



## Department of Energy

Bonneville Power Administration  
P.O. Box 3621  
Portland, Oregon 97208-3621

FREEDOM OF INFORMATION ACT/PRIVACY PROGRAM

June 11, 2020

In reply refer to: FOIA #BPA-2020-00199-F

Andrew Missel  
Advocates for the West  
3701 SE Milwaukie Ave., Ste. B  
Portland, OR 97202  
Email: [amissel@advocateswest.org](mailto:amissel@advocateswest.org)

Dear Mr. Missel,

This communication is the Bonneville Power Administration's (BPA) second partial response to your request for records, submitted to the agency under the Freedom of Information Act, 5 U.S.C. § 552 (FOIA). Your request was received on November 18, 2019, and formally acknowledged on December 6, 2019. A first partial release of records responsive to your request was sent to you on March 2, 2020.

### Request

"...the records described below pertaining to the Bonneville Power Administration's ("BPA") spending on its Fish and Wildlife program:

1. All financial and other records containing or comprising a breakdown or accounting—by category, project, action, and/or activity—of expenses or costs related to BPA's Fish and Wildlife program in fiscal year ("FY") 2016, FY 2017, FY 2018, and FY 2019.
2. Any communications between BPA and the Northwest Power and Conservation Council ("Council") related to the Council's preparation of its "Governors Reports" for FY 2016, FY 2017, FY 2018, and FY 2019, including any records BPA sent to or shared with the Council in connection with the Governors Reports."

### Second Partial Response

BPA has searched for and gathered records responsive to your request. In an effort to both accommodate the review of the large volume of responsive records, and to provide the records expediently, within the limitations of available agency resources, BPA is releasing responsive records to you in installments—as permitted and promoted by the FOIA. A second partial release of responsive records accompanies this communication. This release comprises all records responsive to part two of your request, i.e., communications between BPA and the Council.

BPA is releasing 362 pages, with six redactions applied under 5 U.S.C. § 552(b)(2) (Exemption 2), and 160 redactions made under 5 U.S.C. § 552(b)(6) (Exemption 6). Explanations of the applied exemptions follows.

**Explanation of Exemptions**

The FOIA generally requires the release of all agency records upon request. However, the FOIA permits or requires withholding certain limited information that falls under one or more of nine statutory exemptions (5 U.S.C. §§ 552(b)(1-9)).

**Exemption 2**

Exemption 2 protects information related to the internal personnel rules and practices of an agency. BPA has applied limited Exemption 2 redactions to protect internal call-in numbers and pass codes for recurring agency meetings. BPA has considered and declined a discretionary release of that information because disclosure would harm the interests protected and encouraged by Exemption 2.

**Exemption 6**

Exemption 6 protects information in “personnel and medical files and similar files” when the disclosure of such information “would constitute a clearly unwarranted invasion of personal privacy” (5 U.S.C. § 552(b)(6)), and if there is no public interest that outweighs the privacy interest. BPA relies on Exemption 6 in this instance to withhold employees’ private mobile phone numbers and personal employee information unrelated to business. BPA can find no public interest in the release of this information as it does not shed light on the mission or working of BPA, as an agency.

**Certification**

Pursuant to 10 C.F.R. § 1004.7(b)(2), I am the individual responsible for the records releases and exemption determinations described above and in the March 2, 2020, first partial release.

**Next Partial Release Target Date**

BPA continues to review and process the remaining responsive records collected in response to your request. The remaining records contain third-party information. The agency is required by 5 U.S.C. § 552(b)(4) (Exemption 4) to consult with the third-party information submitters and provide them with an opportunity to formally object to the public release of their information. BPA’s Office of General Counsel (OGC) will be tasked with making a determination on any objections received from third parties. To accommodate that OGC Exemption 4 process, the agency estimates a final records release date of August 4, 2020.

Your patience is appreciated as the agency works towards processing your FOIA request to completion. I appreciate the opportunity to assist you. If you have any questions about the content of this communication, please contact FOIA Public Liaison Jason E. Taylor at 503-230-3536 or at [jetaylor@bpa.gov](mailto:jetaylor@bpa.gov).

Sincerely,



Candice D. Palen, Freedom of Information/Privacy Act Officer

Responsive agency records accompany this communication.

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**From:** John Harrison <jharrison@nwcouncil.org>  
**Sent:** Wednesday, January 02, 2019 1:24 PM  
**To:** Peter Cogswell - BPA (ptcogswell@bpa.gov)  
**Subject:** Annual report

Sure, Peter. No problem. Send over your fixes. Mark and I talked about the report this morning, and he would like our Eric Schrepel, wizard of publications, to take the Word version and create a publication with it – the final version we'd publish. We'll show that one to the Council at the January meeting. Eric's not here today, we have some time, and I'd be happy to incorporate your changes.

Sorry you didn't have a Word version. Sounds like you got around that, but if you would still like a Word version let me know and I will send it.

John

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John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

**From:** Egerdahl,Ryan J (BPA) - PGPR-5  
**Sent:** Mon Mar 04 14:51:42 2019  
**To:** John Harrison (jharrison@nwcouncil.org)  
**Cc:** Cogswell,Peter (BPA) - DI-7; Petty,Robert J (BPA) - PGP-5; Chennell,Mildrid A (BPA) - PGPR-5  
**Subject:** Council Report on 2018 BPA F&W Costs  
**Importance:** Normal  
**Attachments:** Council Report.docx

Hi John. I made edits in the 2017 F&W Program Cost Report so you can see where I suggest to include the new language describing the variability around the annual foregone revenues and power purchases values in the 2018 Cost Report. You can find this proposed addition on page 8 of the attachment.

I also made a couple of edits on some of the preceding pages to help update/clarify other sections. See what you think and let us know if you have any questions.

Thanks again for letting us add to this report.

Ryan

**Ryan Egerdahl**  
Manager, Long Term Power Planning  
**Bonneville Power Administration**  
[rjegetdahl@bpa.gov](mailto:rjegetdahl@bpa.gov)  
| P 503.230.4732 | C (b)(6)

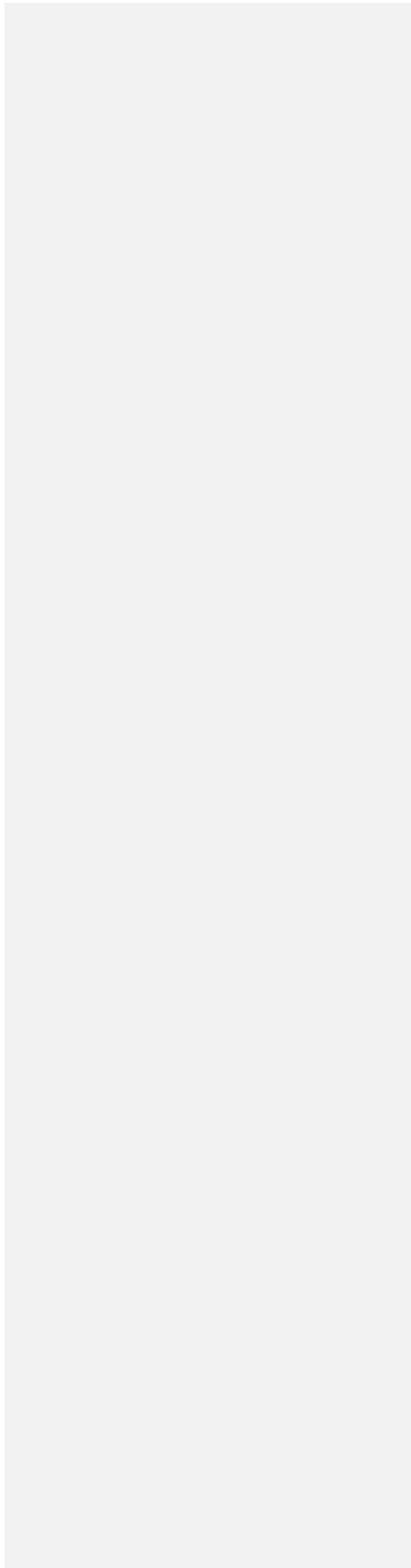


# 2017 Columbia River Basin Fish and Wildlife Program Costs Report

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17TH ANNUAL REPORT TO THE

NORTHWEST GOVERNORS



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# Overview

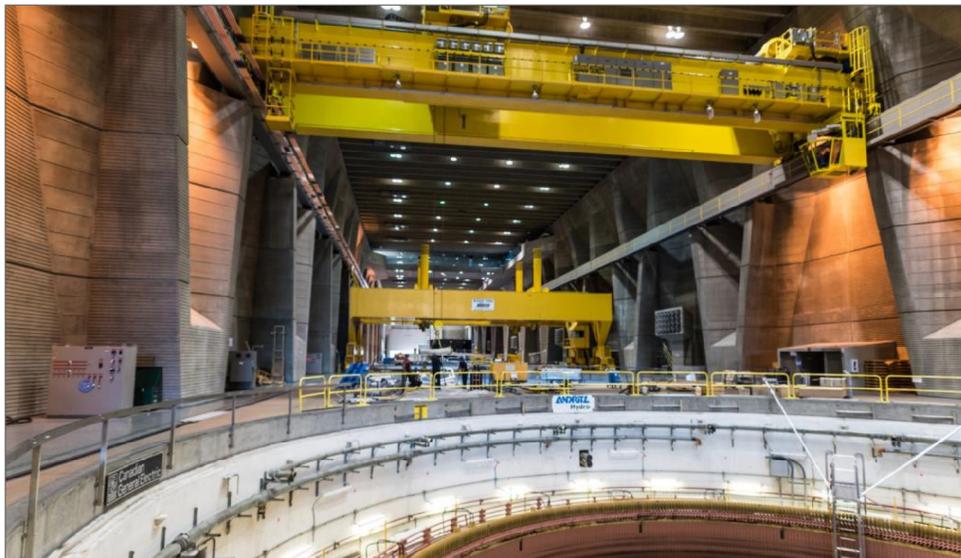
Since 2001, in response to a request from the governors of Idaho, Montana, Oregon, and Washington, the four states that comprise the Northwest Power and Conservation Council, we have reported annually on all costs related to fish and wildlife incurred by the Bonneville Power Administration, (BPA) as reported by Bonneville. This includes the cost of implementing the Council's Columbia River Basin Fish and Wildlife Program.

In this 17th annual report, the Council provides an update of Bonneville's reported fish and wildlife costs in Fiscal Year 2017 (October 1, 2016 – September 30, 2017). The information in this report was provided by Bonneville in response to requests from the Council staff and was not independently verified by the Council or its staff. The Council prepares this report solely for informational purposes, not as a requirement of the Northwest Power Act, and has neither the expertise nor the resources to analyze the accuracy of Bonneville's reported costs.

## Summary of 2017 costs

In Fiscal Year 2017, Bonneville reported total fish and wildlife costs of approximately \$450.4 million, as follows:

- \$254.7 million in direct (expense) costs for the direct-funded program, which pays for projects such as habitat improvements, research, and some fish hatchery costs.
- \$85.2 million in reimbursements to the federal Treasury for expenditures of appropriated funds by the Corps of Engineers, Bureau of Reclamation, and U.S. Fish and Wildlife Service for investments in fish passage and fish production, including direct funding of operations and maintenance expenses of federal fish hatcheries; this category also includes one-half of the Council's \$10.8 million in costs in Fiscal Year 2017 (the other half is assigned to Bonneville's Power Business Line budget).
- \$121.4 million for debt service (interest, amortization, and depreciation) of capital investments for facilities such as hatcheries, fish-passage facilities at dams, and some land purchases for fish and wildlife habitat.
- \$9.6 million in forgone hydropower sales revenue that results from dam operations that benefit fish but reduce hydropower generation. Bonneville's Fish and Wildlife Division considers forgone revenue as the result of spill at dams to benefit fish passage a cost attributable to fish and wildlife mitigation.
- Negative \$20.5 million in power purchases. Bonneville buys power in the wholesale market during periods when dam operations to protect migrating fish reduce hydropower generation below firm loads, such as by spilling water over dams in the spring or storing it behind dams in winter months in anticipation of flow augmentation. The negative number for 2017 is an anomaly. Power purchases and forgone revenue have a wide variance from year to year due to differences in streamflows, power prices and operations. The 2017 Fiscal Year exhibited an unusual and unintuitive result for both replacement power purchases (which are a part of the 4.h.10.C calculation) and forgone revenues. According to Bonneville, one of the reasons these "cost of fish operations" were lower in 2017 can be attributed to the modeled reservoir operations in the previous year as well as an unusual runoff. Bonneville's calculations show that operations for fish pushed some generation into months with higher power prices, and the value of that generation more than offset the fact that Bonneville lost approximately 210 average megawatts of generation due to operations for fish in 2017.



The \$450.4 million total does not include the amount Bonneville borrowed from the U.S. Treasury in 2017 totaling \$65.6 million — \$5.4 million for program-related (capital) projects, \$1.4 million for software development costs, and the \$58.9 million appropriated by Congress for associated federal projects as part of the Columbia River Fish Mitigation Program. These investments are all repaid by Bonneville. Including them in the same total as fixed costs would double-count some of the capital investment.

The total also does not reflect a credit of \$53.7 million from the federal Treasury related to fish and wildlife costs in 2017 that Bonneville is required to take under Section 4(h)(10)(C) of the Northwest Power Act. The annual credit comprises the obligations of other federal agencies for dam purposes other than hydropower, and which Bonneville pays in full. The credit is applied to Bonneville's federal Treasury debt. Subtracting the credit reduces the total fish and wildlife costs to \$396.7 million in fiscal year 2017 (the credit is explained in more detail in the "Power System Costs" section of this report).

The total of all fish and wildlife costs reported by Bonneville's Fish and Wildlife Division for Fiscal

Year 2017 (\$450.4 million) comprises 18.2 percent of Bonneville's entire Power Business Line costs of \$2.465 billion. This amount includes forgone revenue and power purchases that result from lost hydropower sales as the result of court-ordered spill to assist juvenile fish migration past Columbia and Snake river dams. Because forgone revenue is an estimate of lost revenue and not an actual cost, Bonneville's Power Business Line does not include forgone revenue in its calculation of annual fish and wildlife costs (\$441 million), which is separate from the amount calculated by the Fish and Wildlife Division. Without forgone revenue, fish and wildlife costs comprise 17.8 percent of Bonneville's \$2.465 billion in total power-related costs.

Fish and wildlife costs account for a significant portion of the rate Bonneville charges its wholesale power customers. Approximately one third of Bonneville's 2017-2019 wholesale rate of \$35.57 per megawatt hour is estimated to be associated with its fish and wildlife program. This includes the estimate of forgone revenue.

BPA's forecast annual total power cost for the BP-16 rate period was \$2.348 billion and includes \$535 million in direct fish and wildlife costs. In addition to

BPA's forecast direct fish and wildlife costs, Bonneville estimated roughly \$200 million in forgone revenue [and power purchases](#) for a total forecast annual fish and wildlife cost of \$735 million, which is 31 percent of \$2.348 billion, or approximately one-third, which is the approximate impact to rates. These estimates assume [2014 Biological Opinion-2018 court-ordered injunction](#) operations and include the portion of costs allocated to non-power uses of the dams (Northwest Power Act Section 4(h)(1)(C)).

The Council understands the impact fish and wildlife costs have on rates and is working on measures to keep its program as efficient and effective as possible. Accordingly, the Council formed a cost-savings workgroup with Bonneville that identifies and reviews on a regular basis fish and wildlife projects for potential close-out or significant cost reductions (greater than \$50,000). The cost-savings work began in 2015, when \$182,746 in savings were identified and reprogrammed in Fiscal Year 2016 to other projects. In 2016, savings totaling \$560,000 were identified, and in Fiscal Year

2017, Bonneville and Council staff identified additional projects and the savings grew to roughly \$1.1 million. Cost savings allow new projects to be funded by shifting money among projects without increasing the total fish and wildlife budget. Most of the projects identified for savings are in the process of a "smart closeout," meaning that their funding will decline by approximately one-third each year for three years. Due to this process, the cost-savings increase each year until the projects completely close out.



## Power system costs

The Council's program and the biological opinions on Federal Columbia River Power System operations issued by NOAA Fisheries and the U.S. Fish and Wildlife Service specify hydropower dam operations for fish that also affect power generation. These measures include river and dam operations to protect spawning and rearing areas for both anadromous and resident fish and to improve passage conditions at dams for juvenile salmon and steelhead. Sometimes these operations require Bonneville to purchase power to meet loads while at other times Bonneville simply forgoes a revenue-making opportunity (forgone revenue).

Regardless of how Bonneville handles the reduced generation, fish operations to comply with these federal requirements affect Bonneville rates for utility customers. Bonneville customers pay the cost of power Bonneville purchases to meet regional loads. Also, compliance with these legal requirements, and others, limits the amount of revenue that would be possible from an unrestricted operation of the hydropower system. For reporting purposes, on an annual basis Bonneville calculates the value of both power purchases and forgone revenues attributable to fish operations and reports them as part of its costs to mitigate the impacts to fish and wildlife from operation of the federal hydropower system. While the Council recognizes there is debate over the reporting of these power-system costs, a principle of the Act requires the



Council to consider the “monetary costs and electric power losses resulting from implementation of the program” (Section 4(h)(8)(D)) which are allocated by the Administrator. Accordingly, this report includes forgone revenues and power purchases as reported by Bonneville, as the Council does not have the capability to audit Bonneville’s financial records.

The amounts of forgone revenue and power purchases can vary widely from year to year. due to differences in streamflows, power prices, and fish operations because the demand for power and the amount of water in the Columbia River system also vary. As noted above on page X, BPA expects the annual total foregone revenue and power purchases amount to be roughly \$200 million, but the variation around that expected value is quite large. For example, the results from the 80 individual water years modeled have an annual total range of approximately \$21 million to \$314 million. Also, extreme events can result in values outside the modeled range as happened in 2001 when the total foregone revenue and power purchases exceeded \$1.5 billion.

During some months of the year (most notably spring), the hydropower system generates sufficient power, even with fish operations, to both meet firm load and generate surplus power. During these months, the

fish operations often reduce electrical generation at the dams, thereby lowering so-called “secondary” revenues from sales of surplus power (water that is spilled over dams to aid fish passage cannot be used to generate power). Bonneville calls these revenue reductions “forgone revenues.” Among the many factors Bonneville considers in setting rates, one is an assumption that surplus power sales will be lowered because of how

the river and dams are operated for fish. During other months of the year, and under low-water conditions, the hydropower system does not generate enough power to meet firm loads and Bonneville must supplement through purchasing electricity from other suppliers. When fish operations necessitate these additional power purchases to meet firm loads, Bonneville identifies this increment as “power purchases for fish enhancement” in its fish and wildlife costs.

To calculate the annual power-generation share of forgone revenue and power purchases attributable to fish operations at the dams, Bonneville conducts two studies of hydropower generation for the relevant fiscal year. One study includes dam-operating requirements for fish protection, and the other has no fish-protection requirements. The differences for each month are calculated and the corresponding monthly actual Mid-Columbia wholesale electricity market prices (as reported by the Intercontinental Exchange, or ICE) are applied. Combined with assumptions of the monthly power-demand load, this provides monthly estimates of the forgone revenue and power purchases resulting from the fish-enhancement operations.

In Fiscal Year 2017, the overall annual average difference between the two studies (fish protection and no-fish protection) was 210 average-megawatts. Of this, about 119 average-megawatts contributed to the estimated \$9.6 million in forgone revenue. About 91 average megawatts contributed to the estimated negative \$20.5 million in replacement power purchases. The negative amount, an anomaly, is explained on page 4 of this report.

As noted above, Bonneville receives a credit under Section 4(h)(10)(C) of the Northwest Power Act as reimbursement for the non-power share of fish and

wildlife costs that Bonneville pays annually, including a portion of the power purchases. Other costs are not factored into that 4(h)(10)(C) credit, such as forgone revenue, interest on Treasury borrowing, amortization and depreciation of capital projects, reimbursable expenditures, and the Council budget. Non-power purposes such as irrigation, navigation, and flood control comprise a weighted, system-wide average of 22.3 percent of the authorized purposes of the federal dams. The annual credit to Bonneville is based on this percentage, and is applied against Bonneville's Treasury payment at the end of the year.

The 2017 credit was \$53.7 million — 22.3 percent of \$241 million, the total of fish and wildlife capital costs (\$6.8 million), direct program costs (\$254.7 million), and power purchases (negative \$20.5 million) for fish enhancement. In effect, the credit reduces the fish and wildlife costs paid by electricity ratepayers. As noted earlier in this report, the grand total of all fish and wildlife costs incurred by Bonneville in 2017 was approximately \$450.4 million (including forgone revenue and power purchases). Applying the 4(h)(10)(C) credit reduces Bonneville's total fish and wildlife-related costs, meaning that ratepayers were responsible for \$396.7 million and the federal government credited Bonneville \$53.7 million.

## Background

The Pacific Northwest Electric Power Planning and Conservation Act of 1980 (16 USC 839; Public Law 96-501), the federal law that authorized the states of Idaho, Montana, Oregon, and Washington to form the Northwest Power and Conservation Council, directs the Council to prepare a program to protect, mitigate and enhance fish and wildlife, and related spawning grounds and habitat, of the Columbia River Basin that have been affected by hydroelectric development. The Bonneville Power Administration satisfies its Power Act responsibilities for fish and wildlife mitigation through funding of the Council's Columbia River Basin Fish

and Wildlife Program. Bonneville is a federal power marketing authority within the U.S. Department of Energy that sells wholesale electricity from 31 federal hydropower dams and one non-federal nuclear power plant in the Pacific Northwest (the Federal Columbia River Power System — FCRPS).

In addition to this annual report on Bonneville's fish and wildlife costs, the Council also tracks progress of fish and wildlife efforts in the Columbia River Basin using three high-level indicators (HLI). Posed as questions, they are:

1. Are Columbia River Basin fish species abundant, diverse, productive, spatially distributed, and sustainable?
2. Are operations of the mainstem Columbia and Snake River hydropower dams meeting the fish-passage survival objectives of the program?
3. What is being accomplished by projects that implement the Council's fish and wildlife program?

Over time, the Council expects to augment and refine these indicators to provide a more comprehensive picture of fish and wildlife in the Columbia River Basin. Columbia River basinwide HLI information is reported in graphics that are posted on the Council's High-Level Indicator report webpage ([www.nwcouncil.org/ext/hli](http://www.nwcouncil.org/ext/hli)). Subbasin-specific information is posted on the Council's subbasin dashboard webpage ([www.nwcouncil.org/ext/dashboard](http://www.nwcouncil.org/ext/dashboard)).

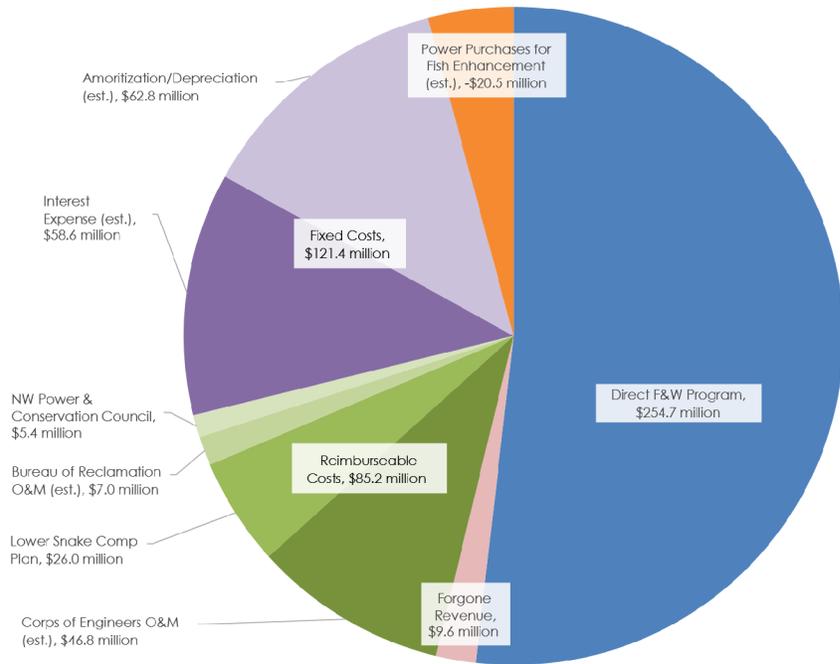
The indicators, questions, and graphics are developed and refined in collaboration with fish and wildlife agencies and tribes. Information used to populate the indicator graphics is provided by 1) sponsors of projects funded through the fish and wildlife program, and 2) fish and wildlife agencies and tribes that report on projects not funded through the program. The current reporting status of the three high-level indicators can be viewed in the Table of Indicators on the Council's website ([www.nwcouncil.org/fw/hli/table](http://www.nwcouncil.org/fw/hli/table)).

# Figures

Data tables for all figures at [www.nwcouncil.org/reports/financial-reports/2018-4](http://www.nwcouncil.org/reports/financial-reports/2018-4)

Figure 1: Costs by Major Area, FY2017

Total of \$450.4 million does not reflect \$65.6 million in obligations to capital projects for fish and wildlife projects, software development, and structures at dams, or \$53.7 million federal credits Bonneville receives from the U.S. Treasury



This information has been made publicly available by BPA on 3/20/2018. The figures shown are consistent with audited actuals that contain Agency approved financial information, except for forgone revenues and power purchases which are estimates and do not contain Agency approved financial information.

1/ Capital Investments include both BPA's direct Fish and Wildlife Program capital investments, funded by BPA's Treasury borrowing, and "Associated Projects", which include capital investments at Corps of Engineers' and Bureau of Reclamation projects, funded by appropriations and repaid by BPA. The negative amount in FY 1997 reflects a decision to reverse "plant-in-service" investment that was never actually placed into service. The annual expenses associated with these investments are included in "Program-Related Fixed Expenses".

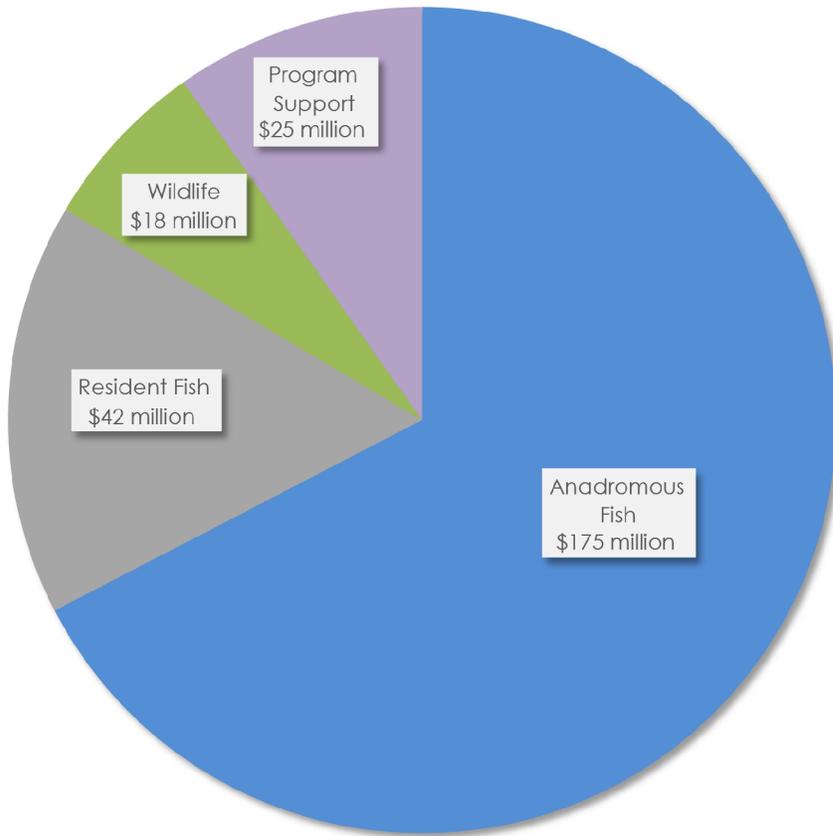
2/ Includes High Priority and Action Plan Expenses and other supplemental programs.

3/ "Reimbursable/Direct-Funded Projects" includes the portion of costs BPA pays to or on behalf of other entities that is determined to be for fish and wildlife purposes.

4/ "Fixed Expenses" include depreciation, amortization and interest on investments on the Corps of Engineers' projects, and amortization and interest on the investments associated with BPA's direct Fish and Wildlife Program.

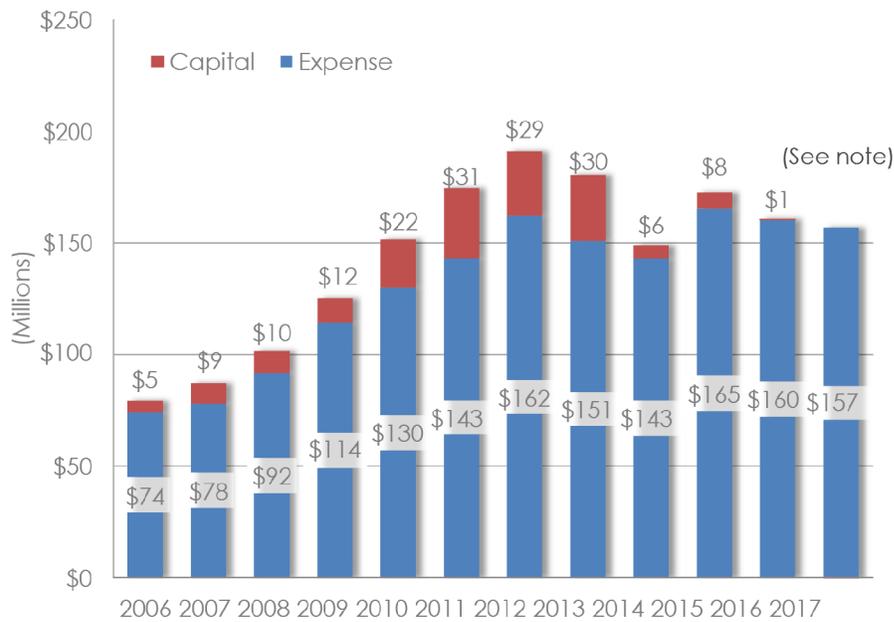
### Figure 2: Costs by Types of Species, FY2017

Total: \$260.0 million includes \$5.4 million in obligations to capital projects



1) Starting in 2008, Spending can be tracked back to a work element where the contractor explicitly identified the "Primary Focal Species" benefiting from the work.  
2) Program Support includes includes contracts that contain only administrative work elements or program level spending that could not be mapped to a specific project, as well as BPA internal overhead such as personnel costs.  
3) FY2017 revised as of February 21, 2018.  
Source: Bonneville Power Administration

Figure 3: Costs of FCRPS BiOp Projects, 2006-2017



1) Estimated spending is based at the project level. Therefore, if a project partially supports the FCRPS BiOp, all expenditures for the project are included.

2) Passage projects were moved from Capital to Expense funding starting with FY16 contracts.

3) FY2017 reviewed as of February 21, 2018; no changes.

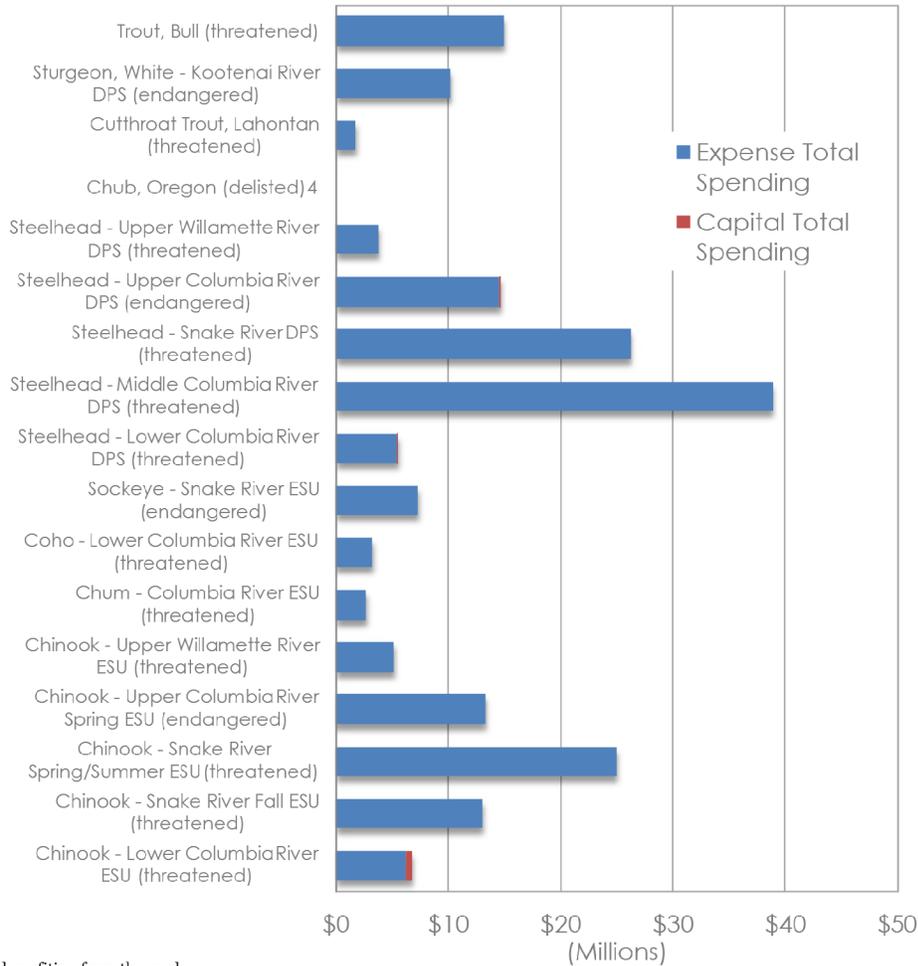
4) FY2017 Capital Spending is -\$396,792. Negative value is a result of over-accruing costs in the previous year.

Source: Bonneville Power Administration



Figure 4: Costs Associated with ESA-Listed Fish, FY2017

Total: \$191.3 million (Expense: \$191.7 million, Capital: \$-.4 million)



benefiting from the work.

2) Contract Administration spending can be tracked back to a work element that did not require the contractor to identify the "Primary Focal Species" benefiting from the work.

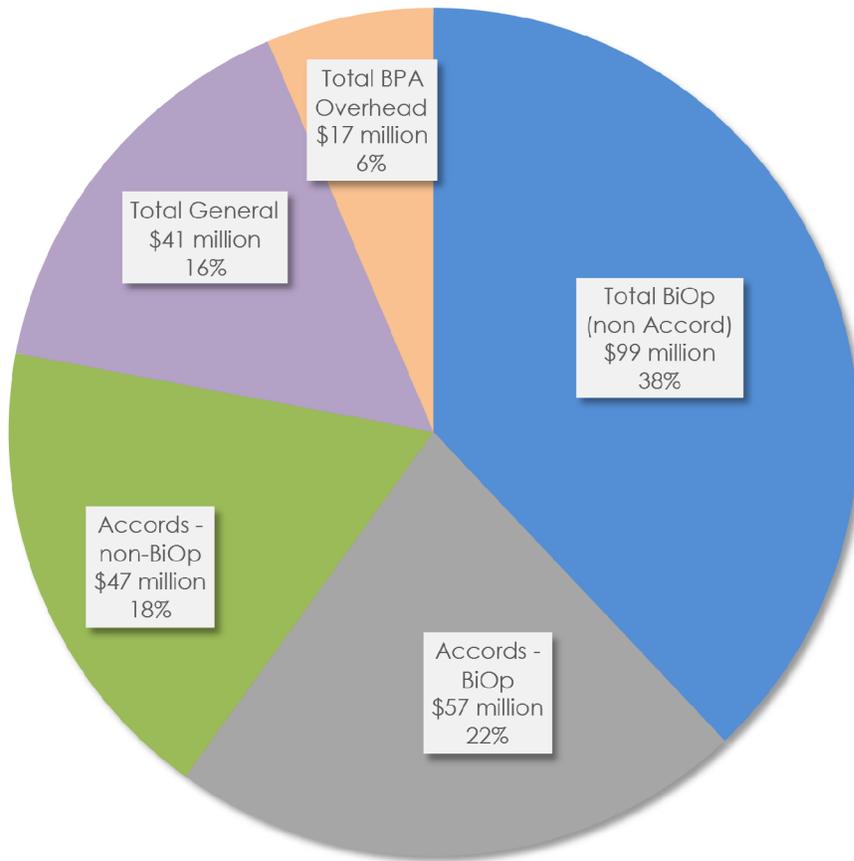
3) Negative values for Capital Spending are a result of over-accruing costs in the previous year.

4) Oregon Chub, once an endangered species, have rebounded and were delisted in 2015.

Source: Bonneville Power Administration

Figure 5: Costs by Fund, FY2017

Total: \$260.0 million includes \$5.4 million in obligations to capital projects



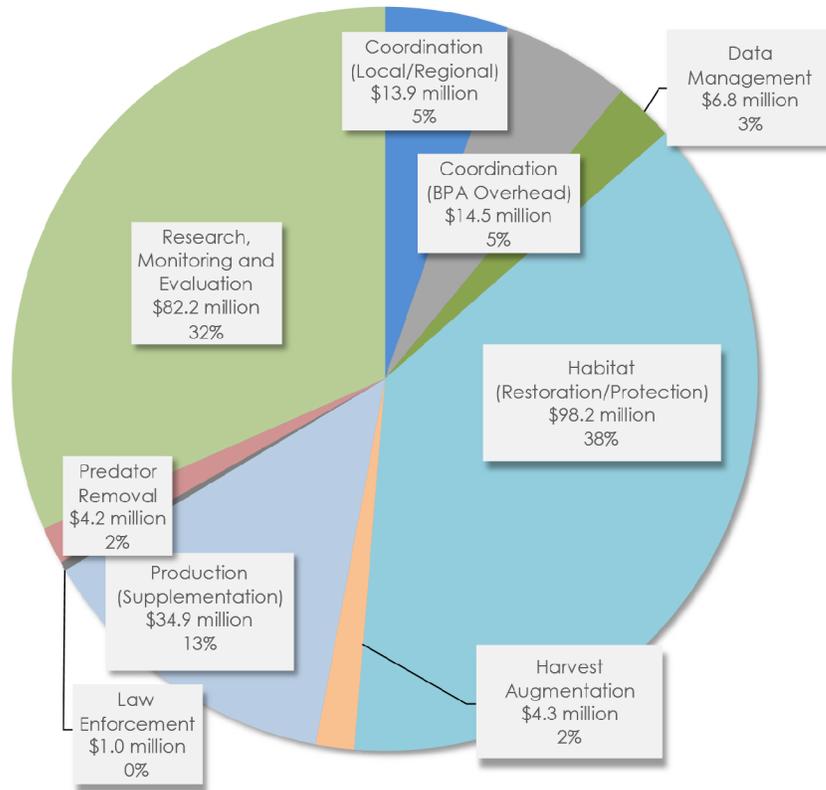
- 1) BiOp tracking at fund level began in 2009, Accords began in 2008.
- 2) Spending is estimated based on the percent of funding towards a project. For example, if a project budget is 70 percent BiOp and 30 percent General, the project expenditures will be prorated 70 percent towards BiOp and 30 percent General.
- 3) Revised on February 21, 2018.
- 4) In this figure and the corresponding table, overhead is reported two ways: BPA internal support (\$14,542,931) and technical support (\$2,023,130) for a total of \$16,566,061, rounded up to \$17 million.

Source: Bonneville Power Administration



Figure 6A: Costs by Category, FY2017

Total: \$260.0 million includes \$5.4 million in obligations to capital projects



1) BPA's database identifies projects by their "Purpose" (general goal) and "Emphasis" (primary type of work, e.g., habitat restoration). BPA does not track its project management overhead against individual projects or contracts, so there is no easy or accurate way to allocate BPA overhead to specific purposes or emphases. Thus, in the above report, BPA includes its staffing to manage the 600-plus contracts in its fish and wildlife program in the category identified as Coordination (BPA Overhead), and its direct technical services contracts for Data Management and Research, Monitoring, and Evaluation in those respective categories. This differs from the BPA overhead amount reported in Figure and Table 5, which includes internal support plus technical support. Here, Figure and Table 6 only reports internal support as BPA overhead. Technical support is included in the amounts reported in the individual categories.

2) Estimated spending is based at the project level. Therefore if a project is assigned an emphasis of Habitat, but also does RME, all expenditures for the project are included under Habitat.

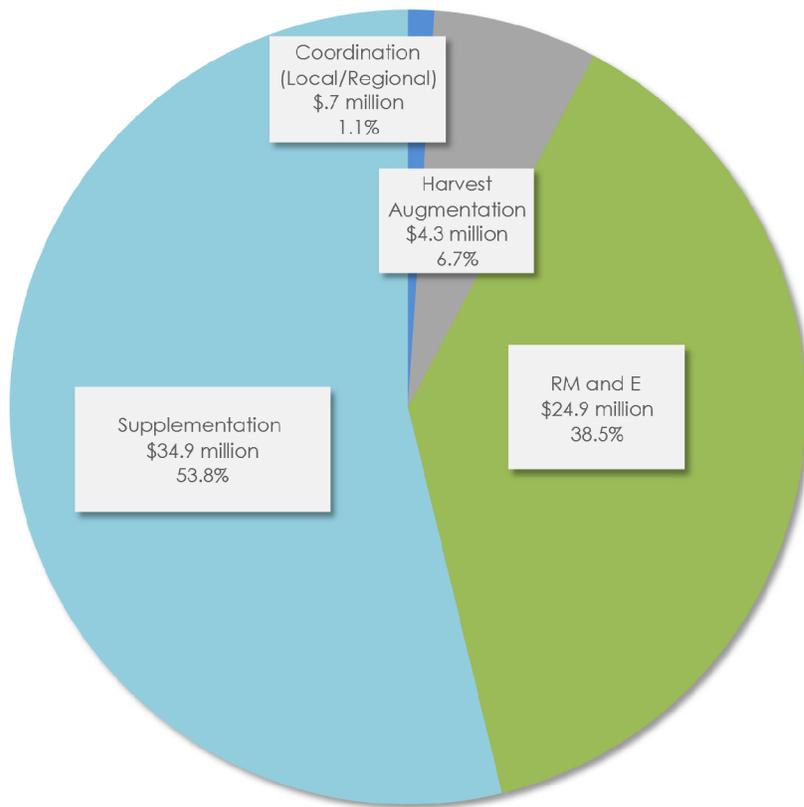
3) Starting in Fiscal Year 2015 (and revised for FY2014), Costs by Category will now separate Coordination costs between Regional/Local Coordination and BPA Overhead.

4) FY2016 revised as of February 21, 2018.

Source: Bonneville Power Administration

### Figure 6B: Costs of Artificial Production by Category, FY2017

Total: \$64.8 million does not include obligations to capital projects



1) Estimated spending is based at the project level. Therefore if a project is assigned an emphasis of Habitat, but also does RME, all expenditures for the project are included under Habitat.

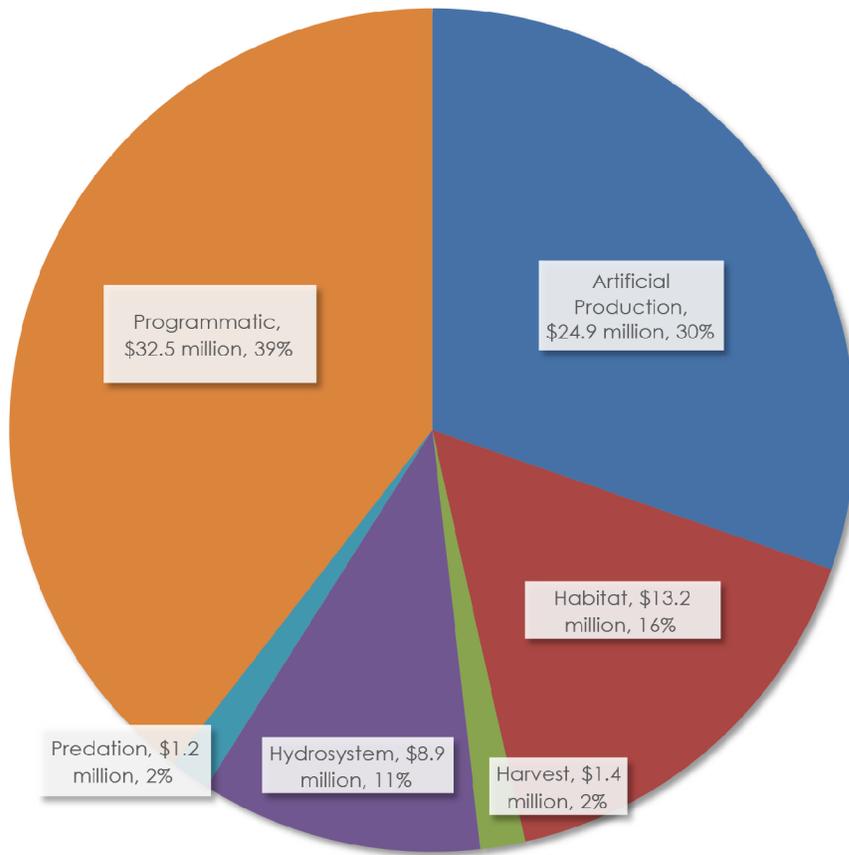
2) FY2016 reviewed on February 22, 2018, no changes.

Source: Bonneville Power Administration



Figure 7: Costs of Research, Monitoring and Evaluation (RM&E), FY2017

Total: \$82.2 million does not include obligations to capital projects



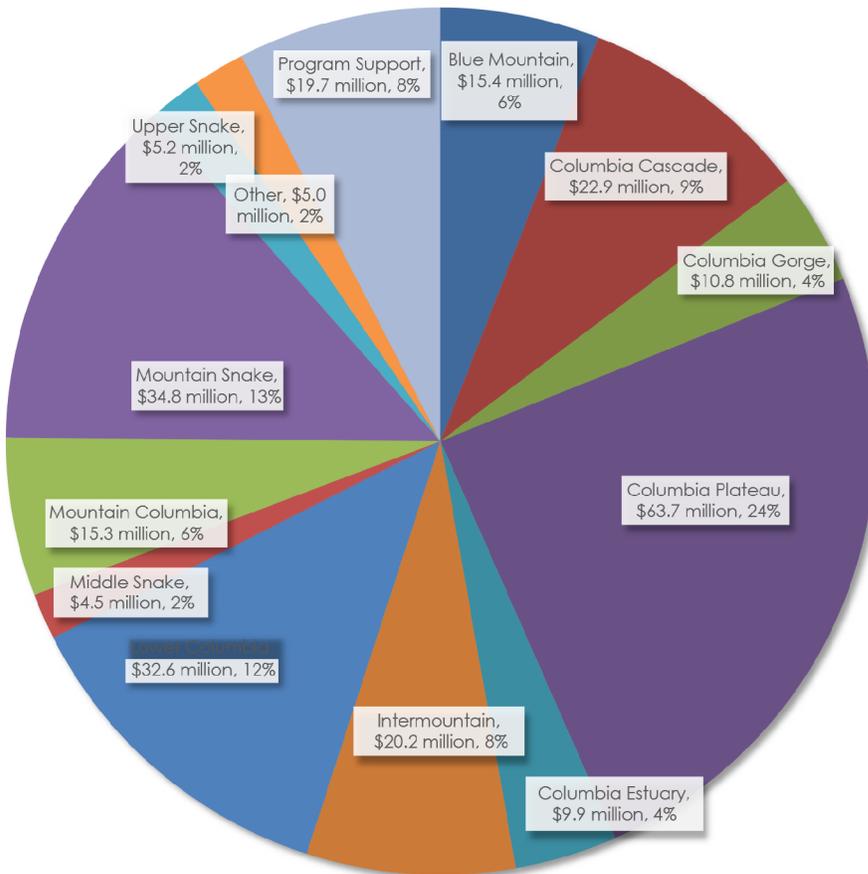
1) Estimated spending is based at the project level. Therefore if a project is labeled Artificial Production, but also supports Habitat, the expenditures are counted as Artificial Production.

2) The term "Programmatic" is used to describe projects whose purpose is broader than a specific project or region, but falls under the larger umbrella of the overall Fish and Wildlife Program. Examples include projects such as Coded Wire Tags, Climate Change Impacts, the Integrated Status and Effectiveness Monitoring Program, the Comparative Survival Study, and the Fish Passage Center.

Source: Bonneville Power Administration

Figure 8: Costs by Province, FY2017

Total: \$260.0 million includes \$5.4 million in obligations to capital projects



1) Starting in 2008, spending by province is tracked in Pisces based on where the contractor explicitly identified work location.  
 2) Other includes "Undetermined" locations such as Ocean, Canada; and provinces not recognized by NPCC.  
 3) Program Support/Admin includes spending that cannot be traced back to a contract that has at least one work element requiring location; contracts without any work elements at all; program level spending not mapped to a specific project; and BPA Overhead.  
 4) FY2016 revised as of February 22, 2018.  
 Source: Bonneville Power Administration

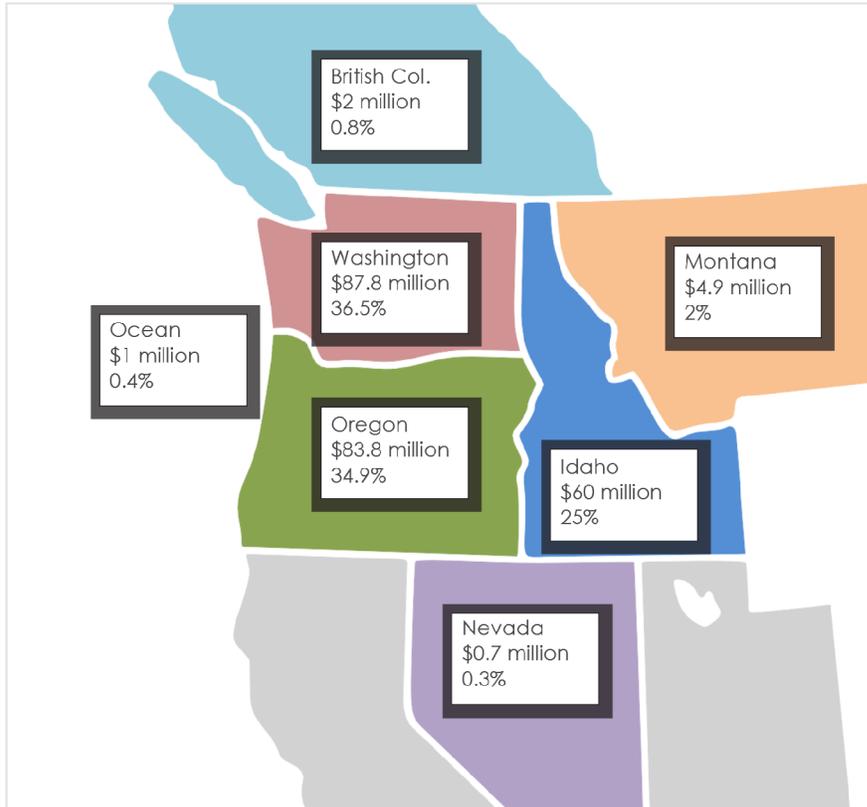


## Province Map



### Figure 9: Costs by Work Element Location, FY2017

Total: \$260.0 million includes \$5.4 million in obligations to capital projects



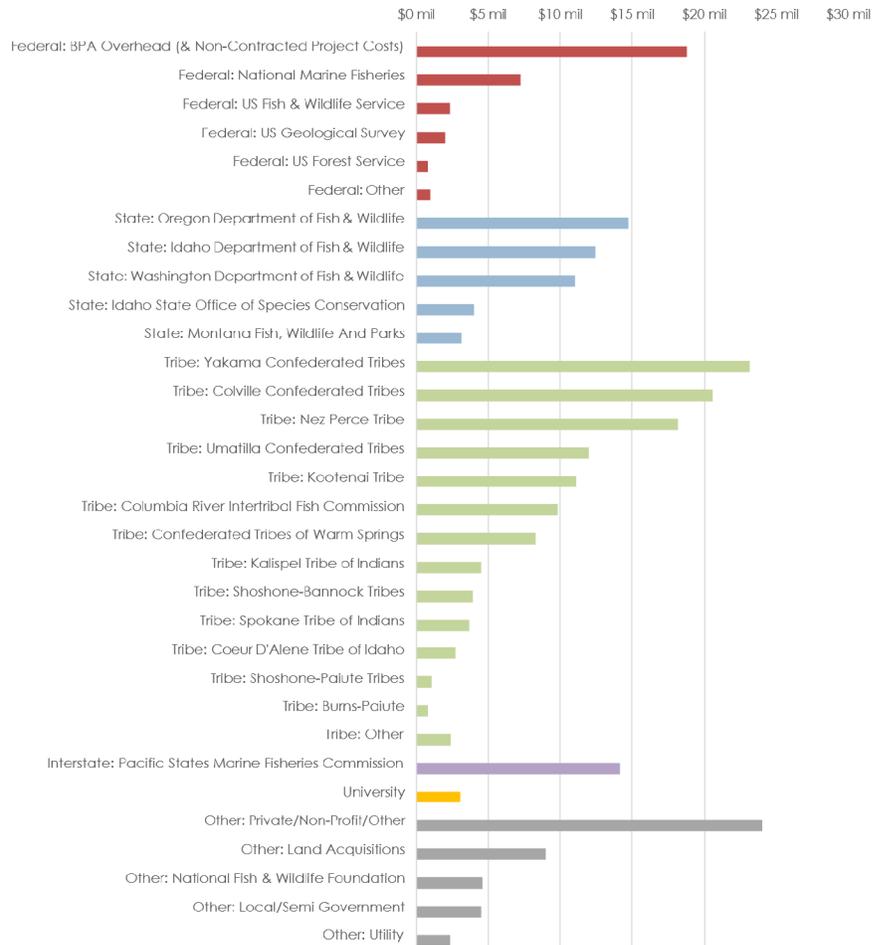
- 1) Starting in 2008, spending by state is tracked in Pisces based on where the contractor explicitly identified work location.
- 2) Program Support/Admin/Other (\$19.7 million) includes spending that cannot be traced back to a contract that has at least one work element requiring location; contracts without any work elements; program level spending not mapped to a specific project or NPCC province; and BPA Overhead.
- 3) FY2016 revised as of February 22, 2018.

Source: Bonneville Power Administration



Figure 10: Costs by Contractor Types, FY2017

Total: \$260.0 million includes \$5.4 million in obligations to capital projects

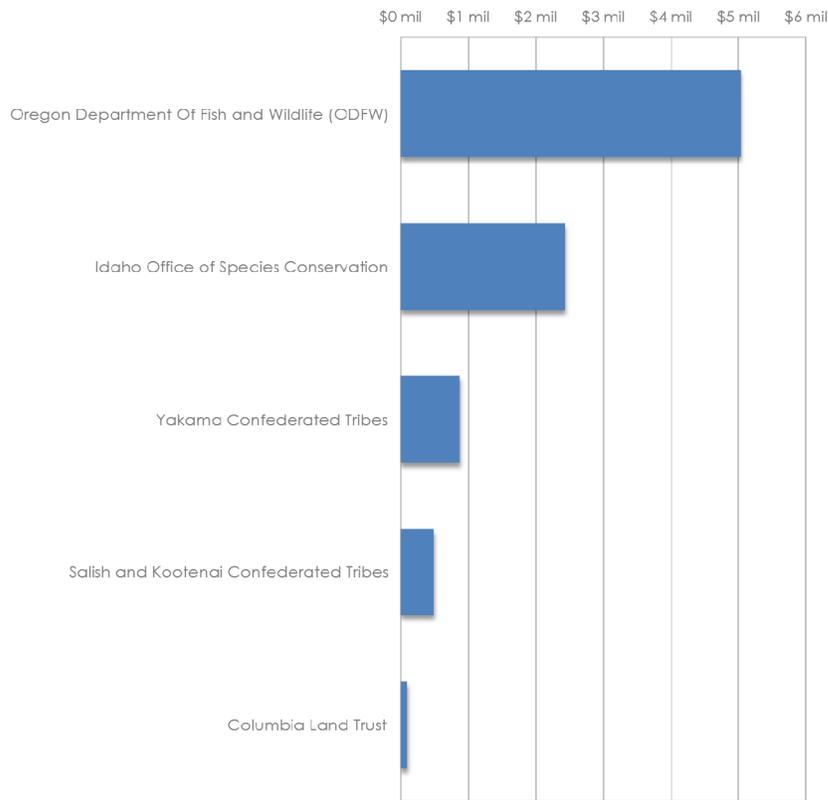


- 1) Values above include accruals.
- 2) Starting in FY13, land acquisition values may include stewardship costs for long-term operations and maintenance (O&M).
- 3) FY2015 reviewed as of March 10, 2017, no changes.
- 4) Local/Semi Government means city, county, soil and water conservation districts, and watershed council entities
- 5) "Federal: BPA Overhead (and Non-contractoed Project Costs)" refers to BPA overhead costs and also non-contracted project costs such as PIT tag costs, utilities, advertising, NEPA, and expenses involving ancillary land acquisition expenses

Source: Bonneville Power Administration

Figure 11: Costs of Land Purchases for Fish and Wildlife Habitat, FY2017

Total: \$9 million



1) Values above include bank fees, permits, etc.

2) Starting in FY2013, land acquisition values may include stewardship costs for long-term operations and maintenance (O&M).

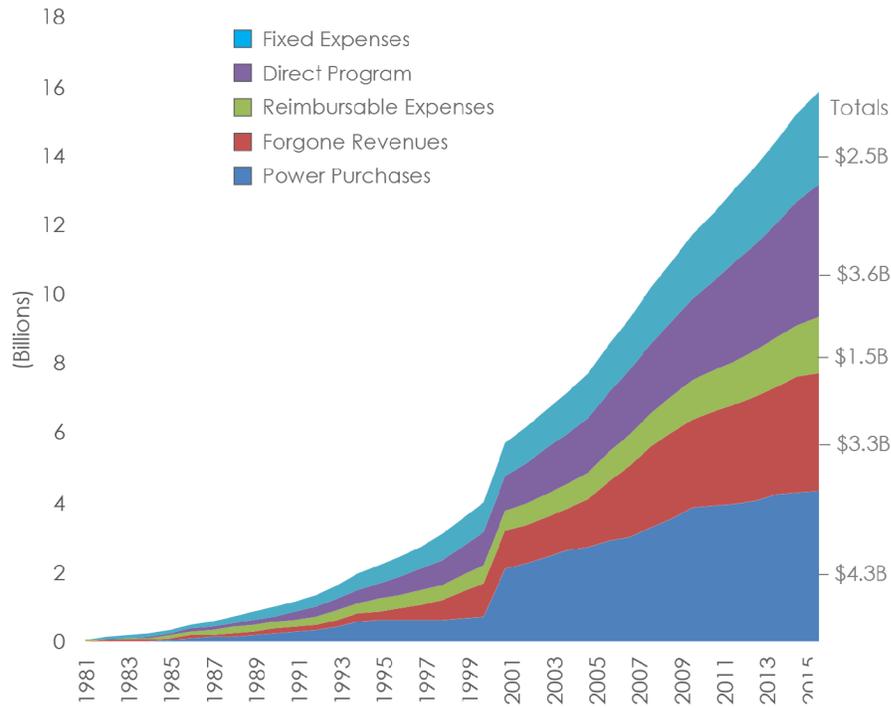
3) FY2016, no changes as of February 22, 2018.

Source: Bonneville Power Administration



Figure 12: Cumulative Costs 1981-2017, by Major Spending Area

Total: \$16.4 billion does not reflect \$2.78 billion in obligations to capital projects or \$2.19 billion in credits



Source: Bonneville Power Administration

# Endnotes

<sup>1</sup> Capital projects are financed over time with appropriated debt. In Bonneville's fish and wildlife budget, the amounts are called "obligations" as opposed to project expenditures through the direct-funded part of the program. Capital projects include construction of fish hatcheries, fish and wildlife habitat improvements, and land purchases over a certain amount for wildlife. Capital investments in Bonneville's budget also include those for "associated federal projects," which include Bonneville's share of the cost of the projects in the U.S. Army Corps of Engineers' Columbia River Fish Mitigation Program. These projects include, among others, fish-passage improvements at the federal dams, barge transportation of juvenile salmon and steelhead, research in the Columbia River estuary, and the effort to relocate Caspian tern and double-crested cormorant nesting areas from the estuary to other locations in the Northwest.

<sup>ii</sup> The 2017 costs bring the grand total of all fish and wildlife program costs incurred by Bonneville from 1978 when the costs began to approximately \$16.34 billion. The total does not include \$2.78 billion in annual obligations to capital investments (the actual annual costs are captured in the "fixed costs" category), or \$2.19 billion in credits applied to Bonneville's Treasury debt (discussed above).

Here, in descending order, is a breakdown of the major cost categories:

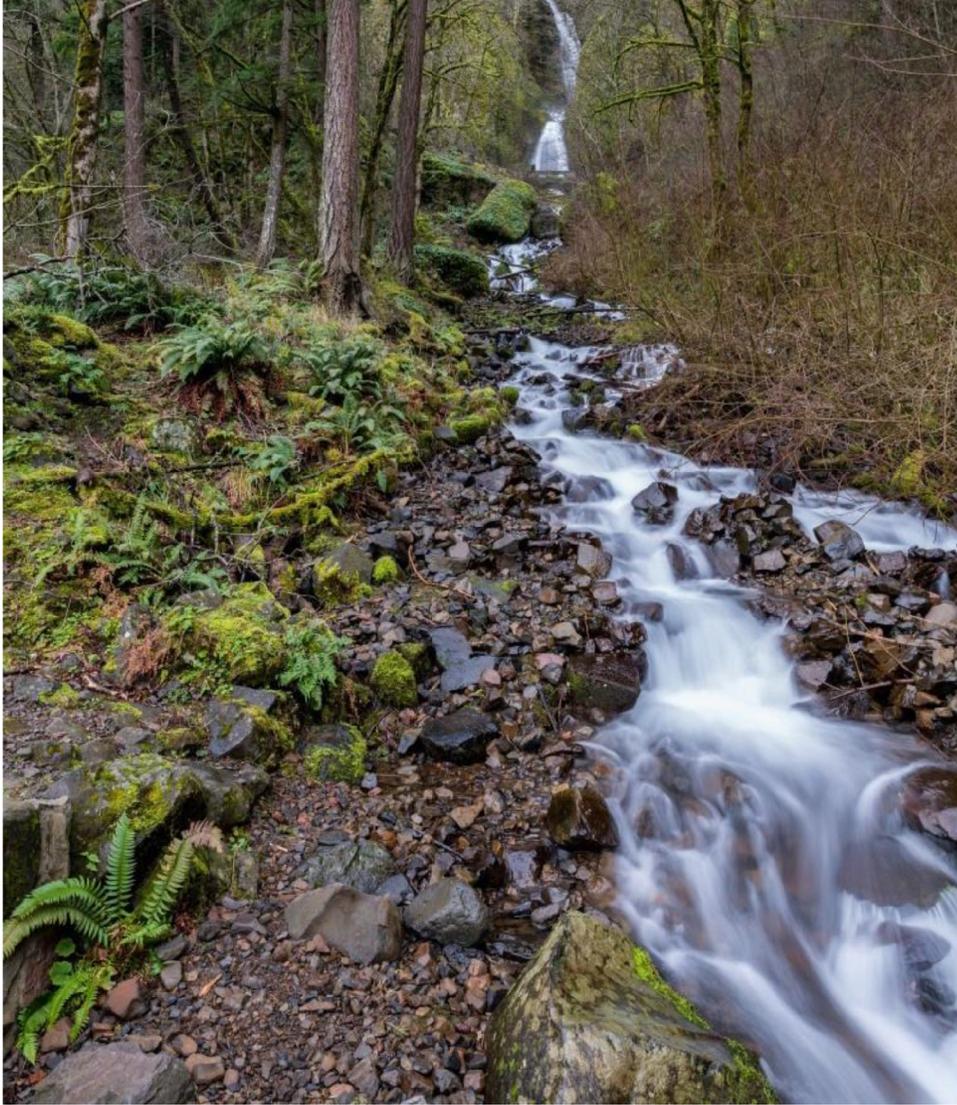
- \$4.08 billion for the Council's direct program. This amount does not include annual commitments to capital investments in the direct program.
- \$2.81 billion in fixed expenses for interest, amortization, and depreciation on the capital investments.
- \$1.69 billion to: 1) directly fund fish and wildlife projects undertaken by the U.S. Army Corps of Engineers or the Bureau of Reclamation, some of which predate the 1980 Northwest Power Act, and for which Bonneville pays the hydropower share consistent with the Power Act (these expenditures include, for example, operations and maintenance

costs of certain fish-production facilities, fish passage facilities at dams, and research activities); and 2) reimburse the U.S. Treasury for the hydropower share of major dam modifications by the Corps of Engineers, such as installing spillway weirs, bypass systems, fish-deflection screens in front of turbine entrances, and spillway gas control devices.

- \$3.42 billion in forgone hydropower sales revenue. Bonneville calculates the value of hydropower that could not be generated (revenue that is forgone) because of river operations to assist fish passage and improve fish survival, such as water spills at the dams when juvenile salmon and steelhead are migrating to the ocean.
- \$4.34 billion for power purchases to meet electricity-demand requirements in response to river and dam operations that benefit fish but reduce hydropower generation.

<sup>iii</sup> BPA Priority Firm Tier 1 rate 2018-19. See [www.bpa.gov/Finance/RateInformation/Pages/Current-Power-Rates.aspx](http://www.bpa.gov/Finance/RateInformation/Pages/Current-Power-Rates.aspx)

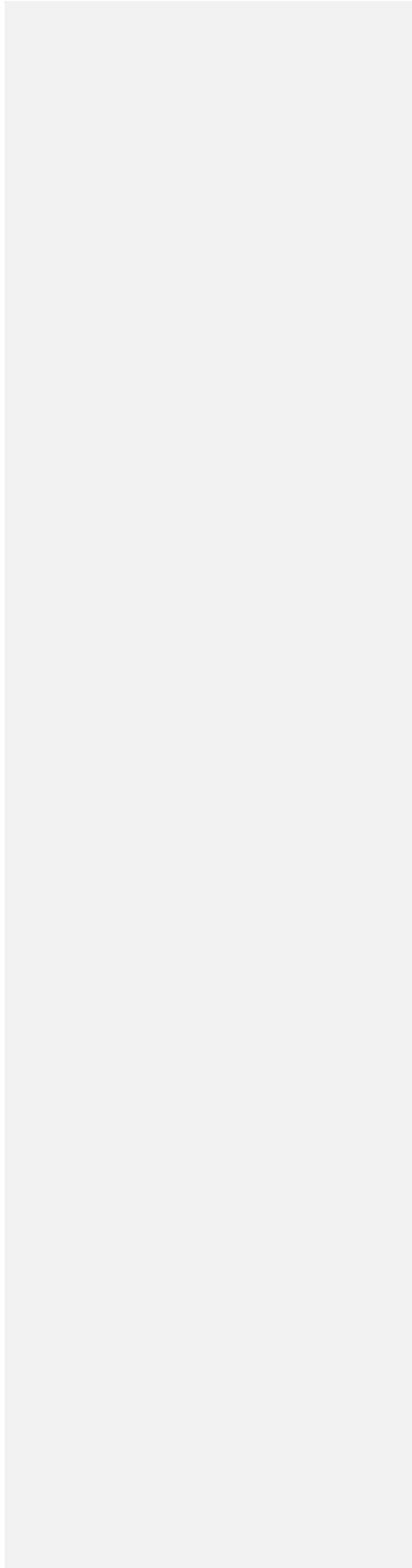
<sup>iv</sup> 839b(h)(8). The Council shall consider, in developing and adopting a program pursuant to this subsection, the following principles: ... 839b(h)(8)(D). Monetary costs and electric power losses resulting from the implementation of the program shall be allocated by the Administrator consistent with individual project impacts and system wide objectives of this subsection.



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STEVE CROW, EXECUTIVE DIRECTOR  
DOCUMENT [2018-4](#) | APRIL 2018

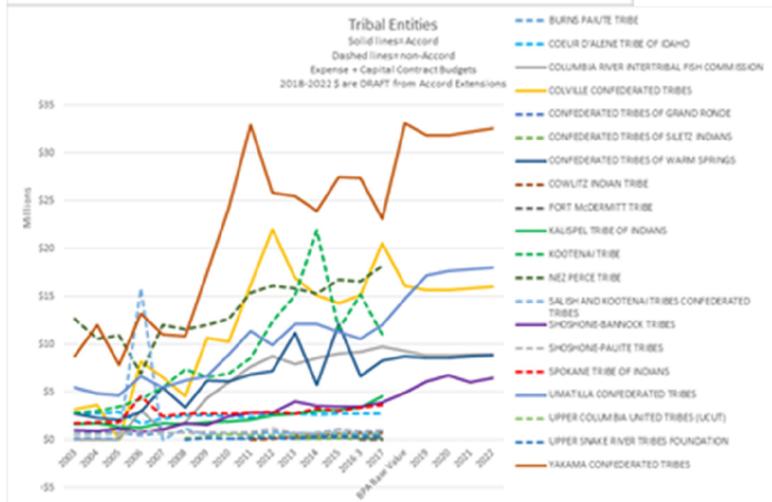
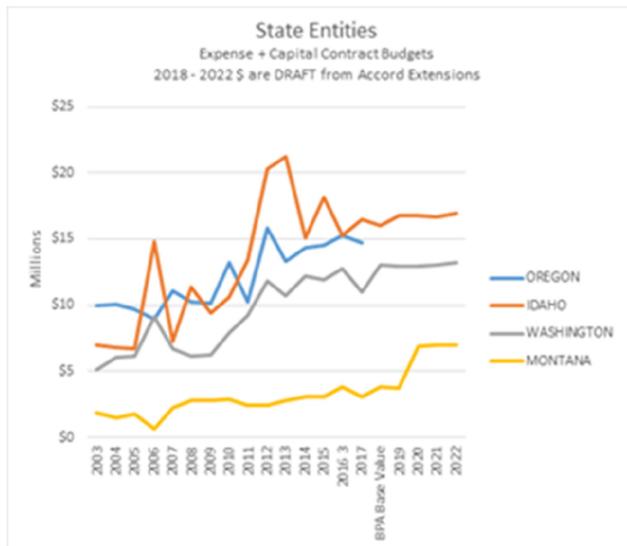


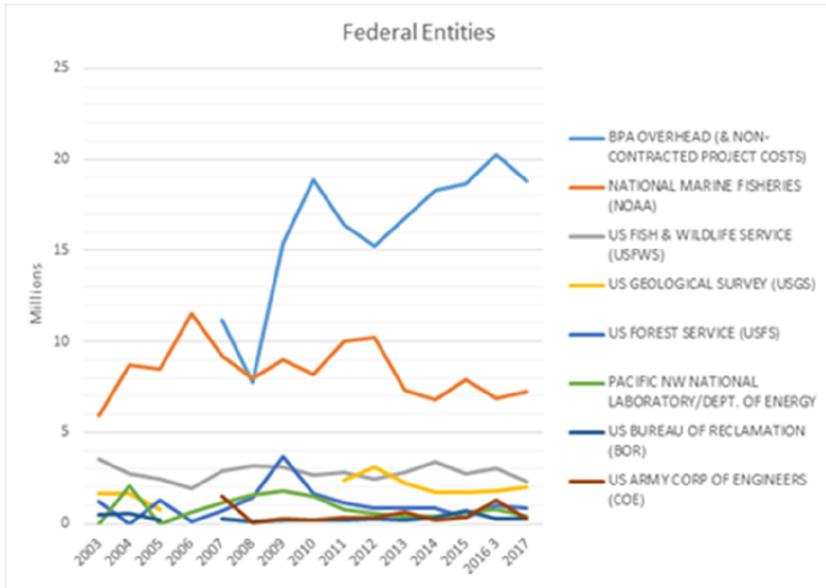
**From:** Tom Karier <tkarier@nwcouncil.org>  
**Sent:** Tuesday, October 02, 2018 11:46 AM  
**To:** Cogswell,Peter - DKR-7; Mercier,Bryan K (BPA) - EWB-4  
**Cc:** Guy Norman; Stacy Horton  
**Subject:** [EXTERNAL] Accord Budget Trends

Peter and Brian,

I was interested in how the new accord funding compared to recent budgets for states and tribes. To that end, I asked Stacy to compile historic spending based on information BPA provided for our annual cost report and the budgets in the new accords. Since we do not have 2018 actuals yet, for that year she used the baseline BPA reported for the accords. While the budgets look fairly level for most entities they seem more likely to be slightly increasing than decreasing. Does this look reasonably correct to you? Do you see any errors? If you have better data I would be glad to see that.

I've also included recent historical spending for federal agencies at the end.





**From:** Tom Karier  
**Sent:** Mon Apr 30 09:07:02 2018  
**To:** John Harrison  
**Cc:** Cogswell, Peter - DKR-7; Stacy Horton; Egerdahl, Ryan J (BPA) - PGPR-5  
**Subject:** [EXTERNAL] Power Purchases and the Cost Report  
**Importance:** Normal

John, After discussing this issue with BPA I would suggest the following language for the cost report. I have copied Peter and Ryan so that they can correct me if they see any mistakes. I understand you need this to go out to Council members tomorrow morning. Thanks.

“Power purchases and foregone revenue have a wide variance from year to year which is caused, in part, by the fact that they are estimated from a model. The 2017 Fiscal Year exhibited an unusual and unintuitive result for both replacement power purchases (which are a part of the 4h10C calculation) and foregone revenues. According to Bonneville, one of the reasons these “cost of fish operations” were lower in 2017 can be attributed to the modeled reservoir operations in the previous year as well as an unusual runoff. Bonneville’s calculations show that operations for fish pushed some generation into months with higher power prices, and the value of that generation more than offset the fact that BPA lost approximately 210 aMW of generation due to operations for fish in 2017.”

**From:** Harrison, John  
**Sent:** Fri Jul 21 09:47:27 2017  
**To:** Case, Cynthia D (CONTR) - DIR-7; Walker, Mark  
**Cc:** Cogswell, Peter (BPA) - DI-7  
**Bcc:** cdcase@bpa.gov  
**Subject:** [EXTERNAL] RE: Draft 2016 Columbia River Basin Fish and Wildlife Program Costs Report  
**Importance:** Normal

Thanks, Cynthia. (b)(6)

John

**From:** Case, Cynthia D (CONTR) - DIR-7 [mailto:cdcase@bpa.gov]  
**Sent:** Friday, July 21, 2017 8:24 AM  
**To:** Walker, Mark <mwalker@nwcouncil.org>; Harrison, John <jharrison@nwcouncil.org>  
**Cc:** Cogswell, Peter (BPA) - DI-7 <ptcogswell@bpa.gov>  
**Subject:** RE: Draft 2016 Columbia River Basin Fish and Wildlife Program Costs Report

Hello Mark and John,

Peter Cogswell (b)(6) has asked me to send the below comment to you in order to make the deadline. Peter will follow up with you early next week. Thank you.

July 20, 2017

Mr. Henry Lorenzen, Chair  
Northwest Power and Conservation Council  
851 SW Sixth Avenue, Suite 1100  
Portland, OR 97215

RE: Draft 2016 Columbia River Basin Fish and Wildlife Program Costs Report

Dear Chair Lorenzen:

Thank you for the opportunity to comment on the Northwest Power and Conservation Council's draft 2016 Columbia River Basin Fish and Wildlife Program Costs Report. The Bonneville Power Administration appreciates the Council's efforts to develop the report and has two clarifications to suggest for the final version.

As drafted, page five of the report contains the statement:

*Approximately 25 percent of Bonneville's 2016-2017 wholesale rate of \$33.75 per megawatt hour is estimated to be associated with its fish and wildlife program.*

Unfortunately, the 25 percent figure excludes some fish costs contained in the O&M budgets of the Bureau of Reclamation and U.S. Army Corps of Engineers (\$55 million) along with additional depreciation and amortization above and beyond what is earmarked in the Cost of Service Analysis as fish-related (\$112 million). Omission of these costs led to an understatement by Bonneville, which made it into the Council's draft report. We therefore are requesting that the Council adjust the figure to account for the excluded costs by changing it to "about one-third" in the report when comparing to the BP-16 Tier 1 rate of \$33.75/MWh.

In addition, Bonneville continues to believe that the most accurate method for describing fish cost estimates as a component of its rate design is to discuss it in terms of how much lower the rate would be if fish costs were not included, as has been done in previous cost reports. The revised statement would therefore read:

*Bonneville's 2016-2017 wholesale rate of \$33.75 per megawatt hour would have been about one-third lower if fish and wildlife program costs were not included.*

We appreciate your consideration of these suggested clarifications and would be happy to discuss the final language in more detail.

*Cynthia Case*

**Regional Relations Administrative Assistant, DIR-7**

BONNEVILLE POWER ADMINISTRATION

503-230-3683

[cdcase@bpa.gov](mailto:cdcase@bpa.gov)

VanderHouwen

**From:** Egerdahl,Ryan J (BPA) - PGPR-5  
**Sent:** Fri Mar 01 11:59:27 2019  
**To:** John Harrison (jharrison@nwcouncil.org)  
**Cc:** Cogswell,Peter (BPA) - DI-7; Lennox,Alexander (BPA) - FTR-2  
**Subject:** FW: FW costs as part of Total PBL spending FY18.xlsx  
**Importance:** Normal

Hi John. How are you doing? I think Alex already got you the updated information for the 2018 FW costs, which is great. Let us know if you have any questions on that.

I have some additional input I would like you to consider adding to the report this year. It would likely only be another sentence or two that describes (with numbers) the range of financial outcomes associated with the foregone revenues and power purchases. Bo and Michael at the Public Power Council encouraged us to try and add this description so that readers would get a better sense of how much these values can vary from year to year. We think it would be a helpful addition as well.

I can get you some draft language to consider including by March 5<sup>th</sup>. How does that sound to you?

Thanks,  
Ryan

**Ryan Egerdahl**

Manager, Long Term Power Planning

**Bonneville Power Administration**

rjegerdahl@bpa.gov

| P 503.230.4732 | C (b)(6)

**From:** John Harrison [mailto:jharrison@nwcouncil.org]  
**Sent:** Tuesday, February 19, 2019 11:00 AM  
**To:** Lennox,Alexander (BPA) - FTR-2  
**Subject:** [EXTERNAL] RE: FW costs as part of Total PBL spending FY18.xlsx

There are two other things, Alex, the annual calculation of forgone revenue and power purchases attributable to fish operations, and other is the calculation of the 4.h.10.c credit.

Below are segments of text from last year's report, both of which I will use again.

Note the highlights. I added numbers I already have in yellow; you will need to update the ones in blue:

To calculate the annual power-generation share of forgone revenue and power purchases attributable to fish operations at the dams, Bonneville conducts two studies of hydropower generation for the relevant fiscal year. One study includes dam-operating requirements for fish protection, and the other has no fish-protection requirements. The differences for each month are calculated and the corresponding

monthly actual Mid-Columbia wholesale electricity market prices (as reported by the Intercontinental Exchange, or ICE) are applied. Combined with assumptions of the monthly power-demand load, this provides monthly estimates of the forgone revenue and power purchases resulting from the fish-enhancement operations. In Fiscal Year 2018, the overall annual average difference between the two studies (fish protection and no-fish protection) was 210 average-megawatts. Of this, about 119 average-megawatts contributed to the estimated \$2.9 million in forgone revenue. About 91 average megawatts contributed to the estimated \$24.3 million in replacement power purchases.

(Alex: the numbers highlighted below came from the big spreadsheet Chris Read sent me)

As noted above, Bonneville receives a credit under Section 4(h)(10)(C) of the Northwest Power Act as reimbursement for the non-power share of fish and wildlife costs that Bonneville pays annually, including a portion of the power purchases. Other costs are not factored into that 4(h)(10)(C) credit, such as forgone revenue, interest on Treasury borrowing, amortization and depreciation of capital projects, reimbursable expenditures, and the Council budget. Non-power purposes such as irrigation, navigation, and flood control comprise a weighted, system-wide average of 22.3 percent of the authorized purposes of the federal dams. The annual credit to Bonneville is based on this percentage, and is applied against Bonneville's Treasury payment at the end of the year. The 2018 credit was \$70.1 million — 22.3 percent of \$314.5 million, the total of fish and wildlife capital costs (\$31.54 million in 2018) direct program costs (\$258.7 million), and power purchases (\$24.3 million) for fish enhancement. In effect, the credit reduces the fish and wildlife costs paid by electricity ratepayers. As noted earlier in this report, the grand total of all fish and wildlife costs incurred by Bonneville in 2018 was approximately \$480.9 million (including forgone revenue and power purchases). Applying the 4(h)(10) (C) credit reduces Bonneville's total fish and wildlife-related costs, meaning that ratepayers were responsible for \$410.8 million and the federal government credited Bonneville \$70.1 million.

Thank you,  
John

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John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

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**From:** Egerdahl,Ryan J (BPA) - PGPR-5 <rjegerdahl@bpa.gov>  
**Sent:** Wednesday, April 18, 2018 9:49 AM  
**To:** John Harrison (jharrison@nwcouncil.org)  
**Cc:** Cogswell,Peter (BPA) - DI-7  
**Subject:** FW: Question about power purchases in 2017

Hi John. Our execs are reviewing our negative power purchases in 2017 explanation paper and owe me their feedback later today. They realize you are looking for this explanation by the end of this week, based on what you and Peter discussed last week at the Council meeting. Also, we are meeting with the PPC on Friday on this topic. We are looking for their support and understanding on this explanation before we consider it final and ready to be included in the Council F&W report. So, we may not have our final explanation ready by the end of this week. However, I will talk with Peter and see if we can send you our draft before or by this Friday to give you a sense of how it looks. It is getting close to 2 pages in length and I suspect that is more than you were looking for.

After you see our document explaining this topic, we should have a short conference call to talk about it. Thanks for your patience on this.

Ryan

**Ryan Egerdahl**  
Manager, Long Term Power Planning  
**BONNEVILLE POWER ADMINISTRATION**  
[rjegerdahl@bpa.gov](mailto:rjegerdahl@bpa.gov)  
| P 503.230.4732 | C (b)(6)

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**From:** John Harrison [mailto:jharrison@nwcouncil.org]  
**Sent:** Friday, March 23, 2018 10:03 AM  
**To:** Egerdahl,Ryan J (BPA) - PGPR-5  
**Subject:** [EXTERNAL] RE: Question about power purchases in 2017

Thanks, Ryan.

Your internal processes are critical, and your execs need to be comfortable with the language, which I most likely will insert straight into the report unchanged (we'll see – I reserve the right to negotiate with you if I think something isn't clear, but that's not been a problem in the past).

So thanks for your help, and let me know when you've got an explanation everyone agrees with.

If I need to, I will insert a placeholder in the report for now, which would be OK for the first review by our Public Affairs Committee in April. Then, for the May release of a draft for public comment, I would need the language by Tuesday May 1, before noon, which is the deadline for us staffers to submit materials for the May Council meeting packet (one week in advance of the meeting). I'd like to have it sooner, of course, but that's the drop-dead deadline if we're going to keep on our usual annual schedule for this report.

So we do have some time. I just like to get things done well in advance when I can.

Cheers,

John

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John Harrison  
Information Officer  
Northwest Power and Conservation Council

503-222-5161 (office)  
(b)(6) (cell)

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**From:** Egerdahl,Ryan J (BPA) - PGPR-5 [<mailto:rjegerdahl@bpa.gov>]  
**Sent:** Friday, March 23, 2018 9:15 AM  
**To:** John Harrison <[jharrison@nwcouncil.org](mailto:jharrison@nwcouncil.org)>  
**Subject:** RE: Question about power purchases in 2017

Hi John. No worries. You were very clear. When I said we are currently working on getting an internally agreed upon summary explanation that could go into the Council report, I was referring to the quick explanation. But first, some of our BPA executives want to review this explanation before it goes public as it likely has implications on how external parties compare this negative power purchase event to current spill operations in particular. We likely would get their approval on the explanation next week or later. I agree that we don't probably need to meet next week for this issue. The SMEs I was referring to are Subject Matter Experts, the staff that calculate these power purchases.

I'll see what I can do today to get this internal review expedited. Thx

**Ryan Egerdahl**  
Manager, Long Term Power Planning  
**BONNEVILLE POWER ADMINISTRATION**  
[rjegerdahl@bpa.gov](mailto:rjegerdahl@bpa.gov)  
| P 503.230.4732 | C (b)(6)

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**From:** John Harrison [<mailto:jharrison@nwcouncil.org>]  
**Sent:** Friday, March 23, 2018 8:28 AM  
**To:** Egerdahl,Ryan J (BPA) - PGPR-5  
**Subject:** [EXTERNAL] RE: Question about power purchases in 2017

Hi, Ryan:

I think I may have misled you about what I need for my report, and I'm sorry about that. I need only two or three sentences explaining why the power purchase costs were negative in 2017, and I need them sooner than later. We're putting the report together now. Thus, I don't think you need to spend an hour with me, and bring along two SMEs (whatever those are – I don't know the acronym). I just need a quick explanation. Can you do that?  
John

---

**John Harrison**  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

---

**From:** Egerdahl,Ryan J (BPA) - PGPR-5 [<mailto:rjegerdahl@bpa.gov>]  
**Sent:** Thursday, March 22, 2018 3:49 PM  
**To:** John Harrison <[jharrison@nwcouncil.org](mailto:jharrison@nwcouncil.org)>  
**Subject:** RE: Question about power purchases in 2017

Hi John. As a starting point, how about meeting next Tuesday from 9:30 to 10:30am in the Council office? I would bring two of my SMEs. For the annual report, I think that deadline could work, but we can talk more about that when we get together. Thx again.

Ryan

**Ryan Egerdahl**  
Manager, Long Term Power Planning  
**BONNEVILLE POWER ADMINISTRATION**  
[rjeerdahl@bpa.gov](mailto:rjeerdahl@bpa.gov)  
| P 503.230.4732 | C (b)(6)

---

**From:** John Harrison [<mailto:jharrison@nwcouncil.org>]  
**Sent:** Thursday, March 22, 2018 8:50 AM  
**To:** Egerdahl,Ryan J (BPA) - PGPR-5  
**Subject:** [EXTERNAL] RE: Question about power purchases in 2017

It would be great for your to come over, Ryan, or for us to come over there. My boss, Mark Walker, our director of public affairs, and I would be the most interested, but we might also get Tony Grover, our fish and wildlife director, to join us.

I appreciate your awareness of our deadline, which is this: Ideally, I would like to give a draft to our Public Affairs Committee to review at the April Council meeting, on the 10<sup>th</sup> and 11<sup>th</sup>, and then have the Council release a draft report for month of public comment at the May meeting on the 8<sup>th</sup> and 9<sup>th</sup>, and then have the Council vote final approval of the report at the June meeting on the 12<sup>th</sup> and 13<sup>th</sup>. Does that work for you?

As for meeting with us, tomorrow (Friday) or next week would work for me. I could check with Mark about his schedule.

What works for you?

John

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

---

**From:** Egerdahl,Ryan J (BPA) - PGPR-5 [<mailto:rjeerdahl@bpa.gov>]  
**Sent:** Thursday, March 22, 2018 8:42 AM  
**To:** John Harrison <[jharrison@nwcouncil.org](mailto:jharrison@nwcouncil.org)>  
**Cc:** Cogswell,Peter (BPA) - DI-7 <[ptcogswell@bpa.gov](mailto:ptcogswell@bpa.gov)>  
**Subject:** RE: Question about power purchases in 2017

Hi John. That is a great question. ☺ We explained this quite a bit within BPA last year as these results were developing. Even the folks that are generally familiar with the Fish Credit method were surprised by the results and it took many explanations for them to reach an understanding. Obviously, we as the process experts are trying to make this easier to understand, but much of the explanation deals with getting into the methodology a bit. With that, I would like to come down and talk about these results, maybe even next week. Also, we are currently working on getting an internally agreed upon summary explanation that might ideally be published in the Council annual report since readers will probably have questions about this too.

This may all sound great, but I realize that you have some schedule deadlines to meet for this report. When are you planning to publish it? We definitely want to help you meet this target as much as possible.

Thx,  
Ryan

**Ryan Egerdahl**  
Manager, Long Term Power Planning  
**BONNEVILLE POWER ADMINISTRATION**  
[riegerdahl@bpa.gov](mailto:riegerdahl@bpa.gov)  
| P 503.230.4732 | C (b)(6)

---

**From:** John Harrison [<mailto:jharrison@nwcouncil.org>]  
**Sent:** Wednesday, March 21, 2018 8:40 AM  
**To:** Egerdahl,Ryan J (BPA) - PGPR-5  
**Subject:** [EXTERNAL] Question about power purchases in 2017

Hi, Ryan:

Alex Lennox gave me your name as the person to ask why power purchases as the result of fish enhancement (spill) were negative \$20.5 million in FY 17. I do an annual report on Bonneville's costs to implement the Council's fish and wildlife program, and Alex provides some of the numbers – including a spreadsheet that shows power purchases and forgone revenues. He said I should ask you for an explanation of the negative number.

Thank you,

John Harrison

---

**John Harrison**  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

**From:** Egerdahl,Ryan J (BPA) - PGPR-5

**Sent:** Wed Jul 11 13:08:08 2018

**To:** John Harrison (jharrison@nwcouncil.org)

**Cc:** Chennell,Mildrid A (BPA) - PGPR-5; Cogswell,Peter (BPA) - DI-7; Johnston,Kenneth H (BPA) - DIT-7; Racht,Peggy (BPA) - PGPR-5

**Subject:** Negative Fish Costs FY17

**Importance:** Normal

**Attachments:** Negative Fish Costs FY17.docx

Hi John. (b)(6)

(b)(6)

(b)(6)

I have attached a few edits that I would appreciate get included in the report if possible. If not, we completely understand.

Please let Milli or me know if you have any questions.

Thx,  
Ryan

**Ryan Egerdahl**

Manager, Long Term Power Planning

**Bonneville Power Administration**

[rjegerdahl@bpa.gov](mailto:rjegerdahl@bpa.gov)

| P 503.230.4732 | C (b)(6)

**Negative \$20.5 million in power purchases.**

Bonneville buys power in the wholesale market during periods when dam operations to protect migrating fish reduce hydropower generation below firm loads, such as by spilling water over dams in the spring or storing it behind dams in winter months in anticipation of required spring spillflow augmentation. The negative number for 2017 is an anomaly. Power purchases and forgone revenue have a wide variance from year to year which is caused due to, in part, by the fact that they are estimated from a model differences in streamflows, power prices and operations. The 2017 Fiscal Year exhibited an unusual and unintuitive result for both replacement power purchases (which are a part of the 4h10C calculation) and forgone revenues. According to Bonneville, one of the reasons these “cost of fish operations” were lower in 2017 can be attributed to the modeled reservoir operations in the previous year as well as an unusual runoff. Bonneville’s calculations show that operations for fish pushed some generation into months with higher power prices, and the value of that generation more than offset the fact that Bonneville lost approximately 210 average megawatts of generation due to operations for fish in 2017.

