The Fish Passage Center
Annual Report of Accomplishments
2005

Submitted To
The Fish Passage Center Oversight Board
December 1, 2005
The Fish Passage Center (Center) was first established in 1984 by agreement of the Columbia River Intertribal Fish Commission and the National Marine Fisheries Service on behalf of the Basins tribes and the Columbia Basin Fish and Wildlife Council. The Center originally housed two Water Budget managers and provided them with administrative support. The two water budget managers were a component of the Water Budget measures included in the Northwest Power Planning Council’s first Fish and Wildlife Program adopted in 1982. One Water Budget Manager represented the basin’s tribes and the other represented the state and federal fish and wildlife managers.

Since 1982, the Fish and Wildlife Program has directed that BPA provide funding for the functions carried out by the Fish Passage Center. The Center serves a large number of significant data gathering and analytical functions including the design and oversight of the implementation of the Smolt Monitoring Program, the Gas Bubble Trauma Monitoring Program, and the Comparative Survival Study. The Center provides a non-federal pool of expertise in assessing the effects of dam operations of Columbia Basin salmon, including analysis of juvenile salmon survival related to flow, spill, gas super saturation and passage routes. Tribal and states fishery managers rely heavily on this expertise and have managed their own staffs accordingly. The Center provides a wide range of data and information through its website, including daily fish passage data, historical data and an archive of relevant documents.

In 2003 the Northwest Power Conservation Council adopted the Fish and Wildlife Program Amendments. These amendments established the primary purpose of the Center as the provision of technical assistance and information to the fish and wildlife agencies and tribes in particular and the public in general on matters related to juvenile and adult salmon and steelhead passage through the mainstem hydrosystem. The amendments describe the duties of the Center including the responsibility to:

1) Plan and implement the annual Smolt Monitoring Program;
2) Gather, organize, analyze, house and make widely available, monitoring and research information related to juvenile and adult passage, and to the implementation of the water management and passage measures that are part of the Council’s program;
3) Provide technical information necessary to assist the agencies and tribes in formulating in-season flow and spill requests that implement the water management measures of the

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1 At the time the four Columbia River Treaty tribes were not members of the Columbia Basin Fish and Wildlife Council. Subsequently the Columbia Basin Fish and Wildlife Council was dissolved and the Columbia Basin Fish and Wildlife Authority was established which included expanded membership including the Basin tribes.
Council’s program, while also assisting the agencies and tribes in making sure that operating criteria for storage reservoirs are satisfied; and

4) In general, provide the technical assistance necessary to coordinate recommendations for storage reservoir and river operations that, to the extent possible, avoid potential conflicts between anadromous and resident fish.

The 2003 amendments also created an oversight board for the Fish Passage Center that among other things helps to assure the quality of data reported by the Center and the responsiveness of the Center to input from the Northwest Power and Conservation Council.

*Upper Hardy Creek – Chum Salmon Spawning Area*
The Year In Review

The Fish Passage Center Project, the Smolt Monitoring Program project and the Comparative Survival Study project were all affected by budget constraints, which applied to all Fish and Wildlife Program projects. The dynamic nature of the regional Fish and Wildlife Program, the Biological Opinion implementation, operations of the hydro system for fish passage and the technical support required by the state, federal and tribal fishery managers required a high level of responsiveness and flexibility from the Fish Passage Center. In many ways 2005 was an extraordinary year placing unanticipated demands on the Fish Passage Center project.

The Smolt Monitoring Program

The Smolt Monitoring Program (SMP) was successfully implemented according to the plan agreed upon by the state, federal and tribal fishery agencies to provide a consistent, long term database for short term in-season fish passage management and for long term mitigation decisions. The FPC staff provides daily oversight and technical support for remote sites implementing the SMP. Final data and analysis of the SMP data are reported in the Fish Passage Center Annual Report. Data validation and verification and data analysis occur throughout the fall and winter and are presented in the FPC Annual Report the following year. SMP data collection continues through October 31 at most main stem sites. The FPC Annual Report for the 2004 passage season was completed after providing a draft for regional review. It was distributed and posted on the FPC website, along with previous years reports.

