APPENDIX 4-1—SALMON SUBBASIN PROJECT INVENTORY

The purpose of the project inventory is to provide a generalized picture of the types of fish and wildlife restoration activities that are currently being conducted in the watershed, along with information as to who is responsible for funding the projects. The information presented here was collected from technical and planning team participants through the project inventory website or through direct submission. Additional information was collected from websites of funding and implementation agencies and through interviews of nonparticipants. Due to the size of the Salmon subbasin and the number of agencies, nonprofit organizations, and private parties actively engaged in fish and wildlife restoration activities, it is unlikely that all activities implemented within the last 5 years have been captured here. However, we believe that the information provided here covers the broad scope of most of the current types of activities taking place.

One of the challenges in building the project inventory is finding summarized descriptions of the work. Some agencies have summary tables of their projects, while others have full descriptions of work proposed or to be done. The various National Forests are examples of that situation. Some National Forests have tables listing their projects, while others have pages of scoping documents.

Other projects are part of an overall work effort. Examples are the Idaho Department of Fish and Game's habitat improvement projects through the WMA (Wildlife Management Areas) and HIP (Habitat Improvement Program) programs. The work is described in terms of regions, costs, and numbers and types of sites but not in terms of specific watersheds.

On the other hand, there are numerous small projects. We acquired data from the BLM Challis office describing many such projects (which are summarized in our tables). Many of them were relatively inexpensive and required little time, such as trough or fence installations and maintenance on existing features.

There are also programs that affect the environment such as the noxious weed control programs. The weed control program is conducted by weed control districts composed of communities, counties, or regions. Other weed control projects are conducted outside the weed control program by other resource management agencies.

Redundancies in listings also occur because many projects are joint ventures and were listed by each organization. For some organizations, the land holdings are the projects. The Nature Conservancy is one such example. Each of its land holdings is listed as a project. There may be some detail about the restorative or maintenance activities but not always. The same is true of some regional organizations that establish conservation easements. One such organization is the Teton Regional Land Trust. Its members have contributed funds and set aside properties for conservation. Sometimes work is done; other times, land is just protected from development.

Project Name (BPA contract #)	Subbasin/ Location	Status	Begin Year	End Year	Implementing/ Principal Agency	Funding/ Sponsor	Cause of Limiting Factors	Project Description	Comments/ Results/ Monitoring	Geographic area of coverage									
										UPS	PAH	MSP	LE	MF	MF	MS	SFS	LOS	LSA
Idaho Anadromous Fish Screening Program (Mitchell Act)	All anadromous HUCs	ongoing	1950	ongoing	IDFG	BPA/NOAA Fisheries	Fish entrainment into irrigation systems	Installed and maintained ~300 fish screens throughout the Upper Salmon Basin.	Screen tenders maintain screens on a daily basis to assure proper functioning condition, duties include; observations of fish behavior and salvaging fish during irrigation shutdowns. PIT-tag remote sensing for entrainment and migration timing.	X	X	X	X	X	X	X	X	X	X
POLE CREEK EXCLOSURE RNA	Salmon–Headwaters	complete	1972	1996	Idaho Department of Fish and Game Conservation Data Center, and Sawtooth National Recreation Area	Sawtooth National Recreation Area		The site has been used for grazing studies by Bill Platts. Occasionally, trespass cattle have lightly grazed within the exclosure.	The site is an old horse pasture for the Pole Creek Guard Station.	X									
SAWTOOTH VALLEY PEATLANDS RNA	Salmon–Headwaters	complete	1972	1998	Idaho Department of Fish and Game Conservation Data Center	Sawtooth National Recreation Area		Past and ongoing sheep and cattle grazing has occurred in the vicinity of the RNA. The saturated peat substrate, however, is very unstable for a human to walk on and it is doubtful that livestock entered the peatlands to any significant degree.		x									
REDFISH LAKE MORAINE RNA	Salmon–Headwaters	Unknown	1979	1998	Idaho Department of Fish and Game Conservation Data Center	Sawtooth National Recreation Area		There is some concern that timber harvest activities adjacent to the eastern boundary could impact the RNA.		x									
Pole Creek Irrigation Diversion Screening (8341600).	Salmon–Headwaters	complete	1983	1983	Sawtooth National Forest and IDFG	Sawtooth National Forest and IDFG		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. Replaced in 2000 by IDFG.	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									

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										UPS	PAH	MSP	LE	MF	MF	MS	SFS	LOS	LSA
Camas Creek, Middle Fork Salmon River Riparian Protection (8402300)	Middle Fork Salmon River		1984	1993	USFS–Region 4			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 habit 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					

Project Name (BPA contract #)	Subbasin/ Location	Status	Begin Year	End Year	Implementing/ Principal Agency	Funding/ Sponsor	Cause of Limiting Factors	Project Description	Comments/ Results/ Monitoring	Geographic area of coverage									
										UPS	PAH	MSP	LE	MF	MF	MS	SFS	LOS	LSA
Marsh, Elk Creek & Upper Salmon River Habitat Work (8402400).			1984	1996	USFS–Region 4			Survey & evaluate streams in the upper Middle Fork Salmon River 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					

Project Name (BPA contract #)	Subbasin/ Location	Status	Begin Year	End Year	Implementing/ Principal Agency	Funding/ Sponsor	Cause of Limiting Factors	Project Description	Comments/ Results/ Monitoring	Geographic area of coverage									
										UPS	PAH	MSP	LE	MF	MF	MS	SFS	LOS	LSA
Water Budget Management (8353600)			1984	1987	Pacific States Marine Fish Com			Management of the Water Budget, monitoring of juvenile fish migration and determination of migration timing, travel, survival, etc. Project was developed in conjunction with 8000100, 8349100, and 8666000. About 25 hatcheries and dams participated.	Using data on fish movements supplied by the Smolt Monitoring Program (Project 80-1), the Water Budget Managers requested flows and spill over dams to afford the best possible conditions for fish passage. In conjunction with project 8349100 and project 8666000 there was also monitoring of juvenile fish migration and determination of emigrational characteristics of the smolt out migration , including migration timing, travel time, and smolt survival. About 25 hatcheries and dams participated in the study.	X	X	X	X	X	X	X	X	X	X
Bear Valley Creek, Lemhi River Riparian Enhancement	Bear Valley Creek– Tributary to Hayden Cr./Lemhi River.	complete	1986	2001	Salmon Challis NF, Leadore RD.	Federal	Channel structure, sediment, temperature, nutrients and riparian forest.	Riparian exclosure fence–3.0 miles of stream.	Bank stability monitoring, photo points, stream habitat comparison				X						
Hawley Creek, Lemhi River Riparian Enhancement 3	Hawley Creek– Tributary to the Lemhi River.	complete	1986	2001	Salmon Challis NF, Leadore RD.	Federal	Channel structure, sediment, temperature, nutrients and riparian forest.	Riparian exclosure fence–2.0 miles of stream.	Bank stability monitoring, photo points, stream habitat comparison				X						
	Maloney Creek Conservation easement.		1989		BLM (CFO)	BLM		Acquired a conservation easement on 79 acres at the mouth of Maloney Cr. and along Salmon River.	Easement restricts further development or sale of private adjacent to Maloney Creek and bordering Salmon River. Easement does allow existing uses to continue (e.g., livestock grazing).									X	
East Fork Salmon River Tributary Riparian Enhancement (Road Creek)	Road Creek, tributary to East Fork Salmon River	complete	1990	1990	BLM–Challis Field Office	Federal	Channel structure, sediment, temperature, nutrients and riparian forest.	Anderson Ranch Riparian exclosure Fence; excluded grazing from 2 miles of stream. Fence is connected to Forest Service exclosure; 4 miles of stream excluded from grazing.	Photo point, streambank stability, salmonid population monitoring	X									

Project Name (BPA contract #)	Subbasin/ Location	Status	Begin Year	End Year	Implementing/ Principal Agency	Funding/ Sponsor	Cause of Limiting Factors	Project Description	Comments/ Results/ Monitoring	Geographic area of coverage									
										UPS	PAH	MSP	LE	MF	MF	MS	SFS	LOS	LSA
Little Boulder Burn.	Salmon–Headwaters	complete	1990	1990	Sawtooth National Recreation Area	USDA FS		Goal: prescribed burn treating portions of the Little Boulder and Wickiup Creek drainages. Benefit: Habitat maintenance Species: terrestrial. SK, CH,SH,BT,CT adjacent	Photographs. UTM 4883532 N, 697977 E	x									
Middle Fork SR Tributary riparian enhancement (Camas Creek)	Camas Creek–Tributary to the Middle Fork of Salmon River	complete	1990	1992	Salmon Challis NF, Salmon Cobalt RD	Federal (BPA)	Channel structure, sediment, temperature, nutrients and riparian forest.	1.5 miles fence to protect riparian habitat	Greenline surveys for deciduous trees and shrubs; redd surveys; photo points						X				
Pole Creek Meadows Gulley Treatments	Salmon–Headwaters	complete	1990	1990	Sawtooth National Recreation Area	Bonneville Power		Goal: install boulder drop structures in cutoff gully to prevent further deterioration. Benefit: Habitat maintenance Species: BT,CT	Photographs.	x									
Salmon River S42/S43 Diversions Modifications	Salmon–Headwaters	complete	1990	1990	Sawtooth National Recreation Area	Bonneville Power		Goal: install several boulder drop structures to halt and reverse River downcutting in relation to the use of the S42 and S43 diversions. Benefit: Passage maintenance Species: SK,CH,SH,BT,CT	Photographs.	x									
Salmon River Stabilization at Hanson Pullout	Salmon–Headwaters	complete	1990	1990	Sawtooth National Recreation Area	Bonneville Power		Goal: install 3 boulder barbs/sills to prevent further River pressure against highway 75. Benefit: Habitat maintenance Species: SK,CH,SH,BT,CT	Photographs.	x									
Salmon River Tributary riparian enhancement (Hot Springs Creek)	Hot Springs Creek–Tributary to the Salmon River.	ongoing	1990	ongoing	BLM–Salmon Field Office	Federal	Channel structure, sediment, temperature, nutrients and riparian forest.	Riparian habitat improvement by adjusting frequency/duration of grazing–3.0 miles of stream.	Bank stability monitoring, photo points, stream habitat comparison			X							
Salmon River Tributary riparian enhancement (Panther Creek)	Panther Creek–Tributary to the Salmon River	complete	1990	2000	Salmon Challis NF, Salmon Cobalt RD	Federal	Channel structure, sediment, temperature, nutrients and riparian forest.	Construction of three separate exclosures totaling approx 2.0 miles of Panther Creek near Morgan Cr Summit, Opal Creek, and Moyer FS compound	Sediment monitoring			X							

Project Name (BPA contract #)	Subbasin/ Location	Status	Begin Year	End Year	Implementing/ Principal Agency	Funding/ Sponsor	Cause of Limiting Factors	Project Description	Comments/ Results/ Monitoring	Geographic area of coverage									
										UPS	PAH	MSP	LE	MF	MF	MS	SFS	LOS	LSA
Salmon River Tributary riparian enhancement (Panther Creek)	Panther Creek–Tributary to the Salmon River	complete	1990	2000	Salmon Challis NF, Salmon Cobalt RD	Federal	Channel structure, sediment, temperature, nutrients and riparian forest.	Construction of a 1.0 mile long fence to create a riparian pasture near Corral Creek	Sediment monitoring			X							
Salmon River Tributary riparian enhancement (Warm Springs Creek)	Warm Springs Creek–Tributary to the Salmon River.		1990		BLM–Salmon Field Office	Federal	Channel structure, sediment, temperature, nutrients and riparian forest.	Riparian habitat improvement by adjusting frequency/duration of grazing–2.0 miles of stream.	Bank stability monitoring, photo points, stream habitat comparison			X							
Washington Basin Trail Reconstruction	Salmon–Headwaters	complete	1990	1990	Sawtooth National Recreation Area	USDA FS		Goal: relocate several deteriorating segments of the trail, many in or adjacent to headwater tributaries. Enhance trail drainage throughout. Benefit: Habitat and watershed restoration Species: CH,SH,BT,CT	Photographs. UTM 4877386 N, 690946 E	x									
	Camas Creek–Tributary to the Middle Fork of the Salmon River		1990	1992	Salmon Challis NF, Salmon Cobalt RD	Federal (BPA)		Camas Creek streambank stabilization	Sediment monitoring						X				
	See Appendix A in Bear Valley Watershed Analysis 2000		1990	1993	BPA, USFS (BNF)	BPA, USFS (BNF)		Various stream channel restoration projects (22 check dams, 58 log and rock structures, 3 rock barbs, 9 miles of fencing etc.)	Very little monitoring or evaluation at this time. See Bear Valley Watershed Analysis 2000					X					
	Boise Cascade property, Mud Creek and Little Mud Creek		1990	1995	Boise Cascade, IDFG, Trout Unlimited	Boise Cascade, IDFG, Trout Unlimited		Riparian fencing, planting, livestock rotational grazing	photo record; stream temperature monitoring										X

Project Name (BPA contract #)	Subbasin/ Location	Status	Begin Year	End Year	Implementing/ Principal Agency	Funding/ Sponsor	Cause of Limiting Factors	Project Description	Comments/ Results/ Monitoring	Geographic area of coverage									
										UPS	PAH	MSP	LE	MF	MF	MS	SFS	LOS	LSA
	See Appendix A in Bear Valley Watershed Analysis 2000		1990	1998	USFS (BNF), and in some cases TU, IDFG and Shoshone-Bannock Tribes.	USFS (BNF)		Various stream channel restoration projects (revetments, willow and sedge plantings, cattle barriers, vehicle barriers, ~30 log barbs, etc).	Very little monitoring or evaluation at this time. See Bear Valley Watershed Analysis 2000					X					
	see Faurot and Burns 1999; M. Faurot, pers. comm.		1990	2000	USFS (PNF)	USFS (PNF)		43 miles road obliteration or conversion to trail	see Payette NF Watershed Monitoring reports (Dave Kennell)								X		
	Partridge Cr.		1990		BLM (CFO)	BLM		Rehabilitated large active eroding gullies occurring on steep slopes, rehabilitated slumps, and provided improved drainage to reduce erosion and sediment. Graveled road segments to reduce active erosion and sediment delivery to stream.	Post-project monitoring found that negligible erosion and sediment has occurred after project completed. Gullies stabilized and revegetated.									X	
	Upper SFSR -Two-bit Six-bit Loop Road #493		1990		Boise NF; Cascade RD	USFS		Road spot stabilization									X		
Big Boulder Dam Removal	Salmon–Headwaters	complete	1991	1991	Shoshone-Bannock Tribes	Bonneville Power		Goal: remove 15' high dam formerly used for hydroelectric purposes for nearby mining Benefit: Passage restoration Species: CH,SH,BT,CT	Before/after photographs. Antidotal evidence of renewed passage.	x									
Elk Creek Boat Launch Reconstruction	Salmon–Headwaters	complete	1991	1991	Sawtooth National Recreation Area	USDA FS		Goal: reconstruct boat launch facility to improve riverside habitats, and improve public safety. Benefit: Habitat restoration Species: SK,CH,SH,BT,CT	Photographs.	x									
Forest road obliteration to return to natural state	Upper Middle Fork–Swamp and Asher creeks	complete	1991	1991	Challis NF, Yankee Fork RD	Federal	Sediment delivery to receiving stream	2.5 miles of road obliteration for wildlife security						X					
Forest road obliteration to return to natural state	Various areas on Forest.	complete	1991	1991	Salmon Challis NF, Leadore and Salmon Cobalt RD	Federal	Sediment delivery to receiving stream	20.0 miles of road obliteration for wildlife security		X	X	X	X	X					

Project Name (BPA contract #)	Subbasin/ Location	Status	Begin Year	End Year	Implementing/ Principal Agency	Funding/ Sponsor	Cause of Limiting Factors	Project Description	Comments/ Results/ Monitoring	Geographic area of coverage									
										UPS	PAH	MSP	LE	MF	MF	MS	SFS	LOS	LSA
Gold Creek Aspen Regeneration.	Salmon–Headwaters	complete	1991	1991	Sawtooth National Recreation Area	USDA FS		Goal: cutting of aspen clones to promote regeneration within the Gold Creek drainage. Benefit: Habitat restoration Species: terrestrial. SK, CH,SH,BT,CT adjacent	UTM 4887237 N, 673321 E	x									
Lemhi River Tributary riparian enhancement (Pattee Creek)	Pattee Creek–Tributary to the Lemhi River.	complete	1991	2000	BLM–Salmon Field Office	Federal	Channel structure, sediment, temperature, nutrients and riparian forest.	3 riparian exclosure fences–4.0 miles of stream.	Bank stability monitoring, photo points, stream habitat comparison				X						
Lemhi River Tributary riparian enhancement (Pattee Creek)	Pattee Creek–Tributary to the Lemhi River.	ongoing	1991	ongoing	Salmon Challis NF, Leadore RD.	Federal	Channel structure, sediment, temperature, nutrients and riparian forest.	Riparian habitat improvement by adjusting frequency/duration of grazing–2.0 miles of stream	Bank stability monitoring, photo points, stream habitat comparison				X						
Lemhi River Tributary riparian enhancement (Pattee Creek)	Pattee Creek–Tributary to the Lemhi River.	ongoing	1991	ongoing	Salmon Challis NF, Leadore RD/BLM–Salmon Field Office	Federal	Channel structure, sediment, temperature, nutrients and riparian forest.	Riparian habitat improvement by adjusting frequency/duration of grazing–8.0 miles of stream	Bank stability monitoring, photo points, stream habitat comparison				X						
Lemhi River Tributary riparian enhancement (Yearian Creek)	Yearian Creek–Tributary to the Lemhi River.	complete	1991	1991	BLM–Salmon Field Office	Federal	Channel structure, sediment, temperature, nutrients and riparian forest.	Riparian exclosure fence–1 mile of stream.	Bank stability monitoring, photo points, stream habitat comparison				X						
Lemhi River Tributary riparian enhancement (Yearian Creek)	Yearian Creek–Tributary to the Lemhi River.	ongoing	1991	ongoing	BLM–Salmon Field Office	Federal	Channel structure, sediment, temperature, nutrients and riparian forest.	Riparian habitat improvement by adjusting frequency/duration of grazing–8.0 miles of stream.	Bank stability monitoring, photo points, stream habitat comparison				X						
North Fork Salmon River Tributary Fish Passage Improvements (Nez Perce and Threemile creeks)	Nez Perce and Three Mile creeks–Tributaries to NFSR.	complete	1991	1991	Salmon Challis NF, NFRD	Federal	Fish passage	Replaced barrier culverts to provide fish access.				X							

Project Name (BPA contract #)	Subbasin/ Location	Status	Begin Year	End Year	Implementing/ Principal Agency	Funding/ Sponsor	Cause of Limiting Factors	Project Description	Comments/ Results/ Monitoring	Geographic area of coverage									
										UPS	PAH	MSP	LE	MF	MF	MS	SFS	LOS	LSA
Salmon Falls C&H Pole Creek Fence.	Salmon–Headwaters	complete	1991	1991	Sawtooth National Recreation Area	USDA FS		Goal: construct 4 miles of riparian fence along the Pole Creek preclude livestock access. Benefit: Habitat maintenance Species: CH,SH,BT,CT	Inspection notes. UTM 4865519 N, 677310 E	x									
Salmon River Tributary Fish Passage Improvement (Pine Creek)	Porphyry, Cabin, Otter, and Opal creeks–Tributaries to Panther Creek.	complete	1991	1991	Salmon Challis NF, Salmon Cobalt RD	Federal	Fish passage	Replace barrier culverts to provide fish passage.				X							
Salmon River Tributary Fish Passage Improvement (Pine Creek)	Pine Creek	complete	1991	1991	Salmon Challis NFN, FRD	Federal	Fish passage	Replace 2 barrier culverts with bridge. Adding drainage structures on 2 miles of road and resurfacing .5 miles road.				X							
	see Faurot and Burns 1999; M. Faurot, pers comm.		1991	2000	USFS (PNF)	USFS (PNF)		80.25 miles road/trail improvements	see Payette NF Watershed Monitoring reports (Dave Kennell)								X		
	Johnson Creek–Lunch Creek Road # 415 spurs		1991		Boise NF; Cascade RD	USFS		Road closure									X		
	Johnson Creek–Sheep Creek Road # 454 spurs		1991		Boise NF; Cascade RD	USFS		Road closure									X		
	Johnson Creek Road Spurs : #444, 445, 449		1991		Boise NF; Cascade RD	USFS		Road closure									X		
	Upper Johnson Creek–Tyndall Meadows roads		1991		Boise NF; Cascade RD	USFS		Road closure									X		
	Upper SFSR–SF Rice Creek Road Spurs # 478, 488, 470, 471		1991		Boise NF; Cascade RD	USFS		Road closure									X		

Project Name (BPA contract #)	Subbasin/ Location	Status	Begin Year	End Year	Implementing/ Principal Agency	Funding/ Sponsor	Cause of Limiting Factors	Project Description	Comments/ Results/ Monitoring	Geographic area of coverage									
										UPS	PAH	MSP	LE	MF	MF	MS	SFS	LOS	LSA
Busterback Purchase	Salmon–Headwaters	complete	1992	1992	Sawtooth National Recreation Area	USDA FS and Bonneville Power		Goal: purchase former Busterback Ranch, and discontinue irrigation withdrawals Benefit: Passage restoration Species: CH,SH,BT,CT	Photographs. Confirmed passage and spawning. UTM 4871586 N, 674560 E	x									
Busterback Ranch Purchase (duplicate)	Salmon–Headwaters	complete	1992	1992	Sawtooth National Recreation Area	USDA FS and BPA	water	Acquisition of 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. BPA contributed 25% towards the purchase price.	This project acquired streamflows for Alturas Lake Creek and the Salmon River by the purchase of the 2,201 acre Busterback Ranch and its water rights. The purchase was completed in 1992. U. S. Forest Service administers this property. An MOU related to the water rights and use, facilitated the participation and contribution of BPA towards the purchase.	X									
Columbia Basin Regional Fish Screening (9202800)			1992	1996	Pacific States Marine Fish Com, Columbia Basin F&W Foundation			Plan and oversee the environmental, design and construction of several thousand fish screens and adult fish passage facilities in the Columbia River Basin.	The FSOC has developed a regional plan of high priority and long-term fish passage and screening improvements. We have initiated NEPA and design of high priority projects, identified cost sharing arrangements, and implemented high priority improvements with Mitchell Act funds.	X	X	X	X	X	X	X	X	X	X
Fourth of July Road Reconstruction	Salmon–Headwaters	complete	1992	1992	Sawtooth National Recreation Area	USDA FS		Goal: Reconstruct 8 miles of Fourth of July Creek Road to reduce the effects of road produced sediments. Benefit: Habitat restoration Species: CH,SH,BT,CT	Photographs. UTM 4879455 N, 681671 E	x									
Idaho Anadromous Fish Screening Program (Mitchell Act)	All anadromous HUCs	ongoing	1992	ongoing	IDFG	BPA/NOAA Fisheries	Fish entrainment into irrigation systems	Replaced 6 fish screens, eliminated 2 fish screens, installed 1 new drum screen: eliminated 2 diversion dams, and demolition of 6 old fish screens.	Screen tenders maintain screens on a daily basis to assure proper functioning condition, duties include; observations of fish behavior and salvaging fish during irrigation shutdowns.	X	X	X	X	X	X	X	X	X	X
Insinger Diversion Modifications	Salmon–Headwaters	complete	1992	1992	Sawtooth National Recreation Area	USDA FS		Goal: modify EF21 diversion intake to prevent further deterioration of habitat conditions Benefit: Habitat maintenance Species: CH,SH,BT,CT	Photographs. Surveyed profile and cross-sections. UTM 4885004 N, 704813 E	x									