**Power system costs**

The Council’s program and the biological opinions on Federal Columbia River Power System operations issued by NOAA Fisheries and the U.S. Fish and Wildlife Service specify hydropower dam operations for fish that also affect power generation. These measures include river and dam operations to protect spawning and rearing areas for both anadromous and resident fish and to improve passage conditions at dams for juvenile salmon and steelhead. Sometimes these operations require Bonneville to purchase power to meet loads while at other times Bonneville simply forgoes a revenue-making opportunity (forgone revenue). Regardless of how Bonneville handles the reduced generation, fish operations to comply with these federal requirements affect Bonneville rates for utility customers. Bonneville customers pay the cost of power Bonneville purchases to meet regional loads. Also, compliance with these legal requirements, and others, limits the amount of revenue that would be possible from an unrestricted operation of the hydropower system. For reporting purposes, on an annual basis Bonneville calculates the value of both power purchases and forgone revenues attributable to fish operations and reports them as part of its costs to mitigate the impacts to fish and wildlife from operation of the federal hydropower system. While the Council recognizes there is debate over the reporting of these power-system costs, a principle of the Act requires the Council to consider the “monetary costs and electric power issues resulting from implementation of the program,” which are allocated by the Administrator. Accordingly, this report includes forgone revenues and power purchases as reported by Bonneville, as the Council does not have the capability to audit Bonneville’s financial records.

The amounts of forgone revenue and power purchases vary from year to year because the demand for power and the amount of water in the Columbia River system also vary. During some months of the year (most notably spring), the hydropower system generates sufficient power, even with fish operations, to both meet firm load and generate surplus power. During these months, the fish operations often reduce electrical generation at the dams, thereby lowering so-called “secondary” revenues from sales of surplus power (water that is spilled over dams to aid fish passage cannot be used to generate power). Bonneville calls these revenue reductions “forgone revenues.” Among the many factors Bonneville considers in setting rates, one is an assumption that surplus power sales will be lowered because of how the river and dams are operated for fish. During other months of the year, and under low-water conditions, the hydropower system does not generate enough power to meet firm loads and Bonneville must supplement through purchasing electricity

from other suppliers. When fish operations necessitate these additional power purchases to meet firm loads, Bonneville identifies this increment as “power purchases for fish enhancement” in its fish and wildlife costs.

To calculate the annual power-generation share of forgone revenue and power purchases attributable to fish operations at the dams, Bonneville conducts two studies of hydropower generation for the relevant fiscal year. One study includes dam-operating requirements for fish protection, and the other has no fish-protection requirements. The differences for each month are calculated and ~~applied to~~ the corresponding monthly actual Mid-Columbia wholesale electricity market prices (as reported by [ICE](#)) ~~are applied~~ [Dow Jones](#). Combined with assumptions of the monthly power-demand load, this provides monthly estimates of the forgone revenue and power purchases resulting from the fish-enhancement operations.

In Fiscal Year 2017, the overall annual average difference between the two studies (fish protection and no-fish protection) was 210 average-megawatts. Of this, about 119 average-megawatts contributed to the estimated \$9.6 million in forgone revenue. About 91 average megawatts contributed to the estimated negative \$20.5 million in replacement power purchases. The negative amount, an [anomaly](#), is explained on page 4 of this report.

As noted above, Bonneville receives a credit under Section 4(h)(10)(C) of the Northwest Power Act as reimbursement for the non-power share of fish and wildlife costs that Bonneville pays annually, including a portion of the power purchases. Other costs are not factored into that 4(h)(10)(C) credit, such as forgone revenue, interest on Treasury borrowing, amortization and depreciation of capital projects, reimbursable expenditures, and the Council budget. Non-power purposes such as irrigation, navigation, and flood control comprise a weighted, system-wide average of 22.3 percent of the authorized purposes of the federal dams. The annual credit to Bonneville is based on this percentage, and is applied against Bonneville’s Treasury payment at the end of the year.

The 2017 credit was \$53.7 million — 22.3 percent of \$241 million, the total of fish and wildlife capital costs (\$6.8 million), direct program costs (\$254.7 million), and power purchases (negative \$20.5 million) for fish enhancement. In effect, the credit reduces the fish and wildlife costs paid by electricity ratepayers. As noted earlier in this report, the grand total of all fish and wildlife costs incurred by Bonneville in 2017 was approximately \$450.4 million (including forgone revenue and power purchases). Applying the 4(h)(10)(C) credit reduces Bonneville’s total fish and wildlife-related costs, meaning that ratepayers were responsible for \$396.7 million and the federal government credited Bonneville \$53.7 million.

**From:** Tom Karier  
**Sent:** Mon Apr 30 09:07:02 2018  
**To:** John Harrison  
**Cc:** Cogswell,Peter - DKR-7; Stacy Horton; Egerdahl,Ryan J (BPA) - PGPR-5  
**Subject:** Power Purchases and the Cost Report  
**Importance:** Normal

John, After discussing this issue with BPA I would suggest the following language for the cost report. I have copied Peter and Ryan so that they can correct me if they see any mistakes. I understand you need this to go out to Council members tomorrow morning. Thanks.

“Power purchases and foregone revenue have a wide variance from year to year which is caused, in part, by the fact that they are estimated from a model. The 2017 Fiscal Year exhibited an unusual and unintuitive result for both replacement power purchases (which are a part of the 4h10C calculation) and foregone revenues. According to Bonneville, one of the reasons these “cost of fish operations” were lower in 2017 can be attributed to the modeled reservoir operations in the previous year as well as an unusual runoff. Bonneville’s calculations show that operations for fish pushed some generation into months with higher power prices, and the value of that generation more than offset the fact that BPA lost approximately 210 aMW of generation due to operations for fish in 2017.”

**From:** Case, Cynthia D (CONTR) - DIR-7  
**Sent:** Fri Jul 21 08:24:11 2017  
**To:** 'Mwalker@nwcouncil.org'; 'jharrison@nwcouncil.org'  
**Cc:** Cogswell, Peter (BPA) - DI-7  
**Subject:** RE: Draft 2016 Columbia River Basin Fish and Wildlife Program Costs Report  
**Importance:** Normal

Hello Mark and John,

Peter Cogswell (b)(6) has asked me to send the below comment to you in order to make the deadline. Peter will follow up with you early next week. Thank you.

July 20, 2017

Mr. Henry Lorenzen, Chair  
Northwest Power and Conservation Council  
851 SW Sixth Avenue, Suite 1100  
Portland, OR 97215

RE: Draft 2016 Columbia River Basin Fish and Wildlife Program Costs Report

Dear Chair Lorenzen:

Thank you for the opportunity to comment on the Northwest Power and Conservation Council's draft 2016 Columbia River Basin Fish and Wildlife Program Costs Report. The Bonneville Power Administration appreciates the Council's efforts to develop the report and has two clarifications to suggest for the final version.

As drafted, page five of the report contains the statement:

*Approximately 25 percent of Bonneville's 2016-2017 wholesale rate of \$33.75 per megawatt hour is estimated to be associated with its fish and wildlife program.*

Unfortunately, the 25 percent figure excludes some fish costs contained in the O&M budgets of the Bureau of Reclamation and U.S. Army Corps of Engineers (\$55 million) along with additional depreciation and amortization above and beyond what is earmarked in the Cost of Service Analysis as fish-related (\$112 million). Omission of these costs led to an understatement by Bonneville, which made it into the Council's draft report. We therefore are requesting that the Council adjust the figure to account for the excluded costs by changing it to "about one-third" in the report when comparing to the BP-16 Tier 1 rate of \$33.75/MWh.

In addition, Bonneville continues to believe that the most accurate method for describing fish cost estimates as a component of its rate design is to discuss it in terms of how much lower the rate would be if fish costs were not included, as has been done in previous cost reports. The revised statement would

therefore read:

*Bonneville's 2016-2017 wholesale rate of \$33.75 per megawatt hour would have been about one-third lower if fish and wildlife program costs were not included.*

We appreciate your consideration of these suggested clarifications and would be happy to discuss the final language in more detail.

*Cynthia Case*

**Regional Relations Administrative Assistant, DIR-7**

BONNEVILLE POWER ADMINISTRATION

503-230-3683

[cdc@bpa.gov](mailto:cdc@bpa.gov)

VanderHouwen

**From:** Mercier,Bryan K (BPA) - EW-4  
**Sent:** Tue Oct 02 13:27:58 2018  
**To:** 'Tom Karier'; Cogswell,Peter (BPA) - E-4  
**Cc:** Guy Norman; Stacy Horton  
**Subject:** RE: Accord Budget Trends  
**Importance:** Normal  
**Attachments:** image001.jpg; image002.jpg; image003.jpg; image007.jpg; image008.jpg; image009.jpg; image010.png; image011.png; image012.png

Hi Tom,

Peter and I would be happy to chat further in Wenatchee about the data below. We're extremely busy with Accord, BiOp and other initiatives at the moment, but I wanted to point out an important issue with your analysis below.

Your data seems to mix expenditures (i.e., actuals) and budgets, which is apples to oranges. I would recommend comparing historical budgets to future budgets. We'd be happy to discuss next week how we can help pull this data together for you, because it's not a simple task to compile historical budgets for Accord projects due to the flexible budget rules (reschedules, 120%, etc.).

Can we find some time at a break in the meeting next Tuesday to chat?

Best,  
bkm

Bryan K Mercier  
503.230.3991

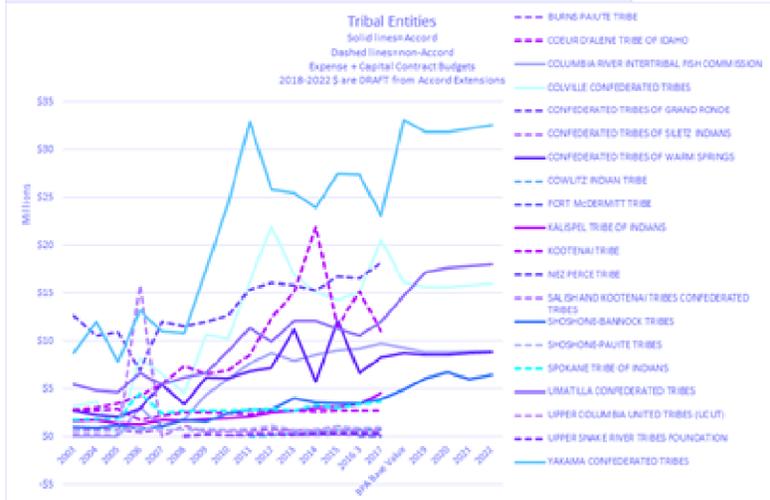
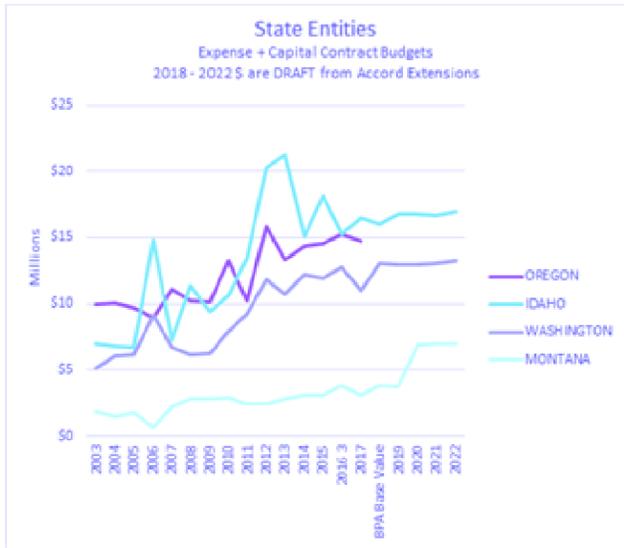


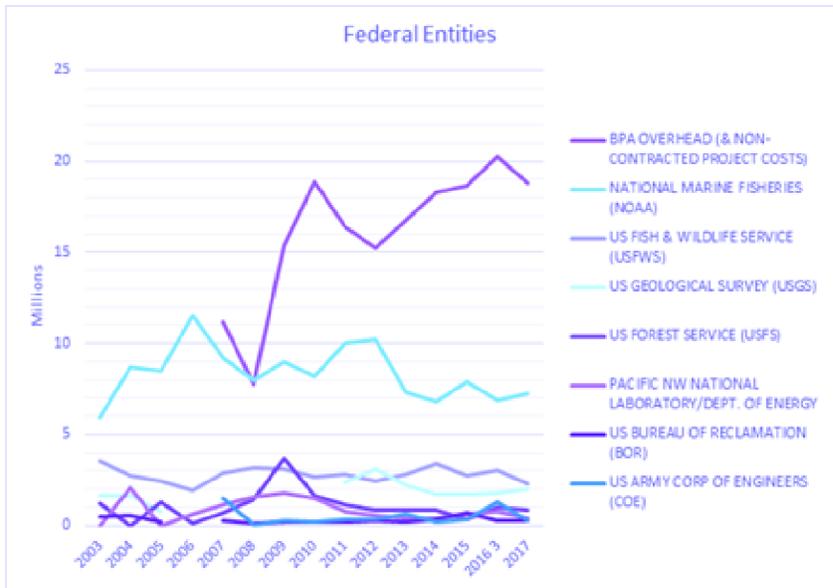
**From:** Tom Karier [mailto:tkarier@nwcouncil.org]  
**Sent:** Tuesday, October 02, 2018 11:46 AM  
**To:** Cogswell,Peter (BPA) - E-4; Mercier,Bryan K (BPA) - EW-4  
**Cc:** Guy Norman; Stacy Horton  
**Subject:** [EXTERNAL] Accord Budget Trends

Peter and Brian,

I was interested in how the new accord funding compared to recent budgets for states and tribes. To that end, I asked Stacy to compile historic spending based on information BPA provided for our annual cost report and the budgets in the new accords. Since we do not have 2018 actuals yet, for that year she used the baseline BPA reported for the accords. While the budgets look fairly level for most entities they seem more likely to be slightly increasing than decreasing. Does this look reasonably correct to you? Do you see any errors? If you have better data I would be glad to see that.

I've also included recent historical spending for federal agencies at the end.





**From:** Cogswell, Peter (BPA) - DI-7  
**Sent:** Mon Apr 09 17:26:09 2018  
**To:** John Harrison  
**Subject:** RE: Negative power purchase number  
**Importance:** Normal

Hey John:

Let's find some time tomorrow to discuss – it is complicated in terms of timing. I will explain.

**From:** John Harrison [mailto:jharrison@nwcouncil.org]  
**Sent:** Monday, April 9, 2018 10:42 AM  
**To:** Cogswell, Peter (BPA) - DI-7 <ptcogswell@bpa.gov>  
**Subject:** Negative power purchase number

Peter, I meet with the Public Affairs Committee tomorrow and I'd like to talk about the costs report. Did you have your meeting Friday? If so, can you provide a few sentences of explanation about the negative \$20.5 million in power purchase costs in FY 2017?

Thanks,

John

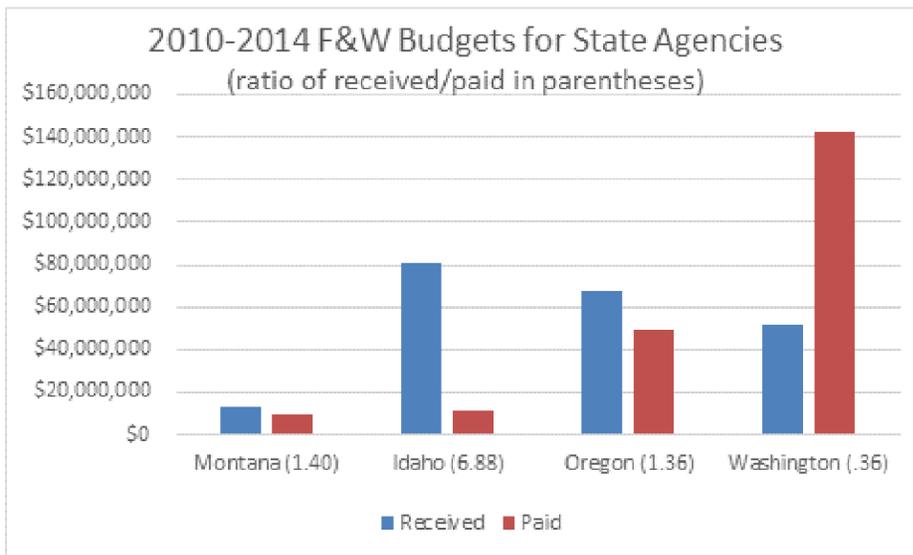
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John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

**From:** Karier, Tom  
**Sent:** Fri Sep 09 11:56:33 2016  
**To:** Cogswell, Peter - DKR-7  
**Cc:** Horton, Stacy  
**Subject:** State shares of the F&W budget  
**Importance:** Normal  
**Attachments:** image003.png; State Fish and Wildlife Budgets.xlsm

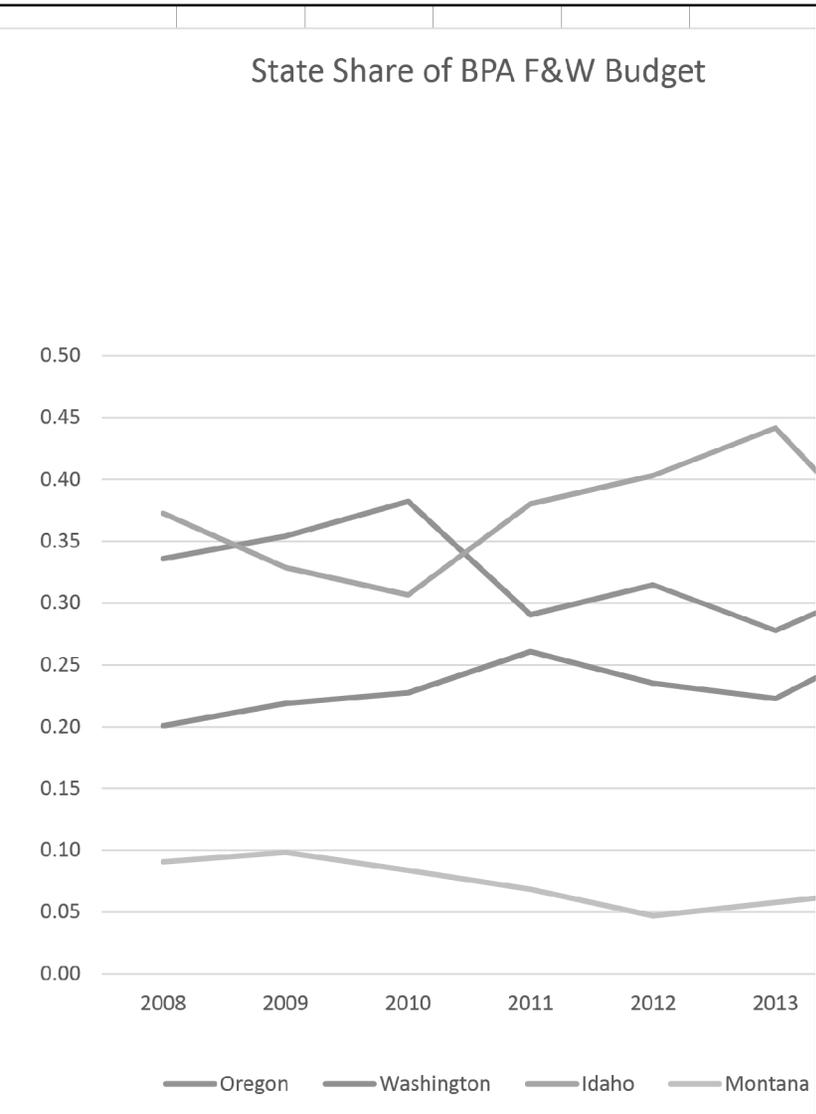
Peter,

I have been looking at what state agencies receive from BPA's fish and wildlife budget and comparing that to the percentages that the state's ratepayers fund. The following is a summary figure. It shows how much state agencies received from 2010 to 2014 and estimates of the amount the state paid of that total based on state shares of Tier 1 and Tier 2 in 2016. If you see any mistakes, let me know. The sources of the data are all from BPA either from the Council's cost report or provided directly to me. The spreadsheet is attached. Thanks.



|  | 2008         | 2009         | 2010         | 2011         | 2012         |
|--|--------------|--------------|--------------|--------------|--------------|
| OREGON DEPARTMENT OF FISH & WILDLIFE       | \$10,237,010 | \$10,170,389 | \$13,269,950 | \$10,238,326 | \$15,805,509 |
| OREGON WATERSHED ENHANCEMENT BOARD         |              |              |              |              | \$59,516     |
| OREGON SUBTOTAL                            | \$10,237,010 | \$10,170,389 | \$13,269,950 | \$10,238,326 | \$15,865,025 |
| IDAHO DEPARTMENT OF FISH & WILDLIFE        | \$11,072,547 | \$8,429,207  | \$9,174,578  | \$10,847,630 | \$17,836,561 |
| IDAHO SOIL & WATER CONSERVATION COMMISSION | \$84,952     | \$91,275     | \$66,967     |              |              |
| IDAHO STATE OFFICE OF SPECIES CONSERVATION | \$199,247    | \$923,272    | \$1,397,773  | \$2,551,533  | \$2,487,433  |
| IDAHO SUBTOTAL                             | \$11,356,746 | \$9,443,754  | \$10,639,318 | \$13,399,163 | \$20,323,994 |
| WASHINGTON DEPARTMENT OF FISH & WILDLIFE   | \$5,912,604  | \$6,134,350  | \$7,712,743  | \$9,148,722  | \$11,855,753 |
| WASHINGTON DEPARTMENT OF ECOLOGY           | \$211,309    | \$150,324    | \$181,562    | \$43,689     |              |
| WASHINGTON SUBTOTAL                        | \$6,123,913  | \$6,284,673  | \$7,894,305  | \$9,192,411  | \$11,855,753 |
| MONTANA FISH, WILDLIFE AND PARKS (MFWP)    | \$2,762,721  | \$2,829,533  | \$2,913,118  | \$2,414,914  | \$2,382,531  |
| MONTANA SUBTOTAL                           | \$2,762,721  | \$2,829,533  | \$2,913,118  | \$2,414,914  | \$2,382,531  |
| STATE TOTAL                                | \$30,480,390 | \$28,728,349 | \$34,716,691 | \$35,244,814 | \$50,427,303 |
| Percentage 2008 to 2014                    |              |              |              |              |              |
|  | 2008         | 2009         | 2010         | 2011         | 2012         |
| Oregon                                     | 0.34         | 0.35         | 0.38         | 0.29         | 0.31         |
| Washington                                 | 0.20         | 0.22         | 0.23         | 0.26         | 0.24         |
| Idaho                                      | 0.37         | 0.33         | 0.31         | 0.38         | 0.40         |
| Montana                                    | 0.09         | 0.10         | 0.08         | 0.07         | 0.05         |
| Totals 2010 to 2014                        |              |              |              |              |              |
| Idaho                                      |              |              |              |              |              |
| Oregon                                     |              |              |              |              |              |
| Washington                                 |              |              |              |              |              |
| Montana                                    |              |              |              |              |              |

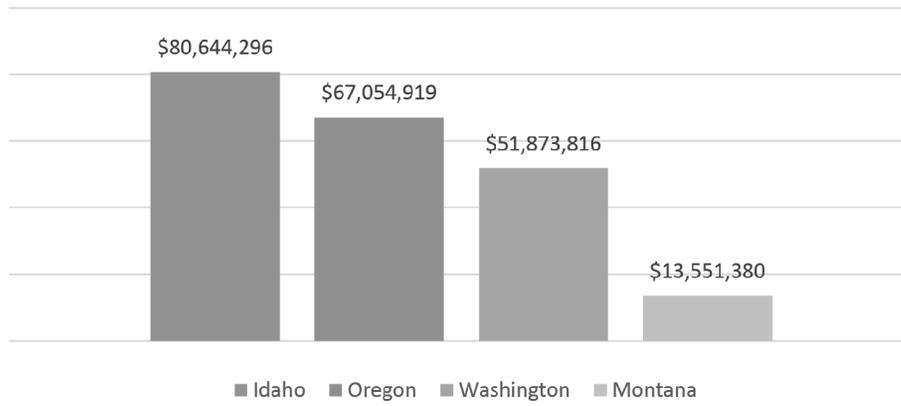
|              |              | 2010 to 2014 |  |  |  |
|--------------|--------------|--------------|--|--|--|
| 2013         | 2014         |              |  |  |  |
| \$13,248,075 | \$14,244,566 |              |  |  |  |
| \$76,367     | \$112,611    |              |  |  |  |
| \$13,324,441 | \$14,357,177 |              |  |  |  |
| \$18,281,036 | \$13,726,829 |              |  |  |  |
|              |              |              |  |  |  |
| \$2,905,500  | \$1,368,456  |              |  |  |  |
| \$21,186,535 | \$15,095,286 |              |  |  |  |
| \$10,691,474 | \$12,239,873 |              |  |  |  |
|              |              |              |  |  |  |
| \$10,691,474 | \$12,239,873 |              |  |  |  |
| \$2,777,167  | \$3,063,650  |              |  |  |  |
| \$2,777,167  | \$3,063,650  |              |  |  |  |
| \$47,979,618 | \$44,755,986 |              |  |  |  |
|              |              |              |  |  |  |
| 2013         | 2014         |              |  |  |  |
| 0.28         | 0.32         |              |  |  |  |
| 0.22         | 0.27         |              |  |  |  |
| 0.44         | 0.34         |              |  |  |  |
| 0.06         | 0.07         |              |  |  |  |
|              |              |              |  |  |  |
|              |              |              |  |  |  |
|              |              | \$80,644,296 |  |  |  |
|              |              | \$67,054,919 |  |  |  |
|              |              | \$51,873,816 |  |  |  |
|              |              | \$13,551,380 |  |  |  |







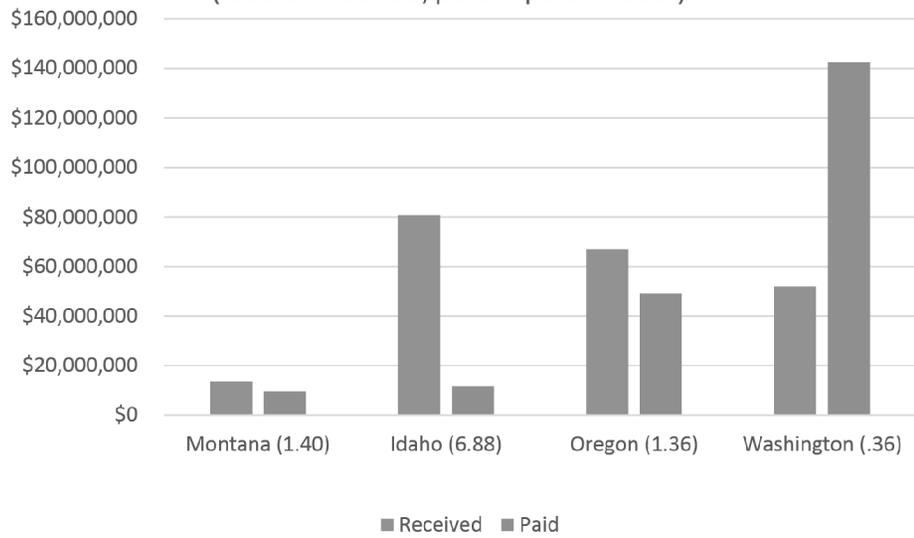
Total State Agency Budgets from BPA F&W Fund  
2010 to 2014







2010-2014 F&W Budgets for State Agencies  
(ratio of received/paid in parentheses)



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**From:** Cogswell, Peter (BPA) - DI-7 <ptcogswell@bpa.gov>  
**Sent:** Wednesday, May 02, 2018 1:18 PM  
**To:** Tom Karier (tkarier@nwcouncil.org)  
**Subject:** Thanks for your help

Hey Tom:

Just a quick note to say thanks for your help getting some language into the draft fish cost report. Ryan was out Monday, but likes the language you proposed. We may have some slight edits for the final report, but we will have some time to work through things and see how people react. I also will catch up with you before John presents the draft next week – I talked to him and is not planning to mention anything about the language. I think that is the right way to go for the draft, but it may be worth getting something on the record when the Council approves the final report.

See you in Boise.

**From:** Grant, Sharon D (BPA) - EWU-4  
**Sent:** Wed Mar 22 07:54:03 2017  
**To:** Harrison, John (jharrison@nwcouncil.org)  
**Subject:** BPA F&W Costs for FY2016  
**Importance:** Normal

**Attachments:** 2-Direct Program Expenditures by Species-Exp&Cap.xlsx; 3-Direct Program Expenditures of FCRPS BiOp projects.xlsx; 4-Direct Program Spending on ESA Listed Focal Species.xlsx; 4-FY15REV\_Direct Program Spending on ESA Listed Focal Species.xlsx; 5-Direct Program Expenditures by Fund.xlsx; 6-Direct Program Expenditures by Category.xlsx; 7-Direct Program Expenditures for RME.xlsx; 8-Direct Program Expenditures by Province.xlsx; 9-Direct Expenditures by Location-State.xlsx; 10-Direct Program Expenditures by Contractor Type.xlsx; 11-Direct Expenditure of Land Acquisitions.xlsx; xx-Direct Program Expenditures Artificial Production by emphasis.xlsx

Hi John,

The reports should now be ready for prime time. Bryan Mercier has given his go-ahead. I assume you have already received the overall costs spreadsheet from Finance. Last year they said you get it straight from them, but if you didn't I can work on that.

I revised anything that changed for FY15, which only leaves one report that's not incorporated into the FY16 tables (Report 4). If you don't need that one, just let me know for next time. I included the Artificial Production report that you asked for after the fact for FY 15.

If I missed anything, just let me know.

Sharon Grant  
Bonneville Power Administration  
503-230-5215

| Direct Program Expenditures by Species, FY2014   |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
|--|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Species Type   | 2006                 | 2007                 | 2008                 | 2009                 | 2010                 | 2011                 | 2012                 | 2013                 | 2014                 | 2015 <sup>1</sup>    | 2016                 |
| <b>Expense Expenditures</b>  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| Anadromous Fish  | \$97,220,985         | \$95,383,739         | \$93,937,949         | \$115,447,417        | \$133,710,043        | \$152,268,152        | \$172,625,717        | \$162,598,813        | \$160,287,940        | \$181,979,402        | \$187,114,842        |
| Resident Fish  | \$19,147,678         | \$20,466,941         | \$30,166,347         | \$30,945,648         | \$33,492,947         | \$38,469,680         | \$41,996,004         | \$39,747,604         | \$34,671,529         | \$36,131,999         | \$43,312,217         |
| Wildlife   | \$7,380,452          | \$8,894,314          | \$10,153,366         | \$11,491,287         | \$12,105,809         | \$12,032,226         | \$13,214,570         | \$11,401,471         | \$11,970,486         | \$16,630,031         | \$14,095,153         |
| Program Support  | \$14,113,271         | \$14,499,336         | \$14,620,375         | \$19,975,090         | \$20,280,762         | \$18,278,218         | \$21,130,895         | \$25,235,638         | \$24,850,807         | \$23,435,779         | \$13,619,978         |
| CJH Cost Share   |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| <b>Capital Expenditures</b>  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| Anadromous Fish  | \$9,409,945          | \$9,738,655          | \$8,817,105          | \$11,123,909         | \$26,914,846         | \$56,777,879         | \$33,036,552         | \$32,438,551         | \$6,079,913          | \$10,173,486         | \$4,896,855          |
| Resident Fish  | \$6,540,615          | \$977,724            | \$843,692            | \$10,279,552         | \$3,163,912          | \$20,472,138         | \$11,692,569         | \$8,440,507          | \$16,958,535         | \$2,603,188          | \$2,164,485          |
| Wildlife   | \$19,462,457         | \$24,469,222         | \$6,525,720          | \$2,261,438          | \$9,564,849          | \$18,674,437         | \$15,853,187         | \$10,813,833         | \$14,438,818         | \$9,789,350          | \$8,973,342          |
| Program Support <sup>2</sup>   | \$1,141              | \$0                  | \$9,347,954          | \$3,747,363          | \$354,784            | -\$101,012           | \$42,215             | \$375,475            | -\$123,918           | -\$1,192,886         | -\$4,698             |
| CJH Cost Share   |                      |                      |                      |                      |                      | -\$5,668,821         | -\$3,141,637         |                      |                      |                      |                      |
| <b>TOTAL</b>   | <b>\$173,276,546</b> | <b>\$174,429,930</b> | <b>\$174,413,908</b> | <b>\$205,271,805</b> | <b>\$237,587,953</b> | <b>\$311,214,895</b> | <b>\$306,409,772</b> | <b>\$291,101,892</b> | <b>\$269,134,110</b> | <b>\$279,550,549</b> | <b>\$274,172,174</b> |
| Notes:   |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| 1) Starting in 2008, spending can be tracked back to a work element where the contractor explicitly identified the "Primary Focal Species" benefiting from the work.   |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| 2) Program Support includes contracts that contain only administrative work elements or program level spending that could not be mapped to a specific project, as well as BPA Internal overhead such as personnel costs. |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| 3) FY2015 revised as of March 9, 2017.   |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |

| Direct Program Expenditures of FCRPS BiOp Projects, FY2016   |                      |                      |                      |                      |                      |                      |                      |                      |                      |
|--|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Category   | 2008                 | 2009                 | 2010                 | 2011                 | 2012                 | 2013                 | 2014                 | 2015 <sup>3</sup>    | 2016 <sup>2</sup>    |
| Expense  | \$91,806,508         | \$113,900,603        | \$129,758,323        | \$143,477,289        | \$162,060,445        | \$151,177,409        | \$143,128,948        | \$165,362,221        | \$159,987,744        |
| Capital  | \$9,869,097          | \$11,668,863         | \$21,761,323         | \$31,297,548         | \$29,240,867         | \$29,683,425         | \$5,925,196          | \$7,703,153          | \$1,249,955          |
| <b>TOTAL</b>   | <b>\$101,675,605</b> | <b>\$125,569,466</b> | <b>\$151,519,646</b> | <b>\$174,774,837</b> | <b>\$191,301,312</b> | <b>\$180,860,834</b> | <b>\$149,054,144</b> | <b>\$173,065,374</b> | <b>\$161,237,699</b> |
| <b>Notes:</b>  |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| 1) Estimated spending is based at the project level. Therefore, if a project partially supports the FCRPS BiOp, all expenditures for the project are included. |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| 2) FY2015 reviewed as of March 9, 2017, no changes.  |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| 3) Passage projects were moved from Capital to Expense funding starting with FY16 contracts.   |                      |                      |                      |                      |                      |                      |                      |                      |                      |

### Direct Program Expenditures on ESA-Listed Fish, 2016

| ESA Listed Focal Species Name                          | Expense<br>"Direct"<br>Spending | Expense<br>"Contract<br>Administration"<br>Spending | Expense Total<br>Spending | Capital "Direct"<br>Spending | Capital<br>"Contract<br>Administration"<br>Spending | Capital Total<br>Spending | Total<br>Spending    |
|--|---------------------------------|---|---------------------------|------------------------------|---|---------------------------|----------------------|
| Chinook - Lower Columbia River ESU (threatened)        | \$5,771,555                     | \$1,532,273   | \$7,303,828               | (\$230,788)                  | \$7,890   | (\$222,898)               | \$7,080,930          |
| Chinook - Snake River Fall ESU (threatened)            | \$8,792,629                     | \$2,831,049   | \$11,623,678              | \$0                          | \$0   | \$0                       | \$11,623,678         |
| Chinook - Snake River Spring/Summer ESU (threatened)   | \$20,231,520                    | \$5,856,319   | \$26,087,840              | (\$23,958)                   | (\$1,924)   | (\$25,882)                | \$26,061,958         |
| Chinook - Upper Columbia River Spring ESU (endangered) | \$10,717,252                    | \$4,602,931   | \$15,320,183              | \$19,935                     | \$819,862   | \$839,797                 | \$16,159,979         |
| Chinook - Upper Willamette River ESU (threatened)      | \$4,338,263                     | \$1,355,693   | \$5,693,956               | \$0                          | \$0   | \$0                       | \$5,693,956          |
| Chum - Columbia River ESU (threatened)                 | \$4,297,894                     | \$480,189   | \$4,778,083               | \$0                          | \$0   | \$0                       | \$4,778,083          |
| Coho - Lower Columbia River ESU (threatened)           | \$4,425,296                     | \$852,806   | \$5,278,103               | \$26,581                     | \$9,666   | \$36,247                  | \$5,314,350          |
| Sockeye - Snake River ESU (endangered)                 | \$6,846,272                     | \$1,263,397   | \$8,109,669               | \$0                          | \$0   | \$0                       | \$8,109,669          |
| Steelhead - Lower Columbia River DPS (threatened)      | \$5,688,755                     | \$1,311,872   | \$7,000,627               | (\$5,897)                    | \$9,666   | \$3,769                   | \$7,004,396          |
| Steelhead - Middle Columbia River DPS (threatened)     | \$28,927,007                    | \$11,873,577  | \$40,800,584              | \$275,273                    | \$41,902  | \$317,175                 | \$41,117,760         |
| Steelhead - Snake River DPS (threatened)               | \$20,593,565                    | \$5,406,644   | \$26,000,209              | (\$23,958)                   | (\$1,924)   | (\$25,882)                | \$25,974,327         |
| Steelhead - Upper Columbia River DPS (endangered)      | \$10,805,251                    | \$3,857,182   | \$14,662,433              | \$67,018                     | \$47,382  | \$114,400                 | \$14,776,833         |
| Steelhead - Upper Willamette River DPS (threatened)    | \$3,459,146                     | \$1,096,125   | \$4,555,271               | \$0                          | \$0   | \$0                       | \$4,555,271          |
| Chub, Oregon (endangered)                              | \$19,163                        | \$589,049   | \$608,212                 | \$0                          | \$0   | \$0                       | \$608,212            |
| Cutthroat Trout, Lahontan (threatened)                 | \$820,044                       | \$1,050,719   | \$1,870,763               | \$0                          | \$0   | \$0                       | \$1,870,763          |
| Sturgeon, White - Kootenai River DPS (endangered)      | \$11,792,123                    | \$2,498,314   | \$14,290,437              | \$32,432                     | \$0   | \$32,432                  | \$14,322,869         |
| Trout, Bull (threatened)                               | \$9,730,379                     | \$6,049,477   | \$15,779,856              | \$2,091,038                  | \$27,926  | \$2,118,964               | \$17,898,820         |
| <b>TOTAL</b>   | <b>\$157,256,114</b>            | <b>\$52,507,617</b>                                 | <b>\$209,763,730</b>      | <b>\$2,227,677</b>           | <b>\$960,447</b>                                    | <b>\$3,188,123</b>        | <b>\$212,951,854</b> |

**Notes:**

- 1) Direct spending can be tracked back to a work element where the contractor explicitly identified the "Primary Focal Species" benefiting from the work.
- 2) Contract Administration spending can be tracked back to a work element that did not require the contractor to identify the "Primary Focal Species" benefiting from the work.
- 3) Negative values for Capital Spending are a result of over-accruing costs in the previous year.

| Direct Program Expenditures on ESA-Listed Fish, 2015 <sup>4</sup>   |                           |  |                        |                           |  |                        |                      |
|---|---------------------------|--|------------------------|---------------------------|--|------------------------|----------------------|
| ESA Listed Focal Species Name   | Expense "Direct" Spending | Expense "Contract Administration" Spending | Expense Total Spending | Capital "Direct" Spending | Capital "Contract Administration" Spending | Capital Total Spending | Total Spending       |
| Chinook - Lower Columbia River ESU (threatened)   | \$4,776,975               | \$1,548,012                                | \$6,324,987            | \$783,890                 | \$10,592                                   | \$794,482              | \$7,119,469          |
| Chinook - Snake River Fall ESU (threatened)   | \$8,700,614               | \$3,855,988                                | \$12,556,602           | \$0                       | \$0  | \$0                    | \$12,556,602         |
| Chinook - Snake River Spring/Summer ESU (threatened)  | \$27,831,444              | \$4,202,595                                | \$34,034,239           | \$327,691                 | \$21,926                                   | \$349,516              | \$34,383,755         |
| Chinook - Upper Columbia River Spring ESU (endangered)  | \$10,954,241              | \$4,412,804                                | \$15,367,045           | \$47,445                  | \$70,509                                   | \$117,954              | \$15,484,999         |
| Chinook - Upper Willamette River ESU (threatened)   | \$3,267,552               | \$1,372,236                                | \$4,639,788            | \$1,659,393               | \$4,299,630                                | \$5,959,223            | \$10,599,011         |
| Chum - Columbia River ESU (threatened)  | \$2,061,771               | \$401,800                                  | \$2,463,571            | \$0                       | \$0  | \$0                    | \$2,463,571          |
| Coho - Lower Columbia River ESU (threatened)  | \$2,476,606               | \$729,018                                  | \$3,205,624            | \$63,550                  | \$7,153                                    | \$70,703               | \$3,276,327          |
| Snakeye - Snake River FSI (endangered)  | \$5,995,584               | \$1,166,638                                | \$7,162,222            | \$169                     | \$13                                       | \$182                  | \$7,162,404          |
| Steelhead - Lower Columbia River DPS (threatened)   | \$4,218,534               | \$1,293,878                                | \$5,512,412            | \$274,494                 | \$11,748                                   | \$286,242              | \$5,798,654          |
| Steelhead - Middle Columbia River DPS (threatened)  | \$26,171,323              | \$10,949,232                               | \$37,120,555           | \$4,310,722               | \$1,183,739                                | \$5,494,461            | \$42,615,016         |
| Steelhead - Snake River DPS (threatened)  | \$19,393,530              | \$5,166,180                                | \$24,559,710           | \$558,207                 | \$21,926                                   | \$580,132              | \$25,139,842         |
| Steelhead - Upper Columbia River DPS (endangered)   | \$11,562,904              | \$3,806,971                                | \$15,369,875           | \$179,388                 | \$70,368                                   | \$249,756              | \$15,619,631         |
| Steelhead - Upper Willamette River DPS (threatened)   | \$2,045,507               | \$1,015,737                                | \$3,061,244            | \$1,659,601               | \$4,299,630                                | \$5,959,231            | \$9,020,525          |
| Chub - Oregon (endangered)  | \$41,737                  | \$231,220                                  | \$272,957              | \$0                       | \$0  | \$0                    | \$272,957            |
| Cutthroat Trout - Lakonan (threatened)  | \$760,214                 | \$706,565                                  | \$1,466,779            | \$0                       | \$0  | \$0                    | \$1,466,779          |
| Sturgeon - White - Kootenai River DPS (endangered)  | \$7,237,822               | \$2,203,632                                | \$9,441,454            | \$1,052,020               | \$24                                       | \$1,052,044            | \$10,493,498         |
| Trout, Bull (threatened)  | \$8,222,868               | \$5,521,878                                | \$13,744,746           | \$1,554,393               | \$74,762                                   | \$1,629,155            | \$15,373,901         |
| <b>TOTAL</b>  | <b>\$145,719,224</b>      | <b>\$50,844,922</b>                        | <b>\$196,564,146</b>   | <b>\$12,451,386</b>       | <b>\$10,072,241</b>                        | <b>\$22,523,627</b>    | <b>\$219,087,773</b> |
| <b>Notes:</b>   |                           |  |                        |                           |  |                        |                      |
| 1) Direct spending can be tracked back to a work element where the contractor explicitly identified the "Primary Focal Species" benefiting from the work.                       |                           |  |                        |                           |  |                        |                      |
| 2) Contract Administration spending can be tracked back to a work element that did not require the contractor to identify the "Primary Focal Species" benefiting from the work. |                           |  |                        |                           |  |                        |                      |
| 3) Negative values for Capital Spending are a result of over-accruing costs in the previous year.   |                           |  |                        |                           |  |                        |                      |
| 4) Revised on March 9, 2017.  |                           |  |                        |                           |  |                        |                      |

**Direct Program Expenditures by Fund, FY2016**

| <b>FUND</b>                | <b>2010</b>           | <b>2011</b>           | <b>2012</b>           | <b>2013</b>           | <b>2014</b>           | <b>2015<sup>3</sup></b> | <b>2016</b>           |
|----------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-------------------------|-----------------------|
| Total BiOp (non-Accord)    | \$ 88,120,408         | \$ 105,257,648        | \$ 109,818,406        | \$102,742,463         | \$93,422,644          | \$102,350,719           | \$104,327,575         |
| Total Accords <sup>1</sup> |                       |                       |                       |                       |                       |                         |                       |
| Total Accords - BiOp       | \$ 64,187,623         | \$ 79,829,739         | \$ 76,351,240         | \$75,238,565          | \$53,057,117          | \$78,332,689            | \$56,949,841          |
| Total Accords - Non-BiOp   | \$ 20,983,783         | \$ 37,606,835         | \$ 45,782,424         | \$48,583,014          | \$50,913,614          | \$36,986,094            | \$48,852,498          |
| Total General              | \$ 51,765,457         | \$ 73,608,793         | \$ 58,956,587         | \$48,813,941          | \$54,828,830          | \$44,748,863            | \$46,978,409          |
| Total BPA Overhead         | \$ 14,530,682         | \$ 14,911,880         | \$ 15,501,115         | \$15,723,909          | \$16,911,905          | \$17,132,184            | \$17,063,853          |
| <b>TOTAL PROGRAM</b>       | <b>\$ 239,587,953</b> | <b>\$ 311,214,895</b> | <b>\$ 306,409,772</b> | <b>\$ 291,101,892</b> | <b>\$ 269,134,110</b> | <b>\$ 279,550,549</b>   | <b>\$ 274,172,174</b> |

**Notes:**

1) BiOp tracking at fund level began in 2009, Accords began in 2008.

2) Spending is estimated based on the % of funding towards a project. For example, if a project budget is 70% BiOp and 30% General, the project expenditures will be prorated 70% towards BiOp and 30% General.

3) FY2015 revised as of March 9, 2017.

**Direct Program Expenditures by Category, FY2016**

| Category                                 | 2010                 | 2011                 | 2012                 | 2013                 | 2014                 | 2015 <sup>4</sup>    | 2016                 |
|--|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Coordination (Local/Regional)            | \$22,462,594         | \$25,185,796         | \$28,135,259         | \$30,074,160         | \$13,294,305         | \$13,500,245         | \$13,778,450         |
| Coordination (BPA Overhead) <sup>3</sup> |                      |                      |                      |                      | \$14,616,142         | \$14,404,354         | \$15,213,335         |
| Data Management                          | \$4,199,379          | \$4,319,007          | \$4,130,748          | \$3,980,351          | \$4,244,807          | \$4,077,674          | \$4,221,434          |
| Habitat (Restoration/Protection)         | \$80,386,909         | \$123,373,947        | \$122,609,228        | \$118,831,309        | \$102,422,790        | \$124,435,135        | \$117,933,009        |
| Harvest Augmentation                     | \$3,241,566          | \$3,599,302          | \$4,429,624          | \$4,077,995          | \$4,062,872          | \$4,248,774          | \$4,206,148          |
| Production (Supplementation)             | \$45,271,831         | \$61,846,889         | \$53,165,835         | \$50,024,766         | \$45,146,279         | \$32,202,008         | \$31,490,426         |
| Law Enforcement                          | \$656,356            | \$805,250            | \$853,122            | \$750,780            | \$883,679            | \$865,990            | \$800,717            |
| Predator Removal                         | \$3,549,112          | \$2,983,190          | \$3,558,732          | \$3,309,064          | \$3,879,435          | \$3,614,166          | \$4,251,762          |
| Research, Monitoring and Evaluation      | \$79,820,206         | \$89,101,514         | \$89,527,224         | \$80,053,469         | \$80,583,801         | \$82,202,203         | \$82,276,893         |
| <b>Total</b>                             | <b>\$239,587,953</b> | <b>\$311,214,895</b> | <b>\$306,409,772</b> | <b>\$291,101,892</b> | <b>\$269,134,110</b> | <b>\$279,550,549</b> | <b>\$274,172,174</b> |

Notes:

- 1) BPA's database identifies projects by their "Purpose" (general goal) and "Emphasis" (primary type of work, e.g., habitat restoration.) BPA does not track its project management overhead against individual projects or contracts, so there is no easy or accurate way to allocate BPA overhead to specific purposes or emphases. Thus, in the above report, BPA includes its staffing to manage the 600-plus contracts in its fish and wildlife program in the category identified as Coordination (BPA Overhead), and its direct technical services contracts for Data Management and RM&E in those respective categories.
- 2) Estimated spending is based at the project level. Therefore if a project is assigned an emphasis of Habitat, but also does RME, all expenditures for the project are included under Habitat.
- 3) Starting in Fiscal Year 2015 (and revised for FY2014), Costs by Category will now separate Coordination costs between Regional/Local Coordination and BPA Overhead.
- 4) FY2015 - Revised as of March 9, 2017.

| <b>Direct Program Expenditures for Research, Monitoring and Evaluation (RM&amp;E), FY2016</b>   |                     |
|---|---------------------|
| Artificial Production   | \$24,391,057        |
| Habitat   | \$13,332,983        |
| Harvest   | \$1,216,118         |
| Hydrosystem   | \$7,908,829         |
| Predation   | \$1,264,152         |
| Programmatic  | \$34,163,754        |
|   | <b>\$82,276,893</b> |
| <b>Notes:</b>   |                     |
| 1) Estimated spending is based at the project level. Therefore if a project is labeled Artificial Production, but also supports Habitat, the expenditures are counted as Artificial Production. |                     |

| Direct Program Expenditures by Province, FY2016   |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
|---|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Province  | 2007                 | 2008                 | 2009                 | 2010                 | 2011                 | 2012                 | 2013                 | 2014                 | 2015 <sup>4</sup>    | 2016                 |
| BLUE MOUNTAIN   | \$9,489,802          | \$9,336,015          | \$10,063,271         | \$12,243,309         | \$13,045,831         | \$13,498,753         | \$13,359,734         | \$14,630,130         | \$16,928,838         | \$17,902,245         |
| COLUMBIA CASCADE  | \$7,340,355          | \$9,192,920          | \$18,334,391         | \$26,543,346         | \$52,343,560         | \$51,216,105         | \$36,245,776         | \$26,801,554         | \$28,292,737         | \$27,092,252         |
| COLUMBIA GORGE  | \$4,993,260          | \$8,354,049          | \$13,046,970         | \$16,165,914         | \$19,962,308         | \$13,560,427         | \$14,326,142         | \$10,014,903         | \$11,744,583         | \$9,718,141          |
| COLUMBIA FLATLAW  | \$28,768,912         | \$37,188,905         | \$42,066,871         | \$50,405,309         | \$59,165,613         | \$61,637,074         | \$61,223,676         | \$57,654,085         | \$67,777,655         | \$61,768,581         |
| COLUMBIA ESTUARY  | \$5,229,672          | \$6,075,054          | \$8,056,193          | \$6,848,834          | \$9,469,437          | \$11,109,892         | \$15,336,657         | \$10,819,987         | \$11,165,031         | \$11,335,523         |
| INTRMOUNTAIN  | \$25,281,129         | \$14,497,055         | \$12,350,282         | \$15,702,284         | \$17,198,718         | \$19,784,368         | \$16,144,888         | \$17,769,309         | \$17,220,238         | \$18,009,485         |
| LOWER COLUMBIA  | \$13,533,874         | \$14,744,699         | \$11,181,219         | \$15,259,843         | \$41,609,286         | \$33,899,854         | \$44,562,896         | \$13,867,496         | \$39,453,337         | \$40,899,830         |
| MIDDLE SNAKE  | \$1,782,913          | \$6,659,039          | \$3,299,192          | \$5,224,071          | \$4,433,754          | \$13,235,463         | \$3,315,759          | \$3,817,058          | \$4,600,725          | \$4,492,670          |
| MOUNTAIN COLUMBIA   | \$9,497,889          | \$11,347,198         | \$21,341,820         | \$11,427,897         | \$24,894,377         | \$22,160,067         | \$20,849,803         | \$29,293,225         | \$19,225,549         | \$21,255,931         |
| MOUNTAIN SNAKE  | \$16,791,815         | \$19,398,012         | \$21,934,884         | \$22,917,641         | \$28,149,960         | \$30,311,321         | \$28,453,559         | \$28,224,756         | \$40,285,556         | \$29,086,789         |
| UPPER SNAKE   | \$701,439            | \$1,184,634          | \$1,466,476          | \$7,248,075          | \$4,904,675          | \$13,213,441         | \$10,805,582         | \$19,886,298         | \$3,761,184          | \$5,063,744          |
| OTIHER <sup>2</sup>   |                      | \$6,167,509          | \$7,274,724          | \$6,826,368          | \$7,722,192          | \$6,872,463          | \$4,578,007          | \$4,892,097          | \$5,062,472          | \$6,855,562          |
| PROGRAM SUPPORT/ADMIN/ OVERHEAD <sup>3</sup>  | \$11,230,086         | \$30,267,918         | \$34,215,512         | \$42,775,062         | \$28,315,184         | \$15,910,542         | \$21,899,413         | \$31,463,212         | \$14,032,643         | \$20,691,420         |
| <b>Total</b>  | <b>\$134,641,146</b> | <b>\$174,413,007</b> | <b>\$205,271,805</b> | <b>\$239,587,953</b> | <b>\$311,214,895</b> | <b>\$306,409,772</b> | <b>\$291,101,892</b> | <b>\$269,134,110</b> | <b>\$279,550,549</b> | <b>\$274,172,174</b> |
| <b>Notes:</b>   |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| 1) Starting in 2008, spending by province is tracked in Pisces based on where the contractor explicitly identified work location.   |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| 2) Other includes "Undetermined" locations such as Ocean, Canada; and provinces not recognized by NPCC.   |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| 3) Program Support/Admin includes spending that cannot be traced back to a contract that has at least one work element requiring location; contracts without any work elements at all; program level spending not mapped to a specific project; and BPA Overhead. |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| 4) FY15 revised as of March 9, 2017.  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |

**Direct Program Expenditures by State, FY2016***Compiles program spending by Work Element location*

| STATE   | 2011                 | 2012                 | 2013                 | 2014                 | 2015 <sup>3</sup>    | 2016                 |
|---|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Washington  | \$121,317,884        | \$115,404,913        | \$95,365,193         | \$86,071,758         | \$90,272,232         | \$89,290,956         |
| Idaho   | \$50,870,890         | \$73,383,217         | \$61,857,476         | \$78,704,753         | \$68,248,817         | \$60,368,287         |
| Oregon  | \$86,884,304         | \$85,320,690         | \$101,607,686        | \$61,266,093         | \$97,958,650         | \$93,022,212         |
| Ocean   | \$3,598,371          | \$2,367,853          | \$589,410            | \$989,723            | \$938,156            | \$1,085,664          |
| Montana   | \$17,984,028         | \$11,143,660         | \$7,215,356          | \$8,285,323          | \$5,345,069          | \$7,243,973          |
| British Columbia                                  | \$1,610,361          | \$1,983,288          | \$2,042,752          | \$1,859,249          | \$1,991,758          | \$1,827,278          |
| Nevada  | \$622,594            | \$883,615            | \$524,606            | \$494,000            | \$763,225            | \$642,383            |
| Program Support/Admin/Overhead/Other <sup>2</sup> | \$28,326,464         | \$15,922,536         | \$21,899,413         | \$31,463,211         | \$14,032,643         | \$20,691,420         |
|   | <u>\$311,214,895</u> | <u>\$306,409,772</u> | <u>\$291,101,892</u> | <u>\$269,134,110</u> | <u>\$279,550,549</u> | <u>\$274,172,174</u> |

**Notes:**

1) Starting in 2008, spending by state is tracked in Pisces based on where the contractor explicitly identified work location.

2) Program Support/Admin/Other includes spending that cannot be traced back to a contract that has at least one work element requiring location; contracts without any work elements; program level spending not mapped to a specific project or NPCC province; and BPA Overhead.

3) FY2015 revised as of March 9, 2017.

| Direct Program Expenditures by Contractor Type, FY2016 |  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
|--|--|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|  | Contractor Type  | 2007                 | 2008                 | 2009                 | 2010                 | 2011                 | 2012                 | 2013                 | 2014                 | 2015 <sup>3</sup>    | 2016                 |
| <b>FEDERAL</b>   | NATIONAL MARINE FISHERIES (NOAA)   | \$9,179,793          | \$7,980,293          | \$8,959,831          | \$6,214,596          | \$10,011,124         | \$10,226,672         | \$7,294,105          | \$6,823,153          | \$7,849,433          | \$6,916,950          |
|  | BPA OVERHEAD (& NON-CONTRACTED PROJECT COSTS)  | \$11,152,430         | \$7,742,161          | \$15,428,883         | \$16,866,192         | \$16,437,276         | \$15,281,324         | \$16,789,765         | \$18,302,894         | \$16,642,085         | \$20,288,062         |
|  | US FISH & WILDLIFE SERVICE (USFWS)   | \$2,880,400          | \$3,150,827          | \$3,079,231          | \$2,640,768          | \$2,842,702          | \$2,472,046          | \$2,845,424          | \$3,425,748          | \$2,718,120          | \$3,027,580          |
|  | US BUREAU OF RECLAMATION (BOR)   | \$279,721            | \$152,309            | \$202,092            | \$160,104            | \$160,153            | \$237,484            | \$181,862            | \$321,773            | \$714,663            | \$263,562            |
|  | US ARMY CORP OF ENGINEERS (COE)  | \$1,519,667          | \$20,924             | \$235,612            | \$205,064            | \$338,323            | \$308,214            | \$404,602            | \$171,313            | \$309,499            | \$1,278,361          |
|  | PACIFIC NW NATIONAL LABORATORY/DEPT. OF ENERGY   | \$1,165,186          | \$1,605,398          | \$1,769,676          | \$1,476,028          | \$750,143            | \$573,645            | \$381,427            | \$379,050            | \$625,656            | \$793,662            |
|  | US FOREST SERVICE (USFS)   | \$728,324            | \$1,410,740          | \$3,668,543          | \$1,649,120          | \$1,124,508          | \$651,567            | \$819,258            | \$813,992            | \$309,565            | \$942,585            |
|  | CIHRK  | \$403,411            | \$454,711            | \$434,000            | \$444,850            | \$904,925            |                      | \$178,002            | \$50,000             |                      | \$50,000             |
|  | US GEOLOGICAL SURVEY (USGS)  | \$1,256,474          | \$1,722,389          | \$1,835,708          | \$1,760,653          | \$2,385,971          | \$3,135,564          | \$2,209,567          | \$1,704,163          | \$1,705,066          | \$1,809,300          |
| <b>FEDERAL TOTAL</b>                                   |  | <b>\$28,646,404</b>  | <b>\$24,269,762</b>  | <b>\$36,613,676</b>  | <b>\$36,467,376</b>  | <b>\$34,976,327</b>  | <b>\$33,136,616</b>  | <b>\$31,304,010</b>  | <b>\$31,983,084</b>  | <b>\$32,944,086</b>  | <b>\$35,340,042</b>  |
| <b>STATE</b>   | OREGON DEPARTMENT OF FISH & WILDLIFE   | \$11,114,130         | \$10,237,010         | \$10,170,389         | \$13,269,950         | \$10,238,326         | \$15,605,509         | \$13,248,075         | \$14,244,566         | \$14,416,087         | \$15,246,156         |
|  | OREGON WATERSHED ENHANCEMENT BOARD   |                      |                      |                      |                      |                      | \$59,516             | \$76,367             | \$112,611            | \$68,523             | \$55,535             |
|  | <b>OREGON Subtotal</b>   | <b>\$11,114,130</b>  | <b>\$10,237,010</b>  | <b>\$10,170,389</b>  | <b>\$13,269,950</b>  | <b>\$10,238,326</b>  | <b>\$15,665,025</b>  | <b>\$13,324,441</b>  | <b>\$14,357,177</b>  | <b>\$14,504,610</b>  | <b>\$15,301,691</b>  |
|  | IDAHO DEPARTMENT OF FISH & WILDLIFE  | \$7,139,047          | \$11,077,547         | \$8,429,207          | \$5,174,578          | \$10,847,630         | \$17,836,561         | \$18,281,036         | \$13,726,899         | \$15,455,054         | \$11,875,775         |
|  | IDAHO SOIL & WATER CONSERVATION COMMISSION   | \$91,398             | \$84,922             | \$91,275             | \$66,967             |                      |                      |                      |                      |                      |                      |
|  | IDAHO STATE OFFICE OF SPECIES CONSERVATION   | \$199,247            | \$199,247            | \$923,272            | \$1,367,773          | \$2,551,333          | \$2,487,433          | \$2,905,500          | \$1,348,456          | \$2,742,180          | \$3,352,210          |
|  | <b>IDAHO Subtotal</b>  | <b>\$7,230,445</b>   | <b>\$11,356,746</b>  | <b>\$9,443,754</b>   | <b>\$10,639,318</b>  | <b>\$13,399,163</b>  | <b>\$20,323,994</b>  | <b>\$21,186,535</b>  | <b>\$15,095,266</b>  | <b>\$18,197,234</b>  | <b>\$15,227,985</b>  |
|  | WASHINGTON DEPARTMENT OF FISH & WILDLIFE   | \$6,415,256          | \$5,912,604          | \$6,134,350          | \$7,712,743          | \$9,148,722          | \$11,855,753         | \$10,691,474         | \$12,144,790         | \$11,894,739         | \$12,793,663         |
|  | WASHINGTON DEPARTMENT OF ECOLOGY   | \$90,223             | \$211,309            | \$150,324            | \$181,562            | \$43,689             |                      |                      |                      |                      |                      |
|  | <b>WASHINGTON Subtotal</b>   | <b>\$6,705,479</b>   | <b>\$6,123,913</b>   | <b>\$6,284,673</b>   | <b>\$7,894,305</b>   | <b>\$9,192,411</b>   | <b>\$11,855,753</b>  | <b>\$10,691,474</b>  | <b>\$12,144,790</b>  | <b>\$11,894,739</b>  | <b>\$12,793,663</b>  |
|  | MONTANA FISH, WILDLIFE AND PARKS (MFWP)  | \$2,234,653          | \$2,742,721          | \$2,829,533          | \$2,913,118          | \$2,414,914          | \$2,382,531          | \$2,777,167          | \$3,063,650          | \$3,051,537          | \$3,810,995          |
|  | <b>MONTANA Subtotal</b>  | <b>\$2,234,653</b>   | <b>\$2,742,721</b>   | <b>\$2,829,533</b>   | <b>\$2,913,118</b>   | <b>\$2,414,914</b>   | <b>\$2,382,531</b>   | <b>\$2,777,167</b>   | <b>\$3,063,650</b>   | <b>\$3,051,537</b>   | <b>\$3,810,995</b>   |
| <b>STATE TOTAL</b>                                     |  | <b>\$27,284,708</b>  | <b>\$30,480,390</b>  | <b>\$28,728,349</b>  | <b>\$34,716,691</b>  | <b>\$35,244,814</b>  | <b>\$50,427,303</b>  | <b>\$47,979,618</b>  | <b>\$44,680,903</b>  | <b>\$47,648,120</b>  | <b>\$47,134,334</b>  |
| <b>TRIBE</b>   | BURNS PAIUTE TRIBE   | \$733,424            | \$687,603            | \$636,144            | \$716,460            | \$658,775            | \$831,697            | \$610,972            | \$761,026            | \$1,081,655          | \$797,849            |
|  | COEUR D'ALENE TRIBE OF IDAHO   | \$2,148,587          | \$2,537,247          | \$2,552,550          | \$2,444,908          | \$2,340,704          | \$2,668,551          | \$2,714,055          | \$2,666,196          | \$2,666,196          | \$2,722,811          |
|  | COLUMBIA RIVER INTERTRIBAL FISH COMMISSION   | \$1,005,653          | \$1,776,526          | \$4,329,842          | \$4,034,143          | \$7,660,904          | \$8,747,388          | \$7,939,587          | \$8,503,076          | \$5,041,926          | \$9,140,737          |
|  | COLVILLE CONFEDERATED TRIBES   | \$6,570,667          | \$4,519,814          | \$10,594,008         | \$10,278,445         | \$16,189,398         | \$21,993,516         | \$16,872,698         | \$15,116,519         | \$14,293,924         | \$15,137,000         |
|  | CONFEDERATED TRIBES OF GRAND RONDE   |                      |                      |                      | \$93,475             | \$124,703            | \$158,296            | \$110,571            | \$140,398            | \$134,869            | \$163,102            |
|  | CONFEDERATED TRIBES OF SILT/INDIANS  |                      |                      |                      |                      |                      | \$60,134             | \$52,700             | \$140,869            | \$124,210            |                      |
|  | CONFEDERATED TRIBES OF WARM SPRINGS  | \$5,441,199          | \$3,373,196          | \$6,142,650          | \$6,078,270          | \$6,859,314          | \$7,223,659          | \$11,203,330         | \$5,691,055          | \$12,065,436         | \$6,615,140          |
|  | COWILTZ INDIAN TRIBE   |                      |                      |                      | \$34,325             |                      | \$118,229            | \$364,937            | \$453,801            | \$633,055            | \$661,308            |
|  | FORT McDERMOTT TRIBE   |                      |                      |                      |                      |                      |                      |                      |                      | \$4,650              |                      |
|  | KALISPEL TRIBE OF INDIANS  | \$1,752,834          | \$1,633,522          | \$1,790,852          | \$1,928,048          | \$2,066,331          | \$2,575,344          | \$2,709,448          | \$2,962,457          | \$3,133,722          | \$3,359,054          |
|  | KOOTENAI TRIBE   | \$5,491,017          | \$7,402,457          | \$6,541,035          | \$6,938,439          | \$8,537,716          | \$12,321,474         | \$15,094,788         | \$21,941,731         | \$11,586,884         | \$15,188,307         |
|  | NEZ PERCE TRIBE  | \$11,559,023         | \$11,552,934         | \$12,037,027         | \$12,644,313         | \$15,349,520         | \$16,673,605         | \$15,800,876         | \$15,294,865         | \$16,713,068         | \$16,526,287         |
|  | SALISH AND KOOTENAI TRIBES CONFEDERATED TRIBES   | \$39,627             | \$1,176,490          | \$483,878            | \$560,467            | \$430,107            | \$453,175            | \$755,839            | \$664,292            | \$684,144            | \$632,232            |
|  | SHOSHONE-BANNOCK TRIBES  | \$1,114,874          | \$1,749,602          | \$1,579,829          | \$2,438,482          | \$2,830,660          | \$2,637,601          | \$4,009,231          | \$3,551,518          | \$5,477,187          | \$3,422,313          |
|  | SHOSHONE-PAIUTE TRIBES   | \$742,121            | \$684,324            | \$790,837            | \$749,767            | \$841,382            | \$1,147,875          | \$694,692            | \$626,509            | \$1,086,910          | \$936,944            |
|  | SPOKANE TRIBE OF INDIANS   | \$2,420,623          | \$2,726,944          | \$2,744,981          | \$2,761,856          | \$2,803,647          | \$2,932,796          | \$2,709,870          | \$3,314,939          | \$2,989,703          | \$3,403,933          |
|  | UMATILLA CONFEDERATED TRIBES   | \$5,421,899          | \$6,156,492          | \$6,593,550          | \$6,861,442          | \$11,365,123         | \$9,951,477          | \$12,122,357         | \$12,088,402         | \$11,248,947         | \$10,584,971         |
|  | UPPER COLUMBIA UNITED TRIBES (UCUT)  |                      | \$162,707            | \$251,327            | \$516,803            | \$427,731            | \$403,540            | \$389,914            | \$448,433            | \$542,525            | \$466,896            |
|  | UPPER SNAKE RIVER TRIBES FOUNDATION  | \$20,776             | \$145,822            | \$151,067            | \$151,067            | \$148,610            | \$162,735            | \$206,529            | \$340,150            | \$393,095            | \$381,505            |
|  | YAKAMA CONFEDERATED TRIBES   | \$10,574,057         | \$10,792,537         | \$17,438,231         | \$24,319,364         | \$32,944,242         | \$25,613,516         | \$25,447,029         | \$23,930,424         | \$27,481,991         | \$27,344,154         |
| <b>TRIBE TOTAL</b>                                     |  | <b>\$66,816,607</b>  | <b>\$66,956,171</b>  | <b>\$74,662,643</b>  | <b>\$87,535,549</b>  | <b>\$111,613,192</b> | <b>\$116,414,475</b> | <b>\$119,824,866</b> | <b>\$118,639,461</b> | <b>\$119,416,105</b> | <b>\$117,613,403</b> |
| <b>INTERSTATE COMPACT</b>                              | PACIFIC STATES MARINE FISHERIES COMMISSION (PSMFC)   | \$13,690,125         | \$13,283,337         | \$14,452,104         | \$13,812,621         | \$13,908,430         | \$14,053,990         | \$12,711,728         | \$13,671,165         | \$13,923,766         | \$13,908,920         |
| <b>UNIVERSITY</b>                                      | UNIVERSITIES   | \$4,252,999          | \$3,461,552          | \$4,355,304          | \$3,939,562          | \$3,662,199          | \$3,384,748          | \$2,800,350          | \$3,123,240          | \$3,143,476          | \$3,036,343          |
| <b>OTHER</b>   | PRIVATE/NON-PROFIT/OTHER   | \$9,329,690          | \$15,999,893         | \$16,476,097         | \$26,542,878         | \$51,870,632         | \$37,603,355         | \$36,314,947         | \$21,464,271         | \$24,048,856         | \$25,183,985         |
|  | LOCAL/SEMI GOVERNMENT  | \$4,257,817          | \$5,626,167          | \$8,355,797          | \$7,141,882          | \$5,933,917          | \$8,235,814          | \$7,854,727          | \$8,969,539          | \$10,995,773         | \$7,743,399          |
|  | COLUMBIA BASIN FISH & WILDLIFE AUTHORITY   | \$3,220,918          | \$2,875,372          | \$2,102,582          | \$2,142,548          | \$1,748,321          | \$1,611,166          | \$1,231,260          | \$544,684            | \$53,710             |                      |
|  | LAND ACQUISITIONS <sup>2</sup>   | \$1,606,994          | \$1,693,766          | \$2,741,905          | \$52,203,712         | \$38,048,400         | \$23,741,722         | \$20,104,220         | \$22,112,085         | \$18,204,478         |                      |
|  | UTILITY  | \$1,207,766          | \$897,497            | \$36,104             | \$44,731             | \$935,038            | \$1,802,447          | \$1,810,123          | \$1,862,082          | \$2,058,245          | \$1,214,990          |
|  | NATIONAL FISH & WILDLIFE FOUNDATION  | \$3,613,020          | \$3,964,062          | \$3,561,562          | \$5,471,611          | \$4,778,134          | \$4,633,194          | \$5,320,550          | \$4,191,459          | \$5,140,096          | \$4,792,200          |
|  | CHIEF JOSEPH HATCHERY COST SHARE (GRANT PUD)   |                      |                      |                      |                      | -\$5,658,821         | -\$3,141,637         |                      |                      | -\$1,875,149         |                      |
| <b>OTHER TOTAL</b>                                     |  | <b>\$21,429,211</b>  | <b>\$45,971,805</b>  | <b>\$47,467,909</b>  | <b>\$64,125,555</b>  | <b>\$111,810,933</b> | <b>\$68,992,739</b>  | <b>\$76,481,330</b>  | <b>\$57,136,255</b>  | <b>\$62,454,997</b>  | <b>\$57,139,111</b>  |
| <b>GRAND TOTAL</b>                                     |  | <b>\$151,238,055</b> | <b>\$174,413,007</b> | <b>\$205,271,805</b> | <b>\$239,587,953</b> | <b>\$311,214,895</b> | <b>\$306,409,772</b> | <b>\$291,101,892</b> | <b>\$269,134,110</b> | <b>\$279,550,549</b> | <b>\$274,172,174</b> |
| <b>NOTES:</b>  |  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
|  | 1) Values above include accruals.  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
|  | 2) Starting in FY13, land acquisition values may include stewardship costs for long-term operations and maintenance (O&M). |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
|  | 3) FY2015 reviewed as of March 10, 2017, no changes.   |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |

**Direct Program Expenditures for Land Purchases, FY2016**

| <b>Project Proponent(s)</b>  | <b>2010</b> | <b>2011</b>  | <b>2012</b> | <b>2013</b> | <b>2014</b>  | <b>2015<sup>3</sup></b> | <b>2016</b>  |
|--|-------------|--------------|-------------|-------------|--------------|-------------------------|--------------|
| Blue Mountain Land Trust   |             |              |             |             |              | \$562,383               |              |
| City of Eugene   |             |              | \$1,075,000 |             |              |                         |              |
| City of Salem  |             |              |             | \$1,212,330 |              |                         |              |
| Coeur D'Alene Tribe, Idaho Department of Fish and Game, Kalispel Tribe, Kootenai Tribe | \$2,286,471 | \$1,750,665  | \$1,675,162 | \$348,570   |              |                         | \$85,217     |
| Columbia Land Trust  |             |              | \$5,306,043 | \$1,711,235 | \$693,096    | \$2,051,603             | \$40,308     |
| Colville Confederated Tribes   | \$3,441,315 | \$720,811    | \$1,743,906 | \$1,611,630 | \$283,048    |                         |              |
| Confederated Tribes of the Grande Ronde  |             |              | \$54,305    | \$3,596,391 | \$12,500     | \$1,741,197             |              |
| Confederated Tribes of the Warm Springs  |             |              |             |             |              | \$3,632,833             |              |
| Ducks Unlimited  |             |              |             | \$520,081   |              |                         |              |
| Friends of Buford Park   |             |              |             |             |              | \$423,162               |              |
| Greenbelt Land Trust   |             |              | \$772,500   | \$1,500,000 | \$244,082    | \$947,500               |              |
| Idaho Department of Fish and Game (IDFG)   | \$4,750,821 |              | \$5,059,268 |             | \$14,000,000 |                         | \$1,877,581  |
| Idaho Office of Species Conservation   | \$3,426,523 |              |             |             |              | \$7,980,000             | \$680,000    |
| Kittitas Conservation Trust  |             |              |             |             |              |                         |              |
| Lower Columbia River Estuary Partnership (LCREP)                                       |             |              | \$946,739   |             |              |                         |              |
| McKenzie River Trust   |             |              | \$52,986    |             | \$318,372    |                         |              |
| Methow Salmon Recovery Foundation  |             |              |             |             |              |                         |              |
| Montana Fish, Wildlife and Parks (MFWP)  |             | \$9,750,112  | \$1,349,403 | \$642,763   | \$1,610,425  | \$154,274               |              |
| National Fish and Wildlife Foundation  |             |              |             |             |              |                         |              |
| Nature Conservancy   | \$2,245,363 | \$20,851,010 |             | \$3,412,000 |              | \$2,268,978             |              |
| Nez Perce Tribe  | \$540,992   | \$5,788      | \$820       | \$5,000     | \$5,000      | \$5,729                 | \$5,899      |
| Oregon Department Of Fish and Wildlife (ODFW)  | \$1,330,361 | \$9,716,071  |             | \$4,595,329 |              | \$1,082,452             | \$10,868,814 |
| Oregon Watershed Enhancement Board   | \$779,252   |              |             | \$600,000   |              |                         |              |
| S Central Washington Resource Conservation and Development                             | \$33,800    |              |             |             |              |                         |              |
| Salish and Kootenai Confederated Tribes  | \$1,394,127 | \$4,068,146  | \$6,370,226 | \$1,596,594 | \$2,196,197  | \$490,965               | \$1,815,934  |
| Shoshone-Bannock Tribes  |             | \$1,996,948  | \$3,666,163 |             |              |                         | \$786,320    |

| <b>Project Proponent(s)</b>                       | <b>2010</b>         | <b>2011</b>         | <b>2012</b>         | <b>2013</b>         | <b>2014</b>         | <b>2015<sup>3</sup></b> | <b>2016</b>         |
|---|---------------------|---------------------|---------------------|---------------------|---------------------|-------------------------|---------------------|
| Shoshone-Paiute Tribes                            | \$2,259,937         |                     | \$3,156,008         |                     |                     |                         |                     |
| Umatilla Confederated Tribes (CTUIR)              | \$2,114,907         |                     | \$15,382            |                     |                     | \$771,010               | \$1,783,866         |
| US Fish and Wildlife Service (USFWS)              | \$1,005,967         |                     |                     |                     |                     |                         |                     |
| Washington Department of Fish and Wildlife (WDFW) | \$51                |                     | \$2,365,285         | \$572,469           |                     |                         |                     |
| Willamalane Parks and Recreation District         |                     |                     |                     | \$500,509           | \$741,501           |                         |                     |
| Yakama Confederated Tribes                        | \$1,132,019         | \$3,344,161         | \$4,437,146         | \$333,123           |                     |                         | \$260,540           |
| Yamhill Soil and Water Conservation District      |                     |                     |                     | \$983,699           |                     |                         |                     |
| <b>Grand Total</b>                                | <b>\$26,741,905</b> | <b>\$52,203,712</b> | <b>\$38,046,341</b> | <b>\$23,741,722</b> | <b>\$20,104,220</b> | <b>\$22,112,085</b>     | <b>\$18,204,478</b> |

**Notes:**

- 1) Values above include bank fees, permits, etc.
- 2) Starting in FY13, land acquisition values may include stewardship costs for long-term operations and maintenance (O&M).
- 3) FY2015 - No changes as of March 09, 2017.

| Direct Program Expenditures for Artificial Production, FY2016   |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
|---|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Category  | 2007                | 2008                | 2009                | 2010                | 2011                | 2012                | 2013                | 2014                | 2015 <sup>2</sup>   | 2016                |
| Coordination (local/regional)   | \$641,817           | \$764,148           | -\$3,902            | \$640,554           | \$634,891           | \$664,088           | \$785,309           | \$633,509           | \$618,853           | \$703,886           |
| Harvest Augmentation  | \$3,054,888         | \$3,256,692         | \$3,417,255         | \$3,241,566         | \$3,599,302         | \$4,429,624         | \$4,077,995         | \$4,062,872         | \$4,248,774         | \$4,205,148         |
| RM and E  | \$19,614,600        | \$17,739,370        | \$17,335,470        | \$22,010,040        | \$22,503,163        | \$25,176,505        | \$23,580,530        | \$24,046,106        | \$24,079,654        | \$24,391,057        |
| Supplementation   | \$22,334,339        | \$26,177,769        | \$28,175,648        | \$45,271,831        | \$61,846,889        | \$53,165,835        | \$50,024,766        | \$45,146,279        | \$32,202,008        | \$31,490,426        |
| <b>Total</b>  | <b>\$45,645,724</b> | <b>\$47,937,980</b> | <b>\$48,924,480</b> | <b>\$71,471,991</b> | <b>\$88,714,245</b> | <b>\$83,436,132</b> | <b>\$78,476,600</b> | <b>\$73,888,765</b> | <b>\$61,149,290</b> | <b>\$60,791,517</b> |
| <b>Notes:</b>   |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| 1) Estimated spending is based at the project level. Therefore if a project is assigned an emphasis of Habitat, but also does RME, all expenditures for the project are included under Habitat. |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| 2) FY2015 reviewed on 3/09/2017, no changes.  |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |

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**From:** Read,Christine L (BPA) - EWB-4 <clread@bpa.gov>  
**Sent:** Tuesday, February 12, 2019 5:27 PM  
**To:** John Harrison  
**Cc:** Read,Christine L (BPA) - EWB-4  
**Subject:** 2018 Gov. Report  
**Attachments:** DONE-10-Direct Program Expenditures by Contractor Type.xlsx; DONE-9-Direct Expenditures by Location-State.xlsx; DONE-8-Direct Program Expenditures by Province.xlsx; DONE-6a-Direct Program Expenditures by Category.xlsx; DONE-5-Direct Program Expenditures by Fund.xlsx; DONE-2-Direct Program Expenditures by Species-Exp&Cap.xlsx; DONE-3-Direct Program Expenditures of FCRPS BiOp projects.xlsx; DONE-11-Direct Expenditures for Land Acquisitions.xlsx; DONE-7-Direct Program Expenditures for RME.xlsx; DONE-6b-Direct Program Expenditures Artificial Production by emphasis.xlsx; DONE-4-Direct Program Expenditures on ESA Listed Focal Species.xlsx

Hi John,

I hope you are doing well. I have for you the 2018 tables for the Gov Report.

There is one major change this year that I will try to explain, but I know I need to provide you a more "official" explanation that you can use in the document.

In the past, our F&W program consisted of all the contracts, land purchases, overhead (including staff, travel, G&A, etc). However, starting in FY18, our finance office adjusted the G&A portion and how they charged it to the different organizations (i.e. F&W division). Previously, it was a line item just like my salary, benefits and part of the overall capital/expense spending. Now they removed that payment from the F&W program, BUT they still include it as a fish cost in the 4(h)(10)(C) credit table. So, I was instructed to include it in our external reporting as well. So you will see in some areas that our Overhead decreased, but that G&A was recalculated and moved elsewhere (and costs a lot more based on what I see).

The same is true for the CRSO EIS line item. It is included in the 4(h)(10)(C) credit table, but not part of the F&W program spending.

The tables that show Total Spent will include the G&A/CRSO EIS values. The tables that just show how much was spent on a certain element (just RME for example) do not have those values added. I have an added note for those that it applies; I just don't have the write-up yet.

As for the tables, I just followed the tables used in last year's report. If you need additional tables, let me know!

