



**Sixth Annual Report to the Northwest Governors
on Expenditures of the Bonneville Power Administration**

**to Implement the Columbia River Basin Fish and Wildlife Program of the
Northwest Power and Conservation Council**

1978 - 2006

August 2007



**Northwest
Power and
Conservation
Council**

Council Document 2007-19

Summary

In Fiscal Year 2006, the Bonneville Power Administration incurred costs totalling \$851.7 million to mitigate the impacts of hydropower dams on fish and wildlife of the Columbia River Basin. Of this amount, \$137.9 million was for direct spending to implement the Northwest Power and Conservation Council's Columbia River Basin Fish and Wildlife Program. The remainder was money for which Bonneville reimburses the Corps of Engineers and Bureau of Reclamation for fish-related dam operations (\$60.7 million); interest, amortization, and depreciation (these are called "fixed expenses") on capital investments in facilities such as hatcheries and fish passage at dams (\$87.5 million); forgone hydropower revenues that result from dam operations that benefit fish and reduce hydropower generation (\$397.4 million); and power purchases to replace the forgone hydropower (\$168.2 million). Tables 2-4 of this report detail Bonneville's direct spending on the Council's program in Fiscal Year 2006. The Columbia Basin Fish and Wildlife Authority (CBFWA) also reports on Bonneville's fish and wildlife expenditures. That report, *Status of Fish and Wildlife Resources in the Columbia River Basin*, is available on the CBFWA website, www.cbfwa.org.

The 2006 expenditures bring the grand total of Bonneville's fish and wildlife spending, from 1978 when the expenses began, through 2006, to \$8,662,800,000. Here, in descending order, is a breakdown of the expenditures, 1978-2006, which are detailed in Table 1 of this report:

- \$2.90 billion for power purchases to meet load requirements in response to required river operations that reduce hydropower generation.²
- \$1.78 billion in forgone revenue, the calculated value of hydropower that could not be generated because of required river operations to assist fish passage and improve fish survival, such as water spills at the dams when salmon and steelhead are migrating to or from the ocean.
- \$1.71 billion for the Council's direct-program. As noted above, the direct-program expenditures do not include annual expenditures from the separate capital-investment budget. With capital expenditures added, the total for 1978-2006 is \$3.97 billion¹.
- \$1.38 billion in fixed expenses for bonds issued by Bonneville to pay for capital investments in fish-passage facilities at the dams.
- \$862.2 million to reimburse the U.S. Treasury for the power-generation share of other federal agency expenditures to mitigate the impact of hydropower on fish and wildlife. Primarily these reimbursements are paid to the U.S. Army Corps of Engineers, Bureau of Reclamation, and U.S. Fish and Wildlife Service for efforts to improve fish and wildlife survival apart from the Council's program, such as operation and maintenance of fish passage facilities and federal fish hatcheries.

The Council thanks the Bonneville Power Administration for providing information about the agency's fish and wildlife expenditures for this report.

¹ For the period 2001-2004, direct program expenditures included a total of \$16,000,000 in one-time expenditures for "high priority" and "action plan" projects. These are included in the calculation of 1978-2006 total spending. The high-priority projects were intended to bring immediate benefits to all species listed for protection under the Endangered Species Act in advance of subbasin planning (subbasin plans were submitted to the Council in 2004 and adopted into the fish and wildlife program in 2004 and 2005). The "action plan" projects were intended to bring immediate benefits to ESA-listed salmon and steelhead that were affected by altered hydropower dam operations in the spring and early summer of 2001, when the flow of the Columbia River was at a near-record low.

² \$1.38 billion of this total was spent in the drought year of 2001.

Background

The 2007 Report

This is the sixth in a series of annual reports the Council prepares to explain funding of the Columbia River Basin Fish and Wildlife Program. The reports respond to a July 1999 request by the governors of Idaho, Oregon, Montana, and Washington -- the four states represented on the Council -- to report annually on expenditures of the Bonneville Power Administration to implement the program.

In this sixth annual report, the Council provides an update of Bonneville's funding through Fiscal Year 2006. The report also includes information about salmon and steelhead in the Columbia River Basin. Financial information was provided by Bonneville in response to requests from the Council. Information about salmon and steelhead was compiled from reports by the Fish Passage Center, U.S. Army Corps of Engineers, NOAA Fisheries, the states of Washington and Oregon through the Columbia River Compact, and the University of Washington Joint Institute for the Study of the Atmosphere and Oceans.

The Northwest Power and Conservation Council

The Northwest Power Act of 1980, a federal law, authorized the states of Idaho, Montana, Oregon, and Washington to form the Northwest Power and Conservation Council (it was known until 2003 as the Northwest Power Planning Council). The Act directs the Council to prepare a program to protect, mitigate and enhance fish and wildlife of the Columbia River Basin that have been affected by hydropower. The Act also directs the Administrator of the Bonneville Power Administration, the federal agency that sells electricity

generated at federal dams in the Columbia River Basin, to use the Bonneville fund in a manner consistent with the Council's program to protect, mitigate and enhance fish and wildlife affected by hydropower in the Columbia River Basin.

The Columbia River Basin Fish and Wildlife Program

The Council is a planning, policy-making, and reviewing body. Consistent with the Northwest Power Act, the Council develops the fish and wildlife program and monitors its implementation. The program is implemented primarily by Bonneville but also by the region's fish and wildlife agencies and tribes, the U.S. Army Corps of Engineers, the Bureau of Reclamation, and the Federal Energy Regulatory Commission and its licensees. The program addresses hydropower impacts on anadromous fish, resident fish, and wildlife. Anadromous fish are those that spawn in freshwater, migrate to the Columbia River estuary as juveniles, spend their adult lives in the Pacific Ocean, and then return to their freshwater birthplaces to spawn and die. Resident fish are those that live and migrate within freshwater rivers, streams, and lakes.

The program includes scientific research; habitat acquisitions and easements²; and construction projects to improve habitat and fish passage and to build and operate hatcheries. The program also establishes certain reservoir elevations and flow requirements to protect anadromous and resident fish and their habitat. Other measures call for using stored water to maintain appropriate water temperatures and protect streambeds. The program focuses most of the mitigation activities on anadromous fish, consistent with language in the Northwest Power Act. Section 2.6 of the Act states that anadromous fish "are of significant

² Habitat acquisitions and easements for wildlife are credited against identified habitat losses attributable to the construction of hydro-power dams. The crediting unit is called a "Habitat Unit," which is a measure of both the quantity and quality of the acquired site and, thus, its suitability for targeted species. Habitat acquisitions and easements for resident fish in Montana are credited instream to mitigate losses attributable to the construction and inundation by Libby and Hungry Horse dams.

importance to the social and economic well-being of the Pacific Northwest and the Nation” and that these fish “are dependent on suitable environmental conditions substantially obtainable from the management and operation” of dams on the Columbia River and its tributaries. Primarily these are salmon and steelhead, but anadromous Pacific lamprey and sturgeon also are found in the Columbia system. These species also are targeted in the Council’s program.

Through a collaborative process, the Council and Bonneville solicit projects to implement the program. The Council submits project proposals for review by the fish and wildlife managers, the Independent Scientific Review Panel (ISRP)³ and the general public and then recommends projects to Bonneville for funding. The Council also requests NOAA Fisheries and the U.S. Fish and Wildlife Service to provide input on projects required to meet the agencies’ Endangered Species Act obligations for threatened and endangered fish species.

Beginning in Fiscal Year 2007, projects that implement the program are based on needs identified in subbasin plans and funded for three years at a time rather than one year. There are 57 subbasin plans, developed locally over a two-year period (2002-2004). The Council amended the plans into the fish and wildlife program in late 2004 and early 2005.

3 The Independent Scientific Review Panel was created by the Council in response to a 1996 amendment to the Northwest Power Act that called for greater scientific scrutiny and public accountability of expenditures through the Council’s program. The 11 members of the Panel are recommended by the National Academy of Sciences and appointed by the Council.

Expenditures by Category, Fiscal Years 2004 and 2005

Direct-program expenditures

Direct-program expenditures pay for projects reviewed by the ISRP, fish and wildlife managers and the public, and then recommended by the Council to Bonneville for funding. For Fiscal Year 2006, Bonneville reported direct-program expenditures of \$173.2 million. Those amounts include capital obligations of \$35.4 million. Subtracting capital obligations, the expenditures total \$137.9 million.

In 2006, Bonneville's spending for anadromous fish totaled \$106.6 million. For resident fish, the amount was \$25.6 million. For wildlife, the amount was \$26.8 million. Expenditures for anadromous fish projects amounted to 61.5 percent of direct-program spending. Resident fish projects accounted for 14.7 percent of direct-program spending, and wildlife expenditures accounted for 15.4 percent⁴.

Bonneville reported systemwide fish and wildlife program support expenditures of \$3.2 million in 2006. These include costs such as data management, coordination and information to support all programs. Bonneville program support, \$10.9 million in 2006, includes contracts for program review and independent analysis of the program, and for Bonneville's Environment, Fish, and Wildlife Division overhead and personnel costs.

Power purchases

Measures in the Council's program and in the 2000 and 2004 biological opinions on hydropower operations issued by NOAA Fisheries and the U.S. Fish and Wildlife Service can affect hydropower generation (a new biological opinion, resulting from a court-ordered remand of the 2004 opinion, is due in 2007). These

measures include river and dam operations to protect spawning and rearing areas for resident fish such as bull trout and white sturgeon and to improve passage conditions at dams for listed juvenile salmon and steelhead. To make up lost hydropower generation when these operations occur, Bonneville often buys electricity from other suppliers. These purchases are part of Bonneville's larger wholesale power purchases. To determine how much of these purchases to attribute to lost hydropower from the fish operations, Bonneville performs two annual calculations of its total power purchases -- one that includes the fish operations and one that does not. Bonneville attributes the difference in power purchases to the fish requirements and, therefore, identifies them as a cost in its fish and wildlife budget. Bonneville assigned \$168.2 million in power purchases to the fish and wildlife budget in 2006.

Forgone revenue

River and dam operations can result in lost income, and in some circumstances increased income, for Bonneville. Bonneville's budget term for the lost income is forgone revenue. To determine forgone revenue, Bonneville calculates the net value of the hydropower revenues gained and lost as a result of fish operations on an annual basis. Bonneville charges forgone revenue against its fish and wildlife budget as an expense. Bonneville assigned forgone revenue of \$397.4 million to the fish and wildlife budget in 2006.

⁴ Wildlife expenditures are treated differently than expenditures for anadromous fish and resident fish. Wildlife projects address habitat losses that have been calculated, by species, for each federal dam (or groups of dams within tributary subbasins). The identified losses only address the impacts of dam construction; losses attributable to dam operations have not been quantified. The Council, Bonneville, and the region's wildlife managers developed a system of crediting habitat acquisitions against the losses.

Fish Runs and Fisheries

This report also includes the most recent numbers the Council could gather about salmon and steelhead runs in the Columbia River Basin. The Council collected the information from reports prepared by the Washington and Oregon departments of fish and wildlife, NOAA Fisheries, the U.S. Army Corps of Engineers, and the Fish Passage Center.

Some of the figures and tables are presented differently in this version of the report than in past versions, reflecting changes in how the state and federal agencies compile and report the information. Additionally, some information that was reported in past versions of this report no longer is available.

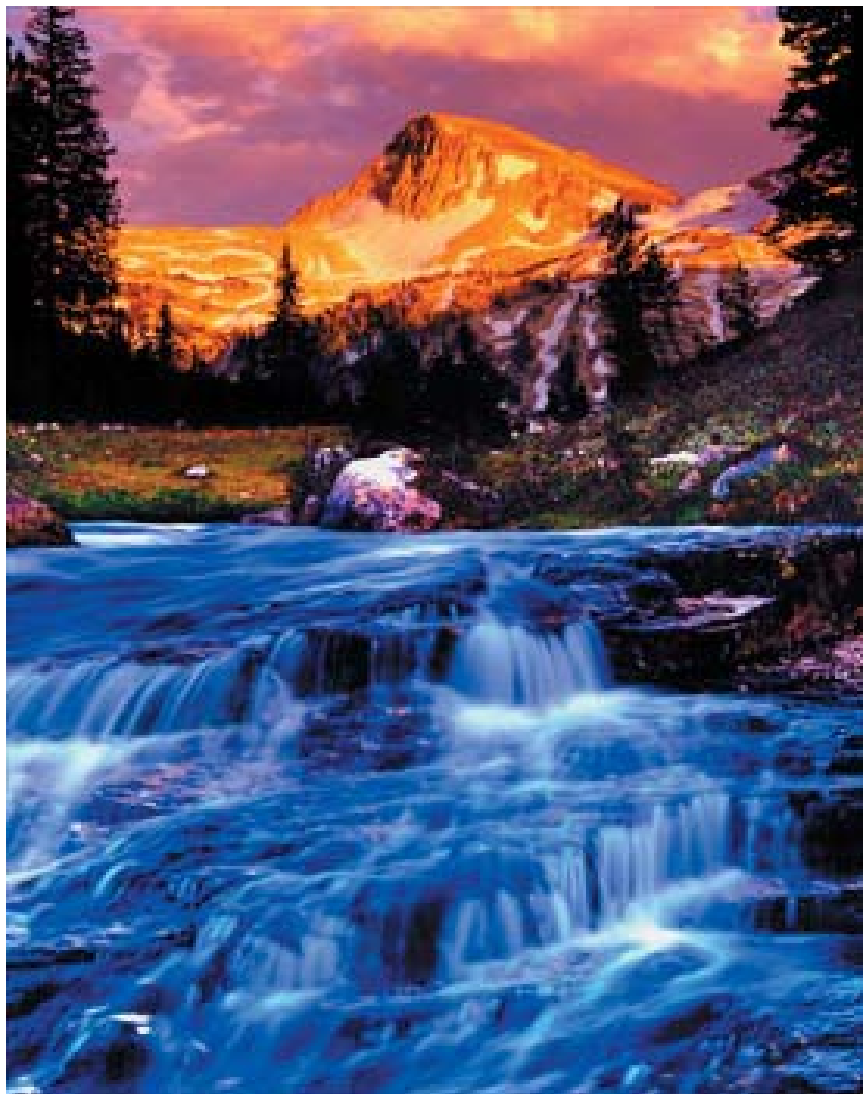
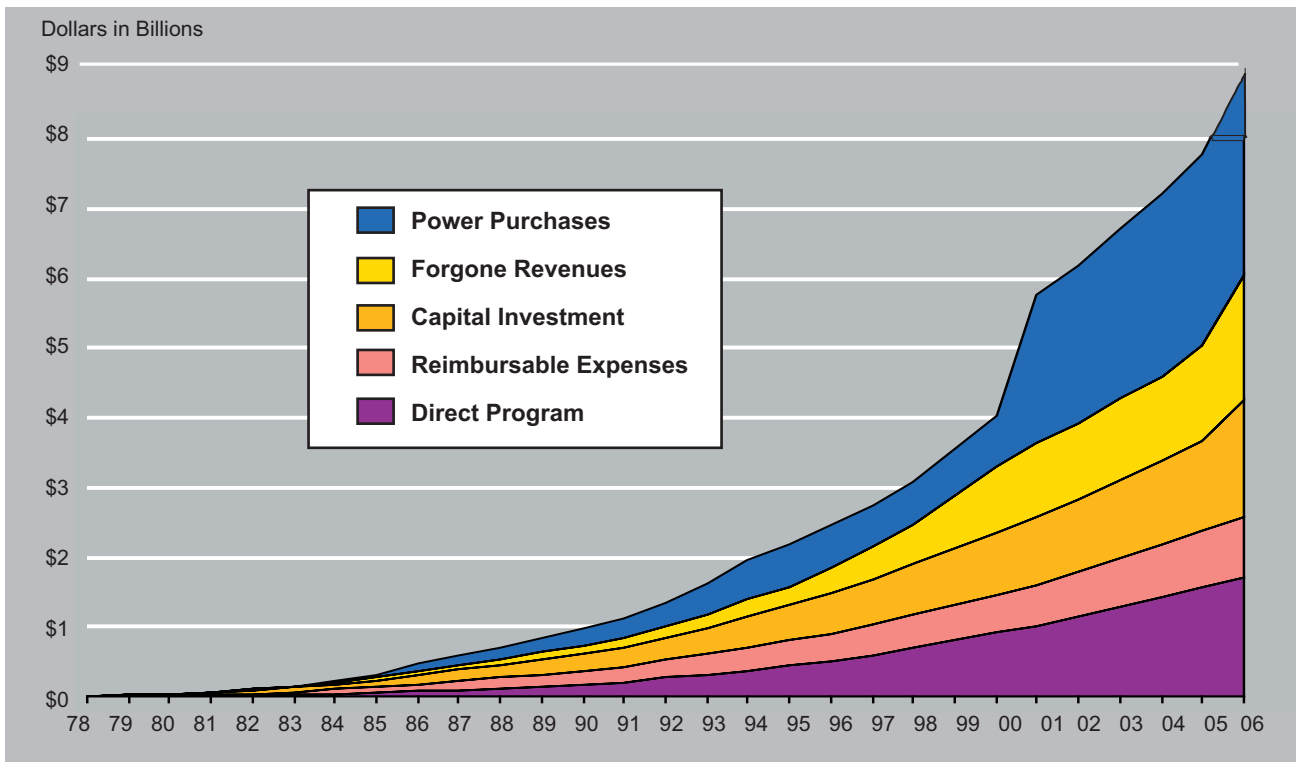
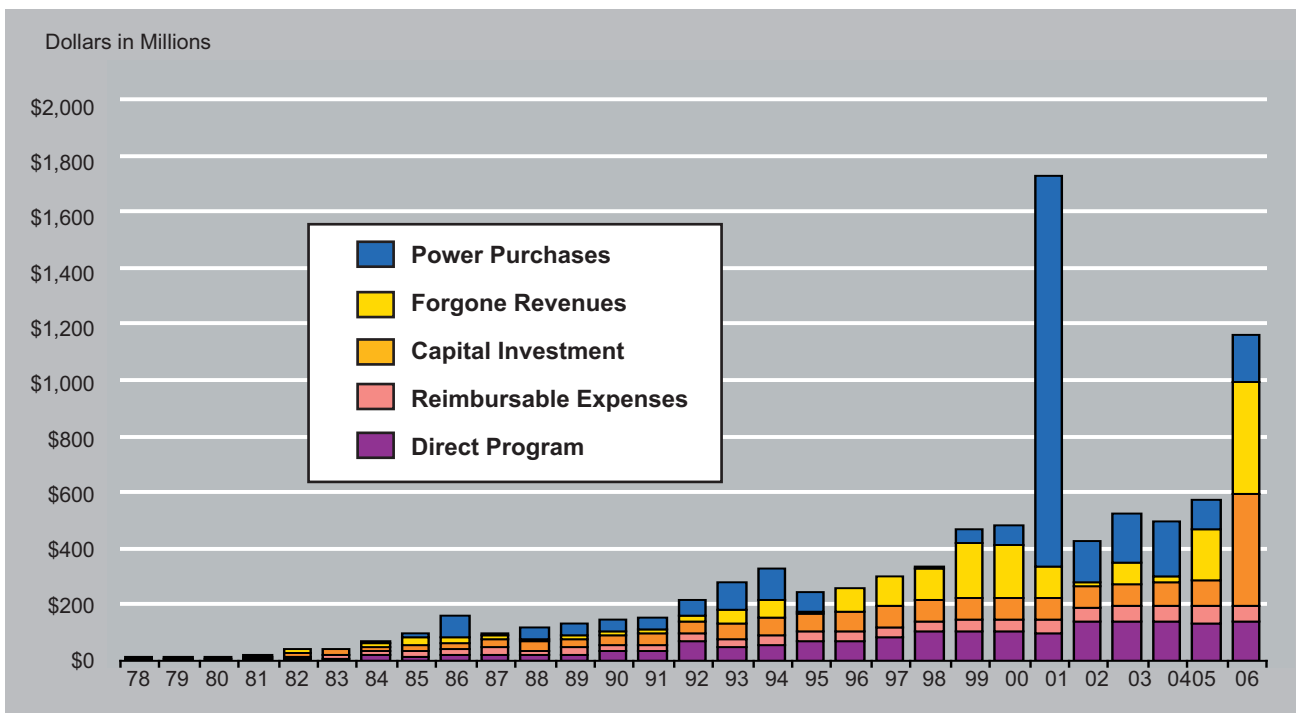


