bonneville-funded work fits in to the context of other activities in the subbasin. Where categorical projects have geographic components, the results from those category reviews will be brought into the geographic reviews.

Once the categorical projects have been reviewed and set on an appropriate funding path, the Council will have a better understanding of the how to balance funding between habitat work and *new* categorical work. The diagram below shows how decisions on funding additional category work or geographic work relate (Figure 3). This diagram demonstrates how decisions on either funding additional category work or funding habitat work could affect the other. Although the Program doesn't have a defined budget beyond 2009, budgets for long-term commitments identified during the categorical review could form a base budget to help scale, prioritize, and sequence geographic budgets. The Council should consider establishing a minimum amount of funding to be dedicated for habitat work. Setting this minimum would allow flexibility in funding the new categorical work (i.e. small diamonds in Figure 2). **Staff recommends: 1) the Council establish a minimum amount of funding dedicated for habitat actions; and 2) a geographic allocation be established after the categorical reviews are completed.**

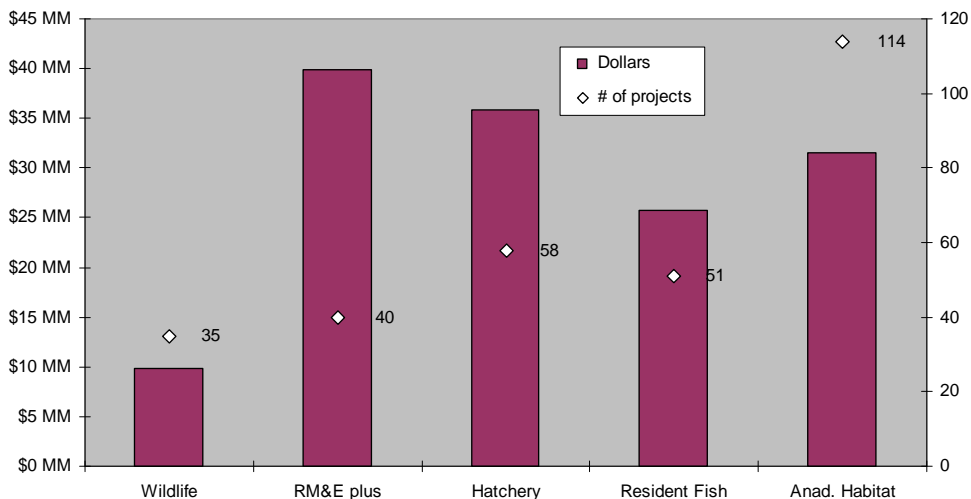
Figure 3. Funding decision impacts after categorical review: Balance new work in categories & new habitat work



Another consideration for new project funding -- that does not need an immediate decision -- is the timing to solicit for new projects in a geographic area through a targeted RFP. This will be dependent on the geographic allocation and discretionary funding but could occur in one of two places: 1) *during* a geographic review; and 2) *after* a geographic review. There may be cases where it makes more sense to request for new projects during a geographic review, for example, in the Estuary, where current habitat work is very limited and it might make sense to incorporate an RFP then. Whereas, in other areas, habitat projects are more extensive and may be able to address gaps. **Staff recommends using the planning phase for each geographic review to help establish when and how to address the highest priority limiting factors - in the form of new work - through existing projects work elements, or through a request for proposals.**

Based on what was outlined above for both categorical and geographic review, Figure 4. shows the break out of the FY 2007-2009 Project Portfolio by category and anadromous habitat (i.e., geographic). Specifically it shows and the number of existing projects by category and the relative funding by category. This also demonstrates our statement in the first paragraph acknowledging that the bulk of program represents past investments of, for example, land and hatcheries. These review units are plugged into a sequence for review that is discussed in the following pages, and specifically in Figure 5.

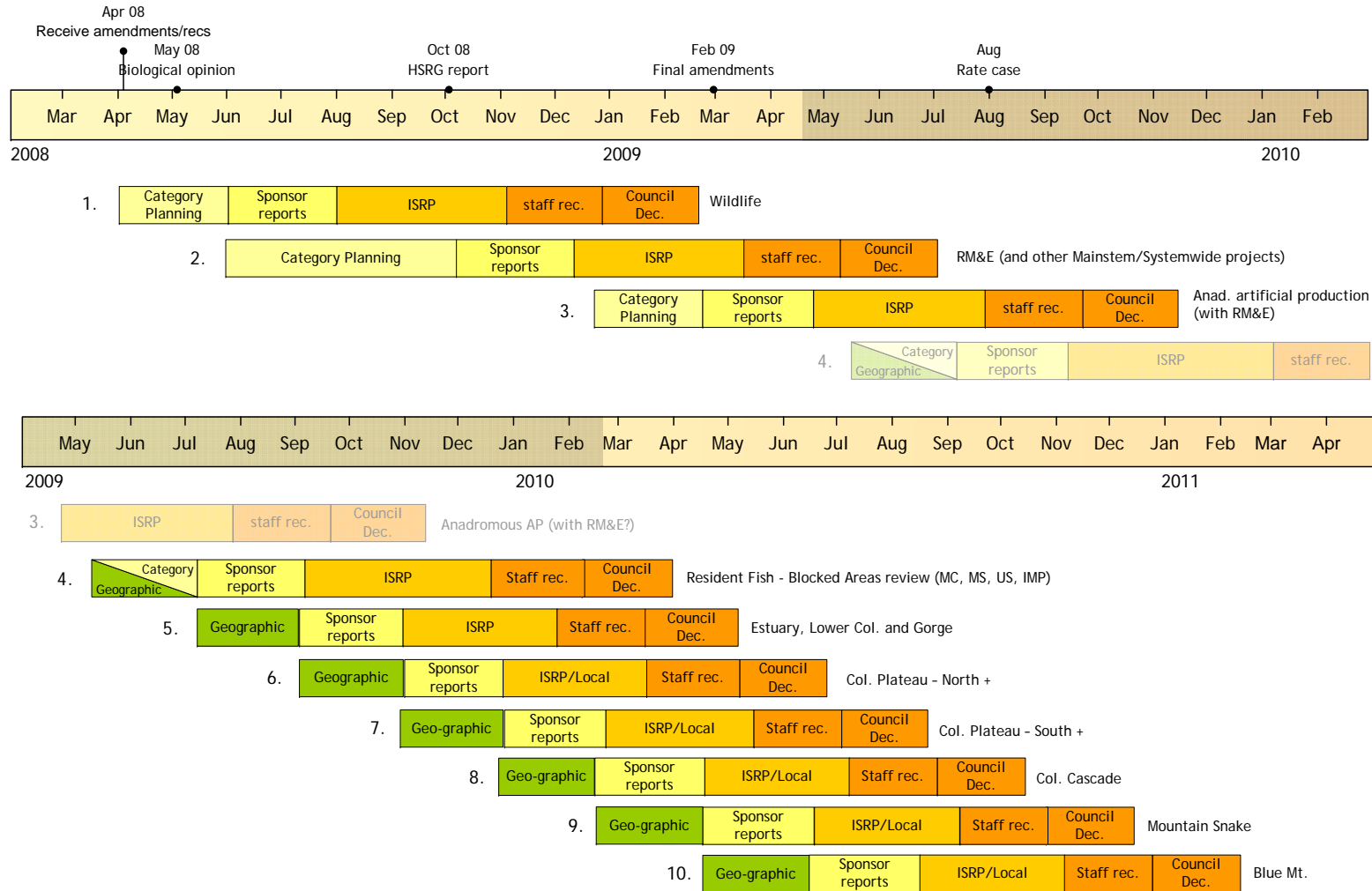
Figure 4. FY 2007-2009 Project Portfolio by category and anadromous fish habitat (geographic)



**Attachments** (not numbered)

- Proposed Timeline and Review Steps (Figure 5)
- Process Review Steps – detailed description
- Interim funding proposal
- Categorical and Geographic Review Units (Table)
- A Provincial Example (geographic) – The Blue Mountain
- Overarching Principles for the Proposed Project Review Process & Roles and Responsibilities
- Categorical Review of Wildlife Category Summary
- Table of FY 2007-2009 Funded Projects by DRAFT Category Review Sets (Note: The table depicts a preliminary sort and categorization of projects based on Council, BPA, CBFWA, and ISRP staff input)

Figure 5. Proposed Timeline and Review Steps



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## Project Review Steps – detailed description

(Accompanies Figure 5.)

### Categorical:

#### 1. **Planning – Category Assessment** (2 months)

- **Who:** Council staff and Bonneville, with support from ISRP and others as appropriate (the group will need to bring in key people at strategic points during the planning phase including F&W managers, subbasin/recovery planners)
- **Activities:** During the planning phase, staff will identify, establish and compile:
  - appropriate list of projects to be reviewed in that category and subcategory
  - review framework and objectives (processes, timelines, sideboards)
  - expectations regarding likely outcomes (e.g. project durations, relationship to geographic reviews)
  - cross-cutting issues from past reports
  - evaluation questions and criteria
  - additional information needs and questions for sponsors and other F&W managers
- **Outputs:**
  - Information on projects' past accomplishments, historic spending, past ISRP/AB reviews, project locations, relevant plans, related external projects (not funded by BPA), and performance metrics
  - Web template / interface for project-specific information gathering
  - Guidance documents for the review

#### 2. **Sponsor Reports** (2-3 months)

- **Who:** Project sponsors
- **Activities:** The planning group will request information from sponsors as needed. Sponsors will use web-interface to submit requested information (e.g., management plans, M&E plan, 5-10 yr work plan, and accomplishments reports).

#### 3. **ISRP Review** (3 months)

- **Who:** ISRP and project sponsors
- **Activities:** The ISRP will review the suite of categorical projects using evaluation questions to assess cross-cutting and individual projects issues within the category. Depending on the needs of the particular review, the ISRP may have interactions directly with sponsors during the review. Part of the review may include topical meetings and some site visits. The ISRP will use relevant reports (accomplishments, and scientific) and subbasin plans where appropriate.
- **Outputs:** Recommendations for existing projects should include a finding of whether the project meets scientific review criteria, identification of the areas the project needs to remedy to meet scientific review criteria, project improvement measures, and a recommended strategy for future reviews (reporting and frequency of reviews); Also, the ISRP should report on notable cross-cutting issues that are common to the suite of projects (e.g. methods, costs, strategies). A response-loop is factored into this review phase.

