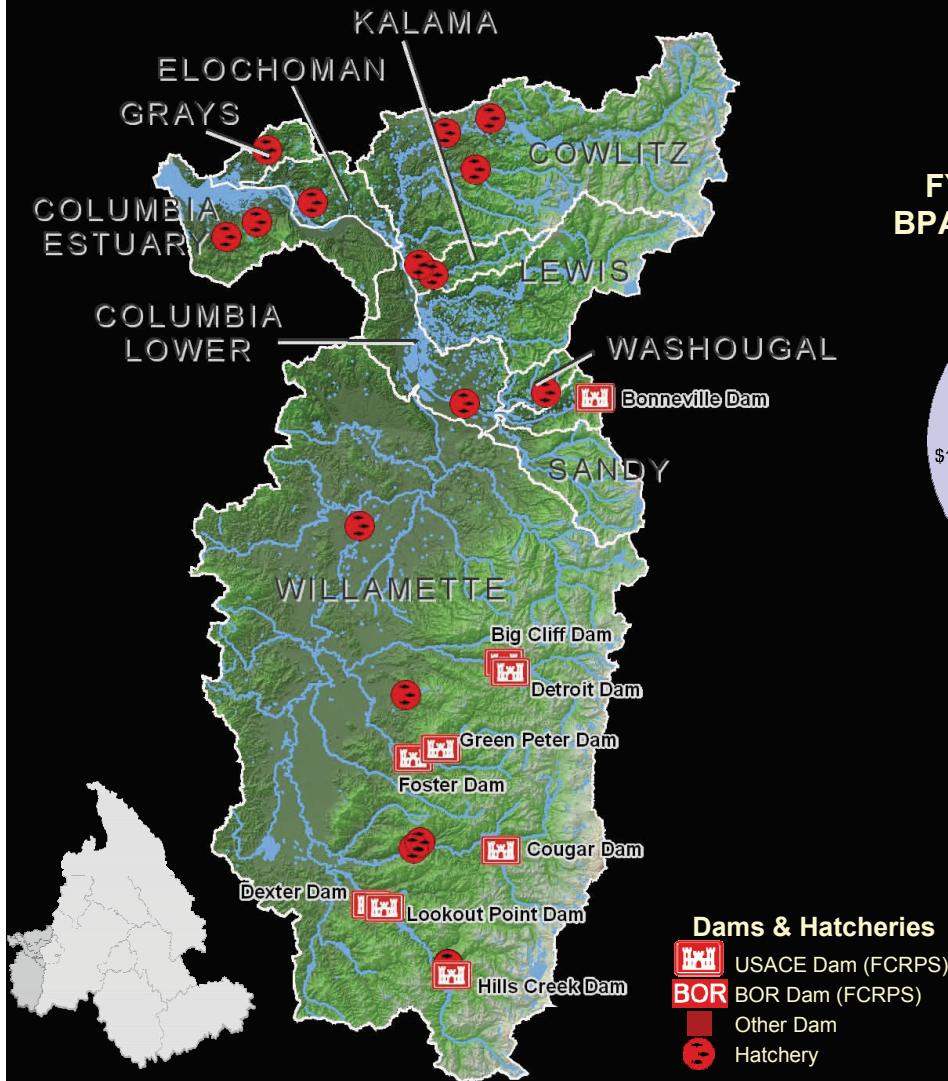
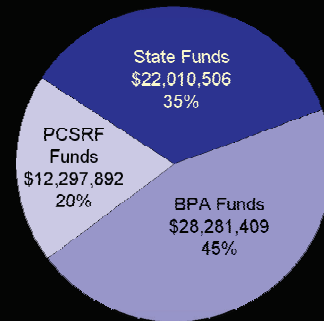


Lower Columbia/Columbia Estuary

Total BPA FY01-06 Spending
\$62,589,807

FY01-06 Spending by BPA, PCSRF & the States



The Lower Columbia Province extends from the mouth of the Columbia River to Bonneville Lock and Dam at river mile 145, encompassing an area of approximately 17,500 square miles. Subbasins in the Lower Columbia Province include the Cowlitz, Elochoman, Grays, Kalama, Lewis, and Washougal in Washington, the Sandy and Willamette in Oregon, and the mainstem Columbia River and estuary shared by both states. Climate, topography, and land use vary across the province, but forestry, agriculture, and tourism are important to the economies in most subbasins. Over 60% of the province area is contained in the Willamette River Subbasin. This subbasin includes many large and important watersheds, has more runoff per drainage area than any other large river in the United States, and is home to 70 percent of Oregon's population. The Willamette River Subbasin accounts for 58% of Oregon's crop sales, and the lower portion of the subbasin serves as the economic hub of Oregon. Throughout the Lower Columbia Province, 32 fish and wildlife projects were funded by the Bonneville Power Administration between 2001 and 2005. For more information relative to the accomplishments of these specific projects, please visit www.cbfga.org/sotr.