Project Name (BPA contract #)	Subbasin/ Location	Status	Begin Year	End Year	Implementing/ Principal Agency	Funding/ Sponsor	Cause of Limiting Factors	Project Description	Comments/ Results/ Monitoring	Geographic area of coverage									
										UPS	PAH	MSP	LE	MF	MF	MS	SFS	LOS	LSA
Law Enforcement Protection Of Salmonids (IDFG) (9202404)			1992	1996	IDFG			Increase levels of fishery harvest & habitat law enforcement throughout the Columbia River Basin. See Project 9202400.	Substantial improvements in law enforcement statistics and inter-dam conversion rates of adult salmon runs have occurred during 1992-1995 -- longer term time series is needed for evaluation of the effects due to the enhanced law enforcement program. Protection of critical habitat and enforcement of diversion screening compliance has occurred.	X	X	X	X	X	X	X	X	X	X
Law Enforcement Protection-Salmon Stocks (CRITFC) (9202401).			1992	1996	CRITFC			Increase levels of fishery harvest & habitat law enforcement throughout the Columbia River Basin. See description of Project 9202400. Grant to Columbia River Inter-Tribal Fish Commission (CRITFC).	Substantial improvements in law enforcement statistics and inter-dam conversion rates of adult salmon runs have occurred during 1992-1995 -- longer term time series is needed for evaluation of the effects due to the enhanced law enforcement program. Protection of critical habitat and enforcement of diversion screening compliance has occurred.	X	X	X	X	X	X	X	X	X	X
Salmon 45 Diversion Inlet Plug and Modification	Salmon–Headwaters	complete	1992	1992	Sawtooth National Recreation Area	USDA FS		Goal: modify S45 diversion for passage Benefit: Passage restoration Species: CH,SH,BT,CT	Photographs. Confirmed passage.	x									
Salmon River Tributary Fish Passage Improvements (Squaw and Spring creeks)	Squaw and Spring creeks.–Tributaries to main Salmon.	complete	1992	1992	Salmon Challis NF, NFRD	Federal	Fish passage	Replaced barrier culverts to provide fish access.				X							
Salmon River Tributary Habitat Improvement (Panther Creek)	Panther Creek–Tributary to the Salmon River	complete	1992	1992	Salmon Challis NF, Salmon Cobalt RD	Federal	Holding/resting habitat, sediment, riparian forest	LWD Recruitment along 5 miles of Panther Creek from the Cobalt Ranger Station to Moyer Cr.				X							
Stanley Basin C&H Stanley Creek Study Pastures	Salmon–Headwaters	complete	1992	1992	USDA FS Research	USDA FS		Goal: Construct 4 miles of riparian fence around 7 riparian pastures along Stanley Creek to tightly control livestock use of riparian bottom for research. Benefit: Habitat maintenance Species: CH,SH,BT,CT	Inspection notes. Research studies. UTM 4902693 N, 661242 E	x									

Project Name (BPA contract #)	Subbasin/ Location	Status	Begin Year	End Year	Implementing/ Principal Agency	Funding/ Sponsor	Cause of Limiting Factors	Project Description	Comments/ Results/ Monitoring	Geographic area of coverage									
										UPS	PAH	MSP	LE	MF	MF	MS	SFS	LOS	LSA
Trap Creek Diversion Plug and Modification	Salmon–Headwaters	complete	1992	1992	Sawtooth National Recreation Area	USDA FS		Goal: discontinue irrigation withdrawals. Modify TRC1 diversion to facilitate consistent passage. Benefit: Passage restoration Species: CH,SH,BT,CT	Photographs.	x									
Valley Creek Boulders	Salmon–Headwaters	complete	1992	1992	Sawtooth National Recreation Area	USDA FS		Goal: boulder cluster placement to increase rearing habitat complexity (e.g. pocket pools) Benefit: Habitat enhancement Species: SK,CH,SH,BT,CT	Photographs. UTM 4898560 N, 665411 E	x									
Vat Creek Wetland Restoration	Salmon–Headwaters	complete	1992	1992	Sawtooth National Recreation Area	Hecla Mining Co.		Goal: Restore large wetland and Vat Creek formerly drained with a network of ditches. Benefit: Habitat restoration Species: CH,SH,BT,CT	Photographs. Piezometers. Groundwater elevation and vegetation restored to identified goals. Report on file.	x									
	Pahsimeroi Watershed, East Fork Salmon River, main Salmon River		1992	2000	BLM–Challis Field Office	Federal		Application of grazing standards on all allotments. Use of standards has significantly improved riparian conditions throughout these watersheds.	Allotment monitoring throughout the grazing season for compliance with grazing standards (stubble height, streambank shearing, photo points).	X	X								
	see Faurot and Burns 1999		1992	2000	USFS (PNF)	USFS (PNF)		28.5 miles road reconstruction	see Payette NF Watershed Monitoring reports (Dave Kennell)								X		
	Upper Johnson Creek–Tyndall Meadows gully stabilization		1992		Boise NF; Cascade RD	USFS		treatment of gullies	photos								X		
	Upper SFSR–Scotty's mine road # 483A		1992		Boise NF; Cascade RD	USFS		road stabilization									X		
Agency Creek, Lemhi River Riparian Enhancement	Agency Creek–Tributary to the Lemhi River	0ngoin	1993	1993	BLM–Salmon Field Office	Federal	Channel structure, sediment, temperature, nutrients and riparian forest.	Riparian habitat improvement by adjusting frequency/duration of grazing.	Bank stability monitoring, photo points, stream habitat comparison				X						

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										UPS	PAH	MSP	LE	MF	MF	MS	SFS	LOS	LSA
Canyon Creek, Lemhi River Riparian Enhancement	Canyon Creek–Tributary to Lemhi River.	ongoing	1993	ongoing	BLM–Salmon Field Office	Federal	Channel structure, sediment, temperature, nutrients and riparian forest.	Riparian habitat improvement by adjusting frequency/duration of grazing–6.5 miles of stream.	Bank stability monitoring, photo points, stream habitat comparison				X						
Cow Creek, Lemhi River Riparian Enhancement	Cow Creek–Tributary to Agency Creek/Lemhi River.	complete	1993	1993	BLM–Salmon Field Office	Federal	Channel structure, sediment, temperature, nutrients and riparian forest.	2.0 miles fence protect riparian habitat.	Bank stability monitoring, photo points, stream habitat comparison				X						
Decker Flat Burn	Salmon–Headwaters	complete	1993	1993	Sawtooth National Recreation Area	USDA FS		Goal: implement prescribed burn in over mature sagebrush habitat to increase habitat complexity and ecotone. Benefit: Habitat restoration Species: terrestrial. SK, CH,SH,BT,CT adjacent	Photographs. UTM 4879834 N, 672475 E	x									
East Fork Salmon River Erosion Control, Baker 1 (USBWP # 1993001)	East Fork–Tributary to Salmon River	complete	1993	1993	IDFG, NRCS, Private Landowner	Natural Resources Conservation Service	Channel structure, sediment, temperature, nutrients and riparian forest.	Log barbs installed to control bank erosion along the East Fork.	Photo Reference Points, bank stability monitoring. Implementation monitoring.	X									
Eighteenmile Creek, Lemhi River Riparian Enhancement 1	18 mile Creek–Tributary to the Lemhi River	ongoing	1993	ongoing	BLM–Salmon Field Office	Federal	Channel structure, sediment, temperature, nutrients and riparian forest.	Riparian habitat improvement by adjusting frequency/duration of grazing–3.0 miles of stream.	Bank stability monitoring, photo points, stream habitat comparison				X						
Eighteenmile Creek, Lemhi River Riparian Enhancement 2	18 mile Creek–Tributary to the Lemhi River	complete	1993	1993	BLM–Salmon Field Office	Federal	Channel structure, sediment, temperature, nutrients and riparian forest.	1.0 mile fence to protect riparian habitat	Bank stability monitoring, photo points, stream habitat comparison				X						
Fisher Creek Road Reconstruction	Salmon–Headwaters	complete	1993	1993	Sawtooth National Recreation Area	USDA FS		Goal: Reconstruct 1.5 miles of Fisher Creek Road to reduce the effects of road produced sediment . Benefit: Habitat maintenance Species: BT,CT	Photographs. UTM 4880877 N, 678163 E	x									

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Hayden Creek, Lemhi River Riparian Enhancement	Hayden Creek–Tributary to the Lemhi River.	ongoing	1993	ongoing	Salmon Challis NF, Leadore RD/BLM–Salmon Field Office	Federal	Channel structure, sediment, temperature, nutrients and riparian forest.	Riparian habitat improvement by adjusting frequency/duration of grazing–30.0 miles of stream.	Bank stability monitoring, photo points, stream habitat comparison				X						
Headwaters Road and Ford Obliteration	Salmon–Headwaters	complete	1993	1993	Sawtooth National Recreation Area	USDA FS		Goal: close and rehabilitate ½ mile of user established route and ford through Salmon River. Benefit: Habitat restoration Species: CH,SH,BT,CT	Before/after photographs.	x									
Idaho Anadromous Fish Screening Program (BPA Project #1994-015-00)	All anadromous HUCs	ongoing	1993	ongoing	IDFG	BPA/NOAA Fisheries	Fish entrainment into irrigation systems	Replaced 14 fish screens, eliminated 1 fish screens, installed 2 headgates:, and demolition of 14 old fish screens.	Screen tenders maintain screens on a daily basis to assure proper functioning condition, duties include observations of fish behavior and salvaging fish during irrigation shutdowns.	X	X	X	X	X	X	X	X	X	X
Incr Law Enforcement Pt 5-Interagency Task Force Coord (9202405).			1993	1995	Superior Maintenance, Waste Management of Vancouver			Supports inter-agency task forces and coordination for fisheries harvest and habitat law enforcement throughout the Columbia Basin. See Project 9202400.	Substantial improvements in law enforcement statistics and inter-dam conversion rates of adult salmon runs have occurred during 1992–1995. Longer term time series is needed for evaluation of the effects due to the enhanced law enforcement program. Protection of critical habitat and enforcement of diversion screening compliance has occurred.	X	X	X	X	X	X	X	X	X	X
Lemhi River Diversion Elimination and Enhancement, L16/L17 (USBWP # 1997005)	Lemhi River–Tributary to Salmon River	complete	1993	1993	Private Landowner, BPA, IDFG Screen Shop, LSWCD, NRCS, USBWP	Idaho Fish & Game Screen Shop/LSWCD	Hydrology–Low Flows, Discharge; Channel Structure–Fish Migration Barrier, Fish Migration Delays and Annual Channel Disturbance	Consolidation of flows from L6 into L7. Elimination of L6. Modification of L7.	Future evaluation of travel times using existing PIT tag information.				X						

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Park, Elk and Trap Creek Meadows Grazing Changes	Salmon–Headwaters	complete	1993	1993	Sawtooth National Recreation Area	USDA FS		Goal: discontinue livestock grazing west of Highway 20 including Elk Meadows. Benefit: Habitat restoration Species: CH,SH,BT,CT	Photographs. Habitat condition.	x									
Pass Creek Track Obliteration	Salmon–Headwaters	complete	1993	1993	Sawtooth National Recreation Area	USDA FS		Goal: Close and rehabilitate non-classified track through Fisher Creek at mouth of Pass Creek to reduce the effects and curtail further degradation. Benefit: Habitat restoration Species: BT,CT	Photographs.	x									
Regional Habitat Education Support (9301100).			1993	1996	University of Washington, Utah State University, Multnomah Education Service Dist., Curtis Consulting			Develop materials for public awareness and involvement in fish and wildlife habitat protection and restoration. A wide variety of activities and contracts with various groups were covered by this project umbrella.	Initiated the Federal Environmental Educators Consortium. Organized the first Pacific Northwest Regional Environmental Education meeting. Supported both the Environmental Education Association of Oregon and the Environmental Education Association of Washington. Presented over 80 talks to schools on BPA's Fish and Wildlife Program. Initiated the Citizens Stream Monitoring Program. Education project programmatically encompasses environmental education from childhood through adult. The project spans the BPA service area with an array of subprograms ranging from speaking engagements, video loans, stream walks, and curricula, to collecting field data, producing reports and participating in regional, national and global computer networks	X	X	X	X	X	X	X	X	X	X
South Fork Salmon River Anadromous Fish Enhancement (9303300)			1993	1995	USFS–Region 4			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		

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Sockeye Beach Fence and Closure	Salmon–Headwaters	complete	1993	1993	Sawtooth National Recreation Area	USDA FS		Goal: Control access to Sockeye Beach and implement rehabilitation objectives above primary sockeye spawning area. Benefit: Habitat maintenance Species: SK,CH,SH,BT,CT	Photographs.	x									
	Boulder Creek Watershed		1993	1998	USFS (PNF)	USFS (PNF)		13.2 miles of road obliteration; 6.7 miles of road closure											X
	see Faurot and Burns 1999		1993	1999	USFS (PNF)	USFS (PNF)		34 acres mine reclamation	see Payette NF Watershed Monitoring reports (Dave Kennell)								X		
	Hard Ck–Hazard Ck Watershed		1993	2000	USFS (PNF)	USFS (PNF)		2.3 miles of road closure; 4.8 miles of road obliteration											X
	Craig Mountain WMA		1993	ongoing	IDFG	BPA mitigation trust fund/IDFG		vegetation monitoring	5 year cycle, annual reports									X	
	Craig Mountain WMA		1993	ongoing	IDFG	BPA mitigation trust fund/IDFG		Grass planting, food plots, irrigation improvements for upland birds and mule deer	annual reports									X	
	Johnson Creek–McClure & Burntlog Trailhead		1993		Boise NF; Cascade RD	USFS		Closure and relocation	photos								X		
	Johnson Creek-SFSR- miles 1-12		1993		Boise NF; Cascade RD	USFS		road ditchline armoring and road re-surfacing for sediment abatement and direct runoff to streams	Reduction off ditchline downcutting; reduction of road surface ravel directly to streams adjacent.								X		
	Road closures in Upper SFSR		1993		Boise NF; Cascade RD	USFS		Road Obliteration/closures									X		
	Upper SFSF–Rice Creek Stock Driveway Rehabilitation		1993		Boise NF; Cascade RD	USFS		Rework trailhead area									X		
	Upper SFSR–Dollar Creek #495 spurs		1993		Boise NF; Cascade RD	USFS		Road Closure									X		

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	Upper SFSR–Kline Mountain Road Project, Road #474 Slope stabilization		1993		Boise NF; Cascade RD	USFS		Treat road cut and fill slopes	Photos, reduction of continuous ravel from cut/fill slopes on 474 road through stabilization and revegetation								X		
	Upper SFSR–Molly Hotspring		1993		Boise NF; Cascade RD	USFS		Rehab trail and site	photos								X		
	Upper SFSR–NF Dollar Creek Road # 495		1993		Boise NF; Cascade RD	USFS		Road Obliteration									X		
	Upper SFSR–Vulcan Hot Springs Trailhead		1993		Boise NF; Cascade RD	USFS		Rework trailhead area	photos								X		
Big Boulder Blowout Restoration	Salmon–Headwaters	complete	1994	1996	Shoshone Bannock Tribes and Sawtooth National Recreation Area	Bonneville Power		Goal: Repair and restore extensively damaged segment of Big Boulder Creek. Benefit: Habitat restoration Species: CH,SH,BT,CT	Before/after photographs. Slow response and recovery to treatments.	x									
Blechman C&H Salmon R Fence	Salmon–Headwaters	complete	1994	1994	Sawtooth National Recreation Area	Bonneville Power		Goal: Construct 1 ½ mile of riparian fence along the Salmon River to preclude livestock access. Benefit: Habitat maintenance Species: SK,CH,SH,BT,CT	Inspection notes. UTM 4874999 N, 673044 E	x									
Carmen Creek, Salmon River, Carmen/Big Flat Siphon (USBWP # 1994001)	Carmen Creek–Tributary to Salmon River	complete	1994	1994	Big Flat Ditch Co., USFS, NRCS, USBWP	US Forest Service, BPA	Hydrology-Low Flows, Obstructed Fish Passage	Construction of an inverted siphon on Big Flat Ditch to route ditch under Carmen Creek so water could seasonally reconnect to Salmon River.	Photo Reference Points			X							
Castle Divide Trail Realignment	Salmon–Headwaters	complete	1994	1994	Sawtooth National Recreation Area	USDA FS		Goal: relocate several deteriorating segments of the trail, many in or adjacent to headwater tributaries. Enhance trail drainage throughout. Benefit: Habitat and watershed restoration Species: CH,SH,BT,CT	Photographs. UTM 4879027 N, 694763 E	x									

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East Fork Salmon River Diversion Enhancement, Baker/Ingram (USBWP # 1994005)	East Fork–Tributary to Salmon River	complete	1994	1994	Private Landowner, BPA, CSWCD, NRCS	BPA/Custer Soil and Water Conservation District				X									
East Fork Salmon River Riparian Enhancement	Salmon River terrace near East Fork Salmon River	complete	1994	1994	BLM–Challis Field Office	Federal	Channel Structure–Fish Migration Delays and Annual Channel Disturbance	0.2 mile of fence along river terrace to exclude livestock; improvements in riparian vegetation and reduction of sediment inputs to the Salmon River.	Photo point. Inspected and maintained annually.	X									
East Fork Salmon River Tributary Riparian Enhancement (Chicken Creek)	Chicken Creek, tributary to Road Creek in the East Fork Salmon River.	complete	1994	194	BLM–Challis Field Office	Federal	Channel structure, sediment, temperature, nutrients and riparian forest.	1.5 miles of fence to exclude livestock from Road Creek; improvements in riparian vegetation and reduction in sediment inputs to fish bearing stream.	Photo point. Inspected and maintained annually.	X									
East Fork Salmon River Tributary Riparian Enhancement (Horse Basin Creek)	Horse Basin Creek, tributary to Road Creek in the East Fork Salmon River.	complete	1994	1994	BLM–Challis Field Office	Federal	Channel structure, sediment, temperature, nutrients and riparian forest.	0.6 mile of fence to expand existing riparian exclosure and exclude livestock from Horse Basin Creek at Anderson Ranch; improvements in riparian vegetation and reduction in sediment inputs to fish bearing stream.	Photo point. Inspected and maintained annually.	X									
East Fork Salmon River Tributary Riparian Enhancement (Mosquito Creek)	Mosquito Creek, tributary to Road Creek in the East Fork Salmon River.	complete	1994	1994	BLM–Challis Field Office	Federal	Channel structure, sediment, temperature, nutrients and riparian forest.	0.8 mile of fence to exclude livestock from Road Creek; improvements in riparian vegetation and reduction in sediment inputs to fish bearing stream.	Photo point. Inspected and maintained annually.	X									
Hayden Creek, Lemhi River Diversion Elimination and Enhancement, 4/6/7 (USBWP # 1994003)	Hayden Creek–Tributary to Lemhi River	complete	1994	1994	Private Landowner, BPA, LSWCD, NRCS, USBWP	BPA/Lemhi Soil and Water Conservation District	Channel Structure–Fish Migration Delays and Annual Channel Disturbance	Consolidation of flows from LHC 4 and LHC 6 into LHC 7. Elimination of diversion LHC 4 and LHC 6. Modification of LHC 7.	Implementation monitoring.				X						

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Hayden Creek, Lemhi River Diversion Elimination and Enhancement, 8a/8b (USBWP # 1994002)	Hayden Creek–Tributary to Lemhi River	complete	1994	1994	Private Landowner, BPA, LSWCD, NRCS, USBWP, IDFG	IDFG/Lemhi Soil and Water Conservation District	Channel Structure–Fish Migration Delays and Annual Channel Disturbance	Consolidation of flows from LHC 8a into LHC 8b. Elimination of diversion LHC 8a. Modification of LHC 8b.	Implementation monitoring.				X						
Haynes Creek, Lemhi River Riparian Enhancement	Haynes Creek–Tributary to the Lemhi River.	ongoing	1994	ongoing	BLM–Salmon Field Office	Federal	Channel structure, sediment, temperature, nutrients and riparian forest.	Riparian habitat improvement by adjusting frequency/duration of grazing–2.0 miles of stream.	Bank stability monitoring, photo points, stream habitat comparison				X						
Idaho Anadromous Fish Screening Program (BPA Project #1994-015-00)	All anadromous HUCs	ongoing	1994	ongoing	IDFG	BPA/NOAA Fisheries	Fish entrainment into irrigation systems	Replaced 15 fish screens, eliminated 1 fish screens, installed 2 new drum screen, installed 1 plate screen, eliminated 1 diversion dam, installed 2 headgates, and demolition of 11 old fish screens.	Screen tenders maintain screens on a daily basis to assure proper functioning condition, duties include; observations of fish behavior and salvaging fish during irrigation shutdowns.	X	X	X	X	X	X	X	X	X	X
Kenney Creek, Lemhi River Riparian Enhancement 1	Kenney Creek–Tributary to the Lemhi River.	ongoing	1994	ongoing	BLM–Salmon Field Office	Federal	Channel structure, sediment, temperature, nutrients and riparian forest.	Riparian habitat improvement by adjusting frequency/duration of grazing–3.0 miles of stream.	Bank stability monitoring, photo points, stream habitat comparison				X						
Lemhi River Diversion Elimination and Enhancement, L23/L22a (USBWP # 1994004)	Lemhi River–Tributary to Salmon River	complete	1994	1994	Private Landowner, IDFG Screen Shop, NRCS, LSWCD, USBWP	Idaho Fish & Game Screen Shop/LSWCD	Channel Structure–Fish Migration Delays and Annual Channel Disturbance	Consolidation of flows from L22a into L23. Elimination of diversion L22a. Modification of L23.	Future evaluation of travel times using existing PIT tag information. Implementation monitoring.				X						
Lemhi River Tributary riparian enhancement (McDevitt Creek)	McDevitt Creek–Tributary to the Lemhi River.	ongoing	1994	ongoing	BLM–Salmon Field Office	Federal	Channel structure, sediment, temperature, nutrients and riparian forest.	Riparian habitat improvement by adjusting frequency/duration of grazing–8.0 miles of stream.	Bank stability monitoring, photo points, stream habitat comparison				X						

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Lemhi River Tributary riparian enhancement (Mill Creek)	Mill Creek–Tributary to the Lemhi River.	ongoing	1994	ongoing	Salmon Challis NF, Leadore RD.	Federal	Channel structure, sediment, temperature, nutrients and riparian forest.	Riparian habitat improvement by adjusting frequency/duration of grazing–8.0 miles of stream	Bank stability monitoring, photo points, stream habitat comparison				X						
Lemhi River Tributary riparian enhancement (Timber Creek)	Timber Creek–Tributary to the Lemhi River.	ongoing	1994	ongoing	Salmon Challis NF, Leadore RD/BLM–Salmon Field Office	Federal	Channel Structure–Fish Migration Delays and Annual Channel Disturbance	Riparian habitat improvement by adjusting frequency/duration of grazing–42.0 miles of stream	Bank stability monitoring, photo points, stream habitat comparison				X						
Salmon River riparian enhancement	Salmon River near Wood Point	complete	1994	1994	BLM–Challis Field Office	Federal	Channel structure, sediment, temperature, nutrients and riparian forest.	0.5 mile of fence at Wood Point to exclude livestock from the Salmon River; improvements in riparian vegetation and reduction of sediment inputs to the Salmon River.	Photo point. Inspected and maintained annually.	X									
Salmon River Tributary riparian enhancement (Alkali Flat)	Salmon River at Alkali Flat	complete	1994	1994	BLM–Challis Field Office	Federal	Channel structure, sediment, temperature, nutrients and riparian forest.	0.2 mile of fence at Alkali Flat to exclude livestock from the Salmon River; improvements in riparian vegetation and reduction of sediment inputs to the Salmon River.	Photo point. Inspected and maintained annually.	X									
Salmon River Tributary riparian enhancement (Birch Creek)	Salmon River near Birch Creek	complete	1994	1994	BLM–Challis Field Office	Federal	Channel structure, sediment, temperature, nutrients and riparian forest.	0.1 mile of fence at Birch Creek to exclude livestock from the Salmon River; improvements in riparian vegetation and reduction of sediment inputs to the Salmon River.	Photo point. Inspected and maintained annually.	X									
Salmon River Tributary riparian enhancement (Moose Creek)	Moose Creek–Tributary to the Salmon River	complete	1994	1994	Salmon Challis NF, Salmon Cobalt RD	Federal	Channel structure, sediment, temperature, nutrients and riparian forest.	Construction of two exclosures–total length approximately 1.5 miles	Sediment monitoring			X							