The FPC daily oversight and technical support for SMP sampling sites included oversight requirement of the Oregon Department of Environmental Quality and Washington Department of
Ecology waivers issued for implementation of the NOAA Biological Opinion spill for fish passage measures. The FPC provides a separate report; an annual summary of GBT data to the US Army Corps of Engineers and to NOAA Fisheries to fulfill states’ issued dissolved gas waiver permits. This annual report summary was completed and provided to the agencies for incorporation into their 2005 passage season report requirements.

The development of the plan for implementation and the work statements and budgets for the SMP for 2006 was completed in 2005. Discussion with the state, tribal and federal fishery managers took place and FPC staff has begun coordinating the necessary logistics for marking and sampling at remote trap and mainstem sites in 2006, including discussions with agencies and tribes implementing the sampling programs.

**Comparative Survival Study**

The Comparative Survival Study (CSS) is a jointly developed and sponsored program of the state, tribal and federal fishery management agencies. A CSS Oversight Committee comprised of state, federal and tribal fishery management agencies has been established to provide technical direction for data collection, analysis and preparation of annual status reports. In addition, Independent Scientific Review Panel review comments have significantly determined the specific tasks that were addressed this year. These specifically addressed the development of a simulation model to test the effect of cohort selection. The CSS has multiple applications including in-season monitoring, hatchery specific survival data, and long-term development of smolt to adult return rates by routes of passage for spring chinook. The agencies and tribes and the Northwest Power and Conservation Council have proposed and approved the addition of steelhead mark groups to the CSS. Lack of funding for the additional purchase of tags and marking has to-date precluded the addition of the proposed steelhead mark groups to the CSS.

The FPC staff developed a simulator Program for the CSS as a result of review comments by the ISRP. The simulator program is designed to evaluate the robustness of the Cormack-Jolly-Seber methodology utilized in the CSS, by creating simulated datasets with user controlled input parameters of reach survival, collection efficiency, travel time and other passage parameters. This work is documented in the Annual CSS Status Report prepared by the FPC as directed by the CSS Oversight Committee. SARs by passage routes, delayed mortality, juvenile survival are all reported in the CSS Annual Status Report. In addition timing and juvenile survival of CSS mark groups is reported in the Fish Passage Center Annual report, summarizing the SMP data.

The FPC staff has developed the plan and work statement for the CSS project for 2006 including the marking and logistics with participating hatcheries and agencies and tribes implementing the marking. Coordination with the PITAGIS data system has also been accomplished for the 2005/6 migrations.
Endangered Species Act Section 10 Permit and State Endangered Species Act Permit Requirements

The FPC staff is responsible for application, accounting and reporting for federal and state ESA sampling and monitoring permits for the Smolt Monitoring Program and the Comparative Survival Study. Estimated numbers of endangered and or threatened species to be handled are submitted to the permitting authority. Permit applications and reporting were completed. Application, accounting and reporting requirements for state and federal ESA permits were met in 2005.

Adult Facilities Inspection Program

The state and federal fishery management agencies fund the FPC Adult Fish Passage Facilities Inspection Program. FPC staff manages the agencies adult facilities inspection program. The FPC staff trains and coordinates fish facilities inspections at federal and Public Utility mainstem Columbia and Snake rivers dams. Inspections are conducted monthly often accompanied by FPC staff. Monthly reports are provided to the FPC. Facility issues that arise as the result of inspections are raised to the project operators by the FPC for discussion and resolution. FPC produces an Annual Adult Facilities Inspection report. The Annual Adult Facilities Inspection Report for 2004 was completed in 2005 and is posted on the FPC website with previous years’ reports. The DRAFT 2005 report will be completed by December 15, 2005 for review and comment.

WDFW Inspector at Ice Harbor Dam during high spill conditions.

Bonneville Fish Ladder – Large sea lion recorded at fish count station in April 2005.

