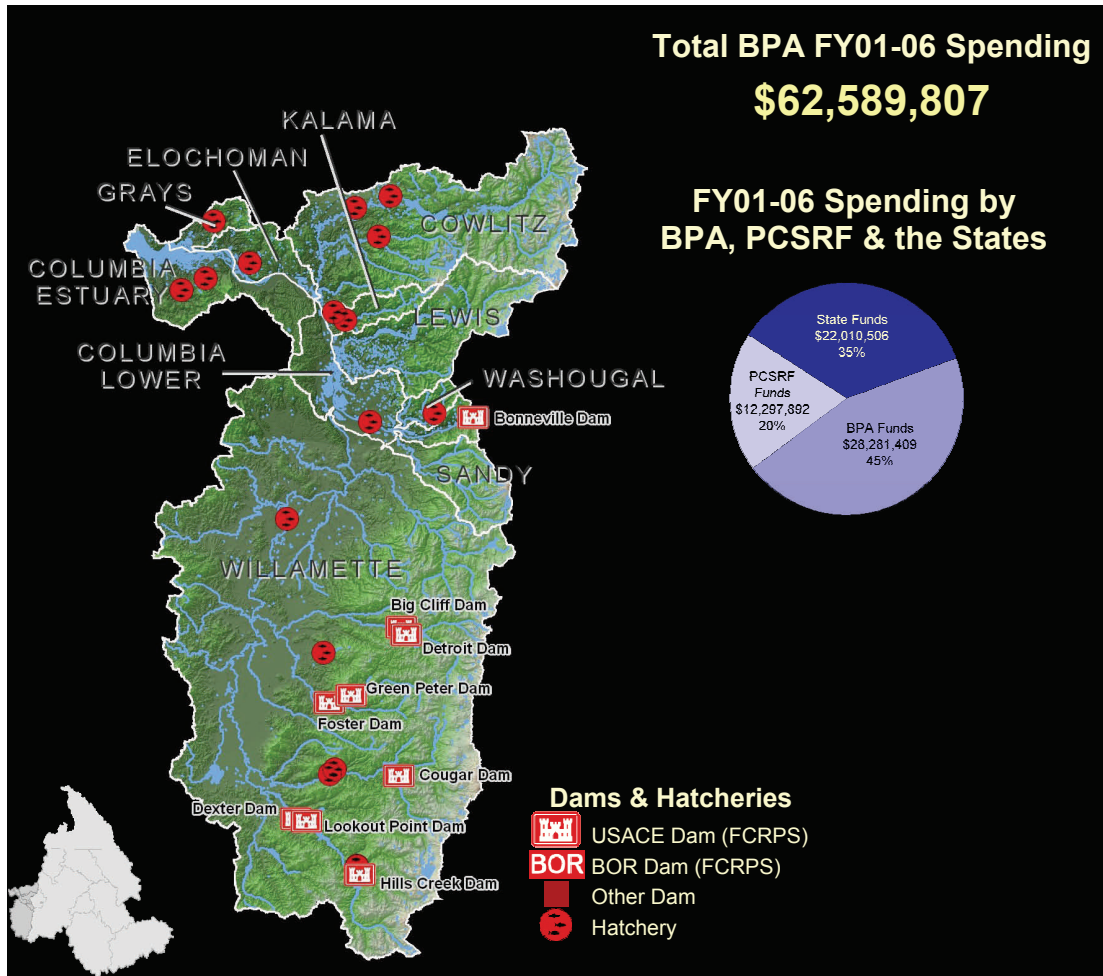


Lower Columbia/Columbia Estuary



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 run-off 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.cbfwa.org/sotr.