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Salmon River Tributary riparian enhancement (Split Hoof)	Salmon River at Split Hoof	complete	1994	1994	BLM–Challis Field Office	Federal	Channel structure, sediment, temperature, nutrients and riparian forest.	1.3 miles of fence at Split Hoof to exclude livestock from the Salmon River; improvements in riparian vegetation and reduction of sediment inputs to the Salmon River.	Photo point. Inspected and maintained annually.	X									
Sawtooth Valley C&H Salmon R Fence	Salmon–Headwaters	complete	1994	1994	Sawtooth National Recreation Area	Bonneville Power		Goal: Construct 2 ¼ mile of riparian fence along the Salmon River to preclude livestock access. Benefit: Habitat maintenance Species: CH,SH,BT,CT	Inspection notes.	x									
Stanley Basin C&H Salmon R Fence	Salmon–Headwaters	complete	1994	1994	Sawtooth National Recreation Area	Bonneville Power		Goal: Construct 1 mile of riparian fence along Highway 75 and the Salmon River to preclude livestock access. Benefit: Habitat maintenance Species: SK,CH,SH,BT,CT	Inspection notes. UTM 4871357 N, 675812 E	x									
Stanley Basin C&H Valley Creek Fence	Salmon–Headwaters	complete	1994	1994	Sawtooth National Recreation Area	Bonneville Power		Goal: Construct 1 ½ mile of riparian fence along the Valley Creek to preclude livestock access. Benefit: Habitat maintenance Species: CH,SH,BT,CT	Inspection notes. UTM 4908371 N, 655220 E	x									
Stewart Wetland Restoration	Salmon–Headwaters	complete	1994	1996	Sawtooth National Recreation Area	USDA FS		Goal: Purchase and restore wetland source for a Williams Creek tributary formerly drained with a network of ditches. Benefit: Habitat restoration Species: terrestrial. SK, CH,SH,BT,CT downstream	Photographs. Vegetation species and condition reestablished. Report on file.	x									
	Meadow Creek, Cinnabar Mine		1994	1999	USFS (PNF)	USFS (PNF)		105 acres CERCLA actions	see Payette NF Watershed Monitoring reports (Dave Kennell)								X		
	Trail Creek watershed		1994	ongoing	BLM (CFO), USFS (PNF), & BCC	BLM		Implemented a coop. watershed plan with BLM, FS, and Boise Cascade Corp. for lands in Trail Creek drainage. Reduced active erosion from existing roads and implemented road closures.	Reduce active erosion from existing roads in the watershed. Significant reduction of road related erosion and sediment.										X

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	Johnson Creek–Burntlog Road spurs # 448, 447T		1994		Boise NF; Cascade RD	USFS		Spur Road Obliteration	Photos, Reduction of road densities in headwaters of Burntlog drainage								X		
	Johnson Creek–Sand Creek Allotment revision		1994		Boise NF; Cascade RD	USFS		Revise Allotment Plan									X		
	Upper SfSR–Curtis Creek Road Spurs #409I, #409J		1994		Boise NF; Cascade RD	USFS		Spur Road Obliteration	Photos, Reduction of road densities in headwaters of Curtis Creek drainage								X		
Forest road obliteration to return to natural state	Various areas on Forest.	complete	1995	1995	Salmon Challis NF, Salmon Cobalt RD	Federal	Sediment delivery to receiving stream	1.6 miles of road obliteration for wildlife security			X								
Forest road obliteration to return to natural state	Various areas on Forest.	complete	1995	1995	Salmon Challis NF, Yankee Fork RD	Federal	Sediment delivery to receiving stream	2.0 miles of road obliteration for wildlife security		X									
Forest road reconstruction to return to natural state	West Fork Morgan Creek, tributary to Morgan Creek and the Salmon River	complete	1995	1995	BLM–Challis Field Office	Federal	Sediment delivery to receiving stream	Replacement of eroding bridge to reduce channel instability and sediment inputs to fish bearing stream	Photo point. Bridge is inspected annually.	X									
Hawley Creek, Lemhi River Riparian Enhancement 1	Hawley Creek–Tributary to the Lemhi River.	complete	1995	1995	BLM–Salmon Field Office	Federal	Channel Structure–Fish Migration Delays and Annual Channel Disturbance	Riparian exclosure fence–2.0 miles of stream.	Bank stability monitoring, photo points, stream habitat comparison				X						
Idaho Anadromous Fish Screening Program (BPA Project #1994-015-00)	All anadromous HUCs	ongoing	1995	ongoing	IDFG	BPA/NOAA Fisheries	Fish entrainment into irrigation systems	Replaced 29 fish screens, eliminated 7 fish screens, installed 2 new drum screens, installed 4 modular screens, improved 1 and eliminated 5 diversion dams, installed 10 headgates, and demolition of 38 old fish screens.	Screen tenders maintain screens on a daily basis to assure proper functioning condition, duties include; observations of fish behavior and salvaging fish during irrigation shutdowns.	X	X	X	X	X	X	X	X	X	X

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										UPS	PAH	MSP	LE	MF	MF	MS	SFS	LOS	LSA
Kenney Creek, Lemhi River Riparian Enhancement 2	Kenney Creek–Tributary to the Lemhi River.	complete	1995	1995	BLM–Salmon Field Office	Federal	Channel Structure–Fish Migration Delays and Annual Channel Disturbance	Riparian exclosure fence–3.0 miles of stream.	Bank stability monitoring, photo points, stream habitat comparison				X						
Lemhi River Diversion Elimination and Enhancement, L48/L49 (USBWP # 1995001)	Lemhi River–Tributary to Salmon River	complete	1995	1995	Private Landowner, IDFG Screen Shop, NRCS, LSWCD, USBWP	Idaho Fish and Game Department/ LSWCD	Channel Structure–Fish Migration Delays and Annual Channel Disturbance	Consolidation of flows from L48 into L49. Elimination of diversion L48. Modification of L49.	Future evaluation of travel times using existing PIT tag information. Implementation monitoring.				X						
Lemhi River Diversion Elimination and Enhancement, L6/L7/7a (USBWP # 1995004)	Lemhi River–Tributary to Salmon River	complete	1995	1995	BOR, WD 74 and LID, FSA/NRCS, Private Landowner, IDFG, LSWCD, USBWP	Bureau of Reclamation/ LSWCD	Hydrology–Low Flows, Discharge, Obstructed Fish Passage; Channel Structure–Fish Migration Delays and Annual Channel Disturbance	Consolidation of flows from L7a into L7. Elimination of L7a diversion. Installation of a variable crest dam at L6 and L7. Reconstruct of fish screens. Some land shaping at L7a. Fish ladders were constructed to allow fish to pass at low flows.	Photo Reference Points. Future evaluation of travel times using existing PIT tag information. Implementation monitoring.				X						
Lemhi River Diversion Elimination, L4 (USBWP # 1995003)	Lemhi River–Tributary to Salmon River	complete	1995	1995	BOR, Private Landowner, Lemhi Soil and Water Conservation District	Bureau of Reclamation	Hydrology–Low Flows, Discharge, Obstructed Fish Passage; Channel Structure–Fish Migration Delays and Annual Channel Disturbance	Irrigation diversion was eliminated by replacing the flood irrigation system with a more efficient sprinkler system. Net water savings estimated at 1000 acre feet.	Photo Reference Points. Future evaluation of travel times using existing PIT tag information.				X						

Project Name (BPA contract #)	Subbasin/ Location	Status	Begin Year	End Year	Implementing/ Principal Agency	Funding/ Sponsor	Cause of Limiting Factors	Project Description	Comments/ Results/ Monitoring	Geographic area of coverage									
										UPS	PAH	MSP	LE	MF	MF	MS	SFS	LOS	LSA
Lemhi River Diversion Elimination, L5 and Side Channel Rearing Enhancement (USBWP # 1995002)	Lemhi River–Tributary to Salmon River	complete	1995	1995	BOR, Private Landowner, Nature Conservancy, Lemhi Soil and Water Conservation District	Bureau of Reclamation/ LSWCD	Hydrology–Low Flows, Discharge, Obstructed Fish Passage; Channel Structure–Fish Migration Delays and Annual Channel Disturbance	Irrigation diversion was eliminated through the assistance of the Nature Conservancy. 800 feet of irrigation channel modified into side channel rearing habitat. Net water savings estimated at 600 acre feet.	Photo Reference Points. Future evaluation of travel times using existing PIT tag information. Implementation monitoring.				X						
Pahsimeroi River Flow Enhancement, Parkinson (USBWP # 1996004)	Pahsimeroi River–Tributary to Salmon River	complete	1995	1996	BPA, CSWCD, NRCS, IDFG, Private Landowner, USBWP	BPA/Custer Soil and Water Conservation District	Hydrology–Low Flows, Discharge; Channel Structure–Fish Migration Barrier, Fish Migration Delays and Annual Channel Disturbance	Access was to be restored to 2.1 miles in the Pahsimeroi and 5.7 miles in Patterson/Big Springs Creek for anadromous and resident fish. The irrigation system was modified so that 6 cfs will not be diverted from the river. This project is connected to P9.	IDFG fisheries monitoring, future comparison to baseline habitat inventory, photo points.	X								
Pettit Fish Barrier Breech	Salmon–Headwaters	complete	1995	1996	Shoshone Bannock Tribes	Bonneville Power		Goal: Modify former IDFG fish barrier to facilitate fish passage. Benefit: Passage restoration Species: SK,CH,SH,BT,CT	Special use permit issued by USFS, Photographs.	x								
Road Reconstruction on Panther Creek Tributary to reduce sediment delivery	Porphyry Creek–Tributary to Panther Creek	complete	1995	1995	Salmon Challis NF, Salmon Cobalt RD	Federal	Sediment delivery to receiving stream	Road Reconstruction–raised road around several beaver dam complexes	Sediment monitoring			X							

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Salmon River Diversion Elimination, Carmen/Beller (USBWP # 1995005)	Salmon River	complete	1995	1995	Private Landowner, BPA, LSWCD, NRCS, USBWP	BPA/Lemhi Soil and Water Conservation District	Hydrology–Low Flows, Discharge; Channel Structure–Fish Migration Barrier, Fish Migration Delays and Annual Channel Disturbance	Change in the point of diversion from Carmen Creek to big flat ditch. Eliminates diversion in Carmen Creek.	Photo points. Implementation Monitoring.			X							
Salmon River riparian enhancement	Salmon River near Cottonwood Campground	complete	1995	1995	BLM–Challis Field Office	Federal	Channel structure, sediment, temperature, nutrients and riparian forest.	Riparian fence to exclude livestock from 1/4 mile of the Salmon River	Photo point. Inspected and maintained annually.	X									
Salmon River Tributary Fish Passage Improvement (Carmen Creek)	Carmen Creek–Tributary to Salmon River	complete	1995	1995	USFS, BPA, USBWP	US Forest Service	Fish passage	Change in the point of diversion from Carmen Creek to Big Flat Ditch.	Photo Reference Points.			X							
Salmon River Tributary riparian enhancement (7 Mile Creek)	7 Mile Creek–Tributary to the Salmon River.	complete	1995	1995	BLM–Salmon Field Office	Federal	Channel Structure–Fish Migration Delays and Annual Channel Disturbance	Riparian exclosure fence–2.0 miles of stream.	Bank stability monitoring, photo points, stream habitat comparison			X							
Salmon River Tributary riparian enhancement (Hat Creek)	Hat Creek–Tributary to the Salmon River.	complete	1995	1995	BLM–Salmon Field Office	Federal	Channel Structure–Fish Migration Delays and Annual Channel Disturbance	Riparian exclosure fence–2.0 miles of stream.	Bank stability monitoring, photo points, stream habitat comparison			X							

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Salmon River Tributary riparian enhancement (Hat Creek)	Hat Creek–Tributary to the Salmon River	complete	1995	2000	Salmon Challis NF, Salmon Cobalt RD	Federal	Channel structure, sediment, temperature, nutrients and riparian forest.	Construction of two ¼ long exclosure fences along M. Fk. Hat Cr and Big Hat Cr.	Sediment monitoring			X							
Salmon River Tributary riparian enhancement (Morgan Creek)	Morgan Creek, tributary to Salmon River	complete	1995	1995	BLM–Challis Field Office	Federal	Channel structure, sediment, temperature, nutrients and riparian forest.	Drift fence to exclude livestock from Morgan Creek near BLM campground	Photo point. Inspected and maintained annually.	X									
Sawtooth Valley Ditches Rehabilitation	Salmon–Headwaters	complete	1995	1995	Sawtooth National Recreation Area	USDA FS		Goal: Fill and rehabilitate four miles of large supply and drainage ditches of the former Busterback Ranch. Reconnect formerly severed backwater channel. Benefit: Habitat restoration Species: SK,CH,SH,BT,CT	Before/after photographs. Report on file.										
Upper Lemhi Riparian Enhancement Project, Beyeler 1 (USBWP # 1995006)	Lemhi River–Tributary to Salmon River	complete	1995	1995	Private Landowner, LSWCD, BLM, IDFG, NRCS, USFS, Shoshone-Bannock Tribes, USBWP	Idaho Fish & Game Screen Shop/LSWCD	Riparian Forest–Production of food and organisms and organic matter, shading, vegetative rooting systems and streambank integrity, and nutrient modification	A riparian pasture fence was constructed around spawning habitat on the upper Lemhi R. This put 279 acres under management. Willow and cottonwoods were planted in 1996. 1.4 miles of stream was treated.	IDFG fisheries monitoring, willow survival monitoring, photo reference points, future comparison to baseline habitat in inventory.				X						
	Little Salmon River face drainages, Denny Creek, and Hat Creek		1995	1999	BLM (CFO)	BLM		Rehabilitate actively eroding slopes, replace undersize culverts, improve drainage, and reduce road related erosion and sediment from 4 miles of road.	Reduce active erosion and reduce potential for catastrophic road failures and sediment delivery to Denny Creek, Hat Creek, and Little Salmon River. Post project monitoring identified significant reduction in erosion and sediment, culverts handling discharge, and stabilization of slopes and gullies.										X

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	see Faurot and Burns 1999		1995	2000	USFS (PNF)	USFS (PNF)		200 acres watershed/fish habitat improvement projects	see Payette NF Watershed Monitoring reports (Dave Kennell)								X		
	SFSR Trail Bridge at Vulcan Hot Springs		1995		Boise NF; Cascade RD	USFS		Install 2 trail bridges across salmon spawning habitat. Installed vault toilet at trailhead.	Replacement of trail fords with trail bridges at trail crossings of SFSR near Stolle Meadows in chinook spawning habitat								X		
	Thunderbolt Wildfire Burn Area Emergency Rehabilitation (BAER) Upper SFSR and Johnson Creek drainages		1995		Boise NF; Cascade RD	USFS		Road repair; Aerial seeding; Contour felling- slope stabilization;	Reduction of wildfire caused erosion by felling dead trees on contour, and aerial native/near native grass re-seeding of hot burn areas								X		
	Upper SFSR & Johnson Creek– Thunderbolt Project, Road # 410, #401, 474E		1995		Boise NF; Cascade RD	USFS		Road Obliteration	Monitoring complete								X		
	SFSR- Near Warm Lake on #674 Road north to Penny Springs		1995		Boise NF; Cascade; Payette NF; Krassel	USFS		South Fork Road Project, 17 acres (approximately 5 road miles) of SFSR (474/674) road obliterated from Warm Lake Hwy to Penny Springs.	Reduction of direct sediment entry from 474 road into SFSR spawning and rearing habitat.								X		
East Fork Salmon River Diversion Elimination and Enhancement, EF7/EF8 (USBWP # 1996015)	East Fork– Tributary to Salmon River	complete	1996	1996	Private Landowner, BPA, CSWCD, NRCS, USBWP, IDFG Screen Shop	BPA/Custer Soil and Water Conservation District	Hydrology– Low Flows, Discharge, Obstructed Fish Passage; Channel Structure– Fish Migration Delays and Annual Channel Disturbance	Consolidation of flows from EF7 into EF8. Diversion EF7 eliminated. A permanent instream diversion was constructed at EF8 to minimize annual eminence and improve fish passage.	Photo Reference Points. Future evaluation of travel times using existing PIT tag information. Implementation monitoring.	X									

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East Fork Salmon River Diversion Enhancement, Sherwood (USBWP # 1996017)	East Fork–Tributary to Salmon River	complete	1996	1996						X									
East Fork Salmon River Diversion Enhancement, Sherwood (USBWP # 1996018)	East Fork–Tributary to Salmon River	complete	1996	1996	Private Landowner, BPA, CSWCD, NRCS	BPA/Custer Soil and Water Conservation District				X									
East Fork Salmon River Erosion Control, Baker 3 (USBWP # 1996019)	East Fork–Tributary to Salmon River	complete	1996	1996	Private Landowner, BPA, CSWCD, NRCS	BPA/Custer Soil and Water Conservation District				X									
East Fork Salmon/ Pahsimeroi Habitat Enhancement (9401702)	East Fork Salmon River	complete	1996	1997	Private Landowner, BPA, CSWCD, NRCS, USBWP	BPA/Custer Soil and Water Conservation District		Ingram fencing project on the East Fork of the Salmon River.	Protection of 1.3 miles of the river. As the riparian zone recovers, more shade will be created thus lowering stream temperatures. Eventually there will be input of large woody debris.			X							
Idaho Anadromous Fish Screening Program (BPA Project #1994-015-00)	All anadromous HUCs	ongoing	1996	ongoing	IDFG	BPA/NOAA Fisheries	Fish entrainment into irrigation systems	Replaced 27 fish screens, eliminated 10 fish screens, installed 2 new drum screens, installed 2 modular screens, installed 3 plate screens, installed 2 step-up pools, eliminated 6 diversion dams, installed 4 self-cleaning pump screens, installed 13 headgates, demolition of 19 old fish screens, and installed 4 safety fences.	Screen tenders maintain screens on a daily basis to assure proper functioning condition, duties include; observations of fish behavior and salvaging fish during irrigation shutdowns.	X	X	X	X	X	X	X	X	X	X
Lemhi Cow Creek Passage Enhancement	Cow Creek–Tributary to Agency Creek/Lemhi River.	ongoing	1996	2003	BLM–Salmon Field Office	Federal	Channel Structure–Fish Migration Delays and/or Barriers	Replaced four culverts to improve fish passage.	Implementation Monitoring and Adaptive Management.				X						

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Lemhi Riparian Enhancement Project, Neibaur Riparian Pasture (USBWP # 1996007)	Lemhi River– Tributary to Salmon River	complete	1996	1996	Private Landowner, BPA, LSWCD, NRCS, USBWP, BLM	BPA/Lemhi Soil and Water Conservation District	Riparian Forest– Production of food and organisms and organic matter, shading, vegetative rooting systems and streambank integrity, and nutrient modification	A combination of electric and jack fence was constructed on 490 acres of pasture create 6 grazing units including riparian pastures along spawning habitat along upper Lemhi R. 3 miles of stream were treated.	IDFG fisheries monitoring, photo reference points, future comparison to baseline habitat inventory.				X						
Lemhi Riparian Enhancement Project, Thomas Riparian Pasture (USBWP # 1996008)	Lemhi River– Tributary to Salmon River	complete	1996	1996	Private Landowner, BPA, LSWCD, NRCS, USBWP, IDFG, BLM	BPA/Lemhi Soil and Water Conservation District	Riparian Forest– Production of food and organisms and organic matter, shading, vegetative rooting systems and streambank integrity, and nutrient modification	Electric fence was installed on 315 acres of pasture to establish 5 grazing units to manage grazing along critical anadromous spawning and rearing habitat on the upper Lemhi R. 1 mile of stream was treated.	IDFG fisheries monitoring, photo reference points, future comparison to baseline habitat inventory. Additional management needed in future.				X						
Lemhi River Diversion Elimination and Enhancement, L36/L37 (USBWP # 1996016)	Lemhi River– Tributary to Salmon River	complete	1996	1996	Private Landowner, IDFG Screen Shop, NRCS, LSWCD, USBWP	Idaho Fish and Game Department/ LSWCD	Hydrology– Low Flows, Discharge; Channel Structure– Fish Migration Delays and Annual Channel Disturbance	Consolidation of flows from L36 into L37. Elimination of diversion L36. Modification of diversion L37.	Future evaluation of travel times using existing PIT tag information. Implementation monitoring.				X						

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										UPS	PAH	MSP	LE	MF	MF	MS	SFS	LOS	LSA
Lemhi River Diversion Elimination and Enhancement, L46/L46a (USBWP # 1996010)	Lemhi River–Tributary to Salmon River	complete	1996	1996	Private Landowner, IDFG Screen Shop, NRCS, LSWCD, USBWP	Idaho Fish & Game Screen Shop/LSWCD	Hydrology–Low Flows, Discharge; Channel Structure–Fish Migration Delays and Annual Channel Disturbance	Consolidation of flows from L46 into L46a. Elimination of diversion L46. Modification of diversion L46a.	Future evaluation of travel times using existing PIT tag information. Implementation monitoring.				X						
Lemhi River Diversion Elimination and Enhancement, L53/L57 (USBWP # 1996017)	Lemhi River–Tributary to Salmon River	complete	1996	1996	Private Landowner, BPA, LSWCD, NRCS, USBWP	BPA/Lemhi Soil and Water Conservation District	Hydrology–Low Flows, Discharge; Channel Structure–Fish Migration Barrier, Fish Migration Delays and Annual Channel Disturbance	Consolidation of flows from diversion L53 into L57. Elimination of L53. Modification of L57.	Photo points. Implementation Monitoring.				X						
Lemhi River Diversion Enhancement, L3a 1 (USBWP # 1996003)	Lemhi River–Tributary to Salmon River	complete	1996	1996	Private Landowner, BPA, LSWCD, NRCS, USBWP, IDFG, BOR	BPA/Lemhi Soil and Water Conservation District	Hydrology–Low Flows, Discharge, Obstructed Fish Passage; Channel Structure–Fish Migration Delays and Annual Channel Disturbance	Water conservation demonstration project. Canal and diversion modification.	Photo Reference Points. Implementation monitoring resulting in modifications.				X						
Lemhi River Tributary riparian enhancement (McDevitt Creek)	McDevitt Creek–Tributary to the Lemhi River.	complete	1996	1999	BLM–Salmon Field Office	Federal	Channel structure, sediment, temperature, nutrients and riparian forest.	Riparian exclosure fence–3.0 miles of stream.	Bank stability monitoring, photo points, stream habitat comparison				X						

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Lower East Fork Salmon River Riparian Enhancement Project, Ingram 1 (USBWP # 1996006)	East Fork–Tributary to Salmon River	complete	1996	1996	Private Landowner, BPA, CSWCD, SBT, NRCS, USBWP	BPA/Custer Soil and Water Conservation District	Riparian Forest–Production of food and organisms and organic matter, shading, vegetative rooting systems and streambank integrity, and nutrient modification	Jack and barbed wire fence was built to enhance riparian vegetation and reduce sediment along an anadromous spawning, rearing, and migration corridor on the EFSR by excluding livestock. 0.84 miles of stream was treated.	Photo Reference Points, future comparison to baseline habitat inventory.	X									
Manchester Spring Chinook Captive Brood (9606700).			1996	1997	NMFS – Seattle Office			Upgrade the Manchester Marine Experimental Station for rearing of endangered salmonid stocks from smolt to adult in seawater. Stocks include: Grande Ronde, Catherine Cr, & Lostine River in OR and Lemhi, East Fork Salmon, & West Fork Yankee Fork in ID.	In August 1996 NMFS began this BPA funded project rearing Snake River spring/summer chinook salmon captive broodstock in seawater at the NMFS Manchester Marine Experimental Station. Two phases were involved: construction of proper facilities and the actual rearing of the fish.	X		X	X						
Nez Perce NF Early Action Watershed Projects (9607700)			1996		Nez Perce Tribe.			Enhanced many streams, including Johnson Creek in the South Fork Salmon watershed. Installed or repaired instream structures and fences. Obliterated unused logging roads.	In Johnson Creek, the project stabilized streambanks, replanted riparian vegetation, and installed fish structures.								X		
Outlet Campground Reconstruction	Salmon–Headwaters	complete	1996	1996	Sawtooth National Recreation Area	USDA FS		Goal: Reconstruct Outlet Campground including the removal of ½ of campsites formerly adjacent to Redfish Lake. Harden sites, and specific travel routes to beach. Install irrigation system. Benefit: Lakeshore restoration Species: SK,CH,SH,BT,CT	Before/after photographs. Vegetation transects. Report on file.	x									