Thanks, Chris



**Christine Read**

Program Analyst

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| Direct Program Expenditures by Contractor Type, FY2018 |  |  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                     |
|--|--|--|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|---------------------|
| Contractor Type  |  | 2007   | 2008                 | 2009                 | 2010                 | 2011                 | 2012                 | 2013                 | 2014                 | 2015                 | 2016                 | 2017                 | 2018                 |                     |
| FEDERAL  | NATIONAL MARINE FISHERIES (NOAA)               | \$9,179,793  | \$7,980,293          | \$8,959,831          | \$6,214,596          | \$10,011,126         | \$10,226,472         | \$7,294,105          | \$6,823,153          | \$7,869,433          | \$6,916,950          | \$7,239,871          | \$7,262,514          |                     |
|  | EPA OVERHEAD (8. NON-CONTRACTED PROJECT COSTS) | \$11,152,430                                       | \$7,742,161          | \$15,428,883         | \$18,886,192         | \$16,437,274         | \$15,281,324         | \$16,789,765         | \$18,302,894         | \$16,462,085         | \$20,288,062         | \$18,817,914         | \$15,144,232         |                     |
|  | US FISH & WILDLIFE SERVICE (USFWS)             | \$2,880,400  | \$3,150,827          | \$3,079,231          | \$2,640,758          | \$2,842,702          | \$2,472,046          | \$2,845,424          | \$3,425,748          | \$2,718,120          | \$3,027,580          | \$2,289,092          | \$2,636,188          |                     |
|  | US BUREAU OF RECLAMATION (BOR)                 | \$279,721  | \$152,309            | \$202,092            | \$180,104            | \$160,153            | \$237,466            | \$181,862            | \$312,773            | \$71,643             | \$263,562            | \$272,941            | \$255,221            |                     |
|  | US ARMY CORP OF ENGINEERS (COE)                | \$1,519,667  | \$20,924             | \$255,612            | \$205,054            | \$358,523            | \$358,214            | \$504,601            | \$171,313            | \$509,499            | \$1,278,361          | \$272,192            | \$116,413            |                     |
|  | PACIFIC NW NATIONAL LABORATORY/DEPT. OF ENERGY | \$1,165,186  | \$1,685,398          | \$1,749,474          | \$1,474,028          | \$750,143            | \$573,445            | \$381,427            | \$379,050            | \$425,454            | \$793,442            | \$392,411            | \$736,525            |                     |
|  | US FOREST SERVICE (USFS)                       | \$728,324  | \$1,410,740          | \$3,668,543          | \$1,649,120          | \$1,124,508          | \$851,547            | \$819,238            | \$813,992            | \$309,265            | \$962,385            | \$814,089            | \$915,292            |                     |
|  | OTHER  | \$403,411  | \$454,711            | \$434,000            | \$444,850            | \$444,850            | \$904,925            | \$178,002            | \$50,000             | \$50,000             | \$50,000             | \$50,000             | \$50,000             |                     |
|  | US GEOLOGICAL SURVEY (USGS)                    | \$1,256,474  | \$1,722,389          | \$1,835,708          | \$1,760,653          | \$2,385,971          | \$3,135,964          | \$2,209,567          | \$1,704,163          | \$1,705,066          | \$1,809,300          | \$2,014,356          | \$1,665,717          |                     |
|  | <b>FEDERAL TOTAL</b>                           | <b>\$28,565,404</b>                                | <b>\$24,259,752</b>  | <b>\$35,413,574</b>  | <b>\$35,457,375</b>  | <b>\$34,975,337</b>  | <b>\$33,136,516</b>  | <b>\$31,304,010</b>  | <b>\$31,983,084</b>  | <b>\$32,944,084</b>  | <b>\$35,340,042</b>  | <b>\$32,112,864</b>  | <b>\$28,732,202</b>  |                     |
|  | STATE  | OREGON DEPARTMENT OF FISH & WILDLIFE               | \$11,114,130         | \$10,237,010         | \$10,170,389         | \$15,269,950         | \$10,238,326         | \$15,805,509         | \$13,248,075         | \$14,244,566         | \$14,416,087         | \$15,246,156         | \$14,664,699         | \$15,400,007        |
|  |  | OREGON WATERSHED ENHANCEMENT BOARD                 |                      |                      |                      |                      |                      | \$59,516             | \$7,6307             | \$12,611             | \$86,523             | \$55,535             | \$10,413             | \$30,354            |
|  |  | OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY         |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      | \$30,628            |
|  |  | <b>OREGON Subtotal</b>                             | <b>\$11,114,130</b>  | <b>\$10,237,010</b>  | <b>\$10,170,389</b>  | <b>\$15,269,950</b>  | <b>\$10,238,326</b>  | <b>\$15,865,025</b>  | <b>\$13,324,441</b>  | <b>\$14,357,177</b>  | <b>\$14,504,610</b>  | <b>\$15,301,691</b>  | <b>\$14,683,172</b>  | <b>\$15,451,019</b> |
| IDAHO DEPARTMENT OF FISH & WILDLIFE                    |  | \$7,139,047  | \$11,072,547         | \$8,429,207          | \$9,174,578          | \$10,847,630         | \$17,836,561         | \$18,281,036         | \$13,726,829         | \$15,455,054         | \$11,875,775         | \$12,451,687         | \$11,779,934         |                     |
| IDAHO SOI. & WATER CONSERVATION COMMISSION             |  | \$91,398   | \$84,952             | \$91,275             | \$66,957             |                      |                      |                      |                      |                      |                      |                      |                      |                     |
| IDAHO STATE OFFICE OF SPECIES CONSERVATION             |  |  | \$199,247            | \$923,292            | \$1,397,773          | \$2,551,533          | \$2,487,433          | \$2,905,500          | \$1,368,454          | \$2,712,180          | \$3,382,210          | \$4,013,413          | \$1,107,184          |                     |
| <b>IDAHO Subtotal</b>                                  |  | <b>\$7,230,445</b>                                 | <b>\$11,356,746</b>  | <b>\$9,443,754</b>   | <b>\$10,639,318</b>  | <b>\$13,399,163</b>  | <b>\$20,323,994</b>  | <b>\$21,186,533</b>  | <b>\$15,095,286</b>  | <b>\$18,197,234</b>  | <b>\$15,227,985</b>  | <b>\$16,465,100</b>  | <b>\$15,887,118</b>  |                     |
| WASHINGTON DEPARTMENT OF FISH & WILDLIFE               |  | \$6,615,256  | \$5,912,604          | \$6,134,350          | \$7,712,743          | \$9,148,722          | \$11,855,753         | \$10,691,474         | \$12,164,790         | \$11,894,739         | \$12,793,663         | \$10,976,873         | \$11,026,637         |                     |
| WASHINGTON DEPARTMENT OF ECOLOGY                       |  | \$90,223   | \$211,309            | \$150,324            | \$181,552            | \$43,689             |                      |                      |                      |                      |                      |                      |                      |                     |
| <b>WASHINGTON Subtotal</b>                             |  | <b>\$6,705,479</b>                                 | <b>\$6,123,913</b>   | <b>\$6,284,674</b>   | <b>\$7,894,305</b>   | <b>\$9,192,411</b>   | <b>\$11,855,753</b>  | <b>\$10,691,474</b>  | <b>\$12,164,790</b>  | <b>\$11,894,739</b>  | <b>\$12,793,663</b>  | <b>\$10,976,873</b>  | <b>\$11,026,637</b>  |                     |
| MONTANA FISH, WILDLIFE AND PARKS (MFWP)                |  | \$2,234,653  | \$2,762,721          | \$2,829,533          | \$2,913,118          | \$2,414,914          | \$2,382,531          | \$2,777,167          | \$3,063,650          | \$3,051,537          | \$3,810,995          | \$3,076,776          | \$3,185,901          |                     |
| <b>MONTANA Subtotal</b>                                |  | <b>\$2,234,653</b>                                 | <b>\$2,762,721</b>   | <b>\$2,829,533</b>   | <b>\$2,913,118</b>   | <b>\$2,414,914</b>   | <b>\$2,382,531</b>   | <b>\$2,777,167</b>   | <b>\$3,063,650</b>   | <b>\$3,051,537</b>   | <b>\$3,810,995</b>   | <b>\$3,076,776</b>   | <b>\$3,185,901</b>   |                     |
| <b>STATE TOTAL</b>                                     |  | <b>\$27,284,708</b>                                | <b>\$30,480,370</b>  | <b>\$28,726,347</b>  | <b>\$34,716,671</b>  | <b>\$35,244,814</b>  | <b>\$50,427,303</b>  | <b>\$47,977,618</b>  | <b>\$44,480,903</b>  | <b>\$47,134,334</b>  | <b>\$46,486,120</b>  | <b>\$45,201,861</b>  | <b>\$45,550,075</b>  |                     |
| TRIBE  | BURNS PAUTE TRIBE                              | \$733,424  | \$687,603            | \$636,144            | \$716,460            | \$658,775            | \$931,497            | \$610,972            | \$761,026            | \$1,081,655          | \$797,849            | \$811,010            | \$828,953            |                     |
|  | COEUR D'ALENE TRIBE OF IDAHO                   | \$2,148,387  | \$2,537,247          | \$2,552,550          | \$2,444,908          | \$2,340,704          | \$2,648,551          | \$2,714,055          | \$2,606,886          | \$2,686,196          | \$2,722,811          | \$2,717,875          | \$2,726,337          |                     |
|  | COLUMBIA RIVER INTERTRIBAL FISH COMMISSION     | \$1,035,653  | \$1,776,526          | \$4,329,842          | \$6,034,143          | \$7,660,904          | \$8,747,388          | \$7,939,587          | \$8,553,076          | \$9,041,926          | \$9,140,737          | \$7,740,397          | \$8,413,360          |                     |
|  | COLVILLE CONFEDERATED TRIBES                   | \$6,570,667  | \$4,519,814          | \$10,594,008         | \$10,278,445         | \$14,189,398         | \$21,993,516         | \$16,872,698         | \$15,116,519         | \$14,293,924         | \$15,137,000         | \$23,566,435         | \$16,674,160         |                     |
|  | CONFEDERATED TRIBES OF GRAND RONDE             |  |                      |                      | \$93,475             | \$124,703            | \$108,296            | \$10,571             | \$140,398            | \$134,867            | \$163,102            | \$234,021            | \$138,705            |                     |
|  | CONFEDERATED TRIBES OF SILET INDIANS           |  |                      |                      |                      |                      |                      | \$68,134             | \$52,780             | \$140,869            | \$124,210            | \$102,394            | \$130,324            |                     |
|  | CONFEDERATED TRIBES OF WARM SPRINGS            |  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                     |
|  | COWIT INDIAN TRIBE                             |  |                      |                      |                      |                      | \$34,395             | \$18,299             | \$34,937             | \$43,801             | \$43,055             | \$41,308             | \$41,065             |                     |
|  | FORT McDONNITT TRIBE                           |  |                      |                      |                      |                      |                      |                      |                      | \$4,650              | \$4,650              |                      |                      |                     |
|  | KALISPEL TRIBE OF INDIANS                      | \$1,752,834  | \$1,633,522          | \$1,790,852          | \$1,928,048          | \$2,046,331          | \$2,575,344          | \$2,709,448          | \$2,962,457          | \$3,133,722          | \$3,359,054          | \$4,505,004          | \$4,568,749          |                     |
|  | KOOTENAI TRIBE                                 | \$5,491,017  | \$7,402,457          | \$6,541,035          | \$6,938,439          | \$8,537,716          | \$12,321,474         | \$15,094,789         | \$21,941,731         | \$11,586,884         | \$15,188,307         | \$11,041,580         | \$12,755,152         |                     |
|  | NEZ PERCE TRIBE                                | \$11,959,023                                       | \$11,552,934         | \$12,037,027         | \$12,664,313         | \$15,349,520         | \$16,073,405         | \$15,900,874         | \$15,294,865         | \$16,713,068         | \$16,526,287         | \$18,138,282         | \$16,731,875         |                     |
|  | SHALSH AND KOOTENAI TRIBES CONFEDERATED TRIBES | \$39,627   | \$1,176,490          | \$483,878            | \$560,467            | \$430,107            | \$453,175            | \$755,839            | \$644,292            | \$484,144            | \$632,232            | \$613,878            | \$629,823            |                     |
|  | SHOSHONE-BANNOCK TRIBES                        | \$1,114,874  | \$1,749,602          | \$1,259,829          | \$2,438,482          | \$2,830,660          | \$2,837,461          | \$4,009,231          | \$3,351,518          | \$3,477,188          | \$3,422,313          | \$3,912,664          | \$3,601,056          |                     |
|  | SHOSHONE-PAUTE TRIBES                          | \$742,121  | \$684,324            | \$790,837            | \$749,757            | \$841,382            | \$1,147,875          | \$694,692            | \$626,509            | \$1,086,910          | \$936,944            | \$1,023,666          | \$1,028,574          |                     |
|  | SPOKANE TRIBE OF INDIANS                       | \$2,420,625  | \$2,726,944          | \$2,744,981          | \$2,761,856          | \$2,803,647          | \$2,932,796          | \$2,709,870          | \$3,314,939          | \$2,589,703          | \$3,403,933          | \$3,673,493          | \$5,267,198          |                     |
|  | UMATILLA CONFEDERATED TRIBES                   | \$5,421,899  | \$6,138,492          | \$6,593,650          | \$6,881,412          | \$11,365,123         | \$9,951,477          | \$12,122,357         | \$12,088,602         | \$11,248,947         | \$10,584,971         | \$11,987,368         | \$13,943,980         |                     |
|  | UPPER COLUMBIA UNITED TRIBES (UCUT)            |  | \$162,707            | \$251,327            | \$516,803            | \$427,731            | \$403,540            | \$389,914            | \$448,433            | \$542,525            | \$466,896            | \$537,684            | \$506,008            |                     |
|  | UPPER SNAKE RIVER TRIBES FOUNDATION            |  | \$20,776             | \$15,822             | \$131,067            | \$148,610            | \$162,735            | \$204,529            | \$340,150            | \$393,095            | \$381,505            | \$316,905            | \$396,708            |                     |
|  | YAKAMA CONFEDERATED TRIBES                     | \$10,974,057                                       | \$13,793,537         | \$17,438,231         | \$24,319,354         | \$32,944,242         | \$25,813,516         | \$25,447,029         | \$23,930,424         | \$27,481,991         | \$27,344,154         | \$23,095,849         | \$30,088,177         |                     |
|  | <b>TRIBE TOTAL</b>                             | <b>\$55,815,407</b>                                | <b>\$54,936,171</b>  | <b>\$74,452,563</b>  | <b>\$87,635,949</b>  | <b>\$111,613,192</b> | <b>\$114,414,475</b> | <b>\$119,824,854</b> | <b>\$118,539,441</b> | <b>\$119,414,105</b> | <b>\$117,413,403</b> | <b>\$121,899,505</b> | <b>\$127,174,307</b> |                     |
|  | INTERSTATE COMPACT                             | PACIFIC STATES MARINE FISHERIES COMMISSION (PSMFC) | \$13,490,125         | \$13,283,337         | \$14,452,104         | \$13,812,821         | \$13,908,430         | \$14,053,990         | \$12,711,728         | \$13,471,145         | \$13,923,744         | \$13,908,290         | \$14,114,444         | \$13,517,548        |
|  | UNIVERSITY                                     | UNIVERSITIES                                       | \$4,252,999          | \$3,441,552          | \$4,355,304          | \$3,939,562          | \$3,642,199          | \$3,384,748          | \$2,800,350          | \$3,123,240          | \$3,143,474          | \$3,034,343          | \$3,102,344          | \$3,019,914         |
|  | OTHER  | PRIVATE/NON-PROFIT/OTHER                           | \$9,329,690          | \$15,999,893         | \$14,476,097         | \$24,562,878         | \$51,870,632         | \$37,403,355         | \$36,314,947         | \$21,464,271         | \$24,668,856         | \$25,180,958         | \$24,010,159         | \$22,142,181        |
| LOCAL/SEMI GOVERNMENT                                  |  | \$4,257,817  | \$5,628,187          | \$8,355,797          | \$7,141,892          | \$5,933,917          | \$8,235,814          | \$7,854,727          | \$8,769,539          | \$10,995,773         | \$7,743,899          | \$4,497,166          | \$6,471,900          |                     |
| COLUMBIA BASIN FISH & WILDLIFE AUTHORITY               |  | \$3,220,918  | \$2,875,372          | \$2,102,582          | \$2,162,548          | \$1,748,321          | \$1,611,166          | \$1,231,260          | \$544,684            | \$53,710             |                      |                      |                      |                     |
| LAND ACQUISITIONS <sup>2</sup>                         |  | \$1,605,994  | \$1,693,766          | \$26,741,905         | \$52,203,712         | \$38,048,400         | \$23,741,722         | \$20,104,220         | \$22,110,885         | \$18,204,478         | \$8,998,595          | \$2,702,585          |                      |                     |
| UTILITY  |  | \$1,207,764  | \$897,497            | \$36,104             | \$41,731             | \$93,038             | \$1,802,147          | \$1,810,123          | \$1,862,082          | \$2,068,245          | \$1,989,826          | \$2,318,310          | \$1,690,830          |                     |
| NATIONAL FISH & WILDLIFE FOUNDATION                    |  | \$3,613,020  | \$3,964,862          | \$3,561,562          | \$3,471,611          | \$4,778,134          | \$4,833,194          | \$5,528,550          | \$4,191,459          | \$5,148,896          | \$4,792,260          | \$4,538,278          | \$4,643,486          |                     |
| CHIEF JOSEPH HATCHERY FUD COST SHARE                   |  |  |                      |                      |                      |                      | \$5,658,821          | \$3,141,637          |                      | \$1,875,149          | \$774,836            | \$836,214            | \$944,940            |                     |
| <b>OTHER TOTAL</b>                                     |  | <b>\$21,629,211</b>                                | <b>\$45,971,805</b>  | <b>\$47,449,709</b>  | <b>\$64,125,555</b>  | <b>\$111,810,933</b> | <b>\$88,992,739</b>  | <b>\$76,481,330</b>  | <b>\$57,136,255</b>  | <b>\$62,454,997</b>  | <b>\$57,139,112</b>  | <b>\$45,524,295</b>  | <b>\$60,706,042</b>  |                     |
| BPA G&A  |  |  |                      |                      |                      |                      |                      |                      |                      |                      |                      | \$10,367,580         |                      |                     |
| CRSO EIS   |  |  |                      |                      |                      |                      |                      |                      |                      |                      |                      | \$304,457            |                      |                     |
| <b>GRAND TOTAL</b>                                     |  | <b>\$151,238,055</b>                               | <b>\$174,413,007</b> | <b>\$205,271,805</b> | <b>\$239,587,953</b> | <b>\$311,214,895</b> | <b>\$306,409,772</b> | <b>\$291,101,892</b> | <b>\$269,134,110</b> | <b>\$279,550,549</b> | <b>\$274,172,174</b> | <b>\$259,957,534</b> | <b>\$289,372,127</b> |                     |

NOTES:  
1) Values above include accruals.  
2) Starting in FY13, land acquisition values may include stewardship costs for long-term operations and maintenance (O&M).  
3) G&A / CRSO EIS note: will send separately

| <b>Direct Program Expenditures by State, FY2018</b>   |               |               |               |               |               |               |                   |               |
|---|---------------|---------------|---------------|---------------|---------------|---------------|-------------------|---------------|
| Compiles program spending by Work Element Location  |               |               |               |               |               |               |                   |               |
| STATE   | 2011          | 2012          | 2013          | 2014          | 2015          | 2016          | 2017 <sup>3</sup> | 2018          |
| Washington  | \$121,317,884 | \$115,404,913 | \$75,365,193  | \$86,071,738  | \$90,272,232  | \$89,322,441  | \$87,798,353      | \$92,423,713  |
| Idaho   | \$50,870,890  | \$73,383,217  | \$51,857,476  | \$78,704,753  | \$68,248,817  | \$40,368,059  | \$50,237,861      | \$64,509,038  |
| Oregon  | \$86,884,304  | \$85,320,690  | \$101,607,686 | \$61,266,093  | \$97,958,650  | \$93,424,732  | \$83,807,412      | \$82,121,619  |
| Ocean   | \$3,590,371   | \$2,267,653   | \$509,410     | \$909,723     | \$920,156     | \$1,035,664   | \$1,031,552       | \$962,752     |
| Montana   | \$17,984,028  | \$11,143,660  | \$7,215,356   | \$8,285,323   | \$5,345,069   | \$7,233,270   | \$4,856,792       | \$16,732,097  |
| British Columbia  | \$1,610,361   | \$1,983,288   | \$2,042,752   | \$1,859,249   | \$1,991,758   | \$1,849,774   | \$2,099,864       | \$1,934,720   |
| Nevada  | \$422,594     | \$883,615     | \$524,606     | \$494,000     | \$763,225     | \$642,383     | \$758,778         | \$770,601     |
| Program Support/Admin/Overhead/Other <sup>2</sup>   | \$20,326,464  | \$15,922,536  | \$21,899,413  | \$31,463,211  | \$14,002,643  | \$20,245,051  | \$19,366,924      | \$19,245,550  |
| G&A   |               |               |               |               |               |               |                   | \$10,367,380  |
| CRSC EIS  |               |               |               |               |               |               |                   | \$304,457     |
|   | \$311,214,895 | \$306,409,772 | \$291,101,892 | \$269,134,110 | \$279,550,549 | \$274,172,174 | \$259,957,536     | \$289,372,127 |
| <b>Notes:</b>   |               |               |               |               |               |               |                   |               |
| 1) Starting in 2000, spending by state is tracked in PIsces based on where the contractor explicitly identified work location.  |               |               |               |               |               |               |                   |               |
| 2) Program Support/Admin/Other includes spending that cannot be traced back to a contract that has at least one work element requiring location; contracts without any work elements; program level spending not mapped to a specific project or NPCC province; and BFA Overhead. |               |               |               |               |               |               |                   |               |
| 3) FY2017 revised as of February 12, 2019.  |               |               |               |               |               |               |                   |               |
| 4) G&A / CRSC EIS note (will send separately).  |               |               |               |               |               |               |                   |               |

| Direct Program Expenditures by Province, FY2018   |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
|---|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Province  | 2007                 | 2008                 | 2009                 | 2010                 | 2011                 | 2012                 | 2013                 | 2014                 | 2015                 | 2016                 | 2017                 | 2018                 |
| BLUE MOUNTAIN   | \$9,489,802          | \$9,336,015          | \$10,063,271         | \$12,243,309         | \$13,045,831         | \$13,498,753         | \$13,359,734         | \$14,630,130         | \$16,928,838         | \$17,898,141         | \$15,136,556         | \$15,971,140         |
| COLUMBIA CASCADE  | \$7,340,355          | \$9,192,920          | \$18,334,391         | \$26,543,346         | \$52,343,560         | \$51,216,105         | \$36,245,776         | \$26,801,554         | \$28,292,737         | \$27,088,878         | \$23,417,021         | \$26,971,498         |
| COLUMBIA GORGE  | \$4,993,260          | \$8,354,049          | \$13,046,970         | \$16,165,914         | \$19,962,308         | \$13,560,427         | \$14,326,142         | \$10,014,903         | \$11,744,583         | \$9,724,087          | \$11,247,539         | \$12,057,261         |
| COLUMBIA PLATEAU  | \$28,768,912         | \$37,188,905         | \$42,706,871         | \$50,405,309         | \$59,165,613         | \$61,637,074         | \$61,223,676         | \$57,654,085         | \$67,777,655         | \$62,214,559         | \$62,987,617         | \$62,147,342         |
| COLUMBIA ESTUARY  | \$5,229,672          | \$6,075,054          | \$8,056,193          | \$6,848,834          | \$9,469,437          | \$11,109,892         | \$15,336,657         | \$10,819,987         | \$11,165,031         | \$11,471,831         | \$10,425,322         | \$8,368,864          |
| INTERMOUNTAIN   | \$25,281,129         | \$14,497,055         | \$12,350,282         | \$15,702,284         | \$17,198,718         | \$19,784,368         | \$16,144,888         | \$17,769,309         | \$17,220,238         | \$17,995,494         | \$20,182,310         | \$21,730,080         |
| LOWER COLUMBIA  | \$13,533,874         | \$14,744,699         | \$11,181,219         | \$15,259,843         | \$41,609,286         | \$33,899,854         | \$44,562,896         | \$13,867,496         | \$39,453,337         | \$40,819,289         | \$32,446,965         | \$31,737,631         |
| MIDDLE SNAKE  | \$1,782,913          | \$6,659,039          | \$3,299,192          | \$5,224,071          | \$4,433,754          | \$13,235,463         | \$3,315,759          | \$3,817,058          | \$4,600,725          | \$4,520,947          | \$4,516,591          | \$4,527,680          |
| MOUNTAIN COLUMBIA   | \$9,497,889          | \$11,347,198         | \$21,341,820         | \$11,427,897         | \$24,894,377         | \$22,160,067         | \$20,849,803         | \$29,293,225         | \$19,225,549         | \$21,252,149         | \$15,238,992         | \$35,985,026         |
| MOUNTAIN SNAKE  | \$16,791,815         | \$19,398,012         | \$21,934,884         | \$22,917,641         | \$28,149,960         | \$30,311,321         | \$28,453,559         | \$28,224,756         | \$40,285,556         | \$29,114,533         | \$34,958,776         | \$31,667,229         |
| UPPER SNAKE   | \$701,439            | \$1,184,634          | \$1,466,476          | \$7,248,075          | \$4,904,675          | \$13,213,441         | \$10,805,582         | \$19,886,298         | \$3,761,184          | \$4,997,891          | \$4,993,296          | \$3,449,209          |
| OTHER <sup>2</sup>  |                      | \$6,167,509          | \$7,274,724          | \$6,826,368          | \$7,722,192          | \$6,872,463          | \$4,578,007          | \$4,892,097          | \$5,062,472          | \$6,828,524          | \$5,039,627          | \$4,841,580          |
| PROGRAM SUPPORT/ADMIN/ OVERHEAD <sup>3</sup>  | \$11,230,086         | \$30,267,918         | \$34,215,512         | \$42,775,062         | \$28,315,184         | \$15,910,542         | \$21,899,413         | \$31,463,212         | \$14,032,643         | \$20,245,851         | \$19,366,924         | \$19,245,550         |
| G&A   |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      | \$10,367,580         |
| CRSO EIS  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      | \$304,457            |
| <b>Total</b>  | <b>\$134,641,146</b> | <b>\$174,413,007</b> | <b>\$205,271,805</b> | <b>\$239,587,953</b> | <b>\$311,214,895</b> | <b>\$306,409,772</b> | <b>\$291,101,892</b> | <b>\$269,134,110</b> | <b>\$279,550,549</b> | <b>\$274,172,174</b> | <b>\$259,957,536</b> | <b>\$289,372,127</b> |
| <b>Notes:</b>   |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| 1) Starting in 2008, spending by province is tracked in Pisces based on where the contractor explicitly identified work location.   |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| 2) Other includes "Undetermined" locations such as Ocean, Canada; and provinces not recognized by NPCC.   |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| 3) Program Support/Admin includes spending that cannot be traced back to a contract that has at least one work element requiring location; contracts without any work elements at all; program level spending not mapped to a specific project; and BPA Overhead. |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| 4) FY17 revised as of February 12, 2019.  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| 5) G&A / CRSO EIS note (will send separately)   |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |

| Direct Program Expenditures by Category, FY2018  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
|--|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Category   | 2007                 | 2008                 | 2009                 | 2010                 | 2011                 | 2012                 | 2013                 | 2014                 | 2015                 | 2016                 | 2017                 | 2018                 |
| Coordination (Local/Regional)  | \$7,393,717          | \$15,227,116         | \$18,618,170         | \$22,462,594         | \$25,185,794         | \$28,352,559         | \$30,074,400         | \$13,294,305         | \$15,500,245         | \$13,778,450         | \$13,866,905         | \$2,490,778          |
| Coordination (BPA Overhead) <sup>1</sup>   |                      |                      |                      |                      |                      |                      |                      | \$14,616,142         | \$14,404,354         | \$15,215,335         | \$14,542,931         | \$11,036,774         |
| Data Management  | \$206,545            | \$2,803,385          | \$3,944,851          | \$4,199,579          | \$4,315,007          | \$4,300,748          | \$3,990,351          | \$4,244,807          | \$4,077,474          | \$7,152,515          | \$6,798,514          | \$5,980,713          |
| Habitat (Restoration/Protection)   | \$65,391,135         | \$40,793,613         | \$76,781,454         | \$80,386,509         | \$23,373,947         | \$122,409,226        | \$118,891,309        | \$102,422,790        | \$124,435,135        | \$117,933,009        | \$98,185,617         | \$123,250,425        |
| Harvest Augmentation   | \$447,985            | \$3,674,945          | \$3,417,255          | \$3,241,566          | \$3,599,302          | \$4,429,624          | \$4,077,995          | \$4,062,872          | \$4,249,774          | \$4,206,148          | \$4,321,385          | \$4,599,734          |
| Mainstem Survival  | \$4,164,020          | -                    | -                    | -                    | -                    | -                    | -                    | -                    | -                    | -                    | -                    | -                    |
| Monitoring   | \$22,794,198         | -                    | -                    | -                    | -                    | -                    | -                    | -                    | -                    | -                    | -                    | -                    |
| Production (Supplementation)   | \$36,296,240         | \$25,638,528         | \$28,175,648         | \$45,271,831         | \$61,846,889         | \$53,658,935         | \$50,024,766         | \$45,146,279         | \$32,202,008         | \$31,490,425         | \$34,872,455         | \$36,978,108         |
| Research and Evaluation  | \$26,811,186         | -                    | -                    | -                    | -                    | -                    | -                    | -                    | -                    | -                    | -                    | -                    |
| BPA Program Support  | \$11,152,430         | -                    | -                    | -                    | -                    | -                    | -                    | -                    | -                    | -                    | -                    | -                    |
| Law Enforcement  |                      | \$1,119,159          | \$705,044            | \$656,356            | \$805,250            | \$853,122            | \$750,780            | \$883,479            | \$865,990            | \$800,717            | \$1,007,595          | \$999,210            |
| Predator Removal   |                      | \$3,200,172          | \$3,264,130          | \$5,549,112          | \$2,983,190          | \$3,550,732          | \$3,309,064          | \$3,079,435          | \$3,614,166          | \$4,251,762          | \$4,211,095          | \$3,292,431          |
| Research, Monitoring and Evaluation  |                      | \$61,948,189         | \$70,325,233         | \$79,820,206         | \$89,101,514         | \$89,527,224         | \$80,053,469         | \$80,583,801         | \$82,202,203         | \$79,345,812         | \$82,150,738         | \$78,032,416         |
| G&A  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      | \$10,367,580         |
| CRSO EIS   |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      | \$304,457            |
| <b>Total</b>   | <b>\$174,456,855</b> | <b>\$174,413,007</b> | <b>\$205,271,805</b> | <b>\$239,587,953</b> | <b>\$311,214,895</b> | <b>\$304,409,772</b> | <b>\$291,101,892</b> | <b>\$269,134,110</b> | <b>\$279,550,549</b> | <b>\$274,172,174</b> | <b>\$259,157,534</b> | <b>\$269,372,127</b> |
| Notes:   |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| 1) BPA's database identifies projects by their "Purpose" (general goal) and "Emphasis" (primary type of work, e.g., habitat restoration). BPA does not track its project management overhead against individual projects or contracts, so there is no easy or accurate way to allocate BPA overhead to specific purposes or emphases. Thus, in the above report, BPA includes its staffing to manage the 630-plus contracts in its fish and wildlife program in the category identified as Coordination (BPA Overhead), and its direct technical services contracts for Data Management and RM&E in those respective categories. |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| 2) Estimated spending is based at the project level. Therefore if a project is assigned an emphasis of Habitat, but also does RME, all expenditures for the project are included under Habitat.  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| 3) Starting in Fiscal Year 2015 (and revised for FY2014), Costs by Category will now separate Coordination costs between Regional/Local Coordination and BPA Overhead.   |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| 4) G&A / CRSO EIS note (will send separately)  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |

| Direct Program Expenditures by Fund, FY2018   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| FUND  | FY2008                | 2010                  | 2011                  | 2012                  | 2013                  | 2014                  | 2015                  | 2016                  | 2017                  | 2018                  |
| Total BiOp (non-Accord)   |                       | \$ 88,120,408         | \$ 105,257,648        | \$ 109,818,406        | \$ 102,742,463        | \$ 93,422,644         | \$ 102,350,719        | \$ 103,824,064        | \$ 98,720,366         | \$ 96,641,476         |
| Total Accords <sup>1</sup>  | \$ 31,917,678         |                       |                       |                       |                       |                       |                       |                       |                       |                       |
| Total Accords - BiOp  |                       | \$ 64,187,623         | \$ 79,829,739         | \$ 76,351,240         | \$ 75,236,565         | \$ 63,657,117         | \$ 78,332,689         | \$ 56,932,653         | \$ 57,033,262         | \$ 57,573,752         |
| Total Accords - Non-BiOp  |                       | \$ 20,983,783         | \$ 37,606,835         | \$ 45,782,424         | \$ 48,583,014         | \$ 30,913,614         | \$ 36,966,094         | \$ 48,793,368         | \$ 46,988,392         | \$ 66,808,002         |
| Total General   | \$ 130,932,844        | \$ 51,765,457         | \$ 73,608,793         | \$ 58,956,587         | \$ 48,813,941         | \$ 54,828,830         | \$ 44,748,863         | \$ 47,558,238         | \$ 40,649,455         | \$ 45,108,946         |
| Total BPA Overhead  | \$ 11,562,265         | \$ 14,530,682         | \$ 14,911,880         | \$ 15,501,115         | \$ 15,723,909         | \$ 16,911,905         | \$ 17,132,184         | \$ 17,063,851         | \$ 16,566,061         | \$ 12,567,914         |
| G&A   |                       |                       |                       |                       |                       |                       |                       |                       |                       | \$ 10,367,580         |
| CRSO ES   |                       |                       |                       |                       |                       |                       |                       |                       |                       | \$ 304,457            |
| <b>TOTAL PROGRAM</b>  | <b>\$ 174,413,007</b> | <b>\$ 239,587,953</b> | <b>\$ 311,214,895</b> | <b>\$ 306,409,772</b> | <b>\$ 291,101,892</b> | <b>\$ 269,134,110</b> | <b>\$ 279,550,549</b> | <b>\$ 274,172,174</b> | <b>\$ 259,957,536</b> | <b>\$ 289,372,127</b> |
| <b>Notes:</b>   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |
| 1) BiOp tracking of fund level began in 2009; Accords began in 2008.  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |
| 2) Spending is estimated based on the % of funding towards a project. For example, if a project budget is 70% BiOp and 30% General, the project expenditures will be prorated 70% towards BiOp and 30% General. |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |
| 3) FY2017 revised as of February 12, 2019.  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |
| 4) G&A / CRSO ES note (will send separately)  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |

**Direct Program Expenditures by Species, FY2018**

| <b>Species type</b>          | <b>2011</b>          | <b>2012</b>          | <b>2013</b>          | <b>2014</b>          | <b>2015</b>          | <b>2016</b>          | <b>2017</b>          | <b>2018</b>          |
|------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| <b>Expense Expenditures</b>  |                      |                      |                      |                      |                      |                      |                      |                      |
| Anadromous Fish              | \$152,268,152        | \$172,625,717        | \$162,598,813        | \$160,287,940        | \$181,979,402        | \$187,926,101        | \$174,955,973        | \$170,903,378        |
| Resident Fish                | \$38,469,680         | \$41,986,004         | \$39,747,604         | \$34,671,529         | \$36,131,999         | \$42,949,759         | \$41,626,757         | \$41,448,068         |
| Wildlife                     | \$12,032,226         | \$13,214,570         | \$11,401,471         | \$11,970,486         | \$16,630,031         | \$14,091,922         | \$12,514,234         | \$12,630,675         |
| Program Support              | \$18,278,218         | \$21,130,595         | \$25,235,638         | \$24,850,807         | \$23,435,779         | \$13,174,409         | \$25,458,652         | \$23,049,232         |
| BPA G&A                      |                      |                      |                      |                      |                      |                      |                      | \$10,367,580         |
| CRSO EIS                     |                      |                      |                      |                      |                      |                      |                      | \$304,457            |
| <b>Capital Expenditures</b>  |                      |                      |                      |                      |                      |                      |                      |                      |
| Anadromous Fish              | \$56,777,879         | \$33,006,552         | \$32,488,551         | \$6,079,913          | \$10,173,686         | \$4,896,855          | \$122,159            | \$5,368,928          |
| Resident Fish                | \$20,472,138         | \$11,692,569         | \$8,440,507          | \$16,958,535         | \$2,603,188          | \$2,164,485          | \$241,080            | \$13,564,447         |
| Wildlife                     | \$18,676,437         | \$15,853,187         | \$10,813,833         | \$14,438,818         | \$9,789,350          | \$8,973,342          | \$5,038,680          | \$11,735,362         |
| Program Support <sup>2</sup> | -\$101,012           | \$42,215             | \$375,475            | -\$123,918           | -\$1,192,886         | -\$4,698             |                      |                      |
| CJH Cost Share               | -\$5,658,821         | -\$3,141,637         |                      |                      |                      |                      |                      |                      |
| <b>TOTAL</b>                 | <b>\$311,214,895</b> | <b>\$306,409,772</b> | <b>\$291,101,892</b> | <b>\$269,134,110</b> | <b>\$279,550,549</b> | <b>\$274,172,174</b> | <b>\$259,957,535</b> | <b>\$289,372,127</b> |

Notes:

1) Starting in 2008, Spending can be tracked back to a work element where the contractor explicitly identified the "Primary Focal Species" benefiting from the work.

2) Program Support includes includes contracts that contain only administrative work elements or program level spending that could not be mapped to a specific project, as well as BPA internal overhead such as personnel costs.

3) FY2017 revised as of February 12, 2019.

4) G&A / CRSO EIS note (will send separately)

| Direct Program Expenditures of FCRPS BIOP Projects, FY2018   |                      |                      |                      |      |                     |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
|--|----------------------|----------------------|----------------------|------|---------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Category   | 2008                 | 2009                 | 2010                 | 2007 | 2008                | 2009                 | 2010                 | 2011                 | 2012                 | 2013                 | 2014                 | 2015                 | 2016                 | 2017                 | 2018                 |
| Expense  | \$91,806,508         | \$113,900,603        | \$129,758,323        |      | \$81,217,854        | \$113,900,603        | \$129,758,323        | \$143,477,289        | \$162,060,445        | \$151,177,409        | \$143,128,948        | \$165,362,221        | \$159,587,744        | \$156,828,473        | \$153,679,667        |
| Capital  | \$9,869,697          | \$11,668,863         | \$21,761,323         |      | \$9,869,636         | \$11,668,863         | \$21,761,323         | \$31,297,548         | \$29,240,867         | \$29,683,425         | \$5,925,196          | \$7,703,153          | \$1,249,955          | -\$396,792           | \$25,343             |
| <b>TOTAL</b>   | <b>\$101,676,205</b> | <b>\$125,569,466</b> | <b>\$151,519,646</b> |      | <b>\$91,087,490</b> | <b>\$125,569,466</b> | <b>\$151,519,646</b> | <b>\$174,774,837</b> | <b>\$191,301,312</b> | <b>\$180,860,834</b> | <b>\$149,054,144</b> | <b>\$173,065,374</b> | <b>\$161,237,699</b> | <b>\$156,431,680</b> | <b>\$153,705,010</b> |
| <b>Notes:</b>  |                      |                      |                      |      |                     |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| 1) Estimated spending is based at the project level. Therefore, if a project partially supports the FCRPS BIOP, all expenditures for the project are included. |                      |                      |                      |      |                     |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| 2) Passage projects were moved from Capital to Expense funding starting with FY16 contracts.   |                      |                      |                      |      |                     |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| 3) FY2017 reviewed as of February 12, 2019; no changes.  |                      |                      |                      |      |                     |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |

**Direct Program Expenditures for Land Purchases, FY2018**

| Project Proponent(s)                                       | 2011         | 2012        | 2013        | 2014         | 2015        | 2016         | 2017        | 2018         |
|--|--------------|-------------|-------------|--------------|-------------|--------------|-------------|--------------|
| Blue Mountain Land Trust                                   |              |             |             |              | \$562,383   |              |             |              |
| City of Eugene   |              | \$1,075,000 |             |              |             |              |             |              |
| City of Salem  |              |             | \$1,212,330 |              |             |              |             |              |
| Coeur D'Alene Tribe  |              |             |             |              |             | \$40,308     | \$99,543    | \$170,178    |
| Columbia Land Trust  |              | \$5,306,043 | \$1,711,235 | \$693,096    | \$2,051,603 |              |             |              |
| Colville Confederated Tribes                               | \$720,811    | \$1,743,906 | \$1,611,630 | \$283,048    |             |              |             |              |
| Confederated Tribes of the Grande Ronde                    |              | \$54,305    | \$3,596,391 | \$12,500     | \$1,741,197 |              |             |              |
| Confederated Tribes of the Warm Springs                    |              |             |             |              | \$3,632,833 |              |             |              |
| Ducks Unlimited  |              |             | \$520,081   |              |             |              |             |              |
| Friends of Buford Park                                     |              |             |             |              | \$423,162   |              |             |              |
| Greenbelt Land Trust                                       |              | \$772,500   | \$1,500,000 | \$244,082    | \$947,500   |              |             |              |
| Idaho Department of Fish and Game (IDFG)                   | \$1,750,665  | \$5,384,783 |             | \$14,000,000 | \$7,980,000 | \$1,877,581  | \$2,438,220 | \$7,369,712  |
| Idaho Office of Species Conservation                       |              |             |             |              |             | \$680,000    |             |              |
| Kalispel Tribe   |              |             | \$348,570   |              |             | \$85,217     | \$72,676    | \$203,432    |
| Kittitas Conservation Trust                                |              | \$928,718   |             |              |             |              |             |              |
| Kootenai Tribe   |              | \$420,929   |             |              |             |              | \$500       | \$500        |
| Lower Columbia River Estuary Partnership (LCREP)           |              | \$946,739   |             |              |             |              |             |              |
| McKenzie River Trust                                       |              | \$52,986    |             | \$318,372    |             |              |             |              |
| Methow Salmon Recovery Foundation                          |              |             |             |              |             |              |             |              |
| Montana Fish, Wildlife and Parks (MFWP)                    | \$9,750,112  | \$1,349,403 | \$642,763   | \$1,610,425  | \$154,274   |              |             | \$10,733,065 |
| National Fish and Wildlife Foundation                      |              |             |             |              |             |              |             |              |
| Nature Conservancy   | \$20,851,010 |             | \$3,412,000 |              | \$2,268,978 |              |             |              |
| Nez Perce Tribe  | \$5,788      | \$820       | \$5,000     | \$5,000      | \$5,729     | \$5,899      | \$5,980     | \$5,980      |
| Oregon Department Of Fish and Wildlife (ODFW)              | \$9,716,071  |             | \$4,595,329 |              | \$1,082,452 | \$10,868,814 | \$5,038,680 | \$6,978,254  |
| Oregon Watershed Enhancement Board                         |              |             | \$600,000   |              |             |              |             |              |
| S Central Washington Resource Conservation and Development |              |             |             |              |             |              |             |              |
| Salish and Kootenai Confederated Tribes                    | \$4,068,146  | \$6,370,226 | \$1,596,594 | \$2,196,197  | \$490,965   | \$1,815,934  | \$476,466   | \$524,163    |
| Shoshone-Bannock Tribes                                    | \$1,996,948  | \$3,666,163 |             |              |             | \$786,320    |             |              |
| Shoshone-Paiute Tribes                                     |              | \$3,156,008 |             |              |             |              |             |              |
| Umatilla Confederated Tribes (CTUIR)                       |              | \$15,382    |             |              | \$771,010   | \$1,783,866  |             | \$491,757    |
| US Fish and Wildlife Service (USFWS)                       |              |             |             |              |             |              |             |              |

| Project Proponent(s)                              | 2011                | 2012                | 2013                | 2014                | 2015                | 2016                | 2017               | 2018                |
|---|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--------------------|---------------------|
| Washington Department of Fish and Wildlife (WDFW) |                     | \$2,365,285         | \$572,469           |                     |                     |                     |                    |                     |
| Willamalane Parks and Recreation District         |                     |                     | \$500,509           | \$741,501           |                     |                     |                    |                     |
| Yakama Confederated Tribes                        | \$3,344,161         | \$4,437,146         | \$333,123           |                     |                     | \$260,540           | \$866,530          | \$225,545           |
| Yamhill Soil and Water Conservation District      |                     |                     | \$983,699           |                     |                     |                     |                    |                     |
| <b>Grand Total</b>                                | <b>\$52,203,712</b> | <b>\$38,046,341</b> | <b>\$23,741,722</b> | <b>\$20,104,220</b> | <b>\$22,112,085</b> | <b>\$18,204,478</b> | <b>\$8,998,595</b> | <b>\$26,702,586</b> |

**Notes:**

- 1) Values above include bank fees, permits, etc.
- 2) Starting in FY13, land acquisition values may include stewardship costs for long-term operations and maintenance (O&M).
- 3) Listed above is the project proponent for which acquisition was acquired

| Direct Program Expenditures for Research, Monitoring and Evaluation (RM&E), FY2018  |                     |                     |                     |                     |                     |                     |                     |                     |
|---|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Category  | 2011                | 2012                | 2013                | 2014                | 2015                | 2016                | 2017                | 2018                |
| Artificial Production   | \$22,563,163        | \$25,176,585        | \$23,580,530        | \$24,046,106        | \$24,079,654        | \$24,391,057        | \$24,937,524        | \$24,832,549        |
| Habitat   | \$15,426,001        | \$13,469,530        | \$12,969,685        | \$13,133,028        | \$13,434,942        | \$13,332,983        | \$13,236,006        | \$12,924,874        |
| Harvest   | \$1,763,067         | \$1,735,888         | \$1,053,094         | \$1,228,057         | \$1,098,003         | \$1,216,119         | \$1,407,033         | \$1,129,180         |
| Hydrosystem   | \$8,489,904         | \$7,982,519         | \$7,218,238         | \$6,753,430         | \$8,107,150         | \$7,908,829         | \$8,864,829         | \$8,297,504         |
| Production  | \$2,826,954         | \$2,212,363         | \$2,062,170         | \$1,991,053         | \$1,553,865         | \$1,264,152         | \$1,246,514         | \$1,213,338         |
| Programmatic  | \$38,012,425        | \$38,950,340        | \$33,161,752        | \$33,432,127        | \$33,928,588        | \$31,232,673        | \$32,458,833        | \$29,534,970        |
|   | <b>\$89,101,514</b> | <b>\$89,527,225</b> | <b>\$80,053,468</b> | <b>\$80,583,801</b> | <b>\$82,202,203</b> | <b>\$79,345,812</b> | <b>\$82,150,738</b> | <b>\$78,032,415</b> |
| <b>Notes:</b>   |                     |                     |                     |                     |                     |                     |                     |                     |
| 1) Estimated spending is based at the project level. Therefore if a project is labeled Artificial Production, but also supports Habitat, the expenditures are counted as Artificial Production. |                     |                     |                     |                     |                     |                     |                     |                     |

**Direct Program Expenditures for Artificial Production, FY2018**

| Category                      | 2011                | 2012                | 2013                | 2014                | 2015                | 2016                | 2017                | 2018                |
|-------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Coordination (local/regional) | \$684,891           | \$664,088           | \$785,309           | \$633,509           | \$618,853           | \$703,886           | \$690,901           | \$598,768           |
| Harvest Augmentation          | \$3,599,302         | \$4,429,624         | \$4,077,995         | \$4,062,872         | \$4,248,774         | \$4,206,148         | \$4,321,385         | \$6,599,734         |
| RM and E                      | \$22,583,163        | \$25,176,585        | \$23,588,530        | \$24,046,106        | \$24,079,654        | \$24,391,057        | \$24,937,524        | \$24,832,549        |
| Supplementation               | \$61,846,889        | \$53,165,835        | \$50,024,766        | \$45,146,279        | \$32,202,008        | \$31,490,426        | \$34,872,455        | \$36,978,108        |
| <b>Total</b>                  | <b>\$88,714,245</b> | <b>\$83,436,132</b> | <b>\$78,476,600</b> | <b>\$73,888,765</b> | <b>\$61,149,290</b> | <b>\$60,791,517</b> | <b>\$64,822,265</b> | <b>\$69,009,159</b> |

**Notes:**

1) Estimated spending is based at the project level. Therefore if a project is assigned an purpose of Habitat, but also does Harvest, all expenditures for the project are included under Habitat.

## Direct Program Expenditures on ESA-Listed Fish, 2018

| ESA Listed Focal Species Name                          | Expense                   |                                    |                        | Capital                   |                                    |                        | Total Spending       |
|--|---------------------------|------------------------------------|------------------------|---------------------------|------------------------------------|------------------------|----------------------|
|  | Expense "Direct" Spending | "Contract Administration" Spending | Expense Total Spending | Capital "Direct" Spending | "Contract Administration" Spending | Capital Total Spending |                      |
| Chinook - Lower Columbia River ESU (threatened)        | \$4,810,837               | \$1,433,780                        | \$6,244,616            | \$4,132                   | \$0                                | \$4,132                | <b>\$6,248,749</b>   |
| Chinook - Snake River Fall ESU (threatened)            | \$8,774,336               | \$3,379,923                        | \$12,154,258           | \$47                      | \$0                                | \$47                   | <b>\$12,154,305</b>  |
| Chinook - Snake River Spring/Summer ESU (threatened)   | \$18,583,819              | \$5,107,639                        | \$23,691,458           | \$47                      | \$0                                | \$47                   | <b>\$23,691,505</b>  |
| Chinook - Upper Columbia River Spring ESU (endangered) | \$9,776,508               | \$4,607,902                        | \$14,384,410           | \$5,597                   | \$14,882                           | \$20,478               | <b>\$14,404,888</b>  |
| Chinook - Upper Willamette River ESU (threatened)      | \$3,564,297               | \$1,573,350                        | \$5,137,648            | \$783,927                 | \$675,875                          | \$1,459,803            | <b>\$6,597,450</b>   |
| Chum - Columbia River ESU (threatened)                 | \$2,876,639               | \$390,524                          | \$3,267,163            | \$0                       | \$0                                | \$0                    | <b>\$3,267,163</b>   |
| Coho - Lower Columbia River ESU (threatened)           | \$3,620,073               | \$689,083                          | \$4,309,156            | \$1,089,761               | \$939,611                          | \$2,029,372            | <b>\$6,338,527</b>   |
| Sockeye - Snake River ESU (endangered)                 | \$6,468,817               | \$1,202,977                        | \$7,671,794            | \$0                       | \$0                                | \$0                    | <b>\$7,671,794</b>   |
| Steelhead - Lower Columbia River DPS (threatened)      | \$4,607,374               | \$1,247,301                        | \$5,854,675            | \$515                     | \$0                                | \$515                  | <b>\$5,855,190</b>   |
| Steelhead - Middle Columbia River DPS (threatened)     | \$29,263,558              | \$11,914,077                       | \$41,177,635           | \$19                      | \$0                                | \$19                   | <b>\$41,177,654</b>  |
| Steelhead - Snake River DPS (threatened)               | \$21,800,570              | \$5,410,647                        | \$27,211,217           | \$19                      | \$0                                | \$19                   | <b>\$27,211,236</b>  |
| Steelhead - Upper Columbia River DPS (endangered)      | \$10,422,784              | \$3,294,085                        | \$13,716,869           | \$19                      | \$0                                | \$19                   | <b>\$13,716,888</b>  |
| Steelhead - Upper Willamette River DPS (threatened)    | \$2,694,232               | \$1,365,353                        | \$4,059,585            | \$1,145,527               | \$987,678                          | \$2,133,205            | <b>\$6,192,790</b>   |
| Chub, Oregon (endangered) <sup>4</sup>                 |                           |                                    |                        |                           |                                    |                        |                      |
| Cutthroat Trout, Lahontan (threatened)                 | \$1,038,255               | \$989,691                          | \$2,027,946            | \$0                       | \$0                                | \$0                    | <b>\$2,027,946</b>   |
| Sturgeon, White - Kootenai River DPS (endangered)      | \$9,252,238               | \$2,470,394                        | \$11,722,632           | \$0                       | \$0                                | \$0                    | <b>\$11,722,632</b>  |
| Trout, Bull (threatened)                               | \$9,639,737               | \$5,833,687                        | \$15,473,425           | \$11,985,360              | \$627,809                          | \$12,613,168           | <b>\$28,086,593</b>  |
| <b>TOTAL</b>   | <b>\$147,194,073</b>      | <b>\$50,910,413</b>                | <b>\$198,104,486</b>   | <b>\$15,014,970</b>       | <b>\$3,245,855</b>                 | <b>\$18,260,825</b>    | <b>\$216,365,311</b> |

### Notes:

- 1) Direct spending can be tracked back to a work element where the contractor explicitly identified the "Primary Focal Species" benefiting from the work.
- 2) Contract Administration spending can be tracked back to a work element that did not require the contractor to identify the "Primary Focal Species" benefiting from the work.
- 3) Negative values for Capital Spending are a result of over-accruing costs in the previous year.
- 4) Oregon Chub has been delisted.

|  |              |              |              |              |           |              |              |
|--|--------------|--------------|--------------|--------------|-----------|--------------|--------------|
| Chinook - Lower Columbia River ESU (Threatened)        | \$4,810,837  | \$1,433,780  | \$6,244,616  | \$4,132      | \$0       | \$4,132      | \$6,248,749  |
| Chinook - Snake River Fall ESU (Threatened)            | \$8,774,336  | \$3,379,923  | \$12,154,258 | \$47         | \$0       | \$47         | \$12,154,305 |
| Chinook - Snake River Spring/Summer ESU (Threatened)   | \$18,583,819 | \$5,107,639  | \$23,691,458 | \$47         | \$0       | \$47         | \$23,691,505 |
| Chinook - Upper Columbia River Spring ESU (Endangered) | \$9,776,508  | \$4,607,902  | \$14,384,410 | \$5,597      | \$14,882  | \$20,478     | \$14,404,888 |
| Chinook - Upper Willamette River ESU (Threatened)      | \$3,564,297  | \$1,573,350  | \$5,137,648  | \$783,927    | \$675,875 | \$1,459,803  | \$6,597,450  |
| Chum - Columbia River ESU (Threatened)                 | \$2,876,639  | \$390,524    | \$3,267,163  | \$0          | \$0       | \$0          | \$3,267,163  |
| Coho - Lower Columbia River ESU (Threatened)           | \$3,620,073  | \$689,083    | \$4,309,156  | \$1,089,761  | \$939,611 | \$2,029,372  | \$6,338,527  |
| Sockeye - Snake River ESU (Endangered)                 | \$6,468,817  | \$1,202,977  | \$7,671,794  | \$0          | \$0       | \$0          | \$7,671,794  |
| Steelhead - Lower Columbia River DPS (Threatened)      | \$4,607,374  | \$1,247,301  | \$5,854,675  | \$515        | \$0       | \$515        | \$5,855,190  |
| Steelhead - Middle Columbia River DPS (Threatened)     | \$29,263,558 | \$11,914,077 | \$41,177,635 | \$19         | \$0       | \$19         | \$41,177,654 |
| Steelhead - Snake River DPS (Threatened)               | \$21,800,570 | \$5,410,647  | \$27,211,217 | \$19         | \$0       | \$19         | \$27,211,236 |
| Steelhead - Upper Columbia River DPS (Threatened)      | \$10,422,784 | \$3,294,085  | \$13,716,869 | \$19         | \$0       | \$19         | \$13,716,888 |
| Steelhead - Upper Willamette River DPS (Threatened)    | \$2,694,232  | \$1,365,353  | \$4,059,585  | \$1,145,527  | \$987,678 | \$2,133,205  | \$6,192,790  |
| Cutthroat Trout, Lahontan (Threatened)                 | \$1,038,255  | \$989,691    | \$2,027,946  | \$0          | \$0       | \$0          | \$2,027,946  |
| Sturgeon, White - Kootenai River DPS (Endangered)      | \$9,252,238  | \$2,470,394  | \$11,722,632 | \$0          | \$0       | \$0          | \$11,722,632 |
| Trout, Bull (Threatened)                               | \$9,639,737  | \$5,833,687  | \$15,473,425 | \$11,985,360 | \$627,809 | \$12,613,168 | \$28,086,593 |

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**From:** Harrison, John <jharrison@nwcouncil.org>  
**Sent:** Tuesday, January 10, 2017 10:55 AM  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Subject:** Costs report

Hi, Sharon:

It's that time of year again for me to begin my annual report on fish and wildlife costs in the last fiscal year. Assuming you are my best contact for the updated files, same as last year, could you let me know if this is something you can help me with as you have in the past?

Below is a clip of the Table of Contents from last year's report, just to remind you of the files.

Thanks,

John

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John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

**From:** Harrison, John  
**Sent:** Wed Feb 08 09:31:51 2017  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Subject:** Costs report  
**Importance:** Normal

Hi, Sharon. Any news from the higher-ups about when you'll be able to release the various costs spreadsheets?

John

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

**From:** John Harrison  
**Sent:** Wed May 02 16:10:02 2018  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Subject:** [EXTERNAL] A could of requests  
**Importance:** Normal

Sharon:

Thanks again for the answers to our questions. As you might expect, these generated a couple of requests from Member Karier:

- You volunteered to send some more years' of BiOp costs (Figure and Table 3, "Costs of FCRPS BiOp Projects"). How about three more years for the Figure so we have basically 11 years (looks like 10), 2007 through 2017 (the figure and table currently start with 2010). And then as many years as you have available and are comfortable sharing for the table? I don't know how far back your reporting of these costs goes, and I know that it might be apples and oranges including some costs from years ago in the same table with current costs. So please resend the spreadsheet with as many years as you are comfortable sharing, and we will take care of the figure (10/11 years) and table (all years).
- Thanks for the definition of 'Programmatic' for Figure 7, Costs of Research, Monitoring and Evaluation. Because Programmatic is the largest piece of the pie (\$32 million, 39 percent), for *next year's* report would it be possible to list the projects that go into that calculation? I'll make a note or keep this email to remind myself to ask you then.

John

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
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**From:** John Harrison  
**Sent:** Thu Jan 18 09:05:43 2018  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Subject:** [EXTERNAL] Annual report on fish and wildlife costs  
**Importance:** Normal

Hi, Sharon:

It's that time again for me to ask you when you think you might have the numbers for the last fiscal year available for our annual report on fish and wildlife costs.

Cheers,

John

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

**From:** John Harrison  
**Sent:** Mon Sep 24 16:48:13 2018  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Cc:** Stacy Horton  
**Subject:** [EXTERNAL] Costs question  
**Importance:** Normal

Hi, Sharon:

My colleague Stacy Horton, a biologist who works for our Washington members, is looking into fish and wildlife costs and asks the following:

I am developing a spreadsheet of all BPA project/proponent budgets from 2004 thru 2019, and have added in some columns for the Accord extensions through 2022. When I compared my budget totals to the 'Cost Report', it became clear there must be some differences in data used. My source for data is cbfish.org, *Expense* portfolios 2004-2014, and 2015-2019, and the Accord numbers out of proposed Accord extensions, posted by BPA on their public outreach site. So all of my numbers originate from BPA, but do not align with the totals used by the Cost Report. Another issue is how BPA handles project budget divisions where multiple partners are listed as project proponents- divide equally amongst listed proponents? Other?

Can you help? I certainly don't know the answers.  
Thanks very much,

John

p.s. Below is Stacy's contact information.

Stacy Horton  
Policy Analyst, Biologist  
668 N. Riverpoint Blvd, Suite 133  
Spokane, WA 99202  
509-828-1329  
shorton@nwcouncil.org

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
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(b)(6) (cell)

**From:** John Harrison  
**Sent:** Mon Mar 04 15:38:09 2019  
**To:** Christine Read (cread@bpa.gov)  
**Subject:** [EXTERNAL] FW: Sorting fish cost numbers  
**Importance:** Normal

Chris, I don't know if you can help me with this, but Bill Bakke asks, below, some pretty specific questions related to costs of artificial production. I know you can't be as specific as he wants clear back to 1987, but I wonder if, as with other tables you have sent me, you can answer Bill's questions for the last nine or ten years. I also see he asks some questions about fish production that would not be in the cost information you work with. For that stuff, I'll just have to say I can't get it and don't know where to find it, which is true. I think he might be asking questions that would have been best answered by the Hatchery Scientific Review Group, and that was years ago.

If you can provide the financial information, it would **not** be for this year's cost report. I could use it for next year's report, though.

I'm sorry to bother you with this, but I don't know what else to do with Bill's request, and I think it might be information the Council members would be interested in.

John

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
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**From:** Bill Bakke (b)(6)  
**Sent:** Monday, March 04, 2019 2:20 PM  
**To:** John Harrison <jharrison@nwcouncil.org>; Bill Bakke (b)(6)  
**Subject:** Re: Sorting fish cost numbers

John,

Thank you for the information I asked for. It is GREATLY appreciated. You asked me to write up my request for information on artificial production.

Cost Accounting for Artificial Production 1978 to 2018 (for annual reports)

Cost of anadromous fish hatchery production:  
- AP for anadromous fish harvest mitigation by species  
- subcategory AP for T&E anadromous species by species  
- subcategory AP for unmarked hatchery fish by species

I believe this covers the ground that I assume the Council and BPA would like to have for more specific cost accounting for AP of anadromous fish since this annual expense is considerable. This expense would include construction, O&M, marking, research, inventory of hatchery and wild returns, personnel and administrative costs for hatchery production. Right now the data provided does not foster a reliable cost accounting for the cost of artificial production of anadromous fish on an annual and on-going basis.

Information for each AP program that provides the information necessary to evaluate the cost per smolt, smolt survival rates and cost per harvestable adult and cost per direct financial value is necessary to provide cost accounting for each hatchery program. The categories to be included in this accounting are provided by the IEAB 2002 that would include the following:

Species name, smolt production #, operation cost per smolt, headquarters cost per smolt, capital cost per smolt, Average SAR, cost per harvestable adult. Direct financial value per harvestable adult and Cost to harvest value ratio.

Using these categories to determine cost to provide a harvested fish by species from hatchery programs in the basin is necessary information useful to the Council, public, tribes and agencies. When done on an annual basis the cost associated with the AP of anadromous fish by species would allow for accurate cost accounting of the AP in the Columbia River Basin.

On Mon, Mar 4, 2019 at 9:55 AM John Harrison <jharrison@nwcouncil.org> wrote:

Bill, I did not hear back from you Friday, but I want to follow up on your request about anadromous funding.

In the big spreadsheet I sent you, look at the number in Line 9, Column AO: \$4.3459 billion. That is the total Bonneville spent on fish and wildlife, not including capital, since 1978/80. Our program did not come along until November 1982.

Generally, we have tried to dedicate 70 percent of funding for anadromous fish over the years. In the last 10 years, for example, the low was 61 percent and the high was almost 73 percent. So we're close.

Seventy percent of \$4,345,900,000 is  $(4,345,900,000 \times .70)$  \$3,042,130,000. So about \$3 billion. That might be as close as we can get to the approximate amount spent by Bonneville on anadromous fish over time.

John

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

--

Bill Bakke



*"One lives with the ghosts of what was and the hunger for what could have been."*

**From:** John Harrison  
**Sent:** Wed Mar 27 16:15:24 2019  
**To:** Christine Read (cunread@bpa.gov)  
**Subject:** [EXTERNAL] For next year's report on Bonneville's fish and wildlife costs  
**Importance:** Normal

Hi, Chris:  
Jennifer Anders, our chair, sent me an email with the following:

- I have a few observations regarding the draft Governor's Report that is out for public comment.
- \* Page 12 lists costs associated with ESA listed fish. Do we have any information relating to costs of non-ESA listed fish?
  - \* Page 18 shows costs by sub-basin. It would be interesting to see this broken out into blocked areas versus non-blocked areas

Are these tables you could generate for next year's report? I thought I would give you a heads-up now rather than spring it on you next January or February!

John

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

**From:** John Harrison  
**Sent:** Fri Apr 05 13:20:41 2019  
**To:** Christine Read (cload@bpa.gov)  
**Subject:** [EXTERNAL] Help with some numbers  
**Importance:** Normal

Chris, in response to our request for comments on the draft annual report on fish and wildlife costs, Tom Iverson submitted some proposed edits. In the text below, black is my original and red is Tom. Do Tom's edits make sense to you?

Thanks,  
John

- \* Page 6: First paragraph under 2018 spill surcharge – “To make up for **projected** lost revenue, Bonneville ~~charged~~ **reduced** the **annual** fish and wildlife budget \$20 million.”
- \* Page 6: Third paragraph under 2018 spill surcharge – “The spill surcharge was **is** calculated independently for each year of the FY 2018-2019 rate period based on planned spill operations for each year. **For Fiscal Year 2018, the estimated cost for court ordered spill was \$38.6 million. To address this cost, in addition to secondary revenues and a \$10.1 million spill surcharge to customers, the** ~~The Fiscal Year 2018~~ fish and wildlife budget was reduced by \$20 million when compared to the rate case forecast, from \$277 million to \$256 million **for both Fiscal Years 2018 and 2019.** Actual direct spending in Fiscal Year 2018 was \$248 million. **It is not known if the spill surcharge will be necessary in Fiscal Year 2019, but the fish and wildlife budget reduction will remain.”**
- \* Page 6: Fourth paragraph under 2018 spill surcharge – “~~At the same time, though,~~ **In addition to the \$20 million annual budget reduction,** Bonneville changed the allocation of agency-wide overhead costs and assigned ~~more~~ **–an additional \$10 million –of internal costs** to **the** fish and wildlife **program.”**

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)

(b)(6)

**From:** John Harrison  
**Sent:** Mon Nov 19 10:08:12 2018  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Subject:** [EXTERNAL] Question about a costs table  
**Importance:** Normal

Sharon, Nancy Leonard on our fish and wildlife staff sent me an email with this question:

**Question:** in Figure 8 you provide cost by province, do you create this by summing cost by subbasins? If yes I would love to have the cost by subbasins for FY2017 and past years if you have that.

I don't know the answer so I thought I would ask you. How do you calculate the costs by province?

Thanks,

John

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

**From:** John Harrison  
**Sent:** Fri Sep 22 08:35:05 2017  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Subject:** [EXTERNAL] Question about a table  
**Importance:** Normal

Hi, Sharon:  
Don't worry, I'm not writing about next year's cost report!

You may have heard that Bonneville sent a comment on my draft report on fish and wildlife costs that said costs associated with two programs had been left out of the initial calculation inadvertently, and that these added to the total costs. Specifically, the comment, which regarded the percentage of costs attributable to fish and wildlife in the preference rate, was:

Unfortunately, the 25 percent figure excludes some fish costs contained in the O&M budgets of the Bureau of Reclamation and U.S. Army Corps of Engineers (\$55 million) along with additional depreciation and amortization above and beyond what is earmarked in the Cost of Service Analysis as fish-related (\$112 million). Omission of these costs led to an understatement by Bonneville, which made it into the Council's draft report.

Those two elements add \$167 million to the total. Would this have raised the total from \$621 million (Line 29 Column AL of the big spreadsheet you sent me initially) to (621 + 167) \$785 million? I wondered about that during the comment period, but because changing the total would have meant redoing nearly every figure and table in the report, I didn't make any changes – other than the language change Bonneville requested.

If in fact there is a new total (\$785 million), I'm writing to ask whether that has been captured in the spreadsheet. When I open my version, I'm prompted to update various things but, of course, I can't because I can't connect to Bonneville's internal system. If there is an updated version, could you send it to me for my files?

Thank you.

John

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John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

**From:** John Harrison  
**Sent:** Thu Sep 06 14:10:42 2018  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Subject:** [EXTERNAL] Question about some fish projects  
**Importance:** Normal  
**Attachments:** 9-Direct Expenditures by Location-State.xlsx

Hi, Sharon:

In the attached table, do you have a list, or do you know where I could find one, of all the projects in British Columbia?

Thanks,  
John

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

| <b>Direct Program Expenditures by State, FY2017</b>   |               |               |               |               |               |                         |               |
|---|---------------|---------------|---------------|---------------|---------------|-------------------------|---------------|
| Compiles program spending by Work Element location  |               |               |               |               |               |                         |               |
| <b>STATE</b>  | <b>2011</b>   | <b>2012</b>   | <b>2013</b>   | <b>2014</b>   | <b>2015</b>   | <b>2016<sup>3</sup></b> | <b>2017</b>   |
| Washington  | \$121,317,884 | \$115,404,913 | \$95,365,193  | \$86,071,758  | \$50,272,232  | \$89,322,441            | \$87,773,680  |
| Idaho   | \$50,870,890  | \$73,383,217  | \$61,857,476  | \$78,704,753  | \$48,248,817  | \$60,368,059            | \$60,017,984  |
| Oregon  | \$86,884,304  | \$85,320,690  | \$101,607,686 | \$61,266,093  | \$97,958,650  | \$93,424,732            | \$83,785,203  |
| Ocean   | \$3,598,371   | \$2,367,853   | \$89,410      | \$989,723     | \$938,156     | \$1,085,664             | \$1,031,552   |
| Montana   | \$17,984,028  | \$11,143,660  | \$7,215,356   | \$8,285,323   | \$5,345,069   | \$7,233,270             | \$4,883,261   |
| British Columbia  | \$1,610,361   | \$1,983,288   | \$2,042,752   | \$1,859,249   | \$1,991,758   | \$1,849,774             | \$2,000,200   |
| Nevada  | \$622,594     | \$883,615     | \$524,606     | \$494,000     | \$763,225     | \$642,383               | \$737,668     |
| Program Support/Admin/Overhead/Other <sup>2</sup>   | \$28,328,464  | \$15,922,536  | \$21,899,413  | \$31,463,211  | \$14,032,643  | \$20,245,851            | \$19,707,985  |
|   | \$311,214,895 | \$306,409,772 | \$291,101,892 | \$269,134,110 | \$279,350,549 | \$274,172,174           | \$259,957,538 |
| <b>Notes:</b>   |               |               |               |               |               |                         |               |
| 1) Starting in 2008, spending by state is tracked in PIs/ces based on where the contractor explicitly identified work location.   |               |               |               |               |               |                         |               |
| 2) Program Support/Admin/Other includes spending that cannot be traced back to a contract that has at least one work element requiring location; contracts without any work elements; program level spending not mapped to a specific project or NPCC province; and BPA Overhead. |               |               |               |               |               |                         |               |
| 3) FY2016 revised as of February 22, 2018.  |               |               |               |               |               |                         |               |

**From:** John Harrison  
**Sent:** Tue Apr 17 15:29:21 2018  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Subject:** [EXTERNAL] Questions  
**Importance:** Normal

Sharon:

I have two (so far) questions as I'm putting together the report.

I'm still hoping to get an explanation of the negative \$20 million in power purchases costs, and otherwise:

- Why is 2017 capital in spreadsheet 3, direct program expenditures of FCRPS BiOp projects, negative \$396,792?
- Could I get an explanation of the negative numbers under capital spending in spreadsheet 4, direct program expenditures on ESA-listed fish? Maybe it's the same explanation as for No.3?

John

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

**From:** John Harrison  
**Sent:** Mon Feb 25 14:12:14 2019  
**To:** Read,Christine L (BPA) - EWB-4  
**Subject:** [EXTERNAL] RE: 2018 Gov. Report  
**Importance:** Normal

Chris:  
Thanks for the note. I will use it with the appropriate tables.  
John

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

**From:** Read,Christine L (BPA) - EWB-4 <clread@bpa.gov>  
**Sent:** Monday, February 25, 2019 8:53 AM  
**To:** John Harrison <jharrison@nwcouncil.org>  
**Cc:** Read,Christine L (BPA) - EWB-4 <clread@bpa.gov>  
**Subject:** RE: 2018 Gov. Report

Hi John,  
Below is the language that my manager provided.

***In prior years, a portion of BPA agency G&A was allocated to F&W Overhead. Starting in FY2018, the agency G&A was calculated using a revised methodology and recognized as a distinct charge from the F&W program overhead. However, those charges are included in the 4h10c crediting as part of total F&W costs.***

***Similar to G&A, the CRSO EIS also has a portion included in the F&W total costs, but it is not directly part of the Integrated F&W program.***

Again, this will only be used on those charts that I have the G&A/CRSO EIS note:

2-Direct Program Expenditures by Species  
5-Direct Program Expenditures by Fund  
6a-Direct Program Expenditures by Category  
8-Direct Program Expenditures by Province  
9-Direct Program Expenditures by State  
10-Direct Program Expenditures by Contractor Type

**From:** John Harrison [mailto:jharrison@nwcouncil.org]  
**Sent:** Tuesday, February 19, 2019 12:59 PM  
**To:** Read,Christine L (BPA) - EWB-4  
**Subject:** [EXTERNAL] RE: 2018 Gov. Report

Oh, my. Well, thanks for the explanation. It makes sense, tracking where every dollar goes. I hope someone doesn't start turning off your overhead lights to save money!

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

**From:** Read,Christine L (BPA) - EWB-4 <clread@bpa.gov>  
**Sent:** Tuesday, February 19, 2019 11:49 AM  
**To:** John Harrison <jharrison@nwcouncil.org>  
**Subject:** RE: 2018 Gov. Report

The F&W costs would be all of our contracts + the F&W division staff (our pay, travel, training, etc.), environmental staff, land acquisitions.

G&A helps pay for legal, HR, electric bills, etc.

In years past, it was part of our Overhead. Starting in FY18, they separated it out of our program, but charged us in another way.

**From:** John Harrison [mailto:jharrison@nwcouncil.org]  
**Sent:** Tuesday, February 19, 2019 11:43 AM  
**To:** Read,Christine L (BPA) - EWB-4  
**Subject:** [EXTERNAL] RE: 2018 Gov. Report

OK, well, as highlighted below, "outside the F&W division," but it is included in F&W costs? Sorry, I'm confused. I hope you can straighten me out with the note you offered to write.  
John

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

**From:** Read,Christine L (BPA) - EWB-4 <clread@bpa.gov>  
**Sent:** Tuesday, February 19, 2019 11:40 AM  
**To:** John Harrison <jharrison@nwcouncil.org>; Eric Schrepel <eschrepel@nwcouncil.org>  
**Subject:** RE: 2018 Gov. Report

**G&A** expenses, part of a company's operating expenses, are the general and administrative expenses of a company. Generally accepted accounting principles consider operating expenses to be the day-to-day costs of running a business.

I don't have all the details, but I assume it is the costs associated with things like paying for HR, contracting services, legal, building costs, supplies, etc. Basically the portion of operating BPA outside the F&W division.

**From:** John Harrison [mailto:jharrison@nwcouncil.org]  
**Sent:** Tuesday, February 19, 2019 11:12 AM  
**To:** Read,Christine L (BPA) - EWB-4; Eric Schrepel  
**Subject:** [EXTERNAL] RE: 2018 Gov. Report

Thanks, Chris. I still don't understand the acronym G&A ...  
John

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

**From:** Read,Christine L (BPA) - EWB-4 <clread@bpa.gov>  
**Sent:** Tuesday, February 19, 2019 9:44 AM  
**To:** Eric Schrepel <eschrepel@nwcouncil.org>; John Harrison <jharrison@nwcouncil.org>  
**Subject:** RE: 2018 Gov. Report

Correct, sorry about that!

**From:** Eric Schrepel [mailto:eschrepel@nwcouncil.org]  
**Sent:** Tuesday, February 19, 2019 9:17 AM  
**To:** Read,Christine L (BPA) - EWB-4; John Harrison

**Subject:** [EXTERNAL] Re: 2018 Gov. Report

Thanks, presuming last figure s/b \$289.4?

---

**From:** Read,Christine L (BPA) - EWB-4 <clead@bpa.gov>

**Sent:** Tuesday, February 19, 2019 9:12 AM

**To:** John Harrison

**Cc:** Eric Schrepel

**Subject:** RE: 2018 Gov. Report

Hi John,

Basically, these are my #'s:

|   |                 |
|---|-----------------|
| Direct program                            | \$248M          |
| +Direct program (G&A)                     | \$10.4M         |
| +Direct program (CRSO EIS)                | \$0.3M          |
| <b>=Total Direct Program</b>              | <b>\$258.7M</b> |
| +Capital                                  | \$30.7M         |
| <b>=TOTAL program (Expense + Capital)</b> | <b>\$389.4</b>  |

**From:** John Harrison [mailto:jharrison@nwcouncil.org]

**Sent:** Friday, February 15, 2019 3:38 PM

**To:** Read,Christine L (BPA) - EWB-4

**Cc:** Eric Schrepel

**Subject:** [EXTERNAL] RE: 2018 Gov. Report

One other thought, Chris. Below you write: **The tables that show Total Spent will include the G&A/CRSO EIS values...**

Does this mean that in the attached table, which I call the Big Spreadsheet of total costs, the G&A and CRSO/EIS costs are included in the total Direct Program costs, line 9? Or are they separate and included in some other line item, like Associated Projects (Line 6)? Eric Schrepel, my colleague who designs our publications, asked me the following about how to report total costs:

- \* Total: \$278.7 million includes \$30.7 million in obligations to capital projects (this is what the spreadsheet shows (lines 9 and 4))

Or:

- \* Total: \$289.4 million includes \$30.7 million in obligations to capital projects, plus \$10.4 million for G&A and \$.3 million for CRSO/EIS (which will be defined)

I told him I would ask you, and also hope that the write-up you prepare for me will clarify this.

John

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

**From:** Read,Christine L (BPA) - EWB-4 <clread@bpa.gov>  
**Sent:** Thursday, February 14, 2019 3:08 PM  
**To:** John Harrison <jharrison@nwcouncil.org>; Read,Christine L (BPA) - EWB-4 <clread@bpa.gov>  
**Subject:** RE: 2018 Gov. Report

Sounds good. The 2 people I want to help me with it are out this week. I have scheduled time with them mid-next week.

**From:** John Harrison [mailto:jharrison@nwcouncil.org]  
**Sent:** Thursday, February 14, 2019 9:56 AM  
**To:** Read,Christine L (BPA) - EWB-4  
**Subject:** [EXTERNAL] RE: 2018 Gov. Report

Chris, I'm back in the office today and I just wanted to acknowledge the receipt of the spreadsheets (thank you!), and say I will hold off on working on the text of the new report until you send the write-up you describe below.  
John

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

**From:** Read,Christine L (BPA) - EWB-4 <clread@bpa.gov>  
**Sent:** Tuesday, February 12, 2019 5:27 PM  
**To:** John Harrison <jharrison@nwcouncil.org>  
**Cc:** Read,Christine L (BPA) - EWB-4 <clread@bpa.gov>  
**Subject:** 2018 Gov. Report

Hi John,

I hope you are doing well. I have for you the 2018 tables for the Gov Report.

There is one major change this year that I will try to explain, but I know I need to provide you a more "official" explanation that you can use in the document.

In the past, our F&W program consisted of all the contracts, land purchases, overhead (including staff, travel, G&A, etc). However, starting in FY18, our finance office adjusted the G&A portion and how they charged it to the different organizations (i.e. F&W division). Previously, it was a line item just like my salary, benefits and part of the overall capital/expense spending. Now they removed that payment from the F&W program, BUT they still include it as a fish cost in the 4(h)(10)(C) credit table. So, I was instructed to include it in our external reporting as well. So you will see in some areas that our Overhead decreased, but that G&A was recalculated and moved elsewhere (and costs a lot more based on what I see).

The same is true for the CRSO EIS line item. It is included in the 4(h)(10)(C) credit table, but not part of the F&W program spending.

The tables that show Total Spent will include the G&A/CRSO EIS values. The tables that just show how much was spent on a certain element (just RME for example) do not have those values added. I have an added note for those that it applies; I just don't have the write-up yet.

As for the tables, I just followed the tables used in last year's report. If you need additional tables, let me know!

Thanks, Chris

><((( ><((( ><(((

**Christine Read**

Program Analyst

BPA | F&W Division

[cread@bpa.gov](mailto:cread@bpa.gov)

(503) 230-5321

**From:** John Harrison  
**Sent:** Thu May 03 11:03:36 2018  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Cc:** Stacy Horton; Eric Schrepel  
**Subject:** [EXTERNAL] RE: A couple of requests  
**Importance:** Normal

Thank you so much, Sharon!  
I really appreciate how good you are, and your quick responses to my questions.  
I'm copying Eric, who puts the report together each year, and Stacy, who asked the questions.  
Again, thanks very much.

John

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

**From:** Grant, Sharon D (BPA) - EWU-4 [mailto:sdgrant@bpa.gov]  
**Sent:** Thursday, May 03, 2018 10:56 AM  
**To:** John Harrison <jharrison@nwcouncil.org>  
**Cc:** Read, Christine L (BPA) - EWB-4 <clread@bpa.gov>  
**Subject:** RE: A couple of requests

John,

I pulled up Table 3 and add 2006 through 2008. I'll let you in on a secret—I generally leave the previous years' information on the table, but hide the columns, so you can always check there when you want to see more. In this case, I only had back to 2008, so I went back and ran the report information for 2006 and 2007 and placed it on the table. I do not think going farther back would be that meaningful, as things were getting set up in Pisces around that time among other reasons (the apples and oranges scenario).

I will add to my notes for next year the request for a breakdown of the Programmatic costs for the RM &E report. In the meanwhile I added the list to the current RME report, and have included it here (second tab), in case you are interested.

Let me know if that's what you needed.

Sharon Grant  
Bonneville Power Administration

**From:** John Harrison [mailto:jharrison@nwcouncil.org]  
**Sent:** Wednesday, May 02, 2018 4:10 PM  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Subject:** [EXTERNAL] A couple of requests

Sharon:

Thanks again for the answers to our questions. As you might expect, these generated a couple of requests from Member Karier:

- You volunteered to send some more years' of BiOp costs (Figure and Table 3, "Costs of FCRPS BiOp Projects"). How about three more years for the Figure so we have basically 11 years (looks like 10), 2007 through 2017 (the figure and table currently start with 2010). And then as many years as you have available and are comfortable sharing for the table? I don't know how far back your reporting of these costs goes, and I know that it might be apples and oranges including some costs from years ago in the same table with current costs. So please resend the spreadsheet with as many years as you are comfortable sharing, and we will take care of the figure (10/11 years) and table (all years).
- Thanks for the definition of 'Programmatic' for Figure 7, Costs of Research, Monitoring and Evaluation. Because Programmatic is the largest piece of the pie (\$32 million, 39 percent), for *next year's* report would it be possible to list the projects that go into that calculation? I'll make a note or keep this email to remind myself to ask you then.

John

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)



---

**From:** John Harrison <jharrison@nwcouncil.org>  
**Sent:** Monday, March 05, 2018 10:23 AM  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Subject:** [EXTERNAL] RE: Annual report on fish and wildlife costs

Hi, Sharon:

I'm back, and you're about to leave. Regarding the contractor list, I've had no new requests from the Council, and if I do that won't happen until they see the new draft. So for now, let's stick with No. 1 of your two options, which is:

- 1) The list "by Contractor Type" which includes a list under each including 7 years tracking

Any update on the files?

John

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

---

**From:** Grant, Sharon D (BPA) - EWU-4 [<mailto:sdgrant@bpa.gov>]  
**Sent:** Friday, February 23, 2018 9:59 AM  
**To:** John Harrison <jharrison@nwcouncil.org>  
**Subject:** RE: Annual report on fish and wildlife costs

That sounds like a plan!

---

**From:** John Harrison [<mailto:jharrison@nwcouncil.org>]  
**Sent:** Friday, February 23, 2018 9:58 AM  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Subject:** [EXTERNAL] Re: Annual report on fish and wildlife costs

OK, Sharon. I'm on vacation until March 5 so we could talk when I get back and before you leave, OK?  
John

John Harrison (b)(6)

----- Original message -----

From: "Grant, Sharon D (BPA) - EWU-4" <[sdgrant@bpa.gov](mailto:sdgrant@bpa.gov)>  
Date: 2/22/18 4:32 PM (GMT-08:00)  
To: John Harrison <[jharrison@nwcouncil.org](mailto:jharrison@nwcouncil.org)>

Subject: FW: Annual report on fish and wildlife costs

Hi John,

I'm moving along on the tables for your annual report, and am wondering about the tables you will need (attached my list).

I saw an email dated June 2017 where we discussed something different than what I send last year for the Contractor list. I attached it here but can't remember if this is something different than the file I sent you last year (attached here as well). Is there something else I sent?

My biggest problem right now is the new Pisces (Web – cbfish.org) that still has a few quirks, like rounding to the dollar and arriving at an erroneous total. Such is life!! I have a couple of requests for updates, and then I'm going for broke next week. The plan is to at least have the files to Bryan Mercier by March 6 when I leave on vacation. I will ask his admin to forward you the files if I don't get them back before I return (March 20).

Hey, I even have my taxes ready for the Accountant now!

Sharon Grant  
Bonneville Power Administration  
503-230-5215

---

**From:** Grant, Sharon D (BPA) - EWU-4  
**Sent:** Thursday, January 18, 2018 9:13 AM  
**To:** 'John Harrison'  
**Subject:** RE: Annual report on fish and wildlife costs

Hi John,

Good question 😊

I have been thinking hard about it but am now just been able to see the possibility of allotting time. The other part is getting our software folks (for Pisces) to re-figure ESA-listed fish spending to NOT include de-listed fish, in this case Oregon Chub. Last year didn't go so good for that, but they promise to fix it by next month. Does early to mid-March work for you?

Let check in an a couple of weeks and see if there's anything different you need and how close I'm getting to the final product.

It's like taxes, once January 1 hits, you just can't get it off your mind!

Sharon Grant  
Bonneville Power Administration  
503-230-5215

---

**From:** John Harrison [<mailto:jharrison@nwcouncil.org>]  
**Sent:** Thursday, January 18, 2018 9:06 AM  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Subject:** [EXTERNAL] Annual report on fish and wildlife costs

Hi, Sharon:

It's that time again for me to ask you when you think you might have the numbers for the last fiscal year available for our annual report on fish and wildlife costs.

Cheers,

John

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

**From:** John Harrison  
**Sent:** Mon Mar 05 11:28:01 2018  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Subject:** [EXTERNAL] RE: Annual report on fish and wildlife costs  
**Importance:** Normal

OK, thanks Sharon. Have a nice time off.  
John

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

**From:** Grant, Sharon D (BPA) - EWU-4 [mailto:sdgrant@bpa.gov]  
**Sent:** Monday, March 05, 2018 10:40 AM  
**To:** John Harrison <jharrison@nwcouncil.org>  
**Subject:** RE: Annual report on fish and wildlife costs

John,

That sounds good. I will go with the usual plan on the "By Contractor" report.

I'm on tracking to give the set of reports to Bryan Mercier before I leave by COB tomorrow. I'll ask his assistant, Jennifer Yarman ( jayarman@bpa.gov), to forward them to you as soon as he reviews and accepts them. If not, I guess you may not get them until I return on the 20<sup>th</sup> (fingers crossed).

Hope you had a nice time away from the office!

Sharon Grant  
Bonneville Power Administration  
503-230-5215

**From:** John Harrison [mailto:jharrison@nwcouncil.org]  
**Sent:** Monday, March 05, 2018 10:23 AM  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Subject:** [EXTERNAL] RE: Annual report on fish and wildlife costs

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- 1) The list "by Contractor Type" which includes a list under each including 7 years tracking

Any update on the files?  
John

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

**From:** Grant, Sharon D (BPA) - EWU-4 [mailto:sdgrant@bpa.gov]  
**Sent:** Friday, February 23, 2018 9:59 AM  
**To:** John Harrison <jharrison@nwcouncil.org>  
**Subject:** RE: Annual report on fish and wildlife costs

That sounds like a plan!

**From:** John Harrison [mailto:jharrison@nwcouncil.org]  
**Sent:** Friday, February 23, 2018 9:58 AM  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Subject:** [EXTERNAL] Re: Annual report on fish and wildlife costs

OK, Sharon. I'm on vacation until March 5 so we could talk when I get back and before you leave, OK?  
John

John Harrison (b)(6)

----- Original message -----

From: "Grant, Sharon D (BPA) - EWU-4" <sdgrant@bpa.gov>  
Date: 2/22/18 4:32 PM (GMT-08:00)  
To: John Harrison <jharrison@nwcouncil.org>  
Subject: FW: Annual report on fish and wildlife costs

Hi John,

I'm moving along on the tables for your annual report, and am wondering about the tables you will need (attached my list).

I saw an email dated June 2017 where we discussed something different than what I send last year for the Contractor list. I attached it here but can't remember if this is something different than the file I sent

you last year (attached here as well). Is there something else I sent?

My biggest problem right now is the new Pisces (Web – cbfish.org) that still has a few quirks, like rounding to the dollar and arriving at an erroneous total. Such is life!! I have a couple of requests for updates, and then I'm going for broke next week. The plan is to at least have the files to Bryan Mercier by March 6 when I leave on vacation. I will ask his admin to forward you the files if I don't get them back before I return (March 20).

Hey, I even have my taxes ready for the Accountant now!

Sharon Grant  
Bonneville Power Administration  
503-230-5215

**From:** Grant, Sharon D (BPA) - EWU-4  
**Sent:** Thursday, January 18, 2018 9:13 AM  
**To:** 'John Harrison'  
**Subject:** RE: Annual report on fish and wildlife costs

Hi John,

Good question 😊

I have been thinking hard about it but am now just been able to see the possibility of allotting time. The other part is getting our software folks (for Pisces) to re-figure ESA-listed fish spending to NOT include de-listed fish, in this case Oregon Chub. Last year didn't go so good for that, but they promise to fix it by next month. Does early to mid-March work for you?

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It's like taxes, once January 1 hits, you just can't get it off your mind!

Sharon Grant  
Bonneville Power Administration  
503-230-5215

**From:** John Harrison [mailto:jharrison@nwcouncil.org]  
**Sent:** Thursday, January 18, 2018 9:06 AM  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Subject:** [EXTERNAL] Annual report on fish and wildlife costs

Hi, Sharon:  
It's that time again for me to ask you when you think you might have the numbers for the last fiscal year available for our annual report on fish and wildlife costs.  
Cheers,

John

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John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

**From:** John Harrison  
**Sent:** Thu Mar 28 13:25:39 2019  
**To:** Read,Christine L (BPA) - EWB-4  
**Cc:** Jennifer Anders; Stacy Horton  
**Subject:** [EXTERNAL] RE: For next year's report on Bonneville's fish and wildlife costs  
**Importance:** Normal

Thank you for the explanation, Chris.

I admit to being a little confused. Does Table 1 just arbitrarily split the total contract between the two species – or evenly between all species when a contract specifies, say, three or more? And in Table 2, isn't the amount spent on a listed species arbitrarily inflated by the money spent on a non-listed species, if any, in the same contract? Or, does Table 2 assume all of the contract money is spent on coho and none on rainbows, even though the contract specifies two species?

I am forwarding your email to Jennifer and also to Stacy Horton, who follows this report, as you know, quite closely. If we do decide to go with Table One, we would need a footnote explaining why the ESA numbers reported in 2020 are different than in earlier reports, and how the money is split between listed and non-listed species.

As for subbasins and blocked vs. non-blocked, I think this could be problematic. We could distinguish between subbasins that are clearly in blocked areas, such as the Spokane, and those that are not, such as the Wenatchee (at least I think there are no blocks there). But some subbasins have both blocked and unblocked areas (and both anadromous and resident fish) – the Willamette, for example. So we would have to figure out how much money is going to both areas within a subbasin for those subbasins that have both blocked and unblocked areas. I wonder if that is even possible. OK, well, maybe if we had the lat/long for every project, and the lat/long of all the blocks in subbasins that have them, and if we could look at GPS maps of each subbasin that has blocked and unblocked areas, we could figure out if money for each project is going above or below the blocks. But then there are other problems, I sense – in your ESA example below, for example, some of the rainbow money could be for fish above a block and some for fish below, as rainbows might be present in both areas. Again, think of the Willamette.

Oh, my. I'm probably making this too complicated.

Well, for now I am going to forward your email to Jennifer and Stacy for their thoughts. At any rate, this would not be for this year!

John

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)

(b)(6) (cell)

**From:** Read,Christine L (BPA) - EWB-4 <clread@bpa.gov>  
**Sent:** Thursday, March 28, 2019 8:55 AM  
**To:** John Harrison <jharrison@nwcouncil.org>  
**Cc:** Read,Christine L (BPA) - EWB-4 <clread@bpa.gov>  
**Subject:** RE: For next year's report on Bonneville's fish and wildlife costs

Hi John,

I'll try to explain the best I can.

**Page 12 - ESA listed fish:**

The link below is where I get my ESA data. There are 2 tables. Table 1 is "Spending on All Focal Species" and Table 2 is "Spending on ESA-Listed Fish Species". I have been using Table 2 in the Governor's report.

Here is how the tables work:

Contract spends \$100 and has 2 species designated: Coho (threatened) and Rainbow Trout (non-listed). Here is how the \$100 gets distributed in each report:

|               | <b>Table 1</b> | <b>Table 2</b> |
|---------------|----------------|----------------|
| Coho          | \$50           | \$100          |
| Rainbow Trout | \$50           | \$0            |
| <b>TOTAL</b>  | <b>\$100</b>   | <b>\$100</b>   |

As I said, I've been using table 2 which gives all the credit to the listed species. I can switch to table 1, but it would then show lesser values (at the listed species level) than previously reported (the total is the same; it is just how things are peanut buttered between species). So we just need to be careful. If Jennifer is just interested, but it doesn't need to be in the report, she can view that information at any time with the link below (currently set for 2018 data).

<https://www.cbfish.org/Reports/ReportViewer.aspx?RptName=SpendingOnFocalSpecies&rs%3AFormat=PDF&psFiscalYear=2018&psAccountType=All>

**Page 18 – blocked vs. non-blocked**

At this time, we do not have any criteria in the system to differentiate between blocked & non-blocked. So, either we would need an enhancement, do nothing or work with the information we have (subbasin location?). I'm not very familiar with sub-basins and if they correlate to blocked vs. non-blocked. Do you have anyone there that knows?

Thanks, Chris

**From:** John Harrison [mailto:jharrison@nwcouncil.org]

**Sent:** Wednesday, March 27, 2019 4:15 PM

**To:** Read, Christine L (BPA) - EWB-4

**Subject:** [EXTERNAL] For next year's report on Bonneville's fish and wildlife costs

Hi, Chris:

Jennifer Anders, our chair, sent me an email with the following:

- I have a few observations regarding the draft Governor's Report that is out for public comment.
- \* Page 12 lists costs associated with ESA listed fish. Do we have any information relating to costs of non-ESA listed fish?
  - \* Page 18 shows costs by sub-basin. It would be interesting to see this broken out into blocked areas versus non-blocked areas

Are these tables you could generate for next year's report? I thought I would give you a heads-up now rather than spring it on you next January or February!

John

---

John Harrison

Information Officer

Northwest Power and Conservation Council

503-222-5161 (office)

(b)(6) (cell)

**From:** John Harrison  
**Sent:** Thu Mar 28 14:26:02 2019  
**To:** Read,Christine L (BPA) - EWB-4  
**Subject:** [EXTERNAL] RE: For next year's report on Bonneville's fish and wildlife costs  
**Importance:** Normal

Thanks, Chris. Nope, did not read the report, but I will.  
I'm sorry to bug you so often with questions, but I really appreciate your patience with me.

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

**From:** Read,Christine L (BPA) - EWB-4 <clread@bpa.gov>  
**Sent:** Thursday, March 28, 2019 1:38 PM  
**To:** John Harrison <jharrison@nwcouncil.org>  
**Cc:** Jennifer Anders <JAnders@NWCouncil.org>; Stacy Horton <SHorton@NWCouncil.org>  
**Subject:** RE: For next year's report on Bonneville's fish and wildlife costs

Hi John & others.

I really simplified the math for the ESA report. The value and how it is split is based on the Work Element budget. There is a detailed, yet complex explanation on page 1 of the report that describes how the \$ is divided up. Have you had a chance to read that? Either it will all make sense or you may fall asleep ☺

As for blocked vs. non-blocked, I really don't know the answer. And yes, it all gets complicated! If you start using lat/long, you will run into similar situations as above.

**From:** John Harrison [mailto:jharrison@nwcouncil.org]  
**Sent:** Thursday, March 28, 2019 1:26 PM  
**To:** Read,Christine L (BPA) - EWB-4  
**Cc:** Jennifer Anders; Stacy Horton  
**Subject:** [EXTERNAL] RE: For next year's report on Bonneville's fish and wildlife costs

Thank you for the explanation, Chris.

I admit to being a little confused. Does Table 1 just arbitrarily split the total contract between the two species (no, it pro-rates based on the WE budget)—or evenly between all

species when a contract specifies, say, three or more? And in Table 2, isn't the amount spent on a listed species arbitrarily inflated by the money spent on a non-listed species, if any, in the same contract? Or, does Table 2 assume all of the contract money is spent on coho and none on rainbows, even though the contract specifies two species? **It is just a way of looking at it differently.**

I am forwarding your email to Jennifer and also to Stacy Horton, who follows this report, as you know, quite closely. If we do decide to go with Table One, we would need a footnote explaining why the ESA numbers reported in 2020 are different than in earlier reports, and how the money is split between listed and non-listed species.