#### 4. Council/BPA Staff Recommendations (2 months)

- **Activities / outputs:** For each category, staff will develop joint recommendations (with any differences explained) for category projects, budget, and consistency and improvement measures.
  - Recommendations to confirm ongoing work – all reviewed projects, appropriate performance adjustments (including possible terminations) and the overall budget associated with moving ongoing work forward. For longer-term project types, recommendations should include project scope (e.g., expectations regarding key deliverables), expected durations, and budgets as well as adaptive management process/requirements (e.g., performance metrics).
  - Compile track, and make recommendations for any new proposed add-on work – for possible future decision.
  - Prepare information material to carry into appropriate geographic review.
  - At the end of all categorical reviews, staff will prepare final summary recommendations for all categories.

#### 5. Council Decision (1.5 months)

Staff will present recommendations to Council for decision over two meetings. Final funding recommendations are forwarded to BPA for decision and contract processing.

### Geographic:

#### 1. Planning – Subbasin Information (2 months)

- **Who:** Council and Bonneville staff with support from ISRP and others (the group will need to bring in key people at strategic points during the planning phase - F&W managers, subbasin and recovery planners)
- **Activities:** During the planning phase, staff will identify, establish and compile:
  - appropriate list of projects to be reviewed in that geographic area and by subbasin
  - agreement on and invitation to key people we'll need to bring in at strategic points during the planning phase
  - develop final review framework -- meetings and site visits with sponsors and local planning groups (including processes, timelines, sideboards)
  - expectations regarding likely outcomes (e.g. project durations, relationship to geographic reviews)
  - evaluation questions and criteria for ISRP
  - Questions for local planning/recovery groups, relevant sponsors, and F&W managers
  - Gather relevant subbasin plans and reports for the ISRP to use in their review
  - Including a decision regarding whether to focus on existing work or newly solicited projects
- **Outputs:**
  - Review set (suite of projects), and information on projects' past accomplishments historic spending, past ISRP/AB reviews, project locations, relevant plans, related external projects (not funded by BPA), and information from categorical reviews
  - Web template / interface for project-specific information gathering,
  - Guidance documents for the review

**2. Subbasin Reports (2-3 months)**

- **Who:** Fish and wildlife managers and subbasin planning/recovery entities
- **Activities:** Provide information to Council in response to guidance. Guidance would likely include a request for planning entities to provide and updated:
  - Summary of BPA and non-BPA projects ongoing in the subbasin
  - Accomplishments report in implementing the subbasin plans
  - Recommendations regarding the next highest priority limiting factors to address (action plans)
  - Management plans, M&E plan, and 5-10 yr work plan

**3. ISRP Review (3 months)**

- **Who:** ISRP, project sponsors, and relevant local planning entities
- **Activities:** The ISRP will review the suite of geographical projects using evaluation questions to assess how current and planned implementation is/will address limiting factors. The ISRP will use accomplishments reports, subbasin plans and other relevant planning documents. The ISRP will interact with local groups in this review much like the previous province review and the latest Umatilla review – with meetings and potential site visits. The review will look at the action plans and big-picture context of subbasin plan implementation and make recommendations on optimizing existing projects, and implementation strategies for the future.
- **Outputs:** Recommendations for existing projects should include a finding of whether the project meets scientific review criteria, identification of the areas the project needs to remedy to meet scientific review criteria, project improvement measures, and a recommended strategy for future reviews (reporting and frequency of reviews). A response-loop is factored into this review phase.

**4. Council/BPA Staff Recommendations – (2 months)**

- **Activities:** Develop joint recommendations (with any differences explained) on scope/budget modifications for longer-term projects resulting from additional geographic review information; next steps for addressing the highest priority limiting factors through existing projects work elements, or through a request for proposals.

**5. Council Decision (1.5 months)**

Staff will present recommendations to Council for decision over two meetings. Final funding recommendations are forwarded to BPA for decision and contract processing.

## **Interim Project Funding**

The program is currently operating under the implementation planning budgets associated with Fiscal Year 2007 - 2009 decisions. The process as proposed would have the Council making decisions on projects over time beginning around March 2009 through early 2011. The timing would leave some projects without the ability to develop contracts as early as May 2009 (for October funding). In discussions with Bonneville, they have agreed to work with sponsors to continue projects at near current funding levels (with necessary adjustments) until future funding decisions are made under the new review process. Bonneville's Project Managers (COTRs) will request from sponsors, a 2010 scope of work that reflects the next iteration of the project that was approved for 2007-2009 funding. While project budgets may slightly fluctuate from 2009 levels, Bonneville will manage its contract implementation such that the sum of its actions fit within the existing budget and Program. There is the possibility that a pending rate case could allow for some inflationary adjustments and 2010 contracts could provide this support where warranted. If discussions between a project manager and the sponsor result in warranted project adjustment that significantly alters the scope and intent of the project as reviewed by the Council and ISRP, these alterations should be presented to the Budget Oversight Group for discussion prior to June 2009. The ultimate scope and long-term purpose of each project will be reviewed in more detail during these subsequent project reviews.

## Categorical and Geographic Units

(In order of proposed sequence)

| Categorical Units  | Geographic Units<br>for Review Purposes  |
|--|--|
| <p><b>1. Wildlife</b></p> <ul style="list-style-type: none"> <li>a. Restoration and O&amp;M,</li> <li>b. Program support (HEP)</li> <li>c. Acquisition</li> <li>d. RM&amp;E / Data management</li> <li>e. Regional Coordination</li> </ul> <p><b>2. Research, M&amp;E, Data Management and other systemwide projects</b></p> <ul style="list-style-type: none"> <li>a. Habitat</li> <li>b. Species life histories</li> <li>c. Ocean</li> <li>d. Harvest</li> <li>e. Hydrosystem</li> <li>f. Artificial production</li> </ul> <p><b>3. Artificial Production</b><br/>(anadromous)</p> <ul style="list-style-type: none"> <li>a. O&amp;M</li> <li>b. M&amp;E</li> <li>c. Research</li> </ul> <p><b>4. Resident Fish</b><br/>Mitigation &amp; Substitution</p> <ul style="list-style-type: none"> <li>a. Artificial Production</li> <li>b. Habitat</li> <li>c. M&amp;E</li> </ul> | <p><b>4. Blocked Areas provinces:</b><br/>(integrated with Resident Fish review)</p> <ul style="list-style-type: none"> <li>a. Mountain Columbia</li> <li>b. Upper and Middle Snake</li> <li>c. Intermountain</li> </ul> <p><b>5. Estuary and Lower Columbia and Columbia Gorge</b> (except Klickitat &amp; Fifteen Mile)</p> <p><b>6. Columbia Plateau:</b><br/>Yakima, Klickitat, Lower Mid Columbia</p> <p><b>7. Columbia Plateau:</b><br/>Walla Walla, Asotin, Tucannon, Umatilla, , John Day, Deschutes, Fifteenmile</p> <p><b>8. Columbia Cascade</b></p> <p><b>9. Mountain Snake</b></p> <p><b>10. Blue Mountain</b> (minus Asotin)</p> |

## **A Provincial Example – Blue Mountains**

Based upon the proposed review process, the review for the Blue Mountains province would conclude the set of geographic reviews. Chairman Booth questioned the value of commencing a review of the Blue Mountains in 2010 and the effect that would have on currently funded work in the Blue Mountains. Staff decided to take the currently funded projects in the Blue Mountains province and put them through the proposed review sequence to determine what effect our proposed review sequence would have on a particular province. While the results will vary in each province, this will provide a sense of where projects within a province are likely to be broken out for review. The dollar figures have been rounded.

Twenty-two projects currently receive either expense or capital funding in the Blue Mountains. In BPA planning budget dollars for FY 2008 those projects total \$8.3 million in expense funding and \$950,000 in capital funding.

Most of the projects in the Blue Mountains would actually get reviewed through the categorical reviews commencing in 2008. Of those 22 projects, three wildlife projects (199608000 – Precious Lands, 200002100 – Ladd Marsh, 200600500 – Schlee Acquisitions) would be included in the wildlife categorical review beginning in the next month. In FY 2008 dollars, those projects total just over \$600,000 in expense funding.

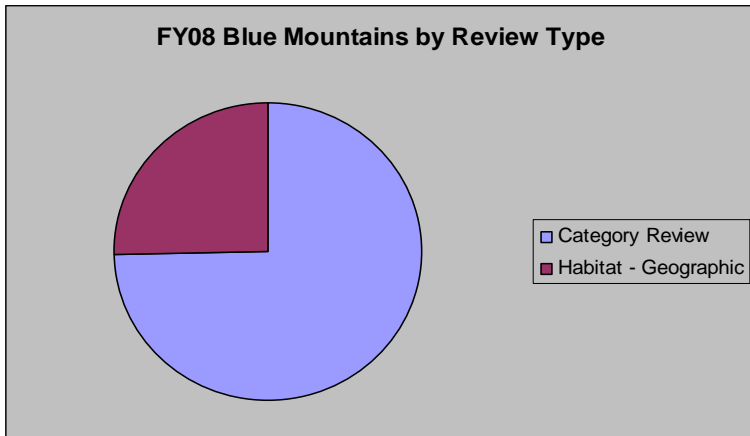
Nine projects relate to captive broodstock or to the development of the Northeast Oregon Hatchery (198805301 – Grande Ronde Endemic, 198805305 –NEOH Outplanting, 199202604 – Life History of Spring Chinook, 199800702 – Lostine O&M, M&E, 199800703 Grande Ronde O&M, 199800704 Endemic Spring Chinook Supplementation, 199801004 M&E Juvenile Spring Chinook, 199801005 – Pittsburg Landing, 200740400 Spring/Summer Captive). Those nine projects include both operations and maintenance for the production program and monitoring and evaluation associated with the artificial production strategies and would fall under the Artificial Production categorical review. In BPA's FY 2008 planning budget they total \$4.2 million in expense and \$2 million in capital funding.

Three projects totaling about \$325,000 (199801003 – Spawning Distribution of Snake Fall Chinook, 200205300 – Assess Salmonids in Asotin Creek, 200708300 – Grand Ronde Cooperative M&E) appear to relate to an overall species monitoring approach not related to artificial production monitoring and evaluation and would thus get examined through the Monitoring and Evaluation categorical review.