Figure 1A: BPA Fish and Wildlife Cumulative Expenditures 1978-2006



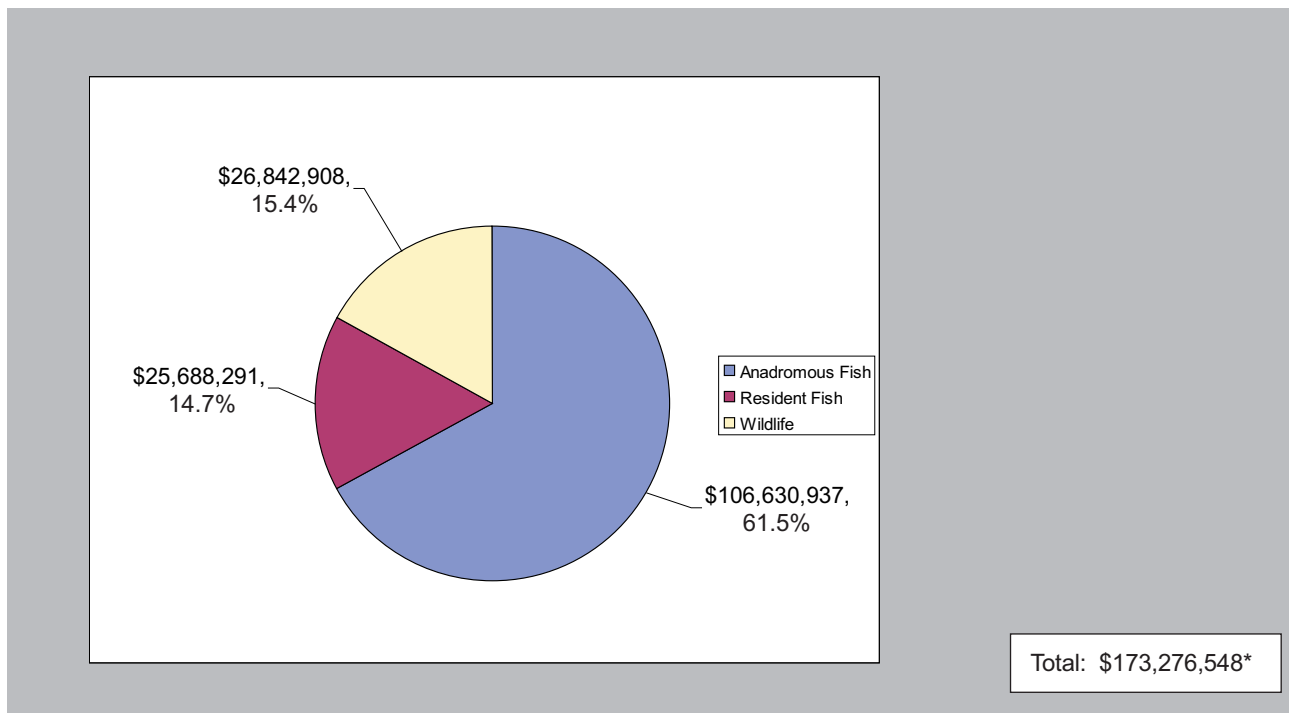
Source: Bonneville Power Administration

Figure 1B: BPA Fish and Wildlife Total Annual Expenditures 1978-2006



Source: Bonneville Power Administration

Figure 2: BPA Fish and Wildlife Expenditures by Species, 2006

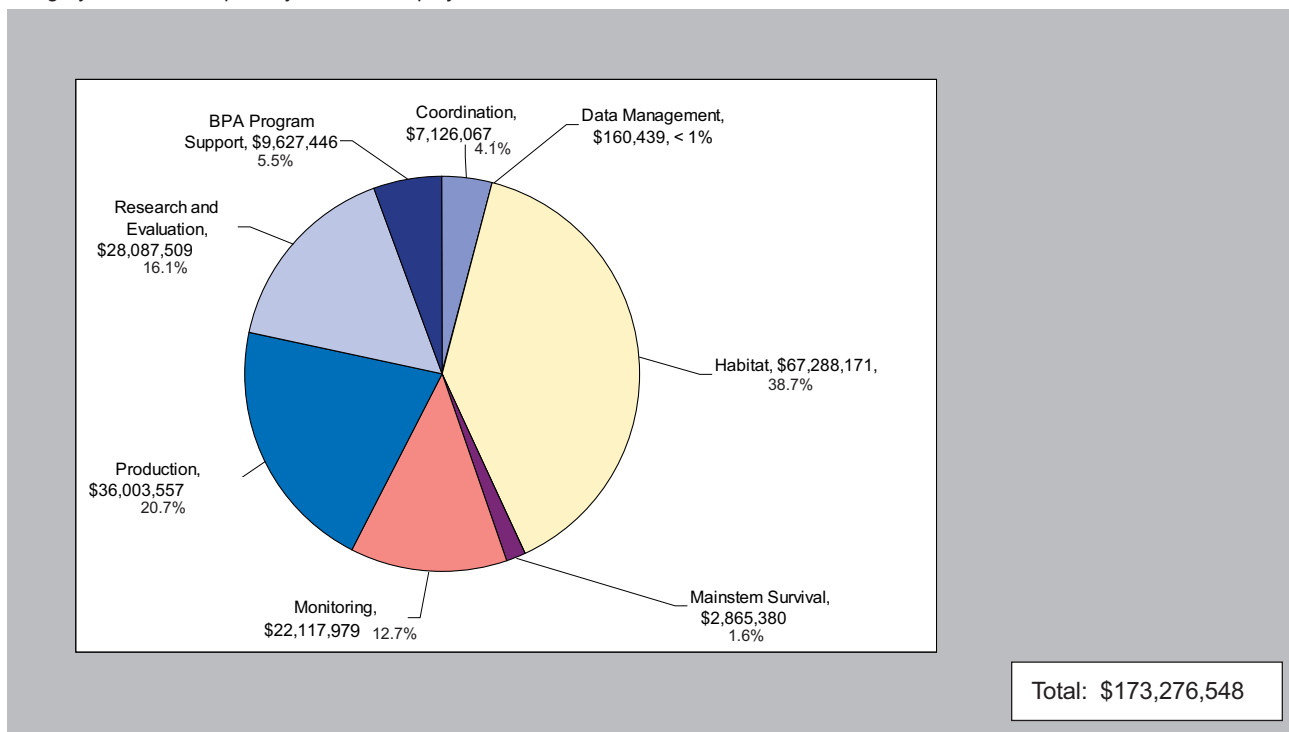


*The amounts above total \$159,162,136. The difference is in Bonneville's external program support (\$3,212,963) and internal program support (\$10,901,449), as explained in Table 2 on Page 23 of this report. The percentages above are percentages of the total expenditures (\$173,276,548).

Source: Bonneville Power Administration

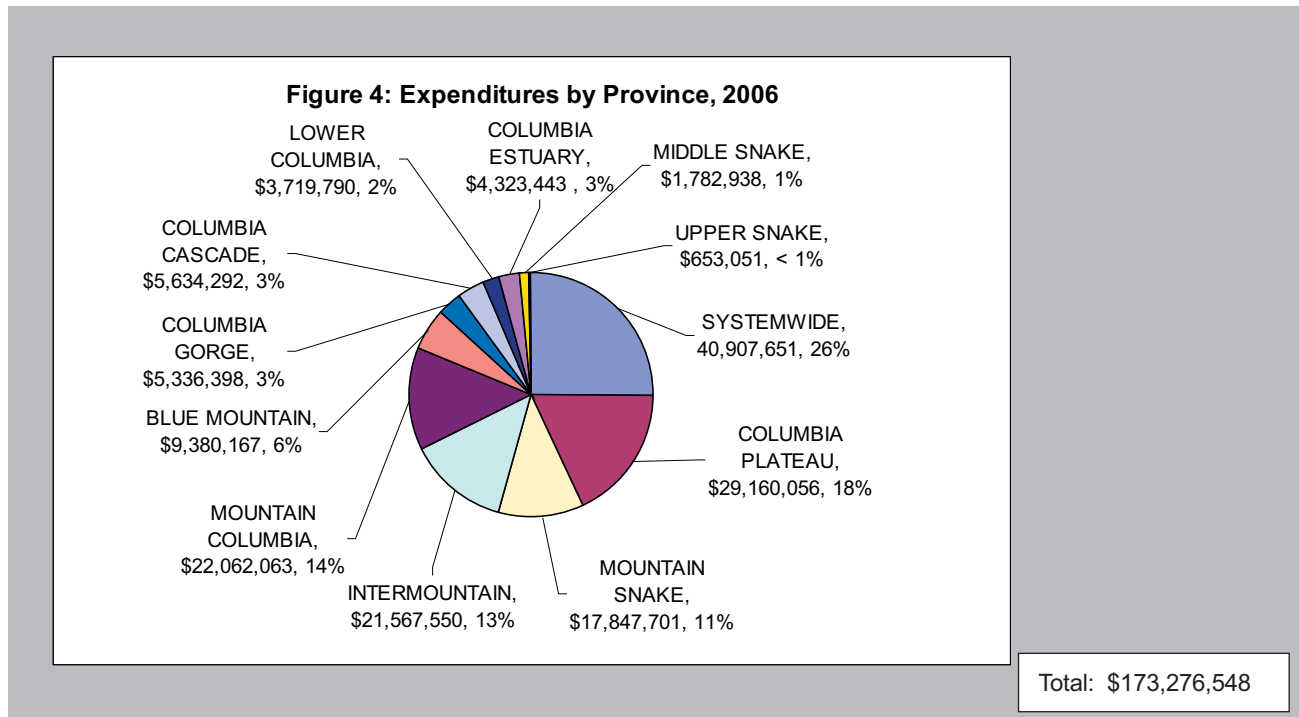
Figure 3: BPA Direct-Program Expenditures by Category, 2006*

*Many projects incorporate one or more of the categories shown here. This breakout attempts to quantify project expenditures in a single category based on the primary focus of the project.



Source: Bonneville Power Administration

Figure 4: BPA Direct-Program Budget, Expenditures by Province, 2006



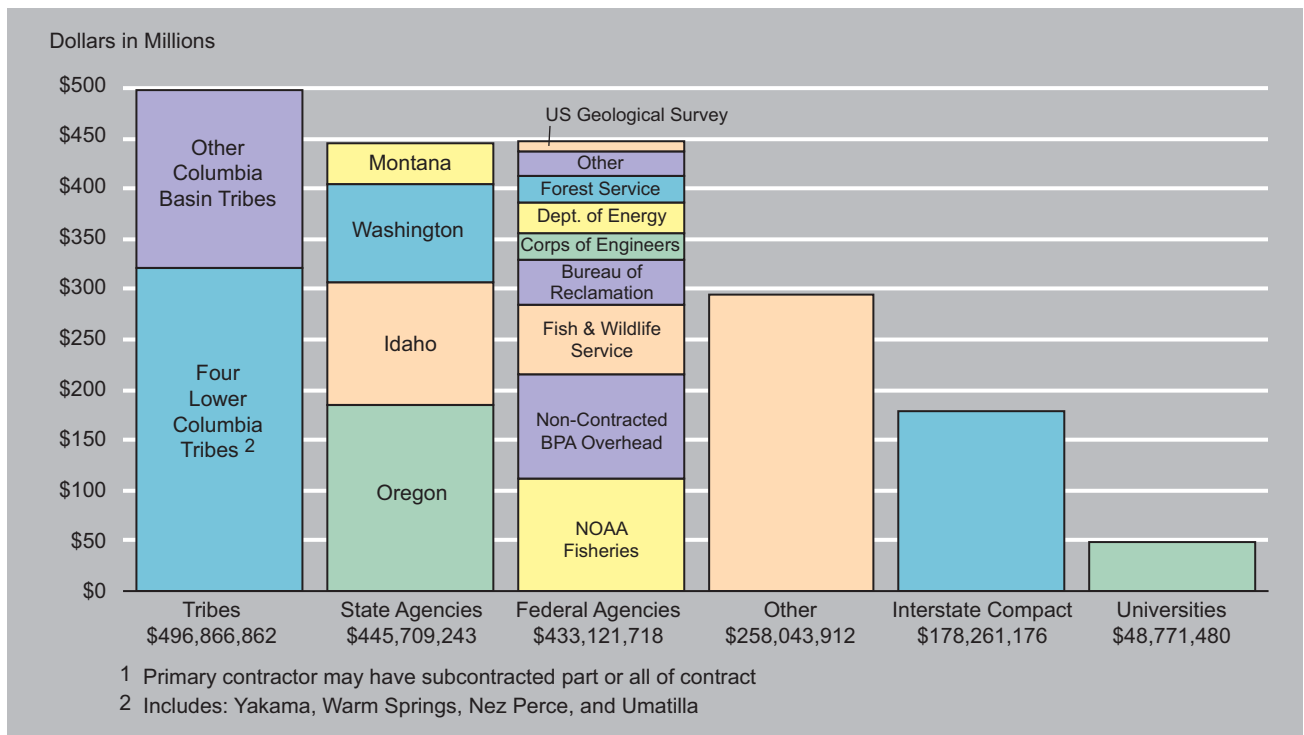
Source: Bonneville Power Administration

Figure 4A: Ecological Provinces of the Columbia River Basin



Figure 5: BPA Expenditures by Contractor, by Type, 1978-2005*

*See Appendix B for 2006 information.



Source: Bonneville Power Administration

Figure 6: Salmon and Steelhead passing Bonneville Dam, 1938-2006, Hatchery and Wild Combined

The Council's long-term goal is 5 million fish crossing Bonneville Dam

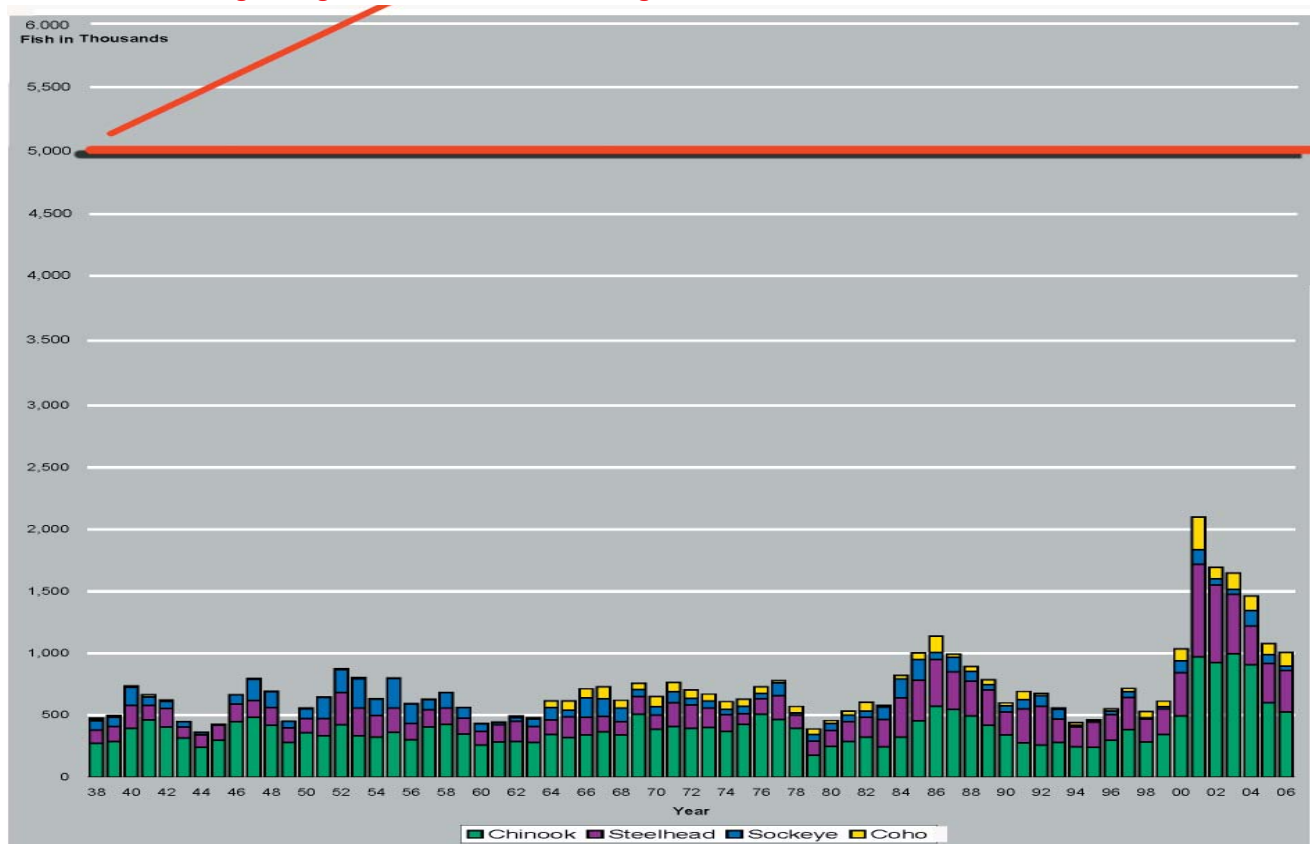
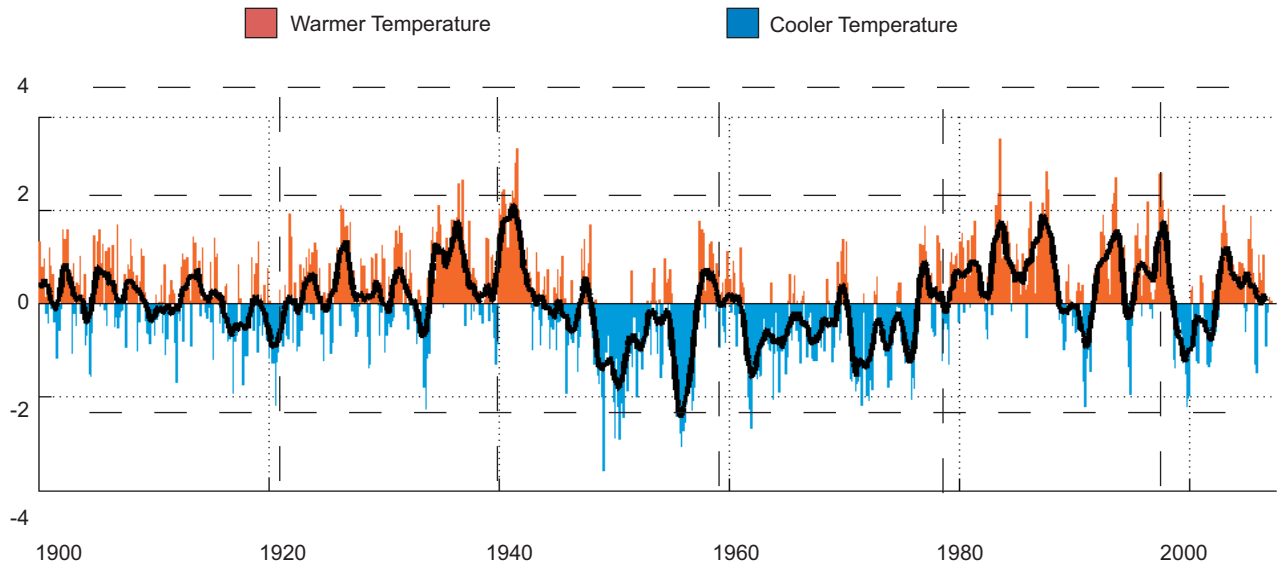


Figure 7: Ocean Temperature Cycles*
January 1900 - February 2007

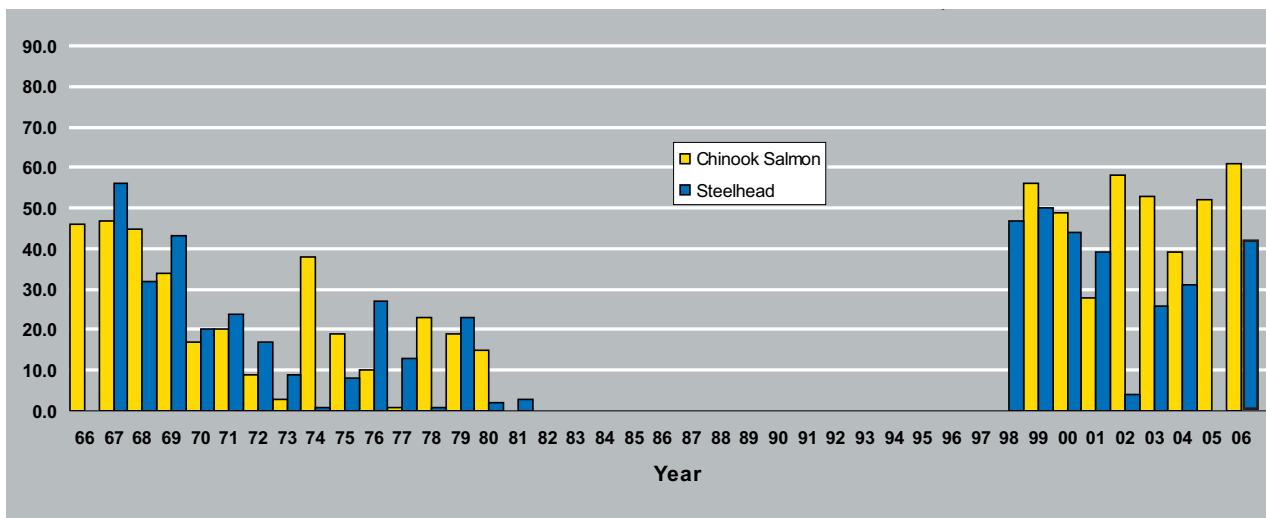


Ocean Temperature Cycle, January 1900 to February 2007

Source: Joint Institute for the Study of the Atmosphere and Ocean, University of Washington. According to researchers at the University of Washington, the “Pacific Decadal Oscillation” (PDO) depicted in this figure is a long-lived El Niño-like pattern of Pacific Ocean climate variability. The PDO is different from El Niño in two important ways. First, the 20th century PDO “events” persisted for 20-30 years, while typical El Niño events persisted for six to 18 months. Second, the PDO appears to affect primarily the northern Pacific Ocean, while El Niño appears to affect primarily the southern Pacific. Major changes in northeast Pacific marine ecosystems have been correlated with phase changes in the PDO; warm eras have seen enhanced biological productivity in waters off the coast of Alaska and inhibited productivity off the west coast of the contiguous United States, while cold PDO eras have seen the opposite north-south pattern of marine ecosystem productivity.

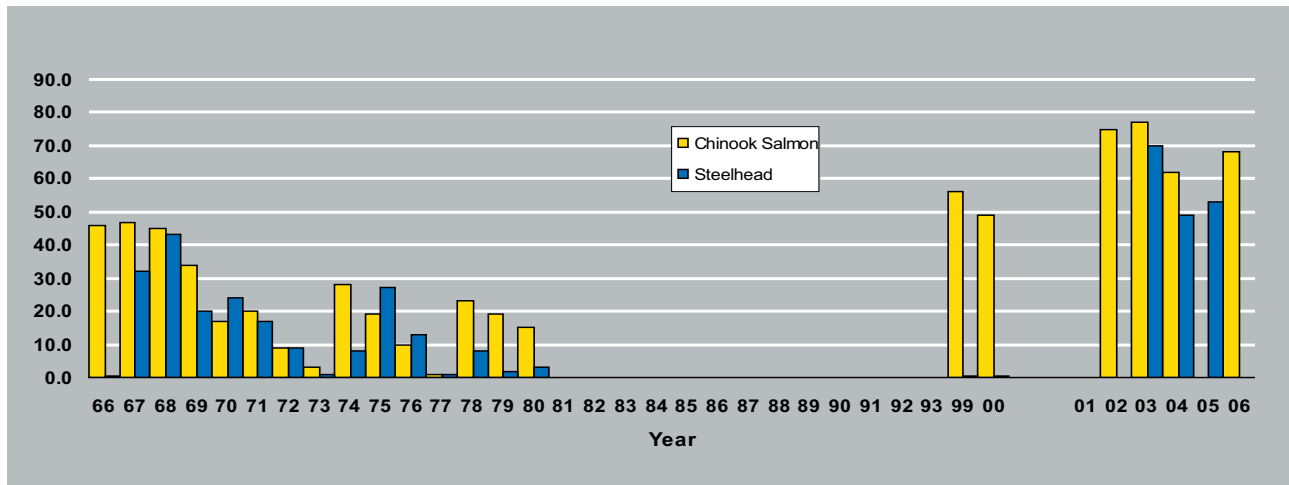
Source: University of Washington

Figure 8A: Estimated Inriver Juvenile Survival from Lower Granite to Bonneville dams 1966-1980, 1997-2006, Hatchery and Wild Fish.