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Pahsimeroi River Diversion Enhancement P9 (USBWP # 1996012)	Pahsimeroi River– Tributary to Salmon River	complete	1996	1996	Private Landowner, BPA, CSWCD, NRCS, USBWP	BPA/Custer Soil and Water Conservation District	Hydrology– Low Flows, Discharge; Channel Structure– Fish Migration Delays and Annual Channel Disturbance	Reconstructed headgate for fish passage and water control. Phase 2: modified headgate for improved fish passage.	Photo Reference Points. Implementation monitoring.		X								
Pahsimeroi River Riparian Enhancement, Brent Cutler Riparian Fence (USBWP # 1996009)	Pahsimeroi River– Tributary to Salmon River	complete	1996	1997	BPA, CSWCD, NRCS, BLM, Private Landowner, USBWP	BPA/Custer Soil and Water Conservation District	Riparian Forest– Production of food and organisms and organic matter, shading, vegetative rooting systems and streambank integrity, and nutrient modification	A jack fence was built to control grazing and enhance riparian vegetation on Patterson/Big Springs Creek along critical spawning and rearing habitat. 1.25 miles of stream were treated.	Challis High School riparian and channel morphology monitoring. IDFG fisheries monitoring.		X								
Pahsimeroi River Riparian Enhancement, Brent Cutler Riparian Fence (USBWP # 1996011)	Pahsimeroi River– Tributary to Salmon River	complete	1996	1997	BPA, CSWCD, NRCS, BLM, Private Landowner, USBWP	BPA/Custer Soil and Water Conservation District	Riparian Forest– Production of food and organisms and organic matter, shading, vegetative rooting systems and streambank integrity, and nutrient modification	A jack fence was built to control grazing and enhance riparian vegetation on Patterson/Big Springs Creek along critical spawning and rearing habitat. 1.25 miles of stream were treated.	Challis High School riparian and channel morphology monitoring. IDFG fisheries monitoring.		X								

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Pahsimeroi River Riparian Enhancement, Chewning Riparian Fence (USBWP # 1996002)	Pahsimeroi River– Tributary to Salmon River	complete	1996	1997	Private Landowner, BPA, CSWCD, SBT, NRCS, USBWP	BPA/Custer Soil and Water Conservation District	Riparian Forest– Production of food and organisms and organic matter, shading, vegetative rooting systems and streambank integrity, and nutrient modification	A jack fence was constructed to exclude grazing and enhance riparian vegetation on the Pahsimeroi River along critical spawning and rearing habitat. Shoshone Bannock tribes Salmon Corps provided the labor. 0.83 miles of stream were treated.	IDFG fisheries monitoring, photo reference points, future comparison to baseline habitat in inventory.		X								
Pahsimeroi River Riparian Enhancement, Coleman Riparian Fence (USBWP # 1996013)	Pahsimeroi River– Tributary to Salmon River	complete	1996	1997	Private Landowner, BPA, CSWCD, SBT, NRCS, USBWP	BPA/Custer Soil and Water Conservation District	Riparian Forest– Production of food and organisms and organic matter, shading, vegetative rooting systems and streambank integrity, and nutrient modification	A jack fence was built to exclude grazing and enhance riparian vegetation on the Pahsimeroi river and slough channel to protect critical spawning and rearing habitat. 1.4 miles of stream was treated.	IDFG fisheries monitoring, future comparison to baseline habitat inventory, photo points.		X								
Pahsimeroi River Riparian Enhancement, Dowton3X Ranch Riparian Fence (USBWP # 1996001)	Pahsimeroi River– Tributary to Salmon River	complete	1996	1997	Private Landowner, BPA, CSWCD, NRCS, USBWP	BPA/Custer Soil and Water Conservation District	Riparian Forest– Production of food and organisms and organic matter, shading, vegetative rooting systems and streambank integrity, and nutrient modification	A jack fence was constructed to exclude grazing and enhance riparian vegetation on the Pahsimeroi River along critical spawning and rearing habitat. 1.1 mile of fence was connected to an existing 3/4 mile pole fence already constructed by rancher.	IDFG fisheries monitoring, future comparison to baseline habitat inventory, photo points.		X								

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Pahsimeroi River Riparian Enhancement, Latimer Riparian Fence (USBWP # 1996014)	Pahsimeroi River–Tributary to Salmon River	complete	1996	1997	Private Landowner, BPA, CSWCD, SBT, NRCS, USBWP	BPA/Custer Soil and Water Conservation District	Riparian Forest–Production of food and organisms and organic matter, shading, vegetative rooting systems and streambank integrity, and nutrient modification	A jack fence was constructed to exclude grazing and enhance riparian vegetation along critical spawning and rearing habitat in the Pahsimeroi River. 0.7 miles of stream were treated.	IDFG fisheries monitoring, photo reference points, future comparison to baseline habitat inventory.		X								
Road Reconstruction on Lemhi River Tributary to reduce sediment delivery (Haynes Creek)	Haynes Creek–Tributary to the Lemhi River.	complete	1996	1999	BLM–Salmon Field Office	Federal	Sediment delivery to receiving stream	Road sediment reduction project–3.0 miles of road repaired.					X						
Road Reconstruction on Lemhi River Tributary to reduce sediment delivery (Pattee Creek)	Pattee Creek–Tributary to the Lemhi River.	complete	1996	1998	BLM–Salmon Field Office	Federal	Sediment delivery to receiving stream	Road sediment reduction project–3.0 miles of road repaired.					X						
Salmon River Diversion Elimination and Enhancement, S32 Phase 1 (USBWP # 1996005)	Salmon River	complete	1996	1996	Private Landowner, BPA, CSWCD, NRCS, USBWP	BPA/Custer Soil and Water Conservation District	Hydrology–Low Flows, Discharge; Channel Structure–Fish Migration Barrier, Fish Migration Delays and Annual Channel Disturbance	Consolidation of flows from S25, S27, and S30 into S32. Elimination of three irrigation ditches by consolidation into Challis irrigation canal to reduce passage delays.	Future evaluation of travel times using existing PIT tag information. Implementation monitoring.			X							

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Salmon River riparian enhancement	Salmon River near Poverty Flat	complete	1996	1996	BLM–Challis Field Office	Federal	Channel structure, sediment, temperature, nutrients and riparian forest.	Installation of Poverty Flat pipelines and fences to eliminate livestock related sediment impacts to the Salmon River	Photo point. Inspected annually.	X									
Salmon River Side Channel Rearing Enhancement and Development (USBWP # 1996009)	Salmon River	complete	1996	1996	USFWS, Private Landowner, LSWCD, USBWP	USFWS/Lemhi Soil and Water Conservation District	Riparian Forest–Production of food and organisms and organic matter, shading, vegetative rooting systems and streambank integrity, and nutrient modification; Channel Structure–Pools and Riffles.	A fence was constructed and trees were planted to exclude grazing and enhance riparian vegetation along a slough channel that is utilized as off channel rearing habitat. 0.5 miles of river was treated.	Photo Reference Points.			X							
Salmon River Tributary riparian enhancement (Morgan Creek)	Morgan Creek, tributary to Salmon River.	complete	1996	1996	BLM–Challis Field Office	Federal	Channel structure, sediment, temperature, nutrients and riparian forest.	1.25 miles of drift fence to exclude livestock grazing from Morgan Creek.	Photo point. Inspected and maintained annually.	X									
Stanley Creek Culvert Barrier Resolution	Salmon–Headwaters	complete	1996	1996	Sawtooth National Recreation Area	USDA FS		Goal: Enlarge culvert and facilitate passage where formerly prevented at perched culvert outlet. Benefit: Passage restoration Species: CH,SH,BT,CT	Before/after photographs. Report on file.	x									
Stanley Creek Historic Channel Restoration	Salmon–Headwaters	complete	1996	1996	Sawtooth National Recreation Area	USDA FS		Goal: Restore full flow to ½ mile of high quality habitat abandoned earlier when captured by entrenched placer dredge channel. Benefit: Habitat restoration Species: CH,SH,BT,CT	Before/after photographs. Report on file.	x									

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	Upper SFSR and Johnson Creek– Thunderbolt Project on #413, 410, 474/674 roads		1996	1997	Boise NF; Cascade RD	USFS		Log grid structures on road cut/fill slopes; windrow and wattle bundle construction along road cut/fill slopes; Hydro-mulch application w/ seed; shrub planting; road obliterations.	Monitoring Complete. Reduction of road sediment movement from wildfire and existing road caused erosion directly into SFSR or Johnson Creek								X		
	Thunderbolt Project, Johnson Creek Road #413		1996		Boise NF; Cascade RD	USFS		Multiple sediment reduction projects, including gravel road and pave bridge approaches	Monitoring complete								X		
Agency Creek, Lemhi River Riparian Enhancement (USBWP # 1997010)	Agency Creek– Tributary to Lemhi River	complete	1997	1997	Private Landowner, IDFG, National Fish and Wildlife Foundation, LSWCD, NRCS, USBWP	Idaho Fish & Game Screen Shop/LSWCD	Riparian Forest– Production of food and organisms and organic matter, shading, vegetative rooting systems and streambank integrity, and nutrient modification; Channel Structure– Pools and Riffles; Sediment– Bank Instability	Bank barbs and bank stabilization work was done. Riparian exclusion fence (electric and wire) was built. Also 3 headgate structures were built to better control water use from Agency Creek. 0.3 miles of stream were treated.	Photo Reference Points.				X						
Alturas Lake Creek Diversion Removal	Salmon– Headwaters	complete	1997	1997	Sawtooth National Recreation Area	USDA FS, Bonneville Power, and Idaho Fish and Game		Goal: convert irrigation source to groundwater. Remove and rehabilitate former ALC1 diversion structures, ditches, and access roads. Benefit: Passage restoration Species: SK,CH,SH,BT,CT	Before/after photographs. Surveyed profile and cross-sections. Report on file.	x									
Cottonwood Recreation Site Habitat Improvements	Salmon River near confluence of Pahsimeroi R.	complete	1997	1997	BLM–Challis Field Office	Federal	Sediment, temperature, nutrients and riparian forest.	Cottonwood Campground Recreation Site Improvements to address sediment, water quality and vegetative concerns along the Salmon River.	Photo points of barb work, riparian plantings.			X							

Project Name (BPA contract #)	Subbasin/ Location	Status	Begin Year	End Year	Implementing/ Principal Agency	Funding/ Sponsor	Cause of Limiting Factors	Project Description	Comments/ Results/ Monitoring	Geographic area of coverage									
										UPS	PAH	MSP	LE	MF	MF	MS	SFS	LOS	LSA
East Fork Salmon River Erosion Control, Hunt (USBWP # 1997017)	East Fork–Tributary to Salmon River	complete	1997	1997	Private Landowner, BPA, CSWCD, NRCS, USBWP	BPA/Custer Soil and Water Conservation District	Sediment–Surface Erosion; Water Quality–Nutrients; Riparian Forest–Production of food and organisms and organic matter, shading, vegetative rooting systems and streambank integrity, and nutrient modification	Rock barbs and riparian ribbon fence to protect 2400 feet of the East Fork Salmon River.	Photo points. Implementation Monitoring.	X									
East Fork Salmon River Riparian Enhancement and Diversion Elimination, Abatti (USBWP # 1997013)	East Fork–Tributary to Salmon River	complete	1997	1998	Private Landowner, BPA, CSWCD, NRCS, USBWP, IDFG Screen Shop	BPA/Custer Soil and Water Conservation District	Riparian Forest–Production of food and organisms and organic matter, shading, vegetative rooting systems and streambank integrity, and nutrient modification	Fencing of 1.2 miles of the East Fork Salmon River and elimination of diversions EF1 and EF2 by converting 308 acres of flood irrigation to a center-pivot irrigation system.	Photo Reference Points, future comparison to baseline habitat inventory.	X									
Elk Meadows Trail Realignment	Salmon–Headwaters	complete	1997	1997	Sawtooth National Recreation Area, and American Hiking Society	USDA FS		Goal: relocate 1 mile of trail and two fords adjacent to Elk Creek to upland location requiring no stream crossings. Rehabilitate the former route. Benefit: Watershed restoration Species: CH,SH,BT,CT	Before/after photographs. UTM 4905295 N, 653852 E	x									
Forest road obliteration to return to natural state	Various areas on Forest.	complete	1997	1997	Salmon Challis NF	Federal	Sediment delivery to receiving stream	11.0 miles of road obliteration for wildlife security		X	X	X	X	X	X				

Project Name (BPA contract #)	Subbasin/ Location	Status	Begin Year	End Year	Implementing/ Principal Agency	Funding/ Sponsor	Cause of Limiting Factors	Project Description	Comments/ Results/ Monitoring	Geographic area of coverage									
										UPS	PAH	MSP	LE	MF	MF	MS	SFS	LOS	LSA
Haynes Creek barrier removal	Haynes Creek–Tributary to the Lemhi River.	complete	1997	1997	BLM–Salmon Field Office	Federal	Fish passage	Replaced culverts to improve fish passage.					X						
Idaho Anadromous Fish Screening Program (BPA Project #1994-015-00)	All anadromous HUCs	ongoing	1997	ongoing	IDFG	BPA/NOAA Fisheries	Fish entrainment into irrigation systems	Replaced 18 fish screens, eliminated 8 fish screens, installed 1 new drum screen, installed 2 infiltration screens, installed 1 modular screen, installed 1 step-up pool, improved 3 diversion dams, eliminated 10 diversion dams, installed 22 passive pump screens, eliminated 4 pump screens, installed 9 headgates, demolition of 12 old fish screens, and installed 8 safety fences.	Screen tenders maintain screens on a daily basis to assure proper functioning condition, duties include; observations of fish behavior and salvaging fish during irrigation shutdowns.	X	X	X	X	X	X	X	X	X	X
Lemhi River Diversion Elimination and Enhancement, Nelson/Stokes (USBWP # 1997012)	Lemhi River–Tributary to Salmon River	complete	1997	1997	Private Landowner, BPA, LSWCD, NRCS, USBWP, IDFG	IDFG/Lemhi Soil and Water Conservation District	Hydrology–Low Flows, Discharge; Channel Structure–Fish Migration Barrier, Fish Migration Delays and Annual Channel Disturbance	Consolidation of flows from L2b and L2c into diversion L3. Elimination of L2b and L2c. Modification of L3.	Future evaluation of travel times using existing PIT tag information. Implementation monitoring.				X						
Lemhi River Diversion Elimination and Modification, L41/L42 (USBWP # 1997007)	Lemhi River–Tributary to Salmon River	complete	1997	1997	Private Landowner, IDFG Screen Shop, BPA, LSWCD, NRCS, USBWP	Idaho Fish and Game Screen Shop/Lemhi Soil and Water Conservation District	Hydrology–Low Flows, Discharge; Channel Structure–Fish Migration Barrier, Fish Migration Delays and Annual Channel Disturbance	Consolidation of flows from diversion L41 into L42. Elimination of L41. Modification of L42.	Photo points. Implementation Monitoring.				X						

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										UPS	PAH	MSP	LE	MF	MF	MS	SFS	LOS	LSA
Lemhi River Riparian Enhancement Project, Amonsen (USBWP # 1997001)	Lemhi River– Tributary to Salmon River	complete	1997	1997	Private Landowner, BPA, LSWCD, NRCS, USBWP, BLM	BPA/Lemhi Soil and Water Conservation District	Riparian Forest– Production of food and organisms and organic matter, shading, vegetative rooting systems and streambank integrity, and nutrient modification	Jack fencing was constructed to establish 5 grazing units to manage grazing along critical anadromous spawning and rearing habitat along the upper Lemhi River. 0.83 miles of stream were treated.	Photo Reference Points. Future comparison to baseline habitat inventory.				X						
Lemhi River Riparian Enhancement Project, Muleshoe (USBWP # 1997002)	Lemhi River– Tributary to Salmon River	complete	1997	1997	USFWS (PFW), Private Landowner, LSWCD, NRCS, USBWP	USFWS/ Lemhi Soil and Water Conservation District	Riparian Forest– Production of food and organisms and organic matter, shading, vegetative rooting systems and streambank integrity, and nutrient modification; Channel Structure– Substrate	A jack fence was constructed to exclude grazing and enhance riparian vegetation along 0.5 miles of the Lemhi River and .5 miles along Pattee Creek. This project was coordinated by the Lemhi County Riparian Habitat Conservation Agreement Working Group.	Photo Reference Points, future comparison to baseline habitat inventory.				X						

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										UPS	PAH	MSP	LE	MF	MF	MS	SFS	LOS	LSA
Lemhi River Riparian Enhancement Project, Sager 1 (USBWP # 1997008)	Lemhi River– Tributary to Salmon River	complete	1997	1997	Private Landowner, BOR, LSWCD, NRCS, IDFG, USBWP	BOR/Lemhi Soil and Water Conservation District	Riparian Forest– Production of food and organisms and organic matter, shading, vegetative rooting systems and streambank integrity, and nutrient modification; Channel Structure– Substrate	Barb placement in the Lemhi for erosion protection and maintenance of limited pool habitat. Exclusion of fenced 1/8 mile.	Photo Reference Points.				X						
Lemhi River Riparian Enhancement Project, Sager 2 (USBWP # 1997011)	Lemhi River– Tributary to Salmon River	complete	1997	1997	Private Landowner, BOR, LSWCD, NRCS, IDFG, USBWP	BOR/Lemhi Soil and Water Conservation District	Riparian Forest– Production of food and organisms and organic matter, shading, vegetative rooting systems and streambank integrity, and nutrient modification; Channel Structure– Substrate	Barb placement in the Lemhi for erosion protection and maintenance of limited pool habitat.	Photo Reference Points.				X						

Project Name (BPA contract #)	Subbasin/ Location	Status	Begin Year	End Year	Implementing/ Principal Agency	Funding/ Sponsor	Cause of Limiting Factors	Project Description	Comments/ Results/ Monitoring	Geographic area of coverage									
										UPS	PAH	MSP	LE	MF	MF	MS	SFS	LOS	LSA
Lemhi River Riparian Enhancement Project, Snook (USBWP # 1997004)	Lemhi River– Tributary to Salmon River	complete	1997	1997	Private Landowner, BPA, LSWCD, NRCS, USBWP	BPA/Lemhi Soil and Water Conservation District	Riparian Forest– Production of food and organisms and organic matter, shading, vegetative rooting systems and streambank integrity, and nutrient modification	A five-wire fence constructed along the Lemhi River near Baker to enhance riparian vegetation along migration corridor.	Photo Reference Points, future comparison to baseline habitat inventory.				X						
Lemhi River Riparian Enhancement Project, Snook (USBWP # 1997005)	Lemhi River– Tributary to Salmon River	complete	1997	1997	Private Landowner, BPA, LSWCD, NRCS, USBWP	BPA/Lemhi Soil and Water Conservation District	Riparian Forest– Production of food and organisms and organic matter, shading, vegetative rooting systems and streambank integrity, and nutrient modification	A five-wire fence constructed along the Lemhi River near Baker to enhance riparian vegetation along migration corridor.	Photo Reference Points, future comparison to baseline habitat inventory.				X						
Lemhi River Riparian Enhancement Project, Tyler (USBWP # 1997003)	Lemhi River– Tributary to Salmon River	complete	1997	1997	Private Landowner, NMFS, USFS, IDEQ, IDFG, USBWP	Noranda Mine/ Private Landowner/ LSWCD	Riparian Forest– Production of food and organisms and organic matter, shading, vegetative rooting systems and streambank integrity, and nutrient modification	Constructed 15 miles of riparian fence on the upper Lemhi River in critical spawning and rearing areas to protect and enhance riparian conditions. The fence excludes grazing from 80 acres for 50 years.	IDFG fisheries monitoring, future comparison to baseline habitat inventory, temperature monitoring.				X						

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Lemhi River Riparian Enhancement Project, Wagner (USBWP # 1997009)	Lemhi River–Tributary to Salmon River	complete	1997	1997	Private Landowner, LSWCD, IDFG, BLM, NRCS, USBWP	Idaho Fish & Game Screen Shop/LSWCD	Channel Structure–Substrate	Construction of 5 bank barbs for bank stability, and pool maintenance for juvenile chinook rearing habitat.	Implementation monitoring.				X						
Lemhi River Tributary riparian enhancement (Purcell Springs)	Purcell Springs–Tributary to Texas Cr./Lemhi River.	ongoing	1997	ongoing	Salmon Challis NF, Leadore RD.	Federal	Channel structure, sediment, temperature, nutrients and riparian forest.	Riparian habitat improvement by adjusting frequency/duration of grazing–1.0 miles of stream	Bank stability monitoring, photo points, stream habitat comparison				X						
Lemhi River Tributary riparian enhancement (Timber Creek)	Timber Creek–Tributary to the Lemhi River.	complete	1997	1997	BLM–Salmon Field Office	Federal	Channel structure, sediment, temperature, nutrients and riparian forest.	Riparian exclosure fence–1/4 mile of stream.	Bank stability monitoring, photo points, stream habitat comparison				X						
Middle Fork Salmon River tributary habitat enhancement (Camas Creek)	Camas Creek–Tributary to Camas Creek	complete	1997	1997	Salmon Challis NF, Salmon Cobalt RD	Federal	Sediment delivery, possible destruction of redds	Placement of three hardened drivable fords along Camas Creek to prevent chinook salmon spawning in and around fords	Redd surveys						X				
Middle Fork Salmon River tributary riparian enhancement (Camas Creek)	Camas Creek–Tributary to Camas Creek	complete	1997	1997	Salmon Challis NF, Salmon Cobalt RD	Federal	Channel structure, sediment, temperature, nutrients and riparian forest.	Cattle fences across Camas Creek to keep cattle on the hardened fords and outside the exclosure.							X				
North Shore Rehabilitization	Salmon–Headwaters	complete	1997	1997	Sawtooth National Recreation Area	USDA FS		Goal: designate beach access points associated with a segment of the North Shore day use area. Close and rehabilitate numerous others. Benefit: Lakeshore restoration Species: SK,CH,SH,BT,CT	Photographs.										
Perreau Creek Stream Crossing Improvements	Perreau Creek–Tributary to the Salmon River.	complete	1997	1997	BLM–Salmon Field Office	Federal	Channel structure, sediment, temperature, nutrients and riparian forest.	Eliminated 4 stream crossings to reduce sediment inputs/erosion				X							

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Road Reconstruction on Lemhi River Tributary to reduce sediment delivery (Wimpey Creek)	McDevitt Creek–Tributary to the Lemhi River.	complete	1997	2000	BLM–Salmon Field Office	Federal	Sediment delivery to receiving stream	Road sediment reduction project–3.0 miles of road repaired.					X						
Road Reconstruction on Lemhi River Tributary to reduce sediment delivery (Yearian Creek)	Yearian Creek–Tributary to Agency Cr./Lemhi River.	complete	1997	1998	BLM–Salmon Field Office	Federal	Sediment delivery to receiving stream	Road sediment reduction project–3.0 miles of road repaired.					X						
Salmon Corridor Restoration.	Salmon–Headwaters	complete	1997	1997	Sawtooth National Recreation Area	USDA FS		Goal: close and rehabilitate several large and small dispersed campsites adjacent to the Salmon River such as Cove Creek Hot springs, and Casino Creek. Benefit: Habitat restoration Species: SK,CH,SH,BT,CT	Photographs.	x									
Salmon River 38 Diversion Removal	Salmon–Headwaters	complete	1997	1997	Sawtooth National Recreation Area	USDA FS and Idaho Fish and Game		Goal: convert irrigation source to groundwater. Remove and rehabilitate former S38 ditch facilities and rehabilitate. Benefit: Passage restoration Species: SK,CH,SH,BT,CT	Photographs.										