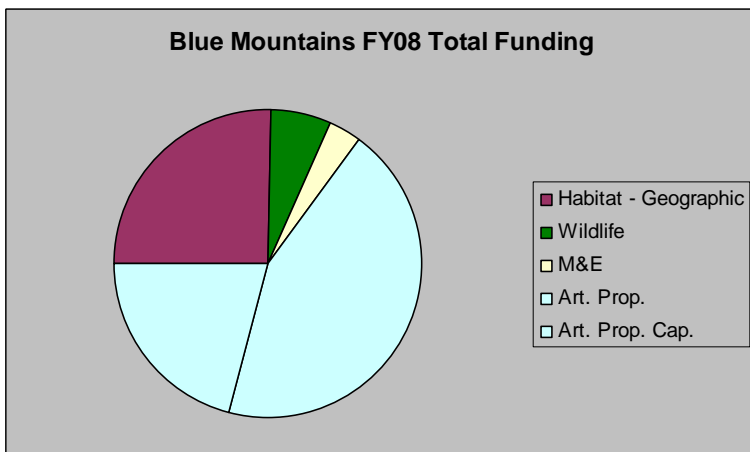
For the geographic review, the Council would review the four projects largely focused upon habitat restoration (198402500 – ODFW Fish Habitat, 199202601 – Grande Ronde Model Watershed, 199608300 – CTUIR Habitat Restoration, 200739300 – NPT Protect and Restore NE Oregon) in the Blue Mountains after completing the categorical reviews. Three of these four habitat projects have had a lengthy program history. In FY 2008 planning dollars they total \$2.4 million. Note: three projects in Asotin Creek focused upon habitat restoration (199401805, 20020500, and 200205400) would be moved into the Columbia Plateau North for their geographic review.

Thus, the vast majority of the projects and dollars associated with the Blue Mountains projects receive categorical reviews commencing in FY 2008. The results of those categorical reviews will help inform the geographic review of the smaller number of habitat projects in the Blue Mountains.

Staff has prepared a graphic breakout for the various types of reviews in the Blue Mountains. The first chart depicts the FY 2008 dollar value, both capital and expense, for projects in categorical reviews and projects in a geographic review of the Blue Mountains province.



The second chart further breaks out the categorical reviews by FY 2008 dollars into the various categories.



The geographic review of the Blue Mountains would take the information developed in the categorical reviews, including funding recommendations (if any), and incorporate it into a review of habitat work currently funded in the province. That geographic review would focus upon how the currently funded habitat work implemented the subbasin plans within the province and complimented work reviewed through the categories. It would also incorporate any long-term agreements addressing ESA needs. The geographic review would perform a gaps analysis as the basis for requests for proposals (RFPs) for work to fit any identified gaps, making sure the RFPs fit within the funding allocation for the province.

## **Overarching Principles for the Proposed Project Review Process**

- 1. Implements BPA's portion of the Council's Fish and Wildlife Program** for anadromous fish, resident fish, and wildlife, including subbasin plans and other planning documents associated with the Program.
- 2. Allows the flexibility to incorporate BPA's ESA requirements** and relevant agreements.
- 3. Ensures review of projects consistent with the Northwest Power Act**, Section 4(h)(10)(D), including those identified in the BiOp and long-term agreements.
- 4. Establishes a staggered categorical and/or geographic review process.**
- 5. Recognizes differences in project types**, specifically those with long-term funding commitments vs. shorter term implementation (e.g., habitat). Each type may be set on different, but integrated, funding and review paths.
- 6. Establishes and communicates timelines, processes, expectations, and budget allocations** to provide stability for project sponsors and decision makers.
- 7. Incorporates information on non-BPA funded** fish and wildlife work taking place.
- 8. Focuses on program performance** by linking program spending with limiting factors
- 9. Increases transparency and accountability of project** deliverables, durations, reporting requirements, performance metrics, and expectations.
- 10. Develops unified recommendations/decisions** from the Council and Bonneville by jointly formulating and managing the review processes, working through areas of disagreement, and developing joint staff work products for Council and BPA-management consideration.

## **Roles and Responsibilities**

- 1. The Northwest Power and Conservation Council and Bonneville Power Administration.** The Council and BPA jointly establish project review objectives and selection processes (including categorical and geographic reviews); establish mechanisms for gathering regional input into processes and funding priorities and resolve any disputes between various project recommendations; develops unified recommendations/decisions. In addition the Council manages the implementation of local reviews and ensures consistency between geographic reviews; and BPA provides reporting information on project performance (e.g., PISCES), conducts *in lieu* reviews, and implements decisions.
- 2. Fish and wildlife managers.** The process will include participation of the fish and wildlife managers in the process planning phase. They will assist in developing project selection criteria, integrating existing fish and wildlife management plans, and updating biological information in the subbasin plans. The process will also solicit the input of managers to help ensure that



proposed projects address key limiting factors, and provide information on project linkages to fish and wildlife benefits and management priorities.

- 3. Action Agencies.** The action agencies will be asked to provide information on projects needed to implement ESA responsibilities, including proposed projects and mitigation actions implemented outside the BPA direct funded program that relate to the Program.
- 4. Local review groups.** The process will invite local participation in the development and coordination of geographic reviews, and rely on the groups to provide information on habitat project priorities (existing and future), feasibility of implementation, and information on the other non-BPA funded fish and wildlife activities taking place in the subbasin.
- 5. Independent Scientific Review Panel.** The ISRP will review new and existing projects to determine if the projects are based on sound science, benefit fish and wildlife, include provisions for monitoring and evaluating results, and are consistent with the program. The ISRP will also provide scientific insight into specific scientific questions raised in categorical and geographic reviews.

## **Categorical Review Summary for Wildlife**

The proposed categorical review associated with wildlife includes 35 projects (see attached table of FY 2007-09 projects). These projects have emphasis in the following areas:

- Operation and Maintenance (O&M) – 23 projects
- Protection (acquisition and /or easement) – 8 projects
- Restoration – 1 project
- RM&E - 3 projects

Generally, projects with an emphasis on O&M are addressing the needs associated with a previously acquired parcel. In contrast, projects that emphasized protection incorporated acquisition and/or easements into the current implementation plan. The one restoration project emphasizes enhancement for a particular species, and three projects emphasize RM&E. This last grouping includes Project 2006-006-00, Habitat Evaluation Procedures (HEP).

The review questions and issues for this category of projects will be defined during the planning phase for the review. Initially, the planning phase might identify the following topics to defined and addressed:

- Restoration and O&M
- Program support (HEP)
- Acquisition
- RM&E / Data management
- Regional Coordination

## Table of FY 2007-09 Funded Projects by DRAFT Category Review Sets

Note: This table depicts a preliminary sort and categorization of projects based on Council, BPA, CBFWA, and ISRP staff input.

### 1. Wildlife Category Review Set (sorted by strategy and emphasis)

| Strategy | Emphasis | Geo. Rev. Set             | Province           | Subbasin          | Proposal#         | Title  | Sponsor   |                    |
|----------|----------|---------------------------|--------------------|-------------------|-------------------|--|---|--------------------|
| Habitat  | O&M      | 4.ResFish<br>Blocked Area | Intermountain      | Columbia<br>Upper | 199204800         | Colville Confederated Tribes<br>Wildlife Mitigation Project  | Colville Tribes                                   |                    |
|          |          |                           |                    | Spokane           | 199800300         | Spokane Tribe Wildlife Mitigation<br>Operations & Maintenance  | Spokane Tribe                                     |                    |
|          |          |                           | Middle Snake       | Boise             | 199505701         | S Idaho Wildlife Mitigation  | IDFG  |                    |
|          |          |                           |                    | Malheur           | 200000900         | Logan Valley Wildlife Mitigation<br>Site   | Burns Paiute                                      |                    |
|          |          |                           |                    |                   | 200002700         | Acquisition Of Malheur River<br>Wildlife Mitigation Project  | Burns Paiute                                      |                    |
|          |          |                           | 5.Estuary<br>Gorge | Lower Columbia    | Columbia<br>Lower | 200301200  | Shillapoo Wildlife Area                           | WDFW               |
|          |          |                           |                    |                   | Willamette        | 199107800  | Burlington Bottoms Wildlife<br>Mitigation Project | ODFW               |
|          |          |                           |                    |                   |                   | 199205900  | Amazon Basin/Eugene Wetlands<br>-                 | Nature Conservancy |
|          |          | 200001600                 |                    |                   |                   | Tualatin River NWR Additions   | Tualatin R NWR                                    |                    |
|          |          | 200726000                 |                    |                   |                   | Acquisition of a Conservation<br>Easement over 1084 acres of<br>Upland Prairie and Oak Habitat,<br>Willamette Subbasin | Nature Conservancy                                |                    |
|          |          | 6.Plateau<br>North        | Columbia Plateau   | Crab              | 199106100         | Swanson Lake Wildlife Mitigation<br>Project (Swanson Lakes Wildlife<br>Area)   | WDFW  |                    |
|          |          |                           |                    |                   | 200600300         | Desert Wildlife Area O&M<br>(Wetland Enhancement)  | WDFW  |                    |
|          |          |                           |                    | Yakima            | 200201400         | Sunnyside Wildlife Mitigation  | WDFW  |                    |
|          |          |                           |                    |                   | 200600400         | Wenas Wildlife Area O&M  | WDFW  |                    |
|          |          | 7.Plateau<br>South        | Blue Mountain      | Asotin            | 200600500         | Asotin Creek Wildlife Area O&M<br>(Schlee Acquisitions)  | WDFW  |                    |