Land Ownership	
Federal.....	37%
Private.....	62%
Tribal.....	0%

Ten fish species, including two races each of Chinook and steelhead, are designated as focal species within the province. Most are listed under the federal Endangered Species Act.

Focal Species	Columbia Lower	Cowlitz	Elochoman	Grays	Kalama	Lewis	Sandy	Washougal	Willamette
Bull Trout	Not a focal species	Not a focal species	Not a focal species	Not a focal species	Not a focal species	Threatened	Not a focal species	Not a focal species	Threatened
Chinook Spring	Threatened	Threatened	Not a focal species	Not a focal species	Threatened	Threatened	Threatened	Not a focal species	Threatened
Chinook Fall	Threatened	Threatened	Threatened	Threatened	Threatened	Threatened	Threatened	Threatened	Threatened
Chum	Threatened	Threatened	Threatened	Threatened	Threatened	Threatened	Not a focal species	Threatened	Threatened
Coastal Cutthroat Trout	Not a focal species	Species of Concern	Species of Concern	Species of Concern	Species of Concern	Species of Concern	Not a focal species	Species of Concern	Species of Concern
Coho	Threatened	Threatened	Threatened	Threatened	Threatened	Threatened	Threatened	Threatened	Threatened
Green Sturgeon	Species of Concern	Not a focal species	Not a focal species	Not a focal species	Not a focal species	Not a focal species	Not a focal species	Not a focal species	Not a focal species
Oregon Chub	Not a focal species	Not a focal species	Not a focal species	Not a focal species	Not a focal species	Not a focal species	Not a focal species	Not a focal species	Endangered
Pacific Lamprey	Species of Concern	Not a focal species	Not a focal species	Not a focal species	Not a focal species	Not a focal species	Not a focal species	Not a focal species	Not a focal species
Steelhead Winter	Threatened	Threatened	Threatened	Threatened	Threatened	Threatened	Threatened	Threatened	Threatened
Steelhead Summer	Threatened	Not a focal species	Not a focal species	Not a focal species	Threatened	Threatened	Not a focal species	Threatened	Not a focal species
White Sturgeon	Not listed	Not a focal species	Not a focal species	Not a focal species	Not a focal species	Not a focal species	Not a focal species	Not a focal species	Not a focal species

Not a focal species	Not listed	Species of Concern	Threatened	Endangered
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Major limiting factors and their primary causes for fish in the province include:

- Water quality (sediment and high temperatures from roads and land use practices)
- Water quantity (altered due to land use, withdrawals, and hydro-operations)
- Habitat access/passage (Mayfield, Merwin, Detroit, Green Peter, Dexter, Cougar, and other dams)
- Habitat quality/quantity (reductions of in-stream and riparian habitat)

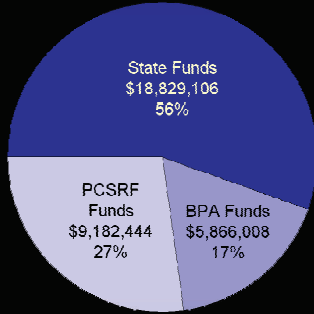
Wildlife Losses Hydroelectric Facilities in the Lower Columbia/Estuary Province		
Dam	Habitat Lost	Credited, protected, enhanced, and estimated
Big Cliff		
Cougar	11,124	511
Detroit	11,298	0
Dexter	6,648	196
Foster	3,544	96
Green Peter	16,432	56
Hills Creek	19,489	1,565
Lookout Point	25,454	1,296



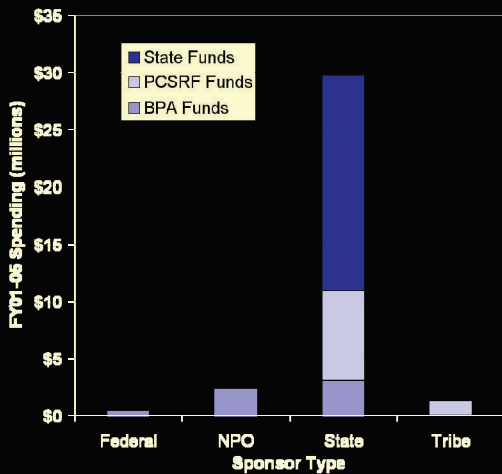
Total FY01-06 Spending

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FY01-06 Spending by BPA, PCSRF & the States