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Salmon River Erosion Control, Bruno (USBWP # 1997015)	Salmon River	complete	1997	1997	Private Landowner, BPA, CSWCD, NRCS, USBWP	BPA/Custer Soil and Water Conservation District	Sediment–Surface Erosion; Water Quality–Nutrients; Riparian Forest–Production of food and organisms and organic matter, shading, vegetative rooting systems and streambank integrity, and nutrient modification	Rock barbs and riparian ribbon fence to protect 1060 feet of the Salmon River.	Photo points. Implementation Monitoring.	X									
Salmon River Erosion Control, Hansen (USBWP # 1997016)	Salmon River	complete	1997	1997	Private Landowner, BPA, CSWCD, NRCS, USBWP	BPA/Custer Soil and Water Conservation District	Sediment–Surface Erosion; Water Quality–Nutrients; Riparian Forest–Production of food and organisms and organic matter, shading, vegetative rooting systems and streambank integrity, and nutrient modification	Rock barbs and riparian ribbon fence to protect 3100 feet of the Salmon River.	Photo points. Implementation Monitoring.	X									

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Salmon River Habitat Protection, Hannah Slough (USBWP # 1997014)	Salmon River	complete	1997	1997	Private Landowner, BPA, CSWCD, NRCS, USBWP, BOR, ISCC, DEQ, Noranda, IDWR, USFWS	BPA/BOR/ ISCC/DEQ/ Noranda/ CSWCD/ IDWR/ USFWS	Sediment–Surface Erosion; Water Quality–Nutrients; Riparian Forest–Production of food and organisms and organic matter, shading, vegetative rooting systems and streambank integrity, and nutrient modification	Streambank stabilization was done in order to prevent the loss of salmon and steelhead spawning habitat. Riparian fence and willow plantings were also used to protect the riverbank.	Photo points. Implementation Monitoring.	X								
Salmon River Riparian Enhancement, Stokes/Morgan Bar (USBWP # 1997006)	Salmon River	complete	1997	1997	USFS, Lemhi County, BLM, Private Landowner, NRCS, LSWCD, USBWP	BPA/Lemhi Soil and Water Conservation District	Riparian Forest–Production of food and organisms and organic matter, shading, vegetative rooting systems and streambank integrity, and nutrient modification	Construction of 0.75 miles of fence along mainstem salmon and construction of 8 bank barbs for bank stability. BLM purchased a conservation agreement along the Salmon River. Willow plantings.	Photo Reference Points.			X							
Salmon River Tributary riparian enhancement (Moccasin Creek)	Moccasin Creek–Tributary to Napias Creek		1997	1998	Salmon Challis NF, Salmon Cobalt RD	Federal	Channel structure, sediment, temperature, nutrients and riparian forest.	Construction of one ¾ mile long exclosure fence	Sediment monitoring			X							

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										UPS	PAH	MSP	LE	MF	MF	MS	SFS	LOS	LSA
Salmon River Tributary riparian enhancement (Warm Springs Creek)	Warms Springs, tributary to the Salmon River	complete	1997	1997	BLM–Challis Field Office	Federal	Channel structure, sediment, temperature, nutrients and riparian forest.	Bradbury Gulch Drift fence to prevent livestock access to the Salmon River and address grazing related erosion concerns.	Photo point, annual fence inspection.			X							
Squaw Creek Habitat Restoration	Squaw Creek, Tributary to Salmon River	complete	1997	1997	Salmon Challis NF, North Fork RD	Federal & Volunteer	Holding/resting habitat, sediment, riparian forest	Stream Restoration Partnership with Trout Unlimited–12 low profile log drop structures and bank stabilization structures within 1 mile to restore salmonid spawning and rearing habitat. (steelhead, chinook salmon, bull trout, westslope cutthroat trout, rainbow trout)	Density monitoring at site-increased 25% & increase in % bank stabilization			X							
Stanley Lake Road Realignment	Salmon–Headwaters	complete	1997	1997	Sawtooth National Recreation Area	USDA FS and Bonneville Power		Goal: Relocate 1 mile of main travel route prior to paving, and associated dispersed campsites, adjacent to Stanley Lake Creek to upland route. Rehabilitate former route and campsites. Benefit: Habitat restoration Species: SK,CH,SH,BT,CT	Before/after photographs. Report on file.										
Sunny Gulch C&H Salmon R Fence.	Salmon–Headwaters	complete	1997	1997	Sawtooth National Recreation Area	USDA FS		Goal: Construct 1 mile of riparian fence along the Salmon River to preclude livestock access. Benefit: Habitat Protection Species: SK,CH,SH,BT,CT	Inspection notes. UTM 4895209 N, 665490 E										
	Breeswood Ranch, Meadows Valley		1997	ongoing	ISCC, IDFG	ISCC, IDFG, Adams SCD, John Brees		riparian fencing and planting	intensive baseline channel and vegetation survey, 1999.										X
	Osborn Ranch, Meadows Valley		1997	ongoing	USFWS, IDFG	USFWS, IDFG, Osborn Ranch		Wildlife extension agreement; riparian exclosure and vegetation planting	photo record										X
	Eagle Creek Road Improvement and Restoration		1997		BLM (CFO)	BLM		Road encroached on stream channel and during high flow conditions creek flowed down road creating large gullies, erosion, as significant sediment delivery.	Segments of road re-constructed to move road out of active floodplain. Post-project monitoring found that negligible erosion and sediment has occurred after project completed.									X	

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	Aaron Wilson Ranch, Rapid River		1997		Governor of Idaho, Aaron Wilson, Idaho SCD, ISCC, IDFG, NRCS, USFWS	Governor's Office, ISCC, Idaho SCD		Riparian fencing and offsite livestock water development for bull trout conservation	annual fish abundance surveys by IDFG										X
	Riordan Creek-Lower Johnson Creek drainage. Above Riordan Lake		1997		Boise NF; Cascade RD	USFS		Riordan Trail rehabilitation	Rehabilitation of trail with bridges and segment relocation to avoid bull trout spawning/rearing reaches.								X		
	Sister Creek, SFSR		1997		Boise NF; Cascade RD	USFS		Sister Creek blowout repair	Repair of SFSR Road (474) at Sister Creek where January rain-on-snow mass failure from wildfire caused blowout of road culvert and loss of road prism.								X		
	Upper SFSR–Kline Mountain Road Project, Plunge Cut-off #490 road		1997		Boise NF; Cascade RD	USFS		Road obliteration and wetland restoration	photos								X		
	Upper SFSR near Kline Mt area of 474 road		1997		Boise NF; Cascade RD	USFS		Repair of Molly Hot Springs trail following landslide	rework of existing non-FS system trail to hot springs to less erosive state.								X		
Agency Creek, Lemhi River Barrier Removal (USBWP # 1998003)	Agency Creek–Tributary to Lemhi River	complete	1998	1998	Private Landowner, BOR, LSWCD, NRCS, IDFG, USBWP	BOR/Lemhi Soil and Water Conservation District	Hydrology–Low Flows, Discharge; Channel Structure–Fish Migration Barrier, Fish Migration Delays and Annual Channel Disturbance	Part of larger IDFG project to reconnect Agency Creek. Removal of a diversion barrier. Install log v-weir for fish passage. Installation of headgate and culvert.	Photo Reference Points. Implementation monitoring.				X						

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Aspen Clone Maintenance and Enhancement.	Salmon–Headwaters	complete	1998	1998	Sawtooth National Recreation Area	USDA FS		Goal: rip perimeter of aspen clones within the headwaters, Pole and Forth of July Creek drainages to stimulate stand regeneration and expansion. Benefit: Habitat enhancement Species: terrestrial	Before/after photographs. UTM 4862207 N, 679098 E, and 4878295 N, 677706 E	x									
Carbonate Mine Reclamation.	Salmon–Headwaters	complete	1998	1998	Sawtooth National Recreation Area	USDA FS		Goal: close and rehabilitate several miles of former mine operation roads. Benefit: Watershed restoration Species: BT,CT	Photographs. UTM 4896330 N, 694090 E										
East Fork Salmon River Erosion Control, 10-Mile Group (USBWP # 1998001)	East Fork–Tributary to Salmon River	complete	1998	1998	Private Landowner, BPA, CSWCD, NRCS, USBWP	BPA/Custer Soil and Water Conservation District	Channel structure, sediment, temperature, nutrients and riparian forest.	Bank stabilization, using rock barbs. Willow plantings.	Photo Reference Points. Implementation monitoring.	X									
East Fork Salmon River Erosion Control, Baker 2 (USBWP # 1998008)	East Fork–Tributary to Salmon River	complete	1998	1998	BPA, CSWCD, IDFG Screen Shop, Private Landowner	BPA/Custer Soil and Water Conservation District	Channel structure, sediment, temperature, nutrients and riparian forest.	Rip rap on the East Fork Salmon River. Fish and Game no longer responsible for the bridge easement.	Photo Reference Points. Implementation monitoring.	X									
East Fork Salmon River Riparian Enhancement, Baker Horse Pasture 1 (USBWP # 1998005)	East Fork–Tributary to Salmon River	complete	1998	1998	Private Landowner, BPA, CSWCD, NRCS, USBWP	BPA/Custer Soil and Water Conservation District	Riparian Forest–Production of food and organisms and organic matter, shading, vegetative rooting systems and streambank integrity, and nutrient modification	7200 feet of jack fence was built along the East Fork Salmon River in critical habitat to protect riparian conditions. 0.95 miles of stream was treated.	Photo Reference Points. Future comparison to baseline habitat inventory.	X									

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										UPS	PAH	MSP	LE	MF	MF	MS	SFS	LOS	LSA
East Fork Salmon River Riparian Enhancement, Guffy (USBWP # 1998009)	East Fork–Tributary to Salmon River	complete	1998	1998	Private Landowner, BPA, CSWCD, NRCS, USBWP	BPA/Custer Soil and Water Conservation District	Riparian Forest–Production of food and organisms and organic matter, shading, vegetative rooting systems and streambank integrity, and nutrient modification	1450 feet of jack fence along the East Fork. 0.3 miles of stream was treated.	Photo Reference Points. Future comparison to baseline habitat inventory.	X									
Fishhook Trail Realignment	Salmon–Headwaters	complete	1998	1998	Sawtooth National Recreation Area	USDA FS		Goal: relocate ¼ mile of severely eroding trail adjacent to Fishhook Creek to upland route. Rehabilitate former route. Benefit: Habitat restoration Species: CH,SH,BT,CT	Before/after photographs.										
Forest road obliteration to return to natural state	Various areas on Forest.	complete	1998	1998	Salmon Challis NF, Salmon Cobalt RD	Federal	Sediment delivery to receiving stream	1.1 miles of road obliteration for wildlife security				X			X				
Hawley Creek, Lemhi River Riparian Enhancement 2	Hawley Creek–Tributary to the Lemhi River.	ongoing	1998	ongoing	Salmon Challis NF, Leadore RD	Federal	Channel structure, sediment, temperature, nutrients and riparian forest.	Riparian habitat improvement by adjusting frequency/duration of grazing–20.0 miles of stream.	Bank stability monitoring, photo points, stream habitat comparison				X						
Idaho Anadromous Fish Screening Program (BPA Project #1994-015-00)	All anadromous HUCs	ongoing	1998	ongoing	IDFG	BPA/NOAA Fisheries	Fish entrainment into irrigation systems	Replaced 12 fish screens, eliminated 4 fish screens, installed 1 infiltration screen, installed 1 step-up pool, eliminated 6 diversion dams, installed 25 passive pump screens, installed 2 self-cleaning pump screens, installed 11 headgates, demolition of 22 old fish screens, and installed 3 safety fences.	Screen tenders maintain screens on a daily basis to assure proper functioning condition, duties include; observations of fish behavior and salvaging fish during irrigation shutdowns.	X	X	X	X	X	X	X	X	X	X

Project Name (BPA contract #)	Subbasin/ Location	Status	Begin Year	End Year	Implementing/ Principal Agency	Funding/ Sponsor	Cause of Limiting Factors	Project Description	Comments/ Results/ Monitoring	Geographic area of coverage									
										UPS	PAH	MSP	LE	MF	MF	MS	SFS	LOS	LSA
Lemhi River Diversion Elimination and Modification, L45c/L45d (USBWP # 1998010)	Lemhi River–Tributary to Salmon River	complete	1998	1998	Private Landowner, IDFG Screen Shop, BPA, LSWCD, NRCS, USBWP	Idaho Fish and Game Screen Shop/Lemhi Soil and Water Conservation District	Hydrology–Low Flows, Discharge; Channel Structure–Fish Migration Barrier, Fish Migration Delays and Annual Channel Disturbance	Consolidation of flows from diversion L45c into L45d. Elimination of L45c. Modification of L45d.	Photo points. Implementation Monitoring.				X						
Lemhi River Diversion Modification, L8a (USBWP # 1998004)	Lemhi River–Tributary to Salmon River	complete	1998	1998	Private Landowner, BPA, LSWCD, NRCS, USBWP	BPA/Lemhi Soil and Water Conservation District	Channel Structure–Fish Migration Barrier, Fish Migration Delays and Annual Channel Disturbance	Constructed rock vortex weir, headgate, and wasteway to facilitate fish passage on the Lemhi River. (In low water years, this section of river was typically dewatered.)	Photo Reference Points. Implementation monitoring.				X						
Lemhi River Riparian Enhancement, Ellsworth (USBWP # 1998006)	Lemhi River–Tributary to Salmon River	complete	1998	1998	Private Landowner, BPA, LSWCD, NRCS, USBWP	BPA/Lemhi Soil and Water Conservation District	Riparian Forest–Production of food and organisms and organic matter, shading, vegetative rooting systems and streambank integrity, and nutrient modification	2,000 feet of jack fence was built to establish a corridor fence to protect and enhance riparian vegetation along the Lemhi River.	Photo Reference Points. Future comparison to baseline habitat inventory.				X						
Lemhi River Tributary riparian enhancement (Little 8 Mile Creek)	Little 8 Mile Creek–Tributary to the Lemhi River.	complete	1998	1998	Salmon Challis NF, Leadore RD.	Federal	Channel structure, sediment, temperature, nutrients and riparian forest.	Riparian exclosure fence–3.0 miles of stream	Bank stability monitoring, photo points, stream habitat comparison				X						

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										UPS	PAH	MSP	LE	MF	MF	MS	SFS	LOS	LSA
Lemhi River Tributary riparian enhancement (Little 8 Mile Creek)	Little 8 Mile Creek– Tributary to the Lemhi River.	ongoing	1998	ongoing	Salmon Challis NF, Leadore RD.	Federal	Channel structure, sediment, temperature, nutrients and riparian forest.	Riparian habitat improvement by adjusting frequency/duration of grazing–8.0 miles of stream	Bank stability monitoring, photo points, stream habitat comparison				X						
Middle Agency Creek, Lemhi River Riparian Enhancement	Agency Creek– Tributary to the Lemhi River	complete	1998	1998	BLM–Salmon Field Office	Federal	Channel structure, sediment, temperature, nutrients and riparian forest.	3.0 miles fence protect riparian habitat.	Bank stability monitoring, photo points, stream habitat comparison				X						
Pine Creek, East Fork Salmon River Flow Improvement (USBWP # 1998007)	Pine Creek– Tributary to East Fork Salmon River	complete	1998	1998	Private Landowner, BPA, CSWCD, NRCS, USBWP	BPA/Custer Soil and Water Conservation District	Hydrology–Low Flows, Discharge; Channel Structure–Fish Migration Barrier, Fish Migration Delays and Annual Channel Disturbance	Irrigation improvement to let 4 cfs. Remain in Pine Creek.	Photo Reference Points. Implementation monitoring.	X									
Road Reconstruction on East Fork Salmon River Tributary to reduce sediment delivery (Road creek)	Road Creek, tributary to East Fork Salmon River	complete	1998	1998	BLM–Challis Field Office	Federal	Sediment delivery to receiving stream	Two miles of road drainage improvements to reduce sediment loading into fish bearing stream.	Photo point, annual inspections to monitor for erosion.	X									
Road Reconstruction on Lemhi River Tributary to reduce sediment delivery (Wimpey Creek)	Wimpey Creek– Tributary to the Lemhi River.	complete	1998	2000	BLM–Salmon Field Office	Federal	Sediment delivery to receiving stream	Road sediment reduction project–4.0 miles of road repaired.					X						

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Road Reconstruction on Middle Fork Salmon River Tributary to reduce sediment delivery (Camas Creek)	Silver Creek–Tributary to Camas Creek	complete	1998	1998	Salmon Challis NF, Salmon Cobalt RD	Federal		Silver Creek road reconstruction to prevent sediment delivery–raised road bed around beaver dam complexes, hardened ditches, surfaced approx. 7 miles of road, etc.	Sediment monitoring						X				
Road Reconstruction on Panther Creek Tributary to reduce sediment delivery	Deep Creek–Tributary to Panther Creek.		1998		Salmon Challis NF, Salmon Cobalt RD	Federal	Sediment delivery to receiving stream	Resurfacing 7.0 miles of road to reduce sediment into creek.				X							
Rupert Mine Reclamation.	Salmon–Headwaters	complete	1998	1998	Sawtooth National Recreation Area	USDA FS		Goal: close and rehabilitate several miles of former mine operation roads. Benefit: Watershed restoration Species: CH,SH,BT,CT	Photographs. UTM 482678 N, 686316 E										
Salmon River riparian enhancement	Salmon River.	complete	1998	2000	BLM–Salmon Field Office	Federal	Channel structure, sediment, temperature, nutrients and riparian forest.	Bank stabilization–1 mile.				X							
Salmon River Riparian Enhancement and Erosion Reduction (USBWP # 1998002)	Salmon River	complete	1998	1998	USFWS (PFW), Private Landowner, BOR, Lemhi County, LSWCD, NRCS, USBWP	USFWS/Lemhi County/BOR/LSWCD	Riparian Forest–Production of food and organisms and organic matter, shading, vegetative rooting systems and streambank integrity, and nutrient modification	Constructed 1.4 miles of fence along the mainstem Salmon River. Also, installed 10 rock barbs to improve bank stability.	Photo Reference Points.	X									
Salmon River Tributary Fish Passage Improvement (Pine Creek)	Pine Creek, Tributary to Salmon River	complete	1998	1998	Salmon Challis NF, North Fork RD	Federal	Fish passage	Replaced partial fish barrier culvert with modular bridge opened up 6 miles of spawning and rearing habitat (steelhead, bull trout, westslope cutthroat trout, rainbow trout)	Implementation Monitoring and field observations			X							

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Salmon River Tributary Fish Passage Improvements (Pine Creek)	Pine Creek	complete	1998	1998	Salmon Challis NF, NFRD	Federal	Fish passage	Replaced barrier culvert with bridge to provide fish access.				X							
Salmon River Tributary Habitat Improvement Project (Wagonhammer Creek)	Wagonhammer Creek, Tributary to Salmon River	complete	1998	1998	Salmon Challis NF, North Fork RD	Federal &Volunteer	Channel structure, sediment, temperature, nutrients and riparian forest.	Stream Restoration Partnership with Trout Unlimited–30 low profile log drop structures and bank stabilization structures within 2 miles to restore westslope cutthroat trout spawning and rearing habitat.	Density monitoring at site-increased 25% & increase in % bank stabilization			X							
Salmon River Tributary Passage Improvements (Carmen Creek)	EF Spring Creek	complete	1998	1998	Salmon Challis NF, NFRD	Federal	Fish passage	Replaced barrier culvert with open bottom arch culvert to provide fish access.				X							
Salmon River Tributary riparian enhancement (Carmen Creek)	Carmen Creek–Tributary to the Salmon River.	ongoing	1998	ongoing	BLM–Salmon Field Office	Federal	Channel structure, sediment, temperature, nutrients and riparian forest.	Riparian habitat improvement by adjusting frequency/duration of grazing–2.0 miles of stream.	Bank stability monitoring, photo points, stream habitat comparison			X							
Salmon River Tributary riparian enhancement (Poison Creek)	Poison Springs in the upper Pahsimeroi River	complete	1998	1998	BLM–Challis Field Office	Federal	Channel structure, sediment, temperature, nutrients and riparian forest.	Poison Springs pipeline to provide off-channel watering for livestock; reduces livestock pressure on exclosure fences	Annual inspection and maintenance.		X								
Sediment control in main Salmon River	Cronks Canyon, main Salmon River	complete	1998	1998	BLM–Challis Field Office	Federal	Sediment, temperature, nutrients and riparian forest.	Installation and maintenance of Bradshaw Basin Sediment Retention dams to prevent mass soil movements into the Salmon River.	Photo point, annual inspections to monitor for erosion.			X							
Stanley Lake Trail (upper) Realignment	Salmon–Headwaters	complete	1998	1998	Sawtooth National Recreation Area	USDA FS		Goal: relocate ½ mile of trail through wet meadows and 2 fords to upland route requiring no stream crossings. Rehabilitate former route. Benefit: Habitat restoration Species: SK,CH,SH,BT,CT	Before/after photographs.										

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Texas Creek, Lemhi River Riparian Enhancement, Ellsworth (USBWP # 1998011)	Texas Creek–Tributary to Lemhi River	complete	1998	1998	Private Landowner, BPA, LSWCD, NRCS, USBWP, BLM	BPA/Lemhi Soil and Water Conservation District	Channel structure, sediment, temperature, nutrients and riparian forest.	3,400 feet of 5-wire fence was installed on Texas Creek to create a riparian pasture.	Photo Reference Points.				X						
	Stibnite		1998		USFS/IDL	$432k – IDL/FS project reclamation bond held by IDL (forfeited by operator); $215k – reclamation bond held by FS; $54k– cyanidation permit bond held by DEQ; $146k– earmarked FS funds; $52k–FS project funds		Mine closure under approved reclamation plan. Recontour 7 miles of haul road, 14 miles of exploration road, decommission cyanide process facility, restore 8 perennial drainage crossings & numerous intermittent crossings, planted upland & riparian vegetation, seed/mulch/fertilize	Water quality monitoring (DEQ & FS) at established stations 3 times/year. Hydrolabs during summer/fall. Effectiveness monitoring (observed) once per month (minimum).								X		
	Billy Creek Ranch Conservation easement.		1998		BLM (CFO)	BLM		Acquired a conservation easement on 3,491acres of private lands bordering 8 miles of Salmon River.	Easement restricts further development, timber harvest, road building, or sale of private lands bordering Salmon River. Easement does allow existing uses to continue (e.g., livestock grazing).									X	
	Burgdorf Meadows, Lake Creek (tributary to Secesh River)		1998		IDFG, Nez Perce Tribe	BPA		Permanent conservation easement on 94.43 acres	photo record at time of easement							X			
	Curtis Creek–upper SFSR and Burntlog Creek–lower Johnson Creek drainages		1998		Boise NF; Cascade RD	USFS		Maintenance of 1994 409I; 409J; 447T and 448 road obliterations.									X		

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	Ditch Creek 410 road-Lower Johnson Creek		1998		Boise NF; Cascade RD	USFS		Ditch Creek road repair	Slump in 410 road repaired with French drain and resurfacing of approximately 100 ft of road								X		
	Upper SFSR–Trail Repair: Telephone Ridge		1998		Boise NF; Cascade RD	USFS		Tyndall trail; Telephone Ridge ATV trail; Rice Creek Trail rehabilitation	Placement of multiple bridges and segment relocation of Tyndall trail; reconstruction of Telephone Ridge ATV trail to minimize off - road use near Rice Creek; Relocation of Rice Creek trail segment to reduce erosion into bull trout and steelhead habitat.								X		
	Warm Lake hwy (FH-22) at 409 junction. Upper SFSR/Trail Creek		1998		Boise NF; Cascade RD	USFS		Repair of 1997 rain-on-snow road fill slope and prism mass wasting failure of FH-22 into Trail Creek	stabilization of road fill ; resurfacing of new constructed road and ditch line; placement of relief culverts and ditches to reduce overland spring surface runoff onto fill slope.								X		
Canyon Creek, Lemhi River Flow Enhancement (USBWP # 1999009)	Canyon Creek–Tributary to Lemhi River	complete	1999	1999	Private Landowner, BPA, LSWCD, NRCS, USBWP, IDFG	BPA/Lemhi Soil and Water Conservation District	Hydrology–Low Flows, Discharge; Channel Structure–Fish Migration Barrier, Fish Migration Delays and Annual Channel Disturbance	Install sprinkler pivots to improve irrigation efficiency. This project will reconnect Canyon Creek to the Lemhi River, and provide access to historical anadromous habitat.	IDFG fisheries monitoring.				X						
Crooked Creek Diversions Removal	Salmon–Headwaters	complete	1999	1999	Sawtooth National Recreation Area	USDA FS with Fish America Foundation.		Goal: discontinue irrigation withdrawals. Remove and rehabilitate diversion facilities and associated ditches. Benefit: Habitat restoration Species: CH,SH,BT,CT	Before/after photographs. Report on file.										