| Strategy         | Emphasis       | Geo. Rev. Set       | Province                | Subbasin              | Proposal#                          | Title  | Sponsor  |
|------------------|----------------|---------------------|-------------------------|-----------------------|------------------------------------|--|--|
| Habitat          | O&M            | 7. Plateau South    | Columbia Plateau        | John Day              | 199802200                          | Pine Creek Conservation Area: Wildlife Habitat and Watershed Management on 33,557-acres to benefit grassland, shrub-steppe, riparian, and aquatic species. | CTWSR  |
|                  |                |                     |                         | Umatilla              | 199009200                          | Wanaket Wildlife Area  | CTUIR  |
|                  |                |                     |                         |                       | 199506001                          | Iskuulpa Watershed Project   | CTUIR  |
|                  |                |                     |                         | Walla Walla           | 200002600                          | Rainwater Wildlife Area Operations and Maintenance   | CTUIR  |
|                  |                |                     |                         |                       |                                    |  |  |
|                  |                | 8. Columbia Cascade | Columbia Cascade        | Columbia Upper Middle | 199404400                          | Enhance, protect and maintain shrub-steppe habitat on the Sagebrush Flat Wildlife Area (SFWA)  | WDFW   |
|                  |                |                     |                         | Okanogan              | 199609401                          | Scotch Creek Wildlife Area   | WDFW   |
|                  |                | 10. Blue Mountain   | Blue Mountain           | Grande Ronde          | 199608000                          | Ne Oregon Wildf Proj (Npt) Precious Lands  | Nez Perce Tribe                                  |
|                  |                |                     |                         |                       | 200002100                          | Securing Wildlife Mitigation Sites - Oregon Ladd Marsh WMA and Grande Ronde Subbasin Wetlands  | ODFW   |
|                  |                | Protection          | 4. ResFish Blocked Area | Intermountain         | Columbia Upper                     | 200702700  | Colville Confederated Tribes Acquisition Project |
| Pend Oreille     | 199206100      |                     |                         |                       | Albeni Falls Wildlife Mitigation   | Albeni Falls Interagency   |  |
| Spokane          | 199106200      |                     |                         |                       | Spokane Tribe Wildlife Mitigation  | Spokane Tribe  |  |
| Middle Snake     | Owyhee         |                     |                         | 199505703             | Southern Idaho Wildlife Mitigation | SPT  |  |
| Upper Snake      | Snake Upper    |                     |                         | 199505700             | S Idaho Wildlife Mitigation        | IDFG   |  |
|                  |                |                     |                         | 199505702             | Southern Idaho Wildlife Mitigation | SBT  |  |
| 5. Estuary Gorge | Lower Columbia |                     |                         | Willamette            | 199206800                          | Willamette Basin Mitigation  | ODFW   |

| Strategy   | Emphasis    | Geo. Rev. Set          | Province                                 | Subbasin                                 | Proposal# | Title  | Sponsor            |
|--|-------------|------------------------|--|--|-----------|--|--------------------|
| Habitat  | Protection  | 8.Columbia Cascade     | Columbia Cascade                         | Okanogan                                 | 200723200 | Okanogan-Similkameen Habitat Protection Project - Fish and wildlife habitat protection through fee simple and conservation easement purchases. | WDFW               |
|  | Restoration | 5.Estuary Gorge        | Columbia Gorge                           | Columbia Gorge                           | 200102700 | Western Pond Turtle Recovery - Columbia River Gorge - Washington   | WDFW               |
| Hydrosystem  | RM&E        | 4.ResFish Blocked Area | Mountain Columbia                        | Kootenai                                 | 200201100 | Kootenai Floodplain Operational Loss Assessment  | Kootenai Tribe     |
| Program Support                                    | RM&E        | 1-3. Cat. Only         | Mainstem on the ground/<br>Multiprovince | Mainstem on the ground/<br>Multiprovince | 200600600 | Habitat Evaluation Procedures (HEP)  | CBFWA              |
|  |             |                        | Mainstem/<br>Systemwide                  | Systemwide                               | 200307200 | Habitat and Biodiversity Information System For Columbia □<br>River Basin  | NHI                |
| <b>Wildlife Expense Total (three-year average)</b> |             |                        |  |  |           |  | <b>\$9,776,834</b> |

**2a. RME & Other Mainstem/ Systemwide Projects (sorted by strategy and emphasis)**

| Strategy | Emphasis     | Geo. Rev. Set  | Province                                 | Subbasin                                 | Proposal#  | Title   | Sponsor  |
|----------|--------------|----------------|--|--|------------|---|--|
| Habitat  | O&M          | 1-3. Cat. Only | Mainstem on the ground/<br>Multiprovince | Mainstem on the ground/<br>Multiprovince | 199007700  | Dev Of Systemwide Predator Control for Northern Pikeminnows.      | PSMFC  |
|          | Protection   | 1-3. Cat. Only | Mainstem on the ground/<br>Multiprovince | Mainstem on the ground/<br>Multiprovince | 200201301  | Water Entity (RPA 151) NWPPC                                      | Natl F&W Foundation  |
|          | RM&E         | 1-3. Cat. Only | Mainstem on the ground/<br>Multiprovince | Mainstem on the ground/<br>Multiprovince | 199702400  | Avian Predation on Juvenile Salmonids in the Lower Columbia River | OSU  |
| Harvest  | Coordination | 1-3. Cat. Only | Mainstem on the ground/<br>Multiprovince | Mainstem on the ground/<br>Multiprovince | 200206000  | Nez Perce Harvest Monitoring                                      | Nez Perce Tribe  |
|          |              |                | Mainstem/<br>Systemwide                  | Systemwide                               | 200739000  | Conservation Enforcement  | Confederated Tribes of the Umatilla Indian Reservation         |
|          |              |                |  |  | 200739100  | Conservation Enforcement  | Columbia River Inter-Tribal Fish Commission (CRITFC)           |
|          |              |                |  |  | 200739200  | Conservation Enforcement  | Nez Perce Tribe  |
|          | RM&E         | 1-3. Cat. Only | Mainstem/<br>Systemwide                  | Systemwide                               | 198201301  | Coded-Wire Tag Recovery   | PSMFC  |
|          |              |                |  |  | 198201302  | Annual Stock Assessment - Coded Wire Tag Program (ODFW)           | ODFW   |
|          |              |                |  |  | 198201303  | Coded Wire Tag - USFWS  | USFWS  |
|          |              |                |  |  | 198201304  | Coded Wire Tag - WDFW   | WDFW   |
|          |              |                |  |  | 200724900  | Evaluation of Live Capture, Selective Fishing Gear                | Colville Tribes  |
|          | Hydrosystem  | O&M            | 1-3. Cat. Only                           | Mainstem/<br>Systemwide                  | Systemwide | 199602100   | Gas Bubble Disease Research & Monitoring of Juvenile Salmonids |

| Strategy    | Emphasis | Geo. Rev. Set  | Province                                 | Subbasin                                 | Proposal#   | Title   | Sponsor              |
|-------------|----------|----------------|--|--|-------------|---|----------------------|
| Hydrosystem | RM&E     | 1-3. Cat. Only | Mainstem on the ground/<br>Multiprovince | Mainstem on the ground/<br>Multiprovince | 199900301   | Evaluate Spawning of Fall Chinook and Chum Salmon Just Below the Four Lowermost Mainstem Dams                           | ODFW                 |
|             |          |                | Mainstem/<br>Systemwide                  | Systemwide                               | 198712700   | Smolt Monitoring By Non-Feder   | PSMFC                |
|             |          |                |  |  | 199102900   | Research, monitoring, and evaluation of emerging issues and measures to recover the Snake River fall Chinook salmon ESU | USFWS                |
|             |          |                |  |  | 199302900   | Survival Estimates for the Passage of Juvenile Salmonids Through Snake and Columbia River Dams and Reservoirs           | NW Fisheries Science |
|             |          |                |  |  | 199602000   | Pit Tagging Spring/Summer Chin  | Col R Fisheries      |
|             |          |                |  |  | 200203200   | Snake River fall Chinook salmon life history investigations   | USGS                 |
|             |          |                |  |  | 200304100   | Evaluate Delayed (Extra) Mortality Associated with Passage of Yearling Chinook Salmon through Snake River Dams          | NW Fisheries Science |
|             |          |                |  |  | 200753500   | Physical and Biological Testing of a Flow Velocity Enhancement System   | Natural Solutions    |
|             |          |                |  |  | placeholder | CSS Placeholder   | (blank)              |
| Ocean       | RM&E     | 1-3. Cat. Only | Mainstem/<br>Systemwide                  | Systemwide                               | 199801400   | Ocean Survival Of Salmonids   | NOAA                 |
|             |          |                |  |  | 200300900   | Canada-Usa Shelf Salmon Survival Study  | Canada Fisheries     |
|             |          |                |  |  |             |   |                      |

| Strategy   | Emphasis | Geo. Rev. Set  | Province                                 | Subbasin                                 | Proposal# | Title   | Sponsor              |
|--|----------|----------------|--|--|-----------|---|----------------------|
| Program Support  | RM&E     | 1-3. Cat. Only | Mainstem/<br>Systemwide                  | Systemwide                               | 198331900 | New Marking & Monitoring Tech   | NOAA                 |
|  |          |                |  |  | 198810804 | StreamNet (CIS/NED)   | PSMFC                |
|  |          |                |  |  | 198910700 | Statistical Support For Salmonid Survival Studies                                 | U of WA              |
|  |          |                |  |  | 199008000 | Columbia Basin Pit-Tag Information System.  | PSMFC                |
|  |          |                |  |  | 199105100 | M&E Statistical Support For Life-Cycle Studies                                    | U of WA              |
|  |          |                |  |  | 199403300 | The Fish Passage Center (FPC)   | PSMFC                |
|  |          |                |  |  | 199601900 | Technical Management Team (TMT)   | U of WA              |
|  |          |                |  |  | 200100300 | Adult Pit Detector Installation   | PSMFC                |
|  |          |                |  |  | 200301700 | Integrated Status and Effectiveness Monitoring Program (ISEMP)                    | NW Fisheries Science |
|  |          |                |  |  | 200303600 | CBFWA Collaborative Systemwide Monitoring and Evaluation Program                  | CBFWA                |
|  |          |                |  |  | 200400200 | Pnamp Funding   | USGS                 |
|  |          |                |  |  | 200721600 | Pacific Northwest Aquatic Monitoring Partnership-Fish Population Monitoring (FPM) | PNAMP                |
| Species RM&E   | RM&E     | 1-3. Cat. Only | Mainstem on the ground/<br>Multiprovince | Mainstem on the ground/<br>Multiprovince | 200001200 | Evaluate Factors Limiting Columbia River Chum Salmon                              | USFWS                |
|  |          |                | Mainstem/<br>Systemwide                  | Systemwide                               | 199902000 | Analyze Chinook Salmon Spatial and Temporal Dynamics and Persistence              | USFS                 |
|  |          |                |  |  | 200727500 | Impact of American shad in the Columbia River                                     | CRRL                 |
| <b>RME &amp; Systemwide Expense Total (three-year average)</b> |          |                |  |  |           |   | <b>\$36,176,676</b>  |