Inspection of Rock Island New Powerhouse aux water screens
Data Acquisition, Storage, Analysis and Distribution

The NPCC 2003 Program Amendment specifically requires the FPC to, "Gather, organize, analyze, house, and make widely available monitoring and research information related to juvenile and adult passage, and to the implementation of the water management and passage measures that are part of the Council's program." The FPC Data System is comprised of several databases that are maintained and updated hourly, daily, weekly, monthly, and annually. These databases are utilized by the state, tribal, and federal fisheries agencies for in-season management deliberations and decisions so they must be accurate with the most recent information available. Smolt passage data, flow, spill, and adult counts are updated daily. The hatchery release database is continually updated through daily discussions between FPC staff and hatchery managers. Ives Island natural spawning area data is updated hourly, as is environmental data for the Walla Walla River. All of these databases were successfully maintained and updated without lapse in 2005. In 2005, many upgrades, improvements, and modifications were made to the FPC data system to facilitate meeting the needs of the agencies, tribes, and the public at large.

Data System upgrades, improvements, and modifications for 2005:

- Modified hatchery database acquisition, storage, and distribution system to allow for storage of internal and external marks, improved reporting, improved data entry.
- Improved web based metadata for all datasets.
- Developed and deployed new laptop SMP interface for Nez Perce tribal fisheries, provided technical support for Nez Perce tribal fisheries Database. Developed new protocol for SMP data entry of PIT tagged fish.
- Developed new validation reports for Nez Perce SMP data, as well as a suite of applications for SMP data management.
- Developed improved PIT tag data input, storage, and analysis systems.
- Developed improved daily acquisition of flow, spill, and reservoir elevation data.
- Acquired improved desktop publishing software for weekly and annual reports.
- Developed new adult count data acquisition system for new USACE adult data system, new Chelan County adult data system, and new ODFW Willamette Falls adult data system.

Analytical Tools

- Improved analysis software for Hanford Reach redd dewatering estimates.
- Repaired and upgraded USFWS salmon cam at Little White Salmon Hatchery.
- Improved BEAMS bootstrap software module to calculate SARS across the basin from any starting and ending point.
- Improved BEAMS simulator software module to calculate all parameters to three decimal places.

Website Improvements:

- Developed new comparative adult return report that provides the latest data without intervention, improved automatic adult data acquisition system to gather more timely adult return data from the Mid-Columbia PUDs and Willamette Falls.
- Developed all new web site, revised every web site page and every web site query, providing more intuitive navigation to all available data.

Hardware Improvements
- Upgraded main network file server.
- Incorporated donated BPA servers into data center.
- Split main network file server into two servers, for improved reliability and maintenance.
- Built new high capacity, high speed server to improve modeling efforts.
- Maintained all FPC computers, maintained all infrastructure hardware and software.
- Deployed Linux to replace some instances of Windows.

Also added new features to the following software/hardware applications:

<table>
<thead>
<tr>
<th>ID</th>
<th>Project Name</th>
<th>Description</th>
<th>Source Code Location</th>
<th>Physical Location</th>
<th>Automation</th>
<th>Tips</th>
</tr>
</thead>
</table>
| 1  | ChartGenerator  
(GetMailData.exe) | Application to check e-mail, unzip report and generate .tee files for TChart ActiveX Web Page Component | MOBYDICK\DATA\STAFF\Sergie\Backup\VBProjects\ChartGenerator | FISHPUMP | Yes. Runs from scheduled job. | 1 |
| 2  | Collector  
(prjCollector.exe) | Application to collect request from different web pages with csv and jpg output into SQL3 fpcPageHits table | MOBYDICK\DATA\STAFF\Sergie\Backup\VBProjects\Collector | FISHPUMP | Yes. Runs from scheduled job depends on time of the day. | |
| 3  | GetDataProject  
(GetDataProject.exe) | Application to generate travel time and burnham code for annual and CSS reports from register Tag ID PTAGIS Report | MOBYDICK\DATA\STAFF\Sergie\Backup\VBProjects\CSS | FISHPUMP | | |
| 4  | Fish Analyst  
(TomDataCss.exe) | Tom’s application to generate annual and CSS report. | MOBYDICK\DATA\STAFF\Sergie\Backup\VBProjects\TomDataCSS | GILA2, HALFMOON | | |
| 5  | HatcheryRelease  
(LarryGUI.exe) | Larry’s Hatchery Release UI to maintain hatchery fish | MOBYDICK\DATA\STAFF\Sergie\Backup\VBProjects\HatcheryRelease | CHUB | | |
| 6  | NPFishRda  
(NPFishRda.vb) | Nez Perce Data Entry Program | MOBYDICK\DATA\STAFF\Sergie\Backup\WindowsCE\NpfRda | NP Pocket PC | | |
<table>
<thead>
<tr>
<th></th>
<th>Description</th>
<th>Folder Structure</th>
<th>SQL3</th>
<th>Frequency</th>
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</thead>
<tbody>
<tr>
<td>7</td>
<td>FileCollector.exe</td>
<td>Application to collect adults counts from different web pages into SQL3 PITTAG.HistFishTwo table, generates histfishtwo_7day-ytd_Adults.htm, and 7day-ytd_Adults.htm web pages into CurrentDaily folder on BLUEBACK</td>
<td>MOBYDICK \DATA\STAFF\Sergie\Backup\VBProjects\NewFile Collector</td>
<td>FISHPUMP Yes. Runs from schedule d job depend on day of the week and time.</td>
</tr>
<tr>
<td>8</td>
<td>FishTChart.exe .NET</td>
<td>Makes chart images for PITTAG counts web pages</td>
<td>MOBYDICK \DATA\STAFF\Sergie\Backup\FishTChart</td>
<td>SQL3 Yes. Runs from Every 1 hour</td>
</tr>
<tr>
<td>9</td>
<td>NETTempgraph.aspx .NET Application</td>
<td>ASP.NET Temperature charts</td>
<td>BLUEBACK \inetpub\wwwroot \tempgraph</td>
<td>SWORDFISH</td>
</tr>
<tr>
<td>10</td>
<td>WebForm.dll .NET Application</td>
<td><a href="http://www.fpc.org/WebForm/DailyChartsNETA.aspx?MigrYear=2004">http://www.fpc.org/WebForm/DailyChartsNETA.aspx?MigrYear=2004</a> and the rest of ASP.NET PITTAG counts</td>
<td>MOBYDICK \DATA\STAFF\Sergie\Backup\WebForm</td>
<td>SWORDFISH</td>
</tr>
<tr>
<td>11</td>
<td>FishSpider.NET .NET Application</td>
<td>Process PITTAG export files from ftptoot 1/2/3/ etc. folders (parsing and posting into Fish Data Base)</td>
<td>MOBYDICK \DATA\STAFF\Sergie\Backup\FISHSpider\FISHSpider</td>
<td>SQL3 Original version</td>
</tr>
<tr>
<td>12</td>