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East Fork Salmon River Riparian Enhancement and Erosion Reduction (USBWP # 1999001)	East Fork–Tributary to Salmon River	complete	1999	1999	Private Landowner, BPA, CSWCD, NRCS, USBWP	BPA/Custer Soil and Water Conservation District	Riparian Forest–Production of food and organisms and organic matter, shading, vegetative rooting systems and streambank integrity, and nutrient modification	Rock barbs and riparian ribbon fence to protect 4000 feet of the East Fork Salmon River.	Photo Reference Points.	X									
East Fork Salmon River Riparian Enhancement, 10 Mile/Pine Creek (USBWP # 1999007)	East Fork–Tributary to Salmon River	complete	1999	1999	Private Landowner, BPA, CSWCD, SBT, NRCS, USBWP	BPA/Custer Soil and Water Conservation District	Riparian Forest–Production of food and organisms and organic matter, shading, vegetative rooting systems and streambank integrity, and nutrient modification	3000 feet of fence was constructed by the Baker family. 1850 feet was constructed by the Shoshone Bannock tribes to enhance riparian vegetation along spawning and rearing along the East Fork Salmon River. 0.92 miles of stream was treated.	Future comparison to baseline habitat inventory.	X									
East Fork Salmon River Riparian Enhancement, Baker 1 (USBWP # 1999003)	East Fork–Tributary to Salmon River	complete	1999	1999	Private Landowner, BPA, CSWCD, NRCS, USBWP	BPA/Custer Soil and Water Conservation District	Riparian Forest–Production of food and organisms and organic matter, shading, vegetative rooting systems and streambank integrity, and nutrient modification	Construct riparian enhancement fence to improve riparian vegetation along approx 3700 feet of the East Fork Salmon River. 2100 feet added in 2002. 0.7 miles of stream was treated.	Photo Reference Points. Future comparison to baseline habitat inventory.	X									

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East Fork Salmon River Riparian Enhancement, Baker 2 (USBWP # 1999004)	East Fork–Tributary to Salmon River	complete	1999	1999	Private Landowner, BPA, CSWCD, NRCS, USBWP	BPA/Custer Soil and Water Conservation District	Riparian Forest–Production of food and organisms and organic matter, shading, vegetative rooting systems and streambank integrity, and nutrient modification	Improve riparian vegetation along 5500 feet of the East Fork Salmon River with riparian ribbon fence.	Photo Reference Points.	X									
East Fork Salmon River Riparian Enhancement, Leuzinger/ Dowton (USBWP # 1999002)	East Fork–Tributary to Salmon River	complete	1999	1999	Private Landowner, BPA, CSWCD, NRCS, USBWP	BPA/Custer Soil and Water Conservation District	Riparian Forest–Production of food and organisms and organic matter, shading, vegetative rooting systems and streambank integrity, and nutrient modification	Riparian ribbon fencing to improve riparian vegetation along 1700 feet of the East Fork Salmon River.	Future comparison to baseline habitat inventory.	X									
East Fork Salmon River Tributary Riparian Enhancement	East Fork Salmon River, main Salmon River, Pahsimeroi River	complete	1999	2000	BLM–Challis Field Office	Federal	Channel structure, sediment, temperature, nutrients and riparian forest.	Four miles of riparian planting project at various locations to restore streamside vegetation, reduce sediment inputs and stabilize streambanks.	Plant survival, photo points.	X									

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Eighteenmile Creek, Lemhi River Riparian Enhancement, Kruckeberg 1 (USBWP # 1999006)	Eighteenmile Creek– Tributary to Lemhi River	complete	1999	1999	Private Landowner, BPA, LSWCD, NRCS, USBWP	BPA/Lemhi Soil and Water Conservation District	Riparian Forest– Production of food and organisms and organic matter, shading, vegetative rooting systems and streambank integrity, and nutrient modification	Improve riparian vegetation and streambank stability along Eighteenmile Creek. 1.2 miles of stream was treated.	Photo Reference Points.				X						
Elk Meadows Trailhead Relocation	Salmon– Headwaters	complete	1999	1999	Sawtooth National Recreation Area	USDA FS		Goal: relocate deteriorating and expanding trailhead adjacent to Elk Creek to upland location. Rehabilitate the former location and ¼ mile of road. Benefit: Habitat restoration Species: CH,SH,BT,CT	Before/after photographs.	x									
Fisher Creek Trail Reroute.	Salmon– Headwaters	complete	1999	1999	Sawtooth National Recreation Area and volunteers	USDA FS		Goal: close and relocate 1.5 mile of badly eroding trail in drainage bottom to ridgetop. Rehabilitate former route. Benefit: Habitat restoration Species: BT,CT	Before/after photographs.	x									
Forest road obliteration to return to natural state	Various areas on Forest.	complete	1999	1999	Salmon Challis NF, NFRD	Federal	Sediment delivery to receiving stream	4.5 miles of road obliteration for wildlife security				X							
Forest road reconstruction to return to natural state	Headwaters MFSR– Beaver and Marsh creeks.	complete	1999	1999	Salmon Challis NF, Yankee Fork RD	Federal	Sediment delivery to receiving stream	Resurfaced 6.5miles of road to reduce sediment inputs into stream.						X					
Good Hope Mine Reclamation.	Salmon– Headwaters	complete	1999	1999	Sawtooth National Recreation Area	USDA FS		Goal: close and rehabilitate several miles of former mine operation roads including fords and streamside segments. Benefit: Watershed restoration Species: CH,SH,BT,CT	Photographs.										

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Idaho Anadromous Fish Screening Program (BPA Project #1994-015-00)	All anadromous HUCs	ongoing	1999	ongoing	IDFG	BPA/NOAA Fisheries	Fish entrainment into irrigation systems	Replaced 12 fish screens, eliminated 6 fish screens, installed 1 drum screen, installed 3 modular screens, eliminated 3 diversion dams, installed 33 passive pump screens, installed 2 self-cleaning pump screens, installed 7 headgates, demolition of 11 old fish screens, and installed 2 safety fences.	Screen tenders maintain screens on a daily basis to assure proper functioning condition, duties include; observations of fish behavior and salvaging fish during irrigation shutdowns.	X	X	X	X	X	X	X	X	X	X
Lemhi River Erosion Reduction, Merritt (USBWP # 1999010)	Lemhi River–Tributary to Salmon River	complete	1999	1999	Private Landowner, BPA, LSWCD, NRCS, USBWP	BPA/Lemhi Soil and Water Conservation District	Channel structure, sediment, temperature, nutrients and riparian forest.	Construct 5 rock barbs, 4 tree barbs, and reconstruction of existing v-weir to provide bank stability.	Photo Reference Points.				X						
Lemhi River Riparian Enhancement, McFarland 1 (USBWP # 1999011)	Lemhi River–Tributary to Salmon River	complete	1999	1999	Private Landowner, BPA, LSWCD, NRCS, USBWP, BLM	BPA/Lemhi Soil and Water Conservation District	Riparian Forest–Production of food and organisms and organic matter, shading, vegetative rooting systems and streambank integrity, and nutrient modification	Corridor fence was installed on northwest side of the Lemhi River to improve riparian vegetation along 6500 feet of river bank in critical habitat.	Photo Reference Points. Future comparison to baseline habitat inventory.				X						

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Lemhi River Water Quality Improvement, Knight (USBWP # 1999016)	Lemhi River– Tributary to Salmon River	complete	1999	1999	Private Landowner, IDFG Screen Shop, BPA, LSWCD, NRCS, USBWP	Idaho Fish and Game Screen Shop/Lemhi Soil and Water Conservation District	Sediment– Surface Erosion; Water Quality– Nutrients; Riparian Forest– Production of food and organisms and organic matter, shading, vegetative rooting systems and streambank integrity, and nutrient modification	Move cattle feeding operation to away from live water and install off stream water. Install riparian fencing.	Photo points. Implementation Monitoring.				X						
Pahsimeroi River Riparian Enhancement, Gydesen (USBWP # 1999013)	Pahsimeroi River– Tributary to Salmon River	complete	1999	1999	BPA, CSWCD, BLM, NRCS, Private Landowner, USBWP	BPA/Custer Soil and Water Conservation District	Riparian Forest– Production of food and organisms and organic matter, shading, vegetative rooting systems and streambank integrity, and nutrient modification	Riparian fencing along 1.1 miles of the Pahsimeroi River.	Photo Reference Points. Future comparison to baseline habitat inventory.	X									

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Pahsimeroi River Riparian Enhancement, Spengler (USBWP # 1999005)	Pahsimeroi River– Tributary to Salmon River	complete	1999	1999	Private Landowner, BPA, CSWCD, NRCS, USBWP	BPA/Custer Soil and Water Conservation District	Riparian Forest– Production of food and organisms and organic matter, shading, vegetative rooting systems and streambank integrity, and nutrient modification	Improve riparian vegetation along approximately 5000 feet of the Pahsimeroi. This project established a 3-pasture grazing system along the river, improving 120 acres of bottomland and irrigated pasture.	Photo Reference Points.	X									
Pahsimeroi River Tributary riparian enhancement (Burnt Creek)	Burnt Creek, tributary to Upper Pahsimeroi R.	complete	1999	1999	BLM–Challis Field Office	Federal	Channel structure, sediment, temperature, nutrients and riparian forest.	Connected seven existing riparian exclosures to exclude livestock grazing from six miles of fish bearing stream	Photo points, streambank stability, salmonid population monitoring		X								
Pahsimeroi River Tributary riparian enhancement (Mahogany Creek)	Mahogany Creek, tributary to Pahsimeroi R.	complete	1999	1999	BLM–Challis Field Office	Federal	Channel structure, sediment, temperature, nutrients and riparian forest.	Two miles of riparian exclosure fence to protect riparian habitat	Photo points, streambank stability, salmonid population monitoring		X								
Pahsimeroi River Tributary riparian enhancement (Mahogany Creek)	Pahsimeroi River from Mahogany Creek to Long Creek	complete	1999	1999	BLM–Challis Field Office	Federal	Channel structure, sediment, temperature, nutrients and riparian forest.	Eight miles of exclosure fence to exclude livestock from the Pahsimeroi River and restore streamside vegetation, reduce sedimentation and stabilize streambanks.	Photo points, streambank stability, salmonid population monitoring		X								
Pahsimeroi River Tributary riparian enhancement (Mahogany Creek)	Upper Pahsimeroi River (Mahogany Creek to Double Springs Cr.)	complete	1999	1999	BLM–Challis Field Office	Federal	Channel structure, sediment, temperature, nutrients and riparian forest.	Riparian Exclosure Fence to exclude livestock grazing from seven miles of fish bearing stream.	Photo points, streambank stability, salmonid population monitoring		X								

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Pass Creek Ford Obliteration	Salmon–Headwaters	complete	1999	1999	Sawtooth National Recreation Area	USDA FS		Goal: close and rehabilitate a user established deteriorating ford through Fisher Creek. Benefit: Habitat restoration Species: BT,CT	Before/after photographs.	x									
Pattee Creek, Lemhi River Fish Passage Improvement, L31 (USBWP # 1999008)	Pattee Creek–Tributary to Lemhi River	complete	1999	1999	Private Landowner, BPA, LSWCD, NRCS, USBWP, BOR	BPA/Lemhi Soil and Water Conservation District	Hydrology–Low Flows, Discharge; Channel Structure–Fish Migration Barrier, Fish Migration Delays and Annual Channel Disturbance	Installed fish passage siphon in Pattee Creek to allow fish passage through a dewatered section of the stream.	Photo Reference Points. Implementation monitoring.				X						
Road 206 Wetland/Floodplain Restoration	Salmon–Headwaters	complete	1999	1999	Sawtooth National Recreation Area and Idaho Transportation Department	USDA FS and Idaho Transportation Department		Goal: remove road fill and rehabilitate ¼ mile of road located in wetland and floodplain and associated dispersed campsites. Benefit: Habitat restoration Species: SK,CH,SH,BT,CT	Before/after photographs. Report on file.	x									
Road Reconstruction on Lemhi River Tributary to reduce sediment delivery and improve fish passage (Agency Creek)	Agency Creek–Tributary to the Lemhi River.	complete	1999	1999	BLM–Salmon Field Office	Federal	Sediment delivery to receiving stream. Fish passage.	Road sediment reduction project–10 miles of road repaired, 12 culverts replaced..					X						
Road Reconstruction on Salmon River Tributary to reduce sediment delivery (Panther Creek)	Williams Creek–Tributary to Panther Creek.	complete	1999	1999	Salmon Challis NF, Salmon Cobalt RD	Federal	Sediment delivery to receiving stream	Resurfacing 3.0 miles of road to reduce sediment into creek.				X							
Rough Creek Non-system Road Rehabilitation	Salmon–Headwaters	complete	1999	1999	Sawtooth National Recreation Area	USDA FS		Goal: close and rehabilitate ¼ mile of badly eroding road running directly into Salmon River. Benefit: Habitat restoration Species: SK,CH,SH,BT,CT	Before/after photographs. Report on file.	x									

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Salmon River Diversion Elimination, S32 2 (USBWP # 1999014)	Salmon River	complete	1999	1999	Private Landowner, BPA, CSWCD, NRCS, USBWP	BPA/Custer Soil and Water Conservation District	Hydrology–Low Flows, Discharge; Channel Structure–Fish Migration Barrier, Fish Migration Delays and Annual Channel Disturbance	Elimination of three irrigation ditches by consolidation into Challis irrigation canal	Photo points. Implementation Monitoring.	X									
Salmon River Riparian Enhancement, Hannah Slough Plantings (USBWP # 1999015)	Salmon River	complete	1999	1999	Private Landowner, BPA, CSWCD, NRCS, USBWP	BPA/Custer Soil and Water Conservation District	Sediment–Surface Erosion; Water Quality–Nutrients; Riparian Forest–Production of food and organisms and organic matter, shading, vegetative rooting systems and streambank integrity, and nutrient modification	Continued restoration work on Hannah Slough 1 & 2. It included willow plantings by the community and agencies.	Photo points. Implementation Monitoring.	X									

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Salmon River Riparian Enhancement, IMR (USBWP # 1999017)	Salmon River	complete	1999	1999	Private Landowner, BPA, CSWCD, NRCS, USBWP	BPA/Custer Soil and Water Conservation District	Sediment–Surface Erosion; Water Quality–Nutrients; Riparian Forest–Production of food and organisms and organic matter, shading, vegetative rooting systems and streambank integrity, and nutrient modification	1 mile of riparian fence along Williams Creek and Gold Creek.	Photo points. Implementation Monitoring.	X									
Salmon River Tributary Habitat Improvement Project (Dump Creek)	Indian Creek, Tributary to Salmon River	complete	1999	1999	Salmon Challis NF, North Fork RD	Federal &Volunteer	Holding/resting habitat, sediment, riparian forest	Stream Restoration Partnership with Trout Unlimited–3 low profile log drop structures within 1 mile to restore salmonid spawning and rearing habitat. (steelhead chinook salmon, bull trout, westslope cutthroat trout, rainbow trout)	Density monitoring at site-increased 25%			X							
Salmon River Tributary Habitat Improvement Project (Thompson Creek)	Thompson Creek–Schelite Jim Mill site restoration.	complete	1999	1999	Salmon Challis NF, Yankee Fork RD	Federal	Heavy metals	Create wetland to reduce heavy metals and ARD from mining activity. Improve water quality.	Water quality testing	X									
Salmon River Tributary Passage Improvements (Carmen Creek)	Freeman Creek–Tributary to Carmen Cr./Salmon River.	complete	1999	1999	BLM–Salmon Field Office	Federal	Fish passage	Replaced culverts to improve fish passage.				X							
Salmon River Tributary Passage Improvements (Spring Creek)	Spring Creek, Tributary to Salmon River		1999		Salmon Challis NF, North Fork RD	Federal	Fish passage	Replaced partial fish barrier culvert with open bottom arch culvert opened up 2 miles of spawning and rearing habitat (steelhead chinook salmon, bull trout, westslope cutthroat trout, rainbow trout)	Implementation Monitoring and field observations			X							

Project Name (BPA contract #)	Subbasin/ Location	Status	Begin Year	End Year	Implementing/ Principal Agency	Funding/ Sponsor	Cause of Limiting Factors	Project Description	Comments/ Results/ Monitoring	Geographic area of coverage									
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Salmon River Tributary Passage Improvements (Wagonhammer Creek)	Wagonhammer Creek, Tributary to Salmon River	complete	1999	1999	Salmon Challis NF, North Fork RD	Federal &Volunteer	Holding/resting habitat, sediment, riparian forest	Stream Restoration 4 low profile log drop structures and bank stabilization structures within 0.25 miles to restore westslope cutthroat trout spawning and rearing habitat.	Density monitoring at site-increased 25 & increase in % bank stabilization			X							
Stanley Lake Diversion Screen.	Salmon–Headwaters	complete	1999	1999	Idaho Fish and Game	NWPPC		Goal: install prefabricated screen on existing diversion Benefit: Passage restoration Species: SK,CH,SH,BT,CT	special use permit issued by USFS	x									
Stanley Lake Trail (lower) Reconstruction	Salmon–Headwaters	complete	1999	1999	Sawtooth National Recreation Area	USDA FS		Goal: reconstruct, with french-drained turnpike, ¼ mile of badly deteriorating trail through wet meadows and 3 fords adjacent to Stanley Lake Creek. Benefit: Wetland Restoration. Species: SK,CH,SH,BT,CT	Before/after photographs.	x									
Trap Creek Diversion Removal	Salmon–Headwaters	complete	1999	1999	Sawtooth National Recreation Area	USDA FS		Goal: rehabilitate ½ mile of main supply ditch and ½ mile of facility access road located adjacent to Trap Creek. Benefit: Habitat restoration Species: CH,SH,BT,CT	Before/after photographs.	x									
Valley Creek 5/6 Diversion Consolidation	Salmon–Headwaters	complete	1999	1999	Sawtooth National Recreation Area and Idaho Fish and Game, Landmark Volunteers	USDA FS, NWPPC, and Idaho Fish and Game, Landmark Volunteers		Goal: consolidate two diversions at one new location. Return ½ mile of previously captured Hanna Creek to it's historic channel. Remove and rehabilitate former diversion facilities and ditches. Benefit: Habitat and passage restoration Species: CH,SH,BT,CT	Before/after photographs. Report on file.										
Wimpy Creek, Lemhi River Flow Enhancement (USBWP # 1999012)	Wimpy Creek–Tributary to Lemhi River	complete	1999	1999	Private Landowner, BPA, LSWCD, NRCS, USBWP	BPA/Lemhi Soil and Water Conservation District	Hydrology–Low Flows, Discharge; Channel Structure–Fish Migration Barrier, Fish Migration Delays and Annual Channel Disturbance	Install sprinkler system to save water, move corrals away from creek.	Photo Reference Points. Implementation monitoring.				X						

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	Brown's Industries, Inc., Meadows Valley		1999	ongoing	USFWS	USFWS, NRCS, IDFG, Adams SCD		30-year riparian easement, hydrological rehabilitation, fencing, offsite livestock water development, and planting	photo record										X
	John Day Creek watershed		1999		BLM (CFO)	BLM		Rehabilitated and partially obliterated 1.5 miles of road located on landslide prone sites. Active slumping and road failures starting.	Reduce active erosion and reduce potential for catastrophic road failures and sediment delivery to John Day Creek. No active slumping or road related failures identified from 2000 monitoring.									X	
	Lower Hard Creek and Hazard Creek watersheds and Little Salmon River		1999		BLM (CFO)	BLM		Rehabilitate road failures that occurred from 1997 New Years day rain on snow event. Improve drainage and reduce sediment from 4 miles of road located in lower portions of drainages.	Reduce active erosion and reduce potential for catastrophic road failures and sediment delivery to Hazard Cr., Hard Cr. and Little Salmon River. Post project monitoring identified stabilization of slopes and reduced sediment from roads.										X
	Greylock Creek– Tributary to Yankee Fork SR.		1999		Salmon Challis NF, Yankee Fork RD	Federal		Replace existing bridge to allow for fish migration, stabilize streambanks.		X									
	Upper SFSR up and downstream of Stolle Meadows Trail Repair: Yellow Jacket, Tyndall Creek		1999		Boise NF; Cascade RD	USFS		Reconstruction /relocation of Tyndall and Yellow jacket trails	Relocation of 1/2 mi of Tyndall Ck trail from streamside to near ridgeline. Relocation of bottom 1/4 mile of Yellow Jacket trail to reduce multiple trails and associated erosion. Construction of 2 trail bridges- across SFSR and Yellow Jacket Creek bull trout and chinook habitat.								X		
	Cabin Ck (Wilderness airstrip)		1999		USFS (PNF)	USFS (PNF)		Watershed stabilization	See Payette NF Watershed Monitoring Reports (Dave Kennell)						X				
Alpine Way Trail Realignment	Salmon– Headwaters	complete	2000	2000	Sawtooth National Recreation Area	USDA FS		Goal: close and relocate ½ mile of badly eroding trail, located in headwater tributary requiring several stream crossing, to an upland location. Rehabilitate former route. Benefit: Habitat restoration Species: CH,SH,BT,CT	Photographs.	x									

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Alturas Lake Creek Headwaters Restoration	Salmon–Headwaters	complete	2000	2000	Sawtooth National Recreation Area	USDA FS		Goal: restore flow to ¼ mile of high quality habitat abandoned earlier when Alturas Lake Creek was captured by Road 205 Benefit: Habitat restoration Species: SK,CH,SH,BT,CT	Before/after photographs. Surveyed profile and cross-sections. Report on file.	x									
East Fork Bank Stabilization.	Salmon–Headwaters	complete	2000	2000	Sawtooth National Recreation Area	USDA FS		Goal: stabilize 200 feet of rapidly eroding bank adjacent to the main East Fork Road. Benefit: Stream stabilization Species: CH,SH,BT,CT	Photographs.	x									
East Fork Salmon River Riparian Enhancement, Ingram 2 (USBWP # 2000004)	East Fork–Tributary to Salmon River	complete	2000	2000	Private Landowner, BPA, CSWCD, NRCS, USBWP	BPA/Custer Soil and Water Conservation District	Riparian Forest–Production of food and organisms and organic matter, shading, vegetative rooting systems and streambank integrity, and nutrient modification	Riparian fencing to protect spawning and rearing habitat. 0.5 miles of stream was treated.	Photo Reference Points.	X									

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Eighteenmile Creek, Lemhi River Riparian Enhancement, Tyler (USBWP # 2000001)	Eighteenmile Creek–Tributary to Lemhi River	complete	2000	2000	Private Landowner, BPA, LSWCD, NRCS, USBWP	BPA/Lemhi Soil and Water Conservation District	Sediment–Surface Erosion; Water Quality–Nutrients; Riparian Forest–Production of food and organisms and organic matter, shading, vegetative rooting systems and streambank integrity, and nutrient modification	5,150 feet of Cross fence was installed along Eighteenmile Creek.	Photo points. Implementation Monitoring.				X						
Forest road obliteration to return to natural state	Various areas on Forest.	complete	2000	2000	Salmon Challis NF, Salmon Cobalt RD	Federal	Sediment delivery to receiving stream	2.0 miles of road obliteration for wildlife security				X			X				
Fourth of July Party Meadow Rehab.	Salmon–Headwaters	complete	2000	2003	Sawtooth National Recreation Area	private		Goal: rehabilitate with native veg approximately 1 acre of seasonally wet meadow severely damaged by vehicle play. Benefit: Meadow restoration Species: CH,SH,BT,CT	Before/after photographs	x									
Frenchman Ford Restoration	Salmon–Headwaters	complete	2000	2000	Sawtooth National Recreation Area	USDA FS		Goal: ½ mile of Road 195 relocated out of compromised and deteriorating ford and wetland area of Frenchman Creek to nearby upland route and new bridge. Former route and ford rehabilitated Benefit: Habitat restoration Species: CH,SH,BT,CT	Before/after photographs. Surveyed profile and cross-sections. Report on file.										
Geertson Creek, Lemhi River Riparian Enhancement 1	Geertson Creek–Tributary to the Lemhi River	complete	2000	2001	BLM–Salmon Field Office	Federal	Channel structure, sediment, temperature, nutrients and riparian forest.	1/2 mile fence to protect riparian habitat	Bank stability monitoring, photo points, stream habitat comparison				X						