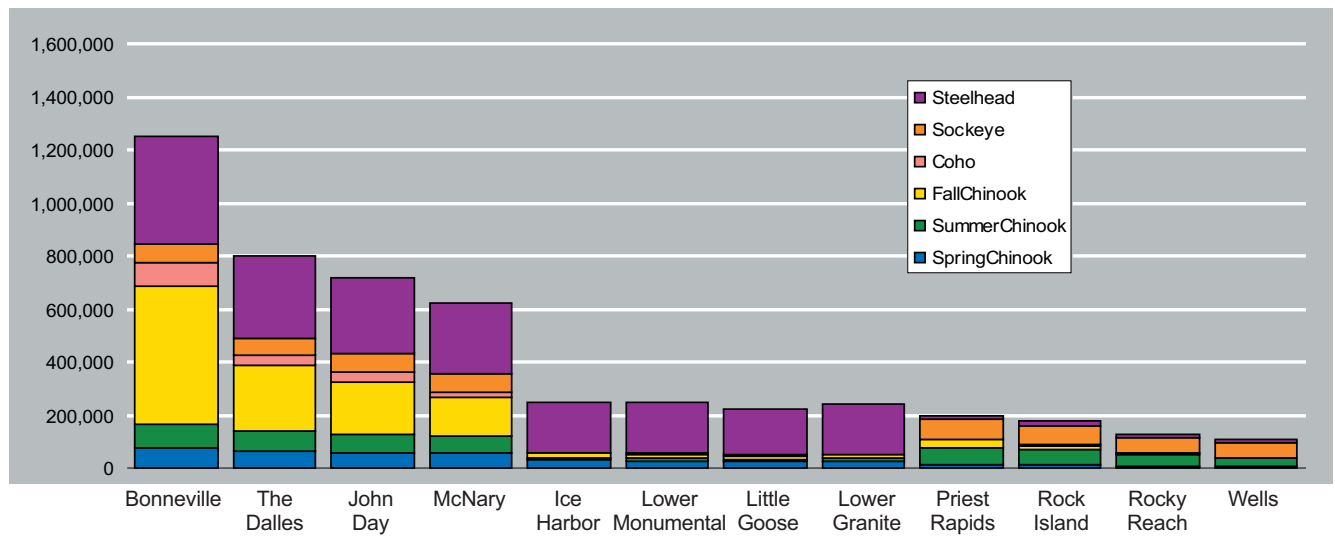
Source: NOAA Fisheries

Figure 8B: Estimated Inriver Juvenile Survival from McNary to Bonneville Dams 1966-1980, 1997-2006, Hatchery and Wild Fish.



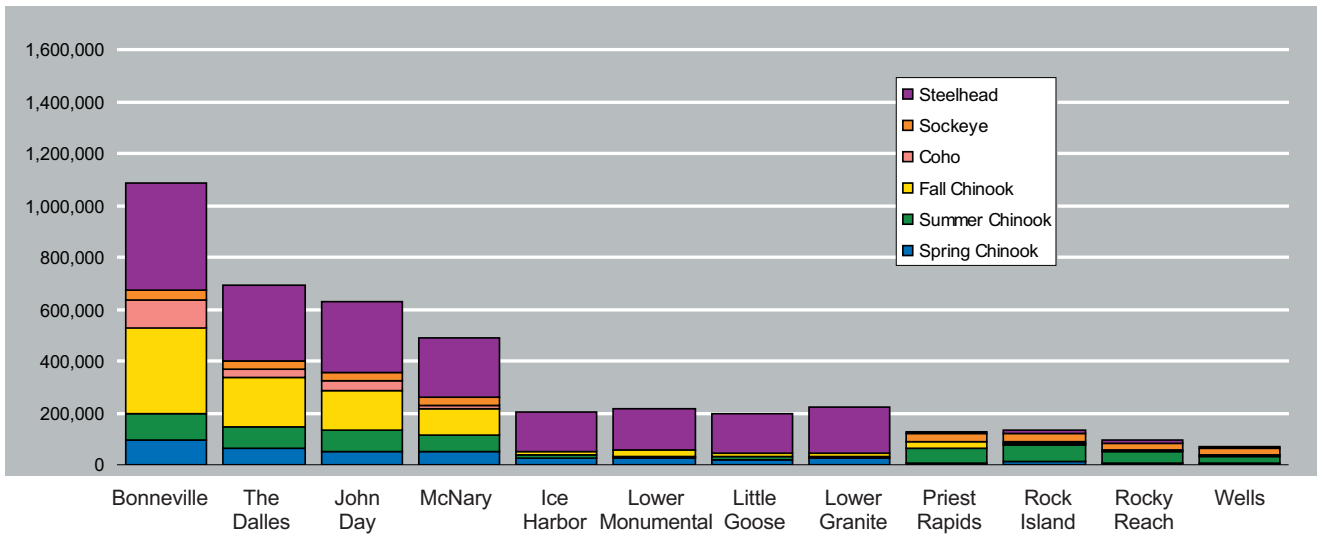
Source: NOAA Fisheries

Figure 9A: Fish Counted at Each Mainstem Dam 2005



Source: Fish Passage Center

Figure 9B: Fish Counted at Each Mainstem Dam 2006



Source: Fish Passage Center

Figure 9C: Fish Counted at Willamette Falls 2005

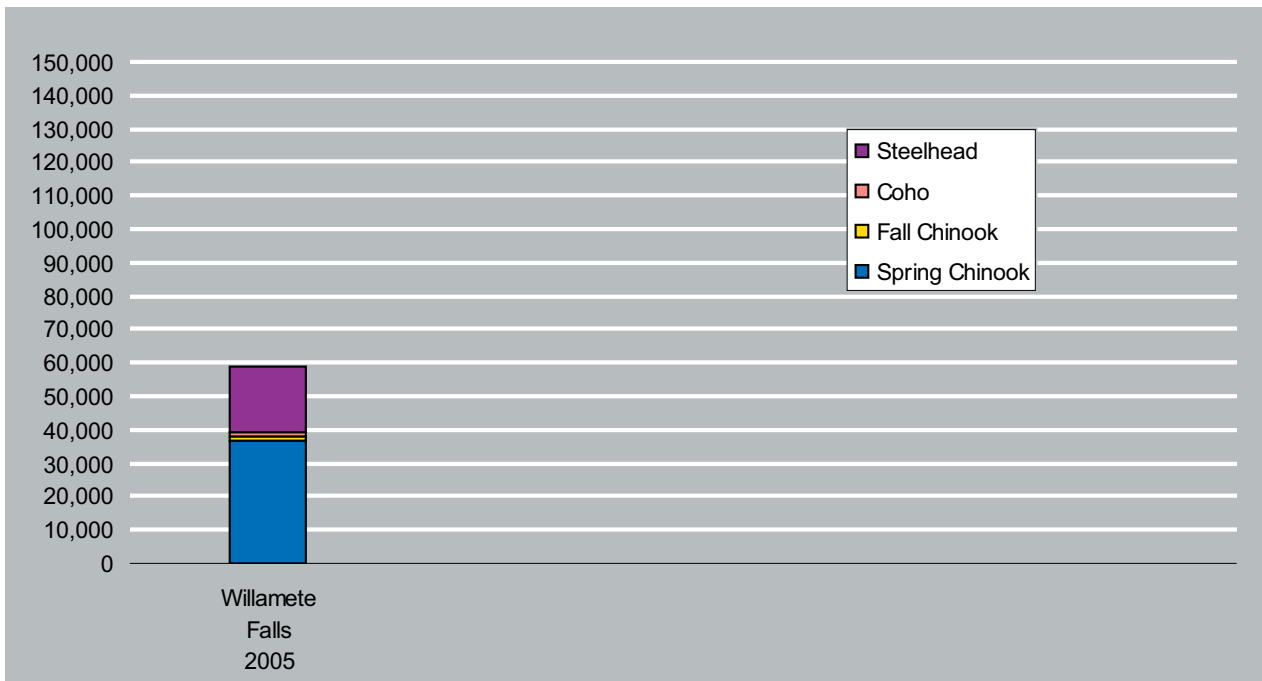


Figure 9D: Fish Counted at Willamette Falls 2006

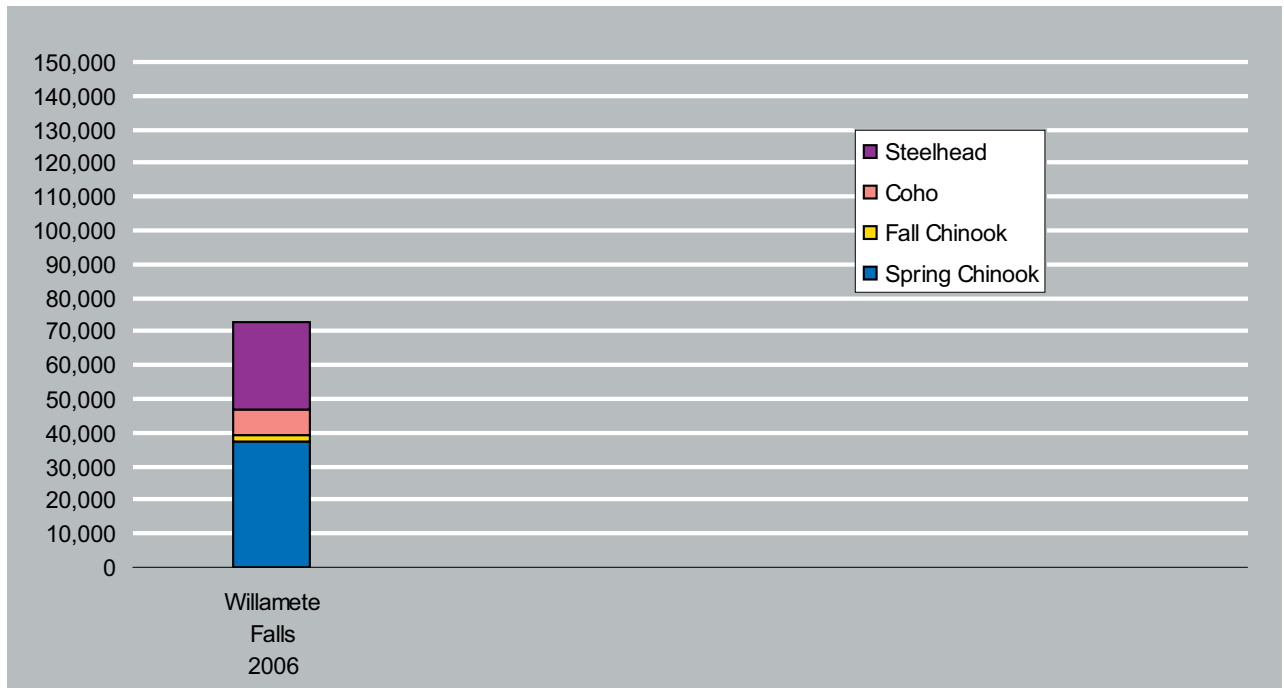
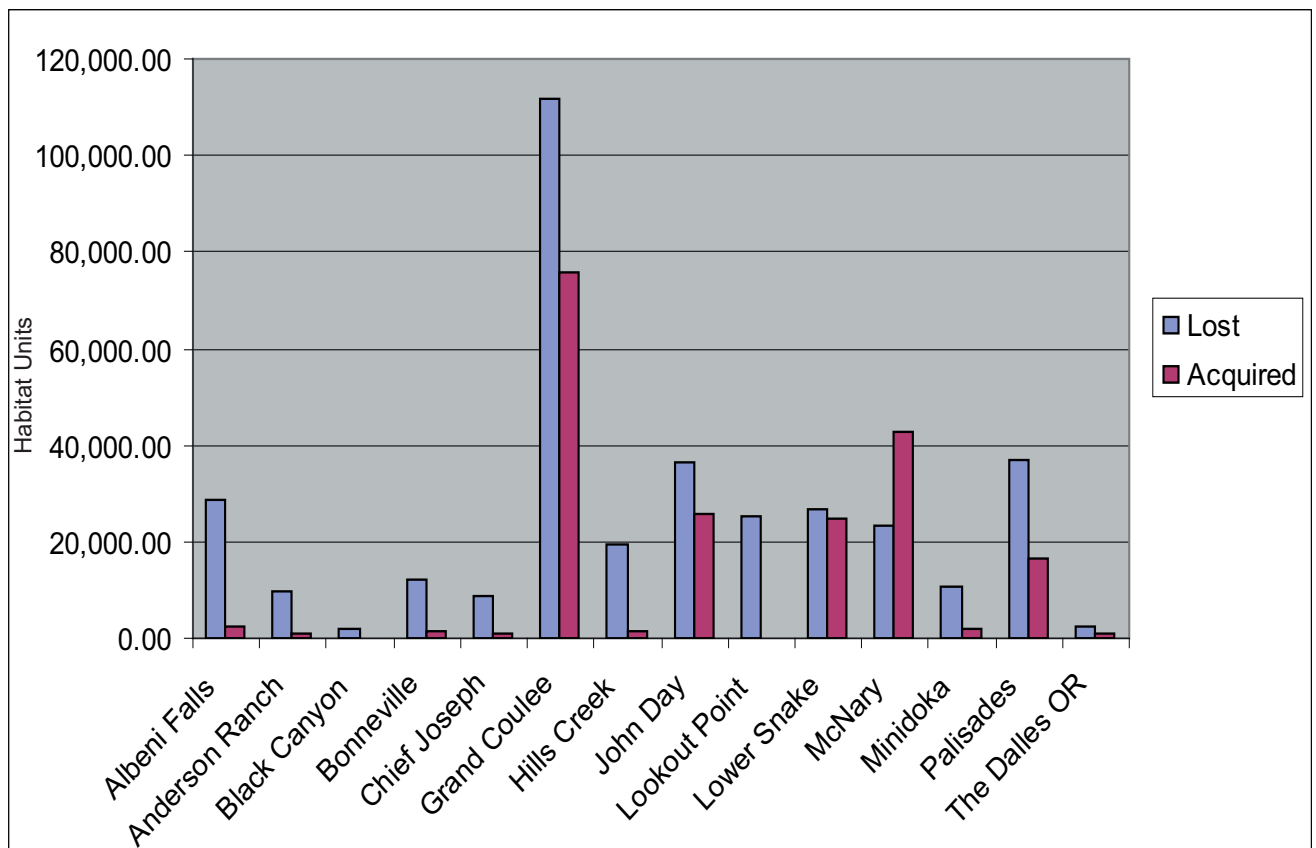


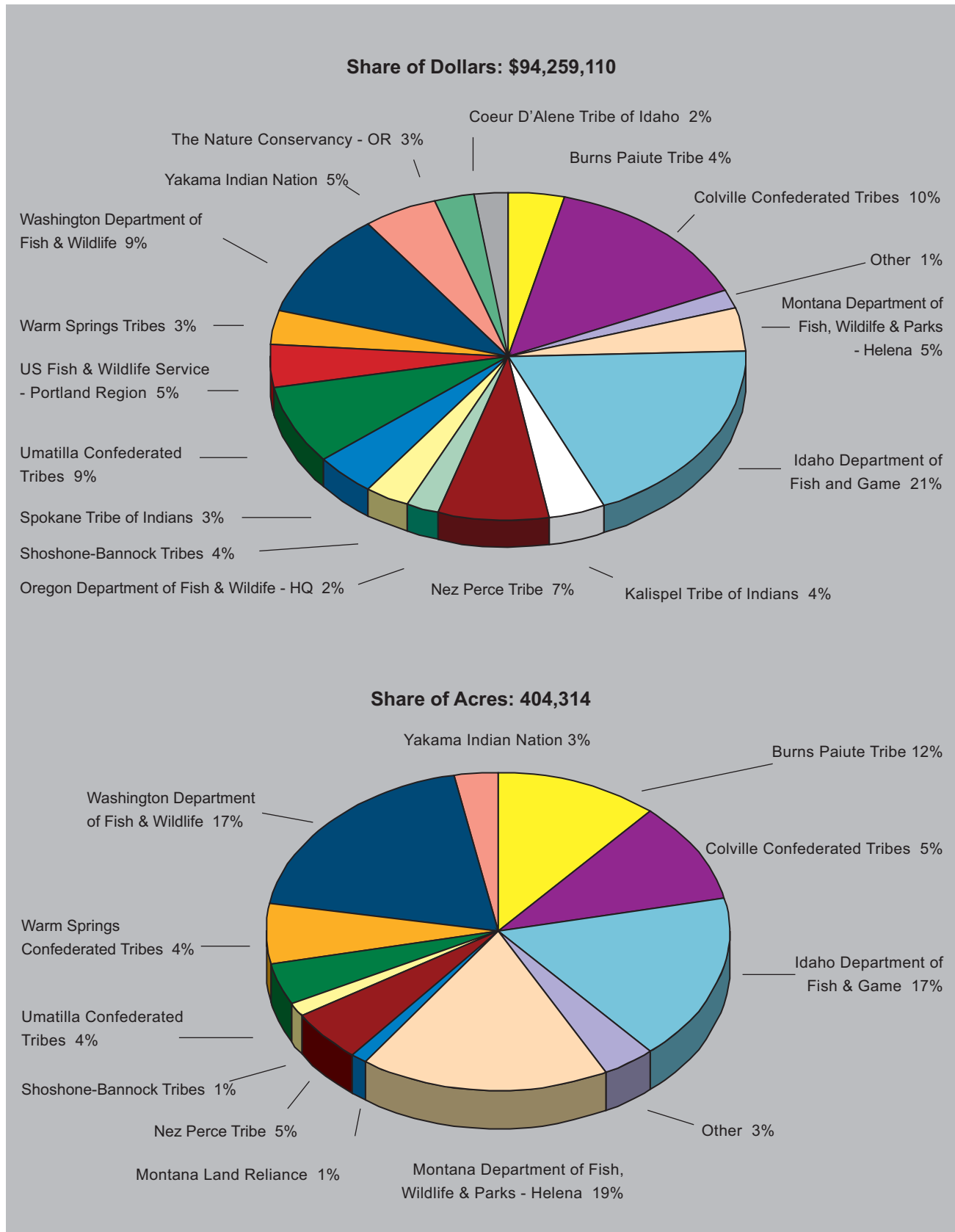
Figure 10: Wildlife Habitat Units: Lost & Acquired, by Dam



Source: Bonneville Power Administration

Figure 11: Wildlife Acres Protected and Share of Acquisition Costs by Entity, 1978-2005*

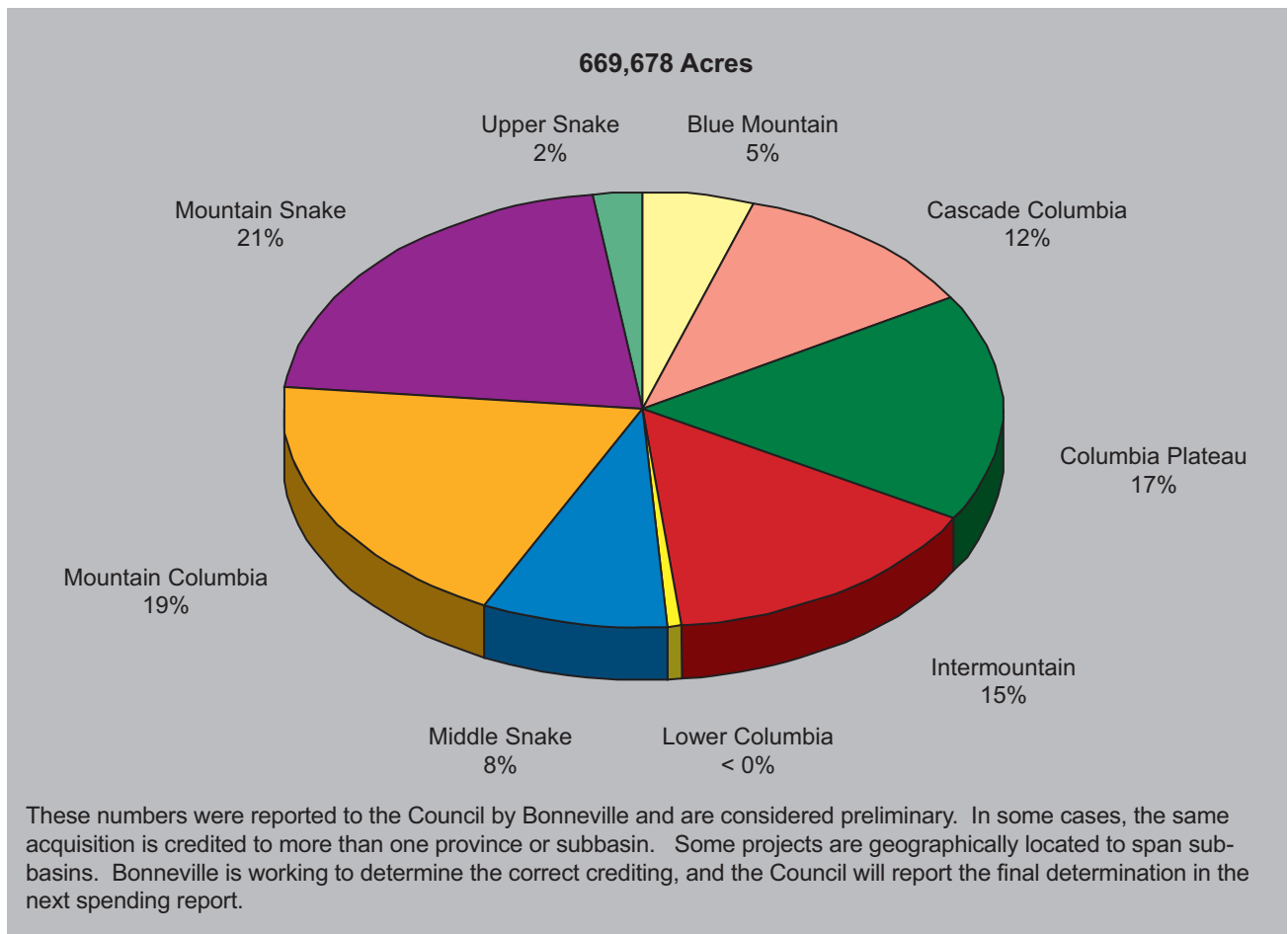
*See Appendix B for additional information. Bonneville was unable to update the information in this figure for 2006.



