

Figure K-2. Additional BPA-sponsored research and monitoring efforts related to fish, wildlife, and habitats in the Salmon Subbasin, Idaho.

Project title and number	Primary agency	Years	Summary information	Results /milestones	Geographic area of coverage														
					UPS	PAH	MSP	LEM	MFU	MFL	MSC	SFS	LOS	LSA					
Increase Alturas Lake Cr Flow / Busterback Ranch(8341500).	Sawtooth National Forest.	1983-1989	Acquisition of minimum streamflows for Alturas Lake Creek and Salmon River. The purchase of the 2,201 acre Busterback Ranch and its water rights was the major tool in this effort. The USFS bought the land and BPA bought the water rights	This project acquired minimum streamflows for Alturas Lake Creek and the Salmon River by the purchase of the 2,201 acre Busterback Ranch and its water rights. The project was completed in 1992. U. S. Forest Service administers this property, under a memorandum of interagency agreement signed in spring 1992 by USFS and BPA. USFS paid most of the purchase price for the property. BPA contributed \$769,000 toward the purchase price of \$3,200,000. Our contribution was for water rights appurtenant to the property. The Forest Service transferred \$2,431,000 to BPA, which we disbursed to a title company along with our \$769,000 to accomplish the closing.	X														
Pole Creek Irrigation Diversion Screening(8341600).	Sawtooth National Forest.	1983	Construction of a screen at an irrigation diversion on Pole Creek, a Salmon River tributary in Stanley Basin and a change in the method of irrigation allowing some water to remain in the stream.	Surveys have estimated that the area above the Pole Creek diversion is capable of supporting 937 Chinook spawners and 563 steelhead spawners. An estimated 25 percent of the juveniles produced by these spawners would have been lost in the diversion before the screen was installed, this represents an annual loss of up to 234 chinook and 141 steelhead.	X														
Camas Creek Riparian Protection(8402300)	USFS - Region 4	1984-1993	Improve stream bank conditions to increase spawning and rearing potential on Camas Creek, Idaho through riparian fencing, bank and instream work. M & E is conducted via projects 8300700 & 8300900.	Riparian areas have been reestablished, providing suitable habitat for migrating/spawning fish. Fences and fording gates have provided conducive environment for increase in redds and less use of property within the fenced areas. The habitat effort has resulted in significant improvements in the riparian vegetation and stream condition in the project area. This project is expected to result in the production of an additional 4,586 smolt or 76 adult summer steelhead and 24,570 smolt or 128 adult spring chinook salmon (May and Rose, 1986).					X										
Marsh, Elk Creek & Upper Salmon River Habitat Work(8402400).	USFS - Region 4	1984-1996	Survey & evaluate streams in the upper Middle Fk Salmon R and the upper Salmon River drainages. Improve stream habitat by riparian fencing and instream work. Continue with O&M of projects to insure long term benefits.	Detailed surveys have measured the quantity of habitat that could be enhanced. Data has been developed to quantify expected increases in fish habitat and fish standing crops using fish population/standing crop surveys and applicable data from similar streams. Measures to improve habitat, including in some cases fencing, streambank stabilization, and instream structures have been completed. BPA and the USFS have agreed to plan and design these projects cooperatively; funding for implementation shall be accomplished on a cost sharing basis between the two Federal agencies. During August and September 1995 a physical inventory was conducted on selected streams by USFS personnel. Photo points were retaken at major project sites. Adult chinook salmon spawning ground counts have occurred each August. The upper Salmon River, Valley Creek, Pole Creeks and Knapp Creek were walked to tally chinook salmon spawning associated with project sites. At the same time, Boise National Forest personnel conduct an intensive inventory of spawning salmon in the Bear Valley drainage.	X				X										
S Fk Salmon River Anadromous Fish Enhancement(9303300)	USFS - Region 4	1993-1995	Increase summer chinook and steelhead production by reducing sediment loading and providing habitat diversity (fencing) in the South Fork of the Salmon River Basin.	Worked on reducing sediment in the South Fork of the Salmon River and two of its tributaries, Johnson Creek and Lake Creek. Improved stream habitat with the potential benefit to summer Chinook as an increase in smolt production of 223,774; and to summer steelhead, 13,805.											X				