Combined FY01-06 Spending by Type of Project Sponsor



BPA-Funded Fish and Wildlife Projects: Select 2005-2006 Project Accomplishments*

Measure Type	Action	Habitat Zone	Value
Acres affected	Realign, connect, and/or create channel	Wetland	11 acres
Acres protected	Land purchase	Riparian and upland	1,244 acres (784 HUs)
Acres treated	Controlled burn, plant vegetation, remove vegetation, enhance floodplain, create, restore, and /or enhance wetland	Riparian, upland, and wetland	602 acres
Fence miles installed	Install fence	Riparian and upland	3 miles
Miles planted	Plant vegetation	Riparian	.25 miles

* BPA Pisces data—For a comprehensive list, please visit www.cbfwa.org/sotr

Wildlife Priority Focal Habitat

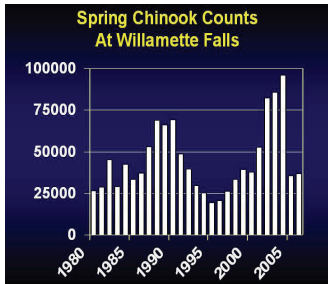
Oak woodlands
 Upland prairie, savanna, and rock outcrops
 Wetland prairie and seasonal marsh
 Perennial ponds and their riparian areas
 Riparian areas
 Old growth conifer forests

Limiting Factors and Primary Causes (Fish)

Focal Species	Life Stage	Limiting Factor	Cause
Chinook	All	Water quality (temperature)	Hydrosystem operations
	Adults	Habitat access	Dams
Steelhead	Juveniles (age-1 winter)	Habitat quality/quantity (complexity)	Land use
	Adults	Habitat access	Dams
Coho	Juveniles (age-0 winter)	Habitat quality/quantity (complexity)	Land use
	Juveniles	Habitat quality/quantity (complexity)	Land use
Bull trout	Juveniles	Habitat quality/quantity (complexity)	Land use
	Adults	Habitat access	Dams
Oregon chub	All	Water quality (sediment)	Land use
	All	Predation	Introduced species



Chinook



Steelhead



Coho



Spring

Federal Designation: Threatened
ESU: Upper Willamette
Biological Objective: 100,000 adults¹
Status: 36,851 adults at Willamette Falls; 2,137 adults at

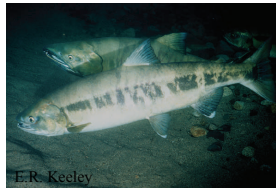
Fall

Federal Designation: Threatened
ESU: Lower Columbia
Biological Objective: None
Status: Returns to the Clackamas have declined nearly to the point of extinction (2003)⁴

Winter

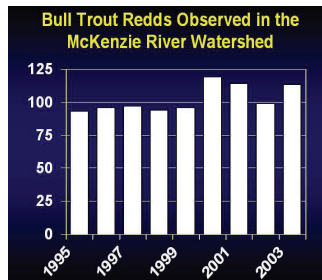
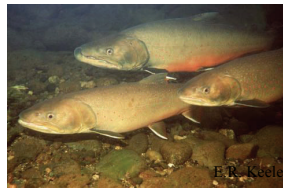
Federal Designation: Threatened
ESU: Lower Columbia (Clackamas); Upper Willamette
Biological Objective: None
Status: 6,404 adults at Willamette Falls; 858 at North Fork Dam (2006)^{2,3}

Chum



Federal Designation: Threatened
ESU: Lower Columbia
Biological Objective: None
Status: Extirpated

Bull Trout



Federal Designation: Threatened
Population: Willamette Basin (Within Willamette River Recovery Unit)
Biological Objectives: 900-1,500 adults (600-1,000 in Upper Willamette Core Area; 300-500 in Clackamas Core Area)¹
Status: 175-345 adults (all in Upper Willamette)¹

Coastal Cutthroat Trout



Federal Designation: Species of Concern
Biological Objective: None
Status: Unknown

Oregon Chub



Federal Designation: Endangered
Population: Willamette Basin
Biological Objectives: 20 populations of at least 500 adults¹
Status: 33 populations; 18 with >500 individuals⁵

BPA-Funded Wildlife Projects in the Willamette Subbasin

Project	Sponsor	Acres	HU	Habitat Type
Amazon Basin/Eugene Wetlands	TNC			
Implement Willamette Basin Mitigation Program	ODFW			
Protect and Enhance Tualatin River National Wildlife Refuge Additions	USFWS			
Coburg Ridge	TNC			

Per Willamette Subbasin.....