Source: Bonneville Power Administration

Figure 12: Properties Purchased by BPA for Wildlife Purposes by Province 1978-2005*

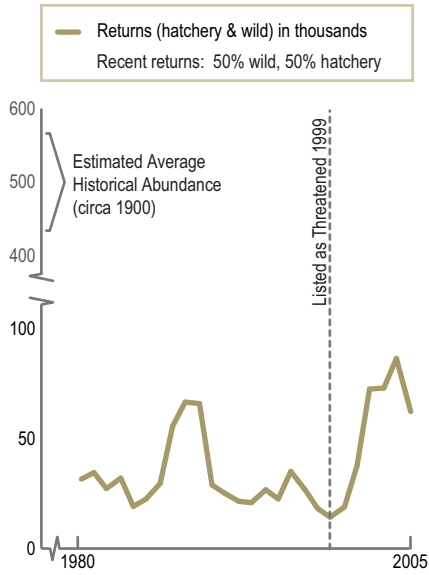
*See Appendix B for totals through April 2007.



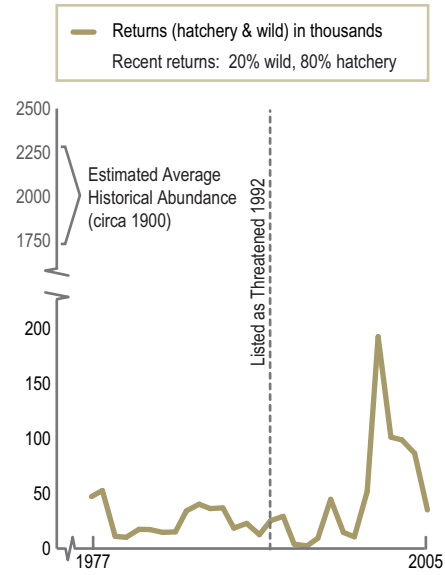
Source: Bonneville Power Administration

Appendix A: Status of Endangered Species Act listed Salmon and Steelhead Populations in the Columbia River Basin*

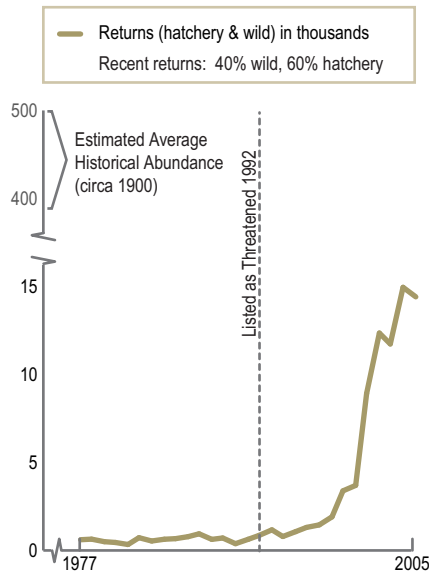
**Lower Columbia River
Chinook ESU**



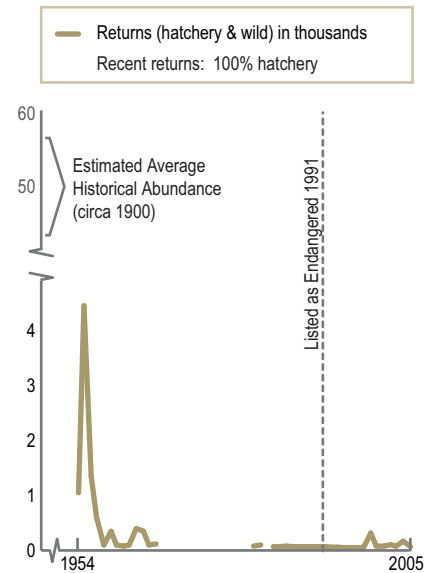
**Snake River Spring/Summer
Chinook ESU**



**Snake River Fall
Chinook ESU**

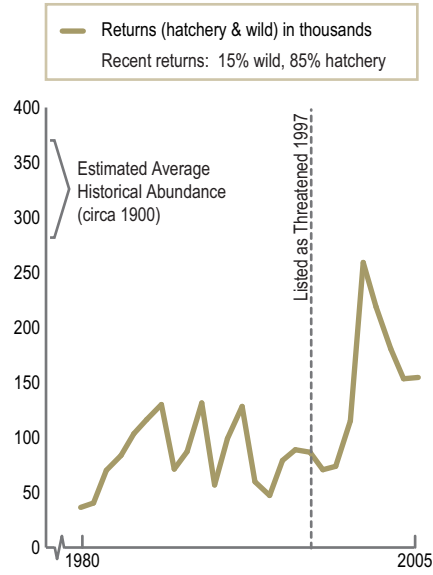


**Snake River
Sockeye ESU**

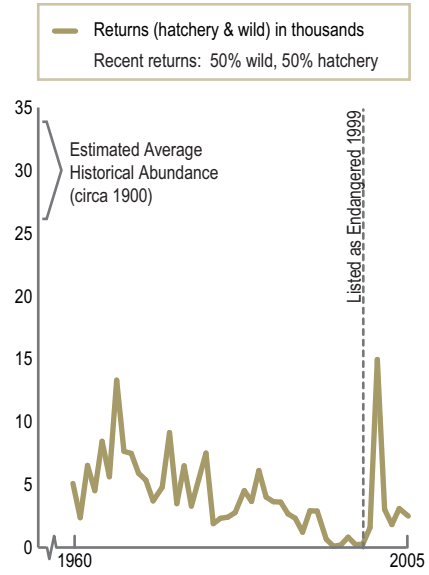


* These figures, reproduced with permission of NOAA Fisheries, are taken from the 2006 Annual Report to Congress of the Pacific Coastal Salmon Recovery Fund. The figures show the abundance of the listed populations through 2005; NOAA has not completed an update through 2006.

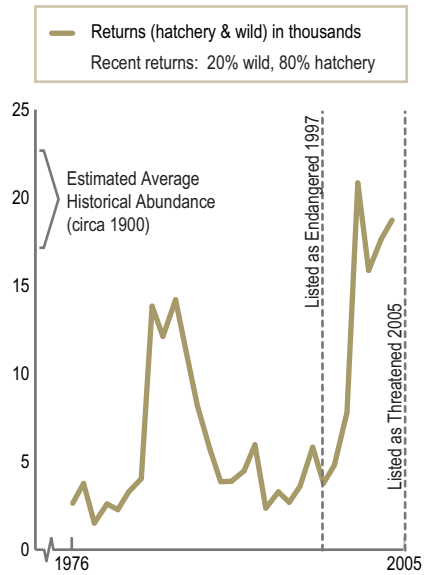
Snake River Steelhead DPS



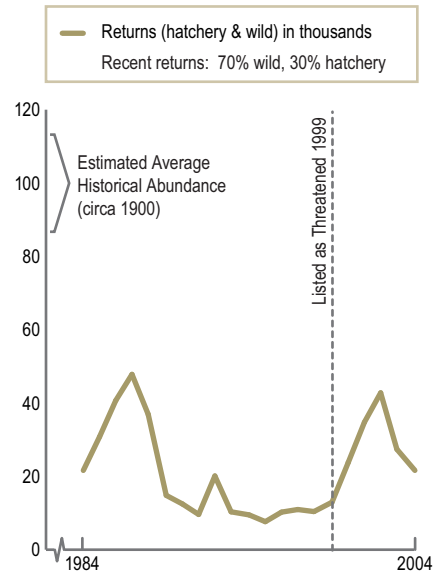
Upper Columbia River Spring Chinook DPS



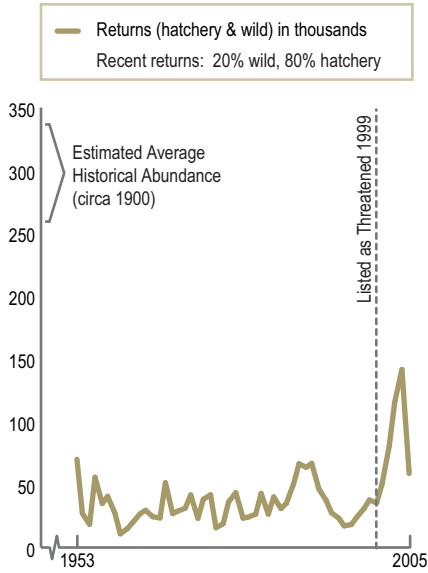
Upper Columbia River Steelhead DPS



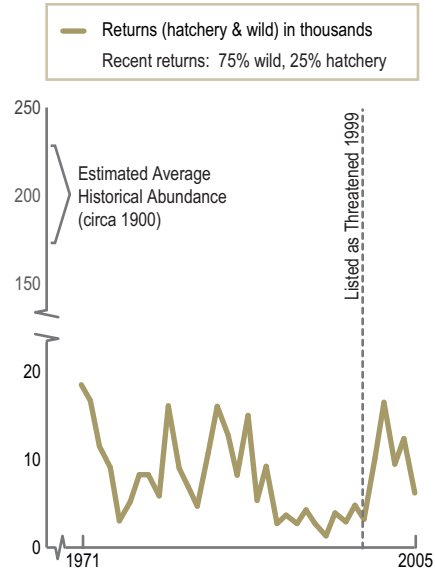
Middle Columbia River Steelhead DPS



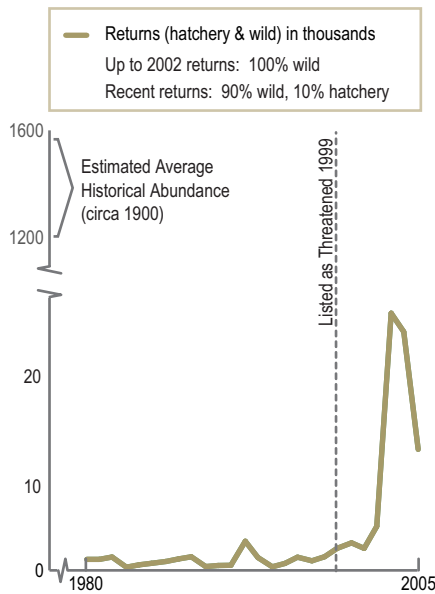
Upper Willamette River Chinook ESU



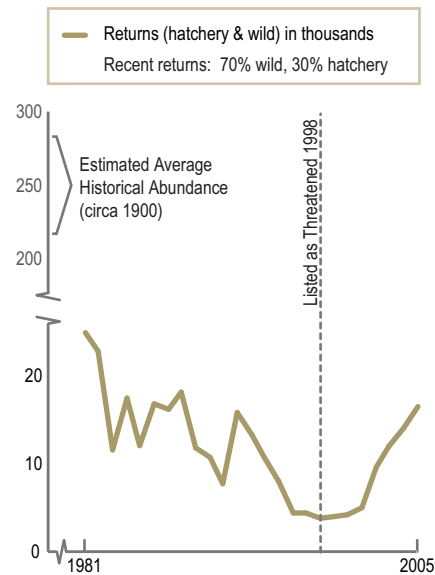
Upper Willamette River Steelhead DPS



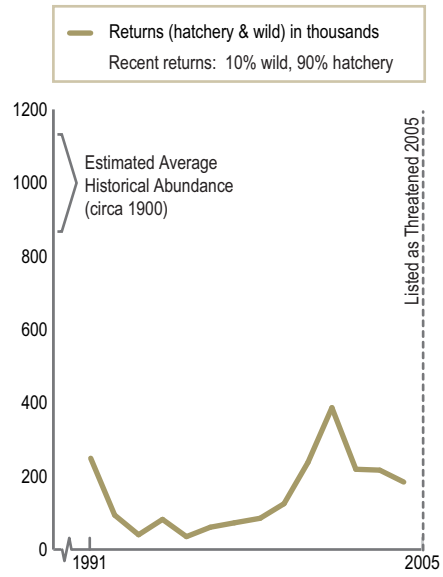
Columbia River Chum ESU



Lower Columbia River Steelhead DPS



Lower Columbia River Coho ESU



Appendix B: Tables

Table 1A Cumulative and Total Annual Expenditures (continues through next page)

Bonneville Fish and Wildlife Costs

COST ELEMENT	1978-1980	1981	1982	1983	1984	1985	1986	1987	1988
CAPITAL INVESTMENTS ^{1/}									
BPA FISH AND WILDLIFE	-	-	-	-	-	10.2	8.0	4.7	7.7
BPA SOFTWARE DEVELOPMENT COSTS ^{2/}	30.0	17.9	61.7	55.1	9.0	46.4	9.1	78.6	7.6
ASSOCIATED PROJECTS (FEDERAL HYDRO) ^{3/}	30.0	17.9	61.7	55.1	9.0	56.6	17.1	83.3	15.3
TOTAL CAPITAL INVESTMENTS	30.0	17.9	61.7	55.1	9.0	56.6	17.1	83.3	15.3
PROGRAM EXPENSES									
DIRECT FISH AND WILDLIFE PROGRAM	2.3	2.3	4.6	9.1	19.6	15.9	19.6	22.2	18.8
SUPPLEMENTAL MITIGATION PROGRAM EXPENSES ^{4/}									
REIMBURSABLE/DIRECT-FUNDED PROJECTS ^{5/}									
O & M LOWER SNAKE RIVER HATCHERIES	-	0.5	1.0	2.2	3.6	5.4	4.9	5.8	5.1
O & M CORPS OF ENGINEERS	15.0	5.4	7.6	9.1	10.0	11.4	15.8	20.7	10.5
O & M BUREAU OF RECLAMATION	-	-	-	-	-	-	-	-	-
OTHER (NW POWER AND CONSERVATION COUNCIL)	-	0.2	2.9	2.9	2.4	3.1	3.0	3.2	3.4
REIMBURSABLE	15.0	6.1	11.5	14.2	16.0	19.9	23.7	29.7	19.0
TOTAL OPERATING EXPENSES	17.3	8.4	16.1	28.3	35.6	35.8	43.3	51.9	37.8
PROGRAM RELATED FIXED EXPENSES ^{6/}									
INTEREST EXPENSE	15.0	6.4	9.2	12.1	12.7	15.3	17.1	22.2	24.3
AMORTIZATION EXPENSE	-	-	-	-	-	0.1	0.5	0.8	1.1
DEPRECIATION EXPENSE	9.0	2.4	3.2	3.8	3.9	4.3	4.5	5.5	5.6
FIXED EXPENSES	24.0	8.8	12.4	15.9	16.6	19.7	22.1	28.5	31.0
GRAND TOTAL PROGRAM EXPENSES	41.3	17.2	28.5	39.2	52.2	55.5	65.4	80.4	68.8
FORGONE REVENUES AND POWER PURCHASES									
FORGONE REVENUES	-	3.0	14.0	1.0	8.0	27.0	19.0	9.0	10.0
BPA POWER PURCHASES	-	-	-	-	12.0	17.0	74.0	11.0	40.0
TOTAL FORGONE REVENUES AND POWER PURCHASES	-	3.0	14.0	1.0	20.0	44.0	93.0	20.0	50.0
TOTAL PROGRAM EXPENSES, FORGONE REVENUES, & POWER PURCHASES	41.3	20.2	42.5	40.2	72.2	99.5	158.4	100.4	118.8
CREDITS									
4(h)(1)(C)									
FISH COST CONTINGENCY FUND									
TOTAL CREDITS	-	-	-	-	-	-	-	-	-

This information has been made publicly available by BPA on 03/01/2007.

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, fu
 2/ Capitalization of PISCES development costs. These costs were previously reflected in the "BPA DIRECT FISH AND WILDLIFE PROGRAM" in years prior to 2006
 3/ 2006 figure includes \$300 million for the CREM study costs FAS 71 asset
 4/ Includes High Priority and Action Plan Expenses and other supplemental programs including PBL contribution to Pikeminnow reward program
 5/ "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, with BPA's direct Fish and Wildlife Program.

Source: Bonneville Power Administration

Table 1A Cumulative and Total Annual Expenditures (continued from previous page)

Bonneville Fish and Wildlife Costs

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	
	8.3	16.2	17.7	11.2	17.3	20.5	32.5	26.0	28.1	22.0	14.7	13.9	16.5	6.1	11.6	8.5	12.2	35.4
																		0.9
	5.3	4.5	4.0	85.8	39.4	39.3	45.1	(42.6)	-	14.1	47.0	6.2	8.8	68.4	75.9	53.8	360.0	
	13.6	20.7	21.7	12.1	103.1	59.9	71.8	(14.5)	22.0	28.8	60.9	22.7	14.9	80.0	84.4	66.0	396.3	
	23.0	32.8	33.0	67.0	49.6	55.9	71.4	68.5	82.2	104.9	108.2	101.1	137.1	140.7	137.9	135.8	137.9	
												2.9	7.1	6.5	7.8	0.0	0.0	
	7.6	8.3	8.7	11.2	12.4	12.7	11.5	11.8	11.4	13.0	12.4	12.7	14.9	15.1	17.3	17.2	20.1	
	12.3	11.5	11.8	13.3	14.0	16.9	17.8	18.2	18.5	19.9	19.7	23.1	28.2	30.3	32.3	32.5	31.8	
	-	-	-	-	1.2	1.3	1.3	1.5	2.7	2.6	1.8	3.0	3.8	3.1	3.9	3.9	4.5	
	3.7	3.6	3.8	3.9	4.1	4.3	4.2	3.7	3.7	3.4	3.7	3.7	4.0	4.0	3.7	4.3	4.3	
	23.6	23.4	24.3	28.4	30.5	34.9	36.1	35.9	36.4	38.9	37.6	42.5	50.9	52.6	57.2	57.9	60.7	
	46.6	56.2	57.3	95.4	80.1	90.8	107.5	103.9	141.3	147.1	145.8	146.5	195.1	199.8	202.9	193.7	198.6	
	24.5	26.0	29.2	31.4	40.6	46.1	44.9	51.1	48.9	49.4	48.4	49.1	48.5	49.9	53.3	56.4	53.4	
	1.7	2.4	3.6	4.8	5.5	6.8	8.5	10.6	12.4	14.1	15.3	16.1	17.2	17.4	17.5	17.4	17.4	
	5.7	5.9	5.4	5.7	7.5	8.4	10.2	11.4	11.1	11.4	11.8	12.3	12.5	13.2	14.6	15.9	16.7	
	31.9	34.3	38.2	41.9	53.6	61.3	63.6	73.1	76.3	74.1	76.3	78.2	78.2	80.5	85.4	89.7	87.5	
	78.5	90.5	95.5	137.3	133.7	152.1	171.1	177.0	215.4	223.2	222.1	224.7	273.3	280.3	288.3	283.4	286.1	
	15.0	15.0	15.0	23.0	45.0	62.0	71	81.7	107.8	116.5	197.8	193.1	115.9	12.6	21.7	182.1	397.4	
	40.0	40.0	40.0	59.0	104.0	111.7	63.5	-	5.4	47.6	64.8	1,389.6	147.8	171.1	191.0	110.8	168.2	
	55.0	55.0	82.0	149.0	173.7	70.6	81.7	107.8	121.9	245.4	257.9	1,505.5	160.4	250.3	212.7	292.9	565.6	
	133.5	145.5	150.5	219.3	282.7	325.8	241.7	258.7	337.3	468.6	480.0	1,790.2	433.7	530.6	501.0	576.3	851.7	
							(45.2)	(25.5)	(35.7)	(46.0)	(50.4)	(336.6)	(66.4)	(96.2)	(77.6)	(57.7)	(76.4)	
												(246.5)	-	(78.7)	-	-	0.0	
	-	-	-	-	-	-	(45.2)	(25.5)	(29.7)	(46.0)	(50.4)	(583.1)	(66.4)	(174.9)	(77.6)	(57.7)	(76.4)	

Source: Bonneville Power Administration

Table 1B Program Support

Province		Project Type	Account		Grand Total
			Capital	Expense	
BPA Program Support		Coordination	\$ 1,141	\$ 9,651,305	\$ 9,652,446
		Monitoring	\$	\$ 617,012	\$ 617,012
		Research and Evaluation	\$	\$ 631,991	\$ 631,991
Bpa Program Support Sum			\$ 1,141	\$ 10,900,308	\$ 10,901,449
Systemwide		Coordination	\$	\$ 2,450,685	\$ 2,450,685
		Data Management	\$	\$ 10,771	\$ 10,771
		Research and Evaluation	\$	\$ 751,507	\$ 751,507
Systemwide Sum			\$	\$ 3,212,963	\$ 3,212,963
Grand Total, 2006			\$ 1,141	\$ 14,113,271	\$ 14,114,412

Source: Bonneville Power Administration

Table 2 Expenditures by Species, 1978-2006

Fiscal Year	Anadromous Fish	Resident Fish	Wildlife	Total
1978	\$400,000	\$0	\$0	\$400,000
1979	\$979,628	\$0	\$0	\$979,628
1980	\$1,232,775	\$0	\$0	\$1,232,775
1981	\$1,512,801	\$251,000	\$0	\$1,763,801
1982	\$5,349,333	\$335,930	\$0	\$5,685,263
1983	\$7,222,161	\$1,441,440	\$789,026	\$9,452,627
1984	\$16,675,925	\$1,263,895	\$589,066	\$18,528,886
1985	\$19,945,958	\$3,571,308	\$553,022	\$24,070,288
1986	\$22,208,357	\$3,779,463	\$1,009,667	\$26,997,487
1987	\$26,560,517	\$591,182	\$1,149,655	\$28,301,354
1988	\$15,848,972	\$6,389,391	\$1,040,601	\$23,278,964
1989	\$25,225,428	\$3,016,827	\$2,053,497	\$30,295,752
1990	\$27,737,779	\$7,795,641	\$1,058,418	\$36,591,838
1991	\$38,973,827	\$2,028,859	\$2,530,970	\$43,533,656
1992	\$53,119,662	\$3,550,209	\$12,847,109	\$69,516,980
1993	\$51,129,495	\$5,457,600	\$8,936,699	\$65,523,794
1994	\$51,044,466	\$7,072,137	\$16,090,951	\$74,207,554
1995	\$49,894,315	\$8,692,253	\$10,206,415	\$68,792,983
1996	\$83,769,352	\$7,962,544	\$14,815,773	\$106,567,669
1997	\$66,524,626	\$12,944,597	\$16,615,431	\$96,084,654
1998	\$85,533,382	\$20,991,620	\$12,675,870	\$119,200,872
1999	\$82,415,426	\$14,850,466	\$13,443,429	\$110,709,321
2000	\$80,591,738	\$15,808,570	\$6,022,069	\$102,422,377
2001	\$86,707,688	\$12,348,834	\$12,117,092	\$111,173,614
2002	\$103,474,620	\$17,568,123	\$9,413,746	\$130,456,489
2003	\$105,384,293	\$22,764,723	\$7,670,918	\$135,819,935
2004	\$96,206,585	\$18,899,368	\$10,659,908	\$125,765,860
2005	\$101,172,351	\$20,236,591	\$13,278,339	\$134,687,281
2006	\$106,630,937	\$26,688,291	\$26,842,908	\$173,276,548
Total	\$1,413,492,398	\$245,300,861	\$202,410,679	\$1,875,318,250

* Totals for 2001-03 include program support and other costs, as indicated below. These costs were not separately reported by Bonneville before 2001.