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

| Hatchery | Species | Released | Returned |
|----------|---------|----------|----------|
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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 | | | | | | | | | |
| Chinook Spring | | | | | | | | | |
| Chinook Fall | | | | | | | | | |
| Chum | | | | | | | | | |
| Coastal Cutthroat Trout | | | | | | | | | |
| Coho | | | | | | | | | |
| Green Sturgeon | | | | | | | | | |
| Oregon Chub | | | | | | | | | |
| Pacific Lamprey | | | | | | | | | |
| Steelhead Winter | | | | | | | | | |
| Steelhead Summer | | | | | | | | | |
| White Sturgeon | | | | | | | | | |

| | | | | |
|---------------------|------------|--------------------|------------|------------|
| Not a focal species | Not listed | Species of Concern | Threatened | Endangered |
|---------------------|------------|--------------------|------------|------------|

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)

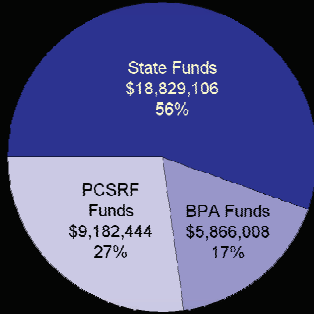
| Wildlife Losses Hydroelectric Facilities in the Lower Columbia/Estuary Province | | |
|--|--------------|--|
| Dam | Habitat Lost | Credited, protected, enhanced, and estimated |
| Big Cliff | | |
| Cougar | 11,124 | 511 |
| Detroit | 11,298 | 0 |
| Dexter | 6,648 | 196 |
| Foster | 3,544 | 96 |
|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



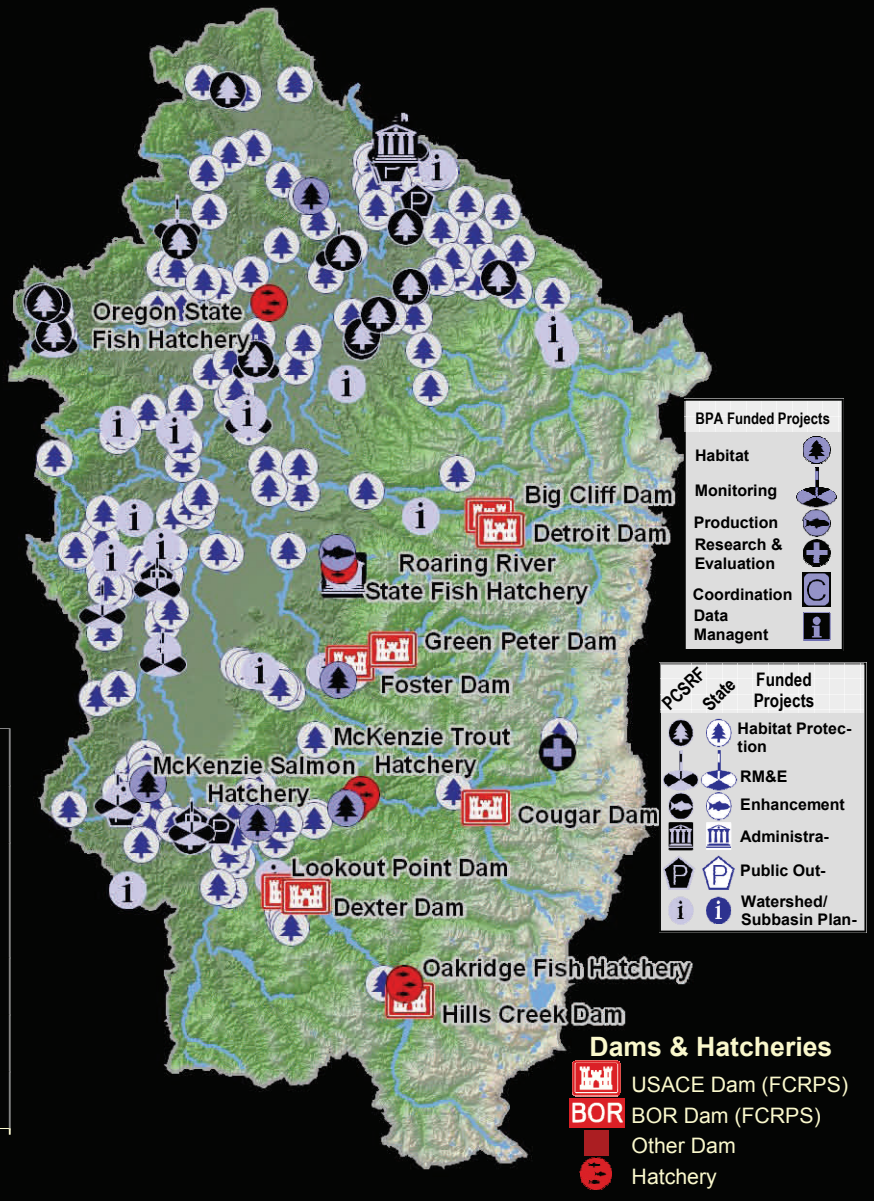
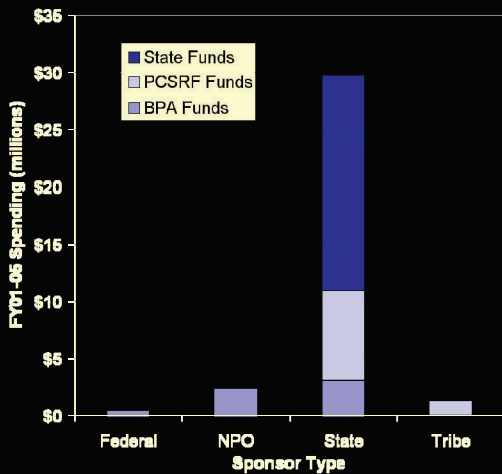
Total FY01-06 Spending