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Northwest Power and Conservation Council  
503-222-5161 (office)  
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**Sent:** Thursday, March 28, 2019 8:55 AM  
**To:** John Harrison <jharrison@nwcouncil.org>  
**Cc:** Read,Christine L (BPA) - EWB-4 <clread@bpa.gov>  
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**Page 18 – blocked vs. non-blocked**

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Thanks, Chris

**From:** John Harrison [mailto:jharrison@nwcouncil.org]

**Sent:** Wednesday, March 27, 2019 4:15 PM

**To:** Read,Christine L (BPA) - EWB-4

**Subject:** [EXTERNAL] For next year's report on Bonneville's fish and wildlife costs

Hi, Chris:

Jennifer Anders, our chair, sent me an email with the following:

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John

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John Harrison

Information Officer

Northwest Power and Conservation Council

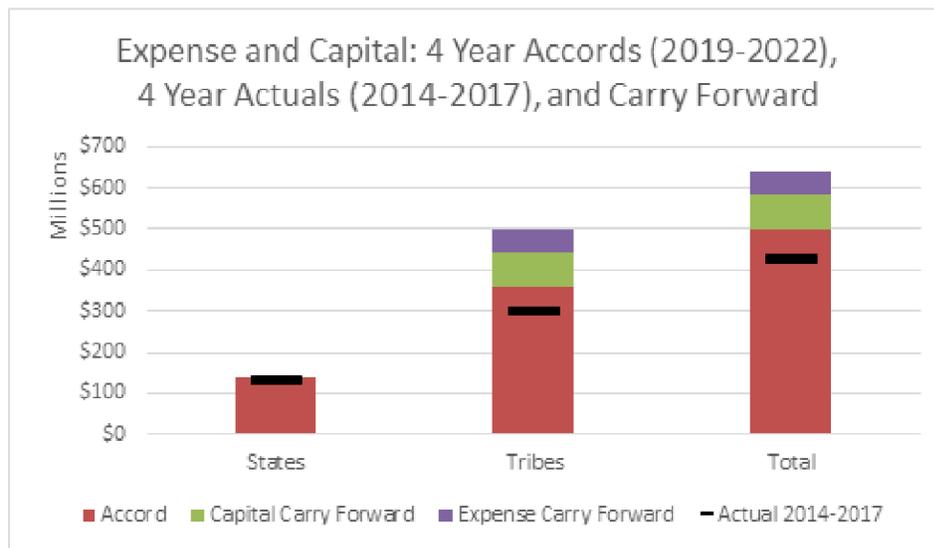
503-222-5161 (office)

(b)(6) (cell)

**From:** Tom Karier  
**Sent:** Tue Oct 16 15:42:28 2018  
**To:** Cogswell, Peter - DKR-7  
**Cc:** Guy Norman; Stacy Horton; Read, Christine L (BPA) - EWB-4 (clread@bpa.gov)  
**Subject:** [EXTERNAL] RE: F&W Budget Trends  
**Importance:** Normal  
**Attachments:** image001.png; image002.jpg; image003.jpg; image004.jpg; image005.jpg; image006.jpg; image007.jpg; image008.png; image011.png

Peter,

Thanks to Bryan and Christine I have received data from BPA to explore the question of whether total spending (capital and expense) is likely to be higher or lower during the next four years under the new Accords (2019-2022) in comparison to actual spending by the same partners during the previous four years (2014-2017). Although actual spending might decrease it seems unlikely. And even if spending was lower, that would only result in even larger carry forwards which already amount to \$140 million (capital and expense). Let me know if you see any mistakes. All this leads to another question, if spending increases for the Accord parties, how will that effect BPA's cost situation?



Sources, Council's Governor's report, BPA's Accords, correspondence with BPA.

**From:** Tom Karier  
**Sent:** Friday, October 05, 2018 2:35 PM  
**To:** Mercier, Bryan K (BPA) - EWB-4 <bkmmercier@bpa.gov>  
**Cc:** Cogswell, Peter - DKR-7 <ptcogswell@bpa.gov>; Guy Norman <gnorman@nwcouncil.org>; Horton, Stacy (SHorton@NWCouncil.org) <SHorton@NWCouncil.org>  
**Subject:** F&W Budget Trends

Bryan,

In the big picture, I am looking for... "whatever accounts you used to determine whether budgets increased or decreased for specific entities?"

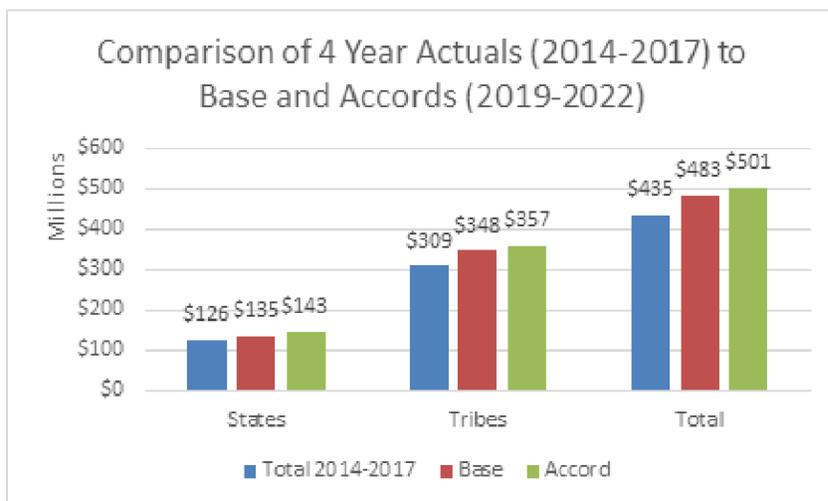
I understood your email to say that the data is all in the Accord budgets. The Accords provide a base

value which I assumed was what budgets would be if the 10 year accords were to continue another 4 years. Since there was no explicit base budget for capital in the Accords I assumed that it was zero. This could be the case if \$84 million in capital carryover is sufficient for future obligations. If the capital base budget is nonzero then it should be added to the expense base budget but again I did not see that in the Accords.

Any increase or decrease in budgets have to consider expense and capital, therefore the Accord budgets in the figure represent expense and capital obligations for the four years 2019-2022. Although capital doesn't have an immediate rate impact it does have a future rate impact. In fact if BPA's interest rate and discount rate are equal, a dollar of capital to be paid in the future is equivalent to the rate impact of a dollar of expense paid today. For this reason, I believe capital and expense budgets can be added together.

Another way to look at whether costs are increasing or decreasing is to consider whether BPA is expected to spend less under the Accords in the next four years as they spent in the last four years. For this purpose I added together the past four years of spending, 2014-2017, from the Governors report for each of the Accord parties and including capital and expense which is included in the figure below. This may not fully represent the rate impact that is incurred each year if there was a change in the carryover fund from one year to the next. To fully account for the actual rate impact it would be useful to include the net change in carryover obligations (carryover fund at the end of the year less the carryover fund at the beginning of the year) that was incurred in a particular year. For example if carryover increased in 2014 that should be included as a cost incurred that year.

I hope that explains the calculations. If you have additional information about base values for capital budgets or carryover budgets by entity from year to year that would be helpful. I'm not sure I have ever seen the total amount of expense carryover that is currently on BPA's books but that would be interesting. I'm also not sure if or how the North Idaho wildlife settlement is included as a cost in these accounts but it seems like it should be. Let me know if you see any other issues or if you have a better way to track increases and decreases in total budgets for specific entities. Thanks.



Total 2014-2017. Source: Governors Cost Report. Actual capital and expense.

Base: Source: 2018 Accords. Expense base value with the capital base value assumed to be zero.

Accord: Source: 2018 accords, expense and capital.

**From:** Mercier, Bryan K (BPA) - EW-4 [mailto:bkmercier@bpa.gov]

**Sent:** Thursday, October 04, 2018 10:41 AM

**To:** Tom Karier <tkarier@nwcouncil.org>; Cogswell,Peter (BPA) - E-4 <ptcogswell@bpa.gov>  
**Cc:** Guy Norman <GNorman@NWCouncil.org>; Stacy Horton <SHorton@NWCouncil.org>  
**Subject:** RE: Performance Standards for Fish and Wildlife Contracts

If I'm understanding correctly, you assume that four years of the baseline number (ie, baseline x 4) as the base budget (ie, blue bar). I'm not sure what scenario this reflects. Is this intended to represent a no Accord scenario? Or status quo?

Further, I don't understand how you've gotten to the orange bar, because the budgets are reduced, but are somehow reflected here as an increase. Does it include capital and expense? Just from attachment A? cbfish.org?

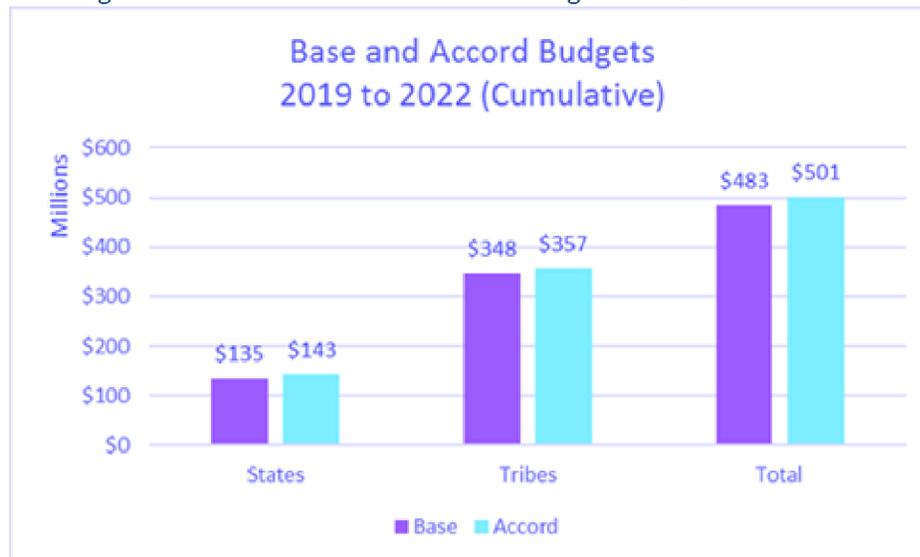
Without the underlying data, I can't validate its accuracy. However, it doesn't look right at first glance. It seems that either the blue or orange have difference inputs/assumptions.

Bryan K Mercier  
503.230.3991



**From:** Tom Karier [mailto:tkarier@nwcouncil.org]  
**Sent:** Wednesday, October 03, 2018 1:45 PM  
**To:** Mercier,Bryan K (BPA) - EW-4; Cogswell,Peter (BPA) - E-4  
**Cc:** Guy Norman; Stacy Horton  
**Subject:** [EXTERNAL] RE: Performance Standards for Fish and Wildlife Contracts

Thanks Bryan. I'm always looking for the right numbers. I compared four years of the base budget to the budgets in the accord and found the following results. Let me know if I'm missing anything.



**From:** Mercier,Bryan K (BPA) - EW-4 [mailto:bkmercier@bpa.gov]  
**Sent:** Wednesday, October 03, 2018 9:24 AM  
**To:** Tom Karier <tkarier@nwcouncil.org>; Cogswell,Peter (BPA) - E-4 <ptcogswell@bpa.gov>  
**Cc:** Guy Norman <GNorman@NWCouncil.org>; Stacy Horton <SHorton@NWCouncil.org>  
**Subject:** RE: Performance Standards for Fish and Wildlife Contracts

The data is on Attachment A of each Agreement. Attachment A shows which projects were reduced. You can find the agreements here:

<https://www.bpa.gov/PublicInvolvement/Cal/Pages/Proposed-Columbia-Basin-Fish-Accords-extensions---August-2018.aspx>

The data comes from cbfish.org.

Bryan K Mercier

503.230.3991



**From:** Tom Karier [mailto:tkarier@nwcouncil.org]

**Sent:** Wednesday, October 03, 2018 9:20 AM

**To:** Mercier, Bryan K (BPA) - EW-4; Cogswell, Peter (BPA) - E-4

**Cc:** Guy Norman; Stacy Horton

**Subject:** [EXTERNAL] RE: Performance Standards for Fish and Wildlife Contracts

Brian,

That all makes sense hence my first question, can you send me “whatever accounts you used to determine whether budgets increased or decreased for specific entities?” If you could send that before we meet next week I would like to look it over so I have better questions. Thanks.

According to your ROD:

“...the agency has negotiated level-to-decreasing budgets.”

**From:** Mercier, Bryan K (BPA) - EW-4 [mailto:bkmercier@bpa.gov]

**Sent:** Tuesday, October 02, 2018 2:35 PM

**To:** Tom Karier <tkarier@nwcouncil.org>; Cogswell, Peter (BPA) - E-4 <ptcogswell@bpa.gov>

**Cc:** Guy Norman <GNorman@NWCouncil.org>; Stacy Horton <SHorton@NWCouncil.org>

**Subject:** RE: Performance Standards for Fish and Wildlife Contracts

We'll find some time on Tuesday.

To your question, Tom, re: budget to actuals, there are many factors that would cause the deviation, including weather, permitting, landowner willingness, etc. The magnitude is constrained by the 120% cap on budgets for Accord partners, but they also don't have the “use or lose” incentive of Bonneville funds, since they can carry any underspending forward. In other words, it's difficult and nuanced to compare budgets to actuals across Accord and non-Accord parties.

Talk to you next week.

Best,

bkm

Bryan K Mercier

503.230.3991



**From:** Tom Karier [mailto:tkarier@nwcouncil.org]

**Sent:** Tuesday, October 02, 2018 2:03 PM

**To:** Cogswell, Peter (BPA) - E-4; Mercier, Bryan K (BPA) - EW-4  
**Cc:** Guy Norman; Stacy Horton  
**Subject:** [EXTERNAL] RE: Performance Standards for Fish and Wildlife Contracts

Bryan and Peter,

I am available whenever you wish to discuss both topics, performance standards and accord budgets. Thanks.

And Bryan, whatever accounts you used to determine whether funding increased or decreased for specific entities should be sufficient. If you can share that, you don't need to do any additional work for me.

I can also see why actuals would tend to fall below budgets due to underspending but would also tend to be higher due to carryover from previous years. How much actuals deviate from budgets should depend on the magnitude of these two factors in any given year. Is that about right?

Thanks.

**From:** Cogswell, Peter (BPA) - E-4 [mailto:ptcogswell@bpa.gov]  
**Sent:** Tuesday, October 02, 2018 12:59 PM  
**To:** Tom Karier <tkarier@nwcouncil.org>  
**Cc:** Guy Norman <GNorman@NWCouncil.org>  
**Subject:** RE: Performance Standards for Fish and Wildlife Contracts

Hey, let's try to grab a few minutes next week and discuss all of this. Also can loop in Bryan on the other email you sent – I think he is going to get you a high level answer on some of Stacy's initial analysis.

To be honest, with the accords and everything else, I have not been tracking the performance standard stuff very closely.

**From:** Tom Karier <tkarier@nwcouncil.org>  
**Sent:** Wednesday, September 19, 2018 2:25 PM  
**To:** Cogswell, Peter (BPA) - E-4 <ptcogswell@bpa.gov>  
**Cc:** Mercier, Bryan K (BPA) - EW-4 <bkmercier@bpa.gov>; Mainzer, Elliot E (BPA) - A-7 <eemainzer@bpa.gov>; Guy Norman <GNorman@NWCouncil.org>; Stacy Horton <SHorton@NWCouncil.org>  
**Subject:** RE: Performance Standards for Fish and Wildlife Contracts

Peter,

Since I first asked to see evidence of performance standards in BPA fish and wildlife contracts back in March 2018, many things have changed at BPA, not the least of which is that you replaced Lorrie as VP. The importance of project performance has only increased over time and I wonder what the status is of this work. Thanks.

**From:** Tom Karier  
**Sent:** Monday, April 30, 2018 12:05 PM

**To:** 'Bodi,Lorri (BPA) - E-4' <florrainebodi@bpa.gov>  
**Cc:** 'Mercier,Bryan K (BPA) - EW-4' <bkmercier@bpa.gov>; 'Mainzer,Elliot E (BPA) - A-7' <eemainzer@bpa.gov>; 'Cogswell,Peter (BPA) - DI-7' <ptcogswell@bpa.gov>  
**Subject:** Performance Standards for Fish and Wildlife Contracts

Lorri,

Let me say again that I am glad you are including performance measures in your contracts. However, over a month has passed and I haven't seen any performance goals for any contracts. I look forward to reviewing these as they are developed.

Let me add a second request. Bonneville provides tens of millions of dollars every year simply for monitoring fish and habitat. Could you please provide me with a list of all the monitoring you are currently funding (what, where, when...) and at what cost. It would also help if you have a link for each project so that we can review the results. Thank you.

**From:** Tom Karier

**Sent:** Wednesday, March 21, 2018 9:50 AM

**To:** 'Bodi,Lorri (BPA) - E-4' <florrainebodi@bpa.gov>

**Cc:** Mercier,Bryan K (BPA) - EW-4 <bkmercier@bpa.gov>; Mainzer,Elliot E (BPA) - A-7 <eemainzer@bpa.gov>; Cogswell,Peter (BPA) - DI-7 <ptcogswell@bpa.gov>

**Subject:** RE: Performance Standards for Fish and Wildlife Contracts

Lorri,

That is certainly good news that you plan to incorporate performance measures in your fish and wildlife contracts. Because there are so many contracts I don't want you to provide more information than I need. I am only looking for the project and contract number, financial amount, performance standards, and reporting obligation. It might be more efficient to bundle them up into periodic summaries. Thanks again and I look forward to reviewing this important work.

**From:** Bodi,Lorri (BPA) - E-4 [

mailto:florrainebodi@bpa.gov]

**Sent:** Tuesday, March 20, 2018 11:42 AM

**To:** Tom Karier <tkarier@nwcouncil.org>

**Cc:** Mercier,Bryan K (BPA) - EW-4 <bkmercier@bpa.gov>; Mainzer,Elliot E (BPA) - A-7 <eemainzer@bpa.gov>; Cogswell,Peter (BPA) - DI-7 <ptcogswell@bpa.gov>

**Subject:** RE: Performance Standards for Fish and Wildlife Contracts

Thanks Tom. As you know from past conversations, I'm personally committed to using a performance-based approach throughout BPA's Fish and Wildlife Program. Likewise, Elliot has made it clear in the new strategic plan that we are going to prioritize fish and wildlife investments based on biological effectiveness, which also necessitates a results driven, performance-based approach to managing the program moving forward. As you know, it's not always easy to do this everywhere at once in a program as large as ours, but we've definitely been improving over time. The lamprey projects are a good example – the work elements and actions are all connected into the upper basin Lamprey Master Plan and its objectives.

As part of our asset management reviews with the Council, and in our internal review of the LSRCP, we are also reviewing (and updating) hatchery production objectives and seeking cost effectiveness. For example, we have been leading the examination and implementation of circular tanks and water

re-use. The recent updates to the 25 year old Spokane Tribal Hatchery are another good case in point.

Please keep reminding us about a focus on performance. It helps keep us on track and reminds other stakeholders and partners that we intend to continue moving toward a more performance-oriented approach.

Regards,  
Lorri

**From:** Tom Karier [mailto:tkarier@nwcouncil.org]

**Sent:** Tuesday, March 20, 2018 8:54 AM

**To:** Bodi,Lorri (BPA) - E-4 <florrainebodi@bpa.gov>

**Cc:** Mercier,Bryan K (BPA) - EW-4 <bkmercier@bpa.gov>; Mainzer,Elliot E (BPA) - A-7 <eemainzer@bpa.gov>; Cogswell,Peter (BPA) - DI-7 <ptcogswell@bpa.gov>

**Subject:** [EXTERNAL] Performance Standards for Fish and Wildlife Contracts

Dear Lorri,

I would like to submit my own recommendations regarding new contracts for several fish projects including Pacific Lamprey Conservation (#2017-005-00) and several projects addressing maintenance for fish screens and hatcheries. My understanding is that BPA plans to fund all of these projects from previously identified cost savings up to a total of \$1,335,065.

These are good projects supported by the Council. While each project has the potential to improve the habitat and abundance of fish in the region, Bonneville should ensure success by including a performance goal in every contract.

On-the-ground projects should have clear outcomes that align with work elements. And on-the-ground contracts or group of contracts that have not been evaluated should be linked to research or monitoring that will confirm the value of the investment.

For example, if current lamprey passage success is 45 to 50 percent and a vertical wetted wall is installed for lamprey passage, what is the expected passage rate after installation? A contract to build this wall should specify the expected performance outcome for passage survival and a separate contract should ensure that measurements are made and performance goals are achieved.

Another example involves hatcheries. The purpose of hatcheries is to provide adults for harvest, broodstock, and sometimes, natural spawning. These purposes translate into performance metrics which are identified in the Council's fish and wildlife program (p. 33). All hatchery contracts, new or revised, should contain performance goals based on these metrics as well as reporting schedules.

I appreciate Bonneville's interest in improving the efficiency and outcomes of the fish and wildlife program and encourage you to use performance goals as a contracting tool. Explicit performance goals should also reduce the confusion expressed by many project managers about what Bonneville expects from their projects.

I also ask for you to please provide me with a summary of all performance goals that you include in these new contracts as well as all other contracts as they are renewed. Please let me know if you have any questions.

Best Wishes,  
Tom Karier

**From:** John Harrison  
**Sent:** Tue Apr 09 08:25:41 2019  
**To:** Read,Christine L (BPA) - EWB-4  
**Subject:** [EXTERNAL] RE: Help with some numbers - need review/concurrence from senior mgmt on Gov Report language  
**Importance:** Normal

OK, thanks, Chris!  
John

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

**From:** Read,Christine L (BPA) – EWB-4 <clread@bpa.gov>  
**Sent:** Tuesday, April 09, 2019 7:27 AM  
**To:** John Harrison <jharrison@nwcouncil.org>  
**Cc:** Read,Christine L (BPA) – EWB-4 <clread@bpa.gov>  
**Subject:** FW: Help with some numbers – need review/concurrence from senior gmt. on Gov Report language

Hi John,  
BPA reviewed the wording below and added a few items (in blue & orange).  
Otherwise, the corrections in red work for us.

Thanks, Chris!

**From:** John Harrison [mailto:jharrison@nwcouncil.org]  
**Sent:** Friday, April 05, 2019 1:21 PM  
**To:** Read,Christine L (BPA) - EWB-4  
**Subject:** [EXTERNAL] Help with some numbers

Chris, in response to our request for comments on the draft annual report on fish and wildlife costs, Tom Iverson submitted some proposed edits. In the text below, black is my original and red is Tom. Do Tom's edits make sense to you?

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- \* Page 6: First paragraph under 2018 spill surcharge – “To make up for **projected** lost revenue, Bonneville ~~charged~~ **reduced** the **annual** fish and wildlife budget \$20 million.”
- \* Page 6: Third paragraph under 2018 spill surcharge – “The spill surcharge ~~was~~ **is** calculated independently for each year of the FY 2018-2019 rate period based on planned spill operations for each year. **For Fiscal Year 2018, the estimated cost for court ordered spill was \$38.6**

million. To address this cost, in addition to secondary revenues and a \$10.1 million spill surcharge to customers, the ~~The Fiscal Year 2018~~ fish and wildlife budget was reduced by \$20 million when compared to the rate case forecast, from \$277 million to \$256 million for Fiscal Year 2018. Actual direct spending in Fiscal Year 2018 was \$248 million. BPA has proposed there will be no spill surcharge for Fiscal Year 2019. The additional cost of spill will be offset through fish and wildlife program reductions in Fiscal Year 2019 compared to those assumed for setting rates.” ~~It is not known if the spill surcharge will be necessary in Fiscal Year 2019, but the fish and wildlife budget reduction will remain.”~~

- \* Page 6: Fourth paragraph under 2018 spill surcharge – “~~At the same time, though,~~ In addition to the \$20 million annual budget reduction, Bonneville changed the allocation methodology for of agency-wide overhead costs in FY18 and assigned more—an additional \$10 million —of internal costs to the fish and wildlife program, a net increase of approximately \$6M in overhead costs but which is also partially offset by an increase in the 4h10c credit calculation.”

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

---

**From:** John Harrison <jharrison@nwcouncil.org>  
**Sent:** Friday, October 18, 2019 1:33 PM  
**To:** Read,Christine L (BPA) - EWB-4  
**Subject:** [EXTERNAL] RE: Gov Report for FY19  
**Attachments:** BP20Infographic.pptx

Great news, Chris, and it is a pleasure to be working with you on this again!

I don't expect any changes from last year, but I haven't talked to anyone about it yet. So for now, I think you could just proceed with the same set of spreadsheets we used last year.

Have a look at the attached PPT, which Peter Cogswell sent to us in July. Are the numbers still accurate? I think it would be good to use at least one of the graphics in our next report. While I like the dollar bill graphics (slides 1 and 2) I don't think they are quite right for a report on fish and wildlife costs, as there are slices for the residential exchange, transmission, rate discounts, conservation, generation inputs, tier 1 and tier 2, and so on. You and I understand those terms, but they would need explanation in a report for the general public, I think. However, slides 3 and 4 are more on point for our report, particularly slide 3. While there are some terms that would need explanation, overall it is less complex.

So ... I'd be happy to use slide 3, but I would need to know if the numbers are still accurate – I see the reference is to BP20, so maybe the slide is OK to use as-is. Let me know.

I'm glad to see you are on this and the numbers firmed up so soon. Typically, it's January, and so this is good news.

Thanks!

John

---

**From:** Read,Christine L (BPA) - EWB-4 <[clread@bpa.gov](mailto:clread@bpa.gov)>  
**Sent:** Friday, October 18, 2019 12:57 PM  
**To:** John Harrison <[jharrison@nwcouncil.org](mailto:jharrison@nwcouncil.org)>  
**Subject:** Gov Report for FY19

Hi John,

I hope you are doing well. I believe our FY19 financials are audited, so I can start on the Governors report. Are any changes needed from last year format?

Thanks so much!

Chris

><((( )))> ><((( )))> ><((( )))>

**Christine Read**  
Program Analyst  
BPA | F&W Division  
[clread@bpa.gov](mailto:clread@bpa.gov)  
(503) 230-5321

**How Bonneville spends a dollar of its power revenue**

**O&M (24 cents)**  
 Operation and maintenance costs at the hydro projects and Columbia Generating Station

**Debt (24 cents)**  
 Principle & interest on Federal and non-Federal debt

**Fish & Wildlife (17 cents)**  
 Principle & interest on debt plus, expense costs, and people (24 cents when the cost of lost inventory is included that results from spill to support fish & wildlife)

**Residential Exchange (9 cents)**  
 Payments to consumers served by higher-cost Investor- & Consumer-Owned Utilities

**Conservation (7 cents)**  
 Principle & interest on debt, expense costs, people, and Energy Efficiency Incentive



**BPA People (5 cents)**  
 Salaries, benefits, and supplies for power and corporate employees not supporting conservation and fish & wildlife

**Power Purchases (5 cents)**  
 System augmentation, balancing purchases, renewable purchases, long-term contract, and risk mitigation

**Transmission (4 cents)**  
 Resource integration costs and cost to deliver secondary energy to customers

**Transfer (3 cents)**  
 Cost to deliver power to customers not directly connected to Bonneville's transmission system

**Rate Discounts (2 cents)**  
 Discount provided to customers with low system densities and to customers with eligible irrigation load

### Source of Bonneville's power revenue

**Tier 1 Priority Firm (78 cents)**  
Revenue from the sale of power at Tier 1 rates to Public Utility Districts, Co-ops, Municipalities, Federal agencies, & Tribal utilities

**Secondary (12 cents)**  
Revenue from the sale of surplus power at negotiated rates

**Generation Inputs (4 cents)**  
Revenue from using generation to support reliable transmission service

**4(h)(10)(C) (3 cents)**  
Revenue credit from US Taxpayer to pay for a portion of fish & wildlife costs

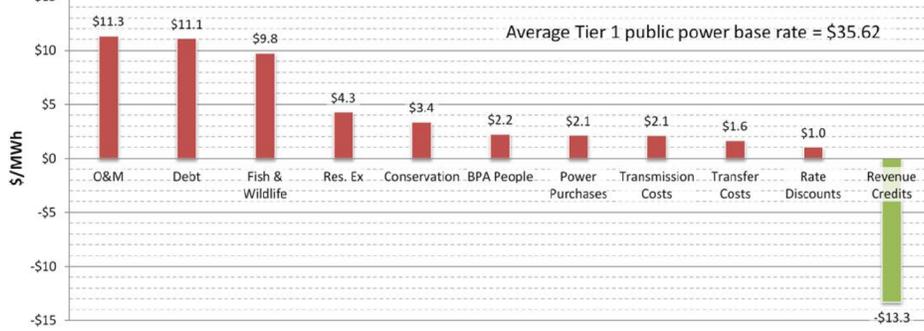
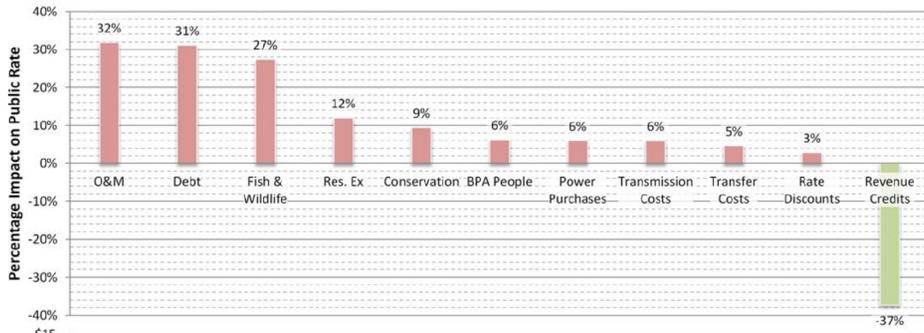


**Miscellaneous (2 cents)**  
Revenue from long-term contracts, downstream benefits and firm surplus sales

**Tier 2 Priority Firm (1 cent)**  
Revenue from the sale of power at Tier 2 rates to Public Utility Districts, Co-ops, Municipalities, Federal agencies, & Tribal utilities

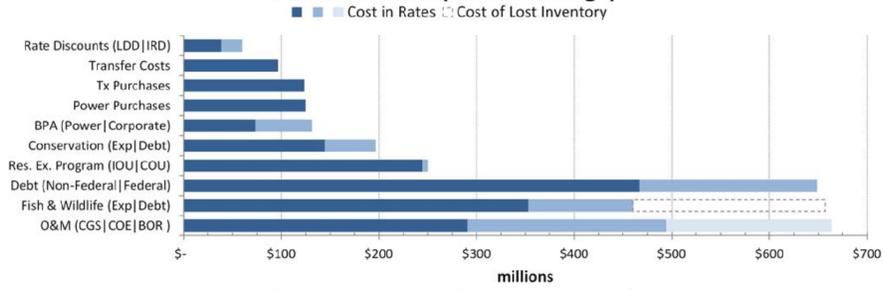
**Direct Service Industrial (0.2 cent)**  
Revenue from one directly served industrial customers

**Cost and revenue impact on Bonneville's public power rate**

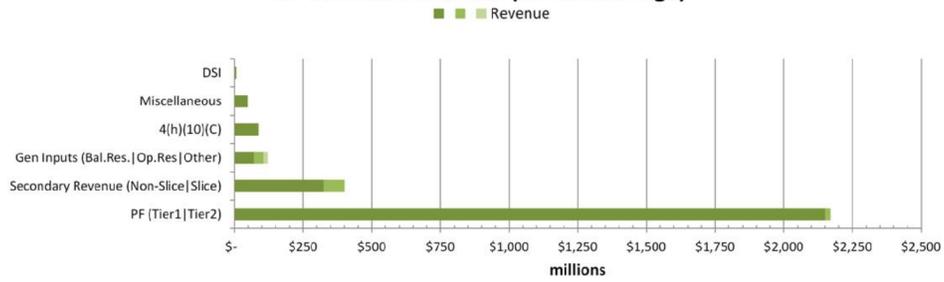


Power costs and revenue

BP-20 Power Costs (annual average)



BP-20 Power Revenue (annual average)



**From:** John Harrison  
**Sent:** Mon Apr 08 08:38:28 2019  
**To:** Read,Christine L (BPA) - EWB-4  
**Subject:** [EXTERNAL] RE: Help with some numbers  
**Importance:** Normal

Thanks, Chris.

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

**From:** Read,Christine L (BPA) - EWB-4 <clread@bpa.gov>  
**Sent:** Monday, April 08, 2019 7:50 AM  
**To:** John Harrison <jharrison@nwcouncil.org>  
**Subject:** RE: Help with some numbers

Hi John,

I forwarded to some folks here who are more qualified at these topics than I am. Hopefully I hear back in the next few days.

**From:** John Harrison [mailto:jharrison@nwcouncil.org]  
**Sent:** Friday, April 05, 2019 1:21 PM  
**To:** Read,Christine L (BPA) - EWB-4  
**Subject:** [EXTERNAL] Help with some numbers

Chris, in response to our request for comments on the draft annual report on fish and wildlife costs, Tom Iverson submitted some proposed edits. In the text below, black is my original and red is Tom. Do Tom's edits make sense to you?

Thanks,  
John

- \* Page 6: First paragraph under 2018 spill surcharge – “To make up for **projected** lost revenue, Bonneville **charged reduced** the **annual** fish and wildlife budget \$20 million.”
- \* Page 6: Third paragraph under 2018 spill surcharge – “The spill surcharge was **is** calculated independently for each year of the FY 2018-2019 rate period based on planned spill operations for each year. **For Fiscal Year 2018, the estimated cost for court ordered spill was \$38.6 million. To address this cost, in addition to secondary revenues and a \$10.1 million spill surcharge to customers, the**~~The Fiscal Year 2018~~ fish and wildlife budget was reduced by \$20 million when compared to the rate case forecast, from \$277 million to \$256 million **for both Fiscal Years 2018 and 2019.** Actual direct spending in Fiscal Year 2018 was \$248 million. **It is not known if the spill surcharge will be necessary in Fiscal Year 2019, but the fish and wildlife**

budget reduction will remain.”

- \* Page 6: Fourth paragraph under 2018 spill surcharge – “~~At the same time, though,~~ **In addition to the \$20 million annual budget reduction,** Bonneville changed the allocation of agency-wide overhead costs and assigned ~~more~~ **an additional \$10 million** ~~of internal costs~~ to **the** fish and wildlife **program.**”

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

---

**From:** Harrison, John <jharrison@nwcouncil.org>  
**Sent:** Monday, June 05, 2017 12:11 PM  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Subject:** [EXTERNAL] RE: Individual contractors for annual report on F&W costs

Oh, Sharon, you probably DID'NT stop. (b)(6) First day back in the office since March 28 although I have been working from home, as you may remember. I'm not going to go check your emails from previous years; I'm just going to assume you are right. Next year, this will go smoother on my end – I say that every year, I think. It seems the Council always manages to through me a changeup every year. Well, we got through it this year and, as I said, optimistic that I am, next year will be better! I don't expect any problems during the comment period, but you never know!

John

---

**From:** Grant, Sharon D (BPA) - EWU-4 [mailto:sdgrant@bpa.gov]  
**Sent:** Monday, June 05, 2017 11:59 AM  
**To:** Harrison, John <jharrison@nwcouncil.org>  
**Subject:** RE: Individual contractors for annual report on F&W costs

Hi John,

The odd thing is I didn't think I ever stopped sending that to you, but for sure I will see that it is on my list for next year.

Hoping for a smooth public comment period!

Sharon Grant  
503-230-5215

---

**From:** Harrison, John [mailto:jharrison@nwcouncil.org]  
**Sent:** Monday, June 05, 2017 11:54 AM  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Subject:** [EXTERNAL] RE: Individual contractors for annual report on F&W costs

Sharon, just a note to say thanks again for sending this over – and so promptly. The updated plan will be in front of the Council next week for approval for public comment, and because there are not enough days between our June and July meetings for 30 days of comment, the final approval will be at the August meeting.

We should plan – you should plan – on sending the same contractor files – seven years of tracking and one year's expenses – for future reports. Looks like the Council members now want that in the report.

Cheers,

John

---

**From:** Grant, Sharon D (BPA) - EWU-4 [<mailto:sdgrant@bpa.gov>]  
**Sent:** Tuesday, May 09, 2017 10:14 AM  
**To:** Harrison, John <[jharrison@nwcouncil.org](mailto:jharrison@nwcouncil.org)>  
**Subject:** RE: Individual contractors for annual report on F&W costs

Don't laugh. Bryan Mercier asked me to put it together so he could take a look at the list. Now that I look at what we have done in the past, I am not perfectly sure what you want. I have attached the List(s) I sent for FY14, which is:

- 1) The list "by Contractor Type" which includes a list under each including 7 years tracking; and
- 2) A list of "other" that only includes one year's expenses.

We have up through this year (FY16) included #1 above that not only is by contractor type, but includes the larger contractors. I also added that file to the attachments.

I feel like I'm missing the point, I think, because the difference is the List #2 which did not include various years of comparison. Is that what you are looking for?

Sharon Grant  
503-230-5215

---

**From:** Harrison, John [<mailto:jharrison@nwcouncil.org>]  
**Sent:** Thursday, May 04, 2017 4:05 PM  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Subject:** RE: Individual contractors for annual report on F&W costs

Perfect. Thanks!

---

**From:** Grant, Sharon D (BPA) - EWU-4 [<mailto:sdgrant@bpa.gov>]  
**Sent:** Thursday, May 04, 2017 3:00 PM  
**To:** Harrison, John <[jharrison@nwcouncil.org](mailto:jharrison@nwcouncil.org)>  
**Subject:** RE: Individual contractors for annual report on F&W costs

The funny thing is I don't know which Tony! I'm quoting Bryan!

Like I said the report is mostly done, so as soon as I hear, I will get it to you in short order.

Sharon

---

**From:** Harrison, John [<mailto:jharrison@nwcouncil.org>]  
**Sent:** Thursday, May 04, 2017 12:59 PM  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Cc:** Walker, Mark  
**Subject:** RE: Individual contractors for annual report on F&W costs

OK, thanks, Sharon. I think we decided against it last year because we thought it was too much detail, but now we have two Council members who have asked for us to reinstate it in the report, if possible.

I appreciate your help. I look forward to hearing from you. I'm copying our Public Affairs Director.

John

p.s. Which Tony do you mean?

---

**From:** Grant, Sharon D (BPA) - EWU-4 [<mailto:sdgrant@bpa.gov>]  
**Sent:** Thursday, May 04, 2017 12:51 PM  
**To:** Harrison, John <[jharrison@nwcouncil.org](mailto:jharrison@nwcouncil.org)>  
**Subject:** RE: Individual contractors for annual report on F&W costs

Hi John,

I have talked to Bryan Mercier since I seem to remember there was some reason that particular report was excluded last year. He said he would talk internally and to Tony and see if that's the way we are going. The report shouldn't take too long to pull it together once I have his approval.

Have a warm day!  
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---

**From:** Harrison, John [<mailto:jharrison@nwcouncil.org>]  
**Sent:** Thursday, May 04, 2017 10:29 AM  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Subject:** Individual contractors for annual report on F&W costs

Hi, Sharon:

A couple of our Council members want us to include in our annual report to the governors that long list of individual contractors and the amounts they have received over time. We dropped that last year because we thought it was too much detail, but now they want it back because, one said, 'it adds transparency' to the program and the report.

Question: Is this something you still can provide?

Thanks,

John

John Harrison  
Northwest Power and Conservation Council  
503-222-5161  
[www.nwcouncil.org](http://www.nwcouncil.org)

**From:** Harrison, John  
**Sent:** Mon Jun 05 12:37:41 2017  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Subject:** [EXTERNAL] RE: Individual contractors for annual report on F&W costs  
**Importance:** Normal

We soldier on, don't we? Hang in there, Sharon.

**From:** Grant, Sharon D (BPA) - EWU-4 [mailto:sdgrant@bpa.gov]  
**Sent:** Monday, June 05, 2017 12:19 PM  
**To:** Harrison, John <jharrison@nwcouncil.org>  
**Subject:** RE: Individual contractors for annual report on F&W costs

John,

(b)(6)

Here's to a healthy summer!  
Sharon

**From:** Harrison, John [mailto:jharrison@nwcouncil.org]  
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Sharon Grant  
503-230-5215

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Question: Is this something you still can provide?

Thanks,

John

John Harrison

Northwest Power and Conservation Council

503-222-5161

[www.nwcouncil.org](http://www.nwcouncil.org)

**From:** John Harrison  
**Sent:** Fri Mar 01 08:42:45 2019  
**To:** Read,Christine L (BPA) - EWB-4  
**Cc:** Stacy Horton; Lane,Jeffrey W (BPA) - EWB-4  
**Bcc:** jwlane@bpa.gov  
**Subject:** [EXTERNAL] RE: Province and subbasin breakout of costs  
**Importance:** Normal

Thanks, Chris! The different sources of numbers are confusing.  
John

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

**From:** Read,Christine L (BPA) - EWB-4 <clread@bpa.gov>  
**Sent:** Friday, March 01, 2019 8:35 AM  
**To:** John Harrison <jharrison@nwcouncil.org>; Read,Christine L (BPA) - EWB-4 <clread@bpa.gov>  
**Cc:** Stacy Horton <SHorton@NWCouncil.org>; Lane,Jeffrey W (BPA) - EWB-4 <jwlane@bpa.gov>  
>  
**Subject:** RE: Province and subbasin breakout of costs

Hi John, the G&A/CRSO-EIS is nowhere to be found in cbfish. It was added after the fact by finance, so it is being tracked by them and to my knowledge will continue to be tracked by them. CBfish only contains the integrated program.

I encourage staff to use cbfish, but I also discourage them from going back to cbfish to expect an identical match to the gov report. As I stated in my earlier email this morning, I download data from cbfish, but then slice/dice based on the different table needs.

Thanks, Chris

**From:** John Harrison [mailto:jharrison@nwcouncil.org]  
**Sent:** Thursday, February 28, 2019 3:30 PM  
**To:** Read,Christine L (BPA) - EWB-4  
**Cc:** Stacy Horton  
**Subject:** [EXTERNAL] RE: Province and subbasin breakout of costs

Chris, another question. Stacy Horton read the draft text of my report, including the explanation of G&A, and asked (I'm paraphrasing): Is the additional \$10M reflected in increased BPA overhead costs? It is added to the bottom line of \$258.7 M, but where exactly is it captured?

She included a table from CBFish that shows BPA overhead in the direct program budget but not G&A.

Help.

Thank you.

John

---

John Harrison

Information Officer

Northwest Power and Conservation Council

503-222-5161 (office)

(b)(6) (cell)

**From:** Read,Christine L (BPA) - EWB-4 <clread@bpa.gov>

**Sent:** Thursday, February 28, 2019 11:51 AM

**To:** John Harrison <jharrison@nwcouncil.org>

**Cc:** Stacy Horton <SHorton@NWCouncil.org>

**Subject:** RE: Province and subbasin breakout of costs

Yes, I can do that pretty easily. Will it be presented as a separate chart?

**From:** John Harrison [mailto:jharrison@nwcouncil.org]

**Sent:** Thursday, February 28, 2019 11:34 AM

**To:** Read,Christine L (BPA) - EWB-4

**Cc:** Stacy Horton

**Subject:** [EXTERNAL] Province and subbasin breakout of costs

Hi, Chris:

Stacy Horton and I are working on the report to the governors and noticed that for 2018, as for 2017, you report costs by province. We are wondering if you can break out costs by subbasin within each province that add up to the provincial totals.

Thanks,

John

---

John Harrison

Information Officer

Northwest Power and Conservation Council

503-222-5161 (office)

(b)(6) (cell)

**From:** John Harrison  
**Sent:** Fri Mar 01 10:55:37 2019  
**To:** Read,Christine L (BPA) - EWB-4  
**Cc:** Stacy Horton  
**Subject:** [EXTERNAL] RE: Province and subbasin breakout of costs  
**Importance:** Normal

I think this will work, Chris. Thank you!  
I appreciate the quick turnaround.  
John

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

**From:** Read,Christine L (BPA) - EWB-4 <clread@bpa.gov>  
**Sent:** Friday, March 01, 2019 10:53 AM  
**To:** John Harrison <jharrison@nwcouncil.org>; Read,Christine L (BPA) - EWB-4 <clread@bpa.gov>  
**Subject:** RE: Province and subbasin breakout of costs

Hi John, I'm not sure of the format, so I copied the others. Here you go! Let me know if you need any adjustments.

Thanks, Chris

**From:** John Harrison [mailto:jharrison@nwcouncil.org]  
**Sent:** Thursday, February 28, 2019 12:20 PM  
**To:** Read,Christine L (BPA) - EWB-4  
**Subject:** [EXTERNAL] Re: Province and subbasin breakout of costs

No, I think we would add it to the Excel spreadsheets for the charts, which we gather in a separate file and make available through a link from the online version of the report. So it would accompany the costs by province spreadsheet.

I'm glad you are able to do this, Chris!

Thank you!

John

----- Original message -----

From: "Read,Christine L (BPA) - EWB-4" <clread@bpa.gov>  
Date: 2/28/19 11:51 AM (GMT-08:00)  
To: John Harrison <jharrison@nwcouncil.org>  
Cc: Stacy Horton <SHorton@NWCouncil.org>

Subject: RE: Province and subbasin breakout of costs

Yes, I can do that pretty easily. Will it be presented as a separate chart?

**From:** John Harrison [mailto:jharrison@nwcouncil.org]

**Sent:** Thursday, February 28, 2019 11:34 AM

**To:** Read,Christine L (BPA) - EWB-4

**Cc:** Stacy Horton

**Subject:** [EXTERNAL] Province and subbasin breakout of costs

Hi, Chris:

Stacy Horton and I are working on the report to the governors and noticed that for 2018, as for 2017, you report costs by province. We are wondering if you can break out costs by subbasin within each province that add up to the provincial totals.

Thanks,  
John

---

John Harrison

Information Officer

Northwest Power and Conservation Council

503-222-5161 (office)

(b)(6) (cell)

**From:** Nancy Leonard  
**Sent:** Tue Nov 20 09:37:30 2018  
**To:** Grant, Sharon D (BPA) - EWB-4; John Harrison  
**Subject:** [EXTERNAL] RE: Question about a costs table  
**Importance:** Normal

Terrific! I am glad that you are willing to work with us on figuring out the best way to get these data out of CBFISH. It is challenging to figure it out on our end, I can tell it is possible but I can't figure out how to get it □ . John would also be able to use these data if they are made available to us so if it is possible that would be great!

**From:** Grant, Sharon D (BPA) - EWB-4 <sdgrant@bpa.gov>  
**Sent:** Tuesday, November 20, 2018 9:33 AM  
**To:** Nancy Leonard <nleonard@NWCouncil.org>; John Harrison <jharrison@nwcouncil.org>  
**Subject:** RE: Question about a costs table

I will take a look and talk to those who know the answers, and see what we might be able to come up with. Hang in there ☺

**From:** Nancy Leonard [mailto:nleonard@NWCouncil.org]  
**Sent:** Tuesday, November 20, 2018 9:14 AM  
**To:** Grant, Sharon D (BPA) - EWB-4; John Harrison  
**Subject:** [EXTERNAL] RE: Question about a costs table

Hi Sharon,

Yes there are specific non-financial reports I'm interested in.

I sent the attached excel file to Dal. Each individual excel tab shows the existing report that comes close to providing the content I want (URL link included) and then shows the content I would like to have in the row/columns. The first 4 excel tabs also include a side note to Dal about whether it is possible to also have the lat-longs associated with these data.

I don't need perfect data since I won't be using these data for any type of scientific analysis, but as long as the data reflect reality and we understand the limitations of the data (limitations on the accuracy etc) then we can work with it.

If you think portfolios can generate the needed information perhaps you can show /teach me how. My only knowledge about portfolios is how to group projects together.

Thanks,  
Nancy

**From:** Grant, Sharon D (BPA) - EWB-4 <sdgrant@bpa.gov>  
**Sent:** Tuesday, November 20, 2018 9:07 AM

**To:** Nancy Leonard <nleonard@NWCouncil.org>; John Harrison <jharrison@nwcouncil.org>  
**Subject:** RE: Question about a costs table

Nancy,

I will talk to Dal or Tuan about the multiple year reporting. Are there certain reports you would be interested in, besides Spending by Province/Subbasin? There are some ways that are cheaper than others for report building such as using Portfolios...I will look into it.

Sharon

**From:** Nancy Leonard [mailto:nleonard@NWCouncil.org]  
**Sent:** Tuesday, November 20, 2018 9:00 AM  
**To:** Grant, Sharon D (BPA) - EWB-4; John Harrison  
**Subject:** [EXTERNAL] RE: Question about a costs table

Hi Sharon,

This looks great! Thank you for taking the time to do this for us I know it took hours! And for trouble shooting the numbers I wouldn't have been able to do that.

We can wait until the numbers are finalized for FY2018 to add those in.

Perhaps we can see if CBFISH will be willing to add the function of multiple years in their reporting?

I am also trying to pull WE information from CBFISH that the canned reports don't quite provide what I need. I'm hoping Dal will be able to modify those reports for me with minimal cost and provide those in outyears. We will see ☐

Thank you again,  
Nancy

**From:** Grant, Sharon D (BPA) - EWB-4 <sdgrant@bpa.gov>  
**Sent:** Tuesday, November 20, 2018 8:54 AM  
**To:** Nancy Leonard <nleonard@NWCouncil.org>; John Harrison <jharrison@nwcouncil.org>  
**Subject:** RE: Question about a costs table

OK, I still we still have a problem with CBFish downloads trying to round everything individually, which causes totals to be off slightly. I worked on that so all totals are good. (And there will be another discussion about reports!)

I didn't add FY2018 which although is now over but needs some work before reports are looking good. If you want a preliminary number, I can add that, too. Let me know if you need anything else, or have any problems with this.

Sharon

**From:** Nancy Leonard [mailto:nleonard@NWCouncil.org]  
**Sent:** Monday, November 19, 2018 12:03 PM  
**To:** Grant, Sharon D (BPA) - EWB-4; John Harrison  
**Subject:** [EXTERNAL] RE: Question about a costs table

Hi Sharon,

If you have the time to pull it this afternoon that would be great!

I can work with these data easily once they are in an EXCEL file, so if easiest (and faster) you can keep the current layout/content of the CBFISH export.

I am going as far back in years as possible, so for cbfish I guess that ends at 2005?

I am fine with combining Capital and Expense on the same table for each of the subbasins as shown on the cbfish PDF file.

If you run out of time, you can send me what you manage to pull and I'll continue it tomorrow morning.

Thank you again for your help. I really appreciate it.

Nancy

**From:** Grant, Sharon D (BPA) - EWB-4 <sdgrant@bpa.gov>  
**Sent:** Monday, November 19, 2018 11:56 AM  
**To:** Nancy Leonard <nleonard@NWCouncil.org>; John Harrison <jharrison@nwcouncil.org>  
**Subject:** RE: Question about a costs table

Hi Nancy,

As far as I know I have to pull one at a time. I would be glad to do that for you this afternoon if you tell me which years you want to track. And do you want Capital and Expense combined or separate (2 columns per year or a separate table)?

Sharon

**From:** Nancy Leonard [mailto:nleonard@NWCouncil.org]  
**Sent:** Monday, November 19, 2018 11:47 AM  
**To:** John Harrison; Grant, Sharon D (BPA) - EWB-4  
**Subject:** [EXTERNAL] RE: Question about a costs table

Thank you Sharon and John,

This is exactly what I need.

Sharon is there an easy way to extract multiple years at one time or can I only extract one year at a time by changing the year in the URL?

Thanks for sharing this link and letting me know if there is a shortcut for pulling multiple years.

Nancy

**From:** John Harrison  
**Sent:** Monday, November 19, 2018 11:41 AM  
**To:** Grant, Sharon D (BPA) - EWB-4 <sdgrant@bpa.gov>  
**Cc:** Nancy Leonard <nleonard@NWCouncil.org>  
**Subject:** RE: Question about a costs table

That's wonderful, Sharon. Thank you for a thorough response!  
I'm copying Nancy, and I will let her reply directly to you if she has additional questions – specific years, for example.  
John

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

**From:** Grant, Sharon D (BPA) - EWB-4 <sdgrant@bpa.gov>  
**Sent:** Monday, November 19, 2018 11:30 AM  
**To:** John Harrison <jharrison@nwcouncil.org>  
**Subject:** RE: Question about a costs table

Good morning John,

The report I use from cbfish.org to report on spending by Province (Location) is the following:  
<https://www.cbfish.org/Reports/ReportViewer.aspx?RptName=SpendingByLocationProvinceSubbasin&rs%3aFormat=PDF&piFiscalYear=2017>  
(Note that you can replace the year on the end of the link with whatever year you want to pull up.)

And yes, it also includes the subbasins, rolling up into the Province. The weird ones are the undetermined, inside and outside of the NPCC provinces. The footnotes give you an idea of how the tracking is done:

1. "Direct" Spending can be tracked back to a work element where the contractor explicitly

identified work location.

2. 2. "Contract Administration" spending can be tracked back to a work element that did not require the contractor to identify the work location, such as WE 119. Manage and Administer Project.
3. 3. "Program Administration" spending can NOT be tracked back to a contract that has at least one work element requiring location. Examples include contracts that contain only administrative work elements (e.g. coordination contracts), contracts without any work elements at all, or program level spending that could not be mapped to a specific project such as some types of Environmental Compliance work and program overhead.
4. 4. "Undetermined" locations are those where the underlying work element's location has been provided by the contractor, but the properties for that location (such as State, County, etc.) have not yet been determined

If you tell me exactly what you would like (I suppose which years), I can pull together tables for you.

Sharon Grant  
Bonneville Power Administration  
503-230-5215

**From:** John Harrison [mailto:jharrison@nwcouncil.org]  
**Sent:** Monday, November 19, 2018 10:08 AM  
**To:** Grant, Sharon D (BPA) - EWB-4  
**Subject:** [EXTERNAL] Question about a costs table

Sharon, Nancy Leonard on our fish and wildlife staff sent me an email with this question:

**Question:** in Figure 8 you provide cost by province, do you create this by summing cost by subbasins? If yes I would love to have the cost by subbasins for FY2017 and past years if you have that.

I don't know the answer so I thought I would ask you. How do you calculate the costs by province?

Thanks,

John

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

**From:** John Harrison  
**Sent:** Tue Nov 20 10:06:57 2018  
**To:** Grant, Sharon D (BPA) - EWB-4  
**Subject:** [EXTERNAL] RE: Question about a costs table  
**Importance:** Normal

Well, first, congratulations on the transfer or promotion. I hope it will be a good thing for you. Second, no worries about the timing of it. Generally, yes, I tend to get these reports out in draft for public comment in the April/May timeframe. I wouldn't mind backing that up a bit, but I certainly understand that contractors don't all file their FY final reports on time. That's no problem for me. The only time it's ever come up is when my supervisor or a Council member says, 'hey, it's April – don't you have that [previous fiscal year's] cost report for us yet?' Or something like that. Usually it's mid-year before we get it out, and I think everyone over here understands that we have to wait for Bonneville to certify the final numbers, and that Bonneville has to wait until all the projects have reported, and then you have to gather the numbers, and all of that.

I don't want to apply undue pressure – particularly now that you have new responsibilities and deadlines. So I think we should proceed on the usual schedule. I will begin looking for final tables with the sorted numbers in the February/March timeframe, I will produce a draft report for the Council to release for 30 days of public comment in April, possibly May, and we will make the report final in May or June. That follows our usual practice.

FYI, 2019 will be interesting for us, as we will produce an amended fish and wildlife program, begin work on the next iteration of the power plan, and have at least two new Council members and maybe more – Bill Booth, Idaho, and Tom Karier, Washington, are leaving. Bill is retiring and Tom is returning to teach at Eastern Washington University. There is a new governor in Idaho and a reelected one in Oregon, and governors appoint Council members.

Just remember, in the immortal words of one of our former fish and wildlife directors, “Change is our friend.”

john

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

**From:** Grant, Sharon D (BPA) - EWB-4 <sdgrant@bpa.gov>  
**Sent:** Tuesday, November 20, 2018 9:48 AM  
**To:** John Harrison <jharrison@nwcouncil.org>  
**Subject:** RE: Question about a costs table

John,

I would not want to share too much before I take some time to review the data. I'm sure you are

aware that sometimes contracting folks don't quite finish up the details on their contracts in a timely manner, or someone just misses details that need to be filled in that change what category funds go into. I think I will start on that project a little earlier this year, but am out a bit until Dec. 15 (family trips for weddings, etc.).

It won't hurt my feelings to remind me that you are ready and anxious for the reports. I think I have lived under the impression that you didn't need it before March-April. If you want to back that up a bit, I can live with that. Give me your preferred timeframe and I will work on it. Besides, I'm in a new position so I'm not living under the same time constraints as previous years (just different ones!).

Sharon

**From:** John Harrison [mailto:jharrison@nwcouncil.org]  
**Sent:** Tuesday, November 20, 2018 9:38 AM  
**To:** Grant, Sharon D (BPA) - EWB-4  
**Subject:** [EXTERNAL] RE: Question about a costs table

Yes, thanks, Sharon.

I hope you keep working on the tables for my annual F&W costs report. You know them well, and you've been so helpful to me.

I'm glad to have the FY2018 totals, but it's the tables that break down the costs I'm wondering about. I'm sure it's too early to ask. Looking at my emails for the last report, we began talking about it in January but I did not receive the final tables until March. Just looking ahead, I am!

John

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

**From:** Grant, Sharon D (BPA) - EWB-4 <sdgrant@bpa.gov>  
**Sent:** Tuesday, November 20, 2018 9:31 AM  
**To:** John Harrison <jharrison@nwcouncil.org>  
**Subject:** RE: Question about a costs table

I'm assuming you mean the capital and expense totals. Our accountant gave me the following actuals for FY18.

|              |               |
|--------------|---------------|
| F&W Capital: | \$30,668,737  |
| F&W Expense: | \$248,031,353 |

F&W Total: \$278,700,090

This doesn't include the USFWS Lower Snake River Hatcheries @ \$31,391,887

By the way, I have switched working with F&W Implementation to F&W Business Operations, which puts me closer to finance, but I'm actually working with the systems side of it, including supporting CBFish. For now I will continue to work on your annual reports, but can't say whether Jeff Lane, the manager, will reassign it.

Sharon

**From:** John Harrison [mailto:jharrison@nwcouncil.org]  
**Sent:** Tuesday, November 20, 2018 8:59 AM  
**To:** Grant, Sharon D (BPA) - EWB-4; Nancy Leonard  
**Subject:** [EXTERNAL] RE: Question about a costs table

Thank you, Sharon. Since Nancy asked for this I'll let her reply as to whether this has what she needs.  
But for my purposes, when do you think the 2018 actuals will be available for our next costs report? If I remember, it's usually January.  
John

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

**From:** Grant, Sharon D (BPA) - EWB-4 <sdgrant@bpa.gov>  
**Sent:** Tuesday, November 20, 2018 8:54 AM  
**To:** Nancy Leonard <nleonard@NWCouncil.org>; John Harrison <jharrison@nwcouncil.org>  
**Subject:** RE: Question about a costs table

OK, I still we still have a problem with CBFish downloads trying to round everything individually, which causes totals to be off slightly. I worked on that so all totals are good. (And there will be another discussion about reports!)

I didn't add FY2018 which although is now over but needs some work before reports are looking good. If you want a preliminary number, I can add that, too. Let me know if you need anything else, or have any problems with this.

Sharon

**From:** Nancy Leonard [mailto:nleonard@NWCouncil.org]

**Sent:** Monday, November 19, 2018 12:03 PM  
**To:** Grant, Sharon D (BPA) - EWB-4; John Harrison  
**Subject:** [EXTERNAL] RE: Question about a costs table

Hi Sharon,

If you have the time to pull it this afternoon that would be great!

I can work with these data easily once they are in an EXCEL file, so if easiest (and faster) you can keep the current layout/content of the CBFISH export.

I am going as far back in years as possible, so for cbfish I guess that ends at 2005?

I am fine with combining Capital and Expense on the same table for each of the subbasins as shown on the cbfish PDF file.

If you run out of time, you can send me what you manage to pull and I'll continue it tomorrow morning.

Thank you again for your help. I really appreciate it.

Nancy

**From:** Grant, Sharon D (BPA) - EWB-4 <sdgrant@bpa.gov>  
**Sent:** Monday, November 19, 2018 11:56 AM  
**To:** Nancy Leonard <nleonard@NWCouncil.org>; John Harrison <jharrison@nwcouncil.org>  
**Subject:** RE: Question about a costs table

Hi Nancy,

As far as I know I have to pull one at a time. I would be glad to do that for you this afternoon if you tell me which years you want to track. And do you want Capital and Expense combined or separate (2 columns per year or a separate table)?

Sharon

**From:** Nancy Leonard [mailto:nleonard@NWCouncil.org]  
**Sent:** Monday, November 19, 2018 11:47 AM  
**To:** John Harrison; Grant, Sharon D (BPA) - EWB-4  
**Subject:** [EXTERNAL] RE: Question about a costs table

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**Sent:** Monday, November 19, 2018 11:41 AM  
**To:** Grant, Sharon D (BPA) - EWB-4 <sdgrant@bpa.gov>  
**Cc:** Nancy Leonard <nleonard@NWCouncil.org>  
**Subject:** RE: Question about a costs table

That's wonderful, Sharon. Thank you for a thorough response!  
I'm copying Nancy, and I will let her reply directly to you if she has additional questions – specific years, for example.

John

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
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**From:** Grant, Sharon D (BPA) - EWB-4 <sdgrant@bpa.gov>  
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(Note that you can replace the year on the end of the link with whatever year you want to pull up.)

And yes, it also includes the subbasins, rolling up into the Province. The weird ones are the undetermined, inside and outside of the NPCC provinces. The footnotes give you an idea of how the tracking is done:

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require the contractor to identify the work location, such as WE 119. Manage and Administer Project.

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If you tell me exactly what you would like (I suppose which years), I can pull together tables for you.

Sharon Grant  
Bonneville Power Administration  
503-230-5215

**From:** John Harrison [mailto:jharrison@nwcouncil.org]  
**Sent:** Monday, November 19, 2018 10:08 AM  
**To:** Grant, Sharon D (BPA) - EWB-4  
**Subject:** [EXTERNAL] Question about a costs table

Sharon, Nancy Leonard on our fish and wildlife staff sent me an email with this question:

**Question:** in Figure 8 you provide cost by province, do you create this by summing cost by subbasins? If yes I would love to have the cost by subbasins for FY2017 and past years if you have that.

I don't know the answer so I thought I would ask you. How do you calculate the costs by province?

Thanks,

John

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

---

**From:** Harrison, John <jharrison@nwcouncil.org>  
**Sent:** Friday, July 14, 2017 11:37 AM  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Cc:** Horton, Stacy  
**Subject:** [EXTERNAL] RE: Question about a spending category

Thanks, Sharon, for such a complete explanation. It makes sense, and I really appreciate the quick response. We'll pass this along to Jennifer Anders, who asked the question, and if she has any further questions we can't answer we'll get back to you.  
One other thing: Stacy and I noticed in the table that Bonneville spent \$608,212 on Oregon Chub projects, but that species was delisted in 2015 because it was deemed to have recovered. Therefore, should it not be included in the table about spending on ESA-listed species?

John

---

**From:** Grant, Sharon D (BPA) - EWU-4 [mailto:sdgrant@bpa.gov]  
**Sent:** Friday, July 14, 2017 10:05 AM  
**To:** Harrison, John <jharrison@nwcouncil.org>  
**Cc:** Horton, Stacy <SHorton@NWCouncil.org>  
**Subject:** RE: Question about a spending category

I think the best way to explain it is by using the information given on our **BPA Fish & Wildlife Program Spending on Focal Species** Report background information (found within [cbfish.org](http://cbfish.org)) regarding spending estimates. Link: <https://www.cbfish.org/Reports/ReportViewer.aspx?RptName=SpendingOnFocalSpecies&rs%3AFormat=PDF&psFiscalYear=2016&psAccountType=All>

#### Spending Estimates

Due to the impracticality of requiring the program's 200+ contracting organizations to invoice BPA by work element or focal species as well as by cost type (labor, materials, etc.), this report uses work element budgets to approximate spending by focal species. Contractors are required to provide "planned" work element budgets when creating their statement of work, and then later are required provide "updated" budgets when they mark their work elements complete during status reporting. Therefore, these costs reflect contractors best estimate of the cost of the work element that includes all aspects: labor, materials, travel, and indirect costs and may reflect some level of cost estimation error (however, averaging and summarizing the data from over 8,000 work elements per fiscal year greatly reduces the effect of estimation errors).

Contract expenditures are distributed proportionally to the work element budgets and the focal species associated with each work element. For example, if a contract has two work elements with budgets of \$30 (a) and \$10 (b), and has \$20 of to-date expenditures, our reporting model would approximate expenditures by multiplying the total expenditures (\$20) by the percentage of the budget associated with each work element. Specifically, \$15 ( $\$30/\$40 * \$20$ ) and \$5 ( $\$10/\$40 * \$20$ ) would be allocated to work element (b). Continuing with the example, if the first work element benefited Pacific Lamprey and the second benefited Brown Trout, this report would show \$15 of spending on the Pacific Lamprey and \$5 on the Brown Trout.

However, most contracts are more complex and include a mix of work elements that require the identification of focal species and others that don't. Roughly 3/4 of all work elements require focal species information. In order to deal with the 1/4 of work elements that don't have focal species information (e.g. WE 119. Manage and Administer Project), this report distributes the spending on those "administrative" work elements proportionally across the focal species that a contract benefits. For example, consider another contract with four work elements, the first three require focal species while the fourth doesn't. To keep it simple, the species benefited by the first two work elements is Upper Columbia Steelhead ESU, and on the third work element it is Snake River Fall Chinook ESU; the work element budgets are \$400, \$300, \$100, \$200, respectively. Since we want to account for this last \$200 spent to manage and administer the project (without which arguably no species would be benefited), we divide up the \$200 proportionally: Upper Columbia Steelhead ESU gets  $\$200 * (\$400 + \$300) / (\$400 + \$300 + \$100) = \$200 * 7/8 = \$175$  of it; while Snake River Fall Chinook ESU gets  $\$200 * 1/8 = \$25$  of it. (ESU = Evolutionary Significant Unit, or a way of classifying a species relative to its geographic extent.)

The simple answer is: For those contracts with spending on specific focal species, the funds are listed as 1) direct funding and 2) administrative funding where the “work element” does not require a focal species to be named. For those without a focal species named, the funds are divided up between all benefitted species within the contract proportionally to the focal species spending identified in the rest of the contract. For those contracts without focal species listed, there would be no allocation of spending to any focal species.

On our Focal Species report mentioned above, any contract spending without a focal species designation is summarized at the bottom of the table as Program Administration Spending, such that the Focal Species Spending and the Program Administration Spending will equal the Total Program Spending for that fiscal year.

Hopefully this will answer the question. Otherwise I can try again (or ask for help),

Sharon Grant

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**From:** Harrison, John [<mailto:jharrison@nwcouncil.org>]  
**Sent:** Friday, July 14, 2017 9:25 AM  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Cc:** Horton, Stacy  
**Subject:** [EXTERNAL] Question about a spending category

Hi, Sharon:

One of our Council members, reviewing the annual report on fish and wildlife costs, asked my colleague Stacy Horton what is meant by the following:

2) Contract Administration spending can be tracked back to a work element that did not require the contractor to identify the “Primary Focal Species” benefiting from the work.

Stacy isn't sure, and neither am I, sorry. The footnote is in the table about costs associated with ESA-listed fish. Is “Contract Administration Spending” Bonneville’s overhead assigned to each of the listed species – i.e., \$1,532,273 in FY 16 for Lower Columbia Chinook? Or does it have something to do with a catch-all category for ESA-related costs that are not specific to a particular species – but if so, why are those costs assigned to individual species? Thus, I’m confused.

Help.

The total is a big number (\$52,507,617), and so the member is asking for a more complete definition of the category/term.

Thanks, Sharon.

John

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

**From:** John Harrison  
**Sent:** Fri Sep 22 09:29:53 2017  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Subject:** [EXTERNAL] RE: Question about a table  
**Importance:** Normal

Ah-ha, OK, Sharon. I sent you the file before I saw this email.  
Thanks for your help.

John

**From:** Grant, Sharon D (BPA) - EWU-4 [mailto:sdgrant@bpa.gov]  
**Sent:** Friday, September 22, 2017 9:24 AM  
**To:** John Harrison <jharrison@nwcouncil.org>  
**Cc:** Lennox, Alexander (BPA) - FTR-2 <alennox@bpa.gov>  
**Subject:** RE: Question about a table

Hi John,

I think I answered my own question and can now direct you more clearly to your answer. The report (Total Cost of BPA Fish & Wildlife Actions) to which you are referring came from Alexander Lennox in BPA Finance. I have copied him here to bring this to his attention. I assume Alex will be able to answer your question more correctly than I.

Sharon Grant  
Bonneville Power Administration  
503-230-5215

**From:** Grant, Sharon D (BPA) - EWU-4  
**Sent:** Friday, September 22, 2017 9:01 AM  
**To:** 'John Harrison'  
**Subject:** RE: Question about a table

John,

I do have one question, though, maybe because it has been a while...  
Which file are you referring to with the reference to \$621M (line 29, Col AL, "big spreadsheet")? I can't pinpoint what that would be.

Inquiring minds want to know ☺  
Sharon

**From:** John Harrison [mailto:jharrison@nwcouncil.org]  
**Sent:** Friday, September 22, 2017 8:35 AM  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Subject:** [EXTERNAL] Question about a table

Hi, Sharon:  
Don't worry, I'm not writing about next year's cost report!

You may have heard that Bonneville sent a comment on my draft report on fish and wildlife costs that said costs associated with two programs had been left out of the initial calculation inadvertently, and that these added to the total costs. Specifically, the comment, which regarded the percentage of costs attributable to fish and wildlife in the preference rate, was:

Unfortunately, the 25 percent figure excludes some fish costs contained in the O&M budgets of the Bureau of Reclamation and U.S. Army Corps of Engineers (\$55 million) along with additional depreciation and amortization above and beyond what is earmarked in the Cost of Service Analysis as fish-related (\$112 million). Omission of these costs led to an understatement by Bonneville, which made it into the Council's draft report.

Those two elements add \$167 million to the total. Would this have raised the total from \$621 million (Line 29 Column AL of the big spreadsheet you sent me initially) to (621 + 167) \$785 million? I wondered about that during the comment period, but because changing the total would have meant redoing nearly every figure and table in the report, I didn't make any changes – other than the language change Bonneville requested.

If in fact there is a new total (\$785 million), I'm writing to ask whether that has been captured in the spreadsheet. When I open my version, I'm prompted to update various things but, of course, I can't because I can't connect to Bonneville's internal system. If there is an updated version, could you send it to me for my files?

Thank you.

John

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

---

**From:** John Harrison <jharrison@nwcouncil.org>  
**Sent:** Thursday, September 06, 2018 3:17 PM  
**To:** Grant, Sharon D (BPA) - EWB-4  
**Subject:** [EXTERNAL] RE: Question about some fish projects

OK, got it. Thanks.

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

---

**From:** Grant, Sharon D (BPA) - EWB-4 <sdgrant@bpa.gov>  
**Sent:** Thursday, September 06, 2018 3:16 PM  
**To:** John Harrison <jharrison@nwcouncil.org>  
**Subject:** RE: Question about some fish projects

When you log into CBFish, use Explore -> Interactive Data and Reports -> All Reports. You could search for "location" or "state" for this one.

Sharon

---

**From:** John Harrison [<mailto:jharrison@nwcouncil.org>]  
**Sent:** Thursday, September 06, 2018 3:01 PM  
**To:** Grant, Sharon D (BPA) - EWB-4  
**Subject:** [EXTERNAL] RE: Question about some fish projects

That's perfect, Sharon. Just what I needed.  
Where do I go to find the [Spending by State and County Reports](#)? Is that on the CBFish site?  
John

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

---

**From:** Grant, Sharon D (BPA) - EWB-4 <sdgrant@bpa.gov>  
**Sent:** Thursday, September 06, 2018 2:58 PM  
**To:** John Harrison <jharrison@nwcouncil.org>  
**Subject:** RE: Question about some fish projects

Hi John,

The best way to find it is (probably just ask me ☺...or) go to the Spending by State and County Reports, choose your FY then on the list, click the total for which you want the detail (in this case, Canada). It opens as an Excel file if you click on the “undetermined” row under British Columbia but comes out as a .txt file if you click on the Bold total line(s). You can still open the .txt file in Excel using the Text Import Wizard.

Anyway, I have attached the current list for FY17 (and have added project titles). Is this what you were looking for? Notice that the total is a little off as (you know) the totals change as folks complete their contracts and re-assess the cost per work element.

Let me know if you need more.

Sharon Grant  
Bonneville Power Administration  
5093-230-5215

---

**From:** John Harrison [<mailto:jharrison@nwcouncil.org>]  
**Sent:** Thursday, September 06, 2018 2:11 PM  
**To:** Grant, Sharon D (BPA) - EWB-4  
**Subject:** [EXTERNAL] Question about some fish projects

Hi, Sharon:  
In the attached table, do have a list, or do you know where I could find one, of all the projects in British Columbia?  
Thanks,  
John

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

---

**From:** John Harrison <jharrison@nwcouncil.org>  
**Sent:** Friday, March 01, 2019 8:48 AM  
**To:** Read,Christine L (BPA) - EWB-4; Lane,Jeffrey W (BPA) - EWB-4  
**Subject:** [EXTERNAL] RE: Question about the total expense budget for FY 18

Thank you, Chris. Yes, it does help clear things up – and also emphasizes again how complex these cost issues are, at least to an outsider like me.  
John

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

---

**From:** Read,Christine L (BPA) - EWB-4 <[clread@bpa.gov](mailto:clread@bpa.gov)>  
**Sent:** Friday, March 01, 2019 8:08 AM  
**To:** Lane,Jeffrey W (BPA) - EWB-4 <[jwlane@bpa.gov](mailto:jwlane@bpa.gov)>; Read,Christine L (BPA) - EWB-4 <[clread@bpa.gov](mailto:clread@bpa.gov)>; John Harrison <[jharrison@nwcouncil.org](mailto:jharrison@nwcouncil.org)>  
**Subject:** RE: Question about the total expense budget for FY 18

Hi John,  
Jeff has asked I reply to your questions. The difficult part is the mixing of expense & capital.

When I do the tables for you, it is a combination of expense & capital expenditures. In the fish costs table (the one you get directly from Finance), they separate out expense & capital, but don't necessarily subtotal them. As a reminder, it was:

|                       |  |
|-----------------------|--|
| Line 4 – F&W Capital: | \$30.7M  |
| Line 9 – F&W Expense: | \$258.7M (\$10.7M/G&A,CRSO-EIS; \$248M/integrated program) |
| <b>TOTAL:</b>         | <b>\$289.4M</b>  |

In the tables I provide you, some total to \$289.4M (if the table is referencing the entire program), some are less (if the table is referencing a portion of the program such as just hatchery or RM&E).

Given the figures above, maybe we need to specify in Jeff's comment that it is speaking only to the expense side.

Secondly, on the overhead question. The cbfish values you referenced below all pertain to budget. Budget is the ceiling we can contract in a 12-month period. At the fund level, it really is an estimate based on risk. The reports I give to you are Expenditures – that is what we actually spend in the Federal FY (October-September) including accruals. They will never match up since all of our contracts are cost reimbursement, so we plan higher to

spend at the target value and all of our contracts start in different months of the year (so there is spending in multiple FY's).

I use aspects of cbfish to create this report - I pull the data, add to it, then slice & dice based on the needs on each table. In the category table, I do not sort that by fund, it is by project. For example, Chief Joseph Hatchery is under Production/Supplementation. If we were to give it \$1 or \$100k from our OH for any purpose, it would still be categorized as Production/Supplementation. That is why the notes following each table are so important.

I hope this helps!

---

**From:** Lane,Jeffrey W (BPA) - EWB-4  
**Sent:** Thursday, February 28, 2019 4:56 PM  
**To:** Read,Christine L (BPA) - EWB-4  
**Subject:** FW: Question about the total expense budget for FY 18

Hi Chris,

Do you have time to answer John Harrison's questions below?

Thanks.

**Jeff Lane**  
Manager | Business Ops Support (EWB), Fish & Wildlife  
**BONNEVILLE POWER ADMINISTRATION**  
[jwlane@bpa.gov](mailto:jwlane@bpa.gov) | Ph 503-230-3064

---

**From:** John Harrison [<mailto:jharrison@nwcouncil.org>]  
**Sent:** Thursday, February 28, 2019 3:23 PM  
**To:** Lane,Jeffrey W (BPA) - EWB-4  
**Cc:** Stacy Horton  
**Subject:** [EXTERNAL] Question about the total expense budget for FY 18

Jeff: I'm struggling a bit because I don't see things lining up in terms of total costs. In the paragraph you sent about the spill surcharge you wrote (my highlighting):

The FY 2018 fish and wildlife budget was reduced by \$20 million when compared to the rate case forecast, from \$277 million to \$256 million. Actual direct spending in FY 2018 ended up at \$248 million. At the same time, though, BPA changed the attribution of corporate overhead costs and assigned more to fish & wildlife. This was done to better reflect how corporate organizations support fish and wildlife which ensured that these costs would be captured in the calculation of the 4(h)(10)(C) credit. **As a result, the total spending appears as \$258 million in the total cost table.**

Which is true. Here is Line 9 from that spreadsheet:

| PROGRAM EXPENSES                     |       |       |       |    |
|--------------------------------------|-------|-------|-------|----|
| BPA DIRECT FISH AND WILDLIFE PROGRAM | 199.6 | 221.1 | 248.9 | 23 |

But then in the spreadsheets Chris sent, direct program expense spending is more -- \$289,372,127. For example:

| Direct Program Expenditures by Category, FY2018 |                      |                      |                      |                     |
|---|----------------------|----------------------|----------------------|---------------------|
| Category  | 2011                 | 2012                 | 2013                 | 2014                |
| Coordination (Local/Regional)                   | \$25,185,796         | \$28,135,259         | \$30,074,160         | \$13,294,30         |
| Coordination (BPA Overhead) <sup>3</sup>        |                      |                      |                      | \$14,616,14         |
| Data Management                                 | \$4,319,007          | \$4,130,748          | \$3,980,351          | \$4,244,80          |
| Habitat (Restoration/Protection)                | \$123,373,947        | \$122,609,228        | \$118,831,309        | \$102,422,79        |
| Harvest Augmentation                            | \$3,599,302          | \$4,429,624          | \$4,077,995          | \$4,062,87          |
| Production (Supplementation)                    | \$61,846,889         | \$53,165,835         | \$50,024,766         | \$45,146,279        |
| Law Enforcement                                 | \$805,250            | \$853,122            | \$750,780            | \$883,67            |
| Predator Removal                                | \$2,983,190          | \$3,558,732          | \$3,309,064          | \$3,879,43          |
| Research, Monitoring and Evaluation             | \$89,101,514         | \$89,527,224         | \$80,053,469         | \$80,583,80         |
| G&A   |                      |                      |                      |                     |
| CRSO EIS  |                      |                      |                      |                     |
| <b>Total</b>                                    | <b>\$311,214,895</b> | <b>\$306,409,772</b> | <b>\$291,101,892</b> | <b>\$269,134,11</b> |

And to further complicate matters, regarding overhead, CBFish reports, for FY 2018, this:

Funds - Show me funds with  
 FY2018 - Expense ▾

|   | Fund                             | Available Budget | Planning Budget % | Planning Budget | Maximum Budget % | Maximum Budget | Work (proj) |
|---|----------------------------------|------------------|-------------------|-----------------|------------------|----------------|-------------|
| ☰ | PROGRAM                          | \$310,000,000    | 0.00%             | \$310,000,000   | 1.00%            | \$313,100,000  |             |
| ☰ | BiOp FCRPS 2008 (non-Accord)     |                  |                   | \$100,000,000   | 10.00%           | \$110,000,000  |             |
| ☰ | BPA non-Overhead Support         |                  |                   | \$1,500,000     | 50.00%           | \$2,250,000    |             |
| ☰ | BPA Overhead                     |                  |                   | \$16,000,000    | 0.00%            | \$16,000,000   |             |
| ☰ | BPA Overhead - Technical Support |                  |                   | \$2,000,000     | 15.00%           | \$2,300,000    |             |

CBFish also reports the 2018 expense **planning** budget total as \$274,313,041, the Expense **maximum** budget total as \$311,267,786, and the Expense **working** budget total as \$285,001,064.

Help.

John

---

John Harrison  
 Information Officer  
 Northwest Power and Conservation Council

503-222-5161 (office)  
(b)(6) (cell)

**From:** John Harrison  
**Sent:** Thu Sep 06 15:33:16 2018  
**To:** Grant, Sharon D (BPA) - EWB-4  
**Subject:** [EXTERNAL] RE: Question about some fish projects  
**Importance:** Normal  
**Attachments:** image004.png; image005.png; image006.png; image007.png

Ah-ha! Thanks, Sharon. I knew you would know.  
Thanks a lot.,  
John

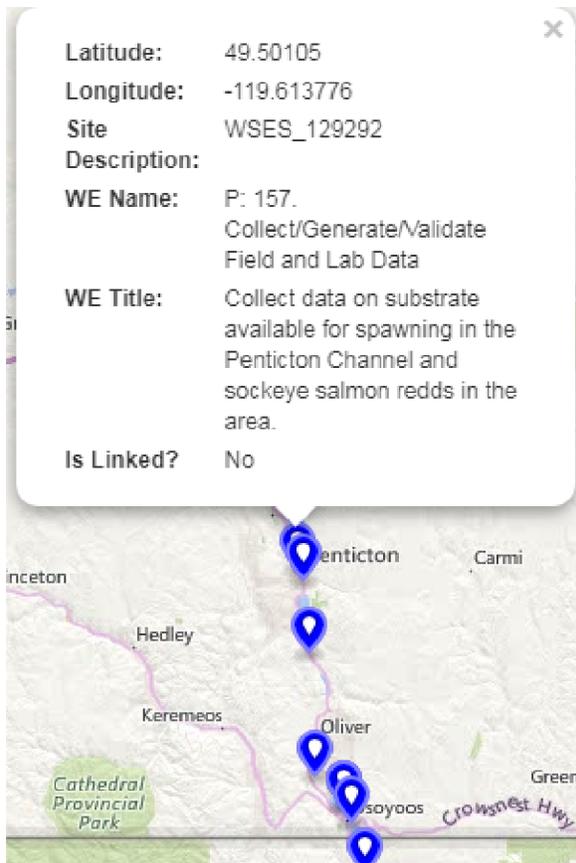
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John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

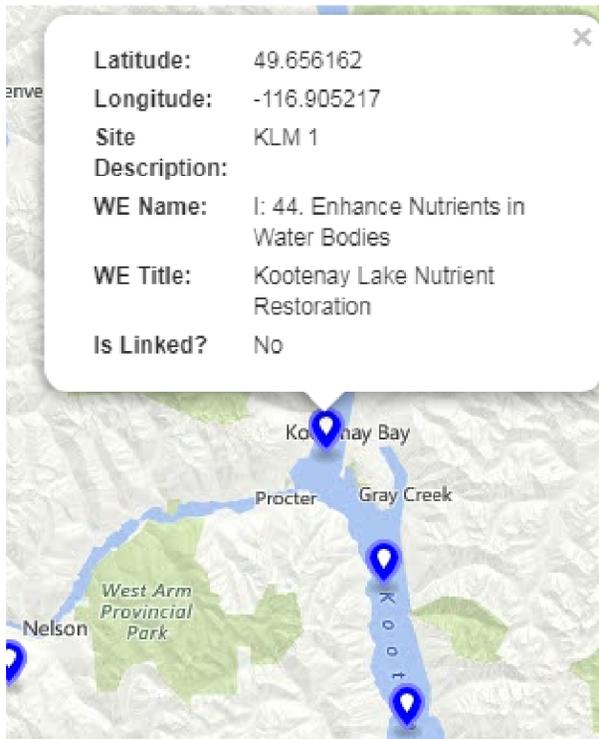
**From:** Grant, Sharon D (BPA) - EWB-4 <sdgrant@bpa.gov>  
**Sent:** Thursday, September 06, 2018 3:32 PM  
**To:** John Harrison <jharrison@nwcouncil.org>  
**Subject:** RE: Question about some fish projects

John,

2008-503-00: The Department of Fisheries and Oceans Canada are on the list of project contacts. If you go to the current contract ( <https://www.cbfish.org/Contract.mvc/WorkSites/73354%20REL%203> ) and click on the Map (right side of the page), you will see several locations in Canada.



1994-049-00: The map looks similar on this one (<https://www.cbfish.org/Contract.mvc/WorkSites/76826%20REL%207>), a bunch of worksites up the Kootenay Lake.



Sharon

**From:** John Harrison [mailto:jharrison@nwcouncil.org]  
**Sent:** Thursday, September 06, 2018 3:06 PM  
**To:** Grant, Sharon D (BPA) - EWB-4  
**Subject:** [EXTERNAL] RE: Question about some fish projects

Sharon: A couple of questions from the spreadsheet:

CRITFC law enforcement is not in Canada, is it?

|    |  |           |
|----|--|-----------|
|    | Tribal Conservation Enforcement-Columbia River Inter-tribal Fish |           |
| 23 | Commission (CRITFC)  |           |
| 24 | 2008-503-00  | 200779.94 |

And the Sherman Creek Hatchery, \$713,000? In BC?

|    |   |           |
|----|---|-----------|
| 11 | Sherman Creek Hatchery Operations and Maintenance (O&M) |           |
| 12 | 1994-049-00   | 713023.54 |

John

---

John Harrison

Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

**From:** Grant, Sharon D (BPA) - EWB-4 <sdgrant@bpa.gov>  
**Sent:** Thursday, September 06, 2018 2:58 PM  
**To:** John Harrison <jharrison@nwcouncil.org>  
**Subject:** RE: Question about some fish projects

Hi John,

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Anyway, I have attached the current list for FY17 (and have added project titles). Is this what you were looking for? Notice that the total is a little off as (you know) the totals change as folks complete their contracts and re-assess the cost per work element.

Let me know if you need more.

Sharon Grant  
Bonneville Power Administration  
5093-230-5215

**From:** John Harrison [mailto:jharrison@nwcouncil.org]  
**Sent:** Thursday, September 06, 2018 2:11 PM  
**To:** Grant, Sharon D (BPA) - EWB-4  
**Subject:** [EXTERNAL] Question about some fish projects

Hi, Sharon:  
In the attached table, do have a list, or do you know where I could find one, of all the projects in British Columbia?  
Thanks,  
John

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

**From:** John Harrison  
**Sent:** Tue Feb 26 11:22:48 2019  
**To:** Lane,Jeffrey W (BPA) - EWB-4  
**Cc:** Fisher,Daniel H (BPA) - PSR-6; Lennox,Alexander (BPA) - FTR-2; Read,Christine L (BPA) - EWB-4  
**Subject:** [EXTERNAL] RE: Rates question for our report on fish and wildlife costs  
**Importance:** Normal

Jeff, this looks fine regarding the spill surcharge, and thank you for the quick turnaround!  
I really appreciate the help.  
John

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

**From:** Lane,Jeffrey W (BPA) - EWB-4 <jwlane@bpa.gov>  
**Sent:** Tuesday, February 26, 2019 11:20 AM  
**To:** John Harrison <jharrison@nwcouncil.org>  
**Cc:** Fisher,Daniel H (BPA) - PSR-6 <dhhfisher@bpa.gov>; Lennox,Alexander (BPA) - FTR-2 <alennox@bpa.gov>; Read,Christine L (BPA) - EWB-4 <clread@bpa.gov>  
**Subject:** FW: Rates question for our report on fish and wildlife costs

Hello John,

Alex and Daniel asked me to chime in on your question regarding the F&W program and the spill surcharge. Hopefully this statement (refined by Alex) gets to your objective:

**The FY 2018 fish and wildlife budget was reduced by \$20 million when compared to the rate case forecast, from \$277 million to \$256 million. Actual direct spending in FY 2018 ended up at \$248 million. At the same time, though, BPA changed the attribution of corporate overhead costs and assigned more to fish & wildlife. This was done to better reflect how corporate organizations support fish and wildlife which ensured that these costs would be captured in the calculation of the 4(h)(10)(C) credit. As a result, the total spending appears as \$258 million in the total cost table.**

Also, please see the attached summary overview of the spill surcharge (thanks Daniel).

Thanks,  
Jeff

Jeff Lane

Manager | Business Ops Support (EWB), Fish & Wildlife  
Bonneville Power Administration  
[jwlane@bpa.gov](mailto:jwlane@bpa.gov) | Ph 503-230-3064

**From:** John Harrison [mailto:[jharrison@nwcouncil.org](mailto:jharrison@nwcouncil.org)]  
**Sent:** Tuesday, February 26, 2019 9:08 AM  
**To:** Lennox,Alexander (BPA) - FTR-2  
**Cc:** Fisher,Daniel H (BPA) - PSR-6  
**Subject:** [EXTERNAL] RE: Rates question for our report on fish and wildlife costs

Thanks, Alex. I like your edits, and I look forward to hearing from Daniel. Thanks for including him.

I have a corollary question for you, which has to do with the 2018 spill surcharge. Could you or Daniel provide a couple of sentences or a short paragraph explaining the spill surcharge in FY 2018, as I assume it affected the fish and wildlife budget. Also, is there a place in the reporting of actual costs where this shows up?

John

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

**From:** Lennox,Alexander (BPA) - FTR-2 <[alennox@bpa.gov](mailto:alennox@bpa.gov)>  
**Sent:** Tuesday, February 26, 2019 8:55 AM  
**To:** John Harrison <[jharrison@nwcouncil.org](mailto:jharrison@nwcouncil.org)>  
**Cc:** Fisher,Daniel H (BPA) - PSR-6 <[dhfisher@bpa.gov](mailto:dhfisher@bpa.gov)>  
**Subject:** RE: Rates question for our report on fish and wildlife costs

I'm adding Daniel Fisher, the power rates manager, to the chain since this is squarely in his shop. I'm sure he'll have an opinion about your final question. As for the paragraph, I suggest some edits. Actuals are always different than the forecast but not always lower. Actuals can always be higher.

The question of what happens to the difference between the forecast and actual results in an interesting one. One of the challenges is that all of the variables used to compute rate change as we move forward in time. Generally though we do everything we can to avoid changing rates during the rate period. If we are seeing poor secondary sales results in an operating year, we may make changes to budgets to try to offset the lost revenue. This happened to the fish and wildlife budget last year. If the cost of fish and wildlife is lower than originally forecast, it doesn't mean that power is suddenly flush with cash. It generally offsets higher costs or lower revenues elsewhere. Power has actually seen its financial reserves decline quite a bit over the last decade.

**From:** John Harrison [mailto:jharrison@nwcouncil.org]  
**Sent:** Tuesday, February 26, 2019 8:29 AM  
**To:** Lennox,Alexander (BPA) - FTR-2  
**Subject:** [EXTERNAL] RE: Rates question for our report on fish and wildlife costs

Alex, I'm rethinking this a bit.

While I don't want to get into the particulars of the current rate case, I wonder if something more generic might work and also answer a lingering question about money collected in rates versus actual expenditures.

For example, what if I rewrote the paragraph along these lines:

-----

Fish and wildlife costs account for a significant portion of the rate Bonneville charges its wholesale power customers. Approximately one third of Bonneville's 2017-2019 wholesale rate of \$35.57 per megawatt hour is estimated to be associated with its fish and wildlife program. In setting rates, Bonneville estimates direct fish and wildlife costs and forgone revenues attributable to fish and wildlife for the rate period. ~~The amounts collected in rates generally are higher than the~~ Actual costs during a fiscal year **will differ from forecasts**. This is because the amounts included in rates are estimates of future costs, ~~not actual costs~~ **often made a rate case several years in advance. Actual costs will be determined by market price, streamflow, and other operational conditions during the operating year which can vary significantly from forecasts**. This report only includes actual fish and wildlife costs, as reported by Bonneville, not the estimated costs in rates.