FY	External Program Support 1	BPA Program Support 2	Other 3
2000	\$2,737,207	\$16,356,411	\$566,751
2001	\$1,215,601	\$5,207,617	\$21,425
2002	\$1,699,568	\$11,096,041	
2003	\$4,460,374	\$12,041,388	
2004	\$10,019,553	\$10,648,717	\$19,143
2005	\$2,354,004	\$10,990,758	
2006	\$3,212,963	\$10,901,449	
Total	\$25,699,269	\$77,242,380	\$607,319

- 1 External Program Support includes tasks such as data management that support all programs
- 2 BPA Program Support includes contracted tasks such as program review and independent analysis, as well as BPA internal overhead such as personnel costs
- 3 Expenses not otherwise categorized

Source: Bonneville Power Administration

Table 3 Expenditures by Category, 2003-2006 Excluding Action-Plan and High-Priority Projects

General Purpose	FY 2003	FY 2004	FY 2005	FY 2006
Coordination	\$6,403,588	\$5,760,114	\$6,594,675	\$7,126,067
Data Management	\$236,896	\$558,731	\$906,578	\$160,439
Habitat	\$39,500,655	\$40,306,108	\$44,898,740	\$67,288,171
Harvest	\$1,957,396	\$2,666,015	\$1,611,232	\$2,865,380
Mainstem Survival	\$3,639,242	\$3,228,871	\$4,112,685	\$22,117,979
Monitoring	\$20,930,630	\$17,189,343	\$18,008,894	\$36,003,557
Production	\$34,939,205	\$32,185,286	\$33,085,526	\$28,087,509
Research and Evaluation	\$32,672,718	\$33,890,947	\$27,683,912	\$9,627,446*
BPA Program Support	\$12,041,388	\$10,648,717	\$10,990,758	\$158,184
Other				
Total	\$152,321,697	\$146,434,130	\$148,051,186	\$173,275,548

Source: Bonneville Power Administration

* Does not include program support for monitoring and evaluation.

Table 4 Expenditures by Province, 1978-2006

Province	1978-2005	2003	2004	2005	2006
Systemwide	\$65,088,727	\$41,021,491	\$42,375,167	\$39,508,689	\$40,907,651
Columbia Plateau	\$470,870,841	\$28,530,634	\$25,395,810	\$27,057,099	\$29,180,056
Mountain Snake	\$229,071,527	\$20,023,083	\$17,908,414	\$17,157,162	\$17,847,701
Intermountain	\$104,513,786	\$12,884,976	\$13,116,278	\$18,225,072	\$21,567,550
Mountain Columbia	\$89,090,066	\$8,040,476	\$6,897,321	\$7,004,651	\$22,062,063
Blue Mountain	\$88,012,973	\$9,399,860	\$6,895,057	\$8,236,701	\$9,380,167
Columbia Gorge	\$54,123,708	\$6,487,780	\$4,947,368	\$5,103,954	\$5,336,398
Columbia Cascade	\$41,420,769	\$3,454,315	\$5,153,736	\$4,548,526	\$5,634,292
Lower Columbia	\$39,575,193	\$4,205,860	\$6,006,986	\$3,374,505	\$3,719,790
Columbia Estuary	\$29,527,952	\$3,289,408	\$5,008,417	\$4,295,766	\$4,323,443
Upper Snake	\$19,591,601	\$1,064,601	\$345,252	\$659,919	\$653,051
Middle Snake	\$21,108,519	\$1,877,824	\$1,735,608	\$1,565,370	\$1,782,938
Total	\$1,772,005,662	\$140,280,309	\$135,765,413	\$136,737,413	\$162,375,100
Program Support	\$63,808,965	\$12,041,388	\$10,648,717	\$10,990,758	\$10,901,449

Source: Bonneville Power Administration

Table 5A Expenditures by Prime Contractor - 1978-2005

Contractor Type	Prime Contractor	1979-2005	Contractor Type	Prime Contractor	1979-2005
FEDERAL	NATIONAL MARINE FISHERIES SVC	\$112,757,626	TRIBE	NEZ PERCE TRIBE	\$120,908,028
	NON-CONTRACTED BPA OVERHEAD	\$102,466,466		YAKAMA INDIAN NATION	\$115,578,367
	FISH & WILDLIFE SERVICE	\$70,252,285		UMATILLA CONFEDERATED TRIBES	\$53,203,928
	BUREAU OF RECLAMATION	\$44,655,717		COLVILLE CONFEDERATED TRIBES	\$40,896,401
	CORP OF ENGINEERS	\$25,878,299		WARM SPRINGS TRIBES	\$32,336,247
	DEPARTMENT OF ENERGY	\$29,934,347		KOOTENAI TRIBE OF IDAHO	\$23,465,457
	FOREST SERVICE	\$25,881,772		SPOKANE TRIBE OF INDIANS	\$22,607,606
	OTHER	\$25,315,289		SHOSHONE-BANNOCK TRIBES	\$21,211,832
	US GEOLOGICAL SURVEY	\$9,161,792		KALISPEL TRIBE OF INDIANS	\$16,538,235
	TOTAL	\$446,303,594		COEUR D'ALENE TRIBE OF IDAHO	\$14,121,672
STATE	OREGON DEPARTMENT OF FISH & WILDLIFE	\$180,222,001		COLUMBIA RIVER INTERTRIBAL FISH COMMISSION	\$13,586,142
	OREGON STATE POLICE - FISH & WILDLIFE	\$3,480,952		SHOSHONE-PAIUTE TRIBES	\$9,378,008
	OREGON WATER TRUST	\$1,004,400		BURNS PAIUTE TRIBE	\$8,618,562
	OREGON DEPARTMENT OF ENERGY	\$193,707		SALISH-KOOTENAI TRIBES	\$4,491,425
	OREGON DEPARTMENT OF TRANSPORTATION	\$106,422		POINT NO POINT TRIBE	\$11,960
	OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY	\$186,618		TULALIP TRIBE	\$4,988
	OREGON DEPARTMENT OF PARKS & RECREATION	\$5,367		KLAMATH TRIBE / CHEHALIS INDIAN TRIBE	\$4,512
	Subtotal	\$185,199,466		CHEHALIS INDIAN TRIBE	\$2,082
	IDAHO DEPARTMENT OF FISH & GAME	\$113,755,528		SQUAXIN ISLAND TRIBE	\$1,304
	IDAHO SOIL & WATER CONSERVATION COMMISSION	\$7,083,530		TOTAL	\$496,966,756
	IDAHO STATE OFFICE OF SPECIES CONSERVATION	\$154,140	INTERSTATE COMPACT	Pacific States Marine Fisheries Commission	\$178,261,176
	IDAHO STATE HISTORICAL SOCIETY	\$31	UNIVERSITY	University	\$48,857,807
	Subtotal	\$120,993,229	OTHER	Private/Other	\$144,624,542
	WASHINGTON DEPARTMENT OF FISH & WILDLIFE	\$86,713,503		Local/Semi governmental	\$54,185,351
	WASHINGTON DEPARTMENT OF ECOLOGY	\$6,077,932		Utility	\$24,804,622
	WASHINGTON WILDLIFE COALITION MEMBERS	\$3,445,738		COLUMBIA BASIN FISH & WILDLIFE FDN	\$22,444,005
	WASHINGTON STATE CONSERVATION COMMISSION	\$694,411		Not Specified (Land)	\$13,163,259
	WASHINGTON DEPARTMENT OF ECOLOGY	\$542,633		NATIONAL FISH & WILDLIFE FOUNDATION	\$6,658,199
	WASHINGTON STATE ENERGY OFFICE	\$242,857		TOTAL	\$295,711,855
	WASHINGTON DEPARTMENT OF TRANSPORTATION	\$101,700		GRAND TOTAL	\$1,881,978,553
	WASHINGTON DEPARTMENT OF NATURAL RESOURCES	\$5,000			
	Subtotal	\$97,823,775			
	MONTANA DEPARTMENT OF FISH & WILDLIFE	\$33,692,166			
	MONTANA FISH, WILDLIFE & PARKS	\$8,000,606			
	Subtotal	\$41,692,772			
	TOTAL	\$445,709,243			

Source: Bonneville Power Administration

Table 5B Expenditures by Contractor, * 1996-2005

Contractor	Total	Contractor	Total
PACIFIC STATES MARINE FISH COMMISSION	\$125,139,170	COLUMBIA RIVER INTERTRIBAL FISH COMMISSION	\$4,932,208
NEZ PERCE TRIBE	\$106,871,800	CONFEDERATED TRIBES OF THE UMATILLA INDI	\$4,660,809
OREGON DEPARTMENT OF FISH & WILDLIFE- HQ	\$95,214,332	OREGON STATE UNIVERSITY	\$4,569,772
YAKAMA NATION	\$84,808,722	US DOE RICHLAND OPERATIONS OFC	\$4,368,203
IDAHO DEPARTMENT OF FISH & GAME	\$72,093,146	MWH AMERICAS INC	\$4,268,094
WASHINGTON DEPARTMENT OF FISH & WILDLIFE	\$60,107,370	IDAHO SOIL & WATER CONSERVATION COMMISSION	\$4,200,607
NATIONAL MARINE FISHERIES SERVICE - SEATTLE OFFICE	\$43,471,177	US DOI GEOLOGICAL SURVEY	\$4,073,408
UMATILLA CONFEDERATED TRIBES	\$37,672,049	DEPT OF FISHERIES & OCEANS (CANADIAN)	\$3,622,330
WARM SPRINGS TRIBES	\$30,071,485	WESTLAND IRRIGATION DISTRICT	\$3,548,255
COLUMBIA BASIN FISH & WILDLIFE FOUNDATION	\$24,547,813	CONCORD CONSTRUCTION, INC	\$3,540,383
KOOTENAI TRIBE of IDAHO	\$21,982,314	CONFEDERATED TRIBES OF THE	\$3,238,699
SPOKANE TRIBE of INDIANS	\$18,241,907	COLUMBIA RIVER INTER-TRIBAL	\$3,083,377
BONNEVILLE POWER ADMINISTRATION - FISH AND WILDLIFE PROGRAM SUPPORT	\$16,902,020	CONFEDERATED TRIBES AND BANDS OF THE	\$3,073,595
PACIFIC NORTHWEST ELECTRIC POWER &	\$16,848,350	IDAHO DEPARTMENT OF FISH & GAME / KALISPEL TRIBE	\$2,861,571
NATT MCDUGALL COMPANY	\$15,196,356	UNIVERSITY of IDAHO	\$2,623,622
US FISH AND WILDLIFE SERVICE - PORTLAND REGION	\$15,876,408	SLAYDEN CONSTRUCTION INC	\$2,582,316
NATIONAL MARINE FISHERIES SERVICE - PORTLAND OFFICE	\$15,120,271	US FISH AND WILDLIFE SERVICE - FISHERIES PROGRAM OFFICE	\$2,561,689
UNIVERSITY of WASHINGTON	\$14,860,289	ASOTIN COUNTY CONSERVATION DISTRICT	\$2,390,714
KALISPEL TRIBE of INDIANS	\$13,398,991	LOWER COLUMBIA RIVER ESTUARY PARTNERSHIP	\$2,344,881
BONNEVILLE POWER ADMINISTRATION - TRANSMISSION BUSINESS LINE	\$12,148,701	UNDERWOOD CONSERVATION DISTRICT	\$2,333,575
COEUR D'ALENE TRIBE of IDAHO	\$11,860,217	US GEOLOGICAL SURVEY	\$2,314,513
SHOSHONE-BANNOCK TRIBES	\$11,133,279	DESTRON - FEARING	\$2,254,524
IMPERO CONSTRUCTION COMPANY	\$10,754,217	ESSA TECHNOLOGIES LTD.	\$2,227,191
FISHPRO, INC.	\$10,716,321	CONTRACTOR UNKNOWN TO EMIS	\$2,167,074
US DEPT. OF ENERGY - BATTLE PACIFIC NORTHWEST LABORATORY - (RICHLAND)	\$10,459,556	CLATSOP ECONOMIC DEVELOPMENT COMMITTEE	\$2,152,615
NATIONAL BIOLOGICAL SERVICE / USFWS - NATIONAL FISH RESEARCH CENTER - SEATTLE	\$10,289,413	NATURE CONSERVANCY - MONTANA	\$2,101,220
US BUREAU OF RECLAMATION - PACIFIC NW REGION (BOISE)	\$9,844,736	CITY OF YAKIMA	\$2,049,515
MONTGOMERY WATSON	\$9,686,763	PACIFIC POWER & LIGHT/UECA	\$1,994,000
US DOI FISH & WILDLIFE SERVICE	\$9,549,413	COEUR D'ALENE TRIBE OF INDIANS	\$1,992,180
NORTHWEST POWER AND CONSERVATION COUNCIL	\$9,152,253	NEZ PERCE SOIL & WATER CONSERVATION DISTRICT	\$1,832,377
NATIONAL MARINE FISHERIES SVC	\$9,067,769	LEMHI SOIL & WATER CONSERVATION DISTRICT	\$1,787,083
BURNS PAIUTE TRIBE	\$8,460,439	WASHINGTON STATE UNIVERSITY	\$1,750,237
CONFEDERATED TRIBES AND BANDS OF THE YAK	\$8,203,148	BIOANALYSTS INC (D. CHAPMAN)	\$1,675,879
SHOSHONE-PAIUTE TRIBES	\$7,813,863	KITTITAS-YAKIMA RES CONS & DEV	\$1,666,998
CUSTER SOIL & WATER CONSERVATION DISTRICT	\$7,663,955	CONFEDERATED SALISH-KOOTENAI TRIBES	\$1,651,272
US ARMY CORPS OF ENGINEERS - PORTLAND DISTRICT	\$7,411,930	U.S. FOREST SERVICE	\$1,639,797
NATIONAL FISH & WILDLIFE FOUNDATION	\$7,367,824	MONTANA FISH, WILDLIFE & PARKS / CONFEDERATED SALISH-KOOTENAI TRIBES	\$1,606,434
WASHINGTON DEPT OF ECOLOGY	\$6,408,371	USFS - PACIFIC NW RESEARCH STATION	\$1,577,145
MONTANA FISH, WILDLIFE & PARKS	\$6,089,021	PAULSEN ENVIRONMENTAL RESEARCH	\$1,518,287
UMATILLA ELECTRIC COOP ASSOCIATION	\$5,697,907	IDAHO STATE CONSERVATION COMMISSION	\$1,495,304
DIGITAL-ANGEL CORPORATION	\$5,621,125	YAKIMA CO-OP	\$1,479,863
CH2M HILL - NORTHWEST INC.	\$5,109,234	PORTLAND GENERAL ELECTRIC	\$1,396,282
	\$5,043,703	WASCO COUNTY SOIL & WATER CONSERVATION DISTRICT	\$1,360,528
		OREGON STATE UNIVERSITY / CUMULATIVE RISK INITIATIVE	\$1,360,009

Source: Bonneville Power Administration

Table 5B Expenditures by Contractor 1996-2005 (continued)

Contractor	Total	Contractor	Total
COLUMBIA COUNTY SOIL & WATER CONSERVATION DISTRICT	\$1,331,566	US DOI NW BIOLOGICAL SCIENCE CENTER	\$556,552
WALLOWA COUNTY SOIL & WATER CONSERVATION DISTRICT	\$1,283,803	USFS - UMATILLA NATIONAL FOREST	\$534,198
US DOI BUREAU OF RECLAMATION	\$1,271,869	EASTERN OREGON STATE COLLEGE	\$521,423
USDA FOREST SERVICE	\$1,258,457	YAKAMA NATION FISHERIES PROJECT	\$515,366
S CENTRAL WASHINGTON RESOURCE CONSERVATI	\$1,215,855	SYNERGY CONSULTING INC	\$511,623
US BUREAU OF RECLAMATION (WA)	\$1,205,799	MILLER ECOLOGICAL CONSULTANTS	\$507,552
US GEO. SURVEY - BIOLOGICAL RESOURCES DIV. - COLUMBIA RIVER RESEARCH LAB	\$1,204,305	LATAH SOIL & WATER CONSERVATION DIST	\$506,862
USDA - NATURAL RESOURCES CONSERVATION SERVICE	\$1,169,780	TRANSNATION TITLE INSURANCE CO	\$500,000
INTERMOUNTAIN COMMUNICATIONS	\$1,116,616	UNION COUNTY	\$480,024
MONTANA DEPT FISH WILDLIFE & PARKS	\$1,111,885	WALLA WALLA COUNTY CONSERVATION DISTRICT	\$474,928
PACIFIC POWER & LIGHT COMPANY	\$1,107,973	US GEOLOGICAL SURVEY - BIOLOGICAL RESOURCES DIVISION	\$468,198
NORTHWEST FISHERIES SCIENCE CENTER	\$1,037,476	UNISYS CORPORATION	\$445,509
JEFFERSON COUNTY SOIL & WATER CONSERVATION DISTRICT	\$1,026,185	USFS - GIFFORD PINCHOT NAT. FOREST - MT ADAMS RANGER DISTRICT, WIND RIVER DIV.	\$444,891
CASCADE PACIFIC RESOURCE	\$1,016,797	FISHER FISHERIES LTD.	\$432,167
HARZA NORTHWEST INC	\$1,010,802	MOBRAND BIOMETRIC, INC.	\$430,780
POMERoy SOIL & WATER WATER CONSERVATION DISTRICT	\$983,310	TICOR TITLE INSURANCE COMPANY	\$430,000
US FISH AND WILDLIFE SERVICE - DENVER REGION	\$978,033	EDUCATIONAL SERVICES DISTRICT #105 (YAKIMA)	\$427,427
UNION COUNTY SOIL & WATER CONSERVATION DISTRICT	\$941,543	WASHINGTON TROUT	\$415,446
US FISH AND WILDLIFE SERVICE - AHSARKA	\$937,531	RESEARCH INTO ACTION	\$414,555
LAKE ROOSEVELT DEVELOPMENT ASSOCIATION	\$916,393	HES	\$412,682
KINTAMA RESEARCH CORPORATION	\$893,888	M-F WATER CONTROL DISTRICT	\$400,000
US DEPARTMENT OF ENERGY - OAK RIDGE NATIONAL LABORATORY	\$881,687	USFS - MT. HOOD NATIONAL FOREST	\$391,000
LEWIS SOIL & WATER CONSERVATION DISTRICT	\$878,996	BIOMARK INC.	\$384,762
OREGON WATER TRUST	\$878,078	CLATSOP CTY ECONOMIC DEVL CNCL	\$384,653
SANDPOINT TITLE INSURANCE INC	\$850,356	PER LTD.	\$376,374
USFS - WALLOWA-WHITMAN NATIONAL FOREST - LAGRANDE DISTRICT,	\$838,422	STEPHEN H. SMITH FISHERIES CONSULTING, INC.	\$369,498
USFS - FLATHEAD NATIONAL FOREST	\$837,468	WASHINGTON WATER TRUST	\$365,912
WYEAST RESOURCE CONSERVATION & DEVELOPMENT COUNCIL	\$836,333	JEFF KUECHLE	\$360,691
MOSS-ADAMS ADVISORY SERVICES	\$819,207	SHERMAN SOIL & WATER CONSERVATION DISTRICT	\$360,578
S. P. CRAMER & ASSOCIATES	\$806,021	RICHARD HINRICHSEN	\$344,480
IRZ CONSULTING LLC	\$784,663	USFS - INTERMOUNTAIN REGION (4) - OGDEN	\$340,057
US FISH AND WILDLIFE SERVICE - FISH ASST. VANCOUVER	\$775,613	ALLIANCE TITLE & ESCROW CORP	\$336,000
CUSTER COUNTY TITLE INC	\$764,616	CITY OF SCAPPOOSE	\$329,060
KITTITAS COUNTY WATER PURVEYORS	\$730,000	DONNA SILVERBERG	\$328,212
WALLA WALLA BASIN WATERSHED COUNCIL	\$728,047	ENVIRONMENTAL SCIENCE ASSOCIATES	\$303,102
CANADA DEPARTMENT OF FISHERIES & OCEANS	\$684,700	USFS - MT HOOD NATIONAL FOREST - HOOD RIVER RANGER DISTRICT	\$296,082
SHOSHONE-PAIUTE TRIBES OF DUCK VALLEY RE	\$651,766	THE NATURE CONSERVANCY - OR	\$295,917
CLEARWATER FOCUS WATERSHED PROGRAM	\$641,749	ROCKY MOUNTAIN RESEARCH STATION	\$291,370
COLUMBIA CONSERVATION DISTRICT	\$637,188	CIBER INC	\$288,324
WALLA WALLA COUNTY SOIL AND WATER CONSERVATION DISTRICT	\$624,166	ROBERT HALF TECHNOLOGY	\$285,200
IDAHO DEPARTMENT OF FISH & GAME / KOOTENAI	\$610,923	WASHINGTON STATE CONSERVATION COMMISSION.	\$284,479
US BUREAU OF RECLAMATION - YAKIMA	\$580,303	FIRST AMERICAN TITLE CO	\$283,800
US SMALL BUSINESS ADMINISTRATION	\$573,849	KITTITAS COUNTY CONSERVATION DISTRICT	\$283,359
		P.A.C.E.	\$276,905