**2b. Regional Coordination (sorted by emphasis)**

| Strategy  | Emphasis       | Geo. Rev. Set  | Province                | Subbasin   | Proposal#   | Title   | Sponsor            |
|---|----------------|----------------|-------------------------|------------|-------------|---|--------------------|
| Program Support   | Coordination   | 1-3. Cat. Only | Mainstem/<br>Systemwide | Systemwide | 198906201   | Annual Work Plan CBFWA                                    | CBFWA              |
|   |                |                |                         |            | 199800401   | Columbia Basin Bulletin                                   | Intermountain Comm |
|   |                |                |                         |            | 199803100   | Implement Wy-Kan-Ush-Mi Wa-Kis                            | CRITFC             |
|   |                |                |                         |            | 200710600   | Spokane Tribe Fish and Wildlife Planning and Coordination | Spokane Tribe      |
|   |                |                |                         |            | 200710800   | Regional Coordination for Upper Columbia United Tribes    | UCUT               |
|   |                |                |                         |            | 200716200   | Kalispel Tribe Fish and Wildlife Coordination             | Kalispel Tribe     |
|   |                |                |                         |            | 200740700   | USRT Coordination - Office startup for Amendment process  | USRT               |
|   |                |                |                         |            | placeholder | Coordination Placeholder                                  | (blank)            |
|   | Science Review | 1-3. Cat. Only | Mainstem/<br>Systemwide | Systemwide | 199600500   | ISAB  | NPCC               |
|   |                |                |                         | 199702300  | ISRP        | Northwest Power and Conservation Council                  |                    |
| <b>Regional Coordination Total (three-year average)</b> |                |                |                         |            |             |   | <b>\$3,652,054</b> |

### 3. Artificial Production Categorical Review (sorted by geography)

| Strategy              | Geo. Rev. Set   | Province                                 | Subbasin                                 | Emphasis | Proposal#                      | Title  | Sponsor              |
|-----------------------|-----------------|--|--|----------|--------------------------------|--|----------------------|
| Artificial Production | 1-3. Cat. Only  | Mainstem on the ground/<br>Multiprovince | Mainstem on the ground/<br>Multiprovince | O&M      | 199703800                      | Listed Stock Chinook Salmon Gamete Preservation  | Nez Perce Tribe      |
|                       |                 |  |  |          | 200105300                      | Reintroduction of Chum Salmon into Duncan Creek  | PSMFC                |
|                       |                 |  |  | RM&E     | 199305600                      | Research to advance hatchery reform, including captive broodstocks   | NW Fisheries Science |
|                       |                 |  |  |          | 200001700                      | Recondition Wild Steelhead Kelt  | CRITFC               |
|                       |                 | Mainstem/<br>Systemwide                  | Systemwide                               | RM&E     | 198909600                      | Genetic Monitoring of Snake River Chinook Salmon and Steelhead   | NW Fisheries Science |
|                       |                 |  |  |          | 200305000                      | Eval Of Reprod Of Steelhead  | U of WA              |
|                       |                 |  |  |          | 200305400                      | Repro Of Steelhead In Hood Riv   | OSU                  |
|                       |                 |  |  |          | 200306000                      | Evaluating relative reproductive success of wild and hatchery origin Snake River fall Chinook spawners upstream of Lower Granite Dam | WDFW                 |
|                       |                 |  |  |          | 200306200                      | Evaluate the Relative Reproductive Success of Reconditioned Kelt Steelhead   | CRITFC               |
|                       |                 |  |  |          | 200500200                      | Operation of the Lower Granite Dam Adult Trap  | NW Fisheries Science |
|                       | 200740100       |  |  |          | Kelt Recondition/Repro Success | Columbia River Inter-Tribal Fish Commission (CRITFC)   |                      |
|                       | 5.Estuary Gorge | Columbia Estuary                         | Columbia Estuary                         | O&M      | 199306000                      | Select Area Fisheries Enhancement Project  | ODFW                 |

| Strategy              | Geo. Rev. Set    | Province         | Subbasin  | Emphasis     | Proposal#  | Title  | Sponsor                       |
|-----------------------|------------------|------------------|-----------|--------------|--|--|-------------------------------|
| Artificial Production | 5.Estuary Gorge  | Columbia Gorge   | Hood      | O&M          | 198805307  | Hood R Prod O&M - Ws/Odfw  | CTWSR                         |
|                       |                  |                  |           |              | 198805308  | Hood River Powerdale Dam Fish Trap/Oak Springs/Pelton Ladder Operation and Maintenance | ODFW                          |
|                       |                  |                  |           | RM&E         | 198805303  | Hood River Production M&E - Ws   | CTWSR                         |
|                       |                  |                  |           | 198805304    | Hood River Production Program - ODFW M&E                       | ODFW   |                               |
|                       |                  |                  | Klickitat | Coordination | 198812035  | YKFP Klickitat Management, Data, and Habitat   | Yakama Nation                 |
|                       | 6.Plateau North  | Columbia Gorge   | Klickitat | O&M          | 199701335  | Klickitat Fishery YKFP O & M   | Yakama Nation                 |
|                       |                  |                  |           |              | RM&E   | 198811535  | Klickitat Fishery YKFP Design |
|                       |                  |                  |           | 199506335    | YKFP - Klickitat Subbasin Monitoring and Evaluation            | Yakama Nation  |                               |
|                       |                  | Columbia Plateau | Yakima    | Coordination | 198812025  | Ykfp Management, Data, Habitat   | Yakama Nation                 |
|                       |                  |                  |           | O&M          | 199701325  | Yakima/Klickitat Fisheries Project Operations and Maintenance                          | Yakama Nation                 |
| RM&E                  |                  |                  |           | 199506325    | Yakima Klickitat Fisheries Project - Monitoring And Evaluation | Yakama Nation, WDFW  |                               |
|                       |                  |                  |           | 199506425    | YKFP Policy/Plan/Technical                                     | WDFW   |                               |
|                       |                  |                  |           | 200203100    | Growth modulation in salmon supplementation                    | NOAA   |                               |
| 7.Plateau South       | Columbia Plateau | Tucannon         | O&M       | 200001900    | Tucannon River Spring Chinook Captive Broodstock Program       | WDFW   |                               |

| Strategy              | Geo. Rev. Set       | Province         | Subbasin    | Emphasis     | Proposal#                      | Title   | Sponsor                                     |
|-----------------------|---------------------|------------------|-------------|--------------|--------------------------------|---|---|
| Artificial Production | 7. Plateau South    | Columbia Plateau | Umatilla    | O&M          | 198343500                      | Umatilla Hatchery Satellite Facilities O&M  | CTUIR                                       |
|                       |                     |                  | Umatilla    |              | 198903500                      | Umatilla Hatchery Operation and Maintenance and Fish Liberations  | ODFW  |
|                       |                     |                  | Umatilla    | RM&E         | 198902401                      | Evaluation of Juvenile Salmonid Outmigration and Survival in the Lower Umatilla River Basin.                            | Oregon Department of Fish & Wildlife (ODFW) |
|                       |                     |                  |             |              | 199000500                      | Umatilla Hatchery - M&E   | ODFW  |
|                       |                     |                  |             |              | 199000501                      | Umatilla Basin Natural Production Monitoring and Evaluation Project   | CTUIR                                       |
|                       |                     |                  |             |              | 200203000                      | Develop Progeny Marker for Salmonids to Evaluate Supplementation  | CTUIR                                       |
|                       |                     |                  | Walla Walla | Planning     | 200003800                      | NEOH Walla Walla Hatchery - Three Step Master Planning Process  | CTUIR                                       |
|                       | 8. Columbia Cascade | Columbia Cascade | Okanogan    | Construction | 200302300                      | Chief Joseph Hatchery Program   | Colville Tribes                             |
|                       |                     |                  |             | Planning     | 200721200                      | Develop a locally-adapted summer steelhead program to supplement natural production throughout the Okanogan River basin | Colville Tribes                             |
|                       |                     |                  | Wenatchee   | RM&E         | 199604000                      | Mid-Columbia Coho Restoration Project   | Yakama Nation                               |
| 200303900             |                     |                  |             |              | Monitor Repro In Wenat/Tuc/Kal | WDFW, NOAA  |   |

| Strategy              | Geo. Rev. Set    | Province       | Subbasin   | Emphasis | Proposal#   | Title   | Sponsor  |
|-----------------------|------------------|----------------|------------|----------|---|---|--|
| Artificial Production | 9.Mountain Snake | Mountain Snake | Clearwater | O&M      | 198335000   | Nez Perce Tribal Hatchery Operations & Maintenance                  | Nez Perce Tribe                                      |
|                       |                  |                |            | RM&E     | 198335003   | Nez Perce Tribal Hatchery M&E                                       | Nez Perce Tribe                                      |
|                       |                  |                |            |          | 199005500   | Idaho Steelhead Monitoring and Evaluation Studies                   | IDFG   |
|                       |                  |                | Salmon     | O&M      | 199107100   | Snake River Sockeye Salmon Habitat and Limnological Monitoring      | Shoshone Bannock Tribes                              |
|                       |                  |                |            |          | 199204000   | Redfish Lake Sockeye Salmon Captive Broodstock Rearing and Research | National Oceanic & Atmospheric Administration (NOAA) |
|                       |                  |                |            |          | 199604300   | Johnson Creek Artificial Propagation Enhancement Project            | Nez Perce Tribe                                      |
|                       |                  |                |            |          | 200740200   | Snake River Salmon Sockeye Captive Propagation                      | Idaho Department of Fish and Game                    |
|                       |                  |                |            |          | 200740300   | ID Snake River Spr/Summer Chinook Salmon Captive Propagation        | Idaho Department of Fish and Game                    |
|                       |                  |                |            | Planning | 200799000   | Sockeye Planning, Production, and Design                            | (blank)  |
|                       |                  |                |            | RM&E     | 198909800   | Idaho Supplementation Studies                                       | IDFG / NPT / SBT                                     |
|                       |                  |                | 199107300  |          | Idaho Natural Production Monit  | IDFG  |  |
|                       |                  |                | 199703000  |          | Chinook Salmon Adult Abundance Monitoring<br>[Formerly - Listed Stock Adult Escapement] | Nez Perce Tribe   |  |

| Strategy              | Geo. Rev. Set    | Province      | Subbasin  | Emphasis     | Proposal#   | Title   | Sponsor                                     |
|-----------------------|------------------|---------------|---|--------------|---|---|---|
| Artificial Production | 10.Blue Mountain | Blue Mountain | Grande Ronde  | Construction | 198805301   | Grande Ronde/Imnaha Endemic Spring Chinook Supplementation – Northeast Oregon Hatchery                                | Nez Perce Tribe                             |
|                       |                  |               |   |              | 198805305   | Northeast Oregon (NEOH) Outplanting Facilities Master Plan  | ODFW  |
|                       |                  |               |   | O&M          | 199800702   | Gd Ronde Supp Lostine O&M/M&E   | Nez Perce Tribe<br>DFRM                     |
|                       |                  |               |   |              | 199800703   | Grande Ronde Supplementation Operations and Maintenance   | CTUIR                                       |
|                       |                  |               |   |              | 199800704   | Grande Ronde Basin Endemic Spring Chinook Supplementation Project: Northeast Oregon hatcheries implementation-ODFW    | ODFW  |
|                       |                  |               |   |              | 200740400   | OR Snake River Spring/Summer Chinook Salmon Captive Propagation   | Oregon Department of Fish & Wildlife (ODFW) |
|                       |                  |               | RM&E  | 199202604    | Investigate Life History Of Spring Chinook Salmon and Summer Steelhead in the Grande Ronde River Subbasin | ODFW  |   |
|                       |                  |               | Snake Hells Canyon                                      | O&M          | 199801005   | Pittsburg Landing Fall Chinook Acclimation Project (FCAP)   | Nez Perce Tribe                             |
|                       |                  |               |   | RM&E         | 199801004   | Monitor and Evaluate Performance of Juvenile Snake River Fall Chinook Salmon from Fall Chinook Acclimation Facilities | Nez Perce Tribe                             |
|                       |                  |               | <b>Artificial Production Total (three-year average)</b> |              |   |   |   |