-----

So the question one of my frequent pen pals on this report asks every year, and already has asked this year, is, how great is the difference, and what happens to the money that is collected for fish and wildlife in rates but not spent on fish and wildlife? In other words, there is a difference between forecasted costs and actual costs. The forecasted amount is collected. Where does it go?

Help.

John

---

John Harrison  
Information Officer

Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

**From:** Lennox, Alexander (BPA) - FTR-2 <alennox@bpa.gov>  
**Sent:** Monday, February 25, 2019 6:12 AM  
**To:** John Harrison <jharrison@nwcouncil.org>  
**Subject:** RE: Rates question for our report on fish and wildlife costs

My temptation is to delete it. The rate impact is really based on the forecast of costs, which you don't see, rather than actuals, which you do see. Actuals can be quite different than forecast with the financial impact of hydro operations being the huge wild card.

**From:** John Harrison [mailto:jharrison@nwcouncil.org]  
**Sent:** Friday, February 22, 2019 2:54 PM  
**To:** Lennox, Alexander (BPA) - FTR-2  
**Subject:** [EXTERNAL] Rates question for our report on fish and wildlife costs

Alex, this paragraph was in last year's report. I know we have a different rate case now. Should we update this paragraph, or just delete it for the new report?  
Thanks,  
John

BPA's forecast annual total power cost for the BP16 rate period was \$2.348 billion and includes \$535 million in direct fish and wildlife costs. In addition to BPA's forecast direct fish and wildlife costs, Bonneville estimated roughly \$200 million in forgone revenue for a total forecast annual fish and wildlife cost of \$735 million, which is 31 percent of \$2.348 billion, or approximately one-third, which is the approximate impact to rates. These estimates assume 2014 Biological Opinion operations and include the portion of costs allocated to non-power uses of the dams (Northwest Power Act Section 4(h)10(C)).

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

**From:** John Harrison  
**Sent:** Tue Feb 26 11:22:48 2019  
**To:** Lane,Jeffrey W (BPA) - EWB-4  
**Cc:** Fisher,Daniel H (BPA) - PSR-6; Lennox,Alexander (BPA) - FTR-2; Read,Christine L (BPA) - EWB-4  
**Bcc:** clead@bpa.gov; alennox@bpa.gov; dhfisher@bpa.gov  
**Subject:** [EXTERNAL] RE: Rates question for our report on fish and wildlife costs  
**Importance:** Normal

Jeff, this looks fine regarding the spill surcharge, and thank you for the quick turnaround!  
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**Cc:** Fisher,Daniel H (BPA) - PSR-6 <dhfisher@bpa.gov>; Lennox,Alexander (BPA) - FTR-2 <alennox@bpa.gov>; Read,Christine L (BPA) - EWB-4 <clead@bpa.gov>  
**Subject:** FW: Rates question for our report on fish and wildlife costs

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Also, please see the attached summary overview of the spill surcharge (thanks Daniel).

Thanks,  
Jeff

Jeff Lane

Manager | Business Ops Support (EWB), Fish & Wildlife

Bonneville Power Administration

[jwlanc@bpa.gov](mailto:jwlanc@bpa.gov) | Ph 503-230-3064

**From:** John Harrison [ <mailto:jharrison@nwcouncil.org> ]

**Sent:** Tuesday, February 26, 2019 9:08 AM

**To:** Lennox,Alexander (BPA) - FTR-2

**Cc:** Fisher,Daniel H (BPA) - PSR-6

**Subject:** [EXTERNAL] RE: Rates question for our report on fish and wildlife costs

Thanks, Alex. I like your edits, and I look forward to hearing from Daniel. Thanks for including him.

I have a corollary question for you, which has to do with the 2018 spill surcharge. Could you or Daniel provide a couple of sentences or a short paragraph explaining the spill surcharge in FY 2018, as I assume it affected the fish and wildlife budget. Also, is there a place in the reporting of actual costs where this shows up?

John

---

John Harrison

Information Officer

Northwest Power and Conservation Council

503-222-5161 (office)

(b)(6) (cell)

**From:** Lennox,Alexander (BPA) - FTR-2 <[alennox@bpa.gov](mailto:alennox@bpa.gov)>

**Sent:** Tuesday, February 26, 2019 8:55 AM

**To:** John Harrison <[jharrison@nwcouncil.org](mailto:jharrison@nwcouncil.org)>

**Cc:** Fisher,Daniel H (BPA) - PSR-6 <[dhfisher@bpa.gov](mailto:dhfisher@bpa.gov)>

**Subject:** RE: Rates question for our report on fish and wildlife costs

I'm adding Daniel Fisher, the power rates manager, to the chain since this is squarely in his shop. I'm sure he'll have an opinion about your final question. As for the paragraph, I suggest some edits. Actuals are always different than the forecast but not always lower. Actuals can always be higher.

The question of what happens to the difference between the forecast and actual results in an interesting one. One of the challenges is that all of the variables used to compute rate change as we move forward in time. Generally though we do everything we can to avoid changing rates during the rate period. If we are seeing poor secondary sales results in an operating year, we may make changes to budgets to try to offset the lost revenue. This happened to the fish and wildlife budget last year. If the cost of fish and wildlife is lower than originally forecast, it doesn't mean that power is suddenly flush with cash. It generally offsets higher costs or lower revenues elsewhere. Power has actually seen its financial reserves decline quite a bit over the last decade.

**From:** John Harrison [mailto:jharrison@nwcouncil.org]  
**Sent:** Tuesday, February 26, 2019 8:29 AM  
**To:** Lennox,Alexander (BPA) - FTR-2  
**Subject:** [EXTERNAL] RE: Rates question for our report on fish and wildlife costs

Alex, I'm rethinking this a bit.

While I don't want to get into the particulars of the current rate case, I wonder if something more generic might work and also answer a lingering question about money collected in rates versus actual expenditures.

For example, what if I rewrote the paragraph along these lines:

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Fish and wildlife costs account for a significant portion of the rate Bonneville charges its wholesale power customers. Approximately one third of Bonneville's 2017-2019 wholesale rate of \$35.57 per megawatt hour is estimated to be associated with its fish and wildlife program. In setting rates, Bonneville estimates direct fish and wildlife costs and forgone revenues attributable to fish and wildlife for the rate period. ~~The amounts collected in rates generally are higher than the~~ Actual costs during a fiscal year **will differ from forecasts**. This is because the amounts included in rates are estimates of future costs, ~~not actual costs~~ **often made a rate case several years in advance. Actual costs will be determined by market price, streamflow, and other operational conditions during the operating year which can vary significantly from forecasts**. This report only includes actual fish and wildlife costs, as reported by Bonneville, not the estimated costs in rates.

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So the question one of my frequent pen pals on this report asks every year, and already has asked this year, is, how great is the difference, and what happens to the money that is collected for fish and wildlife in rates but not spent on fish and wildlife? In other words, there is a difference between forecasted costs and actual costs. The forecasted amount is collected. Where does it go?

Help.

John

---

John Harrison  
Information Officer

Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

**From:** Lennox, Alexander (BPA) - FTR-2 <alennox@bpa.gov>  
**Sent:** Monday, February 25, 2019 6:12 AM  
**To:** John Harrison <jharrison@nwcouncil.org>  
**Subject:** RE: Rates question for our report on fish and wildlife costs

My temptation is to delete it. The rate impact is really based on the forecast of costs, which you don't see, rather than actuals, which you do see. Actuals can be quite different than forecast with the financial impact of hydro operations being the huge wild card.

**From:** John Harrison [mailto:jharrison@nwcouncil.org]  
**Sent:** Friday, February 22, 2019 2:54 PM  
**To:** Lennox, Alexander (BPA) - FTR-2  
**Subject:** [EXTERNAL] Rates question for our report on fish and wildlife costs

Alex, this paragraph was in last year's report. I know we have a different rate case now. Should we update this paragraph, or just delete it for the new report?  
Thanks,  
John

BPA's forecast annual total power cost for the BP16 rate period was \$2.348 billion and includes \$535 million in direct fish and wildlife costs. In addition to BPA's forecast direct fish and wildlife costs, Bonneville estimated roughly \$200 million in forgone revenue for a total forecast annual fish and wildlife cost of \$735 million, which is 31 percent of \$2.348 billion, or approximately one-third, which is the approximate impact to rates. These estimates assume 2014 Biological Opinion operations and include the portion of costs allocated to non-power uses of the dams (Northwest Power Act Section 4(h)10(C)).

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John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

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**From:** Stacy Horton <SHorton@NWCouncil.org>  
**Sent:** Wednesday, September 26, 2018 9:07 AM  
**To:** Read,Christine L (BPA) - EWB-4; Grant,Sharon D (BPA) - EWB-4; John Harrison  
**Subject:** [EXTERNAL] RE: Question on BPA budget contact

Christine,  
Thanks again! Is there a budget-to-actuals report on cbfish?  
Stacy

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**From:** Read,Christine L (BPA) - EWB-4 <clead@bpa.gov>  
**Sent:** Wednesday, September 26, 2018 9:01 AM  
**To:** Stacy Horton <SHorton@NWCouncil.org>; Grant,Sharon D (BPA) - EWB-4 <sdgrant@bpa.gov>; John Harrison <jharrison@nwcouncil.org>  
**Subject:** RE: Question on BPA budget contact

The whole report is just about budgets. The value also includes any increases (from BOG, accord rules, other increases).

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**From:** Stacy Horton [<mailto:SHorton@NWCouncil.org>]  
**Sent:** Wednesday, September 26, 2018 8:59 AM  
**To:** Read,Christine L (BPA) - EWB-4; Grant,Sharon D (BPA) - EWB-4; John Harrison  
**Subject:** [EXTERNAL] RE: Question on BPA budget contact

Christine –  
Thank You for the information! I now understand the differences in the data- and they are both really useful tools. I just want to be clear on one point- for the “Budget History & Forecast report” – for a project that lists a budget of ‘X’ in 2005- is the budget number represented the project budget at the time budgeted in 2005? Or does the 2005 ‘X’ value represent an ‘actual’ budget expenditure?  
Thank You for your assistance!  
Stacy

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**From:** Read,Christine L (BPA) - EWB-4 <clead@bpa.gov>  
**Sent:** Tuesday, September 25, 2018 5:01 PM  
**To:** Grant,Sharon D (BPA) - EWB-4 <sdgrant@bpa.gov>; Stacy Horton <SHorton@NWCouncil.org>; John Harrison <jharrison@nwcouncil.org>  
**Subject:** RE: Question on BPA budget contact

I will also add, the “Budget History & Forecast report” you mention below is only looking at the Project budgets. That is, the highest value we can contract for a 12-month cycle regardless of when the contract starts. Sometimes, we will do a 1,2,3+ month extension to finish something, but generally speaking, it is for a 12-month period. Again, this is different than the values you see in the Gov report which represent cash out the door, sum of all our checks, however you want to describe us spending the money.

In Sharon’s example below, the expenditures closely match the budget. That means the contracts under this project spend most or all of the budget. Plus, there are not major jumps in work. In other projects, you may see those values differ – it is based on timing, type of work, etc.

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**Christine Read**  
Program Analyst  
BPA | F&W Division  
[clread@bpa.gov](mailto:clread@bpa.gov)  
(503) 230-5321

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**From:** Grant, Sharon D (BPA) - EWB-4  
**Sent:** Tuesday, September 25, 2018 4:00 PM  
**To:** Stacy Horton; John Harrison  
**Cc:** Read, Christine L (BPA) - EWB-4  
**Subject:** RE: Question on BPA budget contact

Stacy,

The Project Budget is an amount determined for all project expenditures which is set ahead of time, and possibly modified along the way, for a given fiscal year (FY). The contracts and other expenditures (internal costs such as property purchase costs or PIT tags) must be kept within the Budget guidelines for everything that starts that FY, even if the contract starts 11 months into the FY. The **Budget History and Forecast** report that you mentioned is such a report.

For example, 1982-013-01 has the following for FY17:

|   |           |   |
|---|-----------|---|
| FY 17 <b>Project Budget</b> (BPA decision) (The Budget History and Forecast Report will use this number)  | \$374,313 | Allocations to the project from the various funds, in this case it is all BiOp FCRPS 2008 (non-Accord).   |
| Actual FY17 <b>Project Expenditures</b> /invoices paid plus accruals (strictly based on costs within the FY)  | \$364,147 | Expenditures attributed to the project in the specific time frame of the FY (Oct. to Sept.) <b>Used in Governors Report</b> , without regard to the contract's date range.                          |
| <b>Contracts</b> /internal invoiced <b>Expenditures</b> for a project which start in FY17 as of date of inquiry (9/25/18)   | \$374,273 | In this case, only covers invoices for Contract 74269 (1/1/17 to 12/31/17) and Contract 75495 (4/1/17 to 3/31/18). It does not take into account when the invoice was paid or for what time period. |
| <b>Contract Budgets</b> started in FY17, if <i>Closed</i> , \$ will not change but if still unclosed ( <i>Issued</i> ) can still be modified, but in this case all contracts are closed | \$374,273 | This would also be different if a contract was not yet closed. At closing the contract total is reduced to total invoiced expenditures. This represents the contracted value.                       |

Maybe important words to distinguish here are Budget vs. Expenditures, and Project vs. Contract when dealing with how amounts are determined.

Your Costs Report (we usually call it the Governors Report) only deals with actual costs that have occurred during that specific fiscal year, along with accrual entries that are trued up the following year.

Let me know if I can offer any further explanation or reporting assistance with this. And hopefully I didn't create more questions than answers!

Sharon Grant  
503-230-5215

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**From:** Stacy Horton [<mailto:SHorton@NWCouncil.org>]  
**Sent:** Tuesday, September 25, 2018 9:09 AM  
**To:** Grant, Sharon D (BPA) - EWB-4; John Harrison  
**Cc:** Read, Christine L (BPA) - EWB-4  
**Subject:** [EXTERNAL] RE: Question on BPA budget contact

Sharon,

Thank You for the response, I may have some additional follow-up questions beyond my question below.

One question I have is about the 'portfolio' accounts- aren't these also 'actuals' for past data, and then I understand is forecast for anything beyond the current fiscal year. Is that correct? I want to be sure I understand what the portfolio data is representing.

Here's how BPA describes the Portfolio data:



The screenshot shows a report titled "Budget History and Forecast". To the left is a table with columns for "Project", "Account Type", "Budget", and "Fiscal Year". To the right of the table, there is a "Description" and "Dimensions" section. The description reads: "View historical and forecast project budgets for a maximum of ten contiguous fiscal years." The dimensions listed are: "Project, Account Type (Expense, Capital), Budget, Fiscal Year".

Thanks again for your assistance!

Stacy

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**From:** Grant, Sharon D (BPA) - EWB-4 <[sdgrant@bpa.gov](mailto:sdgrant@bpa.gov)>  
**Sent:** Tuesday, September 25, 2018 8:06 AM  
**To:** John Harrison <[jharrison@nwcouncil.org](mailto:jharrison@nwcouncil.org)>; Stacy Horton <[SHorton@NWCouncil.org](mailto:SHorton@NWCouncil.org)>  
**Cc:** Read, Christine L (BPA) - EWB-4 <[clread@bpa.gov](mailto:clread@bpa.gov)>  
**Subject:** RE: Question on BPA budget contact

Hi John and Stacy,

I asked our Accord fund guru to give me her take on your questions, without researching a specific number for a specific project.

From Chris Read:

The clear difference is the Cost report (Governors report) uses "actuals & accruals", therefore what we spent during the period of October-September of each year.

The accord documents are in terms of "budgets", that is what is the ceiling amount we can contract that given year. However, the accords have the ability to shift funds around, so I'm about 99.99% sure that the accord contract values will never match the original budgets identified in the accord documents.

The 2nd question of how we handle multiple proponents – generally speaking, we could break it down by the contracts. However if you are doing a portfolio by project, there is no easy way. I guess it all depends on the request and how precise (you) want the returned data; easy way would be to keep the multiple listed sponsors. The hard way would be to break down each project by who BPA is contracting with and pro-rate the budget that way (therefore multiple lines for each project, each year).

It is true we have to make sure we are comparing “apples to apples” in terms of whether we are looking at actuals vs. planned budgets, and whether something spans multiple fiscal years (i.e., contract cost) vs. collecting monthly costs to a project over a specific fiscal year (October to September).

Do you want us to look at specific data and determine why they are different? Do you have specific questions to determine whether the comparisons are accurate or are looking at costs differently? I would be glad to look those over.

Otherwise, you can call me, 503-230-5215. If you want to talk to Chris Read, our Accords analyst, her number is 503-230-5321.

Sharon Grant  
Fish & Wildlife  
Bonneville Power Administration

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**From:** John Harrison [<mailto:jharrison@nwcouncil.org>]  
**Sent:** Monday, September 24, 2018 4:43 PM  
**To:** Stacy Horton  
**Cc:** Grant, Sharon D (BPA) - EWB-4  
**Subject:** [EXTERNAL] RE: Question on BPA budget contact

Thanks, Stacy. I will send your questions to my source for the costs report numbers, Sharon Grant. I have found her very knowledgeable and easy to work with. Let's hope she can shed some light on the discrepancies.  
John

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John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

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**From:** Stacy Horton  
**Sent:** Monday, September 24, 2018 4:37 PM  
**To:** John Harrison <[jharrison@nwcouncil.org](mailto:jharrison@nwcouncil.org)>  
**Subject:** Question on BPA budget contact

Hi John,  
I read your article on n. pike earlier today- very informative and enjoyable read!!!! I really enjoyed it!

I am also developing a spreadsheet of all BPA project/proponent budgets from 2004 thru 2019, and have added in some columns for the Accord extensions through 2022.

When I compared my budget totals to the 'Cost Report', it became clear there must be some differences in data used. My source for data is [cbfish.org](http://cbfish.org), **Expense** portfolios 2004-2014, and 2015-2019, and the Accord numbers out of proposed Accord extensions, posted by BPA on their public outreach site. So all of my numbers originate from BPA, but do not align with the totals used by the Cost Report. Another issue is how BPA handles project budget divisions where multiple partners are listed as project proponents- divide equally amongst listed proponents? Other?

Can you share your BPA contact on the 'Cost Report', or have that person give me a call?

Thanks John!  
Stacy

Stacy Horton  
Policy Analyst, Biologist  
668 N. Riverpoint Blvd, Suite 133  
Spokane, WA 99202  
509-828-1329  
[shorton@nwcouncil.org](mailto:shorton@nwcouncil.org)



**From:** John Harrison  
**Sent:** Wed May 02 14:05:27 2018  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Subject:** [EXTERNAL] RE: Some questions on costs  
**Importance:** Normal

Thanks for the excellent, detailed replies, Sharon.  
If there are more questions I will get back to you.  
John

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John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

**From:** Grant, Sharon D (BPA) - EWU-4 [mailto:sdgrant@bpa.gov]  
**Sent:** Wednesday, May 02, 2018 2:00 PM  
**To:** John Harrison <jharrison@nwcouncil.org>  
**Subject:** RE: Some questions on costs

Hi John,

I have written in answers below to keep them with the questions. Let me know if there are further questions.

Sharon Grant  
Bonneville Power Administration

**From:** John Harrison [mailto:jharrison@nwcouncil.org]  
**Sent:** Tuesday, May 01, 2018 3:10 PM  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Subject:** [EXTERNAL] Some questions on costs

Hi, Sharon:  
We're going to release the costs report for public comment next week, and one of my eagle-eyed colleagues had some questions, to wit:

Fig. 3: Why the range of 2010-2017? Don't we have Bi-Op costs going back further in time?

We usually keep seven years of data on the reports and let previous years drop off. I can add earlier years back in if you want since they are already available from previous years. Just let me know.

Fig. 4: Should Oregon Chub now read as delisted? I saw the footnote- am referring to the category in the figure. For example: Chub, Oregon (endangered) Should this now

read Chub, Oregon (delisted)?

That sounds like it would be a good change. I can change and re-send my file if you want. Next year I am not going to leave it on the report, but wanted to recognize this time that this is now delisted...unless there is a request to keep it on the list for a while.

Fig. 5 and Fig. 6A: In the figures and supporting data tables, BPA's overhead is \$17M in one, and \$15M in the other.

Fig 5, by Fund. The Fund report categorizes funding differently, based on contributing funds. Here we categorized BPA Overhead as both types of funding:

**BPA Overhead** (only Project 2003-48-00, Internal Support) (\$14,542,931); and

**BPA Overhead – Technical Support** (various projects) (\$2,023,130).

Fig 6A, by Category. The footnote says "BPA's database identifies projects by their "Purpose" (general goal) and "Emphasis" (primary type of work, e.g., habitat restoration). BPA does not track its project management overhead against individual projects or contracts, so there is no easy or accurate way to allocate BPA overhead to specific purposes or emphases. Thus, in the above report, BPA includes its staffing to manage the 600-plus contracts in its fish and wildlife program in the category identified as Coordination (BPA Overhead), and its direct technical services contracts for Data Management and RM&E in those respective categories. "

**The bottom line:** Fig. 5 includes Internal Support plus Technical Support, whereas Fig. 6 only includes Internal Support. The Technical Support is categorized under the appropriate category identified by the project.

Fig. 7 'Programmatic' needs a definition.

The term "Programmatic" is used to describe projects whose purpose is broader than a specific project or region, but falls under the larger umbrella of the overall Fish and Wildlife *Program*. Examples within the RM&E emphasis are projects such as Coded Wire Tag, Climate Change Impacts, ISEMP, CSS, and Fish Passage Center.

Fig. 10: What is semi government? On the tab for this one- again, a different number for BPA's overhead.

The Local/Semi Government is used to include city, county, soil and water conservation districts, and watershed council entities in one category. If you want a copy of the list, just let me know.

As far as the BPA overhead category, here it includes BPA overhead costs, but also includes items that are non-contracted project costs such as PIT tag costs, utilities, advertising, NEPA, and expenses involving ancillary land acquisition expenses.

Help!  
Thanks,  
John

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John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)

(b)(6) [REDACTED] (cell)

**From:** John Harrison  
**Sent:** Fri Mar 15 12:35:53 2019  
**To:** Stacy Horton; Read,Christine L (BPA) - EWB-4  
**Cc:** Kerry Berg  
**Subject:** [EXTERNAL] RE: Request for Info  
**Importance:** Normal

Yes, thank you, Chris!  
John

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

**From:** Stacy Horton  
**Sent:** Friday, March 15, 2019 11:52 AM  
**To:** Read,Christine L (BPA) - EWB-4 <clread@bpa.gov>  
**Cc:** John Harrison <jharrison@nwcouncil.org>; Kerry Berg <kberg@nwcouncil.org>  
**Subject:** RE: Request for Info

Thank You Chris! Much appreciated – and we may be in touch!!!

**From:** Read,Christine L (BPA) - EWB-4 <clread@bpa.gov>  
**Sent:** Friday, March 15, 2019 11:50 AM  
**To:** Stacy Horton <SHorton@NWCouncil.org>; Read,Christine L (BPA) - EWB-4 <clread@bpa.gov>  
**Cc:** John Harrison <jharrison@nwcouncil.org>; Kerry Berg <kberg@nwcouncil.org>  
**Subject:** RE: Request for Info

Hi Stacy & others,  
Let me walk you through what I'm providing.

- \* Downloaded portfolio of all projects not in proposed
- \* Deleted those projects with \$0 (therefore closed or inactive projects during that timeframe)
- \* Determined accord/non-accord based on funding type for the 2016-2018 and 2019 timeframe
- \* The assigned A/R/W % for each project is available; however you will have to multiply it by the budget/expenditure you are interested in analyzing.
- \* The province/subbasin is provided, but as you know, there may be multiple for each project; so be careful in your analysis not to double count

So, even though the data is there, you will still have to do some manipulation based on what & how you are analyzing. If you need additional help, please let me know!

Thanks, Chris

**From:** Stacy Horton [mailto:SHorton@NWCouncil.org]  
**Sent:** Friday, March 15, 2019 10:51 AM  
**To:** Read,Christine L (BPA) - EWB-4  
**Cc:** John Harrison; Kerry Berg  
**Subject:** [EXTERNAL] RE: Request for Info

We appreciate it - Thank You Chris!

**From:** Read,Christine L (BPA) - EWB-4 <clread@bpa.gov>  
**Sent:** Friday, March 15, 2019 10:50 AM  
**To:** Stacy Horton <SHorton@NWCouncil.org>; Read,Christine L (BPA) - EWB-4 <clread@bpa.gov>  
**Cc:** John Harrison <jharrison@nwcouncil.org>; Kerry Berg <kberg@nwcouncil.org>  
**Subject:** RE: Request for Info

Hi Stacy,  
Sorry for the delay. I'm working on it right now!

Stay tuned.

**From:** Stacy Horton [mailto:SHorton@NWCouncil.org]  
**Sent:** Friday, March 15, 2019 10:47 AM  
**To:** Read,Christine L (BPA) - EWB-4  
**Cc:** John Harrison; Kerry Berg  
**Subject:** [EXTERNAL] RE: Request for Info

Chris,  
Thought I would give you a ping, as we are still interested in getting the requested information.  
Thank You for your help,  
Stacy

**From:** Stacy Horton  
**Sent:** Tuesday, March 05, 2019 10:51 AM  
**To:** 'Read,Christine L (BPA) - EWB-4' <clread@bpa.gov>  
**Cc:** John Harrison <jharrison@nwcouncil.org>; Kerry Berg <kberg@nwcouncil.org>

**Subject:** RE: Request for Info

Chris,

Thank You for helping us compile these budgets.

Can we get both working budget and expenditures for 2015-2019?

Then importantly, we need to know:

- For the 70-15-15 allocation, can you provide the following:
  - Sponsor;
  - **Subbasin; (key)**
  - Amount; (key)
  - accord - or not.

Thank You Chris!

Stacy

**From:** Read,Christine L (BPA) - EWB-4 <clread@bpa.gov>

**Sent:** Tuesday, March 05, 2019 10:44 AM

**To:** Stacy Horton <SHorton@NWCouncil.org>

**Cc:** John Harrison <jharrison@nwcouncil.org>; Kerry Berg <kberg@nwcouncil.org>

**Subject:** RE: Request for Info

Hi Stacy,

When you say amount, what are you hoping for?

- Working Budget – the ceiling value they can contract to for a 12-month period –or–
- Expenditures by FY – the value spent (including accruals) during the Federal Fiscal Year (October 1-September 30)

Also, what year(s) do you want to see – FY19, others?

My plan would be to download the project list which includes an estimated % associated with A/R/W. From there, I can apply the % to the amount. This is a different approach from the Gov report which looks at data down to the Work Element. I hope that is OK!

**From:** Stacy Horton [mailto:SHorton@NWCouncil.org]

**Sent:** Monday, March 04, 2019 10:21 AM

**To:** Read,Christine L (BPA) - EWB-4

**Cc:** John Harrison; Kerry Berg

**Subject:** [EXTERNAL] RE: Request for Info

That would be great. Thank You!

**From:** Read,Christine L (BPA) - EWB-4 <clread@bpa.gov>

**Sent:** Monday, March 04, 2019 10:20 AM

**To:** Stacy Horton <SHorton@NWCouncil.org>

**Cc:** John Harrison <jharrison@nwcouncil.org>; Kerry Berg <kberg@nwcouncil.org>

**Subject:** RE: Request for Info

Hi Stacy,

I have a few priorities I'm working on right now. Can I provide this later this week?

**From:** Stacy Horton [mailto:SHorton@NWCouncil.org]

**Sent:** Monday, March 04, 2019 10:15 AM

**To:** Read,Christine L (BPA) - EWB-4

**Cc:** John Harrison; Kerry Berg

**Subject:** [EXTERNAL] Request for Info

Chris,

A number of Council members and staff have formed a workgroup and need some information that we hope you can provide:

- For the 70-15-15 allocation, can you provide the following:
  - Sponsor;
  - **Subbasin; (key)**
  - Amount; (key)
  - accord - or not.

I'm guessing you may also have this information by project number, which would be great if you have it, but not essential at this time.

Thanks Chris!

Stacy

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**From:** John Harrison <jharrison@nwcouncil.org>  
**Sent:** Tuesday, March 05, 2019 8:28 AM  
**To:** Read,Christine L (BPA) - EWB-4  
**Subject:** [EXTERNAL] RE: Sorting fish cost numbers

That's perfect. Thanks you, Chris.  
John

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

---

**From:** Read,Christine L (BPA) - EWB-4 <clread@bpa.gov>  
**Sent:** Tuesday, March 05, 2019 7:32 AM  
**To:** John Harrison <jharrison@nwcouncil.org>  
**Subject:** RE: Sorting fish cost numbers

Hi John,  
I sent your request to our hatchery team. Check back in if you don't hear back from me or them with a reply. They will be fitting this discussion in with other priorities.

Thanks, Chris

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**From:** John Harrison [<mailto:jharrison@nwcouncil.org>]  
**Sent:** Monday, March 04, 2019 3:38 PM  
**To:** Read,Christine L (BPA) - EWB-4  
**Subject:** [EXTERNAL] FW: Sorting fish cost numbers

Chris, I don't know if you can help me with this, but Bill Bakke asks, below, some pretty specific questions related to costs of artificial production. I know you can't be as specific as he wants clear back to 1987, but I wonder if, as with other tables you have sent me, you can answer Bill's questions for the last nine or ten years. I also see he asks some questions about fish production that would not be in the cost information you work with. For that stuff, I'll just have to say I can't get it and don't know where to find it, which is true. I think he might be asking questions that would have been best answered by the Hatchery Scientific Review Group, and that was years ago.

If you can provide the financial information, it would **not** be for this year's cost report. I could use it for next year's report, though.

I'm sorry to bother you with this, but I don't know what else to do with Bill's request, and I think it might be information the Council members would be interested in.

John

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John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

**From:** Bill Bakke (b)(6)  
**Sent:** Monday, March 04, 2019 2:20 PM  
**To:** John Harrison <[jharrison@nwcouncil.org](mailto:jharrison@nwcouncil.org)>; Bill Bakke (b)(6)  
**Subject:** Re: Sorting fish cost numbers

John,

Thank you for the information I asked for. It is GREATLY appreciated. You asked me to write up my request for information on artificial production.

Cost Accounting for Artificial Production 1978 to 2018 (for annual reports)

- Cost of anadromous fish hatchery production:
- AP for anadromous fish harvest mitigation by species
  - subcategory AP for T&E anadromous species by species
  - subcategory AP for unmarked hatchery fish by species

I believe this covers the ground that I assume the Council and BPA would like to have for more specific cost accounting for AP of anadromous fish since this annual expense is considerable. This expense would include construction, O&M, marking, research, inventory of hatchery and wild returns, personnel and administrative costs for hatchery production. Right now the data provided does not foster a reliable cost accounting for the cost of artificial production of anadromous fish on an annual and on-going basis.

Information for each AP program that provides the information necessary to evaluate the cost per smolt, smolt survival rates and cost per harvestable adult and cost per direct financial value is necessary to provide cost accounting for each hatchery program. The categories to be included in this accounting are provided by the IEAB 2002 that would include the following:

Species name, smolt production #, operation cost per smolt, headquarters cost per smolt, captial cost per smolt, Average SAR, cost per harvestable adult. Direct financial value per harvestable adult and Cost to harvest value ratio.

Using these categories to determine cost to provide a harvested fish by species from hatchery programs in the basin is necessary information useful to the Council, public, tribes and agencies. When done on an annual basis the cost associated with the AP of anadromous fish by species would allow for accurate cost accounting of the AP in the Columbia River Basin.





**From:** John Harrison  
**Sent:** Thu Mar 14 13:36:13 2019  
**To:** Read,Christine L (BPA) - EWB-4  
**Subject:** [EXTERNAL] RE: Sorting fish cost numbers  
**Importance:** Normal

That's a great idea, Chris, and frankly I didn't expect you could answer Bill's question. He can do his own research. In the off chance, though, you might have something I wanted to ask.

Cheers, and thanks again for all your help.

John

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

**From:** Read,Christine L (BPA) - EWB-4 <cload@bpa.gov>  
**Sent:** Thursday, March 14, 2019 1:15 PM  
**To:** John Harrison <jharrison@nwcouncil.org>  
**Subject:** RE: Sorting fish cost numbers

Hi John,

Sorry for the delay in returning your message. BPA does not have the specific information that Bill requested. Maybe you could refer him to the general cost information available on cbfish.org and in the Council's annual reports to the Northwest governors.

Thanks, Chris

**From:** John Harrison [mailto:jharrison@nwcouncil.org]  
**Sent:** Monday, March 04, 2019 3:38 PM  
**To:** Read,Christine L (BPA) - EWB-4  
**Subject:** [EXTERNAL] FW: Sorting fish cost numbers

Chris, I don't know if you can help me with this, but Bill Bakke asks, below, some pretty specific questions related to costs of artificial production. I know you can't be as specific as he wants clear back to 1987, but I wonder if, as with other tables you have sent me, you can answer Bill's questions for the last nine or ten years. I also see he asks some questions about fish production that would not be in the cost information you work with. For that stuff, I'll just have to say I can't get it and don't know where to find it, which is true. I think he might be asking questions that would have been best answered by the Hatchery

Scientific Review Group, and that was years ago.

If you can provide the financial information, it would **not** be for this year's cost report. I could use it for next year's report, though.

I'm sorry to bother you with this, but I don't know what else to do with Bill's request, and I think it might be information the Council members would be interested in.

John

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John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

**From:** Bill Bakke (b)(6)  
**Sent:** Monday, March 04, 2019 2:20 PM  
**To:** John Harrison <jharrison@nwcouncil.org>; Bill Bakke (b)(6)  
**Subject:** Re: Sorting fish cost numbers

John,

Thank you for the information I asked for. It is GREATLY appreciated. You asked me to write up my request for information on artificial production.

Cost Accounting for Artificial Production 1978 to 2018 (for annual reports)

Cost of anadromous fish hatchery production:

- AP for anadromous fish harvest mitigation by species
- subcategory AP for T&E anadromous species by species
- subcategory AP for unmarked hatchery fish by species

I believe this covers the ground that I assume the Council and BPA would like to have for more specific cost accounting for AP of anadromous fish since this annual expense is considerable. This expense would include construction, O&M, marking, research, inventory of hatchery and wild returns, personnel and administrative costs for hatchery production. Right now the data provided does not foster a reliable cost accounting for the cost of artificial production of anadromous fish on an annual and on-going basis.

Information for each AP program that provides the information necessary to evaluate the cost per smolt, smolt survival rates and cost per harvestable adult and cost per direct financial value is necessary to provide cost accounting for each hatchery program. The categories to be

included in this accounting are provided by the IEAB 2002 that would include the following:

Species name, smolt production #, operation cost per smolt, headquarters cost per smolt, capital cost per smolt, Average SAR, cost per harvestable adult. Direct financial value per harvestable adult and Cost to harvest value ratio.

Using these categories to determine cost to provide a harvested fish by species from hatchery programs in the basin is necessary information useful to the Council, public, tribes and agencies. When done on an annual basis the cost associated with the AP of anadromous fish by species would allow for accurate cost accounting of the AP in the Columbia River Basin.

On Mon, Mar 4, 2019 at 9:55 AM John Harrison <jharrison@nwcouncil.org> wrote:

Bill, I did not hear back from you Friday, but I want to follow up on your request about anadromous funding.

In the big spreadsheet I sent you, look at the number in Line 9, Column AO: \$4.3459 billion. That is the total Bonneville spent on fish and wildlife, not including capital, since 1978/80. Our program did not come along until November 1982.

Generally, we have tried to dedicate 70 percent of funding for anadromous fish over the years. In the last 10 years, for example, the low was 61 percent and the high was almost 73 percent. So we're close.

Seventy percent of \$4,345,900,000 is  $(4,345,900,000 \times .70)$  \$3,042,130,000. So about \$3 billion. That might be as close as we can get to the approximate amount spent by Bonneville on anadromous fish over time.

John

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

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Bill Bakke



*“One lives with the ghosts of what was and the hunger for what could have been.”*

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**From:** John Harrison <jharrison@nwcouncil.org>  
**Sent:** Thursday, November 01, 2018 8:35 AM  
**To:** Lennox,Alexander (BPA) - FTR-2; Grant,Sharon D (BPA) - EWB-4  
**Subject:** [EXTERNAL] RE: That big table of F&W costs

Excellent!  
Thanks to both of you.  
John

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

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**From:** Lennox,Alexander (BPA) - FTR-2 <[alennox@bpa.gov](mailto:alennox@bpa.gov)>  
**Sent:** Thursday, November 01, 2018 8:30 AM  
**To:** Grant,Sharon D (BPA) - EWB-4 <[sdgrant@bpa.gov](mailto:sdgrant@bpa.gov)>; John Harrison <[jharrison@nwcouncil.org](mailto:jharrison@nwcouncil.org)>  
**Subject:** RE: That big table of F&W costs

The large table that we provide every year displays actual accrued spending. The CBFish numbers for FY17 (at least for this year) are what we forecast for spending in the IPR and which went into rates. Actual spending came in lower.

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**From:** Grant,Sharon D (BPA) - EWB-4  
**Sent:** Thursday, November 01, 2018 8:23 AM  
**To:** John Harrison  
**Cc:** Lennox,Alexander (BPA) - FTR-2  
**Subject:** FW: That big table of F&W costs

Hi John,

I am not sure if **the Cost of BPA F&W actions** table has yet been updated, but I included Alex Lennox on this to ask him directly.

I am reasonably certain that BPA Finances' actions table is accurate for actual costs. As far as the discrepancies you noted below, have you confirmed that you are comparing actuals to actuals, instead of rate case numbers, or SOY, to actuals? I talked to my boss, Jeff Lane, Manager of F&W Business Operations, and he thought this may be the case. He is currently working on answers to Tony Grover's questions so hopefully we can sort this out.

Thanks,

Sharon Grant  
Fish & Wildlife Program  
Bonneville Power Administration  
503-230-5215

---

**From:** John Harrison [<mailto:jharrison@nwcouncil.org>]

**Sent:** Wednesday, October 31, 2018 4:09 PM

**To:** Grant, Sharon D (BPA) - EWB-4

**Subject:** [EXTERNAL] That big table of F&W costs

Sharon, attached is the last version of what I call The Big Spreadsheet (all costs), and I'm writing to ask if there is an updated version. Our fish and wildlife division director Tony Grover is working with John Skidmore to develop a memo to our fish and wildlife committee for our November meeting on costs and cost reductions that will take place in the next fiscal year. Some of his numbers are different than the ones in the attached, specifically lines 13 (he has \$33.4 million; we have \$26 million) and 18 (he has \$276.5 million; we have \$254.7 million) for 2017. He told me he got his numbers from CBFish, and I have no idea where they get them or what they add together to get totals. Anyway, I just wanted to ask you if there is an update of this spreadsheet.

Thanks,

John

---

John Harrison

Information Officer

Northwest Power and Conservation Council

503-222-5161 (office)

(b)(6) (cell)

**From:** John Harrison  
**Sent:** Wed Feb 13 11:25:33 2019  
**To:** Read,Christine L (BPA) - EWB-4  
**Subject:** [EXTERNAL] Re: 2018 Gov. Report  
**Importance:** Normal

Hi, Chris:  
First, thank you!

(b)(6) plan to be back in the office Thursday. I don't speak acronym well, so you will have to remind me what G&A means. And yes, if you could provide a written explanation for the report, that would be great. I will get back to you soon, but I don't think we will need any additional tables -- the ones from last year should be fine.

John

---

**From:** Read,Christine L (BPA) - EWB-4 <clread@bpa.gov>  
**Sent:** Tuesday, February 12, 2019 5:26 PM  
**To:** John Harrison  
**Cc:** Read,Christine L (BPA) - EWB-4  
**Subject:** 2018 Gov. Report

Hi John,  
I hope you are doing well. I have for you the 2018 tables for the Gov Report.

There is one major change this year that I will try to explain, but I know I need to provide you a more "official" explanation that you can use in the document.

In the past, our F&W program consisted of all the contracts, land purchases, overhead (including staff, travel, G&A, etc). However, starting in FY18, our finance office adjusted the G&A portion and how they charged it to the different organizations (i.e. F&W division). Previously, it was a line item just like my salary, benefits and part of the overall capital/expense spending. Now they removed that payment from the F&W program, BUT they still include it as a fish cost in the 4(h)(10)(C) credit table. So, I was instructed to include it in our external reporting as well. So you will see in some areas that our Overhead decreased, but that G&A was recalculated and moved elsewhere (and costs a lot more based on what I see).

The same is true for the CRSO EIS line item. It is included in the 4(h)(10)(C) credit table, but not part of the F&W program spending.

The tables that show Total Spent will include the G&A/CRSO EIS values. The tables that just show how much was spent on a certain element (just RME for example) do not have those values added. I have an added note for those that it applies; I just don't have the write-up yet.

As for the tables, I just followed the tables used in last year's report. If you need additional tables, let me know!

Thanks, Chris

><(//)> ><(//)> ><(//)>

**Christine Read**

Program Analyst  
BPA | F&W Division  
cread@bpa.gov  
(503) 230-5321

**From:** John Harrison  
**Sent:** Wed Jan 23 08:18:07 2019  
**To:** Read,Christine L (BPA) - EWB-4; Grant,Sharon D (BPA) - EWB-4  
**Cc:** Lennox,Alexander (BPA) - FTR-2  
**Bcc:** clead@bpa.gov; sdgrant@bpa.gov  
**Subject:** [EXTERNAL] Re: Cost of F&W Actions  
**Importance:** Normal

Hi, Chris. Thanks for doing this!  
All at the same time would be fine.

John

John Harrison  
(b)(6)  
Jharrison@nwcouncil.org

----- Original message -----

**From:** "Read,Christine L (BPA) - EWB-4" <clread@bpa.gov>  
**Date:** 1/23/19 7:55 AM (GMT-08:00)  
**To:** John Harrison <jharrison@nwcouncil.org>, "Grant,Sharon D (BPA) - EWB-4" <sdgrant@bpa.gov>  
>  
**Cc:** "Lennox,Alexander (BPA) - FTR-2" <alennox@bpa.gov>, "Read,Christine L (BPA) - EWB-4" <clread@bpa.gov>  
**Subject:** RE: Cost of F&W Actions

Hi John,  
I'm just getting started on them. Do you want to receive them all together or should I send a few at a time?

**From:** John Harrison [mailto:jharrison@nwcouncil.org]  
**Sent:** Wednesday, January 23, 2019 7:45 AM  
**To:** Grant,Sharon D (BPA) - EWB-4  
**Cc:** Lennox,Alexander (BPA) - FTR-2; Read,Christine L (BPA) - EWB-4  
**Subject:** [EXTERNAL] Re: Cost of F&W Actions

Thanks, all!  
John

John Harrison

(b)(6)

Jharrison@nwcouncil.org

----- Original message -----

From: "Grant, Sharon D (BPA) - EWB-4" <sdgrant@bpa.gov>

Date: 1/23/19 7:32 AM (GMT-08:00)

To: John Harrison <jharrison@nwcouncil.org>

Cc: "Lennox, Alexander (BPA) - FTR-2" <alennox@bpa.gov>, "Read, Christine L (BPA) - EWB-4" <clread@bpa.gov>

Subject: RE: Cost of F&W Actions

Good morning John,

I'm forwarding this to Chris Read as she has kindly offered to take back the responsibilities of preparing the Governors Report tables for the BPA Fish and Wildlife program.

Thanks everyone,  
Sharon Grant

**From:** John Harrison [mailto:jharrison@nwcouncil.org]

**Sent:** Wednesday, January 23, 2019 7:19 AM

**To:** Lennox, Alexander (BPA) - FTR-2

**Cc:** Grant, Sharon D (BPA) - EWB-4

**Subject:** [EXTERNAL] Re: Cost of F&W Actions

Yes, there are about 10 of them. They come from Sharon Grant. I will copy her.  
John

----- Original message -----

From: "Lennox, Alexander (BPA) - FTR-2" <alennox@bpa.gov>

Date: 1/23/19 5:12 AM (GMT-08:00)

To: John Harrison <jharrison@nwcouncil.org>

Subject: RE: Cost of F&W Actions

Are there other tables that you need? The one I sent is updated for FY18 actuals.

**From:** John Harrison [mailto:jharrison@nwcouncil.org]

**Sent:** Tuesday, January 22, 2019 7:13 PM

**To:** Lennox, Alexander (BPA) - FTR-2

**Subject:** [EXTERNAL] Re: Cost of F&W Actions

Sorry. Alex, I meant FY 2018.  
John

----- Original message -----

From: "Lennox,Alexander (BPA) - FTR-2" <alennox@bpa.gov>

Date: 1/22/19 5:33 PM (GMT-08:00)

To: John Harrison <jharrison@nwcouncil.org>

Subject: RE: Cost of F&W Actions

Sometime after the close of FY19, next October. Hopefully not quite as late at this update though.

**From:** John Harrison [mailto:jharrison@nwcouncil.org]

**Sent:** Tuesday, January 22, 2019 4:22 PM

**To:** Lennox,Alexander (BPA) - FTR-2

**Subject:** [EXTERNAL] RE: Cost of F&W Actions

Thanks for this, Alex. It reminds me to ask when the tables of FY19 costs be available.

John

---

John Harrison

Information Officer

Northwest Power and Conservation Council

503-222-5161 (office)

(b)(6) (cell)

**From:** Lennox,Alexander (BPA) - FTR-2 <alennox@bpa.gov>

**Sent:** Friday, January 18, 2019 2:17 PM

**To:** Lennox,Alexander (BPA) - FTR-2 <alennox@bpa.gov>

**Subject:** Cost of F&W Actions

Attached is the Excel file showing the history of the costs of fish & wildlife actions updated with FY 2018 results. Feel free to contact me if you have questions.

Alex Lennox

Financial Analyst

503.230.3460

*"One characteristic of forecasts is that they are nearly always wrong ..."*

*W.F. Matlack, Statistics for Public Managers, 1993, 301.*

---

**From:** John Harrison <jharrison@nwcouncil.org>  
**Sent:** Tuesday, May 01, 2018 3:10 PM  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Subject:** [EXTERNAL] Some questions on costs

Hi, Sharon:

We're going to release the costs report for public comment next week, and one of my eagle-eyed colleagues had some questions, to wit:

Fig. 3: Why the range of 2010-2017? Don't we have Bi-Op costs going back further in time?

Fig. 4: Should Oregon Chub now read as delisted? I saw the footnote- am referring to the category in the figure. For example: Chub, Oregon (endangered) Should this now read Chub, Oregon (delisted)?

Fig. 5 and Fig. 6A: In the figures and supporting data tables, BPA's overhead is \$17M in one, and \$15M in the other.

Fig. 7 'Programmatic' needs a definition.

Fig. 10: What is semi government? On the tab for this one- again, a different number for BPA's overhead.

Help!  
Thanks,  
John

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

**From:** Cogswell, Peter (BPA) - DI-7

**Sent:** Tue Nov 20 13:58:11 2018

**Required:** 'tkarier@nwcouncil.org'; Armentrout, Scott G (BPA) - E-4; Welch, Dorothy W (BPA) - E-4; Skidmore, John T (BPA) - EW-4; Read, Christine L (BPA) - EWB-4

**Subject:** F&W Budget Trends

**Location:** By phone: (b)(2) P/C: (b)(2)

**Start time:** Tue Nov 27 14:00:00 2018

**End time:** Tue Nov 27 15:00:00 2018

**Importance:** Normal

**From:** Cogswell, Peter (BPA) - DI-7

**Sent:** Tue Nov 27 13:01:55 2018

**Required:** 'tkarier@nwcouncil.org'; Armentrout, Scott G (BPA) - E-4; Welch, Dorothy W (BPA) - E-4; Skidmore, John T (BPA) - EW-4; Read, Christine L (BPA) - EWB-4

**Subject:** F&W Budget Trends

**Location:** Scotts office and By phone: (b)(2) P/C: (b)(2)

**Start time:** Tue Nov 27 14:00:00 2018

**End time:** Tue Nov 27 15:00:00 2018

**Importance:** Normal

**From:** Cogswell, Peter (BPA) - DI-7

**Sent:** Tue Nov 27 14:00:00 2018

**To:** Cogswell, Peter (BPA) - DI-7; tkarier@nwcouncil.org; Armentrout, Scott G (BPA) - E-4; Welch, Dorothy W (BPA) - E-4; Skidmore, John T (BPA) - EWL-4; Read, Christine L (BPA) - EWB-4

**Subject:** F&W Budget Trends

**Importance:** Normal

**Subject:**

**Location:**

**Importance:**

**Start:**

**End:**

**Body:**

F&W Budget Trends

Scotts office and By phone: (b)(2) P/C:

(b)(2)