<td>FishPumpKeeper.exe</td>
<td>Makes remote reboot of FISHPUMP PC when PC is down</td>
<td>MOBYDICK \DATA\STAFF\Sergie\Backup\FishPumpKeeper</td>
<td>SQL3 Yes. Runs from schedule</td>
</tr>
<tr>
<td>13</td>
<td>FishExpressClient.NET .NET Application</td>
<td>Multi unit Desktop/Laptop version of Fish Data Entry application. Using Client SQL Server to keep Fish data base records.</td>
<td>MOBYDICK \DATA\STAFF\Sergie\Backup\FishExpressClient</td>
<td>FPC_Laptop Version 1</td>
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<tr>
<td>14</td>
<td>AuditEMailEngine (AuditEMailEngine .dll)</td>
<td>Checks integrity of tbl_hatchery_rel of fpc database and sending emails to recipients in case of errors</td>
<td>MOBYDICK \DATA\STAFF\Sergie\Backup\VBProjects\AuditEMailEngine</td>
<td>SQL3 Yes. Runs from schedule</td>
</tr>
<tr>
<td>15</td>
<td>DBDeploy</td>
<td>Creates empty database Tables and storage procedures on client PC for FishExpressClient application (Application #13)</td>
<td>MOBYDICK \DATA\STAFF\Sergie\Backup\DBDeploy</td>
<td>FPC_Laptop GREENFISH MyProjects Folder on G:</td>
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<tr>
<td>16</td>
<td>Fish Sync 1.0 .NET</td>
<td>Sync records between Client NPFish and Server NPFish Databases using .Net Remoting</td>
<td>MOBYDICK \DATA\STAFF\Sergie\Backup\MyProjects\FishExpressSync</td>
<td>G:\MyProjects \FishExpressSync,FishSync.sln</td>
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<tr>
<td>17. FTPClient</td>
<td>Uploads files from client with P3 application to SQL Server running FishSpider</td>
<td>MOBYDICK \DATA\STAFF\Sergie\Backup\FISHSpider\FTPService</td>
<td>FPC_Laptop GREENFISH MyProjects Folder on G:</td>
<td></td>
</tr>
<tr>
<td>18. HatcheryRelease (ReleaseGUI-2.exe)</td>
<td>Larry's Hatchery Release UI Version 2 hatchery fish Data entry program</td>
<td>MOBYDICK \DATA\STAFF\Sergie\Backup\VBProjects\HatcheryRelease-2</td>
<td>CHUB</td>
<td></td>
</tr>
<tr>
<td>19. LocalFishSpider.exe</td>
<td>Process text P3 P/TAG export files from P3 folders like C:\Program Files\PTAGIS\P3 (parsing and posting into Local Client Data Base) And merge them with Batch files from FishExpressClient.NET (Application #13)</td>
<td>MOBYDICK \DATA\STAFF\Sergie\Backup\MyProjects\FishBowl\LocalFishSpider</td>
<td>GREENFISH MyProjects\FishBowl\LocalFishSpider Folder on G:</td>
<td></td>
</tr>
<tr>
<td>20. Fish Express Data Entry program 2.0</td>
<td>Multi unit Desktop/Laptop version of Fish Data Entry application. Using Client SQL Server to keep Fish data base records.</td>
<td>FPC_Laptop G:\MyProjects \FishExpressClient\FishExpress.sln</td>
<td>Version 2 7</td>
<td></td>
</tr>
<tr>
<td>21. FSDBSetup.exe</td>
<td>Creates empty database Tables and storage procedures on client PC for Local Fish Spider application (Application #19)</td>
<td>MOBYDICK \DATA\STAFF\Sergie\Backup\MyProjects \FSDBClientDeploy</td>
<td>G:\MyProjects \FSDBClientDeploy\FSDBClientDeploy.sln</td>
<td>Current version</td>
</tr>
</tbody>
</table>
Web Improvements