Source: Bonneville Power Administration

Table 5B Expenditures by Contractor 1996-2005 (continued)

Contractor	Total	Contractor	Total
ECO-NORTHWEST	\$276,345	TEASDALE ENVIRONMENTAL	\$174,144
NEZ TRIBAL TRIBAL FISHERIES/WATERSHED PROGRAM	\$270,293	NATURAL RESOURCES CONSERVATION SERVICE	\$173,044
WALLOWA RESOURCES INC	\$267,687	LAKE ROOSEVELT FORUM	\$172,292
GILLIAM SOIL AND WATER CONSERVATION DISTRICT	\$264,857	GARDENA FARMS IRRIGATION DISTRICT #13	\$171,435
MORROW COUNTY SOIL AND WATER CONSERVATION DISTRICT	\$263,061	EASTERN OREGON UNIVERSITY	\$171,219
KOOTENAI RIVER NETWORK INC	\$261,402	NEZ PERCE SOIL & WATER	\$169,035
HINRICHSN ENVIRONMENTAL SERVICES	\$259,481	US ARMY CORPS OF ENGINEERS - WALLA WALLA DIST	\$165,938
US ARMY CORE OF ENGINEERS - NORTHWEST DIVISION	\$250,760	NORTHWEST HABITAT INSTITUTE	\$164,281
JONES & STOKES ASSOCIATES	\$248,968	GOLDEN PACIFIC HOMES	\$160,000
BIOANALYSTS INC	\$244,591	IDAHO STATE OFFICE OF SPECIES CONSERVATION	\$154,140
EASTERN WASHINGTON UNIVERSITY - ARCHAEOLOGY & HISTORY DEPARTMENT	\$241,176	CHELAN COUNTY CONSERVATION DISTRICT	\$152,788
WHEELER SOIL AND WATER CONSERVATION DISTRICT	\$238,941	KRUGEL & ASSOCIATES	\$152,000
DSCONSULTING	\$238,197	RHI MANAGEMENT RESOURCES	\$147,432
ESD105	\$232,500	CASCADE PACIFIC RESC CONSV & DEVL INC	\$143,487
GRANDE RONDE MODEL WATERSHED FOUNDATION	\$223,463	OXARC	\$143,340
COLUMBIA RIVER ESTUARY STUDY TASKFORCE	\$218,250	USFS - NEZ PERCE NATIONAL FOREST	\$142,878
MARKS & MARKS	\$218,020	NATIONAL SYS & RESEARCH	\$141,574
RESOURCE CONSERVATION & DEVELOPMENT	\$217,584	TERRAQUA INC	\$140,520
US FISH AND WILDLIFE SERVICE - (LONGVIEW WA)	\$214,203	D J WARREN & ASSOCIATES INC	\$137,864
HUDSON BAY DISTRICT IMPROVEMENT CO INC	\$213,423	RICK APPELEGATE	\$136,100
USFS - PACIFIC NW REGION (6) - PORTLAND	\$213,180	JEAN EDWARDS	\$135,711
NSRI	\$208,915	ARCHAEOLOGICAL & HISTORICAL SERVIVE	\$127,894
WALLOWA PUBLIC WORKS DEPARTMENT	\$206,426	DS CONSULTING	\$124,650
SEA RESOURCES INC	\$203,659	UNIVERSITY OF ALASKA FAIRBANKS	\$122,421
UNION COUNTY PUBLIC WORKS DEPARTMENT	\$203,650	ADVANCED TELEMETRY SYSTEMS INC	\$122,027
CRATE'S POINT	\$200,000	SUNDAY & ASSOCIATES INC	\$121,137
KENNETH STINSON, LATAH SOIL AND WATER CONSERVATION DISTRICT	\$200,000	SHAPIRO & ASSOCIATES INC	\$120,983
NORTON-ARNOLD & COMPANY	\$196,214	BC/ MINISTRY ENVIRONMENT LAND AND PARKS	\$117,449
COLUMBIA SOIL & WATER CONSERVATION DISTRICT	\$196,036	GORGE EARTHWORKS INC	\$116,082
WALLOWA COUNTY	\$189,922	ENERGY NEWSDATA INC	\$114,600
KATHLEEN A CONCANNON	\$188,422	SUN WEST PRODUCTIONS	\$113,998
COLE & WEBER	\$188,237	PACIFIC WATERSHED INSTITUTE	\$112,620
OREGON DEPT OF ENVIRONMENTAL QUALITY - BUSINESS OFFICE	\$186,618	FOSTER WHEELER ENVIRONMENTAL CO	\$101,955
OREGON HEALTH SCIENCES UNIV	\$184,796	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION	\$101,700
MINISTRY OF WATER LAND AND AIR PROTECTIO	\$184,384	JAMES J ANDERSON MD	\$100,000
LEMHI IRRIGATION DISTRICT	\$182,938	US DEPT OF JUSTICE	\$100,000
USFWS - CRESTON NATIONAL FISH HATCHERY	\$181,088		
UNIVERSITY of MONTANA	\$180,539		
MONUMENT SOIL & WATER CONSERVATION DISTRICT	\$174,704		

* Contracts under \$100,000 are not listed.

Source: Bonneville Power Administration

Table 5C Expenditures by Contractor 2006 (continued on next page)

Sum of Sum BU Amount	Account	Capital	Expense	Grand Total
Vendor Type	Sponsor			
Edu	Oregon State University	\$	657,918	\$ 657,918
	Washington State University	\$	212,622	\$ 212,622
Edu Total		\$	870,540	\$ 870,540
Govt - Federal	Ministry of Water Land and Air Protection	\$	34,746	\$ 34,746
	National Oceanic and Atmospheric Administration (NOAA)	\$	11,520,815	\$ 11,520,815
	Pacific States Marine Fisheries Commission (PSMFC)	\$	(17,038)	\$ 14,931,025
	US Department of Agriculture (USDA)	\$	142,378	\$ 142,378
	US Department of Energy (DOE)	\$	657,652	\$ 657,652
	US Fish and Wildlife Service (USFWS)	\$	1,911,471	\$ 1,911,471
	US Geological Survey (USGS)	\$	87,930	\$ 87,930
Govt - Federal Total		\$	(17,038)	\$ 29,286,017
Govt - Local	Chelan County Conservation District	\$	50,380	\$ 50,380
	Columbia County Soil and Water Conservation District (SWCD)	\$	315,812	\$ 315,812
	Custer County Soil and Water Conservation District (SWCD)	\$	213,515	\$ 213,515
	Gilliam County Soil and Water Conservation District (SWCD)	\$	59,650	\$ 59,650
	Westland Irrigation District	\$	(64,463)	\$ 489,506
Govt - Local Total		\$	(64,463)	\$ 1,128,864
Govt - State	Idaho Department of Fish and Game (IDFG)	\$	318,780	\$ 14,713,487
	Idaho Soil Conservation Commission	\$	66,200	\$ 66,200
	Montana Fish, Wildlife and Parks (MIFWP)	\$	659,829	\$ 659,829
	Not Identified	\$	5,500	\$ 5,500
	Oregon Department Of Fish and Wildlife (ODFW)	\$	973,674	\$ 7,995,459
	Underwood Conservation District (UCD)	\$	-	\$ 817,524
	Washington Department of Fish and Wildlife (WDFW)	\$	1,653,458	\$ 7,458,506
Govt - State Total		\$	2,945,912	\$ 31,397,723
Non-Profit	Chewuch Basin Council	\$	463,077	\$ 463,077
	Columbia Basin Fish and Wildlife Authority (CBFWA)	\$	2,632,021	\$ 2,632,021
	Lake Roosevelt Development Association	\$	144,889	\$ 144,889
	Lake Roosevelt Forum	\$	45,000	\$ 45,000
	Lower Columbia River Estuary Partnership (LOREP)	\$	1,474,675	\$ 1,474,675
	Methow Salmon Recovery Foundation	\$	89,072	\$ 89,072
	National Fish and Wildlife Foundation	\$	4,505,022	\$ 4,505,022
	Nature Conservancy	\$	78,546	\$ 79,882
	Northwest Power and Conservation Council*	\$	518,825	\$ 518,825
	Wy'East Resource Conservation and Development Area Council	\$	60,871	\$ 60,871
Non-Profit Total		\$	78,546	\$ 10,013,334
Not Identified	Not Identified*	\$	5,341,929	\$ 16,132,819
Not Identified Total		\$	5,341,929	\$ 16,132,819
Private	Craven Consulting Group	\$	802	\$ 3,672
	D J Warren and Associates, Inc.	\$	(4,914)	\$ (4,914)

Table 5C Expenditures by Contractor 1996-2005 (continued)

Private	Eco-Northwest Fisher Fisheries Ltd. Intermountain Communications IRZ Consulting LLC Kootenai River Network, Inc. Miller Ecological Consultants, Inc. MWH Global, Inc. Paulsen Environmental Research Ltd. Sea Resources, Inc.	\$	141,311 \$ 531,274 \$ 123,750 \$ 5,517 \$ 91,368 \$ 219,981 \$ 240,881 \$ 214,131 \$ 52,262 \$	\$	141,311 \$ 531,274 \$ 123,750 \$ 5,517 \$ 91,368 \$ 219,981 \$ 240,881 \$ 214,131 \$ 52,262 \$	141,311 \$ 531,274 \$ 123,750 \$ 5,517 \$ 91,368 \$ 219,981 \$ 858,622 \$ 214,131 \$ 52,262 \$	
Private Total		\$	618,542 \$	\$	1,619,234 \$	\$	2,237,776
SWCD	Asotin County Conservation District Jefferson County Soil and Water Conservation District (SWCD) Lemhi County Soil and Water Conservation District (SWCD) Monument Soil and Water Conservation District (MSWCD) Morrow County Soil and Water Conservation District (SWCD) Okanogan Conservation District Pomeroy Conservation District Sherman County Soil and Water Conservation District (SWCD) Wasco County Soil and Water Conservation District (SWCD) Wheeler County Soil and Water Conservation District (SWCD)	\$	466,453 \$ 123,261 \$ 687,753 \$ 10,397 \$ 68,058 \$ 122,972 \$ 92,868 \$ 87,237 \$ 145,365 \$ 79,508 \$	\$	466,453 \$ 123,261 \$ 687,753 \$ 10,397 \$ 68,058 \$ 122,972 \$ 92,868 \$ 87,237 \$ 145,365 \$ 79,508 \$	466,453 \$ 123,261 \$ 687,753 \$ 10,397 \$ 68,058 \$ 122,972 \$ 92,868 \$ 87,237 \$ 145,365 \$ 79,508 \$	
SWCD Total		\$	1,883,871 \$	\$	1,883,871 \$	\$	1,883,871
Tribe	Burns-Paiute Tribe Coeur D'Alene Tribe Columbia River Inter-Tribal Fish Commission (CRITFC) Colville Confederated Tribes Confederated Tribes Of Warm Springs Kallispel Tribe Kootenai Tribe Nez Perce Tribe Salish and Kootenai Confederated Tribes Shoshone-Bannock Tribes Shoshone-Paiute Tribes Spokane Tribe Umatilla Confederated Tribes (CTUIR) Yakama Nation	\$	286,959 \$ 1,690,425 \$ 5,658,769 \$ 776,748 \$ 2,164,148 \$ 14,008,835 \$ 1,766,882 \$ 7,169 \$ 150,743 \$	\$	496,961 \$ 1,423,200 \$ 1,374,954 \$ 2,557,604 \$ 2,092,192 \$ 1,261,114 \$ 4,297,428 \$ 4,776,775 \$ 1,772,227 \$ 789,764 \$ 1,014,752 \$ 2,757,690 \$ 6,667,894 \$ 13,059,419 \$	\$	496,961 \$ 1,710,159 \$ 3,065,379 \$ 8,216,372 \$ 2,868,940 \$ 1,261,114 \$ 4,297,428 \$ 6,940,923 \$ 15,781,061 \$ 789,764 \$ 1,014,752 \$ 4,524,571 \$ 6,675,063 \$ 13,210,162 \$
Tribe Total		\$	26,510,677 \$	\$	44,341,972 \$	\$	70,852,649
Utility	Pacific Power and Light Company Portland General Electric	\$	55 \$	\$	949,369 \$ 152,144 \$	\$	949,424 \$ 152,144 \$
Utility Total		\$	55 \$	\$	1,101,514 \$	\$	1,101,568
Govt-State	Not Identified	\$		\$	5,000 \$	\$	5,000 \$
Govt-State Total		\$	5,000 \$	\$	5,000 \$	\$	5,000
Grand Total		\$	35,414,160 \$	\$	137,862,389 \$	\$	173,276,548

*These amounts are incorrect or belong in other categories. Bonneville is working to correct these errors. Source: Bonneville Power Administration

Table 6 Salmon and Steelhead Passing Bonneville Dam, 1938 - 2006

These dam counts can not be used for year-to-year comparison of abundance or population size without evaluating and quantifying the effects of hatchery production facility modifications, dam operations, dam modifications, upstream development, fisheries, counting schedules, counting techniques, between-dam counting discrepancies, counting-station modification, fishway modifications, fallback and dam-passage efficiencies.

Yearly totals of all fish passing Bonneville Dam 1938 - 1976

Year	Chinook	Steelhead	Sockeye	Coho	Year	Chinook	Steelhead	Sockeye	Coho
1938	271,799	107,003	75,040	15,185	1979	220,335	114,010	52,627	26,612
1938	271,900	107,003	75,040	15,200	1980	207,770	129,254	58,882	12,974
1939	286,200	122,032	73,382	14,400	1981	232,299	159,270	56,037	21,935
1940	391,600	185,174	148,807	11,900	1982	247,911	157,640	50,219	55,816
1941	461,400	118,089	65,741	17,900	1983	186,214	218,419	100,542	8,402
1942	401,900	151,800	55,464	12,400	1984	216,469	315,795	152,540	16,604
1943	313,100	92,133	39,845	2,500	1985	293,803	330,170	165,933	38,504
1944	240,800	100,518	15,072	4,200	1986	371,075	376,752	58,099	108,587
1945	297,500	120,133	9,501	790	1987	468,574	300,351	116,956	17,921
1946	446,000	142,807	74,376	3,900	1988	411,897	279,277	79,721	27,038
1947	480,500	135,444	171,139	11,200	1989	373,202	287,802	41,884	27,422
1948	419,500	139,062	131,541	4,100	1990	296,389	183,011	49,581	11,641
1949	277,700	119,285	51,444	1,000	1991	226,433	274,535	76,482	60,417
1950*	357,400	114,087	77,993	10,200	1992	219,688	314,974	84,992	14,369
1951*	331,800	140,689	169,428	5,200	1993	259,337	186,386	80,178	10,642
1952	420,900	260,990	184,645	7,800	1994	208,197	161,978	12,678	20,291
1953	332,500	223,914	235,215	13,000	1995	189,419	202,448	8,774	10,397
1954 1	321,000	176,260	130,107	4,100	1996	272,885	205,213	30,252	15,737
1955 2	359,800	198,411	237,748	3,700	1997	360,673	258,385	47,008	24,061
1956 3	300,900	131,116	156,418	6,100	1998	248,860	185,094	13,218	46,290
1957 4	403,200	139,183	82,915	4,700	1999	306,981	206,488	17,875	40,684
1958 5	426,400	131,437	122,389	3,700	2000	401,733	275,273	93,398	85,734
1959 6	345,000	129,026	86,560	2,700	2001	867,933	633,464	114,934	259,756
1960 7	237,600	113,676	59,713	3,268	2002	870,803	481,203	49,610	88,459
1961 8	254,300	139,719	17,111	3,456	2003	917,154	361,412	39,291	125,743
1962 9	268,100	164,025	28,179	14,788	2004	845,717	311,122	123,291	115,041
1963 10	230,500	129,418	60,319	12,658	2005	570,413	315,650	72,971	83,305
1964 11	315,600	117,252	99,856	53,602	2006	525,948	333,250	67,066	109,007
1965 12	253,400	166,453	55,125	49,400					
1966	294,700	143,661	156,661	36,972					
1967	292,700	121,872	144,158	48,505					
1968	276,400	106,974	108,207	43,030					
1969	411,300	140,782	59,636	24,162	1 Fish counting initiated Feb. 28, 1954 and discontinued Nov. 27, 1954				
1970	314,032	113,510	59,636	54,868	2 Fish counting initiated Feb. 28, 1955 and discontinued Nov. 29, 1955				
1971	328,740	193,966	70,762	53,817	3 Fish counting initiated March 1, 1956 and discontinued Dec. 1, 1956				
1972	336,037	185,886	34,216	53,817	4 Fish counting initiated March 1, 1957 and discontinued Nov. 30, 1957				
1973	318,836	157,823	56,323	34,216	5 Fish counting initiated March 2, 1958 and discontinued Nov. 30, 1958				
1974	288,410	137,054	58,979	25,849	6 Fish counting initiated March 1, 1959 and discontinued Nov. 28, 1959				
1975	350,320	85,540	43,837	31,605	7 Fish counting initiated March 1, 1960 and discontinued Nov. 30, 1960				
1976	364,907	124,177	58,212	32,772	8 Fish counting initiated March 1, 1961 and discontinued Nov. 30, 1961				
1977	281,659	193,437	43,611	36,666	9 Fish counting initiated March 1, 1962 and discontinued Nov. 30, 1962				
1978	332,323	104,431	99,829	9,325	10 Fish counting initiated March 1, 1963 and discontinued Nov. 30, 1963				
			18,436	30,278	11 Fish counting initiated March 1, 1964 and discontinued Nov. 28, 1964				
					12 Fish counting initiated March 28, 1965 and discontinued Nov. 30, 1965				

* Fish counting discontinued for annual winter maintenance on November 29, 1950.

Source: 1938 - 1976: Annual Fish Passage Reports - Corps of Engineers
1977 - 2005: Corps of Engineers, Fish Passage Center

Table 8A Estimated Survival Percentage of Juvenile Salmonids Migrating Inriver from Lower Granite to Bonneville

Year	Chinook Salmon	Steelhead	Year	Chinook Salmon	Steelhead
1966	0.46	0.56	1979	0.19	0.02
1967	0.47	0.32	1980	0.15	0.03
1968	0.45	0.43	1997		0.47
1969	0.34	0.20	1998		0.50
1970	0.17	0.24	1999	0.56	0.44
1971	0.20	0.17	2000	0.49	0.39
1972	0.09	0.09 a	2001	.28	.04
1973	0.03	0.01	2002	.58	.26
1974	0.28b	0.08	2003	.53	.31
1975	0.19b	0.27	2004	.39	0
1976	0.10	0.13	2005	.52	0
1977	0.01	0.01	2006	.61	.41
1978	0.23b	0.08			

Table 8B Estimated Survival Percentage of Juvenile Mid-Columbia Salmonids Migrating Inriver From McNary to Bonneville

Year	Chinook Salmon	Steelhead	Year	Chinook Salmon	Steelhead
1966	0.46	0.56	1979	0.19	0.02
1967	0.47	0.32	1980	0.15	0.03
1968	0.45	0.43	1997		0.47
1969	0.34	0.20	1998		0.50
1970	0.17	0.24	1999	0.56	0.44
1971	0.20	0.17	2000	0.49	0.39
1972	0.09	0.09 a	2001	0	0
1973	0.03	0.01	2002	.75	.70
1974	0.28b	0.08	2003	.77	.49
1975	0.19b	0.27	2004	.62	.53
1976	0.10	0.13	2005	0	0
1977	0.01	0.01	2006	.68	0
1978	0.23b	0.08			

Source: NOAA Fisheries

Table 9A Where Do the Fish Go? Fish Counted at Each Mainstem Dam, 2005, Hatchery and Wild Fish Combined.

Dam	Spring Chinook		Summer Chinook		Fall Chinook		Coho		Sockeye		Steelhead	
	2005	2006	2005	2006	2005	2006	2005	2006	2005	2006	2005	2006
Bonneville	78,326	83,703	83,703	521,975	88,807	88,807	72,971	403,615				
The Dalles	64,174	73,136	73,136	251,583	34,629	34,629	65,273	311,764				
John Day	58,742	69,439	69,439	194,382	37,525	37,525	69,770	287,502				
McNary	55,056	66,858	66,858	147,189	19,776	19,776	63,540	269,862				
Ice Harbor	29,306	9,817	9,817	19,238	1,621	1,621	18	190,790				
Lower Monumental	26,935	9,158	9,158	16,188	2,095	2,095	18	190,898				
Little Goose	24,918	7,961	7,961	13,674	1,992	1,992	13	174,694				
Lower Granite	27,286	7,814	7,814	14,430	2,183	2,183	18	191,760				
Priest Rapids	14,663	63,125	63,125	31,641	1,260	1,260	74,563	12,472				
Rock Island	12,412	56,476	56,476	12,054	6,580	6,580	71,226	18,855				
Rocky Reach	4,985	44,609	44,609	5,912	1,225	1,225	55,570	13,940				
Wells	4,996	31,735	31,735	3,387	348	348	55,559	9,963				

Table 9B Where do the fish go? Fish Counted at Each Mainstem Dam, 2006

Dam	Spring Chinook		Summer Chinook		Fall Chinook		Coho		Sockeye		Steelhead	
	2006	2006	2006	2006	2006	2006	2006	2006	2006	2006	2006	2006
Bonneville	97,364	101,874	101,874	324,710	109,007	109,007	37,066	417,140				
The Dalles	82,043	84,839	84,839	190,364	32,196	32,196	30,026	292,570				
John Day	52,406	77,964	77,964	158,863	33,778	33,778	35,387	269,131				
McNary	48,362	65,960	65,960	102,863	13,333	13,333	29,295	226,237				
Ice Harbor	26,309	9,085	9,085	17,107	971	971	48	150,953				
Lower Monumental	24,137	10,449	10,449	19,896	1,181	1,181	17	162,904				
Little Goose	21,569	8,752	8,752	14,374	972	972	26	149,121				
Lower Granite	23,503	7,720	7,720	14,769	1,434	1,434	17	175,827				
Priest Rapids	8,616	57,792	57,792	20,678	3,813	3,813	26,710	10,408				
Rock Island	10,126	63,907	63,907	7,743	5,597	5,597	35,132	13,466				
Rocky Reach	5,650	42,978	42,978	5,972	1,523	1,523	25,377	11,125				
Wells	4,376	27,615	27,615	5,557	409	409	22,075	9,247				

Table 9C Where Do the Fish Go? Fish Counted at Willamette Falls, 2005

Dam	Spring Chinook		Fall Chinook		Coho		Steelhead	
	2005	2005	2005	2005	2005	2005	2005	2005
Willamette Falls	36,633	1,037	1,037	1,593	19,733	19,733		

Table 9D Where Do the Fish Go? Fish Counted at Willamette Falls, 2006

Dam	Spring Chinook		Fall Chinook		Coho		Steelhead	
	2006	2006	2006	2006	2006	2006	2006	2006
Willamette Falls	37,040	2,259	2,259	7,800	73,029	73,029		

Source: Fish Passage Center

Table 10 Habitat Units Lost and Acquired by Species (continues for next eight pages).