#### 4. Resident Fish and Blocked Area Geographic Review (sorted by strategy and geography)

| Strategy              | Geo. Rev. Set          | Province          | Subbasin      | Emphasis   | Proposal#                          | Title   | Sponsor             |
|-----------------------|------------------------|-------------------|---------------|--|------------------------------------|---|---------------------|
| Artificial Production | 4.ResFish Blocked Area | Intermountain     | Coeur d'Alene | O&M  | 200702400                          | Coeur d'Alene Trout Ponds   | Coeur d'Alene Tribe |
|                       |                        |                   |               | Columbia Upper   | O&M                                | 198503800   | Colville Hatchery   |
|                       |                        |                   | O&M           |  | 199104600                          | Spokane Tribal (Galbr Sprgs) H                                      | Spokane Tribe       |
|                       |                        |                   | O&M           |  | 199104700                          | Sherman Creek Hatchery - O&M  | WDFW                |
|                       |                        |                   | O&M           |  | 199500900                          | Lake Roosevelt Rainbow Trout N                                      | LRDA                |
|                       |                        |                   | O&M           |  | 200102900                          | Ford Hatchery Operations & Maintenance                              | WDFW                |
|                       |                        |                   | O&M           |  | 200737200                          | Lake Roosevelt White Sturgeon Conservation Hatchery Project         | Spokane Tribe       |
|                       |                        |                   | O&M           | 200740500  | Rufus Woods Supplement & Creel     | Colville Confederated Tribes  |                     |
|                       |                        | RM&E              | 199404300     | Lake Roosevelt Fisheries Evaluation Program (formerly Data Collection) | Spokane Tribe                      |   |                     |
|                       |                        | Pend Oreille      | O&M           | 199500100  | Kalispel Tribe Resident Fish P     | Kalispel Tribe  |                     |
|                       |                        | Mountain Columbia | Flathead      | O&M  | 199101904                          | Hungry Horse Mitigation - Stocking of Offsite Waters - Creston NFH  | Creston NFH         |
|                       |                        |                   | Kootenai      | O&M  | 198806400                          | Kootenai River Native Fish Restoration and Conservation Aquaculture | Kootenai Tribe      |
| 9.Mountain Snake      | Mountain Snake         | Clearwater        | O&M           | 199501300  | Resident Fish Substitution Program | Nez Perce Tribe   |                     |

| Strategy | Geo. Rev. Set          | Province      | Subbasin       | Emphasis     | Proposal# | Title  | Sponsor   |
|----------|------------------------|---------------|----------------|--------------|-----------|--|---|
| Habitat  | 4.ResFish Blocked Area | Intermountain | Coeur d'Alene  | Restoration  | 199004400 | Coeur D'Alene Reservation Habitat Enhancement (Coeur d'Alene Subbasin)   | Coeur d'Alene Tribe   |
|          |                        |               |                |              | 200752100 | Improving Fish Habitat Using Innovative Strategies to Remediate Contaminated Sediments in the Columbia River Basin   | Washington State University   |
|          |                        |               | Columbia Upper | Coordination | 200103100 | Intermountain Province Resident Fish Conference and E-Library  | Lake Roosevelt Forum  |
|          |                        |               |                | Restoration  | 199501100 | Chief Joseph Kokanee Enhancement   | Colville Tribes   |
|          |                        |               | Pend Oreille   | Restoration  | 200704100 | Kalispell Riparian Road Removal  | WDFW  |
|          |                        |               |                |              | 200714900 | Pend Oreille Nonnative Fish Suppression Project  | Kalispel Tribe  |
|          |                        |               |                |              | 200724600 | Restoration of bull trout passage at Albeni Falls Dam □ using a trap-and-haul approach in conjunction with investigations to assess effectiveness of rapid genetic analysis in assigning natal tributary | Kalispel Tribe  |
|          |                        |               |                |              | RM&E      | 199404700  | Lake Pend Oreille Fishery Recovery Project: purpose to restore fisheries impacted by the federal hydropower system within the Idaho portion of the Pend Oreille drainage. |
|          |                        |               | Sanpoil        | Restoration  | 199001800 | Lake Roosevelt Rainbow Tr Hab/Pass Impr Prog   | Colville Tribes   |



| Strategy | Geo. Rev. Set          | Province          | Subbasin   | Emphasis     | Proposal#                | Title  | Sponsor                               |
|----------|------------------------|-------------------|------------|--------------|--------------------------|--|---------------------------------------|
| Habitat  | 4.ResFish Blocked Area | Intermountain     | Spokane    | O&M          | 200103300                | Hangman Restoration Project  | Coeur d'Alene Tribe                   |
|          |                        |                   |            | Restoration  | 200103200                | Coeur D'Alene Fisheries Enhancement, Hangman Creek                                 | Coeur d'Alene Tribe                   |
|          |                        | Middle Snake      | Owyhee     | O&M          | 199501500                | Duck Valley Fisheries Project – Operations, Maintenance, Monitoring and Evaluation | SPT                                   |
|          |                        |                   |            | Restoration  | 199701100                | Shoshone-Paiute Habitat Enhanc   | SPT                                   |
|          |                        |                   | Payette    | RM&E         | 200733200                | Mitigation of marine-derived nutrient loss in the Boise-Payette Weiser subbasin.   | IDFG                                  |
|          |                        | Mountain Columbia | Bitterroot | Planning     | 200726500                | Complete and Coordinate a Subbasin Plan for the Bitterroot Watershed               | MT Water Trust                        |
|          |                        |                   | Blackfoot  | Planning     | 200723500                | Proposal to Create a Sub-Basin Plan for the Blackfoot River Sub-Basin              | Trout Unlimited                       |
|          |                        |                   | Flathead   | Coordination | 199608701                | Montana Focus Watershed Coordi   | Salish & Kootenai Confederated Tribes |
|          |                        |                   |            | Protection   | 200200300                | Secure & Restore Resident Fish Habitat   | SKCT                                  |
|          |                        |                   |            | Restoration  | 199101901                | Hungry Horse Mitigation/Flathead Lake  | SKCT                                  |
|          |                        |                   |            |              | 199101903                | Hungry Horse Mitigation Program  | MFWP                                  |
|          |                        |                   | Kootenai   | Restoration  | 199404900                | Kootenai River Ecosystem Improvements Project                                      | Kootenai Tribe                        |
|          |                        | 199500400         |            |              | Libby Mitigation Program | MFWP   |                                       |

| Strategy    | Geo. Rev. Set          | Province                              | Subbasin                              | Emphasis    | Proposal# | Title  | Sponsor         |
|-------------|------------------------|---------------------------------------|---------------------------------------|-------------|-----------|--|-----------------|
| Habitat     | 4.ResFish Blocked Area | Mountain Columbia                     | Kootenai                              | Restoration | 200000400 | Monitor, Protect, and Rehabilitation of Bull Trout and Westslope Cutthroat Trout Habitat in the Upper Kootenay River Subbasin  | Ministry of Env |
|             |                        |                                       |                                       |             | 200200200 | Restore Natural Recruitment of Kootenai River White Sturgeon   | Kootenai Tribe  |
|             |                        |                                       |                                       |             | 200200800 | Reconnect Kootenai River with the historic floodplain  | Kootenai Tribe  |
|             |                        | Upper Snake                           | Snake Headwaters                      | Restoration | 200717000 | South Fork Snake River Yellowstone cutthroat trout recruitment and survival improvement  | IDFG            |
|             |                        |                                       | Snake Upper                           | Restoration | 199201000 | Habitat Imprvmnt/Enhnmnt - Fort Hall, Idaho  | SBT             |
|             | 9.Mountain Snake       | Mountain Snake                        | Clearwater                            | RM&E        | 200700300 | Dworshak Dam Resident Fish Mitigation  | IDFG            |
| Hydrosystem | 1-3. Cat. Only         | Mainstem on the ground/ Multiprovince | Mainstem on the ground/ Multiprovince | O&M         | 198605000 | White Sturgeon Mitigation and Restoration in the Columbia and Snake Rivers Upstream from Bonneville Dam  | ODFW            |
|             | 4.ResFish Blocked Area | Mountain Columbia                     | Flathead                              | RM&E        | 200600800 | Evaluation of the Biological Effects of the Northwest Power and Conservation Council's Mainstem Amend. on the Fisheries Upstream & Downstream of Hungry Horse & Libby Dams, MT (Renumbered fr 200715200) | MFWP            |

| Strategy     | Geo. Rev. Set  | Province             | Subbasin           | Emphasis | Proposal# | Title  | Sponsor                                     |                     |
|--------------|--|----------------------|--------------------|----------|-----------|--|---|---------------------|
| Species RM&E | 4.ResFish Blocked Area   | Intermountain        | Columbia Upper     | RM&E     | 199502700 | Lake Roosevelt White Sturgeon Recovery Project   | Spokane Tribe                               |                     |
|              |  |                      | None Selected      | RM&E     | 199700400 | Resident Fish Stock Status Above Chief Joseph and Grand Coulee Dams  | Kalispel Tribe                              |                     |
|              |  | Middle Snake         | Malheur            | RM&E     | 199701900 | Evaluate the Life History of Native Salmonids in the Malheur Subbasin  | Burns Paiute                                |                     |
|              |  |                      | Snake Upper Middle | RM&E     | 199800200 | Snake River Native Salmonid Assessment   | IDFG  |                     |
|              |  | Mountain Columbia    | Kootenai           | RM&E     | 198806500 | Kootenai R White Sturgeon Inve   | IDFG  |                     |
|              | 7.Plateau South  | Columbia Plateau     | Deschutes          | RM&E     | 200715700 | Bull Trout Status and Abundance Monitoring in the Waters in and Bordering the Warm Springs Reservation, Oregon   | CTWSR                                       |                     |
|              |  |                      | Umatilla           | RM&E     | 200203700 | Freshwater Mussel Research and Restoration Project   | CTUIR                                       |                     |
|              |  | Mainstem/ Systemwide | Systemwide         | RM&E     | 199405400 | Migratory Patterns, Structure, Abundance and Status of Bull Trout Populations in Subbasins of the Columbia Gorge, Columbia Plateau and Blue Mountain Provinces | Oregon Department of Fish & Wildlife (ODFW) |                     |
|              | <b>Resident Fish and Blocked Area Total (three-year average)</b> |                      |                    |          |           |  |   | <b>\$25,710,623</b> |