Normal

2018-11-27 22:00:00Z

2018-11-27 23:00:00Z

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border-left: #800000 2px solid; } --></style> <
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<div>&nbsp;</div> </span></font> </body> <
/html>
```

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**From:** Read,Christine L (BPA) - EWB-4 <clread@bpa.gov>  
**Sent:** Tuesday, April 09, 2019 7:27 AM  
**To:** John Harrison  
**Cc:** Read,Christine L (BPA) - EWB-4  
**Subject:** FW: Help with some numbers - need review/concurrence from senior mgmt on Gov Report language

Hi John,  
BPA reviewed the wording below and added a few items (in blue & orange). Otherwise, the corrections in red work for us.

Thanks, Chris

---

**From:** John Harrison [<mailto:jharrison@nwcouncil.org>]  
**Sent:** Friday, April 05, 2019 1:21 PM  
**To:** Read,Christine L (BPA) - EWB-4  
**Subject:** [EXTERNAL] Help with some numbers

Chris, in response to our request for comments on the draft annual report on fish and wildlife costs, Tom Iverson submitted some proposed edits. In the text below, black is my original and red is Tom. Do Tom's edits make sense to you?

Thanks,  
John

- Page 6: First paragraph under 2018 spill surcharge – “To make up for **projected** lost revenue, Bonneville ~~charged~~ **reduced** the **annual** fish and wildlife budget \$20 million.”
- Page 6: Third paragraph under 2018 spill surcharge – “The spill surcharge ~~was~~ **is** calculated independently for each year of the FY 2018-2019 rate period based on planned spill operations for each year. **For Fiscal Year 2018, the estimated cost for court ordered spill was \$38.6 million. To address this cost, in addition to secondary revenues and a \$10.1 million spill surcharge to customers, the**~~The Fiscal Year 2018~~ fish and wildlife budget was reduced by \$20 million when compared to the rate case forecast, from \$277 million to \$256 million **for Fiscal Year 2018**. Actual direct spending in Fiscal Year 2018 was \$248 million. **BPA has proposed there will be no spill surcharge for Fiscal Year 2019. The additional cost of spill will be offset through fish and wildlife program reductions in Fiscal Year 2019 compared to those assumed for setting rates.”** ~~It is not known if the spill surcharge will be necessary in Fiscal Year 2019, but the fish and wildlife budget reduction will remain.”~~
- Page 6: Fourth paragraph under 2018 spill surcharge – “~~At the same time, though,~~ **In addition to the \$20 million annual budget reduction,** Bonneville changed the allocation ~~methodology for~~ **of** agency-wide overhead costs in FY18 and assigned ~~more—an additional~~ \$10 million ~~—of internal costs~~ **to the** fish and wildlife **program,** a net increase of approximately \$6M in overhead costs but which is also partially offset by an increase in the 4h10c credit calculation.”

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)

(b)(6) (cell)

**From:** Grant, Sharon D (BPA) - EWU-4  
**Sent:** Thu Feb 22 16:32:24 2018  
**To:** Harrison, John (jharrison@nwcouncil.org)  
**Subject:** FW: Annual report on fish and wildlife costs  
**Importance:** Normal  
**Attachments:** Tables list for Annual F&W cost report.docx; [EXTERNAL] RE: Individual contractors for annual report on F&W costs

Hi John,

I'm moving along on the tables for your annual report, and am wondering about the tables you will need (attached my list).

I saw an email dated June 2017 where we discussed something different than what I send last year for the Contractor list. I attached it here but can't remember if this is something different than the file I sent you last year (attached here as well). Is there something else I sent?

My biggest problem right now is the new Pisces (Web – cbfish.org) that still has a few quirks, like rounding to the dollar and arriving at an erroneous total. Such is life!! I have a couple of requests for updates, and then I'm going for broke next week. The plan is to at least have the files to Bryan Mercier by March 6 when I leave on vacation. I will ask his admin to forward you the files if I don't get them back before I return (March 20).

Hey, I even have my taxes ready for the Accountant now!

Sharon Grant  
Bonneville Power Administration  
503-230-5215

**From:** Grant, Sharon D (BPA) - EWU-4  
**Sent:** Thursday, January 18, 2018 9:13 AM  
**To:** 'John Harrison'  
**Subject:** RE: Annual report on fish and wildlife costs

Hi John,

Good question 😊

I have been thinking hard about it but am now just been able to see the possibility of allotting time. The other part is getting our software folks (for Pisces) to re-figure ESA-listed fish spending to NOT include de-listed fish, in this case Oregon Chub. Last year didn't go so good for that, but they promise to fix it by next month. Does early to mid-March work for you?

Let check in an a couple of weeks and see if there's anything different you need and how close I'm getting to the final product.

It's like taxes, once January 1 hits, you just can't get it off your mind!

Sharon Grant  
Bonneville Power Administration  
503-230-5215

**From:** John Harrison [mailto:jharrison@nwcouncil.org]  
**Sent:** Thursday, January 18, 2018 9:06 AM  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Subject:** [EXTERNAL] Annual report on fish and wildlife costs

Hi, Sharon:  
It's that time again for me to ask you when you think you might have the numbers for the last fiscal year available for our annual report on fish and wildlife costs.  
Cheers,

John

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

## Annual Report Tables for Council

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- Table 1. Total F&W Costs (Comes from BPA Finance – Alex Linnox)
- Table 2. Direct Program Expenditures by Species (Anadromous, Resident, Wildlife, Support)
- Table 3. Direct Program Expenditures for FCRPS BiOp Projects
- Table 4. Direct Program Expenditures by Fund
- Table 5. Direct Program Expenditures by Category
- Table 6A. Direct Program Expenditures for Research, Monitoring and Evaluation
- Table 6B. Direct Program Expenditures for Artificial Production
- Table 7. Direct Program Expenditures by Province
- Table 8. Costs by Work Element Location (State)
- Table 9. Direct Program Expenditures by Contractor Type
- Table 10. Direct Program Expenditures for Land Acquisitions for F&W Habitat
- Table 11. Direct Program Expenditures Artificial Production by Emphasis

From: Harrison, John

Sent: Mon Jun 05 11:54:10 2017

To: Grant, Sharon D (BPA) - EWU-4

Subject: [EXTERNAL] RE: Individual contractors for annual report on F&W costs

Importance: Normal

Sharon, just a note to say thanks again for sending this over – and so promptly. The updated plan will be in front of the Council next week for approval for public comment, and because there are not enough days between our June and July meetings for 30 days of comment, the final approval will be at the August meeting.

We should plan – you should plan – on sending the same contractor files – seven years of tracking and one year's expenses – for future reports. Looks like the Council members now want that in the report.

Cheers,

John

**From:** Grant, Sharon D (BPA) - EWU-4 [<mailto:sdgrant@bpa.gov>]

**Sent:** Tuesday, May 09, 2017 10:14 AM

**To:** Harrison, John <jharrison@nwcouncil.org>

**Subject:** RE: Individual contractors for annual report on F&W costs

Don't laugh. Bryan Mercier asked me to put it together so he could take a look at the list. Now that I look at what we have done in the past, I am not perfectly sure what you want. I have attached the List(s) I sent for FY14, which is:

1) The list "by Contractor Type" which includes a list under each including 7 years tracking; and

2) A list of “other” that only includes one year’s expenses.

We have up through this year (FY16) included #1 above that not only is by contractor type, but includes the larger contractors. I also added that file to the attachments.

I feel like I’m missing the point, I think, because the difference is the List #2 which did not include various years of comparison. Is that what you are looking for?

Sharon Grant

503-230-5215

**From:** Harrison, John [<mailto:jharrison@nwcouncil.org>]  
**Sent:** Thursday, May 04, 2017 4:05 PM  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Subject:** RE: Individual contractors for annual report on F&W costs

Perfect. Thanks!

**From:** Grant, Sharon D (BPA) - EWU-4 [<mailto:sdgrant@bpa.gov>]  
**Sent:** Thursday, May 04, 2017 3:00 PM  
**To:** Harrison, John <[jharrison@nwcouncil.org](mailto:jharrison@nwcouncil.org)>  
**Subject:** RE: Individual contractors for annual report on F&W costs

The funny thing is I don’t know which Tony! I’m quoting Bryan!

Like I said the report is mostly done, so as soon as I hear, I will get it to you in

short order.

Sharon

**From:** Harrison, John [<mailto:jharrison@nwcouncil.org>]  
**Sent:** Thursday, May 04, 2017 12:59 PM  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Cc:** Walker, Mark  
**Subject:** RE: Individual contractors for annual report on F&W costs

OK, thanks, Sharon. I think we decided against it last year because we thought it was too much detail, but now we have two Council members who have asked for us to reinstate it in the report, if possible.

I appreciate your help. I look forward to hearing from you. I'm copying our Public Affairs Director.

John

p.s. Which Tony do you mean?

**From:** Grant, Sharon D (BPA) - EWU-4 [<mailto:sdgrant@bpa.gov>]  
**Sent:** Thursday, May 04, 2017 12:51 PM  
**To:** Harrison, John <[jharrison@nwcouncil.org](mailto:jharrison@nwcouncil.org)>  
**Subject:** RE: Individual contractors for annual report on F&W costs

Hi John,

I have talked to Bryan Mercier since I seem to remember there was some reason that particular report was excluded last year. He said he would talk internally and to Tony and see if that's the way we are going. The report shouldn't take too long to pull it together once I have his approval.

Have a warm day!

Sharon

**From:** Harrison, John [<mailto:jharrison@nwcouncil.org>]  
**Sent:** Thursday, May 04, 2017 10:29 AM  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Subject:** Individual contractors for annual report on F&W costs

Hi, Sharon:

A couple of our Council members want us to include in our annual report to the governors that long list of individual contractors and the amounts they have received over time. We dropped that last year because we thought it was too much detail, but now they want it back because, one said, 'it adds transparency' to the program and the report.

Question: Is this something you still can provide?

Thanks,

John

John Harrison

Northwest Power and Conservation Council

503-222-5161

[www.nwcouncil.org](http://www.nwcouncil.org)

**From:** Yarman, Jennifer A (CONTR) - EW-4  
**Sent:** Wed Mar 14 17:14:13 2018  
**To:** 'jharrison@nwcouncil.org'  
**Cc:** Grant, Sharon D (BPA) - EWU-4  
**Subject:** FW: NPCC Tables for Governors Report FY2017 ready to review  
**Importance:** Normal

**Attachments:** 2-Direct Program Expenditures by Species-Exp&Cap.xlsx; 3-Direct Program Expenditures of FCRPS BiOp projects.xlsx; 4-Direct Program Expenditures on ESA Listed Focal Species.xlsx; 4-FY16REV\_Direct Program Expenditures on ESA Listed Focal Species.xlsx; 5-Direct Program Expenditures by Fund.xlsx; 6a-Direct Program Expenditures by Category.xlsx; 6b-Direct Program Expenditures Artificial Production by emphasis.xlsx; 7-Direct Program Expenditures for RME.xlsx; 8-Direct Program Expenditures by Province.xlsx; 9-Direct Expenditures by Location-State.xlsx; 10-Direct Program Expenditures by Contractor Type.xlsx; 11-Direct Expenditures for Land Acquisitions.xlsx

Hi John,

Thanks for your patience. Bryan reviewed the attached spreadsheets and asked me to forward them out to you. Please let me know if there's anything else I can assist with before Sharon gets back.

Best regards,

*Jennifer Yarman*

Jennifer Yarman  
(CONTR) Salient CRGT  
Administrative Services Assistant III | Fish and Wildlife EW-4  
Bonneville Power Administration | Department of Energy  
bpa.gov | V: 503-230-4981 | F: 503-230-4563 | E: jayarman@bpa.gov

*Please consider the environment before printing this email*

**From:** Grant, Sharon D (BPA) - EWU-4  
**Sent:** Monday, March 05, 2018 5:53 PM  
**To:** Mercier, Bryan K (BPA) - EW-4; Lane, Jeffrey W (BPA) - EWB-4  
**Cc:** Yarman, Jennifer A (CONTR) - EW-4  
**Subject:** NPCC Tables for Governors Report FY2017 ready to review

Hi Bryan and Jeff,

I have finished the preliminary reports for John Harrison at the Council for the annual reports, and are ready for review.

All tables are revised for FY16, but only Table 4 requires a separate table as the rest are included in the 7-year reporting. Table 1 doesn't come from us, so not included.

Tables:

1. Total F&W Costs (comes from BPA Finance – Alex Linnox, directly to John)
2. Direct Program Expenditures by Species
3. Direct Program Expenditures for FCRPS BiOp Projects
4. Direct Program Expenditures on ESA Listed Focal Species (and there's a revised one for FY16)

5. Direct Program Expenditures by Fund
- 6A. Direct Program Expenditures by Category
- 6B. Direct Program Expenditures for Artificial Production
7. Direct Program Expenditures for Research, Monitoring and Evaluation
8. Direct Program Expenditures by Province
9. Direct Program Expenditures by Work Element Location (State)
10. Direct Program Expenditures by Contractor Type
11. Direct Program Expenditures for Land Acquisitions for F&W Habitat

| Direct Program Expenditures by Species, FY2017  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
|---|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Species Type  | 2006                 | 2007                 | 2008                 | 2007                 | 2010                 | 2011                 | 2012                 | 2013                 | 2014                 | 2015                 | 2016 <sup>1</sup>    | 2017                 |
| <b>Expense Expenditures</b>   |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| Anadromous Fish   | \$9,220,989          | \$9,380,709          | \$9,933,749          | \$11,544,411         | \$133,110,043        | \$132,268,152        | \$1,242,711          | \$152,998,813        | \$160,287,940        | \$181,979,432        | \$181,925,101        | \$1,500,231          |
| Resident Fish   | \$19,147,678         | \$20,466,591         | \$30,166,347         | \$30,945,448         | \$33,492,947         | \$38,469,660         | \$41,986,004         | \$39,747,604         | \$34,671,529         | \$36,131,999         | \$42,949,739         | \$41,693,701         |
| Wildlife  | \$7,380,452          | \$8,894,314          | \$10,153,866         | \$11,491,287         | \$12,105,809         | \$12,032,226         | \$13,214,570         | \$11,401,471         | \$11,970,486         | \$16,630,031         | \$14,091,922         | \$12,472,078         |
| Program Support   | \$14,113,271         | \$14,499,326         | \$14,420,375         | \$19,975,090         | \$20,260,752         | \$18,278,218         | \$21,130,593         | \$25,235,636         | \$24,850,807         | \$23,435,779         | \$13,174,409         | \$25,383,607         |
| CJH Cost Share  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| <b>Capital Expenditures</b>   |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| Anadromous Fish   | \$9,409,949          | \$9,730,655          | \$8,817,105          | \$11,123,909         | \$26,914,046         | \$56,777,879         | \$33,006,558         | \$32,488,551         | \$6,079,913          | \$10,173,636         | \$4,895,835          | \$122,159            |
| Resident Fish   | \$6,540,613          | \$777,724            | \$843,892            | \$10,279,652         | \$3,163,912          | \$20,472,138         | \$11,892,569         | \$8,440,507          | \$16,958,535         | \$2,603,198          | \$2,164,485          | \$241,089            |
| Wildlife  | \$19,462,457         | \$24,469,222         | \$6,525,720          | \$2,261,438          | \$9,564,849          | \$18,674,437         | \$15,853,187         | \$10,813,833         | \$14,438,818         | \$9,789,350          | \$6,973,342          | \$5,038,683          |
| Program Support <sup>2</sup>  | \$1,141              | \$0                  | \$9,547,954          | \$3,747,363          | \$354,734            | -\$101,012           | \$42,215             | \$375,475            | -\$123,918           | -\$1,192,886         | -\$4,698             | \$0                  |
| CJH Cost Share  |                      |                      |                      |                      |                      | -\$5,658,821         | \$3,141,637          |                      |                      |                      |                      |                      |
| <b>TOTAL</b>  | <b>\$173,276,548</b> | <b>\$174,429,930</b> | <b>\$174,413,008</b> | <b>\$205,271,805</b> | <b>\$239,587,933</b> | <b>\$311,214,895</b> | <b>\$306,489,772</b> | <b>\$291,101,892</b> | <b>\$269,134,110</b> | <b>\$279,550,549</b> | <b>\$274,172,174</b> | <b>\$259,957,534</b> |
| Notes:  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| 1) Starting in 2008, Spending can be tracked back to a work element where the contractor explicitly identified the "Primary Focal Species" benefiting from the work.  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| 2) Program Support includes Includes contracts that contain only administrative work elements or program level spending that could not be mapped to a specific project, as well as BPA Internal overhead such as personnel costs. |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| 3) FY2016 revised as of February 21, 2018.  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |

| Direct Program Expenditures of FCRPS BiOp Projects, FY2017   |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
|--|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Category   | 2008                 | 2009                 | 2010                 | 2011                 | 2012                 | 2013                 | 2014                 | 2015                 | 2016 <sup>2</sup>    | 2017                 |
| Expense  | \$91,806,508         | \$113,900,603        | \$129,758,323        | \$143,477,289        | \$162,060,445        | \$151,177,409        | \$143,128,948        | \$165,362,221        | \$159,987,744        | \$156,828,473        |
| Capital  | \$9,869,097          | \$11,668,863         | \$21,761,323         | \$31,297,548         | \$29,240,857         | \$29,683,425         | \$5,925,196          | \$7,703,153          | \$1,249,955          | -\$396,792           |
| <b>TOTAL</b>   | <b>\$101,675,605</b> | <b>\$125,569,466</b> | <b>\$151,519,646</b> | <b>\$174,774,837</b> | <b>\$191,301,312</b> | <b>\$180,860,834</b> | <b>\$149,054,144</b> | <b>\$173,065,374</b> | <b>\$161,237,699</b> | <b>\$156,431,680</b> |
| <b>Notes:</b>  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| 1) Estimated spending is based at the project level. Therefore, if a project partially supports the FCRPS BiOp, all expenditures for the project are included. |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| 2) Passage projects were moved from Capital to Expense funding starting with FY16 contracts.   |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| 2) FY2016 reviewed as of February 21, 2018; no changes.  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |

| Direct Program Expenditures on ESA-Listed Fish, 2017  |                           |  |                        |                           |  |                        |                      |
|---|---------------------------|--|------------------------|---------------------------|--|------------------------|----------------------|
| ESA Listed Focal Species Name   | Expense "Direct" Spending | Expense "Contract Administration" Spending | Expense Total Spending | Capital "Direct" Spending | Capital "Contract Administration" Spending | Capital Total Spending | Total Spending       |
| Chinook - Lower Columbia River ESU (threatened)   | \$4,733,445               | \$1,540,959                                | \$6,274,404            | \$471,454                 | (\$4,992)                                  | \$466,463              | \$6,740,867          |
| Chinook - Snake River Fall ESU (threatened)   | \$8,893,203               | \$4,143,785                                | \$13,037,088           | \$0                       | \$0  | \$0                    | \$13,037,088         |
| Chinook - Snake River Spring/Summer ESU (threatened)  | \$19,971,809              | \$3,166,815                                | \$23,138,624           | \$0                       | \$0  | \$0                    | \$23,138,624         |
| Chinook - Upper Columbia River Spring ESU (endangered)  | \$8,868,306               | \$4,854,925                                | \$13,723,231           | (\$22,555)                | (\$641,759)                                | (\$664,314)            | \$12,808,917         |
| Chinook - Upper Willamette River ESU (threatened)   | \$3,320,557               | \$1,878,858                                | \$5,199,415            | \$0                       | \$0  | \$0                    | \$5,199,415          |
| Chum - Columbia River ESU (threatened)  | \$2,202,500               | \$445,003                                  | \$2,647,503            | \$0                       | \$0  | \$0                    | \$2,647,503          |
| Coho - Lower Columbia River ESU (threatened)  | \$2,534,026               | \$664,563                                  | \$3,198,590            | (\$25,842)                | (\$6,116)                                  | (\$31,958)             | \$3,166,632          |
| Sockeye - Snake River ESU (endangered)  | \$6,014,738               | \$1,263,844                                | \$7,278,582            | \$0                       | \$0  | \$0                    | \$7,278,582          |
| Steelhead - Lower Columbia River DPS (threatened)   | \$4,252,253               | \$1,168,950                                | \$5,421,204            | \$32,878                  | (\$6,116)                                  | \$26,763               | \$5,447,967          |
| Steelhead - Middle Columbia River DPS (threatened)  | \$27,726,471              | \$11,107,039                               | \$38,833,510           | \$0                       | \$0  | \$0                    | \$38,833,510         |
| Steelhead - Snake River DPS (threatened)  | \$20,696,643              | \$3,289,843                                | \$23,986,486           | \$0                       | \$0  | \$0                    | \$23,986,486         |
| Steelhead - Upper Columbia River DPS (endangered)   | \$10,252,030              | \$4,254,738                                | \$14,506,768           | \$3,432                   | \$2,422                                    | \$5,854                | \$14,498,022         |
| Steelhead - Upper Willamette River DPS (threatened)   | \$2,352,650               | \$1,445,513                                | \$3,798,163            | \$0                       | \$0  | \$0                    | \$3,798,163          |
| Chub, Oregon (endangered) <sup>4</sup>  | \$0                       | \$0  | \$0                    | \$0                       | \$0  | \$0                    | \$0                  |
| Cutthroat Trout, Lahontan (threatened)  | \$108,520                 | \$73,751                                   | \$182,271              | \$0                       | \$0  | \$0                    | \$182,271            |
| Sturgeon, White - Kootenai River DPS (endangered)   | \$7,940,398               | \$2,219,442                                | \$10,159,840           | \$0                       | \$0  | \$0                    | \$10,159,840         |
| Trout, Bull (threatened)  | \$9,611,764               | \$5,331,458                                | \$14,943,222           | \$0                       | \$0  | \$0                    | \$14,943,222         |
| <b>TOTAL</b>  | <b>\$140,430,308</b>      | <b>\$51,257,288</b>                        | <b>\$191,687,596</b>   | <b>\$457,367</b>          | <b>(\$856,340)</b>                         | <b>(\$398,973)</b>     | <b>\$191,290,804</b> |
| <b>Notes:</b>   |                           |  |                        |                           |  |                        |                      |
| 1) Direct spending can be tracked back to a work element where the contractor explicitly identified the "Primary Focal Species" benefiting from the work.                       |                           |  |                        |                           |  |                        |                      |
| 2) Contract Administration spending can be tracked back to a work element that did not require the contractor to identify the "Primary Focal Species" benefiting from the work. |                           |  |                        |                           |  |                        |                      |
| 3) Negative values for Capital Spending are a result of over-accruing costs in the previous year.   |                           |  |                        |                           |  |                        |                      |
| 4) Oregon Chub has been delisted.   |                           |  |                        |                           |  |                        |                      |

| Direct Program Expenditures on ESA-Listed Fish, 2016 <sup>4</sup>   |                           |  |                        |                           |  |                        |                      |
|---|---------------------------|--|------------------------|---------------------------|--|------------------------|----------------------|
| ESA Listed Focal Species Name   | Expense "Direct" Spending | Expense "Contract Administration" Spending | Expense Total Spending | Capital "Direct" Spending | Capital "Contract Administration" Spending | Capital Total Spending | Total Spending       |
| Chinook - Lower Columbia River ESU (threatened)   | \$5,796,667               | \$1,513,945                                | \$7,310,633            | \$257,162                 | \$7,890                                    | (\$249,272)            | \$7,061,361          |
| Chinook - Snake River Fall ESU (threatened)   | \$8,771,249               | \$2,857,175                                | \$11,608,425           | \$0                       | \$0  | \$0                    | \$11,608,425         |
| Chinook - Snake River Spring/Summer ESU (threatened)  | \$20,247,196              | \$5,803,890                                | \$26,051,085           | (\$23,958)                | (\$1,224)                                  | (\$25,882)             | \$24,025,204         |
| Chinook - Upper Columbia River Spring ESU (endangered)  | \$10,671,053              | \$4,094,190                                | \$14,765,243           | \$19,935                  | \$319,862                                  | \$839,797              | \$14,105,040         |
| Chinook - Upper Willamette River ESU (threatened)   | \$4,274,961               | \$1,645,156                                | \$5,920,117            | \$0                       | \$0  | \$0                    | \$5,920,117          |
| Chum - Columbia River ESU (threatened)  | \$4,512,163               | \$524,429                                  | \$4,836,592            | \$0                       | \$0  | \$0                    | \$4,836,592          |
| Coho - Lower Columbia River ESU (threatened)  | \$4,559,849               | \$846,480                                  | \$5,406,328            | \$40,846                  | \$9,666                                    | \$50,512               | \$5,456,840          |
| Snakeye - Snake River FSI (endangered)  | \$4,656,719               | \$1,304,544                                | \$6,163,076            | \$0                       | \$0  | \$0                    | \$6,163,076          |
| Steelhead - Lower Columbia River DPS (threatened)   | \$5,687,536               | \$1,299,555                                | \$6,987,091            | \$4,213                   | \$9,666                                    | \$13,879               | \$7,000,970          |
| Steelhead - Middle Columbia River DPS (threatened)  | \$29,280,488              | \$12,108,357                               | \$41,388,845           | \$275,273                 | \$41,902                                   | \$317,175              | \$41,706,020         |
| Steelhead - Snake River DPS (threatened)  | \$20,556,046              | \$5,373,245                                | \$25,929,291           | (\$23,958)                | (\$1,224)                                  | (\$25,882)             | \$25,903,409         |
| Steelhead - Upper Columbia River DPS (endangered)   | \$10,661,080              | \$4,000,129                                | \$14,661,210           | \$67,018                  | \$47,382                                   | \$114,400              | \$14,775,610         |
| Steelhead - Upper Willamette River DPS (threatened)   | \$3,443,271               | \$1,385,855                                | \$4,829,127            | \$0                       | \$0  | \$0                    | \$4,829,127          |
| Cutthroat Trout - Labanion (threatened)   | \$620,244                 | \$1,050,719                                | \$1,870,763            | \$0                       | \$0  | \$0                    | \$1,870,763          |
| Sturgeon, White - Kootenai River DPS (endangered)   | \$11,769,400              | \$2,521,135                                | \$14,300,538           | \$32,432                  | \$0  | \$32,432               | \$14,300,970         |
| Trout, Bull (threatened)  | \$9,283,434               | \$2,947,869                                | \$12,231,299           | \$2,091,009               | \$21,926                                   | \$2,112,935            | \$17,350,234         |
| <b>TOTAL</b>  | <b>\$156,991,178</b>      | <b>\$52,768,496</b>                        | <b>\$209,759,697</b>   | <b>\$2,227,677</b>        | <b>\$960,447</b>                           | <b>\$3,188,123</b>     | <b>\$212,947,793</b> |
| <b>Notes:</b>   |                           |  |                        |                           |  |                        |                      |
| 1) Direct spending can be tracked back to a work element where the contractor explicitly identified the "Primary Focal Species" benefiting from the work.                       |                           |  |                        |                           |  |                        |                      |
| 2) Contract Administration spending can be tracked back to a work element that did not require the contractor to identify the "Primary Focal Species" benefiting from the work. |                           |  |                        |                           |  |                        |                      |
| 3) Negative values for Capital Spending are a result of over-accruing costs in the previous year.   |                           |  |                        |                           |  |                        |                      |
| 4) FY16 revised as of February 21, 2018. Oregon Chub was removed as it was delisted February 2015.  |                           |  |                        |                           |  |                        |                      |

| Direct Program Expenditures by Fund, FY2017   |                       |                       |                       |                       |                       |                       |                       |                       |                       |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| FUND  | FY2008                | 2010                  | 2011                  | 2012                  | 2013                  | 2014                  | 2015                  | 2016 <sup>3</sup>     | 2017                  |
| Total BIOP (non-Accord)   | \$ 88,120,408         | \$ 105,257,648        | \$ 109,818,406        | \$ 102,742,463        | \$ 93,422,644         | \$ 102,350,719        | \$ 103,824,064        | \$ 98,725,347         |                       |
| Total Accords <sup>1</sup>  | \$ 31,917,876         |                       |                       |                       |                       |                       |                       |                       |                       |
| Total Accords - BIOP  | \$ 64,187,623         | \$ 79,829,739         | \$ 76,351,240         | \$ 75,238,555         | \$ 53,057,117         | \$ 78,332,689         | \$ 56,532,653         | \$ 57,016,538         |                       |
| Total Accords - Non-BIOP  | \$ 20,983,783         | \$ 37,606,835         | \$ 45,782,424         | \$ 48,583,014         | \$ 50,913,614         | \$ 36,986,094         | \$ 48,793,368         | \$ 45,974,614         |                       |
| Total General   | \$ 130,932,844        | \$ 51,745,457         | \$ 73,608,793         | \$ 58,956,587         | \$ 48,813,941         | \$ 54,828,830         | \$ 44,748,863         | \$ 47,558,238         | \$ 40,674,976         |
| Total BPA Overhead  | \$ 11,552,285         | \$ 14,530,682         | \$ 14,911,880         | \$ 15,501,115         | \$ 15,723,909         | \$ 16,911,905         | \$ 17,132,184         | \$ 17,063,851         | \$ 15,586,061         |
| <b>TOTAL PROGRAM</b>  | <b>\$ 174,413,007</b> | <b>\$ 239,587,553</b> | <b>\$ 311,214,895</b> | <b>\$ 306,409,772</b> | <b>\$ 291,101,892</b> | <b>\$ 269,134,110</b> | <b>\$ 279,650,549</b> | <b>\$ 274,172,174</b> | <b>\$ 259,957,536</b> |
| <b>Notes:</b>   |                       |                       |                       |                       |                       |                       |                       |                       |                       |
| 1) BIOP tracking at fund level began in 2009; Accords began in 2008.  |                       |                       |                       |                       |                       |                       |                       |                       |                       |
| 2) Spending is estimated based on the % of funding towards a project. For example, if a project budget is 70% BIOP and 30% General, the project expenditures will be prorated 70% towards BIOP and 30% General. |                       |                       |                       |                       |                       |                       |                       |                       |                       |
| 3) FY2016 revised as of February 21, 2018.  |                       |                       |                       |                       |                       |                       |                       |                       |                       |

## Direct Program Expenditures by Category, FY2017

| Category                                 | 2011                 | 2012                 | 2013                 | 2014                 | 2015                 | 2016 <sup>4</sup>    | 2017                 |
|--|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Coordination (Local/Regional)            | \$25,185,796         | \$28,135,259         | \$30,074,160         | \$13,294,305         | \$13,500,245         | \$13,778,450         | \$13,866,905         |
| Coordination (BPA Overhead) <sup>3</sup> |                      |                      |                      | \$14,616,142         | \$14,404,354         | \$15,213,335         | \$14,542,931         |
| Data Management                          | \$4,319,007          | \$4,130,748          | \$3,980,351          | \$4,244,807          | \$4,077,674          | \$7,152,515          | \$6,798,516          |
| Habitat (Restoration/Protection)         | \$123,373,947        | \$122,609,228        | \$118,831,309        | \$102,422,790        | \$124,435,135        | \$117,933,009        | \$98,185,617         |
| Harvest Augmentation                     | \$3,599,302          | \$4,429,624          | \$4,077,995          | \$4,062,872          | \$4,248,774          | \$4,206,148          | \$4,321,385          |
| Production (Supplementation)             | \$61,846,889         | \$53,165,835         | \$50,024,766         | \$45,146,279         | \$32,202,008         | \$31,490,426         | \$34,872,455         |
| Law Enforcement                          | \$805,250            | \$853,122            | \$750,780            | \$883,679            | \$865,990            | \$800,717            | \$1,007,595          |
| Predator Removal                         | \$2,983,190          | \$3,558,732          | \$3,309,064          | \$3,879,435          | \$3,614,166          | \$4,251,762          | \$4,211,395          |
| Research, Monitoring and Evaluation      | \$89,101,514         | \$89,527,224         | \$80,053,469         | \$80,583,801         | \$82,202,203         | \$79,345,812         | \$82,150,738         |
| <b>Total</b>                             | <b>\$311,214,895</b> | <b>\$306,409,772</b> | <b>\$291,101,892</b> | <b>\$269,134,110</b> | <b>\$279,550,549</b> | <b>\$274,172,174</b> | <b>\$259,957,536</b> |

### Notes:

1) BPA's database identifies projects by their "Purpose" (general goal) and "Emphasis" (primary type of work, e.g., habitat restoration.) BPA does not track its project management overhead against individual projects or contracts, so there is no easy or accurate way to allocate BPA overhead to specific purposes or emphases. Thus, in the above report, BPA includes its staffing to manage the 600-plus contracts in its fish and wildlife program in the category identified as Coordination (BPA Overhead), and its direct technical services contracts for Data Management and RM&E in those respective categories.

2) Estimated spending is based at the project level. Therefore if a project is assigned an emphasis of Habitat, but also does RME, all expenditures for the project are included under Habitat.

3) Starting in Fiscal Year 2015 (and revised for FY2014), Costs by Category will now separate Coordination costs between Regional/Local Coordination and BPA Overhead.

4) FY2016 - Revised as of February 21, 2018.

| Direct Program Expenditures for Artificial Production, FY2017   |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
|---|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Category  | 2007                | 2008                | 2009                | 2010                | 2011                | 2012                | 2013                | 2014                | 2015                | 2016 <sup>2</sup>   | 2017                |
| Coordination (local/regional)   | \$641,017           | \$764,140           | -\$3,902            | \$640,554           | \$684,091           | \$664,080           | \$705,309           | \$633,509           | \$610,053           | \$703,006           | \$690,901           |
| Harvest Augmentation  | \$3,054,888         | \$3,256,692         | \$3,417,255         | \$3,241,566         | \$3,599,302         | \$4,429,624         | \$4,077,995         | \$4,062,872         | \$4,248,774         | \$4,206,148         | \$4,321,385         |
| RM and E  | \$19,614,680        | \$17,739,370        | \$17,335,478        | \$22,318,040        | \$22,583,163        | \$25,176,585        | \$23,588,530        | \$24,046,106        | \$24,079,654        | \$24,391,057        | \$24,937,524        |
| Supplementation   | \$22,334,339        | \$26,177,769        | \$28,175,648        | \$45,271,831        | \$61,846,889        | \$53,165,835        | \$50,024,766        | \$45,146,279        | \$32,202,008        | \$31,490,426        | \$34,872,455        |
| <b>Total</b>  | <b>\$45,645,724</b> | <b>\$47,937,980</b> | <b>\$48,924,480</b> | <b>\$71,471,991</b> | <b>\$88,714,245</b> | <b>\$83,436,132</b> | <b>\$78,476,600</b> | <b>\$73,888,765</b> | <b>\$61,149,290</b> | <b>\$60,791,517</b> | <b>\$64,822,265</b> |
| <b>Notes:</b>   |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| 1) Estimated spending is based at the project level. Therefore if a project is assigned an emphasis of Habitat, but also does RME, all expenditures for the project are included under Habitat. |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| 2) FY2016 reviewed on February 22, 2018; no changes.  |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |

| Direct Program Expenditures for Research, Monitoring and Evaluation (RM&E), FY2017  |                     |                     |                     |                     |                     |                     |                     |
|---|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Category  | 2011                | 2012                | 2013                | 2014                | 2015                | 2014 <sup>2</sup>   | 2017                |
| Artificial Production   | \$22,583,163        | \$25,176,585        | \$23,588,530        | \$24,046,106        | \$24,079,654        | \$24,391,057        | \$24,937,524        |
| Habitat   | \$15,426,001        | \$13,469,530        | \$12,969,685        | \$13,133,028        | \$13,434,942        | \$13,332,983        | \$13,236,006        |
| Harvest   | \$1,763,067         | \$1,735,888         | \$1,053,094         | \$1,228,057         | \$1,098,003         | \$1,216,118         | \$1,407,033         |
| Hydrosystem   | \$6,489,904         | \$7,982,519         | \$7,218,238         | \$6,753,430         | \$8,107,150         | \$7,908,829         | \$8,864,829         |
| Predation   | \$2,826,954         | \$2,212,363         | \$2,062,170         | \$1,991,053         | \$1,553,865         | \$1,264,152         | \$1,246,514         |
| Programmatic  | \$38,012,425        | \$38,950,340        | \$33,161,752        | \$33,432,127        | \$33,928,588        | \$31,232,673        | \$32,458,833        |
|   | <b>\$89,101,514</b> | <b>\$89,527,225</b> | <b>\$80,053,468</b> | <b>\$80,563,801</b> | <b>\$82,202,203</b> | <b>\$79,345,812</b> | <b>\$82,150,738</b> |
| <b>Notes:</b>   |                     |                     |                     |                     |                     |                     |                     |
| 1) Estimated spending is based at the project level. Therefore if a project is labeled Artificial Production, but also supports Habitat, the expenditures are counted as Artificial Production. |                     |                     |                     |                     |                     |                     |                     |
| 2) FY2016 revised as of February 21, 2018.  |                     |                     |                     |                     |                     |                     |                     |

| Direct Program Expenditures by Province, FY2017   |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
|---|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Province  | 2007                 | 2008                 | 2009                 | 2010                 | 2011                 | 2012                 | 2013                 | 2014                 | 2015                 | 2016 <sup>4</sup>    | 2017                 |
| BLUE MOUNTAIN   | \$9,489,802          | \$9,336,015          | \$10,063,271         | \$12,243,309         | \$13,045,831         | \$13,498,753         | \$13,359,734         | \$14,630,130         | \$16,928,838         | \$17,898,141         | \$15,402,316         |
| COLUMBIA CASCADE  | \$7,340,355          | \$9,192,920          | \$18,334,391         | \$26,543,346         | \$52,343,560         | \$51,216,105         | \$36,245,776         | \$26,801,554         | \$28,292,737         | \$27,088,878         | \$22,908,554         |
| COLUMBIA GORGE  | \$4,993,260          | \$8,354,049          | \$13,046,970         | \$16,165,914         | \$19,962,308         | \$13,560,427         | \$14,326,142         | \$10,014,903         | \$11,744,583         | \$9,724,087          | \$10,795,114         |
| COLUMBIA PLATEAU  | \$28,768,912         | \$37,188,905         | \$42,706,871         | \$50,405,309         | \$59,165,613         | \$61,637,074         | \$61,223,676         | \$57,654,085         | \$67,777,655         | \$62,214,559         | \$63,748,266         |
| COLUMBIA ESTUARY  | \$5,229,672          | \$6,075,054          | \$8,056,193          | \$6,848,834          | \$9,469,437          | \$11,109,892         | \$15,336,657         | \$10,819,987         | \$11,165,031         | \$11,471,831         | \$9,894,899          |
| INTERMOUNTAIN   | \$25,281,129         | \$14,497,055         | \$12,350,282         | \$15,702,284         | \$17,198,718         | \$19,784,368         | \$16,144,888         | \$17,769,309         | \$17,220,238         | \$17,995,494         | \$20,171,935         |
| LOWER COLUMBIA  | \$13,533,874         | \$14,744,699         | \$11,181,219         | \$15,259,843         | \$41,609,286         | \$33,899,854         | \$44,562,896         | \$13,867,496         | \$39,453,337         | \$40,819,289         | \$32,583,834         |
| MIDDLE SNAKE  | \$1,782,913          | \$6,659,639          | \$3,299,192          | \$5,224,071          | \$4,433,754          | \$13,235,463         | \$3,315,759          | \$3,817,058          | \$4,600,725          | \$4,520,947          | \$4,478,444          |
| MCOUNTAIN COLUMB A  | \$9,497,889          | \$11,347,198         | \$21,341,820         | \$11,427,897         | \$24,894,377         | \$22,160,067         | \$20,849,803         | \$29,293,225         | \$19,225,549         | \$21,252,149         | \$15,347,656         |
| MCOUNTAIN SNAKE   | \$16,791,815         | \$19,398,012         | \$21,934,884         | \$22,917,641         | \$28,149,960         | \$30,311,321         | \$28,453,559         | \$28,224,756         | \$40,285,555         | \$29,114,533         | \$34,758,663         |
| UPPER SNAKE   | \$701,439            | \$1,184,634          | \$1,466,476          | \$7,248,075          | \$4,904,675          | \$13,213,441         | \$10,805,582         | \$19,886,298         | \$3,761,184          | \$4,997,891          | \$5,172,457          |
| OTHER <sup>2</sup>  |                      | \$6,167,509          | \$7,274,724          | \$6,826,368          | \$7,722,192          | \$6,872,463          | \$4,578,007          | \$4,892,097          | \$5,062,472          | \$6,828,524          | \$4,995,507          |
| PROGRAM SUPPORT/ADMIN/ OVERHEAD <sup>3</sup>  | \$11,230,066         | \$30,267,918         | \$34,215,512         | \$42,775,062         | \$28,315,184         | \$15,910,542         | \$21,899,413         | \$31,463,212         | \$14,032,643         | \$20,245,851         | \$19,699,871         |
| <b>Total</b>  | <b>\$134,641,146</b> | <b>\$174,413,007</b> | <b>\$205,271,805</b> | <b>\$239,587,953</b> | <b>\$311,214,895</b> | <b>\$306,409,772</b> | <b>\$291,101,892</b> | <b>\$269,134,110</b> | <b>\$279,550,549</b> | <b>\$274,172,174</b> | <b>\$259,957,536</b> |
| <b>Notes:</b>   |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| 1) Starting in 2008, spending by province is tracked in Pisces based on where the contractor explicitly identified work location.   |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| 2) Other includes "Undetermined" locations such as Ocean, Canada; and provinces not recognized by NPCC.   |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| 3) Program Support/Admin includes spending that cannot be traced back to a contract that has at least one work element requiring location; contracts without any work elements at all; program level spending not mapped to a specific project; and BPA Overhead. |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| 4) FY16 revised as of February 22, 2018.  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |

**Direct Program Expenditures by State, FY2017**

*Compiles program spending by Work Element location*

| STATE   | 2011                 | 2012                 | 2013                 | 2014                 | 2015                 | 2016 <sup>3</sup>    | 2017                 |
|---|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Washington  | \$121,317,884        | \$115,404,913        | \$95,365,193         | \$86,071,758         | \$90,272,232         | \$89,322,441         | \$87,773,680         |
| Idaho   | \$50,870,890         | \$73,383,217         | \$61,857,476         | \$78,704,753         | \$68,248,817         | \$60,368,059         | \$60,017,984         |
| Oregon  | \$86,884,304         | \$85,320,690         | \$101,607,686        | \$61,266,093         | \$97,958,650         | \$93,424,732         | \$83,785,203         |
| Ocean   | \$3,598,371          | \$2,367,853          | \$589,410            | \$989,723            | \$938,156            | \$1,085,664          | \$1,031,552          |
| Montana   | \$17,984,028         | \$11,143,660         | \$7,215,356          | \$8,285,323          | \$5,345,069          | \$7,233,270          | \$4,883,261          |
| British Columbia                                  | \$1,610,361          | \$1,983,288          | \$2,042,752          | \$1,859,249          | \$1,991,758          | \$1,849,774          | \$2,000,203          |
| Nevada  | \$622,594            | \$883,615            | \$524,606            | \$494,000            | \$763,225            | \$642,383            | \$757,668            |
| Program Support/Admin/Overhead/Other <sup>2</sup> | \$28,326,464         | \$15,922,536         | \$21,899,413         | \$31,463,211         | \$14,032,643         | \$20,245,851         | \$19,707,985         |
|   | <u>\$311,214,895</u> | <u>\$306,409,772</u> | <u>\$291,101,892</u> | <u>\$269,134,110</u> | <u>\$279,550,549</u> | <u>\$274,172,174</u> | <u>\$259,957,536</u> |

**Notes:**

- 1) Starting in 2008, spending by state is tracked in Pisces based on where the contractor explicitly identified work location.
- 2) Program Support/Admin/Other includes spending that cannot be traced back to a contract that has at least one work element requiring location; contracts without any work elements; program level spending not mapped to a specific project or NPCC province; and BPA Overhead.
- 3) FY2016 revised as of February 22, 2018.

| Direct Program Expenditures by Contractor Type, FY2017 |  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
|--|--|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Contractor Type  |  | 2007                 | 2008                 | 2009                 | 2010                 | 2011                 | 2012                 | 2013                 | 2014                 | 2015                 | 2016 <sup>3</sup>    | 2017                 |
| FEDERAL  | NATIONAL MARINE FISHERIES (NOAA)   | \$9,179,793          | \$7,980,293          | \$8,959,831          | \$8,214,596          | \$10,011,124         | \$10,226,672         | \$7,294,105          | \$4,823,153          | \$7,849,433          | \$6,916,950          | \$7,239,871          |
|  | BPA OVERHEAD [& NON-CONTRACTED PROJECT COSTS]  | \$11,152,430         | \$7,742,161          | \$15,428,883         | \$16,866,192         | \$16,437,276         | \$15,281,324         | \$16,789,765         | \$18,302,894         | \$16,642,085         | \$20,288,062         | \$18,617,914         |
|  | US FISH & WILDLIFE SERVICE (USFWS)   | \$2,880,400          | \$3,150,827          | \$3,079,231          | \$2,640,768          | \$2,842,702          | \$2,472,046          | \$2,845,424          | \$3,425,748          | \$2,718,120          | \$3,027,580          | \$2,289,092          |
|  | US BUREAU OF RECLAMATION (BOR)   | \$279,721            | \$152,309            | \$202,092            | \$180,104            | \$160,153            | \$237,484            | \$181,862            | \$312,773            | \$714,663            | \$263,562            | \$272,941            |
|  | US ARMY CORP OF ENGINEERS (COE)  | \$1,519,667          | \$20,924             | \$235,612            | \$205,064            | \$338,323            | \$308,214            | \$404,602            | \$171,315            | \$309,499            | \$1,278,361          | \$272,192            |
|  | PACIFIC NW NATIONAL LABORATORY/DEPT. OF ENERGY   | \$1,165,186          | \$1,605,398          | \$1,769,676          | \$1,476,028          | \$750,143            | \$573,645            | \$381,427            | \$379,050            | \$625,656            | \$793,662            | \$392,411            |
|  | US FOREST SERVICE (USFS)   | \$728,324            | \$1,110,740          | \$3,668,543          | \$1,649,120          | \$1,124,508          | \$651,567            | \$819,258            | \$813,992            | \$309,565            | \$942,585            | \$814,089            |
|  | CIHRK  | \$403,411            | \$434,711            | \$434,000            | \$444,850            | \$904,925            |                      | \$178,002            | \$30,000             |                      | \$50,000             |                      |
|  | US GEOLOGICAL SURVEY (USGS)  | \$1,256,474          | \$1,722,389          | \$1,835,708          | \$1,760,653          | \$2,385,971          | \$3,135,564          | \$2,209,567          | \$1,704,163          | \$1,705,066          | \$1,809,300          | \$2,014,356          |
| <b>FEDERAL TOTAL</b>                                   |  | <b>\$28,646,404</b>  | <b>\$24,269,762</b>  | <b>\$36,613,676</b>  | <b>\$36,467,376</b>  | <b>\$34,976,327</b>  | <b>\$33,136,616</b>  | <b>\$31,304,010</b>  | <b>\$31,983,084</b>  | <b>\$32,944,086</b>  | <b>\$35,340,042</b>  | <b>\$32,112,844</b>  |
| STATE  | OREGON DEPARTMENT OF FISH & WILDLIFE   | \$11,114,130         | \$10,237,010         | \$10,170,389         | \$13,269,950         | \$10,238,326         | \$15,605,509         | \$13,248,075         | \$14,244,566         | \$14,416,087         | \$15,246,156         | \$14,664,699         |
|  | OREGON WATERSHED ENHANCEMENT BOARD   |                      |                      |                      |                      |                      | \$59,516             | \$76,367             | \$112,611            | \$68,523             | \$55,535             | \$18,413             |
|  | <b>OREGON Subtotal</b>   | <b>\$11,114,130</b>  | <b>\$10,237,010</b>  | <b>\$10,170,389</b>  | <b>\$13,269,950</b>  | <b>\$10,238,326</b>  | <b>\$15,665,025</b>  | <b>\$13,324,441</b>  | <b>\$14,357,177</b>  | <b>\$14,504,610</b>  | <b>\$15,301,691</b>  | <b>\$14,683,112</b>  |
|  | IDAHO DEPARTMENT OF FISH & WILDLIFE  | \$7,139,047          | \$1,077,547          | \$8,429,207          | \$5,174,578          | \$10,847,630         | \$17,836,561         | \$18,281,036         | \$13,726,899         | \$15,455,054         | \$11,875,775         | \$17,451,687         |
|  | IDAHO SOIL & WATER CONSERVATION COMMISSION   | \$91,398             | \$84,922             | \$91,275             | \$66,967             |                      |                      |                      |                      |                      |                      |                      |
|  | IDAHO STATE OFFICE OF SPECIES CONSERVATION   | \$199,247            | \$199,247            | \$923,272            | \$1,367,773          | \$2,551,533          | \$2,487,433          | \$2,905,500          | \$1,368,456          | \$2,742,180          | \$3,352,210          | \$4,013,413          |
|  | <b>IDAHO Subtotal</b>  | <b>\$7,230,445</b>   | <b>\$1,156,746</b>   | <b>\$9,443,754</b>   | <b>\$10,639,318</b>  | <b>\$13,399,163</b>  | <b>\$20,323,994</b>  | <b>\$21,186,535</b>  | <b>\$15,095,266</b>  | <b>\$18,197,234</b>  | <b>\$15,227,985</b>  | <b>\$16,465,100</b>  |
|  | WASHINGTON DEPARTMENT OF FISH & WILDLIFE   | \$6,415,256          | \$5,912,604          | \$6,134,350          | \$7,112,743          | \$9,148,722          | \$11,855,753         | \$10,691,474         | \$12,164,790         | \$11,894,739         | \$12,793,663         | \$10,976,873         |
|  | WASHINGTON DEPARTMENT OF ECOLOGY   | \$90,223             | \$211,309            | \$150,324            | \$181,562            | \$43,689             |                      |                      |                      |                      |                      |                      |
|  | <b>WASHINGTON Subtotal</b>   | <b>\$6,705,479</b>   | <b>\$6,123,913</b>   | <b>\$6,284,673</b>   | <b>\$7,694,305</b>   | <b>\$9,192,411</b>   | <b>\$11,855,753</b>  | <b>\$10,691,474</b>  | <b>\$12,164,790</b>  | <b>\$11,894,739</b>  | <b>\$12,793,663</b>  | <b>\$10,976,873</b>  |
|  | MONTANA FISH, WILDLIFE AND PARKS (MFWP)  | \$2,234,653          | \$2,742,721          | \$2,829,533          | \$2,913,118          | \$2,414,914          | \$2,382,531          | \$2,777,167          | \$3,063,650          | \$3,051,537          | \$3,810,995          | \$3,076,776          |
|  | <b>MONTANA Subtotal</b>  | <b>\$2,234,653</b>   | <b>\$2,742,721</b>   | <b>\$2,829,533</b>   | <b>\$2,913,118</b>   | <b>\$2,414,914</b>   | <b>\$2,382,531</b>   | <b>\$2,777,167</b>   | <b>\$3,063,650</b>   | <b>\$3,051,537</b>   | <b>\$3,810,995</b>   | <b>\$3,076,776</b>   |
| <b>STATE TOTAL</b>                                     |  | <b>\$27,284,708</b>  | <b>\$30,480,390</b>  | <b>\$28,728,349</b>  | <b>\$34,716,691</b>  | <b>\$35,244,814</b>  | <b>\$50,427,303</b>  | <b>\$47,979,618</b>  | <b>\$44,680,903</b>  | <b>\$47,648,120</b>  | <b>\$47,134,334</b>  | <b>\$46,201,861</b>  |
| TRIBE  | BURNS PAIUTE TRIBE   | \$733,424            | \$687,603            | \$636,144            | \$716,460            | \$658,775            | \$831,697            | \$610,972            | \$761,026            | \$1,081,655          | \$797,849            | \$811,010            |
|  | COEUR D'ALENE TRIBE OF IDAHO   | \$2,148,587          | \$2,537,247          | \$2,552,550          | \$2,444,908          | \$2,340,704          | \$2,668,551          | \$2,714,055          | \$2,666,196          | \$2,722,811          | \$2,717,875          | \$2,717,875          |
|  | COLUMBIA RIVER INTERTRIBAL FISH COMMISSION   | \$1,005,653          | \$1,776,526          | \$4,329,842          | \$4,034,143          | \$7,660,904          | \$8,747,388          | \$7,939,587          | \$8,503,076          | \$5,041,926          | \$9,140,737          | \$9,740,397          |
|  | COLVILLE CONFEDERATED TRIBES   | \$6,670,667          | \$4,519,814          | \$10,594,008         | \$10,278,445         | \$16,189,398         | \$21,993,516         | \$16,872,698         | \$15,116,519         | \$14,293,924         | \$15,137,000         | \$20,566,435         |
|  | CONFEDERATED TRIBES OF GRAND RONDE   |                      |                      |                      | \$53,475             | \$124,703            | \$158,296            | \$110,571            | \$140,398            | \$134,869            | \$163,102            | \$234,021            |
|  | CONFEDERATED TRIBES OF SILT/INDIANS  |                      |                      |                      |                      |                      | \$68,134             | \$52,700             | \$140,869            | \$124,210            | \$102,394            |                      |
|  | CONFEDERATED TRIBES OF WARM SPRINGS  | \$5,441,199          | \$3,373,196          | \$6,142,650          | \$6,078,270          | \$6,859,314          | \$7,223,659          | \$11,203,330         | \$5,691,055          | \$12,065,436         | \$6,615,140          | \$8,271,585          |
|  | COWILTZ INDIAN TRIBE   |                      |                      |                      |                      | \$34,325             | \$118,229            | \$364,937            | \$453,801            | \$633,055            | \$661,308            | \$614,065            |
|  | FORT McDERMOTT TRIBE   |                      |                      |                      |                      |                      |                      |                      | \$4,650              |                      |                      | -\$4,650             |
|  | KALISPEL TRIBE OF INDIANS  | \$1,752,834          | \$1,633,522          | \$1,790,852          | \$1,928,048          | \$2,066,331          | \$2,575,344          | \$2,709,448          | \$2,962,457          | \$3,133,722          | \$3,359,054          | \$4,505,004          |
|  | KOOTENAI TRIBE   | \$5,491,017          | \$7,400,457          | \$6,541,035          | \$6,938,439          | \$8,537,716          | \$12,321,474         | \$15,094,788         | \$21,941,731         | \$11,586,884         | \$15,188,307         | \$11,041,580         |
|  | NEZ PERCE TRIBE  | \$11,559,023         | \$11,552,934         | \$12,037,027         | \$12,644,313         | \$15,349,520         | \$16,673,605         | \$15,800,876         | \$15,294,865         | \$16,713,048         | \$16,526,287         | \$18,138,282         |
|  | SALISH AND KOOTENAI TRIBES CONFEDERATED TRIBES   | \$39,627             | \$1,176,490          | \$483,878            | \$560,467            | \$430,107            | \$453,175            | \$755,839            | \$664,292            | \$684,144            | \$632,232            | \$613,878            |
|  | SHOSHONE-BANNOCK TRIBES  | \$1,114,874          | \$1,749,602          | \$1,579,829          | \$2,438,482          | \$2,830,660          | \$2,637,601          | \$4,009,231          | \$3,551,518          | \$5,477,187          | \$3,422,313          | \$3,912,664          |
|  | SHOSHONE-PAIUTE TRIBES   | \$742,121            | \$684,324            | \$790,837            | \$749,767            | \$841,382            | \$1,147,875          | \$694,692            | \$626,509            | \$1,086,910          | \$936,944            | \$1,023,666          |
|  | SPOKANE TRIBE OF INDIANS   | \$2,420,623          | \$2,726,944          | \$2,744,981          | \$2,741,856          | \$2,803,647          | \$2,932,796          | \$2,709,870          | \$3,314,939          | \$2,989,703          | \$3,403,933          | \$3,673,493          |
|  | UMATILLA CONFEDERATED TRIBES   | \$5,421,899          | \$6,156,492          | \$6,593,550          | \$6,881,442          | \$11,365,123         | \$9,951,477          | \$12,122,357         | \$12,088,062         | \$11,248,947         | \$10,584,971         | \$11,987,368         |
|  | UPPER COLUMBIA UNITED TRIBES (UCUT)  |                      | \$162,707            | \$251,327            | \$516,803            | \$427,731            | \$403,540            | \$389,914            | \$448,433            | \$542,525            | \$466,896            | \$537,648            |
|  | UPPER SNAKE RIVER TRIBES FOUNDATION  |                      | \$20,776             | \$145,822            | \$121,067            | \$148,610            | \$162,735            | \$206,529            | \$340,150            | \$393,095            | \$381,505            | \$316,905            |
|  | YAKAMA CONFEDERATED TRIBES   | \$10,574,057         | \$10,792,537         | \$17,438,231         | \$24,319,364         | \$32,944,242         | \$25,613,516         | \$25,447,029         | \$23,930,424         | \$27,481,991         | \$27,344,154         | \$23,095,849         |
| <b>TRIBE TOTAL</b>                                     |  | <b>\$66,816,607</b>  | <b>\$66,964,171</b>  | <b>\$74,662,643</b>  | <b>\$87,585,549</b>  | <b>\$111,613,192</b> | <b>\$116,414,475</b> | <b>\$119,824,866</b> | <b>\$118,639,461</b> | <b>\$119,416,105</b> | <b>\$117,613,403</b> | <b>\$121,899,505</b> |
| INTERSTATE COMPACT                                     | PACIFIC STATES MARINE FISHERIES COMMISSION (PSMFC)   | \$13,690,125         | \$13,283,337         | \$14,452,104         | \$13,812,621         | \$13,908,430         | \$14,053,990         | \$12,711,728         | \$13,671,165         | \$13,923,766         | \$13,908,920         | \$14,114,666         |
| UNIVERSITY   | UNIVERSITIES   | \$4,252,999          | \$3,461,552          | \$4,365,304          | \$3,939,562          | \$3,662,199          | \$3,384,748          | \$2,800,350          | \$3,123,240          | \$3,143,476          | \$3,036,343          | \$3,102,344          |
| OTHER  | PRIVATE/NON-PROFIT/OTHER   | \$9,329,690          | \$15,999,893         | \$16,476,097         | \$24,542,878         | \$51,870,632         | \$37,603,355         | \$36,314,947         | \$21,464,271         | \$24,048,856         | \$25,183,985         | \$24,010,159         |
|  | LOCAL/SEMI GOVERNMENT  | \$4,257,817          | \$5,626,167          | \$8,355,797          | \$7,141,882          | \$5,933,917          | \$8,235,814          | \$7,854,727          | \$8,969,539          | \$10,995,773         | \$7,743,399          | \$4,497,166          |
|  | COLUMBIA BASIN FISH & WILDLIFE AUTHORITY   | \$3,220,918          | \$2,875,372          | \$2,102,582          | \$2,142,548          | \$1,748,321          | \$1,611,166          | \$1,231,260          | \$544,684            | \$53,710             |                      |                      |
|  | LAND ACQUISITIONS <sup>2</sup>   | \$1,606,994          | \$1,693,766          | \$2,741,905          | \$2,503,712          | \$38,048,400         | \$23,741,722         | \$20,104,220         | \$22,112,085         | \$18,204,478         | \$8,998,595          |                      |
|  | UTILITY  | \$1,207,766          | \$897,497            | \$36,104             | \$44,731             | \$935,038            | \$1,802,447          | \$1,810,123          | \$1,862,082          | \$2,058,245          | \$1,989,826          | \$2,218,310          |
|  | NATIONAL FISH & WILDLIFE FOUNDATION  | \$3,613,020          | \$3,964,062          | \$3,561,562          | \$5,471,611          | \$4,778,134          | \$4,633,194          | \$5,320,550          | \$4,191,459          | \$5,140,096          | \$4,792,200          | \$4,530,270          |
|  | CHIEF JOSEPH HATCHERY COST SHARE (GRANT PUD)   |                      |                      |                      |                      | -\$6,638,821         | -\$3,141,637         |                      | -\$1,875,149         | -\$774,836           | -\$636,214           |                      |
| <b>OTHER TOTAL</b>                                     |  | <b>\$21,629,211</b>  | <b>\$45,971,805</b>  | <b>\$47,467,909</b>  | <b>\$64,125,555</b>  | <b>\$111,810,933</b> | <b>\$88,992,739</b>  | <b>\$76,481,330</b>  | <b>\$57,136,255</b>  | <b>\$62,454,997</b>  | <b>\$57,139,112</b>  | <b>\$43,526,295</b>  |
| <b>GRAND TOTAL</b>                                     |  | <b>\$151,238,055</b> | <b>\$174,413,007</b> | <b>\$205,271,805</b> | <b>\$239,587,953</b> | <b>\$311,214,895</b> | <b>\$306,409,772</b> | <b>\$291,101,892</b> | <b>\$269,134,110</b> | <b>\$279,550,549</b> | <b>\$274,172,174</b> | <b>\$259,957,536</b> |
| NOTES:   |  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
|  | 1) Values above include accruals.  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
|  | 2) Starting in FY13, land acquisition values may include stewardship costs for long-term operations and maintenance (O&M). |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
|  | 3) FY2015 reviewed as of March 10, 2017, no changes.   |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |

| Direct Program Expenditures for Land Purchases, FY2017   |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                    |
|--|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--------------------|
| Project Proponent(s)   | 2007                | 2008                | 2009                | 2010                | 2011                | 2012                | 2013                | 2014                | 2015                | 2016 <sup>3</sup>   | 2017               |
| Blue Mountain Land Trust   |                     |                     |                     |                     |                     |                     |                     |                     | \$562,363           |                     |                    |
| City of Eugene   |                     |                     |                     |                     |                     | \$1,075,000         |                     |                     |                     |                     |                    |
| City of Salem  |                     |                     |                     |                     |                     |                     | \$1,212,330         |                     |                     |                     |                    |
| Coeur D'Alene Tribe, Idaho Department of Fish and Game, Katsipel Tribe, Kootenai Tribe                                     | \$7,302,119         | \$4,072,206         | \$3,326,183         | \$2,286,471         | \$1,750,665         | \$1,675,162         | \$348,570           |                     |                     | \$85,217            | \$72,676           |
| Columbia Land Trust  |                     |                     |                     |                     |                     | \$5,306,043         | \$1,711,235         | \$693,096           | \$2,051,603         | \$40,308            | \$99,543           |
| Colville Confederated Tribes   | \$1,487,578         | \$220,318           | \$1,144,839         | \$3,441,315         | \$720,811           | \$1,743,906         | \$1,611,630         | \$283,048           |                     |                     |                    |
| Confederated Tribes of the Grande Ronde  |                     |                     |                     |                     |                     | \$54,305            | \$3,596,391         | \$12,500            | \$1,741,197         |                     |                    |
| Confederated Tribes of the Warm Springs  |                     |                     |                     |                     |                     |                     |                     |                     | \$3,632,833         |                     |                    |
| Ducks Unlimited  |                     |                     |                     |                     |                     |                     | \$520,081           |                     |                     |                     |                    |
| Friends of Buford Park   |                     |                     |                     |                     |                     |                     |                     |                     | \$423,162           |                     |                    |
| Greenbelt Land Trust   |                     |                     |                     |                     |                     | \$772,500           | \$1,500,000         | \$244,082           | \$947,500           |                     |                    |
| Idaho Department of Fish and Game (IDFG)   |                     | \$2,279,851         |                     | \$4,750,821         |                     | \$5,039,268         |                     | \$14,000,000        |                     | \$1,877,581         |                    |
| Idaho Office of Species Conservation   |                     |                     |                     | \$3,426,523         |                     |                     |                     |                     | \$7,980,000         | \$680,000           | \$2,438,220        |
| Killitas Conservation Trust  |                     | \$130,000           |                     |                     |                     |                     |                     |                     |                     |                     |                    |
| Lower Columbia River Estuary Partnership (LCREP)   |                     | \$67,130            | \$608,223           |                     |                     | \$946,739           |                     |                     |                     |                     | \$500              |
| McKenzie River Trust   |                     |                     |                     |                     |                     | \$52,986            |                     | \$318,372           |                     |                     |                    |
| Methow Salmon Recovery Foundation  |                     |                     | \$182,000           |                     |                     |                     |                     |                     |                     |                     |                    |
| Montana Fish, Wildlife and Parks (MFWP)  |                     |                     |                     |                     | \$9,750,112         | \$1,349,403         | \$642,763           | \$1,610,425         | \$154,274           |                     |                    |
| National Fish and Wildlife Foundation  |                     | \$415,000           | \$389,000           |                     |                     |                     |                     |                     |                     |                     |                    |
| Nature Conservancy   | \$4,900,500         | \$1,001,875         | \$0                 | \$2,245,363         | \$20,851,010        |                     | \$3,412,000         |                     | \$2,268,978         |                     |                    |
| Nez Perce Tribe  | \$13,186            | \$7,297             | \$7,751             | \$540,992           | \$5,788             | \$820               | \$5,000             | \$5,000             | \$5,729             | \$5,899             | \$5,980            |
| Oregon Department Of Fish and Wildlife (ODFW)  | \$5,000,000         | \$3,904,011         | \$1,075,108         | \$1,330,361         | \$9,716,071         |                     | \$4,595,329         |                     | \$1,082,452         | \$10,868,814        | \$5,038,680        |
| Oregon Watershed Enhancement Board   |                     |                     |                     | \$779,252           |                     |                     | \$600,000           |                     |                     |                     |                    |
| Central Washington Resource Conservation and Development   |                     |                     | \$14,500            | \$33,800            |                     |                     |                     |                     |                     |                     |                    |
| Salish and Kootenai Confederated Tribes  |                     | \$4,217,842         | \$9,385,802         | \$1,394,127         | \$4,068,146         | \$6,370,226         | \$1,596,594         | \$2,196,197         | \$490,965           | \$1,815,934         | \$476,466          |
| Shoshone-Bannock Tribes  |                     |                     | \$546,610           |                     | \$1,996,948         | \$3,666,163         |                     |                     |                     | \$786,320           |                    |
| Shoshone-Paiute Tribes   |                     |                     |                     | \$2,259,937         |                     | \$3,156,008         |                     |                     |                     |                     |                    |
| Spokane Tribe  | \$5,685,884         |                     |                     |                     |                     |                     |                     |                     |                     |                     |                    |
| Umatilla Confederated Tribes (CTUIR)   |                     |                     |                     | \$2,114,907         |                     | \$15,382            |                     |                     | \$771,010           | \$1,783,866         |                    |
| US Fish and Wildlife Service (USFWS)   |                     |                     |                     | \$1,005,967         |                     |                     |                     |                     |                     |                     |                    |
| Washington Department of Fish and Wildlife (WDFW)  |                     | \$801,221           | \$752               | \$51                |                     | \$2,365,285         | \$572,469           |                     |                     |                     |                    |
| Willamalane Parks and Recreation District  |                     |                     |                     |                     |                     |                     | \$500,509           | \$741,501           |                     |                     |                    |
| Yakama Confederated Tribes   | \$2,216             | \$372,234           | \$262,257           | \$1,132,019         | \$3,344,161         | \$4,437,146         | \$333,123           |                     |                     | \$260,540           | \$866,530          |
| Yamhill Soil and Water Conservation District   |                     |                     |                     |                     |                     |                     | \$983,599           |                     |                     |                     |                    |
| <b>Grand Total</b>   | <b>\$24,391,484</b> | <b>\$17,488,983</b> | <b>\$16,743,025</b> | <b>\$26,741,905</b> | <b>\$52,203,712</b> | <b>\$38,046,341</b> | <b>\$23,741,722</b> | <b>\$20,104,220</b> | <b>\$22,112,085</b> | <b>\$18,204,478</b> | <b>\$8,998,595</b> |
| <b>Notes:</b>  |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                    |
| 1) Values above include bank fees, permits, etc.   |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                    |
| 2) Starting in FY13, land acquisition values may include stewardship costs for long-term operations and maintenance (O&M). |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                    |
| 3) FY2016 - No changes as of February 22, 2018.  |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                    |

**From:** Grant, Sharon D (BPA) - EWU-4  
**Sent:** Wed Apr 18 09:20:26 2018  
**To:** Harrison, John (jharrison@nwcouncil.org)  
**Subject:** FW: Questions  
**Importance:** Normal

Hi John,

I just got a message from one of the Power folks that Ryan Egerdahl and his group are planning on presenting the FY17 negative power purchase issue to the Council (currently in process of completing the presentation). If I hear anything else, I will let you know.

Sharon

**From:** Grant, Sharon D (BPA) - EWU-4  
**Sent:** Wednesday, April 18, 2018 8:56 AM  
**To:** 'John Harrison'  
**Subject:** RE: Questions

Good morning, John.

I have input my responses below to keep them with the question.

Let me know if I can provide any other help.

Sharon Grant  
Bonneville Power Administration  
503-230-5215

**From:** John Harrison [mailto:jharrison@nwcouncil.org]  
**Sent:** Tuesday, April 17, 2018 3:29 PM  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Subject:** [EXTERNAL] Questions

Sharon:

I have two (so far) questions as I'm putting together the report.

I'm still hoping to get an explanation of the negative \$20 million in power purchases costs,

The Finance folks (Alex Lennox and Brenda Weller) have sent your request to a few Power folks to respond to you. I think either Ryan Egerdahl (rjegerdahl@bpa.gov) or Will Rector (werector@bpa.gov) will respond.

and otherwise:

- Why is 2017 capital in spreadsheet 3, direct program expenditures of FCRPS BiOp projects, negative \$396,792?

Both this spreadsheet (3) and the next (4) are the result of over-accruing costs in the previous year.

Unfortunately, I missed adding the footnote for this one as was added to (4):

“Negative values for Capital Spending are a result of over-accruing costs in the previous year.”

Basically, the accrual reverses from FY16 were greater than the actual amount spent for FY17.

- Could I get an explanation of the negative numbers under capital spending in spreadsheet 4, direct program expenditures on ESA-listed fish? Maybe it's the same explanation as for No.3?

Yes, it is the same explanation, and the footnote actually is in there for this one ☺ regarding the over-accruing issue. I noticed the same amount is used by both; I double-checked and that is correct.

John

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John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

**From:** Lane,Jeffrey W (BPA) - EWB-4  
**Sent:** Tue Feb 26 11:19:47 2019  
**To:** 'jharrison@nwcouncil.org'  
**Cc:** Fisher,Daniel H (BPA) - PSR-6; Lennox,Alexander (BPA) - FTR-2; Read,Christine L (BPA) - EWB-4  
**Subject:** FW: Rates question for our report on fish and wildlife costs  
**Importance:** Normal  
**Attachments:** Overview for final FY18 SpS.pdf

Hello John,

Alex and Daniel asked me to chime in on your question regarding the F&W program and the spill surcharge. Hopefully this statement (refined by Alex) gets to your objective:

**The FY 2018 fish and wildlife budget was reduced by \$20 million when compared to the rate case forecast, from \$277 million to \$256 million. Actual direct spending in FY 2018 ended up at \$248 million. At the same time, though, BPA changed the attribution of corporate overhead costs and assigned more to fish & wildlife. This was done to better reflect how corporate organizations support fish and wildlife which ensured that these costs would be captured in the calculation of the 4(h)(10)(C) credit. As a result, the total spending appears as \$258 million in the total cost table.**

Also, please see the attached summary overview of the spill surcharge (thanks Daniel).

Thanks,  
Jeff

**Jeff Lane**  
Manager | Business Ops Support (EWB), Fish & Wildlife  
[Bonneville Power Administration](#)  
[jwlane@bpa.gov](mailto:jwlane@bpa.gov) | Ph 503-230-3064

**From:** John Harrison [mailto:jharrison@nwcouncil.org]  
**Sent:** Tuesday, February 26, 2019 9:08 AM  
**To:** Lennox,Alexander (BPA) - FTR-2  
**Cc:** Fisher,Daniel H (BPA) - PSR-6  
**Subject:** [EXTERNAL] RE: Rates question for our report on fish and wildlife costs

Thanks, Alex. I like your edits, and I look forward to hearing from Daniel. Thanks for including him.

I have a corollary question for you, which has to do with the 2018 spill surcharge. Could you or Daniel provide a couple of sentences or a short paragraph explaining the spill surcharge in FY 2018, as I assume it affected the fish and wildlife budget. Also, is there a place in the reporting of actual costs where this shows up?

John

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John Harrison  
Information Officer  
Northwest Power and Conservation Council  
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(b)(6) (cell)

**From:** Lennox,Alexander (BPA) - FTR-2 <alennox@bpa.gov>  
**Sent:** Tuesday, February 26, 2019 8:55 AM  
**To:** John Harrison <jharrison@nwcouncil.org>  
**Cc:** Fisher,Daniel H (BPA) - PSR-6 <dhhfisher@bpa.gov>  
**Subject:** RE: Rates question for our report on fish and wildlife costs

I'm adding Daniel Fisher, the power rates manager, to the chain since this is squarely in his shop. I'm sure he'll have an opinion about your final question. As for the paragraph, I suggest some edits. Actuals are always different than the forecast but not always lower. Actuals can always be higher.

The question of what happens to the difference between the forecast and actual results in an interesting one. One of the challenges is that all of the variables used to compute rate change as we move forward in time. Generally though we do everything we can to avoid changing rates during the rate period. If we are seeing poor secondary sales results in an operating year, we may make changes to budgets to try to offset the lost revenue. This happened to the fish and wildlife budget last year. If the cost of fish and wildlife is lower than originally forecast, it doesn't mean that power is suddenly flush with cash. It generally offsets higher costs or lower revenues elsewhere. Power has actually seen its financial reserves decline quite a bit over the last decade.

**From:** John Harrison [mailto:jharrison@nwcouncil.org]  
**Sent:** Tuesday, February 26, 2019 8:29 AM  
**To:** Lennox,Alexander (BPA) - FTR-2  
**Subject:** [EXTERNAL] RE: Rates question for our report on fish and wildlife costs

Alex, I'm rethinking this a bit.

While I don't want to get into the particulars of the current rate case, I wonder if something more generic might work and also answer a lingering question about money collected in rates versus actual expenditures.

For example, what if I rewrote the paragraph along these lines:

-----  
Fish and wildlife costs account for a significant portion of the rate Bonneville charges its wholesale power customers. Approximately one third of Bonneville's 2017-2019 wholesale rate of \$35.57 per megawatt hour is estimated to be associated with its fish and wildlife program. In setting rates, Bonneville estimates direct fish and wildlife costs and forgone revenues attributable to fish and wildlife for the rate period. ~~The amounts collected in rates generally are higher than the~~ Actual costs during a fiscal year **will differ from forecasts**. This is because the amounts included in rates are estimates of future costs, ~~not actual costs~~

often made a rate case several years in advance. Actual costs will be determined by market price, streamflow, and other operational conditions during the operating year which can vary significantly from forecasts. This report only includes actual fish and wildlife costs, as reported by Bonneville, not the estimated costs in rates.

-----  
So the question one of my frequent pen pals on this report asks every year, and already has asked this year, is, how great is the difference, and what happens to the money that is collected for fish and wildlife in rates but not spent on fish and wildlife? In other words, there is a difference between forecasted costs and actual costs. The forecasted amount is collected. Where does it go?

Help.

John

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
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**From:** Lennox,Alexander (BPA) - FTR-2 <alennox@bpa.gov>  
**Sent:** Monday, February 25, 2019 6:12 AM  
**To:** John Harrison <jharrison@nwcouncil.org>  
**Subject:** RE: Rates question for our report on fish and wildlife costs

My temptation is to delete it. The rate impact is really based on the forecast of costs, which you don't see, rather than actuals, which you do see. Actuals can be quite different than forecast with the financial impact of hydro operations being the huge wild card.

**From:** John Harrison [mailto:jharrison@nwcouncil.org]  
**Sent:** Friday, February 22, 2019 2:54 PM  
**To:** Lennox,Alexander (BPA) - FTR-2  
**Subject:** [EXTERNAL] Rates question for our report on fish and wildlife costs

Alex, this paragraph was in last year's report. I know we have a different rate case

now. Should we update this paragraph, or just delete it for the new report?

Thanks,  
John

BPA's forecast annual total power cost for the BP16 rate period was \$2.348 billion and includes \$535 million in direct fish and wildlife costs. In addition to BPA's forecast direct fish and wildlife costs, Bonneville estimated roughly \$200 million in forgone revenue for a total forecast annual fish and wildlife cost of \$735 million, which is 31 percent of \$2.348 billion, or approximately one-third, which is the approximate impact to rates. These estimates assume 2014 Biological Opinion operations and include the portion of costs allocated to non-power uses of the dams (Northwest Power Act Section 4(h)10(C)).

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John Harrison  
Information Officer  
Northwest Power and Conservation Council  
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## Final FY 2018 Spill Surcharge

The final FY 2018 Spill Surcharge amount is \$10.2 million (see chart below), which translates into a final FY 2018 Spill Surcharge rate of 0.71 mills per kWh applied to non-Slice power sales for the period June–September, 2018.

The final FY 2018 Spill Surcharge is the same as that provided to interested parties for review and comment in May of this year. Please see the [Spill Surcharge – FY 2018 webpage](#) for additional information:

- The Administrator’s decision document, which addresses the comments received from customers and interested parties.
  - Attachment 2 shows additions to the 2018 Power Rates Schedules and General Rate Schedule Provisions to reflect the final FY 2018 Spill Surcharge rates.
- Documentation

### Background

The Spill Surcharge (Appendix C of BPA’s 2018 Power Rate Schedules and GRSPs) is a formula rate adjustment that approximates the additional amount that customers would have been charged if BPA had known the planned spill operations when setting final BP-18 rates.

The Spill Surcharge is calculated independently for each year of the FY 2018–2019 rate period based on planned spill operations for each year.

| FY 2018 Spill Surcharge Amount – Formula |                         |   |
|--|-------------------------|---|
| Spill Cost                               | \$38.6 million          | The average lost generation due to more planned spill, over the modeled 80 historical water year record, multiplied by the rate case forecast Mid-C electricity price.  |
| Cost Reduction (CostR)                   | <u>(\$15.5 million)</u> | Program spending reductions relative to those assumed for setting BP-18 rates. Represents a forecast reduction of \$20 million of F&W costs and the corresponding reduction in the NW Power Act section 4(h)(10)(C) credit (22.3% credit on F&W costs). |
|  | \$23.1 million          |   |
| Non-Slice                                | <u>× .7726</u>          | Adjusts formula to reflect costs associated with non-Slice PF power sales only.   |
|  | \$17.8 million          |   |
| Secondary Reduction (SecR)               | <u>(\$7.6 million)</u>  | Accounts primarily for the impact that more spill would have on the market-clearing price for the remaining secondary sales.  |
| <b>FY 2018 Spill Surcharge Amount</b>    | \$10.2 million          |   |

06-21-2018

**From:** Grant, Sharon D (BPA) - EWB-4  
**Sent:** Thu Nov 01 08:23:08 2018  
**To:** John Harrison  
**Cc:** Lennox, Alexander (BPA) - FTR-2  
**Subject:** FW: That big table of F&W costs  
**Importance:** Normal  
**Attachments:** 1 and 12 Costs by major area FY 2017.xlsx

Hi John,

I am not sure if **the Cost of BPA F&W actions** table has yet been updated, but I included Alex Lennox on this to ask him directly.

I am reasonably certain that BPA Finances' actions table is accurate for actual costs. As far as the discrepancies you noted below, have you confirmed that you are comparing actuals to actuals, instead of rate case numbers, or SOY, to actuals? I talked to my boss, Jeff Lane, Manager of F&W Business Operations, and he thought this may be the case. He is currently working on answers to Tony Grover's questions so hopefully we can sort this out.

Thanks,

Sharon Grant  
Fish & Wildlife Program  
Bonneville Power Administration  
503-230-5215

**From:** John Harrison [mailto:jharrison@nwcouncil.org]  
**Sent:** Wednesday, October 31, 2018 4:09 PM  
**To:** Grant, Sharon D (BPA) - EWB-4  
**Subject:** [EXTERNAL] That big table of F&W costs

Sharon, attached is the last version of what I call The Big Spreadsheet (all costs), and I'm writing to ask if there is an updated version. Our fish and wildlife division director Tony Grover is working with John Skidmore to develop a memo to our fish and wildlife committee for our November meeting on costs and cost reductions that will take place in the next fiscal year. Some of his numbers are different than the ones in the attached, specifically lines 13 (he has \$33.4 million; we have \$26 million) and 18 (he has \$276.5 million; we have \$254.7 million) for 2017. He told me he got his numbers from CBFish, and I have no idea where they get them or what they add together to get totals. Anyway, I just wanted to ask you if there is an update of this spreadsheet.

Thanks,  
John

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John Harrison  
Information Officer  
Northwest Power and Conservation Council

503-222-5161 (office)  
(b)(6) (cell)



**From:** Harrison, John  
**Sent:** Wed Mar 29 16:48:29 2017  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Subject:** Forgone revenues and power purchases in FY 2016  
**Importance:** Normal

Hi, Sharon:

In the piece of text below from the draft report on FY 2016 fish and wildlife costs, the highlighted numbers are from last year's report. The other numbers are for 2016.

Are you the one who can supply the MWA numbers that were used to calculate the FY 16 forgone revenues and power purchases, or would it be Alex Lennox (or someone else)?

Thanks,  
John

In Fiscal Year 2016, the overall annual average difference between the two studies was **1,275 average-megawatts**. Of this, about **1,024 average-megawatts** contributed to the estimated \$76.6 million in forgone revenue. About **251 average megawatts** contributed to the estimated \$50.3 million in replacement power purchases. As noted above, Bonneville receives a credit under Section 4(h)(10)(C) of the Northwest Power Act as reimbursement for the non-power share of fish and wildlife costs that Bonneville pays annually, including a portion of the power purchases. Other costs are not factored into that 4(h)(10)(C) credit, such as forgone revenue, interest on Treasury borrowing, amortization and depreciation of capital projects, reimbursable expenditures, and the Council budget. Non-power purposes such as irrigation, navigation, and flood control comprise a weighted, system-wide average of 22.3 percent of the authorized purposes of the federal dams. The annual credit to Bonneville is based on this percentage.

The 2016 credit was \$72.6 million. In effect, the credit reduces the fish and wildlife costs paid by electricity ratepayers. As noted earlier in this report, the grand total of all fish and wildlife costs incurred by Bonneville in 2016 was approximately \$621.5 million (including foregone revenue). Applying the 4(h)(10)(C) credit reduces Bonneville's total fish and wildlife-related costs, meaning that ratepayers were responsible for \$548.9 million and the federal government was responsible for the nonpower-purposes share of \$72.6 million.

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John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
**(b)(6)** (cell)

**From:** Read,Christine L (BPA) - EWB-4  
**Sent:** Fri Oct 18 12:56:50 2019  
**To:** John Harrison  
**Subject:** Gov Report for FY19  
**Importance:** Normal

Hi John,

I hope you are doing well. I believe our FY19 financials are audited, so I can start on the Governors report. Are any changes needed from last year format?

Thanks so much!

Chris

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**Christine Read**

Program Analyst  
BPA | F&W Division  
clread@bpa.gov  
(503) 230-5321

**From:** Harrison, John  
**Sent:** Thu May 04 10:29:24 2017  
**To:** Sharon Grant  
**Subject:** Individual contractors for annual report on F&W costs  
**Importance:** Normal

Hi, Sharon:

A couple of our Council members want us to include in our annual report to the governors that long list of individual contractors and the amounts they have received over time. We dropped that last year because we thought it was too much detail, but now they want it back because, one said, 'it adds transparency' to the program and the report.

Question: Is this something you still can provide?

Thanks,

John

John Harrison  
Northwest Power and Conservation Council  
503-222-5161  
[www.nwcouncil.org](http://www.nwcouncil.org)

**From:** Grant, Sharon D (BPA) - EWU-4

**Sent:** Fri Mar 27 09:04:32 2015

**To:** Harrison, John (jharrison@nwcouncil.org)

**Subject:** Items for the Governors Report, Part 1

**Importance:** Normal

**Attachments:** 1-Direct Program Expenditures by Species-Exp&Cap.xlsx; 2-Direct Program Expenditures of FCRPS BiOp projects.xlsx; 3-Direct Program Spending On ESA Listed Focal Species.xlsx; 3-Direct Program Spending On ESA Listed Focal Species-FY13REV.xlsx; 4-Direct Program Expenditures by Fund.xlsx; 5-Direct Program Expenditures by Purpose and Emphasis.xlsx; 5-Direct Program Expenditures by Purpose and Emphasis-FY13REV.xlsx; 6-Direct Program Expenditures by Category.xlsx

Hi John,

I finally got Bryan Mercier and Bill Maslen to OK the reports. I'm splitting it between 2 emails since there are quite a few. Since I updated FY13, there are 3 stand-alone reports for last year.

Sharon Grant  
Bonneville Power Administration  
503-230-5215

| Direct Program Expenditures by Species, FY2014  |                      |                      |                      |                      |                      |                      |                      |                      |                      |
|---|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Species Type  | 2006                 | 2007                 | 2008                 | 2009                 | 2010                 | 2011                 | 2012                 | 2013 <sup>3</sup>    | 2014                 |
| <b>Expense Expenditures</b>   |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| Anadromous Fish   | \$97,220,989         | \$95,383,739         | \$93,937,949         | \$115,447,417        | \$133,710,043        | \$152,268,152        | \$172,625,717        | \$162,598,813        | \$159,920,064        |
| Resident Fish   | \$19,147,678         | \$20,466,941         | \$30,166,347         | \$30,945,640         | \$33,492,947         | \$30,469,680         | \$41,986,004         | \$39,747,604         | \$34,496,095         |
| Wildlife  | \$7,380,452          | \$8,894,314          | \$10,153,866         | \$11,491,287         | \$12,105,809         | \$12,032,226         | \$13,214,570         | \$11,401,471         | \$12,210,189         |
| Program Support   | \$14,113,271         | \$14,499,336         | \$14,620,375         | \$19,975,090         | \$20,280,762         | \$18,278,218         | \$21,130,595         | \$25,235,638         | \$26,154,414         |
| CJH Cost Share  |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| <b>Capital Expenditures</b>   |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| Anadromous Fish   | \$9,409,949          | \$9,738,655          | \$8,817,105          | \$11,123,909         | \$26,914,846         | \$56,777,879         | \$33,006,552         | \$32,486,551         | \$6,079,913          |
| Resident Fish   | \$6,540,613          | \$977,724            | \$843,692            | \$10,279,652         | \$3,163,912          | \$20,472,138         | \$11,692,569         | \$8,440,507          | \$16,958,535         |
| Wildlife  | \$19,462,457         | \$24,469,222         | \$6,505,720          | \$2,261,438          | \$9,564,849          | \$18,676,437         | \$15,853,187         | \$10,813,833         | \$14,438,818         |
| Program Support <sup>2</sup>  | \$1,141              | \$0                  | \$9,347,954          | \$3,747,363          | \$354,784            | -\$101,012           | \$42,215             | \$375,475            | -\$123,918           |
| CJH Cost Share  |                      |                      |                      |                      |                      | -\$5,658,821         | -\$3,141,637         |                      |                      |
| <b>TOTAL</b>  | <b>\$173,276,548</b> | <b>\$174,429,930</b> | <b>\$174,413,008</b> | <b>\$205,271,805</b> | <b>\$239,587,953</b> | <b>\$311,214,895</b> | <b>\$308,409,772</b> | <b>\$291,101,892</b> | <b>\$269,134,110</b> |
| Notes:  |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| 1) Starting in 2008, Spending can be tracked back to a work element where the contractor explicitly identified the "Primary focal Species" benefiting from the work.  |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| 2) Program Support includes includes contracts that contain only administrative work elements or program level spending that could not be mapped to a specific project, as well as BPA internal overhead such as personnel costs. |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| 3) FY2013 revised as of March 2, 2015.  |                      |                      |                      |                      |                      |                      |                      |                      |                      |

| <b>Direct Program Expenditures of FCRPS BiOp Projects, FY2014</b>  |                      |                      |                      |                      |                      |                      |                      |
|--|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Category   | 2008                 | 2009                 | 2010                 | 2011                 | 2012                 | 2013 <sup>2</sup>    | 2014                 |
| Expense  | \$91,806,508         | \$113,900,603        | \$129,758,323        | \$143,477,289        | \$162,060,445        | \$151,177,409        | \$143,469,098        |
| Capital  | \$9,869,097          | \$11,668,863         | \$21,761,323         | \$31,297,548         | \$29,240,867         | \$29,683,425         | \$5,925,196          |
| <b>TOTAL</b>   | <b>\$101,675,605</b> | <b>\$125,569,466</b> | <b>\$151,519,646</b> | <b>\$174,774,837</b> | <b>\$191,301,312</b> | <b>\$180,860,834</b> | <b>\$149,394,294</b> |
| <b>Notes:</b>  |                      |                      |                      |                      |                      |                      |                      |
| 1) Estimated spending is based at the project level. Therefore, if a project partially supports the FCRPS BiOp, all expenditures for the project are included. |                      |                      |                      |                      |                      |                      |                      |
| 2) FY2013 revised as of Feb. 27, 2015.   |                      |                      |                      |                      |                      |                      |                      |

| Direct Program Expenditures on ESA Listed Fish, 2014  |                           |  |                        |                           |  |                        |                      |
|---|---------------------------|--|------------------------|---------------------------|--|------------------------|----------------------|
| ESA Listed Focal Species Name   | Expense "Direct" Spending | Expense "Contract Administration" Spending | Expense Total Spending | Capital "Direct" Spending | Capital "Contract Administration" Spending | Capital Total Spending | Total Spending       |
| Chinook - Lower Columbia River ESU (threatened)   | \$4,785,157               | \$1,429,357                                | \$6,214,514            | \$496,010                 | (\$16,209)                                 | (\$512,218)            | \$5,702,295          |
| Chinook - Snake River Fall ESU (threatened)   | \$7,677,815               | \$3,456,732                                | \$11,174,547           | \$0                       | \$0  | \$0                    | \$11,174,547         |
| Chinook - Snake River Spring/Summer ESU (threatened)  | \$18,408,373              | \$4,956,795                                | \$23,365,168           | \$959,477                 | \$16,449                                   | \$975,926              | \$23,634,094         |
| Chinook - Upper Columbia River Spring ESU (endangered)  | \$9,079,253               | \$5,044,268                                | \$14,123,521           | \$96,679                  | \$21,562                                   | \$118,241              | \$14,241,762         |
| Chinook - Upper Willamette River ESU (threatened)   | \$3,137,256               | \$1,292,815                                | \$4,430,071            | \$104,041                 | \$594,187                                  | \$698,228              | \$5,088,299          |
| Chum - Columbia River ESU (threatened)  | \$2,175,510               | \$424,945                                  | \$2,600,555            | \$0                       | \$0  | \$0                    | \$2,600,555          |
| Coho - Lower Columbia River ESU (threatened)  | \$2,769,567               | \$795,022                                  | \$3,564,589            | \$0                       | \$0  | \$0                    | \$3,564,589          |
| Sockeye - Snake River ESU (endangered)  | \$6,006,178               | \$1,074,548                                | \$7,080,726            | \$1,780,911               | \$3,704                                    | \$1,784,615            | \$6,865,341          |
| Steelhead - Lower Columbia River DPS (threatened)   | \$4,549,466               | \$1,192,089                                | \$5,741,555            | (\$529,090)               | (\$16,948)                                 | (\$546,038)            | \$5,195,497          |
| Steelhead - Middle Columbia River DPS (threatened)  | \$22,566,759              | \$8,320,609                                | \$30,705,440           | \$2,444,205               | \$613,078                                  | \$3,057,283            | \$33,762,723         |
| Steelhead - Snake River DPS (threatened)  | \$17,646,100              | \$4,304,127                                | \$21,950,227           | \$294,226                 | \$16,449                                   | \$310,675              | \$22,260,902         |
| Steelhead - Upper Columbia River DPS (endangered)   | \$11,439,720              | \$3,946,077                                | \$15,385,797           | \$356,608,26              | \$34,664,42                                | \$391,272,68           | \$15,777,070         |
| Steelhead - Upper Willamette River DPS (threatened)   | \$1,798,855               | \$949,006                                  | \$2,747,860            | \$104,038                 | \$554,186                                  | \$658,224              | \$3,406,084          |
| Chub, Oregon (endangered)   | \$195,269                 | \$256,063                                  | \$451,331              | \$0                       | \$0  | \$0                    | \$451,331            |
| Cutthroat Trout, Lahontan (threatened)  | \$613,398                 | \$567,556                                  | \$1,180,954            | \$0                       | \$0  | \$0                    | \$1,180,954          |
| Sturgeon, White - Kootenai River DPS (endangered)   | \$7,256,514               | \$1,920,447                                | \$9,177,061            | \$1,232,838               | \$3,729                                    | \$12,236,564           | \$21,433,625         |
| Trout, Bull (threatened)  | \$6,613,232               | \$4,745,633                                | \$11,359,565           | \$4,699,026               | \$65,154                                   | \$4,764,180            | \$16,123,745         |
| <b>TOTAL</b>  | <b>\$126,719,122</b>      | <b>\$44,709,169</b>                        | <b>\$171,428,291</b>   | <b>\$21,360,050</b>       | <b>\$1,850,782</b>                         | <b>\$23,210,832</b>    | <b>\$194,639,129</b> |
| <b>Notes:</b>   |                           |  |                        |                           |  |                        |                      |
| 1) Direct spending can be tracked back to a work element where the contractor explicitly identified the "Primary Focal Species" benefiting from the work.                       |                           |  |                        |                           |  |                        |                      |
| 2) Contract Administration spending can be tracked back to a work element that did not require the contractor to identify the "Primary Focal Species" benefiting from the work. |                           |  |                        |                           |  |                        |                      |
| 3) Negative values for Capital Spending are a result of overaccruing costs in the previous year.  |                           |  |                        |                           |  |                        |                      |

| Direct Program Expenditures on ESA Listed Fish, 2013 <sup>3</sup>   |                           |  |                        |                           |  |                        |                      |
|---|---------------------------|--|------------------------|---------------------------|--|------------------------|----------------------|
| ESA Listed Focal Species Name   | Expense "Direct" Spending | Expense "Contract Administration" Spending | Expense Total Spending | Capital "Direct" Spending | Capital "Contract Administration" Spending | Capital Total Spending | Total Spending       |
| Chinook - Lower Columbia River ESU (threatened)   | \$4,725,817               | \$1,542,788                                | \$6,268,605            | \$2,005,811               | \$6,369                                    | \$2,002,180            | \$8,330,785          |
| Chinook - Snake River Fall ESL (threatened)   | \$7,512,500               | \$3,657,927                                | \$11,170,428           | (\$209)                   | \$0  | (\$209)                | \$11,570,219         |
| Chinook - Snake River Spring/Summer ESU (threatened)  | \$17,006,658              | \$5,017,184                                | \$22,023,842           | \$229,046                 | \$47,811                                   | \$276,857              | \$22,299,199         |
| Chinook - Upper Columbia River Spring ESU (endangered)  | \$9,253,676               | \$4,937,772                                | \$14,191,449           | \$1,231,990               | \$274,813                                  | \$1,506,803            | \$15,698,252         |
| Chinook - Upper Willamette River ESU (threatened)   | \$2,575,653               | \$1,666,626                                | \$4,642,279            | \$3,234,019               | \$1,983,894                                | \$5,217,913            | \$5,860,192          |
| Chum - Columbia River ESU (threatened)  | \$2,663,454               | \$505,609                                  | \$3,169,063            | \$0                       | \$0  | \$0                    | \$3,169,063          |
| Coho - Lower Columbia River ESU (threatened)  | \$3,496,963               | \$1,115,919                                | \$4,612,882            | (\$14)                    | \$0  | (\$14)                 | \$4,612,867          |
| Snakeye - Snake River FSU (endangered)  | \$5,599,543               | \$1,379,714                                | \$6,779,257            | \$7,454,897               | \$14,894                                   | \$7,471,651            | \$14,243,908         |
| Steelhead - Lower Columbia River DPS (threatened)   | \$4,672,215               | \$1,323,098                                | \$5,995,313            | \$1,878,405               | \$63,438                                   | \$1,941,839            | \$7,627,652          |
| Steelhead - Middle Columbia River DPS (threatened)  | \$3,659,126               | \$10,472,740                               | \$14,131,866           | \$5,783,454               | \$1,209,092                                | \$6,792,547            | \$41,124,412         |
| Steelhead - Snake River DPS (threatened)  | \$15,789,389              | \$4,784,010                                | \$20,573,399           | \$200,300                 | \$47,314                                   | \$277,614              | \$20,851,013         |
| Steelhead - Upper Columbia River DPS (endangered)   | \$13,895,291              | \$3,743,337                                | \$17,638,628           | \$65,720                  | \$6,357                                    | \$72,077               | \$17,730,705         |
| Steelhead - Upper Willamette River DPS (threatened)   | \$2,085,388               | \$1,210,921                                | \$3,296,309            | \$3,234,172               | \$1,983,897                                | \$5,218,069            | \$6,514,078          |
| Chub - Oregon (endangered)  | \$191,445                 | \$322,232                                  | \$523,677              | \$1,812,812               | \$1,202,745                                | \$2,815,578            | \$3,339,255          |
| Cutthroat Trout - Lakonan (threatened)  | \$660,280                 | \$578,154                                  | \$1,438,432            | \$0                       | \$0  | \$0                    | \$1,438,432          |
| Sturgeon - White - Kootenai River DPS (endangered)  | \$9,187,447               | \$2,126,199                                | \$11,343,646           | \$3,301,372               | \$1,022                                    | \$3,302,394            | \$14,646,740         |
| Trout, Bull (threatened)  | \$7,291,254               | \$4,984,493                                | \$12,775,747           | \$3,794,467               | \$95,803                                   | \$3,890,272            | \$16,665,858         |
| <b>TOTAL</b>  | <b>\$131,465,548</b>      | <b>\$49,421,721</b>                        | <b>\$180,887,269</b>   | <b>\$54,258,674</b>       | <b>\$6,576,902</b>                         | <b>\$40,835,575</b>    | <b>\$221,722,844</b> |
| <b>Notes:</b>   |                           |  |                        |                           |  |                        |                      |
| 1) Direct spending can be tracked back to a work element where the contractor explicitly identified the "Primary Focal Species" benefiting from the work.                       |                           |  |                        |                           |  |                        |                      |
| 2) Contract Administration spending can be tracked back to a work element that did not require the contractor to identify the "Primary Focal Species" benefiting from the work. |                           |  |                        |                           |  |                        |                      |
| 3) Revised on March 2, 2015   |                           |  |                        |                           |  |                        |                      |

| Direct Program Expenditures by Fund, FY2014   |                       |                       |                       |                       |                       |                       |                       |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| FUND  | FY2008                | FY2009                | FY2010                | FY2011                | FY2012                | FY2013 <sup>3</sup>   | FY2014                |
| Total BiOp (non Accords)  |                       | \$ 73,084,433         | \$ 88,120,408         | \$ 103,237,648        | \$ 109,818,406        | \$102,742,463         | \$94,155,534          |
| Total Accords <sup>1</sup>  | \$ 31,917,878         |                       |                       |                       |                       |                       |                       |
| Total Accords - BiOp  |                       | \$ 35,655,361         | \$ 64,187,623         | \$ 79,829,739         | \$ 76,351,240         | \$75,238,565          | \$53,834,339          |
| Total Accords - non-BiOp  |                       | \$ 18,896,601         | \$ 20,983,783         | \$ 37,606,835         | \$ 45,782,424         | \$48,583,014          | \$30,324,963          |
| Total General   | \$ 130,932,844        | \$ 62,498,937         | \$ 51,765,457         | \$ 73,608,793         | \$ 58,956,587         | \$48,813,941          | \$53,903,065          |
| Total BPA Overhead  | \$ 11,562,295         | \$ 13,137,473         | \$ 14,530,682         | \$ 14,911,880         | \$ 15,501,115         | \$15,723,909          | \$16,916,169          |
| <b>TOTAL PROGRAM</b>  | <b>\$ 174,413,007</b> | <b>\$ 205,272,805</b> | <b>\$ 239,587,953</b> | <b>\$ 311,214,895</b> | <b>\$ 304,409,772</b> | <b>\$ 291,101,892</b> | <b>\$ 269,134,110</b> |