Revised the entire website to improve navigation and loading times as well as making the website easier to maintain by utilizing templates, cascading stylesheets, server side includes and dynamic html. The website was divided into seven zones: homepage, adult data, smolt data, spawning, river data, hatchery and documents. Each zone has its own navigation bar.
1. Improved navigation for spawning data by making a separate page for photos, seining data, spawning, stranding, trapping, etc. so that the data is easier to find.
2. Added fisherman’s link page to assist the public in finding all pertinent fishing data.
3. Added a new asp page to show comparison between current year adult ladder counts, previous year and ten-year average. This page directly accesses the database so is always current.

### Weekly Adult Return Comparison Report

<table>
<thead>
<tr>
<th></th>
<th>Spring Chinook</th>
<th>Summer Chinook</th>
<th>Fall Chinook</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date</td>
<td>Adult</td>
<td>Jack</td>
<td>Adult</td>
</tr>
<tr>
<td>BON 11/15</td>
<td>70.38</td>
<td>428.1</td>
<td>710.52</td>
</tr>
<tr>
<td>TDA 10/11</td>
<td>68.95</td>
<td>329.8</td>
<td>1302.4</td>
</tr>
<tr>
<td>IDA 10/11</td>
<td>56.77</td>
<td>213.8</td>
<td>1123.0</td>
</tr>
<tr>
<td>MCN 10/11</td>
<td>51.26</td>
<td>308.1</td>
<td>1074.9</td>
</tr>
<tr>
<td>DVR 10/11</td>
<td>280.09</td>
<td>1247.7</td>
<td>7716.1</td>
</tr>
<tr>
<td>LLS 10/11</td>
<td>59.33</td>
<td>1077.1</td>
<td>7378.7</td>
</tr>
<tr>
<td>WSL 10/11</td>
<td>239.28</td>
<td>92.5</td>
<td>6248.5</td>
</tr>
<tr>
<td>LSR 11/19</td>
<td>60.06</td>
<td>1257.8</td>
<td>70742.7</td>
</tr>
<tr>
<td>JRR 11/15</td>
<td>141.86</td>
<td>515.5</td>
<td>13521.1</td>
</tr>
<tr>
<td>RRS 11/15</td>
<td>1195.0</td>
<td>508.1</td>
<td>10718.9</td>
</tr>
<tr>
<td>MHR 11/14</td>
<td>456.8</td>
<td>417.5</td>
<td>4835.4</td>
</tr>
<tr>
<td>WFL 11/15</td>
<td>4017.8</td>
<td>89.6</td>
<td>4012.5</td>
</tr>
<tr>
<td>WFA 11/15</td>
<td>3546.9</td>
<td>1180.9</td>
<td>90321.9</td>
</tr>
</tbody>
</table>

**NOTES:**
- BON=Bonneville, TDA=The Dalles, IDA=John Day, MCN=McCoy, LMD=Lower Monumental, LGS=Lewiston Granite, LGR=Lower Granite, PES=Lower Granite, RID=Rock Island, RRR=Rogue River Reach, WFL=Wallowa, WFA=Wallowa Falls
- End Date is the last day of data we have for that site - 2004 and 10 year average (1995 to 2004) are also run to this end date.
- FED is not posting wild steelhead number.
- These numbers were collected from USACE, Grant PUD, Douglas PUD, ODFW and DART
- Wild steelhead numbers are included in the total. Wild Steelhead are defined as uncleared fish.
- Historic counts (pre-1996) were obtained from CRITFC and compiled by the FPC.
4. Revised the site map and organized it by the seven zones of our website.
Technical Assistance and Information to Fish and Wildlife Agencies and Tribes and the Public in General

The primary purpose of the Fish Passage Center is to provide technical assistance and information to fish and wildlife agencies and tribes in particular and the public in general. In 2005 analyses were conducted and presented to the agencies and tribes as requested to facilitate their activities in a wide range of forums related to fish passage and hydro system management. These analyses were made available to the public at large as they were completed; they were posted on the FPC website to provide access to the region.

Several in-season analyses were completed regarding reservoir storage, impacts of specific operations of reservoirs on migration flows. These were provided to the Fish Passage Advisory Committee and posted on the FPC website. FPC staff participated in the Water Quality Team meetings of the Regional Forum providing analysis and recommendations to the agencies and tribes regarding location of total dissolved gas monitors to more accurately reflect migrating fish exposure to total dissolved gas and a review of total dissolved gas measurement needs in the Lower Columbia River.

In response to requests from the fishery agencies and tribes, the FPC staff provided historic data summaries, research results, analytical results to the agencies and tribes and review comments on various proposed hydro system operations as they potentially affect fish passage and survival. Specifically, a review of the court ordered spill implementation plan and an analysis on the effects of the implementation of the court ordered summer spill program was conducted. Regular updates were provided in season on the migration characteristics of juvenile and adult salmonids during the spring season and particularly during the implementation of the court ordered spill.

The FPC staff provided review comments on research proposals and research reports as requested by the agencies and tribes. These were proposed or conducted through the BPA Fish and Wildlife Program process and the US Army Corps of Engineers Anadromous Fish Passage Evaluation Program. Specifically, the FPC staff provided technical assistance to the agencies and tribes in the development and review of research proposals. As well as provide assistance in reviewing results of research used to make management decisions regarding modifications to dam’s structure or operations.
All FPC staff participate in the development of weekly reports from March through October. These weekly reports summarize river and reservoir operations, as well as fish passage information. The reports document any unplanned or planned excursions from the implementation of Biological Opinion measures. The report is distributed via email and paper copy, as well as being posted on the FPC website. The estimated circulation is about 750 readers.