**5-11. Anadromous Local: Projects Not in Categorical Reviews (sorted by strategy and geography)**

| Strategy | Geo. Rev. Set   | Province         | Subbasin         | Emphasis    | Proposal#   | Title   | Sponsor                               |
|----------|-----------------|------------------|------------------|-------------|-------------|---|---------------------------------------|
| Habitat  | 5.Estuary Gorge | Columbia Estuary | Columbia Estuary | Restoration | 200301100   | Columbia R/Estuary Habitat  | LCREP                                 |
|          |                 |                  |                  |             | 200751300   | Eelgrass Enhancement and Restoration in the Columbia River Estuary Through Innovative Site Selection and Planting Techniques  | Pacific Northwest National Laboratory |
|          |                 |                  |                  | RM&E        | 200300700   | Lower Columbia River and Estuary Ecosystem Monitoring   | LCREP                                 |
|          |                 |                  | Grays            | Restoration | 200301300   | Grays River Watershed Restoration   | CREST                                 |
|          |                 |                  |                  | RM&E        | 200301000   | Historic Habitat Opportunities and Food-Web Linkages of Juvenile Salmon in the Columbia River Estuary and Their Implications for Managing River Flows and Restoring Estuarine Habitat | NOAA                                  |
|          |                 |                  | Columbia Gorge   | Hood        | Restoration | 199802100   | Hood River Fish Habitat               |
|          |                 | Wind             |                  | Restoration | 199801900   | Wind River Watershed Restoration  | Underwood CD                          |
|          |                 |                  |                  |             | 200707700   | Hemlock Dam Removal   | Gifford Pinchot NF                    |
|          |                 | Lower Columbia   | Columbia Lower   | RM&E        | 200500100   | Pilot Study for Research, Monitoring, and Evaluation of Subyearling Salmon in Tidal Freshwater of the Columbia River  | PNNL                                  |

| Strategy | Geo. Rev. Set   | Province               | Subbasin              | Emphasis     | Proposal#  | Title  | Sponsor             |
|----------|-----------------|------------------------|-----------------------|--------------|--|--|---------------------|
| Habitat  | 5.Estuary Gorge | Lower Columbia         | Columbia Lower        | RM&E         | 200752400  | Integrated Non-Lethal Electric Barrier and Sonar System to Deter Marine Mammal Predation on Fish in the Columbia River System: A Demonstration Project | Smith-Root, Inc     |
|          |                 |                        | Sandy                 | Restoration  | 199902500  | Sandy River Delta Habitat Restoration  | USFS                |
|          | 6.Plateau North | Columbia Gorge Plateau | Klickitat             | Restoration  | 199705600  | Klickitat Watershed Enhancement  | Yakama Nation       |
|          |                 |                        | Columbia Lower Middle | RM&E         | 200715600  | Rock Creek Fish and Habitat Assessment for the Prioritization of Restoration and Protection.   | Yakama Nation       |
|          |                 |                        | Yakima                | Coordination | 199405900  | Yakima Basin Environmental Education Program   | Eco-Northwest       |
|          |                 |                        |                       | Protection   | 199206200  | Yakama Nation - Riparian/Wetlands Restoration  | Yakama Nation       |
|          |                 |                        |                       |              | 199705100  | Yakima Basin Side Channels   | Yakama Nation, WDFW |
|          |                 |                        |                       | 200711300    | Cowiche Restoration and Protection Project (Easement/Fee Simple Acquisition) | WDFW   |                     |
|          |                 |                        |                       | 200719400    | Oak Flats Acquisition and Habitat Enhancement                                | WDFW   |                     |
|          |                 |                        |                       | Restoration  | 199200900  | Yakima Phase II/Huntsville Screen Operation & Maintenance  | WDFW                |
|          |                 |                        |                       |              | 199503300  | O&M Yakima Basin Fish Screens  | USBR                |
|          |                 |                        | 199603501             |              | Yakama Reservation Watersheds Project  | Yakama Nation  |                     |

| Strategy | Geo. Rev. Set    | Province         | Subbasin    | Emphasis     | Proposal#                          | Title   | Sponsor                               |
|----------|------------------|------------------|-------------|--------------|------------------------------------|---|---------------------------------------|
| Habitat  | 6. Plateau North | Columbia Plateau | Yakima      | Restoration  | 200202501                          | Yakima Tributary Access & Habitat Program   | South Central WA Res. Cons. and Dev.  |
|          |                  |                  |             |              | 200711200                          | Teanaway Watershed ...  | Kittitas Cons Trust                   |
|          |                  |                  |             |              | 200739800                          | Yakima River Basinwide Tributary/Passage & Flow   | Kittitas County Conservation District |
|          | 7. Plateau South | Blue Mountain    | Asotin      | Restoration  | 199401805                          | Continued Implementation of Prioritized Asotin Creek Watershed Habitat Projects                               | Asotin CCD                            |
|          |                  |                  |             |              | 200205000                          | Continued Riparian Buffer Projects on Couse/Tenmile and other Salmonid Bearing Streams in Asotin County.      | Asotin CCD                            |
|          |                  |                  |             |              | 200205400                          | Protect & Restore the Asotin Creek Watershed  | Nez Perce Tribe DFRM                  |
|          |                  | Columbia Gorge   | Fifteenmile | Restoration  | 199304000                          | Fifteenmile Creek Habitat Restoration and Monitoring Project  | ODFW                                  |
|          |                  |                  |             |              | 200102100                          | 15 Mile Creek Riparian Buffers  | Wasco SWCD                            |
|          |                  | Columbia Plateau | Deschutes   | Restoration  | 199404200                          | Trout Creek Fish Habitat Restoration Project  | ODFW                                  |
|          |                  |                  |             |              | 199802800                          | Trout Creek Watershed Restoration Project   | Jefferson SWCD                        |
|          |                  |                  |             |              | 200201900                          | Wasco Riparian Buffers  | Wasco SWCD                            |
|          |                  |                  | John Day    | Coordination | 200201500                          | Provide Coordination and Technical Assistance to Watershed Councils and Individuals in Sherman County, Oregon | Sherman SWCD                          |
|          |                  |                  |             |              | 200203400                          | Wheeler Co Riparian Buffers   | Wheeler SWCD                          |
|          |                  |                  |             |              | 200203500                          | Gilliam Co Riparian Buffers   | Gilliam SWCD                          |
|          |                  | O&M              |             | 200001500    | Oxbow Conservation Area Management | CTWSR   |                                       |

| Strategy | Geo. Rev. Set    | Province         | Subbasin | Emphasis    | Proposal# | Title   | Sponsor   |
|----------|------------------|------------------|----------|-------------|-----------|---|---|
| Habitat  | 7. Plateau South | Columbia Plateau | John Day | O&M         | 200104101 | Forrest Conservation Area Management  | CTWSR   |
|          |                  |                  |          | Restoration | 198402100 | Mainstem, Middle Fork, John Day Rivers Fish Habitat Enhancement Project               | ODFW  |
|          |                  |                  |          |             | 199306600 | Oregon Fish Screens Project   | ODFW  |
|          |                  |                  |          |             | 199801800 | John Day Watershed Restoration  | CTWSR   |
|          |                  |                  |          |             | 199901000 | Pine Hollow/Jackknife Habitat   | Sherman SWCD  |
|          |                  |                  |          |             | 200003100 | North Fork John Day Basin Anadromous Fish Habitat Enhancement Project                 | CTUIR   |
|          |                  |                  |          |             | 200739700 | John Day Tributary/Passage & Flow   | Confederated Tribes of Warm Springs Reservation of Oregon |
|          |                  |                  | Tucannon | Restoration | 199401806 | Tucannon Stream and Riparian Protection, Enhancement, and Restoration                 | Columbia CD   |
|          |                  |                  |          |             | 199401807 | Improve Habitat For Fall Chinook, Steelhead in the Lower Snake and Tucannon Subbasins | Pomeroy SWCD  |
|          |                  |                  | Umatilla | Restoration | 198343600 | Umatilla Passage O&M  | Westland Irr  |
|          |                  |                  |          |             | 198710001 | Umatilla Anad Fish Hab - CTUIR  | CTUIR   |
|          |                  |                  |          |             | 198710002 | Umatilla Subbasin Fish Habitat Improvement Project                                    | ODFW  |
|          |                  |                  |          |             | 198802200 | Umatilla Fish Passage Operations  | CTUIR   |
|          |                  |                  |          |             | 198902700 | Power Repay Umatilla Basin Project  | CTUIR   |