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Geertson Creek, Lemhi River Riparian Enhancement 2	Geertson Creek–Tributary to the Lemhi River	ongoing	2000	ongoing	BLM–Salmon Field Office	Federal	Channel structure, sediment, temperature, nutrients and riparian forest.	Riparian habitat improvement by adjusting frequency/duration of grazing–3.5 miles of stream.	Bank stability monitoring, photo points, stream habitat comparison				X						
Gold Creek Fish Screens.	Salmon–Headwaters	complete	2000	2000	Idaho Fish and Game	NWPPC		Goal: consolidate and install fish screen on GOC2 and 3 diversions (on private land) and install fish screen on GOC4. Benefit: Passage restoration Species: BT,CT	special use permit issued by USFS. UTM 4886470 N, 672285 E										
Hayden Creek Land exchange to protect riparian resources	Hayden Creek–Tributary to the Lemhi River.	complete	2000	2000	BLM–Salmon Field Office	Federal	Channel structure, sediment, temperature, nutrients and riparian forest.	26 acre land exchange to protect riparian habitat.					X						
Idaho Anadromous Fish Screening Program (BPA Project #1994-015-00)	All anadromous HUCs	ongoing	2000	ongoing	IDFG	BPA/NOAA Fisheries	Fish entrainment into irrigation systems	Replaced 7 fish screens, eliminated 4 fish screens, installed 1 infiltration screen, installed 3 modular screens, improved 1 diversion dam, eliminated 1 diversion dam, installed 60 passive pump screens, eliminated 6 pump screens, installed 3 headgates, demolition of 7 old fish screens, and installed 2 safety fences.	Screen tenders maintain screens on a daily basis to assure proper functioning condition, duties include; observations of fish behavior and salvaging fish during irrigation shutdowns.	X	X	X	X	X	X	X	X	X	X
Kirtley Creek, Lemhi River Riparian Enhancement	Kirtley Creek–Tributary to the Lemhi River.	complete	2000	2000	BLM–Salmon Field Office	Federal	Channel structure, sediment, temperature, nutrients and riparian forest.	Riparian exclosure fence–2.0 miles of stream.	Bank stability monitoring, photo points, stream habitat comparison				X						

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Lawson Creek, Lemhi River Riparian Enhancement (USBWP # 2000008)	Lawson Creek–Tributary to Pahsimeroi River	complete	2000	2000	Private Landowner, BPA, CSWCD, NRCS, USBWP	BPA/Custer Soil and Water Conservation District	Riparian Forest–Production of food and organisms and organic matter, shading, vegetative rooting systems and streambank integrity, and nutrient modification	This project is to utilize Anderson Spring as a source for livestock watering to eliminate grazing pressure from the Lawson Creek.	Implementation monitoring.	X									
Lemhi River Channel Enhancement (USBWP # 2000007)	Lemhi River–Tributary to Salmon River	complete	2000	2000	Private Landowner, ITD, NRCS, LSWCD, USBWP	Idaho Transportation Department/ LSWCD	Channel structure–Pools and Riffles.	Instream structures constructed as part of mitigation for building Highway 28 bridges. Funded by IDT.	IDFG fisheries monitoring. Implementation monitoring.				X						
Lemhi River Riparian Enhancement, McFarland 2 (USBWP # 2000006)	Lemhi River–Tributary to Salmon River	complete	2000	2000	Private Landowner, BPA, LSWCD, NRCS, USBWP	BPA/Lemhi Soil and Water Conservation District	Riparian Forest–Production of food and organisms and organic matter, shading, vegetative rooting systems and streambank integrity, and nutrient modification	1200 feet of fence along Lemhi River in critical habitat.	Photo Reference Points. Future comparison to baseline habitat inventory.				X						
Lemhi River Tributary Fish Passage Improvements (18 Mile Creek)	18 mile Creek–Tributary to the Lemhi River	complete	2000	2000	BLM–Salmon Field Office	Federal	Fish passage	2 culverts replaced–barrier removal.					X						

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Pahsimeroi River Diversion Elimination and Enhancement, P9 (USBWP # 2000005)	Pahsimeroi River–Tributary to Salmon River	complete	2000	2000	Private Landowner, BPA, CSWCD, NRCS, USBWP, IDFG Screen Shop	BPA/IDFG Screen Shop/ Custer Soil and Water Conservation District	Hydrology–Low Flows, Discharge; Channel Structure–Fish Migration Barrier, Fish Migration Delays and Annual Channel Disturbance	P-8a diversion eliminated. Unscreened pump diversion eliminated below P-8a. An estimated 11.2 cfs will be used to maintain flows in Big Springs Ck, Pahsimeroi R., Duck Sp. Ck., and Mud Sp. Ck. Also, location of IDFG project 199401500	Photo points. Implementation Monitoring.		X								
Pahsimeroi River Stream Channel Enhancement, Latimer (USBWP # 2000003)	Pahsimeroi River–Tributary to Salmon River	complete	2000	2000	Private Landowner, BPA, CSWCD, NRCS, USBWP	BPA/Custer Soil and Water Conservation District	Channel structure, sediment, temperature, nutrients and riparian forest.	Place monolithic barbs to stabilize critical anadromous spawning habitat in the Pahsimeroi.	Bank Stability. Implementation monitoring.		X								
Pahsimeroi River Tributary riparian enhancement (Carlson Springs)	Carlson Springs in Upper Pahsimeroi River	complete	2000	2000	BLM–Challis Field Office	Federal	Channel structure, sediment, temperature, nutrients and riparian forest.	Construction of Yribar Pipeline to provide off-channel watering for livestock; reduces livestock pressure on exclosure fences.	Annual inspection and maintenance.		X								
Pettit Fords Restoration	Salmon–Headwaters	complete	2000	2000	Sawtooth National Recreation Area	USDA FS		Goal: close and rehabilitate 2 user established and deteriorating fords through Pettit Lake Creek. Benefit: Habitat restoration Species: SK,CH,SH,BT,CT	Photographs.										
Road Reconstruction on Lemhi River Tributary to reduce sediment delivery (18 Mile Creek)	18 Mile Creek–Tributary to the Lemhi River.	complete	2000	2000	BLM–Salmon Field Office	Federal	Sediment delivery to receiving stream	Road sediment reduction project–5.0 miles of road repaired.					X						
Road Reconstruction on Salmon River Tributary to reduce sediment delivery (Carmen Creek)	Carmen Creek–Tributary to the Salmon River.	complete	2000	2000	BLM–Salmon Field Office	Federal	Sediment delivery to receiving stream	Road sediment reduction project–1.5 miles of road repaired.				X							

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Salmon River Diversion Elimination and Enhancement, Gini Canal (USBWP # 2000002)	Salmon River	complete	2000	2000	Private Landowner, BPA, CSWCD, NRCS, USBWP, IDFG Screen Shop	BPA/Custer Soil and Water Conservation District	Hydrology–Low Flows, Discharge; Channel Structure–Fish Migration Barrier, Fish Migration Delays and Annual Channel Disturbance	Eliminate the S-29 diversion by converting the Laverty/Cutler Ranch from flood to sprinkler irrigation. Consolidate the S-26 (Hammond/Leaton ditch) and Chester pump diversion into the S-28 (Gini) canal. Both S-26 and S-29 were closed.	Photo Reference Points. Future evaluation of travel times using existing PIT tag information. Implementation monitoring.	X									
Salmon River Tributary Fish Passage Improvements (Basin Creek)	Coal Creek–tributary to Basin Creek–Salmon River.	complete	2000	2000	Salmon Challis NF, Yankee Fork RD	Federal	Fish passage	Replaced barrier culvert to provide fish access to 3 miles of stream.		X									
Salmon River Tributary Fish Passage Improvements (Challis Creek)	West Fork and Twin creeks–tributary to Challis Creek.	complete	2000	2000	Salmon Challis NF, Salmon Challis RD	Federal	Fish passage	Replaced barrier culverts to provide fish access.		X									
Salmon River Tributary Fish Passage Improvements (Hardin Creek)	American Creek–Tributary to Hardin Creek–Salmon R.	complete	2000	2000	Salmon Challis NF, Yankee Fork RD	Federal	Fish passage	Replaced barrier culvert to provide fish access to 3 mi. of habitat.		X									
Salmon River Tributary Fish Passage Improvements (Horse Creek)	Horse Creek, Tributary to Salmon River	complete	2000	2000	Salmon Challis NF, North Fork RD	Federal	Fish passage	Removed fish barrier culvert opened up 2 miles of bull trout spawning and rearing habitat	Implementation Monitoring and field observations							X			
Salmon River Tributary Habitat Improvement Project (Dump Creek)	Dump Creek, Tributary to Salmon River	complete	2000	2000	Salmon Challis NF, North Fork RD	Federal &Volunteer	Holding/resting habitat, sediment, riparian forest	Stream Restoration Partnership with Trout Unlimited–12 low profile log drop structures within 1 mile to restore salmonid rearing habitat. (steelhead chinook salmon)	Implementation Monitoring & Density monitoring at site-increased 25%			X							

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Salmon River Tributary Habitat Improvement Project (Indian Creek)	Indian Creek, Tributary to Salmon River	complete	2000	2000	Salmon Challis NF, North Fork RD	Federal &Volunteer	Holding/resting habitat, sediment, riparian forest	Partnership with Salmon Alternative School constructing one low profile log drop structure to restore salmonid spawning and rearing habitat. (steelhead chinook salmon, bull trout, westslope cutthroat trout, rainbow trout)	Implementation Monitoring & increase in % bank stabilization			X							
Salmon River Tributary Habitat Improvement Project (Kids Creek)	Salmon River	complete	2000	2000	Salmon Challis NF, North Fork RD	Federal &Volunteer	Holding/resting habitat, sediment, riparian forest	River of No Return Ranch Streambank Stabilization Project with private landowners and Salmon Alternative School 1500 feet	Implementation Monitoring & increase in % bank stabilization			X							
Sawtooth Valley Allotment Fences Conversion	Salmon–Headwaters	ongoing	2000		Sawtooth National Recreation Area, and Landmark Volunteers	USDA FS/Sawtooth Society, RMEF		Goal: replace 11 miles of woven wire fence of the former Busterback Ranch with 2 strand to facilitate antelope passage. Benefit: Passage restoration Species: terrestrial	photographs	x									
Sawtooth Valley Secondary Ditches Rehabilitation	Salmon–Headwaters	complete	2000	2000	Sawtooth National Recreation Area	USDA FS		Goal: rehabilitate 29 miles of secondary and distributary ditches no longer used within the former Busterback Ranch. Benefit: Watershed restoration Species: CH,SH,BT,CT	Before/after photographs. Report on file.										
Yankee Fork Salmon River Habitat Improvement Project	Yankee Fork SR	complete	2000	2000	Salmon Challis NF, Yankee Fork RD	Federal	Channel structure, sediment, temperature, nutrients and riparian forest.	Fire rehab. to reduce impacts of Rankin Creek fire.	Sediment Monitoring	X									
Yankee Fork Salmon River Tributary Fish Passage Improvements (Rankin Creek)	Rankin Creek–Tributary to Yankee Fork SR.	complete	2000	2000	Salmon Challis NF, Yankee Fork RD	Federal	Fish passage	Replaced barrier culvert to provide fish access to 2 mi. of habitat.		X									
Yellowbelly Barrier Removal	Salmon–Headwaters	complete	2000	2000	Sawtooth National Recreation Area	USDA FS		Goal: Former IDFG rough fish barrier and access road removed from Yellowbelly Lake Creek. Benefit: Passage restoration Species: SK,CH,SH,BT,CT	Before/after photographs. Report on file.										
	Circle C Ranch, Round Valley Cr		2000	ongoing	IDFG	IDFG		riparian planting	none										X

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	Hard Creek watershed		2000		BLM (CFO) & USFS (PNF)	BLM		Rehabilitate and convert 5 miles of road located on landslide prone sites to a trail These roads were severely flood damaged and had many road failures/slumps as a result of 1997 New Years rain on snow event.	Reduce potential for catastrophic road failures and sediment delivery to Hard Creek. Post project monitoring identified stabilization of slopes, improved vegetative cover, and significant reduction in erosion.										X
	Little Salmon River Upper Meadows		2000		NRCS, USFWS, IDFG, BLM	NRCS, USFWS, IDFG		NRCS is the lead for this project and has acquired a 30 year conservation easement for the area. Primary restoration actions include fencing to exclude cattle from 274 acres, plug lateral diversion ditches, divert water from channelized side channel into main channel, plant shrubs and trees, and construct off-site watering for cattle.	Project implementation started in 2000 and is planned to be fenced for exclusion of livestock in 2001. Effectiveness monitoring will be ongoing for the project. Primary objectives are to improve wetland and riparian resources for the area.										X
	Chamberlain Basin		2000		Payette NF	USDAFS / BAER		Trail and watershed restoration following Diamond/Flossie Complex fire								X			
	Secesh River and tributaries		2000		Payette NF	USDAFS / BAER		Trail and watershed restoration following Burgdorf Junction Complex and Yellowpine Complex fires									X		
	Johnson Creek–Sand Creek		2000		Boise NF; Cascade RD	USFS		Riparian Planting	Aid in revegetation along riparian areas in old (1960's) dearcuts.								X		
	Chinook CG, Secesh River, Ruby Creek		2000		USFS (PNF)	USFS (PNF)		Trail bridges–replaced a motorized fords									X		
Big Boulder Trailhead Restoration.	Salmon–Headwaters	complete	2001	2001	Sawtooth National Recreation Area	USDA FS		Goal: Define trailhead boundaries and restore damaged conditions in closed dispersed campsites surrounding the trailhead adjacent to Big Boulder Creek. Benefit: Streamside restoration Species: CH,SH,BT,CT											

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Canyon Creek, Lemhi River Flow Enhancement, Whitefish Ditch (USBWP # 201004)	Canyon Creek, Lemhi River–Tributary to Salmon River	complete	2001	2001	Private Landowner, BPA, LSWCD, NRCS, USBWP	BPA/Lemhi Soil and Water Conservation District	Hydrology–Low Flows, Discharge; Channel Structure–Fish Migration Barrier, Fish Migration Delays and Annual Channel Disturbance	A log weir was installed at the confluence of Canyon Creek and Whitefish ditch. Approx. 3300 feet of fish rearing area opened and fish passage improved to Canyon Creek.	Photo points. Implementation Monitoring.				X						
Canyon Creek, Lemhi River Riparian Enhancement (USBWP # 2001006)	Canyon Creek, Lemhi River–Tributary to Salmon River	complete	2001	2001	Private Landowner, BPA, LSWCD, NRCS, USBWP	BPA/Lemhi Soil and Water Conservation District	Sediment–Surface Erosion; Water Quality–Nutrients; Riparian Forest–Production of food and organisms and organic matter, shading, vegetative rooting systems and streambank integrity, and nutrient modification	Electric fence on both sides of Canyon Cr from Lemhi back road thru Beyeler property to the Lemhi River(~5528ft) and the eastside of Whitefish Ditch from cross fence to Canyon Cr(~1320ft). A water gap was closed; a berm and two troughs installed.	Photo points. Implementation Monitoring.				X						
Developed Rec Fences.	Salmon–Headwaters	complete	2001	2001	Sawtooth National Recreation Area	USDA FS		Goal: construct fences along damaged and degrading streamside and lakeside areas associated with developed recreation facilities at Alturas Inlet CG, Alturas Inlet Day-use, Redfish Lodge, Redfish Entrance, and Torrey's Overlook Benefit: Habitat restoration Species: SK,CH,SH,BT,CT	Before/after photographs	x									

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Dry Creek Roads.	Salmon–Headwaters	complete	2001	2001	Sawtooth National Recreation Area	USDA FS		Goal: 3.1 miles of road in the bottom of two drainages obliterated and watershed and channel conditions rehabilitated. Benefit: Watershed and channel restoration Species: terrestrial. CH,SH,BT,CT downstream	photographs. UTM 4904104 N, 656073 E	x									
East Fork Salmon River Riparian Enhancement, Valley Sun (USBWP # 2001009)	East Fork Salmon River	complete	2001	2001	Private Landowner, BPA, CSWCD, NRCS, USBWP	BPA/Custer Soil and Water Conservation District	Riparian Forest–Production of food and organisms and organic matter, shading, vegetative rooting systems and streambank integrity, and nutrient modification	Willow and cottonwood plantings on severely eroded portions of the lower East Fork Salmon River	Photo points. Implementation Monitoring.	X									
Forest road obliteration to return to natural state	Moccasin Creek–tributary to Panther Creek.	complete	2001	2001	Salmon Challis NF, Salmon Cobalt RD	Federal	Sediment delivery to receiving stream	Obliterate 1 mile of road to protect riparian areas.				X							
Hermit Mine Road Obliteration	Salmon–Headwaters	complete	2001	2001	Sawtooth National Recreation Area	USDA FS		Goal: close and rehabilitate one mile of former mine access road. Benefit: Watershed restoration Species: BT,CT	UTM 4891116 N, 693996 E										

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Idaho Anadromous Fish Screening Program (BPA Project #1994-015-00)	All anadromous HUCs	ongoing	2001	ongoing	IDFG	BPA/NOAA Fisheries	Fish entrainment into irrigation systems	Replaced 7 fish screens, eliminated 2 fish screens, installed 4 drum screens, installed 3 infiltration screen, installed 9 modular screens, improved 6 diversion dams, eliminated 2 diversion dams, installed 73 passive pump screens, eliminated 4 pump screens, installed 10 headgates, demolition of 15 old fish screens, and installed 1 safety fences.	Screen tenders maintain screens on a daily basis to assure proper functioning condition, duties include; observations of fish behavior and salvaging fish during irrigation shutdowns. Monitoring of screens for NOAA Fisheries flow criteria and underwater cameras to document screen integrity, investigations of tributaries for entrainment threats, PIT-tag remote sensing for entrainment and migration timing, and investigations into fish salvage and fish behind screen complexes.	X	X	X	X	X	X	X	X	X	X
Iron Creek Fish Screens.	Salmon–Headwaters	complete	2001	2001	Idaho Fish and Game	NWPPC		Goal: consolidate and install fish screen on IC4 and 5 diversions, and install fish screens on IC 3 and 6 Benefit: Passage restoration Species: CH,SH,BT,CT	special use permit issued by USFS. UTM 4897373 N, 661762 E										
Lemhi River Riparian Enhancement, Goddard (USBWP # 2001005)	Lemhi River–Tributary to Salmon River	complete	2001	2001	Private Landowner, BPA, LSWCD, NRCS, USBWP	BPA/Lemhi Soil and Water Conservation District	Riparian Forest–Production of food and organisms and organic matter, shading, vegetative rooting systems and streambank integrity, and nutrient modification	Constructed 5,240 feet of riparian fencing along the Lemhi River.	Photo points. Implementation Monitoring.				X						

Project Name (BPA contract #)	Subbasin/ Location	Status	Begin Year	End Year	Implementing/ Principal Agency	Funding/ Sponsor	Cause of Limiting Factors	Project Description	Comments/ Results/ Monitoring	Geographic area of coverage									
										UPS	PAH	MSP	LE	MF	MF	MS	SFS	LOS	LSA
Lemhi River Riparian Enhancement, Herbst (USBWP # 2001010)	Lemhi River– Tributary to Salmon River	complete	2001	2001	Private Landowner, BPA, LSWCD, NRCS, USBWP	BPA/Lemhi Soil and Water Conservation District	Riparian Forest– Production of food and organisms and organic matter, shading, vegetative rooting systems and streambank integrity, and nutrient modification	Installed off stream water for livestock	Photo points. Implementation Monitoring.				X						
Lemhi River Riparian Enhancement, Merritt (USBWP # 2001002)	Lemhi River– Tributary to Salmon River	complete	2001	2001	Private Landowner, BPA, LSWCD, NRCS, USBWP	BPA/Lemhi Soil and Water Conservation District	Riparian Forest– Production of food and organisms and organic matter, shading, vegetative rooting systems and streambank integrity, and nutrient modification	Riparian fencing to enhance stream-bank stability.	Photo Reference Points. Future comparison to baseline habitat inventory.				X						

Project Name (BPA contract #)	Subbasin/ Location	Status	Begin Year	End Year	Implementing/ Principal Agency	Funding/ Sponsor	Cause of Limiting Factors	Project Description	Comments/ Results/ Monitoring	Geographic area of coverage									
										UPS	PAH	MSP	LE	MF	MF	MS	SFS	LOS	LSA
Lemhi River Water Quality Improvement, Snook (USBWP # 2001001)	Lemhi River– Tributary to Salmon River	complete	2001	2001	Private Landowner, BPA, LSWCD, NRCS, USBWP	BPA/Lemhi Soil and Water Conservation District	Sediment– Surface Erosion; Water Quality– Nutrients; Riparian Forest– Production of food and organisms and organic matter, shading, vegetative rooting systems and streambank integrity, and nutrient modificatio n	Removal of feedlot from stream corridor.	Photo Reference Points. Implementation monitoring.				X						

Project Name (BPA contract #)	Subbasin/ Location	Status	Begin Year	End Year	Implementing/ Principal Agency	Funding/ Sponsor	Cause of Limiting Factors	Project Description	Comments/ Results/ Monitoring	Geographic area of coverage									
										UPS	PAH	MSP	LE	MF	MF	MS	SFS	LOS	LSA
Mahogany Creek, Pahsimeroi River Diversion Enhancement (USBWP # 2001008)	Mahogany Creek, tributary to Pahsimeroi R.	complete	2001	2001	Private Landowner, BPA, CSWCD, NRCS, USBWP	BPA/Custer Soil and Water Conservation District	Hydrology–Low Flows, Discharge; Channel Structure–Fish Migration Barrier, Fish Migration Delays and Annual Channel Disturbance; Riparian Forest–Production of food and organisms and organic matter, shading, vegetative rooting systems and streambank integrity, and nutrient modification	This project built a livestock water pipeline in order to conserve water, improve fish passage, and improve cattle distribution.	Photo points. Implementation Monitoring.		X							
North Fork Salmon River Habitat Improvement Project	North Fork Salmon River, Tributary to Salmon River	complete	2001	2001	Salmon Challis NF, North Fork RD	Federal &Volunteer	Holding/resting habitat, sediment, riparian forest	Stream Restoration Partnership with Trout Unlimited–3 low profile log drop structures within 0.25 miles to restore salmonid spawning and rearing habitat. (steelhead chinook salmon, bull trout, westslope cutthroat trout, rainbow trout)	Implementation Monitoring			X							
Perkins Lake Outlet Pioneered Track Obliteration.	Salmon–Headwaters	complete	2001	2001	Sawtooth National Recreation Area	USDA FS		Goal: close and rehabilitate 1 mile of user established and expanding vehicle track through wet meadows. Benefit: Watershed and wetland restoration Species: SK,CH,SH,BT,CT	Before/after photographs	x									
Rough Creek Road Reconstruction.	Salmon–Headwaters	complete	2001	2001	Sawtooth National Recreation Area	USDA FS		Goal: reconstruct road drainage on 4.5 miles of road. Benefit: Watershed function Species: BT,CT	photographs										