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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

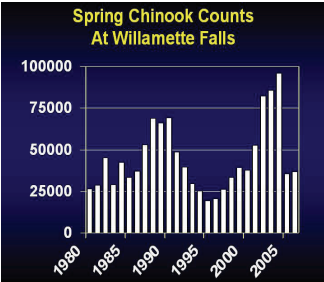
Oak woodlands
 Upland prairie, savanna, and rock outcrops
 Wetland prairie and seasonal marsh
 Perennial ponds and their riparian areas
 Riparian areas
 Old growth conifer forests

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



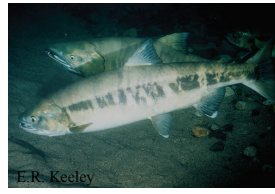
Spring

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

Fall

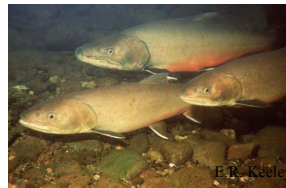
Federal Designation: Threatened
ESU: Lower Columbia
Biological Objective: None
Status: Returns to the Clackamas have declined nearly to the point of extinction (2003)⁴

Chum

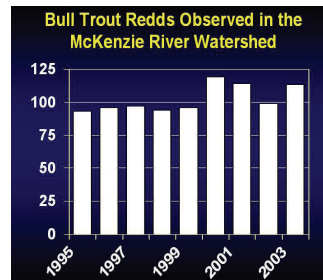


Federal Designation: Threatened
ESU: Lower Columbia
Biological Objective: None
Status: Extirpated

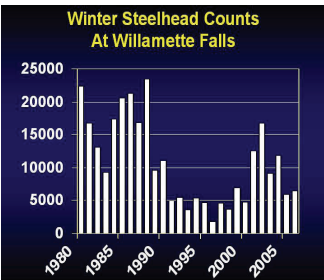
Bull Trout



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



Steelhead



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}

Coastal Cutthroat Trout



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

Coho



Federal Designation: Threatened
ESU: Lower Columbia
Biological Objective: 1,900 natural adults (Clackamas)⁴
Status: 318 late-run (native) adults to North Fork Dam (2005-06)³; 1,263 early-run adults to North Fork Dam (2006)³

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.....