| Strategy | Geo. Rev. Set       | Province         | Subbasin              | Emphasis    | Proposal#   | Title   | Sponsor   |                                   |
|----------|---------------------|------------------|-----------------------|-------------|-------------|---|---|-----------------------------------|
| Habitat  | 7. Plateau South    | Columbia Plateau | Walla Walla           | Restoration | 199604601   | Walla Walla River Basin Fish Habitat Enhancement                            | CTUIR   |                                   |
|          |                     |                  |                       |             | 200003300   | Walla Walla River Fish Passage Operations                                   | CTUIR   |                                   |
|          |                     |                  |                       |             | 200721700   | Operation and Maintenance for Walla Walla Basin Passage Projects            | Gardena Farms Irrigation Dist   |                                   |
|          |                     |                  |                       |             | 200739600   | Walla Walla Basinwide Tributary Passage and Instream Flow                   | Walla Walla Basin Watershed Council   |                                   |
|          |                     |                  |                       | RM&E        | 200003900   | Walla Walla Subbasin Collaborative Salmonid Monitoring & Evaluation Project | CTUIR   |                                   |
|          | 8. Columbia Cascade | Columbia Cascade | Columbia Upper Middle | Entiat      | Restoration | 200703400   | Columbia Cascade Pump Screen Correction   | WDFW                              |
|          |                     |                  |                       |             | Restoration | 200705500   | Entiat River - UPA - Lower Entiat River Off-Channel Restoration Project                 | Chelan CCD                        |
|          |                     |                  |                       |             |             | 200723100   | UPA Entiat Subbasin Riparian Enhancement Program  | Chelan CCD                        |
|          |                     |                  |                       |             |             | 200731800   | Entiat River - UPA - Knapp-Wham Hanan Detwiler Irrigation System Consolidation Project. | Chelan CCD                        |
|          |                     | Methow           |                       |             | Restoration | 200501000   | EXP UPA Mcpherson Side Channel  |                                   |
|          |                     |                  |                       |             |             | 200600700   | Little Bridge Creek Fence   |                                   |
|          |                     |                  |                       |             |             | 200703500   | UPA Project - Methow Basin Riparian Enhancement   | Methow Salmon Recovery Foundation |
|          |                     |                  |                       |             |             | 200717200   | UPA Project - MVID West Canal Diversion and Headworks                                   | Methow Salmon Recovery Foundation |
|          |                     |                  |                       |             |             |   |   |                                   |



| Strategy | Geo. Rev. Set      | Province         | Subbasin  | Emphasis    | Proposal# | Title   | Sponsor                           |
|----------|--------------------|------------------|-----------|-------------|-----------|---|-----------------------------------|
| Habitat  | 8.Columbia Cascade | Columbia Cascade | Methow    | Restoration | 200721400 | UPA Project - Fender Mill Floodplain Restoration - Phase 1                          | Methow Salmon Recovery Foundation |
|          |                    |                  |           |             | 200723700 | UPA Project - Elbow Coulee Floodplain Restoration                                   | Methow Salmon Recovery Foundation |
|          |                    |                  |           |             | 200725100 | UPA Project - Methow Valley Irrigation District East Diversion Dam Replacement      | Methow Salmon Recovery Foundation |
|          |                    |                  |           |             | 200726400 | UPA Project - Programmatic Habitat Complexity Projects in the Methow River Subbasin | Methow Salmon Recovery Foundation |
|          |                    |                  | Okanogan  | Restoration | 199604200 | Restore and Enhance Anadromous Fish Populations and Habitat in Salmon Creek         | Colville Tribes                   |
|          |                    |                  |           |             | 200000100 | Anadromous Fish Habitat & Pass  | Colville Tribes                   |
|          |                    |                  |           |             | 200714500 | Okanogan Livestock and Water  | Okanogan SCWD                     |
|          |                    |                  |           |             | 200722400 | Implementation of the Okanogan Subbasin Plan ...                                    | Colville Tribes                   |
|          |                    |                  |           |             | 200302200 | Okanogan Basin Monitoring and Evaluation Project (OBMEP)                            | Colville Tribes                   |
|          |                    |                  | Wenatchee | Restoration | 200704200 | UPA Wenatchee Passage Program   | Chelan NRD                        |
|          |                    |                  |           |             | 200708500 | UPA Nason Creek Oxbow Reconnection Project  | Chelan NRD                        |
|          |                    |                  |           |             | 200708600 | UPA Wenatchee Subbasin Riparian Enhancement Proposal                                | Chelan NRD                        |
|          |                    |                  |           |             | 200728300 | UPA Wenatchee Subbasin Access Proposal  | Chelan NRD                        |

| Strategy | Geo. Rev. Set      | Province                                 | Subbasin                                 | Emphasis     | Proposal#   | Title   | Sponsor         |
|----------|--------------------|--|--|--------------|---|---|-----------------|
| Habitat  | 8.Columbia Cascade | Columbia Cascade                         | Wenatchee                                | Restoration  | 200732500   | UPA Wenatchee Subbasin Complexity Proposal    | Chelan NRD      |
|          |                    |  |  |              | 200740000   | UPA? Wenatchee Basinwide Passage              |                 |
| Habitat  | 9.Mountain Snake   | Mainstem on the ground/<br>Multiprovince | Mainstem on the ground/<br>Multiprovince | Coordination | 199706000   | Focus Watershed Coordinator - Nez Perce Tribe | Nez Perce Tribe |
|          |                    |  |  | Coordination | 199608600   | Clearwater Focus Program, Idaho SCC           | ID Soil Cons    |
|          |                    | Restoration                              | Clearwater                               | 199607702    | Protect and Restore Lolo Creek Watershed                              | Nez Perce Tribe DFRM                          |                 |
|          |                    |  |  | 199607703    | Protect and Restore Waw'aalamnime to 'Imnamatnoon Creek Analysis Area | Nez Perce Tribe DFRM Watershed Division       |                 |
|          |                    |  |  | 199607705    | Restore McComas Meadows/ Meadow Creek Watershed                       | Nez Perce Tribe DFRM                          |                 |
|          |                    |  |  | 199901500    | Big Canyon Fish Habitat   | Nez Perce SCWD                                |                 |
|          |                    |  |  | 199901600    | Protect & Restore the Big Canyon Creek Watershed                      | Nez Perce Tribe DFRM                          |                 |
|          |                    |  |  | 199901700    | Protect and Restore Lapwai Creek Watershed                            | Nez Perce Tribe DFRM                          |                 |
|          |                    |  |  | 200003500    | Rehabilitate Newsome Creek - S  | Nez Perce Tribe                               |                 |
|          |                    |  |  | 200003600    | Protect And Restore Mill Creek  | Nez Perce Tribe DFRM                          |                 |
|          |                    |  |  | 200206100    | Restore Potlatch R Watershed  | Latah SWCD                                    |                 |
|          |                    |  |  | 200207000    | Lapwai Cr Anadromous Habitat  | Nez Perce SCWD                                |                 |
|          |                    |  |  | 200207200    | Protect & Restore Red River Watershed                                 | Nez Perce Tribe                               |                 |
|          |                    |  |  | 200739500    | Protect and Restore the Upper Lochsa Watershed                        | Nez Perce Tribe                               |                 |

| Strategy            | Geo. Rev. Set    | Province       | Subbasin                         | Emphasis    | Proposal#                                       | Title   | Sponsor              |
|---------------------|------------------|----------------|----------------------------------|-------------|---|---|----------------------|
| Habitat             | 9.Mountain Snake | Mountain Snake | Salmon                           | Restoration | 199401500                                       | Idaho Fish Screening and Passage Improvements   | IDFG                 |
|                     |                  |                |                                  |             | 199901900                                       | Restore Salmon River (Challis, Idaho)   | Custer SWCD          |
|                     |                  |                |                                  |             | 200205900                                       | Yankee Fork Salmon River Dredge Tailings Restoration Project  | SBT                  |
|                     |                  |                |                                  |             | 200706400                                       | Protect and Restore Slate Creek   | Nez Perce Tribe DFRM |
|                     |                  |                |                                  |             | 200712700                                       | Reestablish Connectivity and Restore Fish Habitat in the East Fork of the South Fork Salmon River Watershed | Nez Perce Tribe DFRM |
|                     |                  |                |                                  |             | 200726800                                       | Idaho Watershed Habitat Restoration Project via Custer Soil and Water Conservation District                 | Custer SWCD          |
|                     |                  |                |                                  |             | 200739400                                       | Idaho Watershed Habitat Restoration Lemhi County  | TBD                  |
|                     |                  |                |                                  |             | 200739900                                       | Upper Salmon Screen Tributary Passage   | IDF&G                |
|                     | RM&E             | 199405000      | Salmon River Habitat Enhancement | SBT         |   |   |                      |
|                     | 10.Blue Mountain | Blue Mountain  | Grande Ronde                     | Restoration | 198402500                                       | ODFW Blue Mountain Oregon Fish Habitat Improvement  | ODFW                 |
|                     |                  |                |                                  |             | 199202601                                       | Grand Ronde Model Watershed Program Habitat Restoration - Planning, Coordination and Implementation         | GRMW                 |
| 199608300           |                  |                |                                  |             | CTUIR Grande Ronde Subbasin Restoration Project | CTUIR   |                      |
| Grande Ronde/Imnaha |                  |                | Restoration                      | 200739300   | NPT Protect and Restore NE OR                   | Nez Perce Tribe   |                      |

| Strategy           | Geo. Rev. Set  | Province         | Subbasin           | Emphasis    | Proposal# | Title   | Sponsor                     |
|--------------------|--|------------------|--------------------|-------------|-----------|---|-----------------------------|
| Habitat            | 10.Blue Mountain                                     | Blue Mountain    | Tucannon           | Restoration | 200751600 | Enhancing Summer Instream Flow and Reducing Temperature in Agricultural Watersheds                | Washington State University |
| Hydrosystem        | 9.Mountain Snake                                     | Mountain Snake   | Salmon             | RM&E        | 199102800 | Pit Tagging Wild Chinook  | NOAA                        |
| Species RM&E       | 7.Plateau South                                      | Blue Mountain    | Asotin             | RM&E        | 200205300 | Assess Salmonids Asotin Cr Ws   | WDFW                        |
|                    |  | Columbia Plateau | Deschutes          | RM&E        | 200201600 | Evaluate the Status of Pacific Lamprey in the Lower Deschutes River Subbasin, Oregon              | CTWSR                       |
|                    |  |                  | John Day           | RM&E        | 199801600 | Salmonid Productivity, Escapement, Trend, and Habitat Monitoring □ in the John Day River Subbasin | ODFW                        |
|                    |  |                  | Umatilla           | RM&E        | 199402600 | Pacific Lamprey Research and Restoration Project  | CTUIR                       |
|                    | 9.Mountain Snake                                     | Mountain Snake   | Clearwater         | RM&E        | 200723300 | Distribution and Abundance Monitoring of Oncorhynchus mykiss within the Lower Clearwater Subbasin | Nez Perce Tribe DFRM        |
|                    | 10.Blue Mountain                                     | Blue Mountain    | Grande Ronde       | RM&E        | 200708300 | Grande Ronde Cooperative Salmonid Monitoring and Evaluation Project                               | CTUIR                       |
|                    |  |                  | Snake Hells Canyon | RM&E        | 199801003 | Spawning distribution of Snake River fall Chinook salmon  | USFWS                       |
|                    | <b>Anadromomous Local Total (three-year average)</b> |                  |                    |             |           |   |                             |
| <b>Grand Total</b> |  |                  |                    |             |           |   | <b>\$142,631,934</b>        |