| <b>Notes:</b>   |                       |                       |                       |                       |                       |                       |                       |
| 1) BiOp tracking at fund level began in 2009. Accords began in 2008.  |                       |                       |                       |                       |                       |                       |                       |
| 2) Spending is estimated based on the % of funding towards a project. For example, if a project budget is 70% BiOp and 30% General, the project expenditures will be prorated 70% towards BiOp and 30% General. |                       |                       |                       |                       |                       |                       |                       |
| 3) FY2013 revised as of March 2, 2015.  |                       |                       |                       |                       |                       |                       |                       |

**Direct Program Expenditures by Purpose & Emphasis, FY2014**

|                        | <b>Artificial<br/>Production</b> | <b>Habitat</b>       | <b>Harvest</b>     | <b>Hydrosystem</b> | <b>Predation</b>   | <b>Programmatic</b> |
|------------------------|----------------------------------|----------------------|--------------------|--------------------|--------------------|---------------------|
| Data Management        |                                  | \$161,645            |                    | \$293,851          |                    | \$3,789,311         |
| Harvest Augmentation   | \$4,062,872                      |                      |                    |                    |                    |                     |
| Law Enforcement        |                                  |                      | \$883,679          |                    |                    |                     |
| Local Coordination     | \$633,509                        | \$2,140,932          |                    |                    |                    | \$4,713,947         |
| Predator Removal       |                                  |                      |                    |                    | \$3,879,435        |                     |
| Regional Coordination  |                                  | \$97,475             |                    |                    |                    | \$20,324,584        |
| Restoration/Protection |                                  | \$102,422,790        |                    |                    |                    |                     |
| RM and E               | \$24,046,106                     | \$13,133,028         | \$1,228,057        | \$6,753,430        | \$1,991,053        | \$33,432,127        |
| Supplementation        | \$45,146,279                     |                      |                    |                    |                    |                     |
| <b>Total</b>           | <b>\$73,888,765</b>              | <b>\$117,955,870</b> | <b>\$2,111,737</b> | <b>\$7,047,281</b> | <b>\$5,870,488</b> | <b>\$62,259,969</b> |

**Notes:**

1) Estimated spending is based at the project level. Therefore if a project is labeled AP, but also supports Habitat, the expenditures are counted as AP.

| Direct Program Expenditures by Purpose & Emphasis, FY2013 <sup>2</sup>  |                       |                      |                    |                    |                    |                     |
|---|-----------------------|----------------------|--------------------|--------------------|--------------------|---------------------|
|   | Artificial Production | Habitat              | Harvest            | Hydrosystem        | Predation          | Programmatic        |
| Data Management   |                       | \$133,525            |                    | \$296,792          |                    | \$3,550,034         |
| Harvest Augmentation  | \$4,077,995           |                      |                    |                    |                    |                     |
| Law Enforcement   |                       |                      | \$750,780          |                    |                    |                     |
| Local Coordination  | \$785,309             | \$3,745,868          |                    |                    |                    | \$6,462,661         |
| Predator Removal  |                       |                      |                    |                    | \$3,309,064        |                     |
| Regional Coordination   |                       | \$79,248             |                    |                    |                    | \$19,001,075        |
| Restoration/Protection  |                       | \$118,831,309        |                    |                    |                    |                     |
| RM and E  | \$23,588,530          | \$12,969,685         | \$1,053,094        | \$7,218,238        | \$2,062,170        | \$33,161,752        |
| Supplementation   | \$50,024,766          |                      |                    |                    |                    |                     |
| <b>Total</b>  | <b>\$78,476,600</b>   | <b>\$135,759,634</b> | <b>\$1,803,874</b> | <b>\$7,515,029</b> | <b>\$5,371,233</b> | <b>\$62,175,522</b> |
| <b>Notes:</b>   |                       |                      |                    |                    |                    |                     |
| 1) Estimated spending is based at the project level. Therefore if a project is labeled AP, but also supports Habitat, the expenditures are counted as AP. |                       |                      |                    |                    |                    |                     |
| 2) Revised as of February 27, 2015.   |                       |                      |                    |                    |                    |                     |

### Direct Program Expenditures by Category, FY2014

| Category                            | 2008                 | 2009                 | 2010                 | 2011                 | 2012                 | 2013 <sup>3</sup>    | 2014                 |
|-------------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Coordination (local/regional)       | \$15,227,116         | \$18,618,170         | \$22,462,594         | \$25,185,796         | \$28,135,259         | \$30,074,160         | \$27,910,447         |
| Data Management                     | \$2,803,385          | \$3,964,851          | \$4,199,379          | \$4,319,007          | \$4,130,748          | \$3,980,351          | \$4,244,807          |
| Habitat (Restoration/Protection)    | \$60,793,513         | \$76,781,454         | \$80,386,909         | \$123,373,947        | \$122,609,228        | \$118,831,309        | \$102,422,790        |
| Harvest Augmentation                | \$3,674,945          | \$3,417,255          | \$3,241,566          | \$3,599,302          | \$4,429,624          | \$4,077,995          | \$4,062,872          |
| Production (Supplementation)        | \$25,638,528         | \$28,175,648         | \$45,271,831         | \$61,846,889         | \$53,165,835         | \$50,024,766         | \$45,146,279         |
| Law Enforcement                     | \$1,119,159          | \$705,064            | \$656,356            | \$805,250            | \$853,122            | \$750,780            | \$883,679            |
| Predator Removal                    | \$3,208,172          | \$3,284,130          | \$3,549,112          | \$2,983,190          | \$3,558,732          | \$3,309,064          | \$3,879,435          |
| Research, Monitoring and Evaluation | \$61,948,189         | \$70,325,233         | \$79,820,206         | \$89,101,514         | \$89,527,224         | \$80,053,469         | \$80,583,801         |
| <b>Total</b>                        | <b>\$174,413,007</b> | <b>\$205,271,805</b> | <b>\$239,587,953</b> | <b>\$311,214,895</b> | <b>\$306,409,772</b> | <b>\$291,101,892</b> | <b>\$269,134,110</b> |

Notes:

- 1) Starting in 2008, as part an effort to improve how BPA manages our program's data and reporting, we have updated some of our old project categories. The new project categories are called "Purpose" and "Emphasis" where purpose describes the general goal or purpose of the project and emphasis describes the primary types of work being employed by the project. BPA program support is included within Coordination, Data Management and RM&E emphasis types.
- 2) Estimated spending is based at the project level. Therefore if a project is assigned an emphasis of Habitat, but also does RME, all expenditures for the project are included under Habitat.
- 3) FY2013 - No changes as of February 27, 2015

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**From:** Grant, Sharon D (BPA) - EWU-4 <sdgrant@bpa.gov>  
**Sent:** Friday, March 27, 2015 9:06 AM  
**To:** Harrison, John (jharrison@nwcouncil.org)  
**Subject:** Items for the Governors Report, Part 2  
**Attachments:** 7-Direct Program Expenditures Artificial Production by emphasis.xlsx; 8-Direct Program Support.xlsx; 8-Direct Program Support-FY13REV.xlsx; 9-Direct Program Expenditures by Province.xlsx; 10-Direct Program Expenditure by Contractor Type-Inc other list.xlsx; 11-Direct Expenditure of Land Acquisitions.xlsx; 12-Direct expenditures by State.xlsx; 1978-2014 Fish Costs.xlsx

John,

Here are the remainder of the reports.

Let me know if you have any questions.

Sharon Grant  
Bonneville Power Administration  
503-230-5215

| Direct Program Expenditures for Artificial Production, FY2014   |                     |                     |                     |                     |                     |                     |                     |                     |
|---|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Category  | 2007                | 2008                | 2009                | 2010                | 2011                | 2012                | 2013 <sup>2</sup>   | 2014                |
| Coordination (local/regional)   | \$641,817           | \$764,148           | -\$3,902            | \$640,554           | \$684,891           | \$664,088           | \$785,309           | \$633,509           |
| Harvest Augmentation  | \$3,054,888         | \$3,256,692         | \$3,417,255         | \$3,241,566         | \$3,599,302         | \$4,429,624         | \$4,077,995         | \$4,062,072         |
| RM and E  | \$19,614,680        | \$17,739,370        | \$17,335,478        | \$22,318,040        | \$22,583,163        | \$25,176,585        | \$23,588,530        | \$24,046,106        |
| Supplementation   | \$22,334,339        | \$26,177,769        | \$28,175,648        | \$45,271,831        | \$61,846,889        | \$53,165,835        | \$50,024,766        | \$45,146,279        |
| <b>Total</b>  | <b>\$45,645,724</b> | <b>\$47,937,980</b> | <b>\$48,924,480</b> | <b>\$71,471,991</b> | <b>\$88,714,245</b> | <b>\$83,436,132</b> | <b>\$78,476,600</b> | <b>\$73,888,765</b> |
| <b>Notes:</b>   |                     |                     |                     |                     |                     |                     |                     |                     |
| 1) Estimated spending is based at the project level. Therefore if a project is assigned an emphasis of Habitat, but also does RME, all expenditures for the project are included under Habitat. |                     |                     |                     |                     |                     |                     |                     |                     |
| 2) FY2013 - no changes as of February 27, 2015  |                     |                     |                     |                     |                     |                     |                     |                     |

| Direct Program Support, FY2014  |                        |                     |                         |                                    |
|---|------------------------|---------------------|-------------------------|------------------------------------|
| Area  | Emphasis Type          | BPA Program Support | Non-BPA Program Support | Grand Total<br>(Capital & Expense) |
| Basinwide   | Data Management        | \$512,923           | \$3,080,757             | \$3,593,680                        |
|   | Law Enforcement        |                     | \$212,231               | \$212,231                          |
|   | Local Coordination     |                     | \$557,722               | \$557,722                          |
|   | Regional Coordination  | \$15,590,384        | \$3,743,118             | \$19,333,502                       |
|   | Restoration/Protection |                     | \$3,169,660             | \$3,169,660                        |
|   | RM and E               | \$2,272,192         | \$23,473,388            | \$25,745,580                       |
|   | Supplementation        |                     | \$842,438               | \$842,438                          |
| <b>Basinwide Total</b>  |                        | <b>\$18,375,499</b> | <b>\$35,079,313</b>     | <b>\$53,454,812</b>                |
| Basinwide/Mainstem  | RM and E               |                     | \$568,933               | \$568,933                          |
| <b>Basinwide/Mainstem Total</b>   |                        | <b>\$0</b>          | <b>\$568,933</b>        | <b>\$568,933</b>                   |
| Mainstem  | Data Management        |                     | \$489,482               | \$489,482                          |
|   | Harvest Augmentation   |                     | \$134,850               | \$134,850                          |
|   | Law Enforcement        |                     | \$506,656               | \$506,656                          |
|   | Predator Removal       |                     | \$3,879,435             | \$3,879,435                        |
|   | RM and E               |                     | \$3,239,039             | \$3,239,039                        |
| <b>Mainstem Total</b>   |                        | <b>\$0</b>          | <b>\$8,249,463</b>      | <b>\$8,249,463</b>                 |
| Mainstem/Provincial   | Local Coordination     |                     | \$1,394,927             | \$1,394,927                        |
|   | RM and E               |                     | \$427,740               | \$427,740                          |
| <b>Mainstem/Provincial Total</b>  |                        | <b>\$0</b>          | <b>\$1,822,666</b>      | <b>\$1,822,666</b>                 |
| Ocean   | RM and E               |                     | \$1,069,341             | \$1,069,341                        |
| <b>Ocean Total</b>  |                        | <b>\$0</b>          | <b>\$1,069,341</b>      | <b>\$1,069,341</b>                 |
| Provincial  | Data Management        |                     | \$161,645               | \$161,645                          |
|   | Harvest Augmentation   |                     | \$3,928,022             | \$3,928,022                        |
|   | Law Enforcement        |                     | \$164,792               | \$164,792                          |
|   | Local Coordination     |                     | \$5,535,739             | \$5,535,739                        |
|   | Regional Coordination  |                     | \$1,088,558             | \$1,088,558                        |
|   | Restoration/Protection |                     | \$99,155,669            | \$99,155,669                       |
|   | RM and E               |                     | \$49,518,183            | \$49,518,183                       |
| Supplementation   |                        | \$44,303,841        | \$44,303,841            |                                    |
| <b>Provincial Total</b>   |                        | <b>\$0</b>          | <b>\$203,856,449</b>    | <b>\$203,856,449</b>               |
| Regional  | Restoration/Protection |                     | \$97,462                | \$97,462                           |
|   | RM and E               |                     | \$14,984                | \$14,984                           |
| <b>Regional Total</b>   |                        | <b>\$0</b>          | <b>\$112,446</b>        | <b>\$112,446</b>                   |
| <b>Grand Total</b>  |                        | <b>\$18,375,499</b> | <b>\$250,758,611</b>    | <b>\$269,134,110</b>               |
| <b>Notes:</b>   |                        |                     |                         |                                    |
| 1) Estimated spending is based at the project level. Therefore if a project is assigned an emphasis of Habitat, but also does RME, all expenditures for the project are included under Habitat. |                        |                     |                         |                                    |

Direct Program Support, FY2013 <sup>2</sup>

| Area                             | Emphasis Type          | BPA Program Support | non-BPA Program Support | Grand Total (Capital & Expense) |
|----------------------------------|------------------------|---------------------|-------------------------|---------------------------------|
| Basinwide                        | Data Management        | \$965,806           | \$2,503,128             | \$3,468,934                     |
|                                  | Law Enforcement        |                     | \$170,974               | \$170,974                       |
|                                  | Local Coordination     |                     | \$553,140               | \$553,140                       |
|                                  | Regional Coordination  | \$14,485,255        | \$3,772,928             | \$18,258,183                    |
|                                  | Restoration/Protection |                     | \$4,103,954             | \$4,103,954                     |
|                                  | RM and E               | \$2,093,605         | \$25,461,461            | \$27,555,066                    |
|                                  | Supplementation        |                     | \$1,043,309             | \$1,043,309                     |
| <b>Basinwide Total</b>           |                        | <b>\$17,544,667</b> | <b>\$37,608,894</b>     | <b>\$55,153,561</b>             |
| Basinwide/Mainstem               | RM and E               |                     | \$723,111               | \$723,111                       |
| <b>Basinwide/Mainstem Total</b>  |                        | <b>\$0</b>          | <b>\$723,111</b>        | <b>\$723,111</b>                |
| Basinwide/Ocean                  | RM and E               |                     | \$12,161                | \$12,161                        |
| <b>Basinwide/Ocean Total</b>     |                        | <b>\$0</b>          | <b>\$12,161</b>         | <b>\$12,161</b>                 |
| Mainstem                         | Data Management        |                     | \$402,891               | \$402,891                       |
|                                  | Harvest Augmentation   |                     | \$187,125               | \$187,125                       |
|                                  | Law Enforcement        |                     | \$446,734               | \$446,734                       |
|                                  | Predator Removal       |                     | \$3,309,064             | \$3,309,064                     |
|                                  | RM and E               |                     | \$3,355,482             | \$3,355,482                     |
| <b>Mainstem Total</b>            |                        | <b>\$0</b>          | <b>\$7,701,296</b>      | <b>\$7,701,296</b>              |
| Mainstem/Provincial              | Local Coordination     |                     | \$3,153,454             | \$3,153,454                     |
|                                  | RM and E               |                     | \$305,854               | \$305,854                       |
| <b>Mainstem/Provincial Total</b> |                        | <b>\$0</b>          | <b>\$3,459,308</b>      | <b>\$3,459,308</b>              |
| Ocean                            | RM and E               |                     | \$821,015               | \$821,015                       |
| <b>Ocean Total</b>               |                        | <b>\$0</b>          | <b>\$821,015</b>        | <b>\$821,015</b>                |
| Provincial                       | Data Management        |                     | \$108,525               | \$108,525                       |
|                                  | Harvest Augmentation   |                     | \$3,890,870             | \$3,890,870                     |
|                                  | Law Enforcement        |                     | \$133,071               | \$133,071                       |
|                                  | Local Coordination     |                     | \$7,287,243             | \$7,287,243                     |
|                                  | Regional Coordination  |                     | \$822,140               | \$822,140                       |
|                                  | Restoration/Protection |                     | \$114,727,355           | \$114,727,355                   |
|                                  | RM and E               |                     | \$47,280,780            | \$47,280,780                    |
|                                  | Supplementation        |                     | \$48,981,457            | \$48,981,457                    |
| <b>Provincial Total</b>          |                        | <b>\$0</b>          | <b>\$223,231,441</b>    | <b>\$223,231,441</b>            |
| <b>Grand Total</b>               |                        | <b>\$17,544,667</b> | <b>\$273,557,226</b>    | <b>\$291,101,892</b>            |

Notes:

- 1) Estimated spending is based at the project level. Therefore if a project is assigned an emphasis of Habitat, but also does RME, all expenditures for the project are included under Habitat.
- 2) FY2013 data revised as of February 27, 2015.

**Direct Program Expenditures by Province, FY2014**

| Province  | 2008                 | 2009                 | 2010                 | 2011 <sup>4</sup>    | 2012 <sup>4</sup>    | 2013 <sup>4</sup>    | 2014                 |
|---|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| BLUE MOUNTAIN                                     | \$9,336,015          | \$10,063,271         | \$12,243,309         | \$13,045,831         | \$13,498,753         | \$13,359,734         | \$14,631,881         |
| COLUMBIA CASCADE                                  | \$9,192,920          | \$18,334,391         | \$26,543,346         | \$52,343,560         | \$51,216,105         | \$36,245,776         | \$26,817,725         |
| COLUMBIA GORGE                                    | \$8,354,049          | \$13,046,970         | \$16,165,914         | \$19,962,308         | \$13,560,427         | \$14,326,142         | \$10,157,535         |
| COLUMBIA PLATEAU                                  | \$37,188,905         | \$42,706,871         | \$50,405,309         | \$59,165,613         | \$61,637,074         | \$61,223,676         | \$57,171,401         |
| COLUMBIA ESTUARY                                  | \$6,075,054          | \$8,056,193          | \$6,848,834          | \$9,469,437          | \$11,109,892         | \$15,336,657         | \$11,466,957         |
| INTERMOUNTAIN                                     | \$14,497,055         | \$12,350,282         | \$15,702,284         | \$17,198,718         | \$19,784,368         | \$16,144,888         | \$17,784,050         |
| LOWER COLUMBIA                                    | \$14,744,699         | \$11,181,219         | \$15,259,843         | \$41,609,286         | \$33,899,854         | \$44,562,896         | \$13,319,360         |
| MIDDLE SNAKE                                      | \$6,659,039          | \$3,299,192          | \$5,224,071          | \$4,433,754          | \$13,235,463         | \$3,315,759          | \$3,830,556          |
| MOUNTAIN COLUMBIA                                 | \$11,347,198         | \$21,341,820         | \$11,427,897         | \$24,894,377         | \$22,160,067         | \$20,849,803         | \$29,292,583         |
| MOUNTAIN SNAKE                                    | \$19,398,012         | \$21,934,884         | \$22,917,641         | \$28,149,960         | \$30,311,321         | \$28,453,559         | \$28,222,791         |
| UPPER SNAKE                                       | \$1,184,634          | \$1,466,476          | \$7,248,075          | \$4,904,675          | \$13,213,441         | \$10,805,582         | \$19,883,622         |
| OTHER <sup>2</sup>                                | \$6,167,509          | \$7,274,724          | \$6,826,368          | \$7,722,192          | \$6,872,463          | \$4,578,007          | \$4,788,832          |
| PROGRAM SUPPORT/ADMIN/OVERHEAD/OTHER <sup>3</sup> | \$30,267,918         | \$34,215,512         | \$42,775,062         | \$28,315,184         | \$15,910,542         | \$21,899,413         | \$31,766,819         |
| <b>Total</b>                                      | <b>\$174,413,007</b> | <b>\$205,271,805</b> | <b>\$239,587,953</b> | <b>\$311,214,895</b> | <b>\$306,409,772</b> | <b>\$291,101,892</b> | <b>\$269,134,110</b> |

**Notes:**

- 1) Starting in 2008, spending by province is tracked in Pisces based on where the contractor explicitly identified work location
- 2) Other includes "Undetermined" locations such as Ocean, Canada; and provinces not recognized by NPCC.
- 3) Program Support/Admin/Other includes spending that cannot be traced back to a contract that has at least one work element requiring location; contracts without any work elements at all; program level spending not mapped to a specific project; and BPA Overhead.
- 4) FYs revised as of March 2015.

| Direct Program Expenditures by Contractor Type, FY2014 |   |                      |                      |                      |                      |                      |                      |                      |                      |
|--|---|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Contractor Type  | Prime Contractor  | 2007                 | 2008                 | 2009                 | 2010                 | 2011                 | 2012                 | 2013 <sup>3</sup>    | 2014                 |
| <b>FEDERAL</b>   | NATIONAL MARINE FISHERIES (NOAA)  | \$5,179,793          | \$7,980,293          | \$8,559,831          | \$8,214,596          | \$10,011,126         | \$10,226,672         | \$7,294,105          | \$6,823,148          |
|  | BPA OVERHEAD ( & NON-CONTRACTED PROJECT COSTS)  | \$11,152,430         | \$7,752,161          | \$15,428,883         | \$18,886,192         | \$16,437,276         | \$15,281,324         | \$16,789,765         | \$18,227,811         |
|  | US FISH & WILDLIFE SERVICE (USFWS)  | \$2,860,400          | \$3,150,827          | \$3,079,231          | \$2,640,768          | \$2,842,702          | \$2,472,046          | \$2,845,424          | \$3,425,748          |
|  | US BUREAU OF RECLAMATION (BOR)  | \$279,721            | \$152,309            | \$202,092            | \$180,104            | \$160,153            | \$237,486            | \$181,862            | \$312,773            |
|  | US ARMY CORP OF ENGINEERS (COE)   | \$1,519,667          | \$20,924             | \$235,612            | \$205,064            | \$358,523            | \$358,214            | \$604,602            | \$171,313            |
|  | PACIFIC NW NATIONAL LABORATORY (PNNL/DEPT. OF ENERGY)   | \$1,165,186          | \$1,605,398          | \$1,769,676          | \$1,476,028          | \$790,143            | \$573,645            | \$381,427            | \$379,055            |
|  | US FOREST SERVICE (USFS)  | \$728,324            | \$1,410,740          | \$3,668,543          | \$1,649,120          | \$1,124,508          | \$851,567            | \$819,258            | \$813,992            |
|  | OTHER   | \$403,411            | \$454,711            | \$434,000            | \$444,850            | \$904,925            | \$503,000            | \$178,002            | \$50,000             |
|  | US GEOLOGICAL SURVEY (USGS)   | \$1,256,474          | \$1,722,389          | \$1,835,708          | \$1,760,653          | \$2,385,971          | \$5,135,564          | \$2,209,567          | \$1,704,163          |
| <b>FEDERAL TOTAL</b>                                   |   | <b>\$28,565,406</b>  | <b>\$24,259,752</b>  | <b>\$35,613,576</b>  | <b>\$35,457,375</b>  | <b>\$34,975,327</b>  | <b>\$33,136,516</b>  | <b>\$31,304,010</b>  | <b>\$31,908,003</b>  |
| <b>STATE</b>   | OREGON DEPARTMENT OF FISH & WILDLIFE  | \$11,114,130         | \$10,237,010         | \$10,170,389         | \$13,269,950         | \$10,238,326         | \$15,805,509         | \$13,248,075         | \$14,244,564         |
|  | OREGON WATERSHED ENHANCEMENT BOARD  |                      |                      |                      |                      |                      | \$59,516             | \$76,367             | \$112,611            |
|  | <b>OREGON Subtotal</b>  | <b>\$11,114,130</b>  | <b>\$10,237,010</b>  | <b>\$10,170,389</b>  | <b>\$13,269,950</b>  | <b>\$10,238,326</b>  | <b>\$15,865,025</b>  | <b>\$13,324,441</b>  | <b>\$14,357,177</b>  |
|  | IDAHO DEPARTMENT OF FISH & WILDLIFE   | \$7,139,047          | \$11,072,547         | \$8,429,207          | \$9,174,578          | \$10,847,630         | \$17,836,561         | \$18,281,036         | \$13,726,829         |
|  | IDAHO SOIL & WATER CONSERVATION COMMISSION  | \$91,298             | \$84,952             | \$91,275             | \$66,967             |                      |                      |                      |                      |
|  | IDAHO STATE OFFICE OF SPECIES CONSERVATION  |                      | \$199,247            | \$923,272            | \$1,397,773          | \$2,551,533          | \$2,487,433          | \$2,905,500          | \$1,368,456          |
|  | <b>IDAHO Subtotal</b>   | <b>\$7,230,445</b>   | <b>\$11,356,746</b>  | <b>\$9,443,754</b>   | <b>\$10,639,318</b>  | <b>\$13,399,163</b>  | <b>\$20,323,994</b>  | <b>\$21,186,535</b>  | <b>\$15,095,286</b>  |
|  | WASHINGTON DEPARTMENT OF FISH & WILDLIFE  | \$6,615,256          | \$5,912,604          | \$6,134,350          | \$7,712,743          | \$9,148,722          | \$11,855,753         | \$10,691,474         | \$12,239,873         |
|  | WASHINGTON DEPARTMENT OF ECOLOGY  | \$90,223             | \$211,309            | \$150,324            | \$181,562            | \$43,689             |                      |                      |                      |
|  | <b>WASHINGTON Subtotal</b>  | <b>\$6,705,479</b>   | <b>\$6,123,913</b>   | <b>\$6,284,673</b>   | <b>\$7,894,305</b>   | <b>\$9,192,411</b>   | <b>\$11,855,753</b>  | <b>\$10,691,474</b>  | <b>\$12,239,873</b>  |
|  | MONTANA FISH, WILDLIFE AND PARKS (MFWP)   | \$2,234,653          | \$2,762,721          | \$2,829,533          | \$2,913,118          | \$2,414,914          | \$2,382,531          | \$2,777,167          | \$3,063,650          |
|  | <b>MONTANA Subtotal</b>   | <b>\$2,234,653</b>   | <b>\$2,762,721</b>   | <b>\$2,829,533</b>   | <b>\$2,913,118</b>   | <b>\$2,414,914</b>   | <b>\$2,382,531</b>   | <b>\$2,777,167</b>   | <b>\$3,063,650</b>   |
| <b>STATE TOTAL</b>                                     |   | <b>\$27,284,708</b>  | <b>\$30,480,390</b>  | <b>\$28,728,349</b>  | <b>\$34,716,691</b>  | <b>\$35,244,814</b>  | <b>\$50,427,303</b>  | <b>\$47,979,618</b>  | <b>\$44,755,984</b>  |
| <b>TRIBE</b>   | BURNS PAIUTE TRIBE  | \$733,424            | \$687,603            | \$636,144            | \$716,460            | \$658,775            | \$831,697            | \$610,972            | \$761,026            |
|  | COEUR D'ALENE TRIBE OF IDAHO  | \$2,148,587          | \$2,537,247          | \$2,552,550          | \$2,444,908          | \$2,340,704          | \$2,668,551          | \$2,714,055          | \$2,406,884          |
|  | COLUMBIA RIVER INTERTRIBAL FISH COMMISSION  | \$1,005,653          | \$1,776,526          | \$4,329,842          | \$6,034,143          | \$7,640,904          | \$6,747,388          | \$7,939,587          | \$8,553,076          |
|  | COLVILLE CONFEDERATED TRIBES  | \$6,570,667          | \$4,519,814          | \$10,594,008         | \$10,278,445         | \$16,189,398         | \$21,993,516         | \$16,872,498         | \$15,116,467         |
|  | CONFEDERATED TRIBES OF GRAND RONDE  |                      |                      |                      | \$92,475             | \$124,703            | \$158,296            | \$110,571            | \$140,398            |
|  | CONFEDERATED TRIBES OF SILETZ INDIANS   |                      |                      |                      |                      |                      | \$48,134             | \$52,780             |                      |
|  | CONFEDERATED TRIBES OF WARM SPRINGS   | \$5,441,199          | \$3,373,196          | \$6,142,650          | \$6,078,270          | \$6,859,314          | \$7,223,659          | \$11,203,330         | \$5,691,055          |
|  | KOWILTZ INDIAN TRIBE  |                      |                      |                      |                      | \$34,325             | \$118,229            | \$364,937            | \$453,801            |
|  | KALISPEL TRIBE OF INDIANS   | \$1,752,834          | \$1,633,522          | \$1,790,852          | \$1,928,048          | \$2,066,331          | \$2,575,344          | \$2,709,448          | \$2,962,457          |
|  | KUCIENAI TRIBE  | \$5,491,017          | \$7,402,457          | \$6,541,035          | \$6,938,439          | \$8,537,716          | \$12,321,474         | \$13,094,788         | \$21,941,731         |
|  | NEZ PERCE TRIBE   | \$11,959,023         | \$11,532,934         | \$12,037,027         | \$12,664,313         | \$15,349,520         | \$16,073,605         | \$15,800,876         | \$15,294,865         |
|  | SALISH AND KOOTENAI TRIBES CONFEDERATED TRIBES  | \$59,627             | \$1,176,490          | \$483,878            | \$560,467            | \$430,107            | \$453,175            | \$755,899            | \$644,292            |
|  | SHOSHONE-BANNOCK TRIBES   | \$1,114,674          | \$1,749,602          | \$1,579,829          | \$2,436,482          | \$2,830,660          | \$2,857,601          | \$4,009,231          | \$3,551,518          |
|  | SHOSHONE-PAIUTE TRIBES  | \$742,121            | \$684,324            | \$790,837            | \$749,767            | \$841,382            | \$1,147,875          | \$694,692            | \$626,509            |
|  | SPOKANE TRIBE OF INDIANS  | \$2,420,625          | \$2,726,944          | \$2,744,981          | \$2,761,856          | \$2,803,647          | \$2,932,796          | \$2,709,870          | \$3,214,939          |
|  | UMATILLA CONFEDERATED TRIBES  | \$5,421,899          | \$6,138,492          | \$6,593,550          | \$8,881,642          | \$11,365,123         | \$9,951,477          | \$12,122,357         | \$12,088,602         |
|  | UPPER COLUMBIA UNITED TRIBES (UCUT)   |                      | \$162,707            | \$251,327            | \$516,803            | \$427,731            | \$403,540            | \$389,914            | \$448,433            |
|  | UPPER SNAKE RIVER TRIBES FOUNDATION   |                      | \$20,774             | \$145,822            | \$131,067            | \$148,610            | \$162,735            | \$206,529            | \$340,150            |
|  | YAKAMA CONFEDERATED TRIBES  | \$10,974,057         | \$10,793,537         | \$17,438,231         | \$24,319,364         | \$32,944,242         | \$25,813,516         | \$25,447,029         | \$23,930,424         |
| <b>TRIBE TOTAL</b>                                     |   | <b>\$55,815,607</b>  | <b>\$56,956,171</b>  | <b>\$74,652,563</b>  | <b>\$87,535,949</b>  | <b>\$111,613,192</b> | <b>\$116,414,475</b> | <b>\$119,824,856</b> | <b>\$118,539,409</b> |
| <b>INTERSTATE COMPACT</b>                              | PACIFIC STATES MARINE FISHERIES COMMISSION (PSMFC)  | \$13,690,125         | \$13,283,337         | \$14,452,104         | \$13,812,821         | \$13,908,430         | \$14,053,990         | \$12,711,728         | \$13,671,165         |
| <b>UNIVERSITY</b>                                      | UNIVERSITY  | \$4,252,999          | \$3,411,552          | \$4,355,304          | \$3,939,562          | \$3,642,199          | \$3,384,748          | \$2,800,350          | \$3,123,240          |
| <b>OTHER</b>   | PRIVATE/NON-PROFIT/OTHER  | \$5,329,690          | \$15,999,893         | \$16,476,097         | \$24,562,878         | \$51,870,432         | \$37,603,355         | \$36,314,947         | \$21,464,271         |
|  | LOCAL/SEMI GOVERNMENT   | \$4,257,817          | \$5,628,187          | \$8,355,797          | \$7,141,882          | \$5,933,917          | \$6,235,814          | \$7,854,727          | \$8,959,539          |
|  | COLUMBIA BASIN FISH & WILDLIFE AUTHORITY  | \$3,220,918          | \$2,875,372          | \$2,102,582          | \$2,162,548          | \$1,748,321          | \$1,611,166          | \$1,231,260          | \$544,684            |
|  | LAND ACQUISITIONS <sup>2</sup>  | \$16,605,994         | \$16,937,766         | \$26,741,905         | \$52,203,712         | \$36,048,400         | \$23,741,722         | \$20,104,220         |                      |
|  | UTILITY   | \$1,207,766          | \$897,497            | \$36,104             | \$44,731             | \$935,038            | \$1,802,447          | \$1,810,123          | \$1,862,133          |
|  | NATIONAL FISH & WILDLIFE FOUNDATION   | \$3,613,020          | \$3,964,862          | \$3,561,562          | \$3,471,611          | \$4,778,134          | \$4,833,194          | \$5,528,550          | \$4,191,459          |
|  | CHIEF JOSEPH HATCHERY COST SHARE (GRANT PUD)  |                      |                      |                      |                      | \$5,658,821          | \$5,141,637          |                      |                      |
| <b>OTHER TOTAL</b>                                     |   | <b>\$21,629,211</b>  | <b>\$45,971,805</b>  | <b>\$47,469,909</b>  | <b>\$64,125,555</b>  | <b>\$111,810,933</b> | <b>\$88,992,739</b>  | <b>\$76,481,330</b>  | <b>\$67,136,307</b>  |
| <b>GRAND TOTAL</b>                                     |   | <b>\$151,238,055</b> | <b>\$174,413,007</b> | <b>\$205,271,805</b> | <b>\$239,587,953</b> | <b>\$311,214,895</b> | <b>\$306,409,772</b> | <b>\$291,101,892</b> | <b>\$269,134,110</b> |
| <b>NOTES:</b>  |   |                      |                      |                      |                      |                      |                      |                      |                      |
| 1)   | Values above include accruals.  |                      |                      |                      |                      |                      |                      |                      |                      |
| 2)   | Starting in FY13, land acquisition values may include stewardship costs for long-term operations and maintenance (O&M). |                      |                      |                      |                      |                      |                      |                      |                      |
| 3)   | FY2013 - No changes as of February 27, 2015   |                      |                      |                      |                      |                      |                      |                      |                      |

| Direct Program Expenditures by Contractor Type, FY2014 |  |                     |
|--|--|---------------------|
| OTHER: Private and Non-Profit Contractors              |  |                     |
| Contractor Type  | Prime Contractor   | 2014 Expenditures   |
| <b>Non-Profit</b>                                      |  |                     |
|  | Cascade Pacific Resource Conservation and Development      | \$11,582            |
|  | Chelan-Douglas Land Trust                                  | \$5,814             |
|  | Columbia Land Trust  | \$1,252,789         |
|  | Columbia River Estuary Study Taskforce (CREST)             | \$2,434,358         |
|  | Deschutes River Conservancy (DRC)                          | \$19,075            |
|  | Grande Ronde Model Watershed Foundation                    | \$732,476           |
|  | Greenbelt Land Trust                                       | \$2,111             |
|  | History Ink  | \$5,250             |
|  | Lake Roosevelt Development Association                     | \$182,644           |
|  | Lake Roosevelt Forum                                       | \$29,711            |
|  | Lower Columbia Estuary Partnership                         | \$2,074,493         |
|  | McKenzie River Trust                                       | \$561,595           |
|  | Methow Salmon Recovery Foundation                          | \$1,161,612         |
|  | Montana Trout Unlimited                                    | \$400,000           |
|  | Nature Conservancy   | \$53,525            |
|  | Northwest Power and Conservation Council                   | \$794,881           |
|  | S Central Washington Resource Conservation and Development | \$828,989           |
|  | Tri-State Steelheaders                                     | \$12,502            |
|  | Trout Unlimited (TU)                                       | \$202,535           |
|  | Upper Columbia Salmon Recovery Board                       | \$302,464           |
| <b>Private</b>   |  |                     |
|  | Bioanalysts, Inc.  | \$1,053,038         |
|  | Biomark, Inc.  | \$157,436           |
|  | CH2M-Hill, Inc.  | \$46,566            |
|  | D J Warren and Associates, Inc.                            | \$36,544            |
|  | Eco Logical Research                                       | \$1,688,114         |
|  | Goodfellow Brothers, Inc.                                  | \$848,189           |
|  | HDR Engineering, Inc.                                      | \$2,078             |
|  | Historical Research Associates, Inc.                       | \$22,507            |
|  | Intermountain Communications                               | \$148,412           |
|  | Jones and Stokes Associates                                | \$235,000           |
|  | McMillen Engineering, LLC                                  | \$14,296            |
|  | Normandeau Associates, Inc                                 | -\$24,417           |
|  | PC Trask and Associates                                    | \$293,933           |
|  | PCL Construction Services Inc.                             | \$57,293            |
|  | Quantitative Consultants Inc                               | \$1,808,705         |
|  | Sapere Consulting Inc                                      | \$14,984            |
|  | Sitka Technology Group                                     | \$1,246,261         |
|  | South Fork Research, Inc.                                  | \$858,875           |
|  | SWCA Environmental Consultants                             | \$42,840            |
|  | Terraqua, Inc.   | \$1,492,454         |
|  | Tetra Tech, Inc.   | \$321,199           |
|  | Synergy Consulting Inc.                                    | \$31,556            |
| <b>Grand Total</b>                                     |  | <b>\$21,464,271</b> |

| Direct Program Expenditures for Land Purchases, FY2014   |                     |                     |                     |                     |                     |                     |                     |                     |
|--|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Project Proponent(s)   | 2007                | 2008                | 2009                | 2010                | 2011                | 2012                | 2013 <sup>3</sup>   | 2014                |
| City of Eugene   |                     |                     |                     |                     |                     | \$1,075,000         |                     |                     |
| City of Salem  |                     |                     |                     |                     |                     |                     | \$1,212,330         |                     |
| Coeur D'Alene Tribe, Idaho Department of Fish and Game (IDFG), Kalispel Tribe, Kootenai Tribe                              | \$7,302,119         | \$4,072,206         | \$3,326,183         | \$2,286,471         | \$1,750,665         | \$1,675,162         | \$348,570           |                     |
| Columbia Land Trust  |                     |                     |                     |                     |                     | \$5,306,043         | \$1,711,235         | \$693,096           |
| Colville Confederated Tribes   | \$1,467,578         | \$220,318           | \$1,144,839         | \$3,441,315         | \$720,811           | \$1,743,906         | \$1,611,630         | \$283,048           |
| Confederated Tribes of the Grande Ronde  |                     |                     |                     |                     |                     | \$54,305            | \$3,596,391         | \$12,500            |
| Ducks Unlimited  |                     |                     |                     |                     |                     |                     | \$520,081           |                     |
| Greenbelt Land Trust   |                     |                     |                     |                     |                     | \$772,500           | \$1,500,000         | \$244,082           |
| Idaho Department of Fish and Game (IDFG)   |                     | \$2,279,851         |                     | \$4,750,821         |                     | \$5,059,268         |                     | \$14,000,000        |
| Idaho Office of Species Conservation   |                     |                     |                     | \$3,426,523         |                     |                     |                     |                     |
| Kittitas Conservation Trust  |                     | \$130,000           |                     |                     |                     |                     |                     |                     |
| Lower Columbia River Estuary Partnership (LCREP)   |                     | \$67,130            | \$608,223           |                     |                     | \$946,739           |                     |                     |
| McKenzie River Trust   |                     |                     |                     |                     |                     | \$52,986            |                     | \$318,372           |
| Methow Salmon Recovery Foundation  |                     |                     | \$182,000           |                     |                     |                     |                     |                     |
| Montana Fish, Wildlife and Parks (MFWP)  |                     |                     |                     |                     | \$9,750,112         | \$1,349,403         | \$642,763           | \$1,610,425         |
| National Fish and Wildlife Foundation  |                     | \$415,000           | \$389,000           |                     |                     |                     |                     |                     |
| Nature Conservancy   | \$4,900,500         | \$1,001,875         | \$0                 | \$2,245,363         | \$20,851,010        |                     | \$3,412,000         |                     |
| Nez Perce Tribe  | \$13,186            | \$7,297             | \$7,751             | \$540,992           | \$5,788             | \$820               | \$5,000             | \$5,000             |
| Oregon Department Of Fish and Wildlife (ODFW)  | \$5,000,000         | \$3,904,011         | \$1,075,108         | \$1,330,361         | \$9,716,071         |                     | \$4,595,329         |                     |
| Oregon Watershed Enhancement Board   |                     |                     |                     | \$779,252           |                     |                     | \$600,000           |                     |
| S Central Washington Resource Conservation and Development   |                     |                     | \$14,500            | \$33,800            |                     |                     |                     |                     |
| Salish and Kootenai Confederated Tribes  |                     | \$4,217,842         | \$9,385,802         | \$1,394,127         | \$4,068,146         | \$6,370,226         | \$1,596,594         | \$2,196,197         |
| Shoshone-Bannock Tribes  |                     |                     | \$546,610           |                     | \$1,996,948         | \$3,666,163         |                     |                     |
| Shoshone-Paiute Tribes   |                     |                     |                     | \$2,259,937         |                     | \$3,156,008         |                     |                     |
| Spokane Tribe  | \$5,685,884         |                     |                     |                     |                     |                     |                     |                     |
| Umatilla Confederated Tribes (CTUIR)   |                     |                     |                     | \$2,114,907         |                     | \$15,382            |                     |                     |
| US Fish and Wildlife Service (USFWS)   |                     |                     |                     | \$1,005,967         |                     |                     |                     |                     |
| Washington Department of Fish and Wildlife (WDFW)  |                     | \$801,221           | \$752               | \$51                |                     | \$2,365,285         | \$572,469           |                     |
| Willamalane Parks and Recreation District  |                     |                     |                     |                     |                     |                     | \$500,509           | \$741,501           |
| Yakama Confederated Tribes   | \$2,216             | \$372,234           | \$262,257           | \$1,132,019         | \$3,344,161         | \$4,437,146         | \$333,123           |                     |
| Yamhill Soil and Water Conservation District   |                     |                     |                     |                     |                     |                     | \$983,699           |                     |
| <b>Grand Total</b>   | <b>\$24,391,484</b> | <b>\$17,488,983</b> | <b>\$16,943,025</b> | <b>\$26,741,905</b> | <b>\$52,203,712</b> | <b>\$38,046,341</b> | <b>\$23,741,722</b> | <b>\$20,104,220</b> |
| <b>Notes:</b>  |                     |                     |                     |                     |                     |                     |                     |                     |
| 1) Values above include bank fees, permits, etc.   |                     |                     |                     |                     |                     |                     |                     |                     |
| 2) Starting in FY13, land acquisition values may include stewardship costs for long-term operations and maintenance (O&M). |                     |                     |                     |                     |                     |                     |                     |                     |
| 3) FY2013 - No changes as of February 27, 2015   |                     |                     |                     |                     |                     |                     |                     |                     |

| <b>Direct Program Expenditures by State, FY2014</b>  |                            |                            |                            |               |
|--|----------------------------|----------------------------|----------------------------|---------------|
| <i>Compiles program spending by Work Element location</i>  |                            |                            |                            |               |
| <b>STATE</b>   | <b>FY2011 <sup>3</sup></b> | <b>FY2012 <sup>3</sup></b> | <b>FY2013 <sup>3</sup></b> | <b>FY2014</b> |
| Washington   | \$121,317,884              | \$115,404,913              | \$95,365,193               | \$85,433,677  |
| Idaho  | \$50,870,890               | \$73,383,217               | \$61,857,476               | \$78,709,188  |
| Oregon   | \$86,884,304               | \$85,320,690               | \$101,607,686              | \$61,616,255  |
| Orean  | \$3,598,371                | \$2,367,853                | \$589,410                  | \$989,794     |
| Montana  | \$17,984,028               | \$11,143,660               | \$7,215,356                | \$8,286,850   |
| British Columbia   | \$1,610,361                | \$1,983,288                | \$2,042,752                | \$1,838,018   |
| Nevada   | \$622,594                  | \$883,615                  | \$524,606                  | \$493,777     |
| Program Support/Admin/Overhead/Other <sup>2</sup>  | \$28,326,464               | \$15,922,536               | \$21,899,413               | \$31,766,819  |
|  | \$311,214,895              | \$305,409,772              | \$291,101,892              | \$269,134,110 |
| <b>Notes:</b>  |                            |                            |                            |               |
| 1) Starting in 2008, spending by state is tracked in Pices based on where the contractor explicitly identified work location.  |                            |                            |                            |               |
| 2) Program Support/Admin/Other includes spending that cannot be traced back to a contract that has at least one work element requiring location; contracts without any work elements at all; program level spending not mapped to a specific project or NPCC province; and BPA Overhead. |                            |                            |                            |               |
| 3) FYs revised as of March 2015.   |                            |                            |                            |               |

# Total Cost of BPA Fish & Wildlife Actions - 2014

| COST ELEMENT  | 2002          | 2003           | 2004          | 2005          | 2006          | 2007          | 2008           | 2009          | 2010           | 2011          | 2012          | 2013          | 2014           |
|---|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|----------------|---------------|---------------|---------------|----------------|
| <b>CAPITAL INVESTMENTS</b> <sup>1/</sup>                                |               |                |               |               |               |               |                |               |                |               |               |               |                |
| BPA FISH AND WILDLIFE   | 6.1           | 11.6           | 8.5           | 12.2          | 35.4          | 35.2          | 25.5           | 27.4          | 40.0           | 90.2          | 57.5          | 52.1          | 37.4           |
| BPA SOFTWARE DEVELOPMENT COSTS  | -             | -              | -             | -             | 0.9           | 1.0           | 1.3            | 0.6           | 1.2            | 0.8           | 0.4           | 0.0           | 0.1            |
| ASSOCIATED PROJECTS (FEDERAL HYDRO)                                     | 8.8           | 68.4           | 75.9          | 53.8          | 360.0         | 60.4          | 37.3           | 135.7         | 56.4           | 103.0         | 114.5         | 103.6         | 101.7          |
| <b>TOTAL CAPITAL INVESTMENTS</b>  | <b>14.9</b>   | <b>80.0</b>    | <b>84.4</b>   | <b>66.0</b>   | <b>396.3</b>  | <b>96.6</b>   | <b>64.2</b>    | <b>163.7</b>  | <b>97.6</b>    | <b>193.9</b>  | <b>172.3</b>  | <b>155.7</b>  | <b>139.2</b>   |
| <b>PROGRAM EXPENSES</b>   |               |                |               |               |               |               |                |               |                |               |               |               |                |
| BPA DIRECT FISH AND WILDLIFE PROGRAM                                    | 137.1         | 140.7          | 137.9         | 135.8         | 137.9         | 139.5         | 148.9          | 177.9         | 199.6          | 221.1         | 248.9         | 239.0         | 231.8          |
| FISH & WILDLIFE SOFTWARE EXPENSE COSTS                                  |               |                |               |               |               |               |                |               |                |               |               | 0.2           | 0.3            |
| SUPPLEMENTAL MITIGATION PROGRAM EXPENSES <sup>2/</sup>                  | 7.1           | 6.5            | 7.8           | 0.0           | 0.0           | 0.0           | 0.0            | 0.0           | 0.0            | 0.0           | 0.0           | 0.0           | 0.0            |
| REIMBURSABLE/DIRECT-FUNDED PROJECTS <sup>3/</sup>                       |               |                |               |               |               |               |                |               |                |               |               |               |                |
| O & M LOWER SNAKE RIVER HATCHERIES                                      | 14.9          | 15.1           | 17.3          | 17.2          | 20.1          | 19.3          | 19.4           | 20.8          | 23.3           | 24.5          | 22.0          | 28.7          | 31.0           |
| O & M CORPS OF ENGINEERS  | 28.2          | 30.3           | 32.3          | 32.5          | 31.8          | 32.9          | 34.4           | 34.3          | 36.5           | 40.3          | 41.1          | 39.2          | 47.8           |
| O & M BUREAU OF RECLAMATION   | 3.8           | 3.1            | 3.9           | 3.9           | 4.5           | 3.9           | 4.3            | 4.5           | 5.2            | 5.0           | 5.3           | 5.6           | 6.6            |
| NW POWER AND CONSERVATION COUNCIL ALLOCATED @ 50%                       | 4.0           | 4.0            | 3.7           | 4.3           | 4.3           | 4.2           | 4.1            | 4.7           | 4.7            | 4.5           | 4.6           | 5.0           | 4.9            |
| SUBTOTAL (REIMB/DIRECT-FUNDED)  | 50.9          | 52.6           | 57.2          | 57.9          | 60.7          | 60.3          | 62.2           | 64.3          | 69.7           | 74.3          | 73.0          | 76.5          | 90.3           |
| <b>TOTAL OPERATING EXPENSES</b>   | <b>195.1</b>  | <b>199.8</b>   | <b>202.9</b>  | <b>193.7</b>  | <b>198.6</b>  | <b>199.7</b>  | <b>211.1</b>   | <b>242.1</b>  | <b>269.3</b>   | <b>295.3</b>  | <b>321.9</b>  | <b>317.7</b>  | <b>322.40</b>  |
| <b>PROGRAM RELATED FIXED EXPENSES</b> <sup>4/</sup>                     |               |                |               |               |               |               |                |               |                |               |               |               |                |
| INTEREST EXPENSE  | 48.5          | 49.9           | 53.3          | 56.4          | 53.4          | 76.0          | 76.9           | 78.7          | 80.5           | 79.2          | 80.6          | 89.1          | 83.4           |
| AMORTIZATION EXPENSE  | 17.2          | 17.4           | 17.5          | 17.4          | 17.4          | 22.9          | 24.4           | 24.6          | 25.0           | 28.3          | 30.2          | 35.7          | 38.7           |
| DEPRECIATION EXPENSE  | 12.5          | 13.2           | 14.6          | 15.9          | 16.7          | 14.0          | 14.9           | 16.7          | 18.0           | 19.6          | 20.7          | 18.6          | 19.2           |
| <b>TOTAL FIXED EXPENSES</b>   | <b>78.2</b>   | <b>80.5</b>    | <b>85.4</b>   | <b>89.7</b>   | <b>87.5</b>   | <b>112.9</b>  | <b>116.2</b>   | <b>120.0</b>  | <b>123.5</b>   | <b>127.2</b>  | <b>131.5</b>  | <b>143.4</b>  | <b>141.3</b>   |
| <b>GRAND TOTAL PROGRAM EXPENSES</b>                                     | <b>273.3</b>  | <b>280.3</b>   | <b>288.3</b>  | <b>283.4</b>  | <b>286.1</b>  | <b>312.7</b>  | <b>327.3</b>   | <b>362.1</b>  | <b>392.8</b>   | <b>422.5</b>  | <b>453.4</b>  | <b>461.1</b>  | <b>463.7</b>   |
| <b>FORGONE REVENUES AND POWER PURCHASES</b>                             |               |                |               |               |               |               |                |               |                |               |               |               |                |
| FOREGONE REVENUES   | 12.6          | 79.2           | 21.7          | 182.1         | 397.4         | 282.6         | 273.5          | 142.8         | 99.4           | 156.7         | 152.2         | 135.5         | 122.7          |
| BPA POWER PURCH. FOR FISH ENHANCEMENT                                   | 147.8         | 171.1          | 191.0         | 110.8         | 168.2         | 120.7         | 274.9          | 240.3         | 310.1          | 70.7          | 38.5          | 85.8          | 196.2          |
| <b>TOTAL FOREGONE REVENUES AND POWER PURCHASES</b>                      | <b>160.4</b>  | <b>250.3</b>   | <b>212.7</b>  | <b>292.9</b>  | <b>565.6</b>  | <b>403.3</b>  | <b>548.5</b>   | <b>383.1</b>  | <b>409.5</b>   | <b>227.4</b>  | <b>190.7</b>  | <b>221.3</b>  | <b>318.9</b>   |
| <b>TOTAL PROGRAM EXPENSES, FOREGONE REVENUES, &amp; POWER PURCHASES</b> | <b>433.7</b>  | <b>530.6</b>   | <b>501.0</b>  | <b>576.3</b>  | <b>851.7</b>  | <b>716.0</b>  | <b>875.8</b>   | <b>745.3</b>  | <b>802.3</b>   | <b>649.9</b>  | <b>644.1</b>  | <b>682.4</b>  | <b>782.6</b>   |
| <b>CREDITS</b>  |               |                |               |               |               |               |                |               |                |               |               |               |                |
| 4(h)(10)(C)   | (66.4)        | (73.6)         | (77.0)        | (57.7)        | (76.4)        | (66.1)        | (100.5)        | (99.5)        | (122.8)        | (85.3)        | (77.0)        | (84.1)        | (103.9)        |
| FISH COST CONTINGENCY FUND  | -             | (78.7)         | -             | -             | -             | -             | -              | -             | -              | -             | -             | -             | -              |
| <b>TOTAL CREDITS</b>  | <b>(66.4)</b> | <b>(152.3)</b> | <b>(77.0)</b> | <b>(57.7)</b> | <b>(76.4)</b> | <b>(66.1)</b> | <b>(100.5)</b> | <b>(99.5)</b> | <b>(122.8)</b> | <b>(85.3)</b> | <b>(77.0)</b> | <b>(84.1)</b> | <b>(103.9)</b> |

This information has been made publicly available by BPA on 2/3/2015. The figures shown are consistent with audited actuals that contain Agency approved financial information, except for forgone revenues and power purchases which are estimates and do not contain Agency approved financial information.

1/ Capital Investments include both BPA's direct Fish and Wildlife Program capital investments, funded by BPA's Treasury borrowing, and "Associated Projects", which include capital investments at Corps of Engineers' and Bureau of Reclamation projects, funded by appropriations and repaid by BPA. The negative amount in FY 1997 reflects a decision to reverse "plant-in-service" investment that was never actually placed into service. The annual expenses associated with these investments are included in "Program-Related Fixed Expenses", below.

2/ Includes High Priority and Action Plan Expenses and other supplemental programs.

3/ "Reimbursable/Direct-Funded Projects" includes the portion of costs BPA pays to or on behalf of other entities that is determined to be for fish and wildlife purposes.

4/ "Fixed Expenses" include depreciation, amortization and interest on investments on the Corps of Engineers' projects, and amortization and interest on the investments associated with BPA's direct Fish and Wildlife Program.

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**From:** Harrison, John <jharrison@nwcouncil.org>  
**Sent:** Thursday, April 07, 2016 12:07 PM  
**To:** Grant,Sharon D (BPA) - EWU-4  
**Cc:** Lennox,Alexander (BPA) - FS-2  
**Subject:** RE: 4.h.10.c credit question

OK, got it, Sharon. I don't think I ever will fully understand the complexities of this annual report!  
Thank you for being so patient with me!

John

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**From:** Grant,Sharon D (BPA) - EWU-4 [<mailto:sdgrant@bpa.gov>]  
**Sent:** Thursday, April 07, 2016 12:02 PM  
**To:** Harrison, John <jharrison@nwcouncil.org>  
**Cc:** Lennox,Alexander (BPA) - FS-2 <[alennox@bpa.gov](mailto:alennox@bpa.gov)>  
**Subject:** RE: 4.h.10.c credit question

Hi John,

Actually, the \$82.2 million does not include Capital Expenditures for RM&E. This is, of course, determined at the Project level under Emphasis. The capital projects do not fall under this category.

I'm not sure which pie chart you are referring to, so if you don't have it figured out (saw your email), please give me a call.

Sharon Grant  
Bonneville Power Administration  
503-230-5215

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**From:** Harrison, John [<mailto:jharrison@nwcouncil.org>]  
**Sent:** Thursday, April 07, 2016 11:51 AM  
**To:** Lennox,Alexander (BPA) - FS-2  
**Cc:** Grant,Sharon D (BPA) - EWU-4  
**Subject:** RE: 4.h.10.c credit question

Oh, sorry, but I'm still confused, I just realized. The huge table of costs shows \$258.2 million for the direct program and \$21.4 million for fish and wildlife capital in FY 2015. The total is \$279.6 million. So for Figure 7, direct program expenditures for RM&E, shouldn't the title also say the \$82.2 million total includes capital obligations (non-specific, as it would not be the full \$22.6 million as pie chart shows a subset of the total costs)?

John

---

**From:** Lennox,Alexander (BPA) - FS-2 [<mailto:alennox@bpa.gov>]  
**Sent:** Thursday, April 07, 2016 11:31 AM

**To:** Harrison, John <[jharrison@nwcouncil.org](mailto:jharrison@nwcouncil.org)>  
**Subject:** RE: 4.h.10.c credit question

It depends on which set of data you're looking at. The pie chart ignores capital spending. The huge table of costs of F&W actions includes capital spending as a cost element but it may not appear as part of the total cost (depending on how the costs are sliced).

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**From:** Harrison, John [<mailto:jharrison@nwcouncil.org>]  
**Sent:** Thursday, April 07, 2016 11:03 AM  
**To:** Lennox,Alexander (BPA) - FS-2  
**Subject:** RE: 4.h.10.c credit question

OK, good. Thanks.

Also, and this might a question for Sharon Grant, when you report total costs by, say category, should I say the total includes or does not include capital obligations? You break them out in the big spreadsheet. But I'm sorry – I simply forget – whether the cost breakouts you provide reflect capital or not. I'm thinking not ...

Thanks,

John

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**From:** Lennox,Alexander (BPA) - FS-2 [<mailto:alennox@bpa.gov>]  
**Sent:** Thursday, April 07, 2016 10:48 AM  
**To:** Harrison, John <[jharrison@nwcouncil.org](mailto:jharrison@nwcouncil.org)>  
**Subject:** RE: 4.h.10.c credit question

No. The credit is tracked separately. It is treated as a revenue so it doesn't show up in expenses.

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**From:** Harrison, John [<mailto:jharrison@nwcouncil.org>]  
**Sent:** Thursday, April 07, 2016 10:46 AM  
**To:** Lennox,Alexander (BPA) - FS-2  
**Subject:** 4.h.10.c credit question

Alex, in the expenditure information you sent me, does the \$258 million associated with the direct fish and wildlife program account for the \$77.7 million credit in FY 2015?

Thanks,

John

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John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

**From:** Grant, Sharon D (BPA) - EWU-4  
**Sent:** Thu May 03 11:07:06 2018  
**To:** John Harrison  
**Subject:** RE: A couple of requests  
**Importance:** Normal

You are welcome 😊

**From:** John Harrison [mailto:jharrison@nwcouncil.org]  
**Sent:** Thursday, May 03, 2018 11:04 AM  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Cc:** Stacy Horton; Eric Schrepel  
**Subject:** [EXTERNAL] RE: A couple of requests

Thank you so much, Sharon!  
I really appreciate how good you are, and your quick responses to my questions.  
I'm copying Eric, who puts the report together each year, and Stacy, who asked the questions.  
Again, thanks very much.

John

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John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

**From:** Grant, Sharon D (BPA) - EWU-4 [mailto:sdgrant@bpa.gov]  
**Sent:** Thursday, May 03, 2018 10:56 AM  
**To:** John Harrison <jharrison@nwcouncil.org>  
**Cc:** Read, Christine L (BPA) - EWB-4 <clread@bpa.gov>  
**Subject:** RE: A couple of requests

John,

I pulled up Table 3 and add 2006 through 2008. I'll let you in on a secret—I generally leave the previous years' information on the table, but hide the columns, so you can always check there when you want to see more. In this case, I only had back to 2008, so I went back and ran the report information for 2006 and 2007 and placed it on the table. I do not think going farther back would be that meaningful, as things were getting set up in Pisces around that time among other reasons (the apples and oranges scenario).

I will add to my notes for next year the request for a breakdown of the Programmatic costs for the RM & E report. In the meanwhile I added the list to the current RME report, and have included it here

(second tab), in case you are interested.

Let me know if that's what you needed.

Sharon Grant  
Bonneville Power Administration

**From:** John Harrison [mailto:jharrison@nwcouncil.org]  
**Sent:** Wednesday, May 02, 2018 4:10 PM  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Subject:** [EXTERNAL] A couple of requests

Sharon:

Thanks again for the answers to our questions. As you might expect, these generated a couple of requests from Member Karier:

- You volunteered to send some more years' of BiOp costs (Figure and Table 3, "Costs of FCRPS BiOp Projects"). How about three more years for the Figure so we have basically 11 years (looks like 10), 2007 through 2017 (the figure and table currently start with 2010). And then as many years as you have available and are comfortable sharing for the table? I don't know how far back your reporting of these costs goes, and I know that it might be apples and oranges including some costs from years ago in the same table with current costs. So please resend the spreadsheet with as many years as you are comfortable sharing, and we will take care of the figure (10/11 years) and table (all years).
- Thanks for the definition of 'Programmatic' for Figure 7, Costs of Research, Monitoring and Evaluation. Because Programmatic is the largest piece of the pie (\$32 million, 39 percent), for *next year's* report would it be possible to list the projects that go into that calculation? I'll make a note or keep this email to remind myself to ask you then.

John

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

**From:** Grant, Sharon D (BPA) - EWU-4  
**Sent:** Tue May 24 15:32:20 2016  
**To:** Harrison, John  
**Subject:** RE: AP total  
**Importance:** Normal  
**Attachments:** image001.png; Direct Program Expenditures Artificial Production by emphasis.xlsx

John,

It wasn't a problem; already had the data identified. Take a look and see if this is what you wanted.

Sharon Grant  
503-230-5215

**From:** Harrison, John [mailto:jharrison@nwcouncil.org]  
**Sent:** Tuesday, May 24, 2016 3:19 PM  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Subject:** RE: AP total

Well, yes, I too, was told the members were more interested in RM&E and supplementation costs than in the way we used to report it with the four elements. But ...  
Could you fill in those four lines through FY 15 and send it to me when you have a chance – if it does not involve a lot of digging? If my colleague Lynn asked, it might be that one of the members will ask, too. Would be nice to have it just in case.  
Thank you very much.

John

**From:** Grant, Sharon D (BPA) - EWU-4 [mailto:sdgrant@bpa.gov]  
**Sent:** Tuesday, May 24, 2016 3:11 PM  
**To:** Harrison, John <jharrison@nwcouncil.org>  
**Subject:** RE: AP total

Hi John,

That was one of the reports I was told no longer needed to be included. It wouldn't take any time at all to produce it as I already have the data, would just need to fill in the four lines to the report for FY14.

Sharon

**From:** Harrison, John [mailto:jharrison@nwcouncil.org]  
**Sent:** Tuesday, May 24, 2016 3:04 PM  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Cc:** Palensky, Lynn  
**Subject:** AP total

Sharon:

Lynn Palensky on our fish and wildlife staff asked me how much Bonneville spent on artificial production in 2015, and I realized I'm not sure of the answer.

For this year's report we include the costs of supplementation and RM&E for artificial production (total: \$56.2 million) but in past reports we also included harvest augmentation and coordination in the total, as we did for the 2013 report on 2012, below.

Are those elements captured in the 2016 numbers?

Thanks,  
John

| <b>Category</b>               | <b>2007</b>         | <b>2008</b>         | <b>2009</b>         | <b>2010</b>         | <b>2011</b>        |
|-------------------------------|---------------------|---------------------|---------------------|---------------------|--------------------|
| Coordination (local/regional) | \$641,817           | \$764,148           | \$607,260           | \$640,554           | \$684,89           |
| Harvest Augmentation          | \$3,054,888         | \$3,256,692         | \$3,417,255         | \$3,241,566         | \$3,599,30         |
| RM and E                      | \$19,614,680        | \$17,739,370        | \$17,335,478        | \$22,318,040        | \$22,583,16        |
| Supplementation               | \$22,334,339        | \$26,177,769        | \$28,175,648        | \$45,271,831        | \$61,846,88        |
| <b>Total</b>                  | <b>\$45,645,724</b> | <b>\$47,937,980</b> | <b>\$48,924,480</b> | <b>\$71,471,991</b> | <b>\$88,714,24</b> |

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John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

| Direct Program Expenditures for Artificial Production, FY2015   |                     |                     |                     |                     |                     |                     |                     |                     |                     |
|---|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Category  | 2007                | 2008                | 2009                | 2010                | 2011                | 2012                | 2013                | 2014 <sup>2</sup>   | 2015                |
| Coordination (local/regional)   | \$641,817           | \$764,148           | -\$3,902            | \$640,554           | \$684,891           | \$664,088           | \$785,309           | \$633,509           | \$618,853           |
| Harvest Augmentation  | \$3,054,888         | \$3,256,692         | \$3,417,255         | \$3,241,566         | \$3,599,302         | \$4,429,624         | \$4,077,995         | \$4,062,872         | \$4,248,774         |
| RM and E  | \$19,614,680        | \$17,739,370        | \$17,335,478        | \$22,318,040        | \$22,583,163        | \$25,176,585        | \$23,588,530        | \$24,046,106        | \$24,079,654        |
| Supplementation   | \$22,334,339        | \$26,177,769        | \$26,175,648        | \$45,271,831        | \$61,846,889        | \$53,165,835        | \$50,024,766        | \$45,146,279        | \$32,202,008        |
| <b>Total</b>  | <b>\$45,645,724</b> | <b>\$47,937,980</b> | <b>\$48,924,480</b> | <b>\$71,471,991</b> | <b>\$88,714,245</b> | <b>\$83,436,132</b> | <b>\$78,476,600</b> | <b>\$73,888,765</b> | <b>\$61,149,270</b> |
| <b>Notes:</b>   |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| 1) Estimated spending is based at the project level. Therefore if a project is assigned an emphasis of Habitat, but also does RME, all expenditures for the project are included under Habitat. |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| 2) FY2014 - no changes as of 3/0/2016   |                     |                     |                     |                     |                     |                     |                     |                     |                     |

**From:** Grant, Sharon D (BPA) - EWU-4  
**Sent:** Tue Mar 29 09:07:11 2016  
**To:** Harrison, John  
**Subject:** RE: Annual report on Bonneville's fish and wildlife costs  
**Importance:** Normal

**Attachments:** DRAFT-Direct Expenditure of Land Acquisitions.xlsx; DRAFT-Direct expenditures by State.xlsx; DRAFT-Direct Program Expenditure by Contractor Type.xlsx; DRAFT-Direct Program Expenditures by Category.xlsx; DRAFT-Direct Program Expenditures by Fund.xlsx; DRAFT-Direct Program Expenditures by Province.xlsx; DRAFT-Direct Program Expenditures by Species-Exp&Cap.xlsx; DRAFT-Direct Program Expenditures for RME.xlsx; DRAFT-Direct Program Expenditures of FCRPS BiOp projects.xlsx; DRAFT-Direct Program Spending On ESA Listed Focal Species.xlsx; FY14REV\_Direct Program Spending On ESA Listed Focal Species.xlsx

John,

I think I can do that, knowing that you may need to make changes. The reviewers may want to make modifications if I have mischaracterized certain data. (b)(6)

(b)(6)

Meanwhile you can let me know if I have forgotten or misinterpreted any of your requests. One item I did not see discussed in the email chain was whether we were going to “modify” last year (FY14) with up-to-date financial information, as we did last year. I assumed the answer was “yes” so I did that. If the answer was “no” I will need to restore the FY14 figures to last year’s results.

Sharon Grant

**From:** Harrison, John [mailto:jharrison@nwcouncil.org]  
**Sent:** Tuesday, March 29, 2016 8:32 AM  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Subject:** RE: Annual report on Bonneville's fish and wildlife costs

Sharon:

It sure would be nice to have them before next week. I certainly understand reviews by the powers that be ... but ... I would love to have the files as tentative or draft so I could get Eric going completing the draft document, and then you could tell me if there are any changes when the Important People are finished.

John

**From:** Grant, Sharon D (BPA) - EWU-4 [mailto:sdgrant@bpa.gov]  
**Sent:** Tuesday, March 29, 2016 7:51 AM  
**To:** Harrison, John <jharrison@nwcouncil.org>  
**Subject:** RE: Annual report on Bonneville's fish and wildlife costs

Hi John,

I have actually completed them (about a week ago) but they are under review by the usual suspects 😊.

I asked Bill Maslen's secretary to help try and get it back to me by the end of the week, or first thing next week. Will that work?

I could give them to you tentatively so you could at least check that everything you need is included since the list was modified. What do you think?

Sharon Grant  
Bonneville Power Administration  
503-230-5215

**From:** Harrison, John [mailto:jharrison@nwcouncil.org]  
**Sent:** Tuesday, March 29, 2016 7:43 AM  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Subject:** RE: Annual report on Bonneville's fish and wildlife costs

Hi, Sharon: Mark Walker asked me yesterday whether I would have a draft of the spending report for our PA Committee to review at its April meeting. Any idea when you will be able to get the spreadsheets to me?

Thank you,  
John

John Harrison  
Northwest Power and Conservation Council  
503-222-5161  
www.nwcouncil.org

----- Original message -----

From: "Grant, Sharon D (BPA) - EWU-4" <sdgrant@bpa.gov>  
Date: 3/15/2016 1:58 PM (GMT-08:00)  
To: "Harrison, John" <jharrison@nwcouncil.org>  
Cc: "Zimmer, Pat R (BPA) - DIR-7" <przimmer@bpa.gov>  
Subject: RE: Annual report on Bonneville's fish and wildlife costs

Does that mean you are deleting 3D?

**From:** Harrison, John [mailto:jharrison@nwcouncil.org]  
**Sent:** Tuesday, March 15, 2016 1:56 PM  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Cc:** Zimmer, Pat R (BPA) - DIR-7  
**Subject:** RE: Annual report on Bonneville's fish and wildlife costs

Hi, Sharon:

Yes, I know it is confusing, and I apologize. Attached is the note I wrote to our PA Committee, and I am copying Pat on this reply just to be sure we all are on the same page. In the attached memo, I write:

I propose to delete Figure 3A, revise Figure 3B, and replace Figure 3C with another. The reason is that they are based on the “Purpose and Emphasis” project classification, which Bonneville says does not reflect the program categories clearly or accurately. So here’s what I propose:

- Delete 3A, as the categories are confusing and, according to Bonneville, not accurate because of the purpose and emphasis categorization.
- 3B provides much of the same information as 3A. The Purpose and Emphasis system lumps Bonneville overhead in the Coordination category; Bonneville recommends breaking it out here for accuracy/clarity. So we would keep this figure but break out coordination into two slices – regional coordination and Bonneville overhead.
- 3C would be replaced with the breakout of RM&E shown in the current 3A and would include RM &E costs for artificial production, habitat, harvest, hydro, predation, and programmatic costs.

Pat, is this right?

John

**From:** Grant, Sharon D (BPA) - EWU-4 [mailto:sdgrant@bpa.gov]  
**Sent:** Tuesday, March 15, 2016 1:26 PM  
**To:** Harrison, John <jharrison@nwcouncil.org>  
**Subject:** FW: Annual report on Bonneville's fish and wildlife costs

Hi John,

I have a question regarding one of the “changes” below, and I thought I would get the lowdown directly from you.

Last year, Table 3D: Direct Program Support shows Program Support by Area, then Emphasis Type, then each divided by BPA and Non-BPA Program Support.

Below you do not reference this table at all, but 3B, the Costs by Category, requires a “new” breakout of coordination costs between Regional (and I assume Local) vs. BPA Overhead.

Since the figures under 3D and 3B would be quite different, I wanted to make sure you were dropping 3D and expanding 3B only.

Sharon Grant  
Bonneville Power Administration  
503-230-5215

**From:** Mercier, Bryan K (BPA) - EWB-4  
**Sent:** Wednesday, March 02, 2016 10:11 AM  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Cc:** Zimmer, Pat R (BPA) - DIR-7  
**Subject:** FW: Annual report on Bonneville's fish and wildlife costs

FYI.

Bryan K Mercier  
503.230.3991

**From:** Harrison, John [mailto:jharrison@nwcouncil.org]  
**Sent:** Wednesday, March 02, 2016 9:42 AM  
**To:** Zimmer, Pat R (BPA) - DIR-7; Mercier, Bryan K (BPA) - EWB-4; Horton, Stacy  
**Subject:** FW: Annual report on Bonneville's fish and wildlife costs

All:  
Typo below, sorry. PBL costs are/were in Figure 1B, not 2B. We decided to keep 2B (costs of FCRPS BiOp projects – third bullet in the first group below).  
John

**From:** Harrison, John  
**Sent:** Tuesday, March 01, 2016 2:53 PM  
**To:** Mercier, Bryan K (BPA) - KEWR-4 <>  
**Cc:** 'Zimmer, Pat R (BPA) - DIR-7' <>; Horton, Stacy <>  
**Subject:** Annual report on Bonneville's fish and wildlife costs

Hi, Bryan:  
Pat Zimmer and I spoke recently about changes to the annual report to the Governors on Bonneville's fish and wildlife costs. I then discussed those proposals with Tom Karier and Stacy Horton and we ended up accepting nearly all of the proposals. So now I'm ready to proceed. Here's the list of spreadsheets I would like for the next report:

- Total costs, 1980-2015 (I have a Feb. 1 version of this table so I only need it again if there is a new version)
- Costs by types of species, FY 2015
- Costs of FCRPS BiOp projects, 2008-2015
- Costs associated with ESA-listed fish, FY 2015
- Direct program costs by fund, FY 2015
- Direct program costs by category, FY 2015, with a separate breakout of coordination costs in two categories: Regional coordination and Bonneville overhead
- RM&E costs for artificial production, habitat, harvest, hydro, predation, and programmatic costs, FY 2015
- Costs by province, FY 2015
- Costs by work element location, FY 2015

- Costs by contractor types, FY 2015
- Costs of land purchases for fish and wildlife habitat, FY 20xx-2015 (we will try to get more than one year into the figure)

We agreed to drop:

- Bonneville's PBL costs (2B)
- Costs by purpose and emphasis (3A)
- The pie chart of total costs over time (7A). Instead, we will use just the ribbon figure (last year's 7B) and add the totals to the legend of the figure
- Costs of artificial production (3C)

Stacy and Pat, if I missed something, please let me (and Bryan) know. I plan to discuss this with the Public Affairs Committee next Tuesday. I'd like to complete the draft report for the committee to review at the April meeting, then take it to the full Council at the May meeting for release for public comment, then issue the final version in June.

Thanks very much.

John

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John Harrison  
Information Officer  
Northwest Power and Conservation Council  
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(b)(6) (cell)

| Direct Program Expenditures for Land Purchases, FY2015   |                     |                     |                     |                     |                     |                     |                     |                     |                     |
|--|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Project Proponent(s)   | 2007                | 2008                | 2009                | 2010                | 2011                | 2012                | 2013                | 2014 <sup>3</sup>   | 2015                |
| Ble Mountain Land Trust  |                     |                     |                     |                     |                     |                     |                     |                     | \$562,383           |
| City of Eugene   |                     |                     |                     |                     |                     | \$1,075,000         |                     |                     |                     |
| City of Salem  |                     |                     |                     |                     |                     |                     | \$1,212,330         |                     |                     |
| Coeur D'Alene Tribe, Idaho Department of Fish and Game (IDFG), Kallspel Tribe, Kootenai Tribe                              | \$7,302,119         | \$4,072,206         | \$3,326,183         | \$2,286,471         | \$1,750,665         | \$1,675,162         | \$348,570           |                     |                     |
| Columbia Land Trust  |                     |                     |                     |                     |                     | \$5,306,043         | \$1,711,235         | \$693,096           | \$2,051,603         |
| Colville Confederated Tribes   | \$1,487,578         | \$220,318           | \$1,144,839         | \$3,441,315         | \$720,811           | \$1,743,906         | \$1,611,630         | \$283,048           |                     |
| Confederated Tribes of the Grande Ronde  |                     |                     |                     |                     |                     | \$54,305            | \$3,596,391         | \$12,500            | \$1,741,197         |
| Confederated Tribes of the Warm Springs  |                     |                     |                     |                     |                     |                     |                     |                     | \$3,632,833         |
| Ducks Unlimited  |                     |                     |                     |                     |                     |                     | \$520,081           |                     |                     |
| Friends of Buford Park   |                     |                     |                     |                     |                     |                     |                     |                     | \$423,162           |
| Greenbell Land Trust   |                     |                     |                     |                     |                     | \$772,500           | \$1,500,000         | \$244,082           | \$947,500           |
| Idaho Department of Fish and Game (IDFG)   |                     | \$2,279,851         |                     | \$4,750,821         |                     | \$5,059,268         |                     | \$14,000,000        |                     |
| Idaho Office of Species Conservation   |                     |                     |                     | \$3,426,523         |                     |                     |                     |                     | \$7,980,000         |
| Kittitas Conservation Trust  |                     | \$130,000           |                     |                     |                     |                     |                     |                     |                     |
| Lower Columbia River Estuary Partnership (LCREP)   |                     | \$67,130            | \$608,223           |                     |                     | \$946,739           |                     |                     |                     |
| McKenzie River Trust   |                     |                     |                     |                     |                     | \$52,986            |                     | \$318,372           |                     |
| Methow Salmon Recovery Foundation  |                     |                     | \$182,000           |                     |                     |                     |                     |                     |                     |
| Montana Fish, Wildlife and Parks (MFWP)  |                     |                     |                     |                     | \$9,750,112         | \$1,349,403         | \$642,763           | \$1,610,425         | \$154,274           |
| National Fish and Wildlife Foundation  |                     | \$415,000           | \$389,000           |                     |                     |                     |                     |                     |                     |
| Nature Conservancy   | \$4,900,500         | \$1,001,875         | \$0                 | \$2,245,363         | \$20,851,010        |                     | \$3,412,000         |                     | \$2,268,978         |
| Nez Perce Tribe  | \$13,186            | \$7,297             | \$7,751             | \$540,992           | \$5,788             | \$820               | \$5,000             | \$5,000             | \$5,729             |
| Oregon Department Of Fish and Wildlife (ODFW)  | \$5,000,000         | \$3,904,011         | \$1,075,108         | \$1,330,361         | \$9,716,071         |                     | \$4,595,329         |                     | \$1,082,452         |
| Oregon Watershed Enhancement Board   |                     |                     |                     | \$779,252           |                     |                     | \$600,000           |                     |                     |
| S Central Washington Resource Conservation and Development   |                     |                     | \$14,500            | \$33,800            |                     |                     |                     |                     |                     |
| Salish and Kootenai Confederated Tribes  |                     | \$4,217,842         | \$9,385,802         | \$1,394,127         | \$4,068,146         | \$6,370,226         | \$1,596,594         | \$2,196,197         | \$490,965           |
| Shoshone-Bannock Tribes  |                     |                     | \$546,610           |                     | \$1,996,948         | \$3,666,163         |                     |                     |                     |
| Shoshone-Paiute Tribes   |                     |                     |                     | \$2,259,937         |                     | \$3,156,008         |                     |                     |                     |
| Spokane Tribe  | \$5,685,884         |                     |                     |                     |                     |                     |                     |                     |                     |
| Umatilla Confederated Tribes (CTUIR)   |                     |                     |                     | \$2,114,907         |                     | \$15,382            |                     |                     | \$771,010           |
| US Fish and Wildlife Service (USFWS)   |                     |                     |                     | \$1,005,967         |                     |                     |                     |                     |                     |
| Washington Department of Fish and Wildlife (WDFW)  |                     | \$801,221           | \$752               | \$51                |                     | \$2,365,285         | \$572,469           |                     |                     |
| Willamalane Parks and Recreation District  |                     |                     |                     |                     |                     |                     | \$500,509           | \$741,501           |                     |
| Yakama Confederated Tribes   | \$2,216             | \$372,234           | \$262,257           | \$1,132,019         | \$3,344,161         | \$4,437,146         | \$333,123           |                     |                     |
| Yamhill Soil and Water Conservation District   |                     |                     |                     |                     |                     |                     | \$983,699           |                     |                     |
| <b>Grand Total</b>   | <b>\$24,391,484</b> | <b>\$17,488,983</b> | <b>\$16,943,025</b> | <b>\$26,741,905</b> | <b>\$52,203,712</b> | <b>\$38,046,341</b> | <b>\$23,741,722</b> | <b>\$20,104,220</b> | <b>\$22,112,085</b> |
| <b>Notes:</b>  |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| 1) Values above include bank fees, permits, etc.   |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| 2) Starting in FY13, land acquisition values may include stewardship costs for long-term operations and maintenance (O&M). |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| 3) FY2014 - No changes as of March 09, 2016  |                     |                     |                     |                     |                     |                     |                     |                     |                     |

## Direct Program Expenditures by State, FY2015

Compiles program spending by Work Element location

| STATE   | 2011                 | 2012                 | 2013                 | 2014 <sup>3</sup>    | 2015                 |
|---|----------------------|----------------------|----------------------|----------------------|----------------------|
| Washington  | \$121,317,884        | \$115,404,913        | \$95,365,193         | \$86,071,758         | \$90,301,871         |
| Idaho   | \$50,870,890         | \$73,383,217         | \$61,857,476         | \$78,704,753         | \$68,227,915         |
| Oregon  | \$86,884,304         | \$85,320,690         | \$101,607,686        | \$61,266,093         | \$97,966,204         |
| Ocean   | \$3,598,371          | \$2,367,853          | \$589,410            | \$989,723            | \$938,155            |
| Montana   | \$17,984,028         | \$11,143,660         | \$7,215,356          | \$8,285,323          | \$5,345,146          |
| British Columbia                                  | \$1,610,361          | \$1,983,288          | \$2,042,752          | \$1,859,249          | \$1,975,390          |
| Nevada  | \$622,594            | \$883,615            | \$524,606            | \$494,000            | \$763,225            |
| Program Support/Admin/Overhead/Other <sup>2</sup> | \$28,326,464         | \$15,922,536         | \$21,899,413         | \$31,463,211         | \$14,032,643         |
|   | <u>\$311,214,895</u> | <u>\$306,409,772</u> | <u>\$291,101,892</u> | <u>\$269,134,110</u> | <u>\$279,550,549</u> |

### Notes:

1) Starting in 2008, spending by state is tracked in Pisces based on where the contractor explicitly identified work location.

2) Program Support/Admin/Other includes spending that cannot be traced back to a contract that has at least one work element requiring location; contracts without any work elements; program level spending not mapped to a specific project or NPCC province; and BPA Overhead.

3) FY2014 revised as of March 17, 2016.

| Direct Program Expenditures by Contractor Type, FY2015 |   |                      |                      |                      |                      |                      |                      |                      |                      |                      |
|--|---|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Contractor Type  |   | 2007                 | 2008                 | 2009                 | 2010                 | 2011                 | 2012                 | 2013                 | 2014 <sup>1</sup>    | 2015                 |
| <b>FEDERAL</b>   | NATIONAL MARINE FISHERIES (NOAA)  | \$9,179,793          | \$7,980,293          | \$8,959,831          | \$6,214,596          | \$10,011,124         | \$10,226,672         | \$7,294,105          | \$4,823,153          | \$7,849,433          |
|  | BPA OVERHEAD (BPA NON-CONTRACTED PROJECT COSTS)   | \$11,152,430         | \$7,742,161          | \$15,428,883         | \$16,866,192         | \$16,437,276         | \$15,281,324         | \$16,789,765         | \$18,302,894         | \$16,662,085         |
|  | US FISH & WILDLIFE SERVICE (USFWS)  | \$2,880,400          | \$3,150,827          | \$3,079,231          | \$2,640,768          | \$2,842,702          | \$2,472,046          | \$2,845,424          | \$3,425,748          | \$2,718,120          |
|  | US BUREAU OF RECLAMATION (BOR)  | \$279,721            | \$152,309            | \$202,092            | \$160,104            | \$160,153            | \$237,486            | \$181,862            | \$312,773            | \$714,663            |
|  | US ARMY CORP OF ENGINEERS (COE)   | \$1,519,667          | \$20,924             | \$250,612            | \$205,064            | \$308,323            | \$308,214            | \$604,602            | \$1,71,315           | \$309,499            |
|  | PACIFIC NW NATIONAL LABORATORY/DEPT. OF ENERGY  | \$1,165,186          | \$1,605,398          | \$1,769,676          | \$1,476,028          | \$750,143            | \$573,645            | \$381,427            | \$379,050            | \$625,656            |
|  | US FOREST SERVICE (USFS)  | \$728,324            | \$1,410,740          | \$3,668,543          | \$1,649,120          | \$1,124,508          | \$651,567            | \$819,258            | \$813,992            | \$309,565            |
|  | CIHRM   | \$403,411            | \$454,711            | \$434,000            | \$444,850            | \$904,925            |                      | \$178,002            | \$50,000             | \$50,000             |
|  | US GEOLOGICAL SURVEY (USGS)   | \$1,256,474          | \$1,722,389          | \$1,835,708          | \$1,760,653          | \$2,385,971          | \$3,135,564          | \$2,209,567          | \$1,704,163          | \$1,705,066          |
| <b>FEDERAL TOTAL</b>                                   |   | <b>\$28,646,404</b>  | <b>\$24,269,762</b>  | <b>\$36,613,674</b>  | <b>\$36,467,375</b>  | <b>\$34,975,327</b>  | <b>\$33,136,616</b>  | <b>\$31,304,010</b>  | <b>\$31,983,084</b>  | <b>\$32,944,084</b>  |
| <b>STATE</b>   | OREGON DEPARTMENT OF FISH & WILDLIFE  | \$11,114,130         | \$10,237,010         | \$10,170,389         | \$13,269,950         | \$10,238,326         | \$15,605,509         | \$13,248,075         | \$14,244,566         | \$14,416,087         |
|  | OREGON WATERSHED ENHANCEMENT BOARD  |                      |                      |                      |                      |                      | \$59,516             | \$76,367             | \$112,611            | \$68,523             |
|  | <b>OREGON Subtotal</b>  | <b>\$11,114,130</b>  | <b>\$10,237,010</b>  | <b>\$10,170,389</b>  | <b>\$13,269,950</b>  | <b>\$10,238,326</b>  | <b>\$15,665,025</b>  | <b>\$13,324,441</b>  | <b>\$14,357,177</b>  | <b>\$14,504,610</b>  |
|  | IDAHO DEPARTMENT OF FISH & WILDLIFE   | \$7,139,047          | \$11,077,547         | \$8,429,207          | \$5,174,578          | \$10,847,630         | \$17,836,561         | \$18,281,036         | \$13,726,899         | \$15,455,054         |
|  | IDAHO SOIL & WATER CONSERVATION COMMISSION  | \$91,398             | \$84,922             | \$91,275             | \$66,967             |                      |                      |                      |                      |                      |
|  | IDAHO STATE OFFICE OF SPECIES CONSERVATION  | \$195,247            | \$923,272            | \$1,367,773          | \$2,551,333          | \$2,487,433          | \$2,905,500          | \$1,368,456          | \$2,742,180          |                      |
|  | <b>IDAHO Subtotal</b>   | <b>\$7,230,445</b>   | <b>\$11,356,746</b>  | <b>\$9,449,754</b>   | <b>\$10,639,318</b>  | <b>\$13,399,163</b>  | <b>\$20,323,994</b>  | <b>\$21,186,535</b>  | <b>\$15,095,266</b>  | <b>\$18,197,234</b>  |
|  | WASHINGTON DEPARTMENT OF FISH & WILDLIFE  | \$6,415,256          | \$5,912,604          | \$4,134,350          | \$7,712,743          | \$9,148,722          | \$11,855,753         | \$10,691,474         | \$12,164,790         | \$11,894,739         |
|  | WASHINGTON DEPARTMENT OF ECOLOGY  | \$90,223             | \$211,309            | \$150,324            | \$181,562            | \$43,689             |                      |                      |                      |                      |
|  | <b>WASHINGTON Subtotal</b>  | <b>\$6,705,479</b>   | <b>\$6,123,913</b>   | <b>\$4,284,674</b>   | <b>\$7,894,305</b>   | <b>\$9,192,411</b>   | <b>\$11,855,753</b>  | <b>\$10,691,474</b>  | <b>\$12,164,790</b>  | <b>\$11,894,739</b>  |
|  | MONTANA FISH, WILDLIFE AND PARKS (MFWP)   | \$2,234,653          | \$2,762,721          | \$2,829,533          | \$2,913,118          | \$2,414,914          | \$2,382,531          | \$2,777,167          | \$3,063,650          | \$3,051,537          |
|  | <b>MONTANA Subtotal</b>   | <b>\$2,234,653</b>   | <b>\$2,762,721</b>   | <b>\$2,829,533</b>   | <b>\$2,913,118</b>   | <b>\$2,414,914</b>   | <b>\$2,382,531</b>   | <b>\$2,777,167</b>   | <b>\$3,063,650</b>   | <b>\$3,051,537</b>   |
| <b>STATE TOTAL</b>                                     |   | <b>\$27,284,708</b>  | <b>\$30,480,390</b>  | <b>\$28,728,349</b>  | <b>\$34,716,691</b>  | <b>\$35,244,814</b>  | <b>\$50,427,303</b>  | <b>\$47,979,618</b>  | <b>\$44,680,903</b>  | <b>\$47,648,120</b>  |
| <b>TRIBE</b>   | BURNS PAIUTE TRIBE  | \$733,424            | \$687,603            | \$636,144            | \$716,460            | \$658,775            | \$831,697            | \$610,972            | \$761,026            | \$1,081,655          |
|  | COEUR D'ALENE TRIBE OF IDAHO  | \$2,148,587          | \$2,537,247          | \$2,552,550          | \$2,444,908          | \$2,340,704          | \$2,668,551          | \$2,714,055          | \$2,606,886          | \$2,686,196          |
|  | COLUMBIA RIVER INTERTRIBAL FISH COMMISSION  | \$1,005,653          | \$1,776,526          | \$4,329,842          | \$4,034,143          | \$7,660,904          | \$8,747,388          | \$7,939,587          | \$8,503,076          | \$5,041,926          |
|  | COLVILLE CONFEDERATED TRIBES  | \$6,570,667          | \$4,519,814          | \$10,594,008         | \$10,278,445         | \$16,189,398         | \$21,593,516         | \$16,872,698         | \$15,116,519         | \$14,293,924         |
|  | CONFEDERATED TRIBES OF GRAND RONDE  |                      |                      |                      | \$93,475             | \$124,703            | \$158,296            | \$110,571            | \$140,398            | \$134,869            |
|  | CONFEDERATED TRIBES OF SILT/INDIANS   |                      |                      |                      |                      |                      | \$60,134             | \$52,700             | \$140,069            |                      |
|  | CONFEDERATED TRIBES OF WARM SPRINGS   | \$5,441,199          | \$3,373,196          | \$6,142,650          | \$6,078,270          | \$6,859,314          | \$7,223,659          | \$11,203,330         | \$5,691,055          | \$12,065,436         |
|  | COWITZ INDIAN TRIBE   |                      |                      |                      |                      | \$34,325             | \$118,229            | \$364,937            | \$453,801            | \$633,055            |
|  | KALISPEL TRIBE OF INDIANS   | \$1,752,034          | \$1,630,522          | \$1,790,052          | \$1,920,040          | \$2,066,331          | \$2,575,344          | \$2,709,440          | \$2,962,457          | \$3,133,722          |
|  | KOOTENAI TRIBE  | \$5,491,017          | \$7,402,457          | \$6,541,035          | \$6,938,439          | \$8,537,716          | \$12,321,474         | \$15,094,788         | \$21,941,731         | \$11,586,884         |
|  | NEZ PERCE TRIBE   | \$11,559,023         | \$11,552,934         | \$12,037,027         | \$12,644,313         | \$15,349,520         | \$16,073,605         | \$15,800,876         | \$15,294,865         | \$17,130,068         |
|  | SALISH AND KOOTENAI TRIBES CONFEDERATED TRIBES  | \$39,627             | \$1,176,490          | \$483,878            | \$540,467            | \$490,107            | \$453,175            | \$755,839            | \$644,292            | \$684,144            |
|  | SHOSHONE-BANNOCK TRIBES   | \$1,114,874          | \$1,749,602          | \$1,579,829          | \$2,438,482          | \$2,830,660          | \$2,837,601          | \$4,009,231          | \$3,551,518          | \$3,477,187          |
|  | SHOSHONE-PAIUTE TRIBES  | \$742,121            | \$684,324            | \$790,837            | \$749,767            | \$841,382            | \$1,147,875          | \$694,692            | \$626,509            | \$1,066,910          |
|  | SPOKANE TRIBE OF INDIANS  | \$2,420,625          | \$2,726,944          | \$2,744,981          | \$2,741,856          | \$2,803,647          | \$2,932,796          | \$2,709,870          | \$3,314,939          | \$2,989,703          |
|  | UMATILLA CONFEDERATED TRIBES  | \$5,421,899          | \$6,158,492          | \$6,593,550          | \$6,881,642          | \$11,365,123         | \$9,951,477          | \$12,122,357         | \$12,088,602         | \$11,248,947         |
|  | UPPER COLUMBIA UNITED TRIBES (UCUT)   |                      | \$162,707            | \$251,327            | \$516,803            | \$427,731            | \$403,540            | \$389,914            | \$448,433            | \$542,525            |
|  | UPPER SNAKE RIVER TRIBES FOUNDATION   | \$26,776             | \$145,822            | \$131,667            | \$131,667            | \$148,610            | \$162,735            | \$206,529            | \$340,150            | \$393,095            |
|  | YAKAMA CONFEDERATED TRIBES  | \$10,574,057         | \$10,795,537         | \$17,438,231         | \$24,319,364         | \$32,944,242         | \$25,613,516         | \$25,447,029         | \$23,930,424         | \$27,481,991         |
| <b>TRIBE TOTAL</b>                                     |   | <b>\$65,815,607</b>  | <b>\$56,956,171</b>  | <b>\$74,652,563</b>  | <b>\$87,535,949</b>  | <b>\$111,613,192</b> | <b>\$116,414,475</b> | <b>\$119,824,856</b> | <b>\$118,539,461</b> | <b>\$119,416,105</b> |
| <b>INTERSTATE COMPACT</b>                              | PACIFIC STATES MARINE FISHERIES COMMISSION (PSMFC)  | \$13,690,125         | \$13,283,337         | \$14,452,104         | \$13,812,821         | \$13,908,430         | \$14,053,990         | \$12,711,728         | \$13,671,165         | \$13,923,766         |
| <b>UNIVERSITY</b>                                      | UNIVERSITIES  | \$4,252,999          | \$3,441,562          | \$4,355,304          | \$3,939,562          | \$3,662,199          | \$3,384,748          | \$2,800,350          | \$3,123,240          | \$3,143,476          |
| <b>OTHER</b>   | PRIVATE/NON-PROFIT/OTHER  | \$9,529,690          | \$15,999,893         | \$16,476,097         | \$24,542,878         | \$51,870,632         | \$37,603,355         | \$36,314,947         | \$21,444,271         | \$24,048,856         |
|  | LOCAL/SEM GOVERNMENT  | \$4,257,817          | \$5,626,187          | \$8,355,797          | \$7,141,882          | \$5,933,917          | \$8,235,814          | \$7,854,727          | \$8,969,539          | \$10,995,773         |
|  | COLUMBIA BASIN FISH & WILDLIFE AUTHORITY  | \$3,220,918          | \$2,875,372          | \$2,102,582          | \$2,162,548          | \$1,748,321          | \$1,611,166          | \$1,231,260          | \$544,684            | \$53,710             |
|  | LAND ACQUISITIONS <sup>2</sup>  | \$1,605,994          | \$1,693,766          | \$26,741,905         | \$52,203,712         | \$30,040,400         | \$23,741,722         | \$20,104,220         | \$22,112,005         |                      |
|  | UTILITY   | \$1,207,766          | \$897,497            | \$36,104             | \$44,731             | \$935,038            | \$1,802,447          | \$1,810,123          | \$1,862,082          | \$2,058,245          |
|  | NATIONAL FISH & WILDLIFE FOUNDATION   | \$3,613,020          | \$3,944,862          | \$3,561,562          | \$3,471,611          | \$4,778,134          | \$4,833,194          | \$5,528,550          | \$4,191,459          | \$5,148,896          |
|  | CHIEF JOSEPH HISTORICAL SOCIETY (GRANT FUND)  |                      |                      |                      |                      | -\$5,650,821         | -\$3,141,637         |                      |                      | -\$1,075,149         |
| <b>OTHER TOTAL</b>                                     |   | <b>\$21,629,211</b>  | <b>\$45,971,805</b>  | <b>\$47,467,909</b>  | <b>\$64,125,555</b>  | <b>\$111,810,933</b> | <b>\$68,992,739</b>  | <b>\$76,481,330</b>  | <b>\$57,136,255</b>  | <b>\$62,454,997</b>  |
| <b>GRAND TOTAL</b>                                     |   | <b>\$161,238,055</b> | <b>\$174,413,007</b> | <b>\$205,271,805</b> | <b>\$239,587,953</b> | <b>\$311,214,895</b> | <b>\$306,409,772</b> | <b>\$291,101,892</b> | <b>\$269,134,110</b> | <b>\$279,550,549</b> |
| <b>NOTES:</b>  |   |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| 1)   | Values above include accruals.  |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| 2)   | Starting in FY13, land acquisition values may include stewardship costs for long-term operations and maintenance (O&M). |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| 3)   | FY2014 revised as of March 10, 2016.  |                      |                      |                      |                      |                      |                      |                      |                      |                      |

| Direct Program Expenditures by Category, FY2015  |                      |                      |                      |                      |                      |                      |                      |                      |                      |
|--|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Category   | 2007                 | 2008                 | 2009                 | 2010                 | 2011                 | 2012                 | 2013                 | 2014 <sup>4</sup>    | 2015                 |
| Coordination (Local/Regional)  | \$7,393,717          | \$15,227,116         | \$10,610,170         | \$22,452,594         | \$25,105,796         | \$20,135,259         | \$30,074,160         | \$13,294,305         | \$13,359,223         |
| Coordination (BPA Overhead) <sup>2</sup>   |                      |                      |                      |                      |                      |                      |                      | \$14,616,142         | \$14,545,375         |
| Data Management  | \$206,545            | \$2,903,385          | \$3,964,851          | \$4,199,379          | \$4,319,007          | \$4,130,748          | \$3,980,351          | \$4,244,807          | \$4,077,674          |
| Habitat (Restoration/Protection)   | \$65,391,135         | \$60,795,513         | \$76,781,454         | \$80,386,909         | \$123,373,947        | \$122,609,228        | \$118,831,309        | \$102,422,790        | \$124,435,135        |
| Harvest Augmentation   | \$447,385            | \$3,674,945          | \$3,417,255          | \$3,241,566          | \$3,999,302          | \$4,429,624          | \$4,077,995          | \$4,062,872          | \$4,248,774          |
| Mainstem Survival  | \$4,164,020          | -                    | -                    | -                    | -                    | -                    | -                    | -                    | -                    |
| Monitoring   | \$22,794,198         | -                    | -                    | -                    | -                    | -                    | -                    | -                    | -                    |
| Production (Supplementation)   | \$36,296,240         | \$25,636,528         | \$28,175,648         | \$45,271,831         | \$61,846,889         | \$53,165,835         | \$50,024,766         | \$45,146,279         | \$32,202,008         |
| Research and Evaluation  | \$26,811,186         | -                    | -                    | -                    | -                    | -                    | -                    | -                    | -                    |
| BPA Program Support  | \$11,152,430         | -                    | -                    | -                    | -                    | -                    | -                    | -                    | -                    |
| Law Enforcement  |                      | \$1,115,159          | \$705,044            | \$656,356            | \$805,290            | \$853,177            | \$750,780            | \$683,479            | \$865,990            |
| Predator Removal   |                      | \$3,206,172          | \$3,204,130          | \$3,549,112          | \$2,983,190          | \$3,553,732          | \$3,309,044          | \$3,679,435          | \$3,614,166          |
| Research, Monitoring and Evaluation  |                      | \$61,946,169         | \$70,325,233         | \$79,820,206         | \$89,101,514         | \$89,527,224         | \$80,053,469         | \$80,583,801         | \$82,202,203         |
| <b>Total</b>   | <b>\$174,656,855</b> | <b>\$174,413,007</b> | <b>\$205,271,805</b> | <b>\$239,587,953</b> | <b>\$311,214,895</b> | <b>\$304,409,772</b> | <b>\$291,101,892</b> | <b>\$249,134,110</b> | <b>\$279,550,549</b> |
| Notes:   |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| 1) BPA's database identifies projects by their "Purpose" (general goal) and "Emphasis" (primary type of work, e.g., habitat restoration.) BPA does not track its project management overhead against individual projects or contracts, so there is no easy or accurate way to allocate BPA overhead to specific purposes or emphases. Thus, in the above report, BPA includes its staffing to manage the 600-plus contracts in its fish and wildlife program in the category identified as Coordination (BPA Overhead), and its direct technical services contracts for Data Management and RM&E in those respective categories. |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| 2) Estimated spending is based at the project level. Therefore if a project is assigned an emphasis of Habitat, but also does RVE, all expenditures for the project are included under Habitat.  |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| 3) Starting in Fiscal Year 2015 (and revised for FY2014), Costs by Category will now separate Coordination costs between Regional/Local Coordination and BPA Overhead.   |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| 4) FY2014: No changes as of March 9, 2014, but have split the Coordination between Regional and BPA Overhead.  |                      |                      |                      |                      |                      |                      |                      |                      |                      |