All FPC staff participate in the development of the Annual Fish Passage Center Report. This report serves as historic information relative to the annual operation and management of the hydro system. The report summarizes hydrologic conditions, reservoir operations throughout the water year and focuses on the resulting flows during the migration period. The report also summarizes annual spill operations as provided under the 2004 Biological Opinion spill measures. Annual fish passage metrics; passage indices, passage timing, smolt travel time and survival are presented and discussed along with past years’ information collected under varying environmental parameters. The Annual Report also presents annual and historic adult passage information and yearly hatchery information.

Documents completed by FPC in the 2004 contract year

The culmination of all aspects of the FPC project staff work is presented in several annual, weekly and periodic documents prepared in response to requests. The documents completed in 2005 are listed below and are all available on the FPC website at www.fpc.org.

- Fish Passage Center Annual Report
- Annual Comparative Survival Study Status Report
- Annual Adult Facilities Inspection Report
- Weekly Reports
- Gas Bubble Trauma Monitoring Summary
- Fish passage Center Accomplishments Annual Report
- Review of University of Washington's presentation entitled "Injunctive Spill Retrospective Analysis" - November 18, 2005
- Preliminary Survival Analysis for Subyearling Chinook originating above LGR - October 25, 2005
- Libby Operations Review and Preliminary Analysis - October 25, 2005
- Timing Estimation of Juvenile Salmonid Migration at Lower Granite Dam - October 21, 2005
- Response to PNGC and Northwest River Partners Comments on FPC Preliminary In-River Survival Analysis - October 5, 2005
- Snake River Summer Spill Analysis through August 31, 2005 at Lower Granite Dam - September 16, 2005
- Origin (Hatchery or Wild) of run-at-large at LGR in August - August 16th, 2005
- Update of Adult Passage in the Snake River - 08/08/2005
- Juvenile passage update - 8/01/2005
- Update of Adult Passage in the Snake River - 07/28/2005
- Juvenile passage update - 7/28/2005
Preliminary Review of 2005 Spring Migration - 07/20/05
McNary Subyearling Cumulative Passage Index Plot Adjusted Total - 07/13/05
Projected Flow Impact of Montana SOR for Libby and Hungry Horse - 07/13/05
Adult Passage in the Snake River - 07/07/05
Preliminary Estimates of Collection Efficiency and Transportation Proportion for Subyearling Chinook originating above Lower Granite Dam 2005 - 07/06/05
Review of Court Ordered Spill Implementation Plan - 06/16/05
Fall Chinook Overwintering - 05/10/2005
Data request for historical operations - 05/03/05
Data request for flow conditions experienced by the 2001 and 2005 spring Chinook adult returns - 04/19/05
Data request for estimated proportion of Snake River yearling migrants transported annually since 2000 - 03/09/05

Financial Summary

A substantial amount of time and effort this year was spent in trying to complete work statement tasks within the flat funding budget requirements for 2005. We also prepared and submitted a flat funded budget for 2006. Expenditures are closely monitored on an ongoing basis to assure that we stay within the budget guidelines.

The FPC budget has historically been developed in an extremely conservative manner to the minimum required funding to carry out assigned tasks. Since the FPC budget has been managed extremely close to actual costs, there has not been any margin of flexibility in the budget to meet rising costs of the past two years under the present flat funding policy. Health care, rent and personnel cost increases have occurred and are unavoidable. Personnel costs make up 75% of the FPC budget. The FPC is administered by PSMFC in accordance with the federal wage and grade standards, cost of living and merit increases followed by federal agencies including BPA, which are established by the Federal Office of Management and Budget.

BPA PISCES System

Conversion of the 2005 FPC, CSS and SMP Work Statements into the BPA “Work Element/Milestone” based project management and reporting system (Pisces) was completed as required by the deadline of May 31, 2005. FPC staff met with BPA staff to coordinate and discuss these submittals. This was a very time consuming project in large part because of the design of the Pisces system. Pisces appears to be designed primarily for habitat projects in specific locations. Projects like the SMP, CSS and FPC that provide information basis for real time and long term fish passage management decisions, and the mainstem province do not fit well into the Pisces system.