Dam	Wildlife Species	Habitat Units Lost	Habitat Units Acquired	Percent Completed
Albeni Falls	Bald Eagle (breeding)	4,508.00	368.00	8.16%
Albeni Falls	Bald Eagle (wintering)	4,365.00	314.00	7.19%
Albeni Falls	Black-capped Chickadee	2,286.00	117.00	5.12%
Albeni Falls	Canada Goose	4,699.00	1,161.00	24.71%
Albeni Falls	Mallard	5,985.00	227.00	3.79%
Albeni Falls	Muskrat	1,756.00	82.00	4.67%
Albeni Falls	Redhead Duck	3,379.00	0.00	0.00%
Albeni Falls	White-tailed Deer	1,680.00	30.00	1.79%
Albeni Falls	Yellow Warbler	0.00	59.00	0.00%
Anderson Ranch	Black-capped Chickadee	890.00	0.00	0.00%
Anderson Ranch	Blue Grouse	1,980.00	0.00	0.00%
Anderson Ranch	Common Snipe	0.00	889.00	0.00%
Anderson Ranch	Mallard	1,048.00	81.00	7.73%
Anderson Ranch	Mink	1,732.00	0.00	0.00%
Anderson Ranch	Mule Deer	2,689.00	0.00	0.00%
Anderson Ranch	Peregrine Falcon	0.00	0.00	0.00%
Anderson Ranch	Ruffed Grouse	919.00	0.00	0.00%
Anderson Ranch	Western Meadowlark	0.00	74.00	0.00%
Anderson Ranch	Yellow Warbler	361.00	3.00	0.83%
Big Cliff	Bald Eagle	0.00	0.00	0.00%
Big Cliff	Beaver	50.00	0.00	0.00%
Big Cliff	Black-tailed Deer	81.00	0.00	0.00%
Big Cliff	Common Merganser	11.00	0.00	0.00%
Big Cliff	Osprey	0.00	0.00	0.00%
Big Cliff	Pileated Woodpecker	71.00	0.00	0.00%
Big Cliff	River Otter	38.00	0.00	0.00%
Big Cliff	Roosevelt Elk	81.00	0.00	0.00%
Big Cliff	Ruffed Grouse	81.00	0.00	0.00%
Black Canyon	Black-capped Chickadee	0.00	0.00	0.00%
Black Canyon	Canada Goose	214.00	0.00	0.00%
Black Canyon	Mallard	270.00	0.00	0.00%
Black Canyon	Mink	652.00	1.00	0.15%

Source: Bonneville Power Administration

Table 10 Habitat Units Lost and Acquired by Species (part two).

Dam	Wildlife Species	Habitat Units Lost	Habitat Units Acquired	Percent Completed
Black Canyon	Mule Deer	242.00	53.00	21.90%
Black Canyon	Ring-necked Pheasant	260.00	0.00	0.00%
Black Canyon	Sharp-tailed Grouse	532.00	0.00	0.00%
Black Canyon	Yellow Warbler	0.00	3.00	0.00%
Bonneville OR	Black-capped Chickadee	511.00	189.00	36.99%
Bonneville OR	Canada Goose	1,222.00	0.00	0.00%
Bonneville OR	Great Blue Heron	2,150.00	388.00	18.05%
Bonneville OR	Lesser Scaup	0.00	0.00	0.00%
Bonneville OR	Mink	811.00	0.00	0.00%
Bonneville OR	Red-Tailed Hawk	0.00	0.00	0.00%
Bonneville OR	Spotted Sandpiper	1,383.00	2.00	0.14%
Bonneville OR	Valley Quail	0.00	0.00	0.00%
Bonneville OR	Wood Duck	0.00	0.00	0.00%
Bonneville OR	Yellow Warbler	82.00	11.00	13.41%
Bonneville WA	Black-capped Chickadee	511.00	311.00	60.86%
Bonneville WA	Canada Goose	1,222.00	132.00	10.80%
Bonneville WA	Great Blue Heron	2,150.00	496.00	23.07%
Bonneville WA	Lesser Scaup	0.00	0.00	0.00%
Bonneville WA	Mink	811.00	168.00	20.72%
Bonneville WA	Spotted Sandpiper	1,383.00	0.00	0.00%
Bonneville WA	Yellow Warbler	82.00	1.00	1.22%
Chief Joseph	Bobcat	401.00	132.00	32.92%
Chief Joseph	Canada Goose	213.00	10.00	4.69%
Chief Joseph	Lesser Scaup	0.00	0.00	0.00%
Chief Joseph	Lewis Woodpecker	286.00	45.00	15.73%
Chief Joseph	Mink	920.00	111.00	12.07%
Chief Joseph	Mule Deer	1,992.00	679.00	34.09%
Chief Joseph	Ring-necked Pheasant	239.00	0.00	0.00%
Chief Joseph	Sage Grouse	1,179.00	0.00	0.00%
Chief Joseph	Sharp-tailed Grouse	2,290.00	0.00	0.00%
Chief Joseph	Spotted Sandpiper	1,255.00	10.00	0.80%
Chief Joseph	Yellow Warbler	58.00	26.00	44.83%
Cougar	American Dipper	285.00	0.00	0.00%
Cougar	Bald Eagle	0.00	0.00	0.00%

Source: Bonneville Power Administration

Table 10 Habitat Units Lost and Acquired by Species (part three).

Dam	Wildlife Species	Habitat Units Lost	Habitat Units Acquired	Percent Completed
Cougar	Beaver	189.00	256.00	135.45%
Cougar	Black Bear	1,856.00	0.00	0.00%
Cougar	Black-capped Chickadee	0.00	66.00	0.00%
Cougar	Black-tailed Deer	1,192.00	0.00	0.00%
Cougar	Cougar	1,472.00	0.00	0.00%
Cougar	Downy Woodpecker	0.00	44.00	0.00%
Cougar	Harlequin duck	282.00	0.00	0.00%
Cougar	Osprey	0.00	0.00	0.00%
Cougar	Pileated Woodpecker	1,938.00	0.00	0.00%
Cougar	River Otter	189.00	0.00	0.00%
Cougar	Roosevelt Elk	1,484.00	0.00	0.00%
Cougar	Ruffed Grouse	293.00	0.00	0.00%
Cougar	Spotted Owl	1,774.00	0.00	0.00%
Cougar	Spotted Sandpiper	0.00	10.00	0.00%
Cougar	Waterfowl	0.00	0.00	0.00%
Cougar	Yellow Warbler	170.00	61.00	35.88%
Detroit	Bald Eagle	0.00	0.00	0.00%
Detroit	Beaver	715.00	0.00	0.00%
Detroit	Black-tailed Deer	3,061.00	0.00	0.00%
Detroit	Common Merganser	0.00	0.00	0.00%
Detroit	Osprey	0.00	0.00	0.00%
Detroit	Pileated Woodpecker	1,156.00	0.00	0.00%
Detroit	River Otter	882.00	0.00	0.00%
Detroit	Roosevelt Elk	2,210.00	0.00	0.00%
Detroit	Ruffed Grouse	3,028.00	0.00	0.00%
Detroit	Spotted Owl	246.00	0.00	0.00%
Dexter	American Dipper	119.00	0.00	0.00%
Dexter	Bald Eagle	0.00	0.00	0.00%
Dexter	Beaver	832.00	0.00	0.00%
Dexter	Black-tailed Deer	1,078.00	0.00	0.00%
Dexter	California quail	664.00	0.00	0.00%
Dexter	Greater Scaup	0.00	0.00	0.00%
Dexter	Mink	832.00	0.00	0.00%
Dexter	Osprey	0.00	0.00	0.00%

Source: Bonneville Power Administration

Table 10 Habitat Units Lost and Acquired by Species (part four).

Dam	Wildlife Species	Habitat Units Lost	Habitat Units Acquired	Percent Completed
Deer	Red Fox	0	0	0.00%
Deer	Ring-necked antelope	0	0	0.00%
Deer	Ruffed Grouse	0	0	0.00%
Deer	Western Gull	0	0	0.00%
Deer	Wood Duck	0	0	0.00%
Deer	Yellow Warbler	0	0	0.00%
Fc er	Bald Eagle	0	0	0.00%
Fc er	Beaver	0	0	0.00%
Fc er	Black-tailed	0	0	0.00%
Fc er	Osprey	0	0	0.00%
Fc er	Ring-necked antelope	0	0	0.00%
Fc er	River Otter	0	0	0.00%
Fc er	Roosevelt Elk	0	0	0.00%
Fc er	Ruffed Grouse	0	0	0.00%
Fc er	Wood Duck	0	0	0.00%
Grand Coulee	Black-capped Kinglet	0	0	0.00%
Grand Coulee	Blue Grouse	0	0	0.00%
Grand Coulee	Bobcat	0	0	0.00%
Grand Coulee	Canada Goose (Mourning)	0	0	0.00%
Grand Coulee	Downy Woodpecker	0	0	0.00%
Grand Coulee	Great Blue	0	0	0.00%
Grand Coulee	Lewis Woodpecker	0	0	0.00%
Grand Coulee	Mallard	0	0	0.00%
Grand Coulee	Mink	0	0	0.00%
Grand Coulee	Mourning Dove	0	0	10.74%
Grand Coulee	Mule Deer	2	0	85.57%
Grand Coulee	Pigmy Rabbit	0	0	0.00%
Grand Coulee	Riparian Fish	0	0	0.00%
Grand Coulee	Riparian Squirrel	0	0	0.00%
Grand Coulee	Ruffed Grouse	1	0	1.19%
Grand Coulee	Sage Grouse	0	0	387.95%
Grand Coulee	Sharp-tailed Sparrow	3	0	52.41%
Grand Coulee	Western Meadowlark	0	0	0.00%
Grand Coulee	White-tailed	2	0	8.53%

Source: Bonneville Power Administration

Table 10 Habitat Units Lost and Acquired by Species (part five).

Dam	Wildlife Species	Habitat Units Lost	Habitat Units Acquired	Percent Completed
Grand Coulee	Yellow Warbler	0.00	265.00	0.00%
Green Peter	Bald Eagle	0.00	0.00	0.00%
Green Peter	Band-tailed Pigeon	487.00	0.00	0.00%
Green Peter	Beaver	381.00	0.00	0.00%
Green Peter	Black-tailed Deer	997.00	0.00	0.00%
Green Peter	Common Merganser	21.00	0.00	0.00%
Green Peter	Osprey	0.00	0.00	0.00%
Green Peter	Pileated Woodpecker	710.00	0.00	0.00%
Green Peter	River Otter	575.00	0.00	0.00%
Green Peter	Roosevelt Elk	997.00	0.00	0.00%
Green Peter	Ruffed Grouse	264.00	0.00	0.00%
Hills Creek	American Dipper	200.00	0.00	0.00%
Hills Creek	Bald Eagle	0.00	0.00	0.00%
Hills Creek	Beaver	326.00	955.00	292.94%
Hills Creek	Black Bear	958.00	66.00	2.23%
Hills Creek	Black-tailed Deer	912.00	259.00	8.89%
Hills Creek	Cougar	381.00	110.00	4.62%
Hills Creek	Harlequin duck	269.00	0.00	0.00%
Hills Creek	Osprey	0.00	0.00	0.00%
Hills Creek	Pileated Woodpecker	201.00	0.00	0.00%
Hills Creek	River Otter	384.00	0.00	0.00%
Hills Creek	Roosevelt Elk	203.00	106.00	3.31%
Hills Creek	Ruffed Grouse	468.00	0.00	0.00%
Hills Creek	Spotted Owl	977.00	0.00	0.00%
Hills Creek	Waterfowl	0.00	0.00	0.00%
Hills Creek	Yellow Warbler	210.00	0.00	0.00%
John Day OR	Black-capped Chickadee	435.00	0.00	0.00%
John Day OR	California quail	162.00	0.00	0.00%
John Day OR	Canada Goose	005.00	0.00	0.00%
John Day OR	Great Blue Heron	593.00	0.00	0.00%
John Day OR	Lesser Scaup	0.00	0.00	0.00%
John Day OR	Mallard	700.00	0.00	0.00%
John Day OR	Mink	719.00	7.00	0.97%
John Day OR	Mule Deer	0.00	5,966.00	0.00%

Source: Bonneville Power Administration

Table 10 Habitat Units Lost and Acquired by Species (part six).

Dam	Wildlife Species	Habitat Units Lost	Habitat Units Acquired	Percent Completed
John Day OR	Spotted Sand er	0.00	0.00	0.00%
John Day OR	Western Mea vlarlk	0.00	070.00	318.97%
John Day OR	Yellow Warbl	0.00	14.00	2.58%
John Day WA	Black-capped ickadee	0.00	984.00	226.21%
John Day WA	California qua	0.00	545.00	112.11%
John Day WA	Canada Goos	0.00	976.00	24.37%
John Day WA	Downy Woodker	0.00	0.00	0.00%
John Day WA	Great Blue Hr	0.00	198.00	12.43%
John Day WA	Harlequin duc	0.00	19.00	0.00%
John Day WA	Lesser Scaup	0.00	0.00	0.00%
John Day WA	Mallard	0.00	075.00	29.05%
John Day WA	Mink	0.00	046.00	284.56%
John Day WA	Spotted Sand er	0.00	8.00	0.50%
John Day WA	Western Mea vlarlk	0.00	720.00	107.51%
John Day WA	Yellow Warbl	0.00	302.00	55.62%
Lookout Point	American Dip	0.00	0.00	0.00%
Lookout Point	Bald Eagle	0.00	0.00	0.00%
Lookout Point	Beaver	0.00	0.00	0.00%
Lookout Point	Black-tailed	0.00	0.00	0.00%
Lookout Point	California qua	0.00	0.00	0.00%
Lookout Point	Common Mer	0.00	0.00	0.00%
Lookout Point	Mink	0.00	0.00	0.00%
Lookout Point	Osprey	0.00	0.00	0.00%
Lookout Point	Pileated Woocker	0.00	0.00	0.00%
Lookout Point	Red Fox	0.00	0.00	0.00%
Lookout Point	Ring-necked asant	0.00	0.00	0.00%
Lookout Point	Roosevelt Elk	0.00	0.00	0.00%
Lookout Point	Ruffed Grou	0.00	0.00	0.00%
Lookout Point	Spotted Owl	0.00	0.00	0.00%
Lookout Point	Western Grayquirrel	0.00	0.00	0.00%
Lookout Point	Wood Duck	0.00	0.00	0.00%
Lookout Point	Yellow Warbl	0.00	0.00	0.00%
Lower Snake	Black-capped ickadee	0.00	091.00	0.00%
Lower Snake	California qua	0.00	262.00	6.15%

Source: Bonneville Power Administration

Table 10 Habitat Units Lost and Acquired by Species (part seven).

Dam	Wildlife Species	Habitat Units Lost	Habitat Units Acquired	Percent Completed
Lower Snake	Canada Goose	2,040.00	158.00	7.75%
Lower Snake	Downy Woodpecker	365.00	404.00	110.68%
Lower Snake	Mallard	0.00	13.00	0.00%
Lower Snake	Mallard (nesting)	0.00	365.00	0.00%
Lower Snake	Marsh Wren	0.00	140.00	0.00%
Lower Snake	Mink	0.00	48.00	0.00%
Lower Snake	Mule Deer	0.00	3,686.00	0.00%
Lower Snake	Ring-necked Pheasant	2,647.00	30.00	1.13%
Lower Snake	Sage Grouse	0.00	45.00	0.00%
Lower Snake	Sharp-tailed Grouse	0.00	6,390.00	0.00%
Lower Snake	Song Sparrow	288.00	805.00	279.51%
Lower Snake	Western Meadowlark	0.00	9,921.00	0.00%
Lower Snake	Yellow Warbler	927.00	463.00	49.95%
McNary OR	Black-capped Chickadee	0.00	1,202.00	0.00%
McNary OR	Blue Grouse	0.00	408.00	0.00%
McNary OR	California quail	1,263.00	1,448.00	114.65%
McNary OR	Canada Goose	697.00	0.00	0.00%
McNary OR	Downy Woodpecker	75.00	845.00	1126.67%
McNary OR	Great Blue Heron	0.00	39.00	0.00%
McNary OR	Mallard (nesting)	1,392.00	93.00	6.68%
McNary OR	Mallard (wintering)	0.00	0.00	0.00%
McNary OR	Mink	250.00	145.00	58.00%
McNary OR	Spotted Sandpiper	273.00	20.00	7.33%
McNary OR	Western Meadowlark	694.00	1,981.00	285.45%
McNary WA	Yellow Warbler	66.00	284.00	430.30%
McNary WA	Black-capped Chickadee	0.00	3,178.00	0.00%
McNary WA	Blue Grouse	0.00	137.00	0.00%
McNary WA	California quail	5,051.00	12,294.00	243.40%
McNary WA	Canada Goose	2,787.00	6,968.00	250.02%
McNary WA	Downy Woodpecker	301.00	2,071.00	688.04%
McNary WA	Great Blue Heron	0.00	117.00	0.00%
McNary WA	Mallard	0.00	5,328.00	0.00%
McNary WA	Mallard (nesting)	5,567.00	1,200.00	21.56%
McNary WA	Mallard (wintering)	0.00	0.00	0.00%

Source: Bonneville Power Administration

Table 10 Habitat Units Lost and Acquired by Species (part eight).

Dam	Wildlife Species	Habitat Units Lost	Habitat Units Acquired	Percent Completed
McNary WA	Mink	0.00	226.00	226.00%
McNary WA	Spotted Sandpiper	0.00	164.00	15.05%
McNary WA	Western Meadowlark	0.00	526.00	54.99%
McNary WA	Yellow Warbler	0.00	878.00	333.84%
Minidoka	Bald Eagle (wintering)	0.00	89.00	0.00%
Minidoka	Mallard	0.00	0.00	0.00%
Minidoka	Marsh Wren	0.00	0.00	0.00%
Minidoka	Mule Deer	0.00	632.00	47.82%
Minidoka	Redhead Duck	0.00	0.00	0.00%
Minidoka	River Otter	0.00	0.00	0.00%
Minidoka	Sage Grouse	0.00	0.00	0.00%
Minidoka	Western Grebe	0.00	0.00	0.00%
Minidoka	Yellow Warbler	0.00	0.00	0.00%
Palisades	Bald Eagle (breeding)	0.00	329.00	56.03%
Palisades	Bald Eagle (wintering)	105.00	974.00	37.57%
Palisades	Black-capped Tropicbird	0.00	480.00	35.35%
Palisades	Canada Goose	0.00	388.00	48.20%
Palisades	Mallard	0.00	998.00	38.06%
Palisades	Mink	0.00	653.00	28.69%
Palisades	Mule Deer	0.00	607.00	106.23%
Palisades	Peregrine Falcon	0.00	0.00	0.00%
Palisades	Ruffed Grouse	0.00	808.00	34.66%
Palisades	Yellow Warbler	0.00	160.00	22.28%
The Dalles OR	Black-capped Tropicbird	0.00	0.00	0.00%
The Dalles OR	Canada Goose	0.00	0.00	0.00%
The Dalles OR	Great Blue Heron	0.00	0.00	0.00%
The Dalles OR	Lesser Scaup	0.00	0.00	0.00%
The Dalles OR	Mink	0.00	0.00	0.00%
The Dalles OR	Spotted Sandpiper	0.00	0.00	0.00%
The Dalles OR	Western Meadowlark	0.00	0.00	0.00%
The Dalles OR	Yellow Warbler	0.00	0.00	0.00%
The Dalles WA	Black-capped Tropicbird	0.00	406.00	446.15%
The Dalles WA	Canada Goose	0.00	0.00	0.00%
The Dalles WA	Great Blue Heron	0.00	111.00	52.11%
The Dalles WA	Lesser Scaup	0.00	0.00	0.00%
The Dalles WA	Mink	165.00	174.00	105.45%
The Dalles WA	Spotted Sandpiper	267.00	0.00	0.00%
The Dalles WA	Western Meadowlark	124.00	57.00	45.97%
The Dalles WA	Yellow Warbler	85.00	0.00	0.00%
Unknown	Mink	0.00	0.00	0.00%
Unknown	Yellow Warbler	0.00	0.00	0.00%

Source: Bonneville Power Administration

Table 11A Wildlife Acres by Entity, 1978-2005.

Agency Name	Acres Protected
Washington Department of Fish & Wildlife	78,040
Montana Department of Fish, Wildlife and Parks - Helena	70,386
Idaho Department of Fish & Game	68,974
Burns Paiute Tribe	46,462
Colville Confederated Tribes	40,657
Confederated Tribes of the Warm Springs Indian Reservation	24,304
Nez Perce Tribe	21,159
Confederated Tribes of the Umatilla Indian Reservation	17,432
Yakama Indian Nation	12,142
Montana Land Reliance	5,041
Shoshone-Bannock Tribes	5,013
Spokane Tribe of Indians	3,292
Kalispel Tribe of Indians	2,618
USFS - Flathead National Forest	2,383
Oregon Department of Fish & Wildlife- Hq	1,752
US Fish and Wildlife Service - Portland Region	1,465
MCKENZIE RIVER TRUST	800
The Nature Conservancy - OR	494
Kootenai Tribe of Idaho	210
The Nature Conservancy - MT	107
US Fish and Wildlife Service - Denver Region	80
Flathead Land Trust	60
Total	404,314

Table 11B Wildlife Funding by Entity, 1978-2005.