**Direct Program Expenditures by Fund, FY2015**

| <b>FUND</b>                | <b>2009</b>           | <b>2010</b>           | <b>2011</b>           | <b>2012</b>           | <b>2013</b>           | <b>2014<sup>3</sup></b> | <b>2015</b>           |
|----------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-------------------------|-----------------------|
| Total BiOp (non-Accord)    | \$ 75,084,433         | \$ 88,120,408         | \$ 105,257,648        | \$ 109,818,406        | \$102,742,463         | \$93,422,644            | \$102,350,719         |
| Total Accords <sup>1</sup> |                       |                       |                       |                       |                       |                         |                       |
| Total Accords - BiOp       | \$ 35,655,361         | \$ 64,187,623         | \$ 79,829,739         | \$ 76,351,240         | \$75,238,565          | \$53,057,117            | \$78,332,689          |
| Total Accords - Non-BiOp   | \$ 18,896,601         | \$ 20,983,783         | \$ 37,606,835         | \$ 45,782,424         | \$48,583,014          | \$50,913,614            | \$36,986,094          |
| Total General              | \$ 62,498,937         | \$ 51,765,457         | \$ 73,608,793         | \$ 58,956,587         | \$48,813,941          | \$54,828,830            | \$44,748,863          |
| Total BPA Overhead         | \$ 13,137,473         | \$ 14,530,682         | \$ 14,911,880         | \$ 15,501,115         | \$15,723,909          | \$16,911,905            | \$17,132,184          |
| <b>TOTAL PROGRAM</b>       | <b>\$ 205,272,805</b> | <b>\$ 239,587,953</b> | <b>\$ 311,214,895</b> | <b>\$ 306,409,772</b> | <b>\$ 291,101,892</b> | <b>\$ 269,134,110</b>   | <b>\$ 279,550,549</b> |

**Notes:**

1) BiOp tracking at fund level began in 2009, Accords began in 2008.

2) Spending is estimated based on the % of funding towards a project. For example, if a project budget is 70% BiOp and 30% General, the project expenditures will be prorated 70% towards BiOp and 30% General.

3) FY2014 revised as of March 10, 2016.

## Direct Program Expenditures by Province, FY2015

| Province  | 2009                 | 2010                 | 2011                 | 2012                 | 2013                 | 2014 <sup>4</sup>    | 2015                 |
|---|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| BLUE MOUNTAIN   | \$10,063,271         | \$12,243,309         | \$13,045,831         | \$13,498,753         | \$13,359,734         | \$14,630,130         | \$17,000,728         |
| COLUMBIA CASCADE                                      | \$18,334,391         | \$26,543,346         | \$52,343,560         | \$51,216,105         | \$36,245,776         | \$26,801,554         | \$28,375,625         |
| COLUMBIA GORGE  | \$13,046,970         | \$16,165,914         | \$19,962,308         | \$13,560,427         | \$14,326,142         | \$10,014,903         | \$11,627,815         |
| COLUMBIA PLATEAU                                      | \$42,706,871         | \$50,405,309         | \$59,165,613         | \$61,637,074         | \$61,223,676         | \$57,654,085         | \$67,774,852         |
| COLUMBIA ESTUARY                                      | \$8,056,193          | \$6,848,834          | \$9,469,437          | \$11,109,892         | \$15,336,657         | \$10,819,987         | \$11,087,655         |
| INTERMOUNTAIN   | \$12,350,282         | \$15,702,284         | \$17,198,718         | \$19,784,368         | \$16,144,888         | \$17,769,309         | \$17,233,163         |
| LOWER COLUMBIA  | \$11,181,219         | \$15,259,843         | \$41,609,286         | \$33,899,854         | \$44,562,896         | \$13,867,496         | \$39,534,457         |
| MIDDLE SNAKE  | \$3,299,192          | \$5,224,071          | \$4,433,754          | \$13,235,463         | \$3,315,759          | \$3,817,058          | \$4,595,581          |
| MOUNTAIN COLUMBIA                                     | \$21,341,820         | \$11,427,897         | \$24,894,377         | \$22,160,067         | \$20,849,803         | \$29,293,225         | \$19,238,002         |
| MOUNTAIN SNAKE  | \$21,934,884         | \$22,917,641         | \$28,149,960         | \$30,311,321         | \$28,453,559         | \$28,224,756         | \$40,242,739         |
| UPPER SNAKE   | \$1,466,476          | \$7,248,075          | \$4,904,675          | \$13,213,441         | \$10,805,582         | \$19,886,298         | \$3,761,184          |
| OTHER <sup>2</sup>                                    | \$7,274,724          | \$6,826,368          | \$7,722,192          | \$6,872,463          | \$4,578,007          | \$4,892,097          | \$5,046,105          |
| PROGRAM SUPPORT/ADMIN/<br>OVERHEAD/OTHER <sup>3</sup> | \$34,215,512         | \$42,775,062         | \$28,315,184         | \$15,910,542         | \$21,899,413         | \$31,463,212         | \$14,032,643         |
| <b>Total</b>  | <b>\$205,271,805</b> | <b>\$239,587,953</b> | <b>\$311,214,895</b> | <b>\$306,409,772</b> | <b>\$291,101,892</b> | <b>\$269,134,110</b> | <b>\$279,550,549</b> |

### Notes:

- 1) Starting in 2008, spending by province is tracked in Pisces based on where the contractor explicitly identified work location.
- 2) Other includes "Undetermined" locations such as Ocean, Canada; and provinces not recognized by NPCC.
- 3) Program Support/Admin/Other includes spending that cannot be traced back to a contract that has at least one work element requiring location; contracts without any work elements at all; program level spending not mapped to a specific project; and BPA Overhead.
- 4) FY14 revised as of March 9, 2016.

| Direct Program Expenditures by Species, FY2015  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
|---|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Species Type  | 2006                 | 2007                 | 2008                 | 2009                 | 2010                 | 2011                 | 2012                 | 2013                 | 2014 <sup>3</sup>    | 2015                 |
| <b>Expense Expenditures</b>   |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| Anadromous Fish   | \$97,220,589         | \$95,383,739         | \$93,937,946         | \$115,447,417        | \$133,710,043        | \$152,268,152        | \$172,625,717        | \$162,598,813        | \$160,287,940        | \$181,913,710        |
| Resident Fish   | \$19,147,678         | \$20,456,941         | \$30,166,347         | \$30,945,648         | \$33,492,947         | \$38,469,680         | \$41,986,004         | \$39,747,604         | \$34,671,529         | \$36,098,327         |
| Wildlife  | \$7,380,452          | \$8,894,314          | \$10,153,866         | \$11,491,287         | \$12,105,809         | \$12,032,226         | \$13,214,570         | \$11,401,471         | \$11,970,486         | \$16,585,522         |
| Program Support   | \$14,113,271         | \$14,499,336         | \$14,620,375         | \$19,975,090         | \$20,280,762         | \$18,278,218         | \$21,130,595         | \$25,235,638         | \$24,830,807         | \$23,579,652         |
| CJH- Cost Share   |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| <b>Capital Expenditures</b>   |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| Anadromous Fish   | \$9,409,549          | \$9,738,655          | \$8,817,105          | \$11,123,909         | \$26,914,846         | \$56,777,879         | \$33,006,532         | \$32,468,551         | \$6,079,913          | \$10,173,688         |
| Resident Fish   | \$6,540,613          | \$977,724            | \$0,43,692           | \$10,279,652         | \$3,163,912          | \$20,472,130         | \$11,692,569         | \$0,440,507          | \$16,950,535         | \$2,603,104          |
| Wildlife  | \$19,462,457         | \$24,469,222         | \$6,525,720          | \$2,261,438          | \$9,564,849          | \$18,676,437         | \$15,853,187         | \$10,813,833         | \$14,438,818         | \$9,789,356          |
| Program Support <sup>2</sup>  | \$1,141              | \$0                  | \$9,347,954          | \$3,747,363          | \$354,784            | -\$10,012            | \$42,215             | \$375,475            | -\$123,918           | -\$4,049             |
| CJH Cost Share  |                      |                      |                      |                      |                      |                      | -\$5,658,821         | -\$3,141,637         |                      | -\$1,196,935         |
| <b>TOTAL</b>  | <b>\$173,276,548</b> | <b>\$174,429,190</b> | <b>\$174,413,006</b> | <b>\$205,271,805</b> | <b>\$239,587,953</b> | <b>\$311,214,815</b> | <b>\$306,409,772</b> | <b>\$291,101,892</b> | <b>\$267,134,110</b> | <b>\$279,550,549</b> |
| Notes:  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| 1) Starting in 2008, Spending can be tracked back to a work element where the contractor explicitly identified the "Primary Focal Species" benefiting from the work.  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| 2) Program Support Includes contract that contain only administrative work elements or program level spending that could not be mapped to a specific project, as well as EPA Internal overhead such as personnel costs. |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| 3) FY2014 revised as of March 17, 2016.   |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |

| <b>Direct Program Expenditures for Research, Monitoring and Evaluation (RM&amp;E), FY2015</b>   |                     |
|---|---------------------|
| Artificial Production   | \$24,079,654        |
| Habitat   | \$13,434,942        |
| Harvest   | \$1,098,003         |
| Hydrosystem   | \$8,107,150         |
| Predation   | \$1,553,865         |
| Programmatic  | \$33,928,588        |
|   | <b>\$82,202,203</b> |
| <b>Notes:</b>   |                     |
| 1) Estimated spending is based at the project level. Therefore if a project is labeled Artificial Production, but also supports Habitat, the expenditures are counted as Artificial Production. |                     |

**Direct Program Expenditures of FCRPS BiOp Projects, FY2015**

| Category     | 2009                 | 2010                 | 2011                 | 2012                 | 2013                 | 2014 <sup>2</sup>    | 2015                 |
|--------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Expense      | \$113,900,603        | \$129,758,323        | \$143,477,289        | \$162,060,445        | \$151,177,409        | \$143,128,948        | \$165,362,221        |
| Capital      | \$11,668,863         | \$21,761,323         | \$31,297,548         | \$29,240,867         | \$29,683,425         | \$5,925,196          | \$7,703,153          |
| <b>TOTAL</b> | <b>\$125,569,466</b> | <b>\$151,519,646</b> | <b>\$174,774,837</b> | <b>\$191,301,312</b> | <b>\$180,860,834</b> | <b>\$149,054,144</b> | <b>\$173,065,374</b> |

**Notes:**

1) Estimated spending is based at the project level. Therefore, if a project partially supports the FCRPS BiOp, all expenditures for the project are included.

2) FY2014 revised as of March 9, 2016.

| Direct Program Expenditures on ESA-Listed Fish, 2015  |                           |  |                        |                           |  |                        |                      |
|---|---------------------------|--|------------------------|---------------------------|--|------------------------|----------------------|
| ESA Listed Focal Species Name   | Expense "Direct" Spending | Expense "Contract Administration" Spending | Expense Total Spending | Capital "Direct" Spending | Capital "Contract Administration" Spending | Capital Total Spending | Total Spending       |
| Chinook - Lower Columbia River ESU (threatened)   | \$4,624,948               | \$1,515,536                                | \$6,340,484            | \$850,918                 | \$6,660                                    | \$857,578              | \$7,198,062          |
| Chinook - Snake River Fall ESU (threatened)   | \$8,695,892               | \$3,839,693                                | \$12,535,585           | \$0                       | \$0  | \$0                    | \$12,535,585         |
| Chinook - Snake River Spring/Summer ESU (threatened)  | \$7,518,300               | \$6,157,858                                | \$13,676,158           | \$307,591                 | \$71,975                                   | \$379,566              | \$14,055,724         |
| Chinook - Upper Columbia River Spring ESU (endangered)  | \$10,056,141              | \$4,382,224                                | \$14,438,365           | \$43,198                  | \$66,928                                   | \$110,126              | \$14,548,491         |
| Chinook - Upper Willamette River ESU (threatened)   | \$3,261,114               | \$1,373,846                                | \$4,634,960            | \$1,639,393               | \$4,299,630                                | \$5,939,023            | \$10,574,083         |
| Chum - Columbia River ESU (threatened)  | \$2,052,394               | \$397,505                                  | \$2,449,899            | \$0                       | \$0  | \$0                    | \$2,449,899          |
| Coho - Lower Columbia River ESU (threatened)  | \$2,447,277               | \$725,362                                  | \$3,172,639            | \$36,730                  | \$2,909                                    | \$39,639               | \$3,212,277          |
| Sockeye - Snake River ESU (endangered)  | \$5,983,178               | \$1,165,763                                | \$7,148,941            | \$162                     | \$13                                       | \$175                  | \$7,149,116          |
| Steelhead - Lower Columbia River DPS (threatened)   | \$4,238,022               | \$1,245,813                                | \$5,503,835            | \$246,705                 | \$7,504                                    | \$254,209              | \$5,758,044          |
| Steelhead - Middle Columbia River DPS (threatened)  | \$26,279,456              | \$10,899,091                               | \$37,178,547           | \$4,206,016               | \$1,100,445                                | \$5,306,461            | \$42,485,008         |
| Steelhead - Snake River DPS (threatened)  | \$19,426,850              | \$3,127,829                                | \$22,554,679           | \$308,207                 | \$21,925                                   | \$330,132              | \$22,884,811         |
| Steelhead - Upper Columbia River DPS (endangered)   | \$11,633,879              | \$3,748,116                                | \$15,381,995           | \$238,204                 | \$29,580                                   | \$267,784              | \$15,649,779         |
| Steelhead - Upper Willamette River DPS (threatened)   | \$2,042,555               | \$1,020,918                                | \$3,063,473            | \$1,659,601               | \$4,299,630                                | \$5,959,231            | \$9,022,704          |
| Chub, Oregon (endangered)   | \$47,569                  | \$323,248                                  | \$370,817              | \$0                       | \$0  | \$0                    | \$370,817            |
| Cutthroat Trout, Lahontan (threatened)  | \$760,214                 | \$766,555                                  | \$1,526,769            | \$0                       | \$0  | \$0                    | \$1,526,769          |
| Sturgeon, White - Kootenai River DPS (endangered)   | \$7,533,950               | \$2,228,815                                | \$9,762,765            | \$1,032,050               | \$247                                      | \$1,032,297            | \$10,795,062         |
| Trout, Bull (threatened)  | \$8,181,637               | \$5,458,336                                | \$13,639,973           | \$1,554,393               | \$74,762                                   | \$1,629,155            | \$15,269,128         |
| <b>TOTAL</b>  | <b>\$146,085,056</b>      | <b>\$50,334,818</b>                        | <b>\$196,419,874</b>   | <b>\$12,513,368</b>       | <b>\$10,010,158</b>                        | <b>\$22,523,526</b>    | <b>\$218,943,400</b> |
| <b>Notes:</b>   |                           |  |                        |                           |  |                        |                      |
| 1) Direct spending can be tracked back to a work element where the contractor explicitly identified the "Primary Focal Species" benefiting from the work.                       |                           |  |                        |                           |  |                        |                      |
| 2) Contract Administration spending can be tracked back to a work element that did not require the contractor to identify the "Primary Focal Species" benefiting from the work. |                           |  |                        |                           |  |                        |                      |
| 3) Negative values for Capital Spending are a result of over-accruing costs in the previous year.   |                           |  |                        |                           |  |                        |                      |

### Direct Program Expenditures on ESA-Listed Fish, 2014 <sup>3</sup>

| ESA Listed Focal Species Name                          | Expense<br>"Direct"<br>Spending | Expense<br>"Contract<br>Administration"<br>Spending | Expense Total<br>Spending | Capital "Direct"<br>Spending | Capital "Contract<br>Administration"<br>Spending | Capital Total<br>Spending | Total<br>Spending    |
|--|---------------------------------|---|---------------------------|------------------------------|--|---------------------------|----------------------|
| Chinook - Lower Columbia River ESU (threatened)        | \$4,725,923                     | \$1,426,621   | \$6,152,544               | (\$492,022)                  | (\$20,197)                                       | (\$512,218)               | \$5,640,325          |
| Chinook - Snake River Fall ESU (threatened)            | \$7,679,715                     | \$3,496,171   | \$11,175,886              | \$0                          | \$0  | \$0                       | \$11,175,886         |
| Chinook - Snake River Spring/Summer ESU (threatened)   | \$18,395,820                    | \$5,036,142   | \$23,431,962              | \$252,633                    | \$16,292   | \$268,926                 | \$23,700,888         |
| Chinook - Upper Columbia River Spring ESU (endangered) | \$9,088,440                     | \$5,128,464   | \$14,216,904              | \$96,679                     | \$21,562   | \$118,241                 | \$14,335,145         |
| Chinook - Upper Willamette River ESU (threatened)      | \$3,156,785                     | \$1,294,476   | \$4,451,261               | \$104,041                    | \$554,186  | \$658,227                 | \$5,109,488          |
| Chum - Columbia River ESU (threatened)                 | \$2,201,172                     | \$428,408   | \$2,629,580               | \$0                          | \$0  | \$0                       | \$2,629,580          |
| Coho - Lower Columbia River ESU (threatened)           | \$2,823,896                     | \$795,929   | \$3,619,825               | \$0                          | \$0  | \$0                       | \$3,619,825          |
| Sockeye - Snake River ESU (endangered)                 | \$5,989,214                     | \$1,098,036   | \$7,087,250               | \$1,780,911                  | \$3,704  | \$1,784,615               | \$8,871,865          |
| Steelhead - Lower Columbia River DPS (threatened)      | \$4,552,969                     | \$1,189,441   | \$5,742,410               | (\$525,102)                  | (\$20,956)                                       | (\$546,058)               | \$5,196,352          |
| Steelhead - Middle Columbia River DPS (threatened)     | \$22,470,269                    | \$8,448,268   | \$30,918,537              | \$2,398,425                  | \$659,757  | \$3,058,182               | \$33,976,719         |
| Steelhead - Snake River DPS (threatened)               | \$17,584,021                    | \$4,288,562   | \$21,872,583              | \$294,382                    | \$16,292   | \$310,675                 | \$22,183,258         |
| Steelhead - Upper Columbia River DPS (endangered)      | \$11,396,413                    | \$4,015,940   | \$15,412,353              | \$356,608                    | \$34,664   | \$391,273                 | \$15,803,626         |
| Steelhead - Upper Willamette River DPS (threatened)    | \$1,789,313                     | \$939,744   | \$2,729,057               | \$104,038                    | \$554,186  | \$658,224                 | \$3,387,281          |
| Chub, Oregon (endangered)                              | \$195,076                       | \$236,044   | \$431,119                 | \$0                          | \$0  | \$0                       | \$431,119            |
| Cutthroat Trout, Lahontan (threatened)                 | \$813,397                       | \$567,557   | \$1,380,954               | \$0                          | \$0  | \$0                       | \$1,380,954          |
| Sturgeon, White - Kootenai River DPS (endangered)      | \$7,272,427                     | \$1,918,905   | \$9,191,332               | \$12,252,838                 | \$3,726  | \$12,256,564              | \$21,447,896         |
| Trout, Bull (threatened)                               | \$6,458,711                     | \$4,829,631   | \$11,288,342              | \$4,699,026                  | \$65,154   | \$4,764,180               | \$16,052,522         |
| <b>TOTAL</b>   | <b>\$126,593,560</b>            | <b>\$45,138,338</b>                                 | <b>\$171,731,898</b>      | <b>\$21,322,459</b>          | <b>\$1,888,373</b>                               | <b>\$23,210,832</b>       | <b>\$194,942,730</b> |

**Notes:**

- 1) Direct spending can be tracked back to a work element where the contractor explicitly identified the "Primary Focal Species" benefiting from the work.
- 2) Contract Administration spending can be tracked back to a work element that did not require the contractor to identify the "Primary Focal Species" benefiting from the work.
- 3) Negative values for Capital Spending are a result of overaccruing costs in the previous year.
- 3) Revised on March 17, 2016

**From:** Zimmer,Pat R (CONTR) - E-4  
**Sent:** Tue Mar 15 14:10:04 2016  
**To:** 'Harrison, John'; Grant,Sharon D (BPA) - EWU-4  
**Subject:** RE: Annual report on Bonneville's fish and wildlife costs  
**Importance:** Normal  
**Attachments:** image001.jpg

Right. It seems like all the tables should have a corresponding graph and there is no 3D graph.

**From:** Harrison, John [mailto:jharrison@nwcouncil.org]  
**Sent:** Tuesday, March 15, 2016 2:06 PM  
**To:** Grant,Sharon D (BPA) - EWU-4  
**Cc:** Zimmer,Pat R (BPA) - DIR-7  
**Subject:** RE: Annual report on Bonneville's fish and wildlife costs

We did not have a Figure 3D in last year's report, but we did have a Table 3D. Because it is based on emphasis, I would say – guess – that yes, we want to delete it. Pat?

Table 3D: Direct Program Support, FY2014

| Area                             | Emphasis Type          | BPA Program Support | Non-BPA Program Support | Grand Total (Capital & Expense) |
|----------------------------------|------------------------|---------------------|-------------------------|---------------------------------|
| BASINWIDE                        | DATA MANAGEMENT        | \$512,923           | \$3,080,757             | \$3,593,680                     |
|                                  | LAW ENFORCEMENT        |                     | \$212,231               | \$212,231                       |
|                                  | LOCAL COORDINATION     |                     | \$557,722               | \$557,722                       |
|                                  | REGIONAL COORDINATION  | \$15,590,384        | \$3,743,118             | \$19,333,502                    |
|                                  | RESTORATION/PROTECTION |                     | \$3,169,660             | \$3,169,660                     |
|                                  | RM AND E               | \$2,272,192         | \$23,473,388            | \$25,745,580                    |
|                                  | SUPPLEMENTATION        |                     | \$842,438               | \$842,438                       |
| <b>BASINWIDE TOTAL</b>           |                        | <b>\$18,375,499</b> | <b>\$35,079,313</b>     | <b>\$53,454,812</b>             |
| BASINWIDE/MAINSTEM               | RM AND E               |                     | \$568,933               | \$568,933                       |
| <b>BASINWIDE/MAINSTEM TOTAL</b>  |                        | <b>\$0</b>          | <b>\$568,933</b>        | <b>\$568,933</b>                |
| MAINSTEM                         | DATA MANAGEMENT        |                     | \$489,482               | \$489,482                       |
|                                  | HARVEST AUGMENTATION   |                     | \$134,850               | \$134,850                       |
|                                  | LAW ENFORCEMENT        |                     | \$506,656               | \$506,656                       |
|                                  | PREDATOR REMOVAL       |                     | \$3,879,435             | \$3,879,435                     |
|                                  | RM AND E               |                     | \$3,239,039             | \$3,239,039                     |
| <b>MAINSTEM TOTAL</b>            |                        | <b>\$0</b>          | <b>\$8,249,463</b>      | <b>\$8,249,463</b>              |
| MAINSTEM/PROVINCIAL              | LOCAL COORDINATION     |                     | \$1,394,927             | \$1,394,927                     |
|                                  | RM AND E               |                     | \$427,740               | \$427,740                       |
| <b>MAINSTEM/PROVINCIAL TOTAL</b> |                        | <b>\$0</b>          | <b>\$1,822,666</b>      | <b>\$1,822,666</b>              |
| OCEAN                            | RM AND E               |                     | \$1,069,341             | \$1,069,341                     |
| <b>OCEAN TOTAL</b>               |                        | <b>\$0</b>          | <b>\$1,069,341</b>      | <b>\$1,069,341</b>              |
| PROVINCIAL                       | DATA MANAGEMENT        |                     | \$161,645               | \$161,645                       |
|                                  | HARVEST AUGMENTATION   |                     | \$3,928,022             | \$3,928,022                     |
|                                  | LAW ENFORCEMENT        |                     | \$164,792               | \$164,792                       |
|                                  | LOCAL COORDINATION     |                     | \$5,535,739             | \$5,535,739                     |
|                                  | REGIONAL COORDINATION  |                     | \$1,088,558             | \$1,088,558                     |
|                                  | RESTORATION/PROTECTION |                     | \$99,155,669            | \$99,155,669                    |
|                                  | RM AND E               |                     | \$49,518,183            | \$49,518,183                    |
|                                  | SUPPLEMENTATION        |                     | \$44,303,841            | \$44,303,841                    |
| <b>PROVINCIAL TOTAL</b>          |                        | <b>\$0</b>          | <b>\$203,856,449</b>    | <b>\$203,856,449</b>            |
| REGIONAL                         | RESTORATION/PROTECTION |                     | \$97,462                | \$97,462                        |
|                                  | RM AND E               |                     | \$14,984                | \$14,984                        |
| <b>REGIONAL TOTAL</b>            |                        | <b>\$0</b>          | <b>\$112,446</b>        | <b>\$112,446</b>                |
| <b>GRAND TOTAL</b>               |                        | <b>\$18,375,499</b> | <b>\$250,758,611</b>    | <b>\$269,134,110</b>            |

Estimated spending is based at the project level. Therefore if a project is assigned an emphasis of Habitat, but also does RME, all expenditures for the project are included under Habitat.

**From:** Grant, Sharon D (BPA) - EWU-4 [mailto:sdgrant@bpa.gov]  
**Sent:** Tuesday, March 15, 2016 1:58 PM  
**To:** Harrison, John <jharrison@nwcouncil.org>  
**Cc:** Zimmer, Pat R (BPA) - DIR-7 <przimmer@bpa.gov>

**Subject:** RE: Annual report on Bonneville's fish and wildlife costs

Does that mean you are deleting 3D?

**From:** Harrison, John [mailto:jharrison@nwcouncil.org]  
**Sent:** Tuesday, March 15, 2016 1:56 PM  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Cc:** Zimmer, Pat R (BPA) - DIR-7  
**Subject:** RE: Annual report on Bonneville's fish and wildlife costs

Hi, Sharon:

Yes, I know it is confusing, and I apologize. Attached is the note I wrote to our PA Committee, and I am copying Pat on this reply just to be sure we all are on the same page. In the attached memo, I write:

I propose to delete Figure 3A, revise Figure 3B, and replace Figure 3C with another. The reason is that they are based on the "Purpose and Emphasis" project classification, which Bonneville says does not reflect the program categories clearly or accurately. So here's what I propose:

- Delete 3A, as the categories are confusing and, according to Bonneville, not accurate because of the purpose and emphasis categorization.
- 3B provides much of the same information as 3A. The Purpose and Emphasis system lumps Bonneville overhead in the Coordination category; Bonneville recommends breaking it out here for accuracy/clarity. So we would keep this figure but break out coordination into two slices – regional coordination and Bonneville overhead.
- 3C would be replaced with the breakout of RM&E shown in the current 3A and would include RM &E costs for artificial production, habitat, harvest, hydro, predation, and programmatic costs.

Pat, is this right?

John

**From:** Grant, Sharon D (BPA) - EWU-4 [mailto:sdgrant@bpa.gov]  
**Sent:** Tuesday, March 15, 2016 1:26 PM  
**To:** Harrison, John <jharrison@nwcouncil.org>  
**Subject:** FW: Annual report on Bonneville's fish and wildlife costs

Hi John,

I have a question regarding one of the "changes" below, and I thought I would get the lowdown directly from you.

Last year, Table 3D: Direct Program Support shows Program Support by Area, then Emphasis Type, then each divided by BPA and Non-BPA Program Support.

Below you do not reference this table at all, but 3B, the Costs by Category, requires a “new” breakout of coordination costs between Regional (and I assume Local) vs. BPA Overhead.

Since the figures under 3D and 3B would be quite different, I wanted to make sure you were dropping 3D and expanding 3B only.

Sharon Grant  
Bonneville Power Administration  
503-230-5215

**From:** Mercier, Bryan K (BPA) - EWB-4  
**Sent:** Wednesday, March 02, 2016 10:11 AM  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Cc:** Zimmer, Pat R (BPA) - DIR-7  
**Subject:** FW: Annual report on Bonneville's fish and wildlife costs

FYI.

Bryan K Mercier  
503.230.3991

**From:** Harrison, John [mailto:jharrison@nwcouncil.org]  
**Sent:** Wednesday, March 02, 2016 9:42 AM  
**To:** Zimmer, Pat R (BPA) - DIR-7; Mercier, Bryan K (BPA) - EWB-4; Horton, Stacy  
**Subject:** FW: Annual report on Bonneville's fish and wildlife costs

All:  
Typo below, sorry. PBL costs are/were in Figure 1B, not 2B. We decided to keep 2B (costs of FCRPS BiOp projects – third bullet in the first group below).  
John

**From:** Harrison, John  
**Sent:** Tuesday, March 01, 2016 2:53 PM  
**To:** Mercier, Bryan K (BPA) - KEWR-4 <>  
**Cc:** 'Zimmer, Pat R (BPA) - DIR-7' <>; Horton, Stacy <>  
**Subject:** Annual report on Bonneville's fish and wildlife costs

Hi, Bryan:  
Pat Zimmer and I spoke recently about changes to the annual report to the Governors on Bonneville's fish and wildlife costs. I then discussed those proposals with Tom Karier and Stacy Horton and we ended up accepting nearly all of the proposals. So now I'm ready to proceed. Here's the list of spreadsheets I would like for the next report:

- Total costs, 1980-2015 (I have a Feb. 1 version of this table so I only need it again if there is a new version)

- Costs by types of species, FY 2015
- Costs of FCRPS BiOp projects, 2008-2015
- Costs associated with ESA-listed fish, FY 2015
- Direct program costs by fund, FY 2015
- Direct program costs by category, FY 2015, with a separate breakout of coordination costs in two categories: Regional coordination and Bonneville overhead
  - RM&E costs for artificial production, habitat, harvest, hydro, predation, and programmatic costs, FY 2015
- Costs by province, FY 2015
- Costs by work element location, FY 2015
- Costs by contractor types, FY 2015
- Costs of land purchases for fish and wildlife habitat, FY 20xx-2015 (we will try to get more than one year into the figure)

We agreed to drop:

- Bonneville's PBL costs (2B)
- Costs by purpose and emphasis (3A)
- The pie chart of total costs over time (7A). Instead, we will use just the ribbon figure (last year's 7B) and add the totals to the legend of the figure
- Costs of artificial production (3C)

Stacy and Pat, if I missed something, please let me (and Bryan) know. I plan to discuss this with the Public Affairs Committee next Tuesday. I'd like to complete the draft report for the committee to review at the April meeting, then take it to the full Council at the May meeting for release for public comment, then issue the final version in June.

Thanks very much.

John

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

**From:** Harrison, John  
**Sent:** Tue Mar 15 13:55:59 2016  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Cc:** Zimmer, Pat R (BPA) - DIR-7  
**Subject:** RE: Annual report on Bonneville's fish and wildlife costs  
**Importance:** Normal  
**Attachments:** Note to PA Comm describing proposed changes February 2016.docx

Hi, Sharon:

Yes, I know it is confusing, and I apologize. Attached is the note I wrote to our PA Committee, and I am copying Pat on this reply just to be sure we all are on the same page. In the attached memo, I write:

I propose to delete Figure 3A, revise Figure 3B, and replace Figure 3C with another. The reason is that they are based on the “Purpose and Emphasis” project classification, which Bonneville says does not reflect the program categories clearly or accurately. So here’s what I propose:

- Delete 3A, as the categories are confusing and, according to Bonneville, not accurate because of the purpose and emphasis categorization.
- 3B provides much of the same information as 3A. The Purpose and Emphasis system lumps Bonneville overhead in the Coordination category; Bonneville recommends breaking it out here for accuracy/clarity. So we would keep this figure but break out coordination into two slices – regional coordination and Bonneville overhead.
- 3C would be replaced with the breakout of RM&E shown in the current 3A and would include RM&E costs for artificial production, habitat, harvest, hydro, predation, and programmatic costs.

Pat, is this right?

John

**From:** Grant, Sharon D (BPA) - EWU-4 [mailto:sdgrant@bpa.gov]  
**Sent:** Tuesday, March 15, 2016 1:26 PM  
**To:** Harrison, John <jharrison@nwcouncil.org>  
**Subject:** FW: Annual report on Bonneville's fish and wildlife costs

Hi John,

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Last year, Table 3D: Direct Program Support shows Program Support by Area, then Emphasis Type, then each divided by BPA and Non-BPA Program Support.

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Sharon Grant  
Bonneville Power Administration  
503-230-5215

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**Sent:** Wednesday, March 02, 2016 10:11 AM  
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**Subject:** FW: Annual report on Bonneville's fish and wildlife costs

FYI.

Bryan K Mercier  
503.230.3991

**From:** Harrison, John [mailto:jharrison@nwcouncil.org]  
**Sent:** Wednesday, March 02, 2016 9:42 AM  
**To:** Zimmer, Pat R (BPA) - DIR-7; Mercier, Bryan K (BPA) - EWB-4; Horton, Stacy  
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**Sent:** Tuesday, March 01, 2016 2:53 PM  
**To:** Mercier, Bryan K (BPA) - KEWR-4 <>  
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**Subject:** Annual report on Bonneville's fish and wildlife costs

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- Costs by purpose and emphasis (3A)
- The pie chart of total costs over time (7A). Instead, we will use just the ribbon figure (last year's 7B) and add the totals to the legend of the figure
- Costs of artificial production (3C)

Stacy and Pat, if I missed something, please let me (and Bryan) know. I plan to discuss this with the Public Affairs Committee next Tuesday. I'd like to complete the draft report for the committee to review at the April meeting, then take it to the full Council at the May meeting for release for public comment, then issue the final version in June.

Thanks very much.

John

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

**Henry Lorenzen**  
Chair  
Oregon

**Bill Bradbury**  
Oregon

**Phil Rockefeller**  
Washington

**Tom Karier**  
Washington



**Northwest Power and  
Conservation Council**

**W. Bill Booth**  
Vice Chair  
Idaho

**James Yost**  
Idaho

**Pat Smith**  
Montana

**Jennifer Anders**  
Montana

March 2, 2016

**MEMORANDUM**

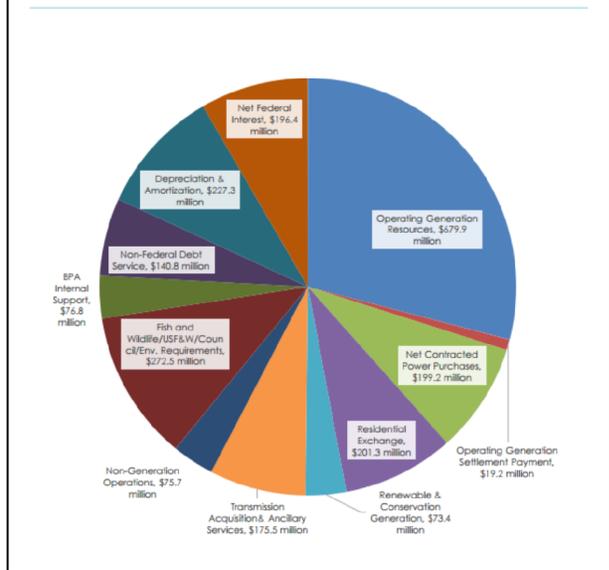
**TO:** Public Affairs Committee  
**FROM:** John Harrison, Information Officer  
**SUBJECT:** 2016 Report on FY 2015 Bonneville Fish and Wildlife costs

After talking with Bonneville staff in preparation for this year's report, I propose changes to certain figures (and corresponding tables) from last year's report. I think these changes will improve the accuracy and usefulness of the report.

**Figure 1B:**

Figure 1B: BPA Power Business Line Costs, FY2014

Total: \$2.34 billion



The purpose of this figure is to show the relationship between fish and wildlife costs and Bonneville's total costs, which are captured in its Power Business Line costs.

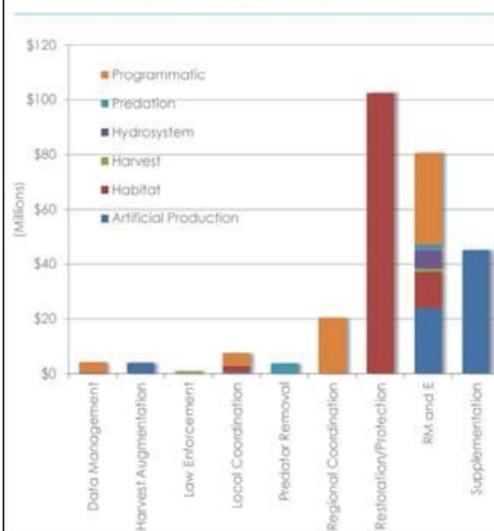
I propose to delete it because:

- Too much detail on other PBL costs in categories most people won't understand
- F&W costs in PBL accounting include different components than we include in our report and so the totals are different (I would briefly explain these in the text of the report)

**Figures 3A, 3B, and 3C:**

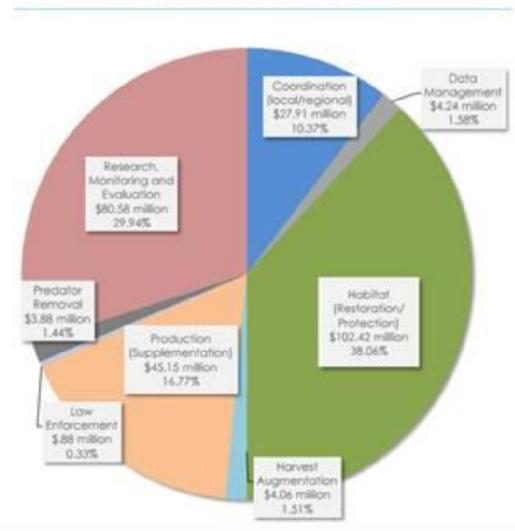
**Figure 3A: Costs by Purpose and Emphasis, FY2014**

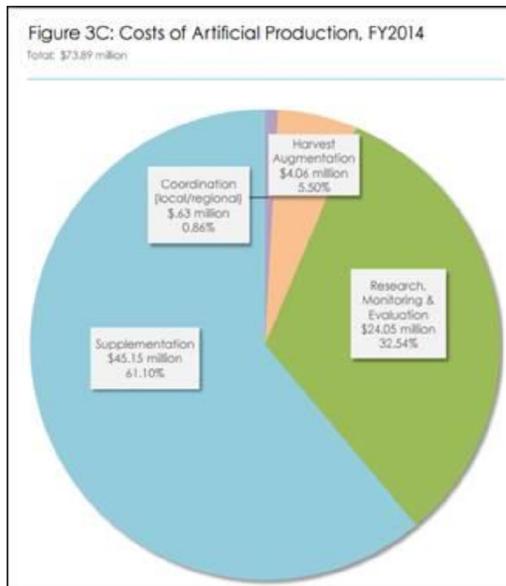
Total: \$269.1 million includes \$37.4 million in obligations to capital projects



**Figure 3B: Costs by Category, FY2014**

Total: \$269.1 million includes \$37.4 million in obligations to capital projects





I propose to delete Figure 3A, revise Figure 3B, and replace Figure 3C with another. The reason is that they are based on the “Purpose and Emphasis” project classification, which Bonneville says does not reflect the program categories clearly or accurately. So here’s what I propose:

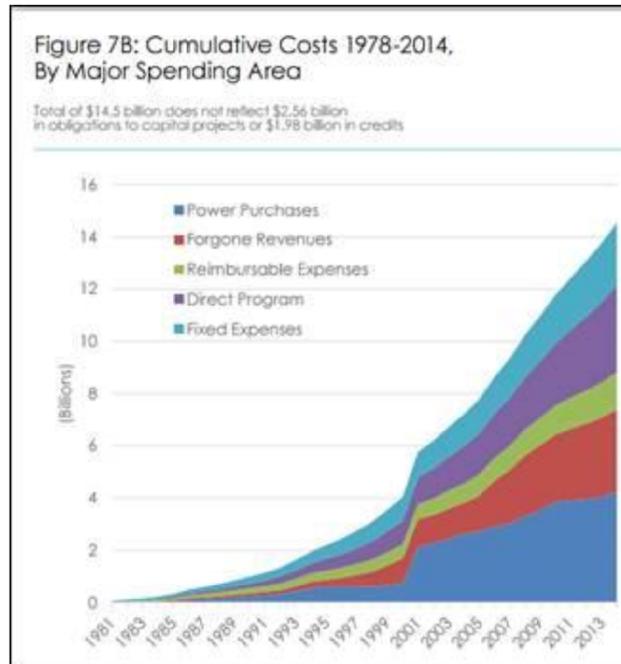
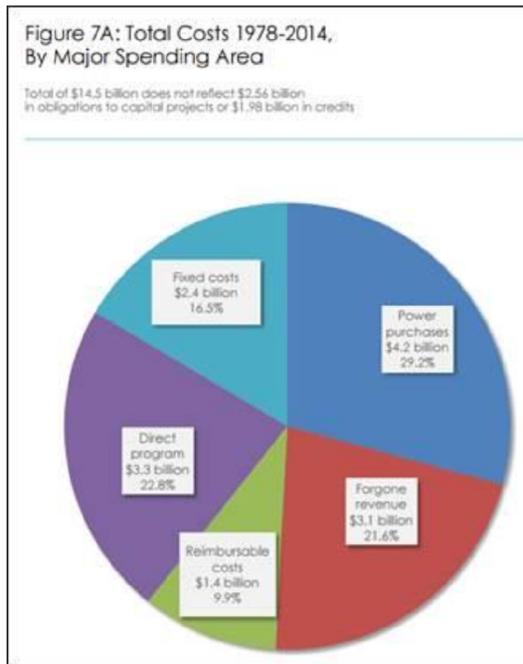
- Delete 3A, as the categories are confusing and, according to Bonneville, not accurate because of the purpose and emphasis categorization.
- 3B provides much of the same information as 3A. The Purpose and Emphasis system lumps Bonneville overhead in the Coordination category; Bonneville recommends breaking it out here for accuracy/clarity. So we would keep this figure but break out coordination into two slices – regional coordination and Bonneville overhead.
- 3C would be replaced with the breakout of RM&E shown in the current 3A and would include RM&E costs for artificial production, habitat, harvest, hydro, predation, and programmatic costs.

**Figures 7A and 7B:**

851 S.W. Sixth Avenue, Suite 1100  
 Portland, Oregon 97204-1348  
[www.nwcouncil.org](http://www.nwcouncil.org)

**Steve Crow**  
 Executive Director

503-222-5161  
 800-452-5161  
 Fax: 503-820-2370



I would like to delete 7A because:

1. 7A and 7B repeat the same information, displayed two ways.
2. The increase over time in the various categories, shown in 7B, is more informative than the pie chart in 7A.
3. I would revise 7B to include the 1978-current year totals for each category in the legend of the figure, which capture the gist of 7A.

Also, the corresponding tables, Table 7A and Table 7B, in the back of the report would be more informative if we showed annual costs for the last 10 years and then lumped all previous years into a single column. So that would be 1978-2005 in one column and then separate columns (same cost categories) for each year from 2006 through 2015.

**From:** Harrison, John  
**Sent:** Tue Mar 29 10:45:34 2016  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Subject:** RE: Annual report on Bonneville's fish and wildlife costs  
**Importance:** Normal

Excellent. Thanks, Sharon.

**From:** Grant, Sharon D (BPA) - EWU-4 [mailto:sdgrant@bpa.gov]  
**Sent:** Tuesday, March 29, 2016 10:29 AM  
**To:** Harrison, John <jharrison@nwcouncil.org>  
**Subject:** RE: Annual report on Bonneville's fish and wildlife costs

John,

Bill has approved the numbers, but asked Pat Zimmer to look at some verbiage. I will let you know when she gives me anything.

Chat soon,

Sharon Grant

**From:** Harrison, John [mailto:jharrison@nwcouncil.org]  
**Sent:** Tuesday, March 29, 2016 9:33 AM  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Subject:** RE: Annual report on Bonneville's fish and wildlife costs

(b)(6)

OK, well, thanks so much for sending these. I imagine there will not be a problem, but if there is just let me know and we can make any changes you need. Having the files now really gives us a head start toward getting a draft document to the PA Committee in April. Yes, it's fine to modify/update the financial data. I assumed you'd do that.  
Thanks again,

John

**From:** Grant, Sharon D (BPA) - EWU-4 [mailto:sdgrant@bpa.gov]  
**Sent:** Tuesday, March 29, 2016 9:07 AM  
**To:** Harrison, John <jharrison@nwcouncil.org>  
**Subject:** RE: Annual report on Bonneville's fish and wildlife costs

John,

I think I can do that, knowing that you may need to make changes. The reviewers may want to make modifications if I have mischaracterized certain data. (b)(6)

(b)(6)

Meanwhile you can let me know if I have forgotten or misinterpreted any of your requests. One item I did not see discussed in the email chain was whether we were going to “modify” last year (FY14) with up-to-date financial information, as we did last year. I assumed the answer was “yes” so I did that. If the answer was “no” I will need to restore the FY14 figures to last year’s results.

Sharon Grant

**From:** Harrison, John [mailto:jharrison@nwcouncil.org]  
**Sent:** Tuesday, March 29, 2016 8:32 AM  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Subject:** RE: Annual report on Bonneville's fish and wildlife costs

Sharon:

It sure would be nice to have them before next week. I certainly understand reviews by the powers that be ... but ... I would love to have the files as tentative or draft so I could get Eric going completing the draft document, and then you could tell me if there are any changes when the Important People are finished.

John

**From:** Grant, Sharon D (BPA) - EWU-4 [mailto:sdgrant@bpa.gov]  
**Sent:** Tuesday, March 29, 2016 7:51 AM  
**To:** Harrison, John <jharrison@nwcouncil.org>  
**Subject:** RE: Annual report on Bonneville's fish and wildlife costs

Hi John,

I have actually completed them (about a week ago) but they are under review by the usual suspects ☺. I asked Bill Maslen’s secretary to help try and get it back to me by the end of the week, or first thing next week. Will that work?

I could give them to you tentatively so you could at least check that everything you need is included since the list was modified. What do you think?

Sharon Grant  
Bonneville Power Administration  
503-230-5215

**From:** Harrison, John [mailto:jharrison@nwcouncil.org]  
**Sent:** Tuesday, March 29, 2016 7:43 AM  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Subject:** RE: Annual report on Bonneville's fish and wildlife costs

Hi, Sharon: Mark Walker asked me yesterday whether I would have a draft of the spending report for our PA Committee to review at its April meeting. Any idea when you will be able to get the spreadsheets to me?

Thank you,  
John

John Harrison  
Northwest Power and Conservation Council  
503-222-5161  
www.nwcouncil.org

----- Original message -----

From: "Grant, Sharon D (BPA) - EWU-4" <sdgrant@bpa.gov>  
Date: 3/15/2016 1:58 PM (GMT-08:00)  
To: "Harrison, John" <jharrison@nwcouncil.org>  
Cc: "Zimmer, Pat R (BPA) - DIR-7" <przimmer@bpa.gov>  
Subject: RE: Annual report on Bonneville's fish and wildlife costs

Does that mean you are deleting 3D?

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**Subject:** RE: Annual report on Bonneville's fish and wildlife costs

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- Delete 3A, as the categories are confusing and, according to Bonneville, not accurate because of the purpose and emphasis categorization.
- 3B provides much of the same information as 3A. The Purpose and Emphasis system lumps Bonneville overhead in the Coordination category; Bonneville recommends breaking it out here for accuracy/clarity. So we would keep this figure but break out coordination into two slices – regional coordination and Bonneville overhead.

- 3C would be replaced with the breakout of RM&E shown in the current 3A and would include RM &E costs for artificial production, habitat, harvest, hydro, predation, and programmatic costs.

Pat, is this right?

John

**From:** Grant, Sharon D (BPA) - EWU-4 [mailto:sdgrant@bpa.gov]  
**Sent:** Tuesday, March 15, 2016 1:26 PM  
**To:** Harrison, John <jharrison@nwcouncil.org>  
**Subject:** FW: Annual report on Bonneville's fish and wildlife costs

Hi John,

I have a question regarding one of the “changes” below, and I thought I would get the lowdown directly from you.

Last year, Table 3D: Direct Program Support shows Program Support by Area, then Emphasis Type, then each divided by BPA and Non-BPA Program Support.

Below you do not reference this table at all, but 3B, the Costs by Category, requires a “new” breakout of coordination costs between Regional (and I assume Local) vs. BPA Overhead.

Since the figures under 3D and 3B would be quite different, I wanted to make sure you were dropping 3D and expanding 3B only.

Sharon Grant  
Bonneville Power Administration  
503-230-5215

**From:** Mercier, Bryan K (BPA) - EWB-4  
**Sent:** Wednesday, March 02, 2016 10:11 AM  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Cc:** Zimmer, Pat R (BPA) - DIR-7  
**Subject:** FW: Annual report on Bonneville's fish and wildlife costs

FYI.

Bryan K Mercier  
503.230.3991

**From:** Harrison, John [mailto:jharrison@nwcouncil.org]  
**Sent:** Wednesday, March 02, 2016 9:42 AM

**To:** Zimmer,Pat R (BPA) - DIR-7; Mercier,Bryan K (BPA) - EWB-4; Horton, Stacy  
**Subject:** FW: Annual report on Bonneville's fish and wildlife costs

All:

Typo below, sorry. PBL costs are/were in Figure 1B, not 2B. We decided to keep 2B (costs of FCRPS BiOp projects – third bullet in the first group below).

John

**From:** Harrison, John  
**Sent:** Tuesday, March 01, 2016 2:53 PM  
**To:** Mercier,Bryan K (BPA) - KEWR-4 <>  
**Cc:** 'Zimmer,Pat R (BPA) - DIR-7' <>; Horton, Stacy <>  
**Subject:** Annual report on Bonneville's fish and wildlife costs

Hi, Bryan:

Pat Zimmer and I spoke recently about changes to the annual report to the Governors on Bonneville's fish and wildlife costs. I then discussed those proposals with Tom Karier and Stacy Horton and we ended up accepting nearly all of the proposals. So now I'm ready to proceed. Here's the list of spreadsheets I would like for the next report:

- Total costs, 1980-2015 (I have a Feb. 1 version of this table so I only need it again if there is a new version)
- Costs by types of species, FY 2015
- Costs of FCRPS BiOp projects, 2008-2015
- Costs associated with ESA-listed fish, FY 2015
- Direct program costs by fund, FY 2015
- Direct program costs by category, FY 2015, with a separate breakout of coordination costs in two categories: Regional coordination and Bonneville overhead
- RM&E costs for artificial production, habitat, harvest, hydro, predation, and programmatic costs, FY 2015
- Costs by province, FY 2015
- Costs by work element location, FY 2015
- Costs by contractor types, FY 2015
- Costs of land purchases for fish and wildlife habitat, FY 20xx-2015 (we will try to get more than one year into the figure)

We agreed to drop:

- Bonneville's PBL costs (2B)
- Costs by purpose and emphasis (3A)
- The pie chart of total costs over time (7A). Instead, we will use just the ribbon figure (last year's 7B) and add the totals to the legend of the figure
- Costs of artificial production (3C)

Stacy and Pat, if I missed something, please let me (and Bryan) know. I plan to discuss this with the Public Affairs Committee next Tuesday. I'd like to complete the draft report for the

committee to review at the April meeting, then take it to the full Council at the May meeting for release for public comment, then issue the final version in June.

Thanks very much.

John

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

---

**From:** Grant, Sharon D (BPA) - EWU-4 <sdgrant@bpa.gov>  
**Sent:** Monday, March 05, 2018 10:40 AM  
**To:** John Harrison  
**Subject:** RE: Annual report on fish and wildlife costs

John,

That sounds good. I will go with the usual plan on the "By Contractor" report.

I'm on tracking to give the set of reports to Bryan Mercier before I leave by COB tomorrow. I'll ask his assistant, Jennifer Yarman ([jayarman@bpa.gov](mailto:jayarman@bpa.gov)), to forward them to you as soon as he reviews and accepts them. If not, I guess you may not get them until I return on the 20<sup>th</sup> (fingers crossed).

Hope you had a nice time away from the office!

Sharon Grant  
Bonneville Power Administration  
503-230-5215

---

**From:** John Harrison [<mailto:jharrison@nwcouncil.org>]  
**Sent:** Monday, March 05, 2018 10:23 AM  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Subject:** [EXTERNAL] RE: Annual report on fish and wildlife costs

Hi, Sharon:

I'm back, and you're about to leave. Regarding the contractor list, I've had no new requests from the Council, and if I do that won't happen until they see the new draft. So for now, let's stick with No. 1 of your two options, which is:

- 1) The list "by Contractor Type" which includes a list under each including 7 years tracking

Any update on the files?

John

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

---

**From:** Grant, Sharon D (BPA) - EWU-4 [<mailto:sdgrant@bpa.gov>]  
**Sent:** Friday, February 23, 2018 9:59 AM  
**To:** John Harrison <[jharrison@nwcouncil.org](mailto:jharrison@nwcouncil.org)>  
**Subject:** RE: Annual report on fish and wildlife costs

That sounds like a plan!

---

**From:** John Harrison [<mailto:jharrison@nwcouncil.org>]  
**Sent:** Friday, February 23, 2018 9:58 AM  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Subject:** [EXTERNAL] Re: Annual report on fish and wildlife costs

OK, Sharon. I'm on vacation until March 5 so we could talk when I get back and before you leave, OK?  
John

John Harrison (b)(6)

----- Original message -----  
From: "Grant, Sharon D (BPA) - EWU-4" <[sdgrant@bpa.gov](mailto:sdgrant@bpa.gov)>  
Date: 2/22/18 4:32 PM (GMT-08:00)  
To: John Harrison <[jharrison@nwcouncil.org](mailto:jharrison@nwcouncil.org)>  
Subject: FW: Annual report on fish and wildlife costs

Hi John,

I'm moving along on the tables for your annual report, and am wondering about the tables you will need (attached my list).

I saw an email dated June 2017 where we discussed something different than what I send last year for the Contractor list. I attached it here but can't remember if this is something different than the file I sent you last year (attached here as well). Is there something else I sent?

My biggest problem right now is the new Pisces (Web – [cbfish.org](http://cbfish.org)) that still has a few quirks, like rounding to the dollar and arriving at an erroneous total. Such is life!! I have a couple of requests for updates, and then I'm going for broke next week. The plan is to at least have the files to Bryan Mercier by March 6 when I leave on vacation. I will ask his admin to forward you the files if I don't get them back before I return (March 20).

Hey, I even have my taxes ready for the Accountant now!

Sharon Grant  
Bonneville Power Administration  
503-230-5215

---

**From:** Grant, Sharon D (BPA) - EWU-4  
**Sent:** Thursday, January 18, 2018 9:13 AM  
**To:** 'John Harrison'  
**Subject:** RE: Annual report on fish and wildlife costs

Hi John,

Good question 😊

I have been thinking hard about it but am now just been able to see the possibility of allotting time. The other part is getting our software folks (for Pisces) to re-figure ESA-listed fish spending to NOT include de-listed fish, in this case

Oregon Chub. Last year didn't go so good for that, but they promise to fix it by next month. Does early to mid-March work for you?

Let check in an a couple of weeks and see if there's anything different you need and how close I'm getting to the final product.

It's like taxes, once January 1 hits, you just can't get it off your mind!

Sharon Grant  
Bonneville Power Administration  
503-230-5215

---

**From:** John Harrison [<mailto:jharrison@nwcouncil.org>]  
**Sent:** Thursday, January 18, 2018 9:06 AM  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Subject:** [EXTERNAL] Annual report on fish and wildlife costs

Hi, Sharon:

It's that time again for me to ask you when you think you might have the numbers for the last fiscal year available for our annual report on fish and wildlife costs.

Cheers,

John

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

**From:** Harrison, John  
**Sent:** Wed Mar 22 08:10:40 2017  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Subject:** RE: BPA F&W Costs for FY2016  
**Importance:** Normal

Thanks! This will give me something to do!

Yes, I have the big spreadsheet direct from finance so I should be good to go. Any questions, I know how to reach you.

John

John Harrison  
Northwest Power and Conservation Council  
503-222-5161  
[www.nwcouncil.org](http://www.nwcouncil.org)

----- Original message -----

From: "Grant, Sharon D (BPA) - EWU-4" <[sdgrant@bpa.gov](mailto:sdgrant@bpa.gov)>  
Date: 3/22/17 7:54 AM (GMT-08:00)  
To: "Harrison, John" <[jharrison@nwcouncil.org](mailto:jharrison@nwcouncil.org)>  
Subject: BPA F&W Costs for FY2016

Hi John,

The reports should now be ready for prime time. Bryan Mercier has given his go-ahead. I assume you have already received the overall costs spreadsheet from Finance. Last year they said you get it straight from them, but if you didn't I can work on that.

I revised anything that changed for FY15, which only leaves one report that's not incorporated into the FY16 tables (Report 4). If you don't need that one, just let me know for next time. I included the Artificial Production report that you asked for after the fact for FY 15.

If I missed anything, just let me know.

Sharon Grant  
Bonneville Power Administration  
503-230-5215

**From:** Lennox,Alexander (BPA) - FTR-2  
**Sent:** Wed Jan 23 07:40:57 2019  
**To:** 'John Harrison'  
**Cc:** Grant,Sharon D (BPA) - EWB-4  
**Subject:** RE: Cost of F&W Actions  
**Importance:** Normal

Whew, I was afraid I forgot something, which wouldn't have surprised my wife and kids.  
Have a good day.  
Alex.

**From:** John Harrison [mailto:jharrison@nwcouncil.org]  
**Sent:** Wednesday, January 23, 2019 7:19 AM  
**To:** Lennox,Alexander (BPA) - FTR-2  
**Cc:** Grant,Sharon D (BPA) - EWB-4  
**Subject:** [EXTERNAL] Re: Cost of F&W Actions

Yes, there are about 10 of them. They come from Sharon Grant. I will copy her.  
John

----- Original message -----

**From:** "Lennox,Alexander (BPA) - FTR-2" <alennox@bpa.gov>  
**Date:** 1/23/19 5:12 AM (GMT-08:00)  
**To:** John Harrison <jharrison@nwcouncil.org>  
**Subject:** RE: Cost of F&W Actions

Are there other tables that you need? The one I sent is updated for FY18 actuals.

**From:** John Harrison [mailto:jharrison@nwcouncil.org]  
**Sent:** Tuesday, January 22, 2019 7:13 PM  
**To:** Lennox,Alexander (BPA) - FTR-2  
**Subject:** [EXTERNAL] Re: Cost of F&W Actions

Sorry. Alex, I meant FY 2018.  
John

----- Original message -----

**From:** "Lennox,Alexander (BPA) - FTR-2" <alennox@bpa.gov>  
**Date:** 1/22/19 5:33 PM (GMT-08:00)  
**To:** John Harrison <jharrison@nwcouncil.org>  
**Subject:** RE: Cost of F&W Actions

Sometime after the close of FY19, next October. Hopefully not quite as late at this update though.

**From:** John Harrison [mailto:jharrison@nwcouncil.org]

**Sent:** Tuesday, January 22, 2019 4:22 PM  
**To:** Lennox,Alexander (BPA) - FTR-2  
**Subject:** [EXTERNAL] RE: Cost of F&W Actions

Thanks for this, Alex. It reminds me to ask when the tables of FY19 costs be available.

John

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

**From:** Lennox,Alexander (BPA) - FTR-2 <alennox@bpa.gov>  
**Sent:** Friday, January 18, 2019 2:17 PM  
**To:** Lennox,Alexander (BPA) - FTR-2 <alennox@bpa.gov>  
**Subject:** Cost of F&W Actions

Attached is the Excel file showing the history of the costs of fish & wildlife actions updated with FY 2018 results. Feel free to contact me if you have questions.

Alex Lennox  
Financial Analyst  
503.230.3460

*“One characteristic of forecasts is that they are nearly always wrong ...”*  
*W.F. Matlack, Statistics for Public Managers, 1993, 301.*

---

**From:** Harrison, John <jharrison@nwcouncil.org>  
**Sent:** Tuesday, January 10, 2017 11:16 AM  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Subject:** RE: Costs report

(b)(6)

(b)(6) Thanks for being on top of the spending report files. Send them when you can; I'm not in a rush. No changes in the files from last year, and I will do my best not to have any! But of course, if a Council member takes a notion ... I will let you know.

John

---

**From:** Grant, Sharon D (BPA) - EWU-4 [<mailto:sdgrant@bpa.gov>]  
**Sent:** Tuesday, January 10, 2017 11:11 AM  
**To:** Harrison, John <jharrison@nwcouncil.org>  
**Subject:** RE: Costs report

(b)(6)

Sharon

---

**From:** Harrison, John [<mailto:jharrison@nwcouncil.org>]  
**Sent:** Tuesday, January 10, 2017 11:03 AM  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Subject:** RE: Costs report

(b)(6)

John

---

**From:** Grant, Sharon D (BPA) - EWU-4 [<mailto:sdgrant@bpa.gov>]  
**Sent:** Tuesday, January 10, 2017 11:00 AM  
**To:** Harrison, John <jharrison@nwcouncil.org>  
**Subject:** RE: Costs report

Hi John,

Yes, I will still be taking care of the updated files. I keep thinking I will get it going "Today" and hasn't yet due to scheduling issues, but, guaranteed, it will be soon. (b)(6)

(b)(6)

Let me know if you have any changes in the wind...

Hope your New Year is going well,

Sharon Grant  
Bonneville Power Administration  
503-230-5215

---

**From:** Harrison, John [<mailto:jharrison@nwcouncil.org>]

**Sent:** Tuesday, January 10, 2017 10:55 AM

**To:** Grant, Sharon D (BPA) - EWU-4

**Subject:** Costs report

Hi, Sharon:

It's that time of year again for me to begin my annual report on fish and wildlife costs in the last fiscal year. Assuming you are my best contact for the updated files, same as last year, could you let me know if this is something you can help me with as you have in the past?

Below is a clip of the Table of Contents from last year's report, just to remind you of the files.

Thanks,

John

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Figure 1B: Fish & Wildlife Costs Compared to Power Services Costs

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Figure 3: Costs of FCRPS BiOp Projects

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Figure 7: Costs for Research, Monitoring & Evaluation

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Figure 10: Costs by Contractor Types

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Figure 11: Costs of Land Purchases for Fish and Wildlife Habitat

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Figure 12: Cumulative Costs by Major Spending Area

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

**From:** Harrison, John  
**Sent:** Wed Feb 08 10:12:20 2017  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Subject:** RE: Costs report  
**Importance:** Normal

Thanks, Sharon. Good luck gathering the numbers! That can't be easy. I included the report among my list of tasks at our PA staff meeting yesterday. I'll let my supervisor know you are working on the numbers. Just get them to me when you can. I don't have a drop-dead date. (b)(6)

(b)(6)

John

John Harrison  
Northwest Power and Conservation Council  
503-222-5161  
www.nwcouncil.org

----- Original message -----

**From:** "Grant, Sharon D (BPA) - EWU-4" <sdgrant@bpa.gov>  
**Date:** 2/8/17 9:36 AM (GMT-08:00)  
**To:** "Harrison, John" <jharrison@nwcouncil.org>  
**Subject:** RE: Costs report

Hi John,

I am still working on it and so haven't submitting to the managers yet. It has been a very busy first of the year (b)(6). Do you have a drop-dead date?

I'm still vetting the numbers; it's never the reports that take the time, it's getting folks to enter the proper information into their contracts (metrics, final budgets, etc.!).

Sharon

**From:** Harrison, John [mailto:jharrison@nwcouncil.org]  
**Sent:** Wednesday, February 08, 2017 9:32 AM  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Subject:** Costs report

Hi, Sharon. Any news from the higher-ups about when you'll be able to release the various costs spreadsheets?

John

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

**From:** Read,Christine L (BPA) - EWB-4  
**Sent:** Thu Mar 28 13:38:06 2019  
**To:** John Harrison  
**Cc:** Jennifer Anders; Stacy Horton  
**Subject:** RE: For next year's report on Bonneville's fish and wildlife costs  
**Importance:** Normal

Hi John & others.

I really simplified the math for the ESA report. The value and how it is split is based on the Work Element budget. There is a detailed, yet complex explanation on page 1 of the report that describes how the \$ is divided up. Have you had a chance to read that? Either it will all make sense or you may fall asleep ☺

As for blocked vs. non-blocked, I really don't know the answer. And yes, it all gets complicated! If you start using lat/long, you will run into similar situations as above.

**From:** John Harrison [mailto:jharrison@nwcouncil.org]  
**Sent:** Thursday, March 28, 2019 1:26 PM  
**To:** Read,Christine L (BPA) - EWB-4  
**Cc:** Jennifer Anders; Stacy Horton  
**Subject:** [EXTERNAL] RE: For next year's report on Bonneville's fish and wildlife costs

Thank you for the explanation, Chris.

I admit to being a little confused. Does Table 1 just arbitrarily split the total contract between the two species (**no, it pro-rates based on the WE budget**)— or evenly between all species when a contract specifies, say, three or more? And in Table 2, isn't the amount spent on a listed species arbitrarily inflated by the money spent on a non-listed species, if any, in the same contract? Or, does Table 2 assume all of the contract money is spent on coho and none on rainbows, even though the contract specifies two species? **It is just a way of looking at it differently.**

I am forwarding your email to Jennifer and also to Stacy Horton, who follows this report, as you know, quite closely. If we do decide to go with Table One, we would need a footnote explaining why the ESA numbers reported in 2020 are different than in earlier reports, and how the money is split between listed and non-listed species.

As for subbasins and blocked vs. non-blocked, I think this could be problematic. We could distinguish between subbasins that are clearly in blocked areas, such as the Spokane, and those that are not, such as the Wenatchee (at least I think there are no blocks there). But some subbasins have both blocked and unblocked areas (and both anadromous and resident fish) – the Willamette, for example. So we would have to figure out how much money is going to both areas within a subbasin for those subbasins that have both blocked

and unblocked areas. I wonder if that is even possible. OK, well, maybe if we had the lat/long for every project, and the lat/long of all the blocks in subbasins that have them, and if we could look at GPS maps of each subbasin that has blocked and unblocked areas, we could figure out if money for each project is going above or below the blocks. But then there are other problems, I sense – in your ESA example below, for example, some of the rainbow money could be for fish above a block and some for fish below, as rainbows might be present in both areas. Again, think of the Willamette.

Oh, my. I'm probably making this too complicated.

Well, for now I am going to forward your email to Jennifer and Stacy for their thoughts. At any rate, this would not be for this year!

John

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

**From:** Read,Christine L (BPA) - EWB-4 <clread@bpa.gov>  
**Sent:** Thursday, March 28, 2019 8:55 AM  
**To:** John Harrison <jharrison@nwcouncil.org>  
**Cc:** Read,Christine L (BPA) - EWB-4 <clread@bpa.gov>  
**Subject:** RE: For next year's report on Bonneville's fish and wildlife costs

Hi John,

I'll try to explain the best I can.

**Page 12 - ESA listed fish:**

The link below is where I get my ESA data. There are 2 tables. Table 1 is "Spending on All Focal Species" and Table 2 is "Spending on ESA-Listed Fish Species". I have been using Table 2 in the Governor's report.

Here is how the tables work:

Contract spends \$100 and has 2 species designated: Coho (threatened) and Rainbow Trout (non-listed). Here is how the \$100 gets distributed in each report:

|      | Table 1 | Table 2 |
|------|---------|---------|
| Coho | \$50    | \$100   |

|               |              |              |
|---------------|--------------|--------------|
|               |              |              |
| Rainbow Trout | \$50         | \$0          |
| <b>TOTAL</b>  | <b>\$100</b> | <b>\$100</b> |

As I said, I've been using table 2 which gives all the credit to the listed species. I can switch to table 1, but it would then show lesser values (at the listed species level) than previously reported (the total is the same; it is just how things are peanut buttered between species). So we just need to be careful. If Jennifer is just interested, but it doesn't need to be in the report, she can view that information at any time with the link below (currently set for 2018 data).

<https://www.cbfish.org/Reports/ReportViewer.aspx?RptName=SpendingOnFocalSpecies&rs%3AFormat=PDF&psFiscalYear=2018&psAccountType=All>

**Page 18 – blocked vs. non-blocked**

At this time, we do not have any criteria in the system to differentiate between blocked & non-blocked. So, either we would need an enhancement, do nothing or work with the information we have (subbasin location?). I'm not very familiar with sub-basins and if they correlate to blocked vs. non-blocked. Do you have anyone there that knows?

Thanks, Chris

**From:** John Harrison [mailto:jharrison@nwcouncil.org]  
**Sent:** Wednesday, March 27, 2019 4:15 PM  
**To:** Read,Christine L (BPA) - EWB-4  
**Subject:** [EXTERNAL] For next year's report on Bonneville's fish and wildlife costs

Hi, Chris:  
 Jennifer Anders, our chair, sent me an email with the following:

- I have a few observations regarding the draft Governor's Report that is out for public comment.
- \* Page 12 lists costs associated with ESA listed fish. Do we have any information relating to costs of non-ESA listed fish?
  - \* Page 18 shows costs by sub-basin. It would be interesting to see this broken out into blocked areas versus non-blocked areas

Are these tables you could generate for next year's report? I thought I would give you a heads-up now rather than spring it on you next January or February!

John

---

John Harrison

Information Officer

Northwest Power and Conservation Council

503-222-5161 (office)

(b)(6) (cell)

**From:** Harrison, John  
**Sent:** Wed Mar 29 18:47:10 2017  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Cc:** Lennox, Alexander (BPA) - FS-2  
**Bcc:** alennox@bpa.gov  
**Subject:** RE: Forgone revenues and power purchases in FY 2016  
**Importance:** Normal

Thanks, Sharon. I've already asked Alex a couple finance questions for the report, and so Alex, here's one more.

Thank you,

John

**From:** Grant, Sharon D (BPA) - EWU-4 [mailto:sdgrant@bpa.gov]  
**Sent:** Wednesday, March 29, 2017 4:53 PM  
**To:** Harrison, John <jharrison@nwcouncil.org>  
**Subject:** RE: Forgone revenues and power purchases in FY 2016

Hi John,

This is mostly likely from Alex Lennox's group (Finance), not Fish & Wildlife. I don't recognize the paragraphs, so I would suggest talking to Alex.

If you want me to talk to him about those numbers, I can sure do that.

Sharon Grant  
Bonneville Power Administration  
503-230-5215

**From:** Harrison, John [mailto:jharrison@nwcouncil.org]  
**Sent:** Wednesday, March 29, 2017 4:48 PM  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Subject:** Forgone revenues and power purchases in FY 2016

Hi, Sharon:

In the piece of text below from the draft report on FY 2016 fish and wildlife costs, the highlighted numbers are from last year's report. The other numbers are for 2016.

Are you the one who can supply the MWa numbers that were used to calculate the FY 16 forgone revenues and power purchases, or would it be Alex Lennox (or someone else)?

Thanks,

John

In Fiscal Year 2016, the overall annual average difference between the two studies was 1,275 average-megawatts. Of this, about 1,024 average-megawatts contributed to the estimated \$76.6 million in forgone revenue. About 251 average megawatts contributed to the estimated \$50.3 million in

replacement power purchases. As noted above, Bonneville receives a credit under Section 4(h)(10)(C) of the Northwest Power Act as reimbursement for the non-power share of fish and wildlife costs that Bonneville pays annually, including a portion of the power purchases. Other costs are not factored into that 4(h)(10)(C) credit, such as forgone revenue, interest on Treasury borrowing, amortization and depreciation of capital projects, reimbursable expenditures, and the Council budget. Non-power purposes such as irrigation, navigation, and flood control comprise a weighted, system-wide average of 22.3 percent of the authorized purposes of the federal dams. The annual credit to Bonneville is based on this percentage.

The 2016 credit was \$72.6 million. In effect, the credit reduces the fish and wildlife costs paid by electricity ratepayers. As noted earlier in this report, the grand total of all fish and wildlife costs incurred by Bonneville in 2016 was approximately \$621.5 million (including foregone revenue). Applying the 4(h)(10)(C) credit reduces Bonneville's total fish and wildlife-related costs, meaning that ratepayers were responsible for \$548.9 million and the federal government was responsible for the nonpower-purposes share of \$72.6 million.

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

**From:** Harrison, John  
**Sent:** Wed May 10 08:38:43 2017  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Subject:** RE: Individual contractors for annual report on F&W costs  
**Importance:** Normal

Hi, Sharon:

The Council member who asked for this table to be restored to the report was looking, I'm pretty sure, at a past report that included seven years of tracking. So, No. 1 below. We may have decided to create No. 2 to look only at one year just to save space and reduce detail, but I'm sure it is No. 1 that we want now. I'm copying Mark Walker, our public affairs director, in case he has a different memory or recommendation. So the attached file called "10-Direct Program Expenditures by Contractor Type" is the one we want. Because it is for FY 2016, I think we now have what we need.

Thank you, Sharon.

John

**From:** Grant, Sharon D (BPA) - EWU-4 [mailto:sdgrant@bpa.gov]  
**Sent:** Tuesday, May 09, 2017 10:14 AM  
**To:** Harrison, John <jharrison@nwcouncil.org>  
**Subject:** RE: Individual contractors for annual report on F&W costs

Don't laugh. Bryan Mercier asked me to put it together so he could take a look at the list. Now that I look at what we have done in the past, I am not perfectly sure what you want. I have attached the List(s) I sent for FY14, which is:

- 1) The list "by Contractor Type" which includes a list under each including 7 years tracking; and
- 2) A list of "other" that only includes one year's expenses.

We have up through this year (FY16) included #1 above that not only is by contractor type, but includes the larger contractors. I also added that file to the attachments.

I feel like I'm missing the point, I think, because the difference is the List #2 which did not include various years of comparison. Is that what you are looking for?

Sharon Grant  
503-230-5215

**From:** Harrison, John [mailto:jharrison@nwcouncil.org]  
**Sent:** Thursday, May 04, 2017 4:05 PM  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Subject:** RE: Individual contractors for annual report on F&W costs

Perfect. Thanks!

**From:** Grant, Sharon D (BPA) - EWU-4 [mailto:sdgrant@bpa.gov]  
**Sent:** Thursday, May 04, 2017 3:00 PM  
**To:** Harrison, John <jharrison@nwcouncil.org>

**Subject:** RE: Individual contractors for annual report on F&W costs

The funny thing is I don't know which Tony! I'm quoting Bryan!

Like I said the report is mostly done, so as soon as I hear, I will get it to you in short order.

Sharon

**From:** Harrison, John [mailto:jharrison@nwcouncil.org]  
**Sent:** Thursday, May 04, 2017 12:59 PM  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Cc:** Walker, Mark  
**Subject:** RE: Individual contractors for annual report on F&W costs

OK, thanks, Sharon. I think we decided against it last year because we thought it was too much detail, but now we have two Council members who have asked for us to reinstate it in the report, if possible.

I appreciate your help. I look forward to hearing from you. I'm copying our Public Affairs Director.

John

p.s. Which Tony do you mean?

**From:** Grant, Sharon D (BPA) - EWU-4 [mailto:sdgrant@bpa.gov]  
**Sent:** Thursday, May 04, 2017 12:51 PM  
**To:** Harrison, John <jharrison@nwcouncil.org>  
**Subject:** RE: Individual contractors for annual report on F&W costs

Hi John,

I have talked to Bryan Mercier since I seem to remember there was some reason that particular report was excluded last year. He said he would talk internally and to Tony and see if that's the way we are going. The report shouldn't take too long to pull it together once I have his approval.

Have a warm day!

Sharon

**From:** Harrison, John [mailto:jharrison@nwcouncil.org]  
**Sent:** Thursday, May 04, 2017 10:29 AM  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Subject:** Individual contractors for annual report on F&W costs

Hi, Sharon:

A couple of our Council members want us to include in our annual report to the governors that long list of individual contractors and the amounts they have received over time. We dropped that last year

because we thought it was too much detail, but now they want it back because, one said, 'it adds transparency' to the program and the report.

Question: Is this something you still can provide?

Thanks,

John

John Harrison

Northwest Power and Conservation Council

503-222-5161

[www.nwcouncil.org](http://www.nwcouncil.org)

**From:** Harrison, John  
**Sent:** Fri Mar 27 09:13:04 2015  
**To:** 'Grant, Sharon D (BPA) - KEWU-4'  
**Subject:** RE: Items for the Governors Report, Part 2  
**Importance:** Normal

Bless you!

Thanks for all of this. I will start through it today and contact you if I have questions.  
John

**From:** Grant, Sharon D (BPA) - KEWU-4 [mailto:sdgrant@bpa.gov]  
**Sent:** Friday, March 27, 2015 9:06 AM  
**To:** Harrison, John  
**Subject:** Items for the Governors Report, Part 2

John,

Here are the remainder of the reports.

Let me know if you have any questions.

Sharon Grant  
Bonneville Power Administration  
503-230-5215

**From:** Grant, Sharon D (BPA) - EWU-4  
**Sent:** Fri Mar 27 11:50:14 2015  
**To:** Harrison, John  
**Subject:** RE: Power Business Line costs  
**Importance:** Normal  
**Attachments:** image001.jpg; image002.png

I think so. Alex is who gave me the 1978-2014 costs table. I wasn't sure where you were getting that from, but Alex is now my contact.

Sharon

**From:** Harrison, John [mailto:jharrison@nwcouncil.org]  
**Sent:** Friday, March 27, 2015 11:49 AM  
**To:** Grant, Sharon D (BPA) - KEWU-4  
**Subject:** Power Business Line costs

Sharon:  
I usually get a spreadsheet on PBL costs. Below is the table from last year's report.  
Who should I ask for it this year? Alex Lennox?  
Thanks,  
John

Table 1D: BPA Power Business Line Costs, FY 2013

| Category  | Total in Millions |
|---|-------------------|
| OPERATING GENERATION RESOURCES                    | 688               |
| OPERATING GENERATION SETTLEMENT PAYMENT           | 22                |
| NON-OPERATING GENERATION                          | -26               |
| NET CONTRACTED POWER PURCHASES                    | 154               |
| RESIDENTIAL EXCHANGE/IOU SETTLEMENT BENEFITS      | 202               |
| RENEWABLE & CONSERVATION GENERATION               | 67                |
| TRANSMISSION ACQUISITION & ANCILLARY SERVICES     | 162               |
| NON-GENERATION OPERATIONS                         | 79                |
| FISH AND WILDLIFE/USF&W/COUNCIL/ENV. REQUIREMENTS | 278               |
| BPA INTERNAL SUPPORT                              | 70                |
| OTHER INCOME, EXPENSES, & ADJUSTMENTS/BAD DEBT    | 0                 |
| NON-FEDERAL DEBT SERVICE                          | 519               |
| DEPRECIATION & AMORTIZATION                       | 223               |
| NET FEDERAL INTEREST                              | 209               |
| <b>TOTAL</b>                                      | <b>2,647</b>      |

Costs in millions; total: \$2.64 billion. This information has been made publicly available by BPA on 3/20/2013 and is consistent with audited actuals that contain Agency approved financial information.

---  
**John Harrison**  
 Information Officer  
 Office 503-222-5161 | Mobile (b)(6)  
[www.nwcouncil.org](http://www.nwcouncil.org)



**From:** Yarman, Jennifer A (CONTR) - EW-4  
**Sent:** Fri Mar 16 10:47:02 2018  
**To:** 'John Harrison'  
**Cc:** Grant, Sharon D (BPA) - EWU-4; Lennox, Alexander (BPA) - FTR-2  
**Subject:** RE: One missing file for the costs report  
**Importance:** Normal

Hi John,

The missing report you're looking for is the one that comes directly from Alex Lennox in BPA's Finance department. I asked Alex what the status was on his report and he has a few more things to review before he can send it over, please check in with him for status or other questions.

Best regards,

*Jennifer Yarman*

Jennifer Yarman  
(CONTR) Salient CRGT  
Administrative Services Assistant III | Fish and Wildlife EW-4  
Bonneville Power Administration | Department of Energy  
bpa.gov | V: 503-230-4981 | F: 503-230-4563 | E: jayarman@bpa.gov

*Please consider the environment before printing this email*

**From:** John Harrison [mailto:jharrison@nwcouncil.org]  
**Sent:** Friday, March 16, 2018 10:14 AM  
**To:** Yarman, Jennifer A (CONTR) - EW-4  
**Subject:** [EXTERNAL] One missing file for the costs report

Hi, Jennifer:  
Thanks for sending the files. One is missing, the first one. I've attached last year's for reference.  
Was the update of this file among those reviewed by Bryan?  
Thanks,  
John

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

**From:** Lennox,Alexander (BPA) - FTR-2  
**Sent:** Fri Sep 22 09:53:55 2017  
**To:** Grant,Sharon D (BPA) - EWU-4; John Harrison  
**Subject:** RE: Question about a table  
**Importance:** Normal

Jon,

The numbers are not additive. The problem is the estimate of the rate impact didn't use the big spreadsheet. Instead they started with the rates model in which we clearly identify the direct F&W costs (e.g. BPA's program, half of the Council budget, and amortization of the debt, etc.). These costs like up with the big spreadsheet. However, the model does not include any indication of the indirect costs, those that are parts of larger spending like the Corps/Reclamation O&M, that are in the big spreadsheet. So, when they estimated the impact on rates, they were only using a subset of the costs that you find in the spreadsheet. Once they realized what happened, the correction was made.

I hope this helps. Let me know if you have other questions.  
Alex.

**From:** Grant,Sharon D (BPA) - EWU-4  
**Sent:** Friday, September 22, 2017 9:24 AM  
**To:** John Harrison  
**Cc:** Lennox,Alexander (BPA) - FTR-2  
**Subject:** RE: Question about a table

Hi John,

I think I answered my own question and can now direct you more clearly to your answer. The report (Total Cost of BPA Fish & Wildlife Actions) to which you are referring came from Alexander Lennox in BPA Finance. I have copied him here to bring this to his attention. I assume Alex will be able to answer your question more correctly than I.

Sharon Grant  
Bonneville Power Administration  
503-230-5215

**From:** Grant,Sharon D (BPA) - EWU-4  
**Sent:** Friday, September 22, 2017 9:01 AM  
**To:** 'John Harrison'  
**Subject:** RE: Question about a table

John,

I do have one question, though, maybe because it has been a while...  
Which file are you referring to with the reference to \$621M (line 29, Col AL, "big spreadsheet")? I can't pinpoint what that would be.

Inquiring minds want to know ☺

Sharon

**From:** John Harrison [mailto:jharrison@nwcouncil.org]  
**Sent:** Friday, September 22, 2017 8:35 AM  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Subject:** [EXTERNAL] Question about a table

Hi, Sharon:  
Don't worry, I'm not writing about next year's cost report!

You may have heard that Bonneville sent a comment on my draft report on fish and wildlife costs that said costs associated with two programs had been left out of the initial calculation inadvertently, and that these added to the total costs. Specifically, the comment, which regarded the percentage of costs attributable to fish and wildlife in the preference rate, was:

Unfortunately, the 25 percent figure excludes some fish costs contained in the O&M budgets of the Bureau of Reclamation and U.S. Army Corps of Engineers (\$55 million) along with additional depreciation and amortization above and beyond what is earmarked in the Cost of Service Analysis as fish-related (\$112 million). Omission of these costs led to an understatement by Bonneville, which made it into the Council's draft report.

Those two elements add \$167 million to the total. Would this have raised the total from \$621 million (Line 29 Column AL of the big spreadsheet you sent me initially) to (621 + 167) \$785 million? I wondered about that during the comment period, but because changing the total would have meant redoing nearly every figure and table in the report, I didn't make any changes – other than the language change Bonneville requested.

If in fact there is a new total (\$785 million), I'm writing to ask whether that has been captured in the spreadsheet. When I open my version, I'm prompted to update various things but, of course, I can't because I can't connect to Bonneville's internal system. If there is an updated version, could you send it to me for my files?

Thank you.

John

---

John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

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**From:** Harrison, John <jharrison@nwcouncil.org>  
**Sent:** Tuesday, May 10, 2016 10:39 AM  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Subject:** RE: Question about costs

No, not necessary, Sharon. We plan to release the draft report for public comment tomorrow, for a month. So I can talk to Alex about it when he's back. I assume he won't be gone that long. It's a very obscure point and a question that I think might be classic apples and oranges (how do you represent lost revenue on a chart about cash expenditures?).

Let's let it go for now. Thanks for your quick reply!

John

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**From:** Grant, Sharon D (BPA) - EWU-4 [<mailto:sdgrant@bpa.gov>]  
**Sent:** Tuesday, May 10, 2016 10:35 AM  
**To:** Harrison, John <[jharrison@nwcouncil.org](mailto:jharrison@nwcouncil.org)>  
**Subject:** RE: Question about costs

John,

The Power side is out of my realm of expertise, unfortunately. My other contact for that department is Stephanie Adams. I see she also has an out-of-office on through 5/16/16. John's out-of-office says to contact his manager, Mary Hawken ([mahawken@bpa.gov](mailto:mahawken@bpa.gov)). Would you like me to do that for you?

Sharon Grant  
503-230-5215

---

**From:** Harrison, John [<mailto:jharrison@nwcouncil.org>]  
**Sent:** Tuesday, May 10, 2016 10:25 AM  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Subject:** Question about costs

Hi, Sharon:

I sent the email below to Alex Lennox and got a bounceback that he is out of the office. Do you know the answer to Henry's question, or whom I should ask about it?

Thanks,  
John

-----  
Hi, Alex:

In the figure below, which you sent me, I've been playing around with some very simple messaging for the headline, as you can see (doing this in PPT, not Adobe, as I'm at the Council meeting in Boise). Henry Lorenzen, our chair, asked whether the \$197 million in forgone revenue could be shown or indicated in this figure, perhaps with another piece of the pie, with an explanation that this represents revenue that was not made. Henry wonders whether the lack of that income means that rates are higher to make up the loss (the result of secondary sales that were not made). He suggests maybe a dotted line to define that part of the total costs in the pie chart that are not cash expenditures – actually revenue that did not contribute to the \$560 million revenue requirement. Does that make sense? Or is there another way you can think of that we could show the lost secondary sales in some way, even though this pie chart shows, essentially, cash expenditures and not income? Or does this just not make sense?

Thanks,



---

**From:** Read,Christine L (BPA) - EWB-4 <clread@bpa.gov>  
**Sent:** Friday, March 01, 2019 8:08 AM  
**To:** Lane,Jeffrey W (BPA) - EWB-4; Read,Christine L (BPA) - EWB-4; 'John Harrison'  
**Subject:** RE: Question about the total expense budget for FY 18

Hi John,

Jeff has asked I reply to your questions. The difficult part is the mixing of expense & capital.

When I do the tables for you, it is a combination of expense & capital expenditures. In the fish costs table (the one you get directly from Finance), they separate out expense & capital, but don't necessarily subtotal them. As a reminder, it was:

|                       |  |
|-----------------------|--|
| Line 4 – F&W Capital: | \$30.7M  |
| Line 9 – F&W Expense: | \$258.7M (\$10.7M/G&A,CRSO-EIS; \$248M/integrated program) |
| <b>TOTAL:</b>         | <b>\$289.4M</b>  |

In the tables I provide you, some total to \$289.4M (if the table is referencing the entire program), some are less (if the table is referencing a portion of the program such as just hatchery or RM&E).

Given the figures above, maybe we need to specify in Jeff's comment that it is speaking only to the expense side.

Secondly, on the overhead question. The cbfish values you referenced below all pertain to budget. Budget is the ceiling we can contract in a 12-month period. At the fund level, it really is an estimate based on risk. The reports I give to you are Expenditures – that is what we actually spend in the Federal FY (October-September) including accruals. They will never match up since all of our contracts are cost reimbursement, so we plan higher to spend at the target value and all of our contracts start in different months of the year (so there is spending in multiple FY's).

I use aspects of cbfish to create this report - I pull the data, add to it, then slice & dice based on the needs on each table. In the category table, I do not sort that by fund, it is by project. For example, Chief Joseph Hatchery is under Production/Supplementation. If we were to give it \$1 or \$100k from our OH for any purpose, it would still be categorized as Production/Supplementation. That is why the notes following each table are so important.

I hope this helps!

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**From:** Lane,Jeffrey W (BPA) - EWB-4  
**Sent:** Thursday, February 28, 2019 4:56 PM  
**To:** Read,Christine L (BPA) - EWB-4  
**Subject:** FW: Question about the total expense budget for FY 18

Hi Chris,

Do you have time to answer John Harrison's questions below?

Thanks.

**Jeff Lane**

Manager | Business Ops Support (EWB), Fish & Wildlife

**BONNEVILLE POWER ADMINISTRATION**

[jwlane@bpa.gov](mailto:jwlane@bpa.gov) | Ph 503-230-3064

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**From:** John Harrison [<mailto:jharrison@nwcouncil.org>]

**Sent:** Thursday, February 28, 2019 3:23 PM

**To:** Lane, Jeffrey W (BPA) - EWB-4

**Cc:** Stacy Horton

**Subject:** [EXTERNAL] Question about the total expense budget for FY 18

Jeff: I'm struggling a bit because I don't see things lining up in terms of total costs. In the paragraph you sent about the spill surcharge you wrote (my highlighting):

The FY 2018 fish and wildlife budget was reduced by \$20 million when compared to the rate case forecast, from \$277 million to \$256 million. Actual direct spending in FY 2018 ended up at \$248 million. At the same time, though, BPA changed the attribution of corporate overhead costs and assigned more to fish & wildlife. This was done to better reflect how corporate organizations support fish and wildlife which ensured that these costs would be captured in the calculation of the 4(h)(10)(C) credit. **As a result, the total spending appears as \$258 million in the total cost table.**

Which is true. Here is Line 9 from that spreadsheet:

| <b>PROGRAM EXPENSES</b>                     |       |       |       |    |
|---|-------|-------|-------|----|
| <b>BPA DIRECT FISH AND WILDLIFE PROGRAM</b> | 199.6 | 221.1 | 248.9 | 23 |

But then in the spreadsheets Chris sent, direct program expense spending is more -- \$289,372,127. For example:

| Direct Program Expenditures by Category, FY2018 |                      |                      |                      |                     |
|---|----------------------|----------------------|----------------------|---------------------|
| Category  | 2011                 | 2012                 | 2013                 | 2014                |
| Coordination (Local/Regional)                   | \$25,185,796         | \$28,135,259         | \$30,074,160         | \$13,294,30         |
| Coordination (BPA Overhead) <sup>3</sup>        |                      |                      |                      | \$14,616,14         |
| Data Management                                 | \$4,319,007          | \$4,130,748          | \$3,980,351          | \$4,244,80          |
| Habitat (Restoration/Protection)                | \$123,373,947        | \$122,609,228        | \$118,831,309        | \$102,422,79        |
| Harvest Augmentation                            | \$3,599,302          | \$4,429,624          | \$4,077,995          | \$4,062,87          |
| Production (Supplementation)                    | \$61,846,889         | \$53,165,835         | \$50,024,766         | \$45,146,279        |
| Law Enforcement                                 | \$805,250            | \$853,122            | \$750,780            | \$883,67            |
| Predator Removal                                | \$2,983,190          | \$3,558,732          | \$3,309,064          | \$3,879,43          |
| Research, Monitoring and Evaluation             | \$89,101,514         | \$89,527,224         | \$80,053,469         | \$80,583,80         |
| G&A   |                      |                      |                      |                     |
| CRSO EIS  |                      |                      |                      |                     |
| <b>Total</b>                                    | <b>\$311,214,895</b> | <b>\$306,409,772</b> | <b>\$291,101,892</b> | <b>\$269,134,11</b> |

And to further complicate matters, regarding overhead, CBFish reports, for FY 2018, this:

Funds - Show me funds with  
 FY2018 - Expense ▾

| Fund                             | Available Budget | Planning Budget % | Planning Budget | Maximum Budget % | Maximum Budget | Work (proje |
|----------------------------------|------------------|-------------------|-----------------|------------------|----------------|-------------|
| PROGRAM                          | \$310,000,000    | 0.00%             | \$310,000,000   | 1.00%            | \$313,100,000  |             |
| BiOp FCRPS 2008 (non-Accord)     |                  |                   | \$100,000,000   | 10.00%           | \$110,000,000  |             |
| BPA non-Overhead Support         |                  |                   | \$1,500,000     | 50.00%           | \$2,250,000    |             |
| BPA Overhead                     |                  |                   | \$16,000,000    | 0.00%            | \$16,000,000   |             |
| BPA Overhead - Technical Support |                  |                   | \$2,000,000     | 15.00%           | \$2,300,000    |             |

CBFish also reports the 2018 expense **planning** budget total as \$274,313,041, the Expense **maximum** budget total as \$311,267,786, and the Expense **working** budget total as \$285,001,064.

Help.

John

---

John Harrison  
 Information Officer  
 Northwest Power and Conservation Council  
 503-222-5161 (office)  
 (b)(6) (cell)

---

**From:** Read,Christine L (BPA) - EWB-4 <clread@bpa.gov>  
**Sent:** Tuesday, September 25, 2018 5:01 PM  
**To:** Grant,Sharon D (BPA) - EWB-4; Stacy Horton; John Harrison  
**Subject:** RE: Question on BPA budget contact

I will also add, the “Budget History & Forecast report” you mention below is only looking at the Project budgets. That is, the highest value we can contract for a 12-month cycle regardless of when the contract starts. Sometimes, we will do a 1,2,3+ month extension to finish something, but generally speaking, it is for a 12-month period. Again, this is different than the values you see in the Gov report which represent cash out the door, sum of all our checks, however you want to describe us spending the money.

In Sharon’s example below, the expenditures closely match the budget. That means the contracts under this project spend most or all of the budget. Plus, there are not major jumps in work. In other projects, you may see those values differ – it is based on timing, type of work, etc.

>>>>> >>>>> >>>>>  
**Christine Read**  
Program Analyst  
BPA | F&W Division  
clread@bpa.gov  
(503) 230-5321

---

**From:** Grant,Sharon D (BPA) - EWB-4  
**Sent:** Tuesday, September 25, 2018 4:00 PM  
**To:** Stacy Horton; John Harrison  
**Cc:** Read,Christine L (BPA) - EWB-4  
**Subject:** RE: Question on BPA budget contact

Stacy,

The Project Budget is an amount determined for all project expenditures which is set ahead of time, and possibly modified along the way, for a given fiscal year (FY). The contracts and other expenditures (internal costs such as property purchase costs or PIT tags) must be kept within the Budget guidelines for everything that starts that FY, even if the contract starts 11 months into the FY. The **Budget History and Forecast** report that you mentioned is such a report.

For example, 1982-013-01 has the following for FY17:

|   |           |  |
|---|-----------|--|
| FY 17 <b>Project Budget</b> (BPA decision) (The Budget History and Forecast Report will use this number)                  | \$374,313 | Allocations to the project from the various funds, in this case it is all BiOp FCRPS 2008 (non-Accord).  |
| Actual FY17 <b>Project Expenditures</b> /invoices paid plus accruals (strictly based on costs within the FY)              | \$364,147 | Expenditures attributed to the project in the specific time frame of the FY (Oct. to Sept.) <b>Used in Governors Report</b> , without regard to the contract’s date range. |
| <b>Contracts</b> /internal invoiced <b>Expenditures</b> for a project which start in FY17 as of date of inquiry (9/25/18) | \$374,273 | In this case, only covers invoices for Contract 74269 (1/1/17 to 12/31/17) and Contract  |

|   |           |   |
|---|-----------|---|
|   |           | 75495 (4/1/17 to 3/31/18). It does not take into account when the invoice was paid or for what time period.   |
| <b>Contract Budgets</b> started in FY17, if <i>Closed</i> , \$ will not change but if still unclosed ( <i>Issued</i> ) can still be modified, but in this case all contracts are closed | \$374,273 | This would also be different if a contract was not yet closed. At closing the contract total is reduced to total invoiced expenditures. This represents the contracted value. |

Maybe important words to distinguish here are Budget vs. Expenditures, and Project vs. Contract when dealing with how amounts are determined.

Your Costs Report (we usually call it the Governors Report) only deals with actual costs that have occurred during that specific fiscal year, along with accrual entries that are trued up the following year.

Let me know if I can offer any further explanation or reporting assistance with this. And hopefully I didn't create more questions than answers!

Sharon Grant  
503-230-5215

---

**From:** Stacy Horton [mailto:SHorton@NWCouncil.org]  
**Sent:** Tuesday, September 25, 2018 9:09 AM  
**To:** Grant, Sharon D (BPA) - EWB-4; John Harrison  
**Cc:** Read, Christine L (BPA) - EWB-4  
**Subject:** [EXTERNAL] RE: Question on BPA budget contact

Sharon,  
Thank You for the response, I may have some additional follow-up questions beyond my question below.  
One question I have is about the 'portfolio' accounts- aren't these also 'actuals' for past data, and then I understand is forecast for anything beyond the current fiscal year. Is that correct? I want to be sure I understand what the portfolio data is representing.  
Here's how BPA describes the Portfolio data:

**Budget History and Forecast**  
**Description:** View historical and forecast project budgets for a maximum of ten contiguous fiscal years.  
**Dimensions:** Project, Account Type (Expense, Capital), Budget, Fiscal Year

Thanks again for your assistance!  
Stacy

---

**From:** Grant, Sharon D (BPA) - EWB-4 <sdgrant@bpa.gov>  
**Sent:** Tuesday, September 25, 2018 8:06 AM  
**To:** John Harrison <jharrison@nwcouncil.org>; Stacy Horton <SHorton@NWCouncil.org>  
**Cc:** Read, Christine L (BPA) - EWB-4 <clread@bpa.gov>  
**Subject:** RE: Question on BPA budget contact

Hi John and Stacy,

I asked our Accord fund guru to give me her take on your questions, without researching a specific number for a specific project.

From Chris Read:

The clear difference is the Cost report (Governors report) uses “actuals & accruals”, therefore what we spent during the period of October-September of each year.

The accord documents are in terms of “budgets”, that is what is the ceiling amount we can contract that given year. However, the accords have the ability to shift funds around, so I’m about 99.99% sure that the accord contract values will never match the original budgets identified in the accord documents.

The 2nd question of how we handle multiple proponents – generally speaking, we could break it down by the contracts. However if you are doing a portfolio by project, there is no easy way. I guess it all depends on the request and how precise (you) want the returned data; easy way would be to keep the multiple listed sponsors. The hard way would be to break down each project by who BPA is contracting with and pro-rate the budget that way (therefore multiple lines for each project, each year).

It is true we have to make sure we are comparing “apples to apples” in terms of whether we are looking at actuals vs. planned budgets, and whether something spans multiple fiscal years (i.e., contract cost) vs. collecting monthly costs to a project over a specific fiscal year (October to September).

Do you want us to look at specific data and determine why they are different? Do you have specific questions to determine whether the comparisons are accurate or are looking at costs differently? I would be glad to look those over.

Otherwise, you can call me, 503-230-5215. If you want to talk to Chris Read, our Accords analyst, her number is 503-230-5321.

Sharon Grant  
Fish & Wildlife  
Bonneville Power Administration

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**From:** John Harrison [<mailto:jharrison@nwcouncil.org>]  
**Sent:** Monday, September 24, 2018 4:43 PM  
**To:** Stacy Horton  
**Cc:** Grant, Sharon D (BPA) - EWB-4  
**Subject:** [EXTERNAL] RE: Question on BPA budget contact

Thanks, Stacy. I will send your questions to my source for the costs report numbers, Sharon Grant. I have found her very knowledgeable and easy to work with. Let’s hope she can shed some light on the discrepancies.

John

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John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)

(b)(6) (cell)

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**From:** Stacy Horton  
**Sent:** Monday, September 24, 2018 4:37 PM  
**To:** John Harrison <[jharrison@nwcouncil.org](mailto:jharrison@nwcouncil.org)>  
**Subject:** Question on BPA budget contact

Hi John,  
I read your article on n. pike earlier today- very informative and enjoyable read!!!! I really enjoyed it!

I am also developing a spreadsheet of all BPA project/proponent budgets from 2004 thru 2019, and have added in some columns for the Accord extensions through 2022.

When I compared my budget totals to the 'Cost Report', it became clear there must be some differences in data used. My source for data is [cbfish.org](http://cbfish.org), **Expense** portfolios 2004-2014, and 2015-2019, and the Accord numbers out of proposed Accord extensions, posted by BPA on their public outreach site. So all of my numbers originate from BPA, but do not align with the totals used by the Cost Report. Another issue is how BPA handles project budget divisions where multiple partners are listed as project proponents- divide equally amongst listed proponents? Other?

Can you share your BPA contact on the 'Cost Report', or have that person give me a call?

Thanks John!  
Stacy

Stacy Horton  
Policy Analyst, Biologist  
668 N. Riverpoint Blvd, Suite 133  
Spokane, WA 99202  
509-828-1329  
[shorton@nwcouncil.org](mailto:shorton@nwcouncil.org)



**From:** Grant, Sharon D (BPA) - EWU-4  
**Sent:** Wed May 02 14:00:23 2018  
**To:** Harrison, John (jharrison@nwcouncil.org)  
**Subject:** RE: Some questions on costs  
**Importance:** Normal

Hi John,

I have written in answers below to keep them with the questions. Let me know if there are further questions.

Sharon Grant  
Bonneville Power Administration

**From:** John Harrison [mailto:jharrison@nwcouncil.org]  
**Sent:** Tuesday, May 01, 2018 3:10 PM  
**To:** Grant, Sharon D (BPA) - EWU-4  
**Subject:** [EXTERNAL] Some questions on costs

Hi, Sharon:

We're going to release the costs report for public comment next week, and one of my eagle-eyed colleagues had some questions, to wit:

Fig. 3: Why the range of 2010-2017? Don't we have Bi-Op costs going back further in time?

We usually keep seven years of data on the reports and let previous years drop off. I can add earlier years back in if you want since they are already available from previous years. Just let me know.

Fig. 4: Should Oregon Chub now read as delisted? I saw the footnote- am referring to the category in the figure. For example: Chub, Oregon (endangered) Should this now read Chub, Oregon (delisted)?

That sounds like it would be a good change. I can change and re-send my file if you want. Next year I am not going to leave it on the report, but wanted to recognize this time that this is now delisted...unless there is a request to keep it on the list for a while.

Fig. 5 and Fig. 6A: In the figures and supporting data tables, BPA's overhead is \$17M in one, and \$15M in the other.

Fig 5, by Fund. The Fund report categorizes funding differently, based on contributing funds. Here we categorized BPA Overhead as both types of funding:

**BPA Overhead** (only Project 2003-48-00, Internal Support) (\$14,542,931); and

**BPA Overhead – Technical Support** (various projects) (\$2,023,130).

Fig 6A, by Category. The footnote says "BPA's database identifies projects by their "Purpose" (general goal) and "Emphasis" (primary type of work, e.g., habitat restoration). BPA does not track its project management overhead against individual projects or contracts, so there is no easy or accurate way to allocate BPA overhead to specific purposes or emphases. Thus, in the above report, BPA includes its staffing to manage the 600-plus contracts in its fish and wildlife program in the category

identified as Coordination (BPA Overhead), and its direct technical services contracts for Data Management and RM&E in those respective categories. “

**The bottom line:** Fig. 5 includes Internal Support plus Technical Support, whereas Fig. 6 only includes Internal Support. The Technical Support is categorized under the appropriate category identified by the project.

**Fig. 7 ‘Programmatic’ needs a definition.**

The term “Programmatic” is used to describe projects whose purpose is broader than a specific project or region, but falls under the larger umbrella of the overall Fish and Wildlife *Program*. Examples within the RM&E emphasis are projects such as Coded Wire Tag, Climate Change Impacts, ISEMP, CSS, and Fish Passage Center.

**Fig. 10: What is semi government? On the tab for this one- again, a different number for BPA’s overhead.**

The Local/Semi Government is used to include city, county, soil and water conservation districts, and watershed council entities in one category. If you want a copy of the list, just let me know. As far as the BPA overhead category, here it includes BPA overhead costs, but also includes items that are non-contracted project costs such as PIT tag costs, utilities, advertising, NEPA, and expenses involving ancillary land acquisition expenses.

Help!  
Thanks,  
John

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John Harrison  
Information Officer  
Northwest Power and Conservation Council  
503-222-5161 (office)  
(b)(6) (cell)

**From:** Read,Christine L (BPA) - EWB-4  
**Sent:** Wed Sep 26 10:45:21 2018  
**To:** 'Stacy Horton'; Grant,Sharon D (BPA) - EWB-4; John Harrison  
**Subject:** RE: Question on BPA budget contact  
**Importance:** Normal  
**Attachments:** image001.jpg; image002.png

No, there isn't a specific report. To get that data, you would just go to the link below. To get the years you want, click customize. To see FY spending, click on "expenditures". Spending is though the prior month (so since we are in September, you will see expenditures through August; September expenditures will show up mid-October).

This portfolio includes all projects except those that are proposed. Complete/closed are needed in the event you look up prior years.

<https://www.cbfish.org/Portfolio.mvc/WorkingBudgets/2210>

**From:** Stacy Horton [mailto:SHorton@NWCouncil.org]  
**Sent:** Wednesday, September 26, 2018 9:07 AM  
**To:** Read,Christine L (BPA) - EWB-4; Grant,Sharon D (BPA) - EWB-4; John Harrison  
**Subject:** [EXTERNAL] RE: Question on BPA budget contact

Christine,  
Thanks again! Is there a budget-to-actuals report on cbfish?  
Stacy

**From:** Read,Christine L (BPA) - EWB-4 <clread@bpa.gov>  
**Sent:** Wednesday, September 26, 2018 9:01 AM  
**To:** Stacy Horton <SHorton@NWCouncil.org>; Grant,Sharon D (BPA) - EWB-4 <sdgrant@bpa.gov>; John Harrison <jharrison@nwcouncil.org>  
**Subject:** RE: Question on BPA budget contact

The whole report is just about budgets. The value also includes any increases (from BOG, accord rules, other increases).

**From:** Stacy Horton [mailto:SHorton@NWCouncil.org]  
**Sent:** Wednesday, September 26, 2018 8:59 AM  
**To:** Read,Christine L (BPA) - EWB-4; Grant,Sharon D (BPA) - EWB-4; John Harrison  
**Subject:** [EXTERNAL] RE: Question on BPA budget contact

Christine –  
Thank You for the information! I now understand the differences in the data- and they are both really useful tools. I just want to be clear on one point- for the "Budget History & Forecast report" – for a

project that lists a budget of 'X' in 2005- is the budget number represented the project budget at the time budgeted in 2005? Or does the 2005 'X' value represent an 'actual' budget expenditure?  
Thank You for your assistance!  
Stacy

**From:** Read,Christine L (BPA) - EWB-4 <clread@bpa.gov>  
**Sent:** Tuesday, September 25, 2018 5:01 PM  
**To:** Grant,Sharon D (BPA) - EWB-4 <sdgrant@bpa.gov>; Stacy Horton <SHorton@NWCouncil.org>; John Harrison <jharrison@nwcouncil.org>  
**Subject:** RE: Question on BPA budget contact

I will also add, the "Budget History & Forecast report" you mention below is only looking at the Project budgets. That is, the highest value we can contract for a 12-month cycle regardless of when the contract starts. Sometimes, we will do a 1,2,3+ month extension to finish something, but generally speaking, it is for a 12-month period. Again, this is different than the values you see in the Gov report which represent cash out the door, sum of all our checks, however you want to describe us spending the money.

In Sharon's example below, the expenditures closely match the budget. That means the contracts under this project spend most or all of the budget. Plus, there are not major jumps in work. In other projects, you may see those values differ – it is based on timing, type of work, etc.

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**Christine Read**

Program Analyst  
BPA | F&W Division  
clread@bpa.gov  
(503) 230-5321

**From:** Grant,Sharon D (BPA) - EWB-4  
**Sent:** Tuesday, September 25, 2018 4:00 PM  
**To:** Stacy Horton; John Harrison  
**Cc:** Read,Christine L (BPA) - EWB-4  
**Subject:** RE: Question on BPA budget contact

Stacy,

The Project Budget is an amount determined for all project expenditures which is set ahead of time, and possibly modified along the way, for a given fiscal year (FY). The contracts and other expenditures (internal costs such as property purchase costs or PIT tags) must be kept within the Budget guidelines for everything that starts that FY, even if the contract starts 11 months into the FY. The **Budget History and Forecast** report that you mentioned is such a report.

For example, 1982-013-01 has the following for FY17:

|   |           |   |
|---|-----------|---|
| FY 17 <b>Project Budget</b> (BPA decision) (The Budget History and Forecast Report will use this number)  | \$374,313 | Allocations to the project from the various funds in this case it is all BiOp FCRPS 2008 (non-Accord).  |
| Actual FY17 <b>Project Expenditures</b> /invoices paid plus accruals (strictly based on costs within the FY)  | \$364,147 | Expenditures attributed to the project in the specific time frame of the FY (Oct. to Sept.) <b>Used in Governors Report</b> , without regard to the contract's date range.                          |
| <b>Contracts</b> /internal invoiced <b>Expenditures</b> for a project which start in FY17 as of date of inquiry (9/25/18)   | \$374,273 | In this case, only covers invoices for Contract 74269 (1/1/17 to 12/31/17) and Contract 75495 (4/1/17 to 3/31/18). It does not take into account when the invoice was paid or for what time period. |
| <b>Contract Budgets</b> started in FY17, if <i>Closed</i> \$ will not change but if still unclosed ( <i>Issued</i> ) can still be modified, but in this case all contracts are closed | \$374,273 | This would also be different if a contract was not yet closed. At closing the contract total is reduced to total invoiced expenditures. This represents the contracted value.                       |

Maybe important words to distinguish here are Budget vs. Expenditures, and Project vs. Contract when dealing with how amounts are determined.

Your Costs Report (we usually call it the Governors Report) only deals with actual costs that have occurred during that specific fiscal year, along with accrual entries that are trued up the following year.

Let me know if I can offer any further explanation or reporting assistance with this. And hopefully I didn't create more questions than answers!

Sharon Grant  
503-230-5215

**From:** Stacy Horton [mailto:SHorton@NWCouncil.org]  
**Sent:** Tuesday, September 25, 2018 9:09 AM  
**To:** Grant, Sharon D (BPA) - EWB-4; John Harrison  
**Cc:** Read, Christine L (BPA) - EWB-4  
**Subject:** [EXTERNAL] RE: Question on BPA budget contact

Sharon,

Thank You for the response, I may have some additional follow-up questions beyond my question below.

One question I have is about the 'portfolio' accounts- aren't these also 'actuals' for past data, and then

I understand is forecast for anything beyond the current fiscal year. Is that correct? I want to be sure I understand what the portfolio data is representing.

Here's how BPA describes the Portfolio data:



**Budget History and Forecast**

**Description:** View historical and forecast project budgets for a maximum of ten contiguous fiscal years.

**Dimensions:** Project, Account Type (Expense, Capital), Budget, Fiscal Year

Thanks again for your assistance!

Stacy

**From:** Grant, Sharon D (BPA) - EWB-4 <sdgrant@bpa.gov>

**Sent:** Tuesday, September 25, 2018 8:06 AM

**To:** John Harrison <jharrison@nwcouncil.org>; Stacy Horton <SHorton@NWCouncil.org>

**Cc:** Read, Christine L (BPA) - EWB-4 <clread@bpa.gov>

**Subject:** RE: Question on BPA budget contact

Hi John and Stacy,

I asked our Accord fund guru to give me her take on your questions, without researching a specific number for a specific project.

From Chris Read:

The clear difference is the Cost report (Governors report) uses “actuals & accruals”, therefore what we spent during the period of October-September of each year.

The accord documents are in terms of “budgets”, that is what is the ceiling amount we can contract that given year. However, the accords have the ability to shift funds around, so I’m about 99.99% sure that the accord contract values will never match the original budgets identified in the accord documents.

The 2nd question of how we handle multiple proponents – generally speaking, we could break it down by the contracts. However if you are doing a portfolio by project, there is no easy way. I guess it all depends on the request and how precise (you) want the returned data; easy way would be to keep the multiple listed sponsors. The hard way would be to break down each project by who BPA is contracting with and pro-rate the budget that way (therefore multiple lines for each project, each year).

It is true we have to make sure we are comparing “apples to apples” in terms of whether we are looking at actuals vs. planned budgets, and whether something spans multiple fiscal years (i.e., contract cost) vs. collecting monthly costs to a project over a specific fiscal year (October to September).

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