Agency Name	Cost
Idaho Department of Fish & Game	17,909,110
Colville Confederated Tribes	13,553,873
Washington Department of Fish & Wildlife	9,993,415
Confederated Tribes of the Umatilla Indian Reservation	7,389,151
Nez Perce Tribe	7,000,803
Yakama Indian Nation	4,761,800
Spokane Tribe of Indians	3,982,336
US Fish and Wildlife Service - Portland Region	3,741,677
Montana Department of Fish & Wildlife - Helena	3,728,583
Kalispel Tribe of Indians	3,710,664
Burns Paiute Tribe	3,700,000
Confederated Tribes of the Warm Springs Indian Reservation	3,200,000
Shoshone-Bannock Tribes	2,982,000
The Nature Conservancy - OR	2,452,605
Coeur D'Alene Tribe of Idaho	2,200,000
Oregon Department of Fish & Wildlife- Hq	2,018,410
McKenzie River Trust	1,052,826
USFS - Flathead National Forest	416,000
Kootenai Tribe of Idaho	355,000
Montana Land Reliance	100,059
US Fish and Wildlife Service - Denver Region	5,000
Flathead Land Trust	3,598
The Nature Conservancy - MT	2,200
	94,259,110

Source: Bonneville Power Administration

Table 11C Wildlife Expenditures by Tract 1978-2005 (continues on next page).

Wildlife Site	Tract	BPA Acres Protected	BPA Purchase Cost	Purchase Type
Albeni Falls Dam	Upper Hangman	1,387.00	\$2,200,000.00	Fee Title
Asotin Creek	Schlee	8,500.00	\$3,000,000.00	Fee Title
Blue Creek Winter Range	Abrahamson Property (A 322)	78.00	\$42,237.00	Fee Title
Blue Creek Winter Range	Blue Creek Land Swap	701.00	\$812,000.00	Exchange
Blue Creek Winter Range	Gribner	80.00	\$56,000.00	Fee Title
Blue Creek Winter Range	Spokane (A 1052)	79.00	\$56,000.00	Fee Title
Blue Creek Winter Range	Spokane (A 1073)	80.00	\$115,000.00	none/unknown
Blue Creek Winter Range	Spokane (A 1074-Hill)	120.00	\$178,000.00	Fee Title
Blue Creek Winter Range	Spokane (A 1074-Mercer)	100.00	\$178,000.00	Fee Title
Blue Creek Winter Range	Spokane (A 13B)	60.00	\$109,000.00	Fee Title
Blue Creek Winter Range	Spokane (A 283-A)	73.00	\$77,000.00	Fee Title
Blue Creek Winter Range	Spokane (A 314)	80.00	\$138,000.00	Fee Title
Blue Creek Winter Range	Spokane (A 474)	36.00	\$101,000.00	Fee Title
Blue Creek Winter Range	Spokane (A 483-B)	70.00	\$110,000.00	Fee Title
Blue Creek Winter Range	Spokane (A 75)	60.00	\$48,000.00	Fee Title
Blue Creek Winter Range	Spokane (A 86)	40.00	\$80,000.00	Fee Title
Blue Creek Winter Range	Spokane (A599)	80.00	\$261,000.00	Fee Title
Blue Creek Winter Range	YEPA	35.00	\$45,500.00	Fee Title
Boise River WMA	Krueger	166.00	\$332,500.00	Fee Title
Boundary Creek WMA	Boundary Creek	1,405.00	\$672,885.00	Fee Title
Burlington Bottoms	Burlington Bottoms	417.00	\$700,000.00	Fee Title
Camas Prairie	Rice Property	1,364.00	\$1,075,228.00	Fee Title
Canby Landing	Canby Property	23.00	\$250,000.00	Fee Title
Deer Parks WMU	Allen	81.00	\$283,800.00	none/unknown
Deer Parks WMU	BeaverDick (Kinghorn 1)	310.00	\$465,000.00	Fee Title
Deer Parks WMU	Boyle Ranch	2,556.00	\$5,200,000.00	Fee Title
Deer Parks WMU	Horkley	128.00	\$336,000.00	none/unknown
Deer Parks WMU	Menan (Kinghorn 2)	140.00	\$220,350.00	Fee Title
Denny Jones	Denny Jones Ranch	6,385.00	\$1,700,000.00	Fee Title
Fox Creek	Kieffer Property	40.00	\$64,000.00	Fee Title
Fox Creek	Smith Property	160.00	\$320,000.00	Fee Title
Gold Creek	Gold Creek	310.00	\$2,325,000.00	Fee Title
Goose Haven Lake	Bader	648.00	\$800,324.00	none/unknown
Hellsgate	Berg	6,300.00	\$2,000,000.00	Easement
Hellsgate	Bill Kuenhe	4,814.00	\$2,275,000.00	Fee Title
Hellsgate	Colville Allotments	80.00	\$21,746.00	Fee Title
Hellsgate	Covington	129.00	\$68,000.00	Fee Title
Hellsgate	Friedlander	60.00	\$47,116.00	Fee Title
Hellsgate	Graves	2,700.00	\$657,403.00	Fee Title
Hellsgate	Henry Kuehne	4,860.00	\$3,000,000.00	Fee Title
Hellsgate	Hinman	770.00	\$139,608.00	Fee Title
Hellsgate	Nespelem Bend	517.00	\$95,000.00	Fee Title
Hellsgate	Rattlesnake	10,293.00	\$5,600,000.00	Fee Title
Hellsgate	Redford Canyon	221.00	\$175,000.00	Fee Title
Hellsgate	Sand Hills	1,394.00	\$575,000.00	Fee Title
Hellsgate	Turnwater	18,812.00	\$4,500,000.00	Easement
Iskuulpa	Iskuulpa	5,937.00	\$2,260,625.00	Fee Title
Kruse Pine Creek Easement	Pine Creek (Kruse)	800.00	\$310,000.00	Easement
Ladd Marsh	Ladd Marsh	940.00	\$265,000.00	Mix
Little Pend Oreille NWR	Kaniksu Addition	716.00	\$313,000.00	Mix
Little Pend Oreille NWR	Weir	200.00	\$275,707.00	Fee Title
Logan Valley	Logan Valley	1,700.00	\$2,000,000.00	Fee Title
Lower Yakima Wetlands	Bailey	0.00	\$239,620.00	Fee Title
Lower Yakima Wetlands	Buena	92.00	\$107,425.00	Mix
Lower Yakima Wetlands	Campbell	280.00	\$561,170.00	Mix
Lower Yakima Wetlands	Dry Creek	0.00	\$8,750.00	Lease
Lower Yakima Wetlands	East 80 Pumphouse	0.00	\$58,875.00	Easement
Lower Yakima Wetlands	Garcia	0.00	\$4,500.00	Lease
Lower Yakima Wetlands	Knight Property	80.00	\$79,000.00	Easement
Lower Yakima Wetlands	Lower Satus	1,791.00	\$1,003,150.00	Mix
Lower Yakima Wetlands	Meninick	0.00	\$713,875.00	Mix
Lower Yakima Wetlands	Milk Creek North	0.00	\$512,900.00	Mix
Lower Yakima Wetlands	Mosebar	733.00	\$321,142.00	Mix
Lower Yakima Wetlands	North Satus	1,110.00	\$193,100.00	Mix
Lower Yakima Wetlands	Old Goldendale	193.00	\$175,075.00	Easement
Lower Yakima Wetlands	Olney Drain	0.00	\$122,875.00	Easement
Lower Yakima Wetlands	Parker	0.00	\$8,450.00	Lease
Lower Yakima Wetlands	Plank Road	168.00	\$129,425.00	Mix
Lower Yakima Wetlands	S Barkes Rd.	81.00	\$45,000.00	Lease
Lower Yakima Wetlands	Satus	4,474.00	\$1,202,705.00	Mix
Lower Yakima Wetlands	Satus Corridor	0.00	\$127,200.00	Lease
Lower Yakima Wetlands	Shuster Road	0.00	\$315,250.00	Mix

Source: Bonneville Power Administration

Table 11C Wildlife Expenditures by Tract 1978-2005 (continued from previous page).

Wildlife Site	Tract	BPA Acres Protected	BPA Purchase Cost	Purchase Type
Lower Yakima Wetlands	South Lateral A	417.00	\$825,000.00	Fee Title
Lower Yakima Wetlands	Sunnyside Dam	0.00	\$62,500.00	Lease
Lower Yakima Wetlands	Tillman	0.00	\$130,338.00	Fee Title
Lower Yakima Wetlands	Toppenish Creek	1,600.00	\$785,904.00	Mix
Lower Yakima Wetlands	Wanity Slough	361.00	\$218,250.00	Mix
Lower Yakima Wetlands	Wapato	770.00	\$227,500.00	Mix
Lower Yakima Wetlands	West Satus	160.00	\$147,175.00	Lease
McCoy Lake Watershed	Allotment 65 C	40.00	\$47,000.00	Fee Title
McCoy Lake Watershed	Etue Property	74.00	\$148,720.00	Fee Title
McCoy Lake Watershed	Harris Property	180.00	\$194,940.00	Fee Title
McCoy Lake Watershed	Kenworthy Property	40.00	\$60,000.00	Fee Title
McCoy Lake Watershed	Lantzy East	85.00	\$60,744.00	Fee Title
McCoy Lake Watershed	Lantzy West	124.00	\$116,187.00	Fee Title
McCoy Lake Watershed	McCrea Property (A 401 A)	35.00	\$19,530.00	Fee Title
McCoy Lake Watershed	Parson East and West	501.00	\$792,349.00	Fee Title
McCoy Lake Watershed	People Living God Prop.	440.00	\$498,000.00	Fee Title
McCoy Lake Watershed	Sampson	566.00	\$577,629.00	Fee Title
Muddy Cr / Marys River	Muddy Cr / Marys River	222.00	\$387,500.00	Fee Title
Pend Oreille	Carstens	92.00	\$281,262.00	Fee Title
Pend Oreille	Heller	105.00	\$325,837.00	Fee Title
Pend Oreille	Korengut	40.00	\$176,265.00	Fee Title
Pend Oreille	Testall	241.00	\$277,767.00	Fee Title
Pend Oreille	Twigg	170.00	\$177,348.00	Fee Title
Pend Oreille Wetlands (Kalispel)	Pend Oreille Wetlands I	436.00	\$427,185.00	Fee Title
Pend Oreille Wetlands (Kalispel)	Pend Oreille Wetlands II	164.00	\$199,500.00	Fee Title
Pend Oreille WMA	Deep Creek	40.00	\$65,000.00	Fee Title
Perkins Lake	Perkins Lake Tract	98.00	\$200,000.00	Fee Title
Pine Creek	Pine Creek	24,304.00	\$3,200,000.00	Fee Title
Precious Lands WMA	ODL #1	760.00	\$228,486.00	Fee Title
Precious Lands WMA	ODL #2	201.00	\$50,378.00	Fee Title
Precious Lands WMA	Precious Lands	15,325.00	\$4,250,524.00	Fee Title
Rainwater Ranch	Rainwater Ranch	8,678.00	\$4,085,550.00	Fee Title
Rudeen	Rudeen	2,450.00	\$1,700,000.00	Fee Title
Sage Flat WA	Sage Flat	8,380.00	\$1,526,057.00	Mix
Scotch Creek WA	Chesaw	4,290.00	\$9,000.00	Fee Title
Scotch Creek WA	Scotch Creek	7,300.00	\$295,291.00	Fee Title
Scotch Creek WA	Tunk	320.00	\$158,665.00	Fee Title
Soda Hills WHMA	Soda Hills	2,563.00	\$1,282,000.00	Fee Title
Sorenson	Sorenson	42.00	\$172,955.00	Fee Title
Steigerwald Lake NWR	Bliss	9.00	\$110,000.00	Fee Title
Steigerwald Lake NWR	Burlington Northern	27.00	\$139,000.00	Fee Title
Steigerwald Lake NWR	James	90.00	\$594,000.00	Fee Title
Steigerwald Lake NWR	Straub	191.00	\$872,852.00	Fee Title
Swanson Lakes	Baker	160.00	\$36,148.00	Fee Title
Swanson Lakes	Koch	80.00	\$23,168.00	Fee Title
Swanson Lakes	Nelson	792.00	\$191,889.00	Exchange
Swanson Lakes	Roloff	9,000.00	\$2,000,000.00	Fee Title
Swanson Lakes	Welch	3,673.00	\$770,000.00	Fee Title
Tacoma/Trimble WMA	Lower Trimble Creek	450.00	\$506,000.00	Fee Title
Tacoma/Trimble WMA	Tacoma Creek	437.00	\$535,000.00	Fee Title
Tacoma/Trimble WMA	Upper Trimble Creek	303.00	\$304,500.00	Fee Title
Tex Creek WMA	Quarter Circle	2,135.00	\$260,000.00	Fee Title
The Pend Oreille WMA	Albeni Cove	70.00	\$126,208.00	Fee Title
The Pend Oreille WMA	Carter Island	96.00	\$288,000.00	Fee Title
The Pend Oreille WMA	Cocolalla Lake	98.00	\$290,500.00	Fee Title
The Pend Oreille WMA	Denton Slough	17.00	\$44,000.00	Fee Title
The Pend Oreille WMA	Derr Creek (Henderson Ranch)	240.00	\$511,000.00	Fee Title
The Pend Oreille WMA	Lower Pack River (McMahon)	30.00	\$42,500.00	Fee Title
The Pend Oreille WMA	Rapid Lightening (Ginter)	110.00	\$219,900.00	Fee Title
The Pend Oreille WMA	Trout Creek (Hunter Ranch)	216.00	\$875,500.00	Fee Title
The Pend Oreille WMA	Westmond Lake	65.00	\$118,000.00	Fee Title
Thurston	Thurston	54.00	\$121,275.00	Easement
Trout Creek Peninsula	Wheeler Peninsula Tract	112.00	\$155,000.00	Fee Title
Tualatin River NWR	Oleson Tract 1	132.00	\$577,908.00	Mix
Tualatin River NWR	Oleson Tract 2	100.00	\$859,210.00	Mix
Vancouver Lowlands	Vancouver Lowlands (Shillapoo)	612.00	\$1,740,657.00	Fee Title
Wanaket	Wanaket (Conforth Ranch)	2,817.00	\$1,042,976.00	Fee Title
Wellpinit Mtn WA	Allotment 154	148.00	\$146,000.00	Fee Title
Wellpinit Mtn WA	Wynecoop (A 67B)	80.00	\$83,000.00	Fee Title
Whitney	Whitney	54.00	\$121,680.00	Easement
Willamette River	Green Island	856.00	\$1,052,826.00	Fee Title
Willamette River	Willow Creek / Cuddeback	165.00	\$1,394,605.00	Fee Title
Willow Creek	Willow Creek	329.00	\$1,058,000.00	Easement
Windy Bay	Ramsey	147.00	\$300,000.00	none/unknown
Winterfeld Easement	Winterfeld	422.00	\$225,000.00	Easement

Source: Bonneville Power Administration

Table 12 Wildlife Funding by Province, Updated April 2007 (continued on next page).

Province	Subbasin	WL Site	Acres Protected	Purchase Type	
Blue Mountain	Grande Ronde	Ladd Marsh	940	Mix	
	Grande Ronde	Precious Lands WMA	16286	Fee Title	
	Grande Ronde	Rainwater Ranch	8678	Fee Title	
	Grande Ronde	Wanaket	2817	Fee Title	
Cascade Columbia	Columbia Upper Middle	Sage Flat WA	8380	Mix	
	Okanogan	Asotin Creek	8500	Fee Title	
	Okanogan	Columbia Basin Wetlands	100	Fee Title	
	Okanogan	Sage Flat WA	8380	Mix	
	Okanogan	Scotch Creek WA	11910	Fee Title	
	Okanogan	Sunnyside	1280	Lease	
	Okanogan	Wenas WA	30053	Lease	
	Columbia Plateau	Columbia Lower Middle	Columbia Basin Wetlands	100	Fee Title
Columbia Lower Middle		Wanaket	2817	Fee Title	
Crab		Swanson Lakes	792	Exchange	
Crab		Swanson Lakes	14999	Fee Title	
John Day		Pine Creek	24304	Fee Title	
Umatilla		Iskuulpa	5937	Fee Title	
Walla Walla		Rainwater Ranch	8678	Fee Title	
Yakima		Lower Yakima Wetlands	1460	Easement	
Yakima		Lower Yakima Wetlands	613	Lease	
Yakima		Lower Yakima Wetlands	10069	Mix	
Yakima		Lower Yakima Wetlands	0	none/unknown	
Yakima		Wenas WA	30053	Lease	
Intermountain		Coeur D'Alene	The Pend Oreille WMA	942	Fee Title
		Columbia Upper	Hellsgate	25112	Easement
		Columbia Upper	Hellsgate	15545	Fee Title
	Columbia Upper	Hellsgate	0	No purchase/ enhancement only	
	Columbia Upper	Lake Roosevelt Peregrine Falc	0	No purchase/ enhancement only	
	Pend Oreille	Carey Creek	117	Fee Title	
	Pend Oreille	Little Pend Oreille NWR	200	Fee Title	
	Pend Oreille	Little Pend Oreille NWR	716	Mix	
	Pend Oreille	Pend Oreille	648	Fee Title	
	Pend Oreille	Pend Oreille Wetlands (Kalispe	600	Fee Title	
	Pend Oreille	Perkins Lake	98	Fee Title	
	Pend Oreille	Priest River	63	Fee Title	
	Pend Oreille	Tacoma/Trimble WMA	1190	Fee Title	
	Pend Oreille	The Pend Oreille WMA	942	Fee Title	
	Pend Oreille	Trout Creek Peninsula	112	Fee Title	
	San Poil	Hellsgate	25112	Easement	
	San Poil	Hellsgate	15545	Fee Title	
	San Poil	Hellsgate	0	No purchase/ enhancement only	
	Spokane	Blue Creek Winter Range	701	Exchange	
	Spokane	Blue Creek Winter Range	78	Fee Title	
	Spokane	Fox Creek	200	Fee Title	
	Spokane	McCoy Lake Watershed	769	Fee Title	
	Spokane	Wellpinit Mtn WA	228	Fee Title	
	Lower Columbia	Columbia Lower	Steigerwald Lake NWR	317	Fee Title
		Columbia Lower	Vancouver Lowlands	612	Fee Title
Sandy		Sandy River Delta	0	No purchase/ enhancement only	
Willamette		Burlington Bottoms	417	Fee Title	
Willamette		Canby Landing	23	Fee Title	
Willamette		Muddy Cr / Marys River	222	Fee Title	
Willamette		Sorenson	42	Fee Title	
Willamette		South Pasture	0	none/unknown	
Willamette		Thurston	54	Easement	
Willamette		Tualatin River NWR	232	Mix	
Willamette		Whitney	54	Easement	
Willamette		Willamette River	1021	Fee Title	
Willamette		Willow Creek	329	Easement	
Middle Snake		Malheur	Denny Jones	6385	Fee Title
		Malheur	Denny Jones	38377	Lease
	Malheur	Logan Valley	1700	Fee Title	
	Owyhee	Soda Hills WHMA	2563	Fee Title	
Mountain Columbia	Clark Fork	The Pend Oreille WMA	942	Fee Title	
	Flathead	Hungry Horse Mitigation	37595	Easement	
	Flathead	Hungry Horse Mitigation	1289	Exchange	

Source: Bonneville Power Administration

Table 12 Wildlife Funding by Province, Updated April 2007 (continued from previous page).

Province	Subbasin	WL Site	Acres Protected	Purchase Type
	Flathead	Hungry Horse Mitigation	113	Fee Title
	Flathead	Hungry Horse Mitigation	1094	Mix
	Flathead	Hungry Horse Mitigation	0	No purchase/ enhancement only
	Flathead	Hungry Horse Mitigation	0	none/unknown
	Flathead	Hungry Horse Mitigation	4514	Partnerships
	Flathead	Libby Dam Mitigation	33217	Easement
	Flathead	Libby Dam Mitigation	235	Exchange
	Flathead	Libby Dam Mitigation	0	No purchase/ enhancement only
	Flathead	Libby Dam Mitigation	0	none/unknown
	Kootenai	Boundary Creek WMA	1405	Fee Title
	Kootenai	Libby Dam Mitigation	33217	Easement
	Kootenai	Libby Dam Mitigation	235	Exchange
	Kootenai	Libby Dam Mitigation	0	No purchase/ enhancement only
	Kootenai	Libby Dam Mitigation	0	none/unknown
Mountain Snake	Clearwater	Buck Creek Old Growth	67	Fee Title
	Clearwater	Dworshak Mitigation (Craig Mtr)	59991	Fee Title
	Salmon	Dworshak Mitigation (Craig Mtr)	59991	Fee Title
	Salmon	Dworshak Tribal	4873	Fee Title
Upper Snake	Snake Upper	Big Cottonwood WMA	0	No purchase/ enhancement only
	Snake Upper	Boise River WMA	166	Fee Title
	Snake Upper	Camas Prairie	1364	Fee Title
	Snake Upper	Deer Parks WMU	3006	Fee Title
	Snake Upper	Deer Parks WMU	209	none/unknown
	Snake Upper	Kruse Pine Creek Easement	800	Easement
	Snake Upper	Rudeen	2450	Fee Title
	Snake Upper	Soda Hills WHMA	2563	Fee Title
	Snake Upper	Tex Creek WMA	2135	Fee Title
	Snake Upper	Winterfeld Easement	422	Easement
Systemwide	Columbia Basin	Hungry Horse Mitigation	37595	Easement
	Columbia Basin	Hungry Horse Mitigation	1289	Exchange
	Columbia Basin	Hungry Horse Mitigation	113	Fee Title
	Columbia Basin	Hungry Horse Mitigation	1094	Mix
	Columbia Basin	Hungry Horse Mitigation	0	No purchase/ enhancement only
	Columbia Basin	Hungry Horse Mitigation	0	none/unknown
	Columbia Basin	Hungry Horse Mitigation	4514	Partnerships
	Columbia Basin	Libby Dam Mitigation	33217	Easement
	Columbia Basin	Libby Dam Mitigation	235	Exchange
	Columbia Basin	Libby Dam Mitigation	0	No purchase/ enhancement only
	Columbia Basin	Libby Dam Mitigation	0	none/unknown
	Columbia Basin	McCoy Lake Watershed	1316	Fee Title
			669678	

Source: Bonneville Power Administration



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