Project Name (BPA contract #)	Subbasin/ Location	Status	Begin Year	End Year	Implementing/ Principal Agency	Funding/ Sponsor	Cause of Limiting Factors	Project Description	Comments/ Results/ Monitoring	Geographic area of coverage									
										UPS	PAH	MSP	LE	MF	MF	MS	SFS	LOS	LSA
Salmon River Diversion Elimination and Enhancement (USBWP # 2001003)	Salmon River	complete	2001	2001	Private Landowner, BPA, LSWCD, NRCS, USBWP, BOR	BPA/Lemhi Soil and Water Conservation District	Hydrology–Low Flows, Discharge; Channel Structure–Fish Migration Barrier, Fish Migration Delays and Annual Channel Disturbance	Consolidate S-13 into S-14 canal. Eliminate S-13 gravel push-up dam and close canal, reducing fish passage delays.	Photo Reference Points. Future evaluation of travel times using existing PIT tag information.			X							
Salmon River Diversion Elimination and Enhancement, S11/S12 (USBWP# 20010011)	Salmon River	complete	2001	2001	Private Landowner, BPA, LSWCD, NRCS, USBWP	BPA/Lemhi Soil and Water Conservation District	Hydrology–Low Flows, Discharge; Channel Structure–Fish Migration Barrier, Fish Migration Delays and Annual Channel Disturbance	Consolidation of flows from S12 into S11. Elimination of S12. Modification of S11.	Photo points. Implementation Monitoring.			X							
Salmon River Riparian Enhancement, Rocky Mountain Ranch (USBWP # 2001007)	Salmon River	complete	2001	2001	Private Landowner, BPA, CSWCD, NRCS, USBWP	BPA/Custer Soil and Water Conservation District	Riparian Forest–Production of food and organisms and organic matter, shading, vegetative rooting systems and streambank integrity, and nutrient modification	5400 ft Riparian fence and 2000 ft fence around fish screen. And an additional 1986 ft.	Photo points. Implementation Monitoring.	X									
Salmon River Tributary Fish Passage Improvements (Panther Creek)	Panther Creek–Tributary to the Salmon River	complete	2001	2001	Salmon Challis NF, Salmon Cobalt RD	Federal	Fish passage	Replacement of five culverts throughout the headwaters of Panther Creek to allow for fish passage	Velocity and jump height monitoring			X							

Project Name (BPA contract #)	Subbasin/ Location	Status	Begin Year	End Year	Implementing/ Principal Agency	Funding/ Sponsor	Cause of Limiting Factors	Project Description	Comments/ Results/ Monitoring	Geographic area of coverage									
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Stanley Lake Old Highway Wetland Restoration	Salmon–Headwaters	complete	2001	2001	Sawtooth National Recreation Area	USDA FS		Goal: 2 acres of abandoned road fill removed and former wetland function rehabilitated. Benefit: Wetland Restoration. Species: SK,CH,SH,CT	Before/after photographs										
Stanley Sewer Lagoons Restoration.	Salmon–Headwaters	complete	2001	2001	Sawtooth National Recreation Area, and City of Stanley	State of Idaho Rural Development		Goal: remove and rehabilitate 2 sewer cells occupying 10 acres of floodplain and wetland adjacent to Valley Creek. Benefit: Floodplain/wetland restoration Species: SK,CH,SH,BT,CT	photographs										
	Long Gulch		2001	2003	IDFG/IDL	IDT/FHWA		Enhance and restore 16 acres of wetland function previously disturbed by highway construction and gravel mining										X	
	Craig Mountain WMA		2001	ongoing	IDFG	Timber sale proceeds/IDFG		wildlife habitat improvements, forest restoration	photos, yearly reports, GIS mapping									X	
	Stibnite		2001		USFS/IDL/DEQ	$100k–FS Project funds		Mine closure under approved reclamation plan. Complete revegetation, reduce width of haul road from leach pads to spent ore disposal area	Water quality monitoring (DEQ & FS) at established stations 3 times/year. Hydrolabs during summer/fall. Effectiveness monitoring (observed) once per month (minimum).								X		
	Stibnite–Meadow Cr.		2001		USFS	$200k–FS CERCLA		Isolate Bradley tailings from Meadow Cr. Pull tails out of channel and cap with impervious clay material. Revegetate.	Reduce metals contribution to EFSFSR. Water quality monitoring (DEQ & FS) at established stations 3 times/year. Hydrolabs during summer/fall. Effectiveness monitoring (observed) once per month (minimum).								X		
	Stibnite–Meadow Cr.		2001		USFS	$300k–FS National Fire Plan		Remove contaminated material from "Poison Pond" along Meadow Cr. and place in disposal cell. Restore aquatic habitat in Meadow Cr. channel	Reduce metals contribution to EFSFSR. Water quality monitoring (DEQ & FS) at established stations 3 times/year. Hydrolabs during summer/fall. Effectiveness monitoring (observed) once per month (minimum).								X		
	Stibnite		2001		USFS	$60k–BAER		Remove old diversion structure from EFSFSR above Meadow Cr. confluence. Replace undersized culverts at Rabbit Cr. and Fern Cr.									X		

Project Name (BPA contract #)	Subbasin/ Location	Status	Begin Year	End Year	Implementing/ Principal Agency	Funding/ Sponsor	Cause of Limiting Factors	Project Description	Comments/ Results/ Monitoring	Geographic area of coverage									
										UPS	PAH	MSP	LE	MF	MF	MS	SFS	LOS	LSA
Big Springs Creek, Lemhi River Riparian Enhancement (USBWP # 2002001)	Big Springs Creek, Lemhi River tributary to Salmon River	complete	2002	2002	Private Landowner, BPA, LSWCD, NRCS, USBWP	BPA/Lemhi Soil and Water Conservation District	Riparian Forest– Production of food and organisms and organic matter, shading, vegetative rooting systems and streambank integrity, and nutrient modification	Placement of riparian fence, a hardened crossing and a bridge to protect salmon and steelhead spawning areas. 2 miles of stream was treated.	Photo points. Implementation Monitoring.				X						
East Fork Salmon River Riparian Enhancement, Baker 3 (USBWP # 2002005)	East Fork Salmon River	complete	2002	2002	Private Landowner, BPA, CSWCD, NRCS, USBWP	BPA/Custer Soil and Water Conservation District	Riparian Forest– Production of food and organisms and organic matter, shading, vegetative rooting systems and streambank integrity, and nutrient modification	2100 feet added in 2002 to Project 1999003.	Photo points. Implementation Monitoring.	X									
East Fork Salmon River Riparian Enhancement, Baker Horse Pasture 2 (USBWP # 2002002)	East Fork Salmon River	complete	2002	2002	Private Landowner, BPA, CSWCD, NRCS, USBWP	BPA/Custer Soil and Water Conservation District	Riparian Forest– Production of food and organisms and organic matter, shading, vegetative rooting systems and streambank integrity, and nutrient modification	5400 feet of fence was added to project 1998005.	Photo points. Implementation Monitoring.	X									

Project Name (BPA contract #)	Subbasin/ Location	Status	Begin Year	End Year	Implementing/ Principal Agency	Funding/ Sponsor	Cause of Limiting Factors	Project Description	Comments/ Results/ Monitoring	Geographic area of coverage									
										UPS	PAH	MSP	LE	MF	MF	MS	SFS	LOS	LSA
Elk Creek Dispersed Campsite Rehab	Salmon–Headwaters	complete	2002	2002	Sawtooth National Recreation Area	USDA FS		Goal: close and rehabilitate newly established dispersed campsite area in potentially damaging location adjacent to Elk Creek. Benefit: Streamside restoration Species: CH,SH,BT,CT	photographs	x									
Fourth of July Fish Screens.	Salmon–Headwaters	complete	2002	2002	Idaho Fish and Game	NWPPC		Goal: install fish screens on FCJ1, 2, and 3 diversions Benefit: Passage restoration Species: CH,SH,BT,CT	special use permit issued by USFS										
Idaho Anadromous Fish Screening Program (BPA Project #1994-015-00)	All anadromous HUCs	ongoing	2002	ongoing	IDFG	BPA/NOAA Fisheries	Fish entrainment into irrigation systems	Eliminated 3 fish screens, installed 8 drum screens, installed 35 passive pump screens.	Screen tenders maintain screens on a daily basis to assure proper functioning condition, duties include; observations of fish behavior and salvaging fish during irrigation shutdowns. Monitoring of screens for NOAA Fisheries flow criteria and underwater cameras to document screen integrity, investigations of tributaries for entrainment threats, PIT-tag remote sensing for entrainment and migration timing, and investigations into fish salvage and fish behind screen complexes.	X	X	X	X	X	X	X	X	X	X
Indian Creek, Salmon River Diversion Elimination and Enhancement (USBWP # 2002004)	Indian Creek, Tributary to Salmon River	complete	2002	2002	Private Landowner, BPA, LSWCD, NRCS, USBWP	BPA/Lemhi Soil and Water Conservation District	Hydrology–Low Flows, Discharge; Channel Structure–Fish Migration Barrier, Fish Migration Delays and Annual Channel Disturbance	Install an infiltration gallery to replace 4 diversions, also installed a pipeline to conserve 9 cfs.	Photo points. Implementation Monitoring.			X							

Project Name (BPA contract #)	Subbasin/ Location	Status	Begin Year	End Year	Implementing/ Principal Agency	Funding/ Sponsor	Cause of Limiting Factors	Project Description	Comments/ Results/ Monitoring	Geographic area of coverage									
										UPS	PAH	MSP	LE	MF	MF	MS	SFS	LOS	LSA
Lemhi River Diversion Elimination and Enhancement, L11 (USBWP # 2002007)	Lemhi River– Tributary to Salmon River	complete	2002	2002	Private Landowner, BPA, LSWCD, NRCS, USBWP	BPA/Lemhi Soil and Water Conservation District	Hydrology– Low Flows, Discharge; Channel Structure– Fish Migration Barrier, Fish Migration Delays and Annual Channel Disturbance	Consolidate flows from L12 and L13 into L11. Elimination of L12 and L13. Enhancement of L11. Conserved 12.5 cfs.	Photo points. Implementation Monitoring.				X						
Lemhi River Riparian Enhancement, Bowman (USBWP # 202006)	Lemhi River– Tributary to Salmon River	complete	2002	2002	Private Landowner, BPA, LSWCD, NRCS, USBWP	BPA/Lemhi Soil and Water Conservation District	Riparian Forest– Production of food and organisms and organic matter, shading, vegetative rooting systems and streambank integrity, and nutrient modification	1,300 feet of 4-wire riparian fence to protect riparian vegetation and spawning habitat.	Photo points. Implementation Monitoring.				X						
Morgan Creek, Salmon River Riparian Enhancement, Hawkins (USBWP # 2002010)	Morgan Creek tributary to Salmon River	complete	2002	2002	Private Landowner, BPA, LSWCD, NRCS, USBWP	BPA/Lemhi Soil and Water Conservation District	Riparian Forest– Production of food and organisms and organic matter, shading, vegetative rooting systems and streambank integrity, and nutrient modification	This project installed 2,900 feet of wire fence and two gates along Morgan Creek, a tributary to the Salmon River.	Photo points. Implementation Monitoring.	X									

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										UPS	PAH	MSP	LE	MF	MF	MS	SFS	LOS	LSA
Narrows Kayak Take-out Trail.	Salmon–Headwaters	complete	2002	2002	Sawtooth National Recreation Area	USDA FS		Goal: Construct ¼ mile of trail on severely deteriorated slope above Salmon River used as kayak take-out. Benefit: Streamside restoration Species: SK,CH,SH,BT,CT												
Pahsimeroi River Diversion Modification, Robbins (USBWP # 2002003)	Pahsimeroi River–Tributary to Salmon River	complete	2002	2002	Private Landowner, BPA, CSWCD, NRCS, USBWP	BPA/Custer Soil and Water Conservation District	Hydrology–Low Flows, Discharge; Channel Structure–Fish Migration Barrier, Fish Migration Delays and Annual Channel Disturbance	Moved point of diversion to an old location, eliminated 6 miles of ditch and conserved 6 cfs. Enhanced diversion to improve fish passage.	Photo points. Implementation Monitoring.		X								
Protect and Restore Little Salmon River P# O2029	Payette		2002	2003	Adams, Idaho	RAC Title II													x
Salmon River Diversion Elimination (USBWP # 2002009)	Salmon River	complete	2002	2002	Private Landowner, BPA, CSWCD, NRCS, USBWP, IDFG Screen Shop	BPA/IDFG Screen Shop/ Custer Soil and Water Conservation District	Hydrology–Low Flows, Discharge; Channel Structure–Fish Migration Barrier, Fish Migration Delays and Annual Channel Disturbance	Elimination of a diversion in the Salmon River and one in Ellis Creek by installing pivots and a sump pump. 12 cfs conserved.	Photo points. Implementation Monitoring.	X									

Project Name (BPA contract #)	Subbasin/ Location	Status	Begin Year	End Year	Implementing/ Principal Agency	Funding/ Sponsor	Cause of Limiting Factors	Project Description	Comments/ Results/ Monitoring	Geographic area of coverage									
										UPS	PAH	MSP	LE	MF	MF	MS	SFS	LOS	LSA
West Fork Morgan Creek, Salmon River Diversion Enhancement and Fish Screen (USBWP # 2002008)	West Fork Morgan Creek, tributary to Morgan Creek and the Salmon River	complete	2002	2002	Private Landowner, USFWS, CSWCD, NRCS, USBWP, IDFG Screen Shop	USFWS/IDFG Screen Shop/ Custer Soil and Water Conservation District	Hydrology–Low Flows, Discharge; Channel Structure–Fish Migration Barrier, Fish Migration Delays and Annual Channel Disturbance	Installation of an experimental bull trout fish screen in the Upper Morgan Creek.	Photo points. Implementation Monitoring.	X									
	Stibnite–EFSFSR		2002		USFS	$250k–FS National Fire Plan		Recontour 3-10 miles of road in upper EFSFSR. Restore 2-10 acres of mining-related disturbance.	Reduce sediment input to EFSFSR. Water quality monitoring (DEQ & FS) at established stations 3 times/year. Hydrolabs during summer/fall. Effectiveness monitoring (observed) once per month (minimum).								X		
Basin Creek, Lemhi River Water Quality Enhancement (USBWP # 2003012)	Basin Creek, Lemhi River–Tributary to Salmon River	complete	2003	2003	Private Landowner, BPA, ISCC, IDA, LSWCD, NRCS, USBWP	BPA/ISCC/Lemhi Soil and Water Conservation District	Sediment–Surface Erosion; Water Quality–Nutrients; Riparian Forest–Production of food and organisms and organic matter, shading, vegetative rooting systems and streambank integrity, and nutrient modification	This project relocated a cattle feeding operation that discharged above a salmon and steelhead spawning area. It was moved from along the creek to an upland bench. Fence was built, and off-channel water sites was developed.	Photo points. Implementation Monitoring.				X						
Biological Weed Control Project		Approved	2003	2003	Lemhi	RAC Title II													

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										UPS	PAH	MSP	LE	MF	MF	MS	SFS	LOS	LSA
Cascade RD Trailheads Improvement Projects P# O3001	Boise NF		2003	2004	Valley	RAC Title II											x		
Champion Creek CHC4 and CHC7 Consolidation	Salmon–Headwaters	complete	2003	2003	Idaho Fish and Game	NWPPC		Goal: consolidate diversions CHC4 and CHC7 and install fish screen. Benefit: Passage restoration Species: CH,SH,BT,CT	special use permit issued by USFS										
East Fork Salmon River Diversion Elimination and Enhancement, EF10/EF11/EF12 (USBWP # 2003005)	East Fork Salmon River	complete	2003	2003	Private Landowner, BPA, BOR, CSWCD, NRCS, USBWP	BPA/BOR/Custer Soil and Water Conservation District	Hydrology–Low Flows, Discharge; Channel Structure–Fish Migration Barrier, Fish Migration Delays and Annual Channel Disturbance	Consolidation of flows from EF11 into EF 12. Elimination of EF11. Enhancement of EF12 and EF13.	Photo points. Implementation Monitoring.	X									
East Fork Salmon River Riparian Enhancement, Ingram 3 (USBWP # 2003006)	East Fork Salmon River	complete	2003	2003	Private Landowner, BPA, CSWCD, NRCS, USBWP	BPA/Custer Soil and Water Conservation District	Riparian Forest–Production of food and organisms and organic matter, shading, vegetative rooting systems and streambank integrity, and nutrient modification	This project replaced 2,900 feet of existing, non-functioning wire fence and install 550 feet of new, wooden jack fence.	Photo points. Implementation Monitoring.	X									
East Fork Upper and Lower Cattle Allotments	Salmon–Headwaters	ongoing	2003	2013	Sawtooth National Recreation Area	USDA FS		Goal: improve degraded aquatic habitat Benefit: Species: CH,SH,BT,CT											
EFSFSR Dam Removal P# O3019	Payette		2003	2003	Valley	RAC Title II											x		

Project Name (BPA contract #)	Subbasin/ Location	Status	Begin Year	End Year	Implementing/ Principal Agency	Funding/ Sponsor	Cause of Limiting Factors	Project Description	Comments/ Results/ Monitoring	Geographic area of coverage									
										UPS	PAH	MSP	LE	MF	MF	MS	SFS	LOS	LSA
Habitat Improvement Project	Salmon	ongoing	2003	2004	IDFG	IDFG		Fencing for habitat protection											
Herd Creek, East Fork Salmon River Diversion Enhancement, HC1 (USBWP # 2003007)	Herd Creek tributary to East Fork Salmon River	complete	2003	2003	Private Landowner, BPA, CSWCD, NRCS, USBWP	BPA/Custer Soil and Water Conservation District	Hydrology–Low Flows, Discharge; Channel Structure–Fish Migration Barrier, Fish Migration Delays and Annual Channel Disturbance	This project will modify EFHC 1, an existing rock diversion structure on Herd Creek.	Photo points. Implementation Monitoring.	X									
Idaho Wildlife Habitat	Salmon	ongoing	2003	2004	IDFG	IDFG		WMA administration, development, and maintenance.											
Lemhi River Diversion Enhancement, L3 2 (USBWP # 2003011)	Lemhi River–Tributary to Salmon River	complete	2003	2003	Private Landowner, BPA, LSWCD, NRCS, USBWP	BPA/Lemhi Soil and Water Conservation District	Hydrology–Low Flows, Discharge; Channel Structure–Fish Migration Barrier, Fish Migration Delays and Annual Channel Disturbance		Photo points. Implementation Monitoring.				X						
Lemhi River Diversion Enhancement, L3a 2 (USBWP # 2003010)	Lemhi River–Tributary to Salmon River	complete	2003	2003	Private Landowner, BPA, LSWCD, NRCS, USBWP	BPA/Lemhi Soil and Water Conservation District	Hydrology–Low Flows, Discharge; Channel Structure–Fish Migration Barrier, Fish Migration Delays and Annual Channel Disturbance		Photo points. Implementation Monitoring.				X						

Project Name (BPA contract #)	Subbasin/ Location	Status	Begin Year	End Year	Implementing/ Principal Agency	Funding/ Sponsor	Cause of Limiting Factors	Project Description	Comments/ Results/ Monitoring	Geographic area of coverage									
										UPS	PAH	MSP	LE	MF	MF	MS	SFS	LOS	LSA
Pahsimeroi River Diversion Enhancement, P12 (USBWP # 1996012)	Pahsimeroi River tributary to Salmon River	complete	2003	2003	Private Landowner, BPA, CSWCD, NRCS, USBWP	BPA/Custer Soil and Water Conservation District	Hydrology–Low Flows, Discharge; Channel Structure–Fish Migration Barrier, Fish Migration Delays and Annual Channel Disturbance	Subproject 1 includes two pivots, consolidation of P 10 and P 11 into P 13.	Photo points. Implementation Monitoring.		X								
Pahsimeroi River Diversion Enhancement, P12 (USBWP # 2003008)	Pahsimeroi River tributary to Salmon River	complete	2003	2003	Private Landowner, BPA, CSWCD, NRCS, USBWP	BPA/Custer Soil and Water Conservation District	Hydrology–Low Flows, Discharge; Channel Structure–Fish Migration Barrier, Fish Migration Delays and Annual Channel Disturbance	Subproject 1 includes two pivots, consolidation of P 10 and P 11 into P 13.	Photo points. Implementation Monitoring.		X								
Pahsimeroi River Riparian Enhancement, Moen (USBWP # 2003003)	Pahsimeroi River	complete	2003	2003	Private Landowner, BPA, CSWCD, NRCS, USBWP	BPA/Custer Soil and Water Conservation District	Riparian Forest–Production of food and organisms and organic matter, shading, vegetative rooting systems and streambank integrity, and nutrient modification	The project installed 5700 feet of jack fence.	Photo points. Implementation Monitoring.		X								

Project Name (BPA contract #)	Subbasin/ Location	Status	Begin Year	End Year	Implementing/ Principal Agency	Funding/ Sponsor	Cause of Limiting Factors	Project Description	Comments/ Results/ Monitoring	Geographic area of coverage									
										UPS	PAH	MSP	LE	MF	MF	MS	SFS	LOS	LSA
Salmon River Diversion Elimination, McDaniels (USBWP # 2003002)	Salmon River	complete	2003	2003	Private Landowner, BPA, CSWCD, NRCS, USBWP, IDFG Screen Shop	BPA/IDFG Screen Shop/ Custer Soil and Water Conservation District	Hydrology–Low Flows, Discharge; Channel Structure–Fish Migration Barrier, Fish Migration Delays and Annual Channel Disturbance	Diversion Elimination by IDFG along the main Salmon downstream of Ellis. Sprinklers and a well will be installed. 3 cfs conserved.	Photo points. Implementation Monitoring.			X							
Salmon River Riparian Enhancement, Dowton (USBWP # 2003001)	Salmon River	complete	2003	2003	Private Landowner, BPA, CSWCD, NRCS, USBWP	BPA/Custer Soil and Water Conservation District	Riparian Forest–Production of food and organisms and organic matter, shading, vegetative rooting systems and streambank integrity, and nutrient modification	Fence 2.5 miles of the Salmon River and part of Ellis Creek.	Photo points. Implementation Monitoring.	X									
Salmon River Riparian Enhancement, Sell (USBWP # 2003009	Salmon River	ongoing	2003	2004	Private Landowner, BPA, USFWS, NOAA Fisheries, LSWCD, NRCS, USBWP	BPA/USFWS/NOAA Fisheries/Lemhi Soil and Water Conservation District	Riparian Forest–Production of food and organisms and organic matter, shading, vegetative rooting systems and streambank integrity, and nutrient modification	Installation of 5,300’ of fence along the outside of the existing riparian vegetation (the buffer would vary between 30’-60’) The fence would exclude cattle access to large islands in the river.	Photo points. Implementation Monitoring.			X							

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										UPS	PAH	MSP	LE	MF	MF	MS	SFS	LOS	LSA
Salmon River Riparian Enhancement, Zeigler (USBWP # 2003004)	Salmon River	complete	2003	2003	Private Landowner, BPA, CSWCD, NRCS, USBWP	BPA/Custer Soil and Water Conservation District	Riparian Forest–Production of food and organisms and organic matter, shading, vegetative rooting systems and streambank integrity, and nutrient modification	This project installed 1300 feet of jack fence.	Photo points. Implementation Monitoring.	X									
Sawtooth LRMP Revision	Salmon–Headwaters	ongoing	2003	2018	Sawtooth NF	USDA FS		Goal: Emphasis on terrestrial and aquatic restoration Benefit: Species: SK,CH,SH,BT,CT	Revised Forest Plan	x									
So. Fk. Salmon River Salmon Fishing Event P# O3006	Boise/Payette		2003	2003	Valley	RAC Title II											x		
South Fork Trail Rehab (Demo)Project P# O3024	Boise NF		2003	2003	Valley	RAC Title II											x		
Stibnite Forest Concepts (Demo Project) P# O3025	Boise NF		2003	2003	Valley	RAC Title II											x		
Yellow Pine #5 Hazardous Fuels Reduction P# O3002	Boise NF		2003	2004	Valley	RAC Title II											x		
	South Fork Meadow Creek (Stibnite–Blowout Cr)		2003		USFS	$286k+–FS National Fire Plan and AML/ECAP		Restore wet meadow. Reduce sediment contribution from eroding slopes									X		
	Profile Cr.		2003		USFS	proposed		Recontour 2-8 miles of road. Restore 2-10 acres of mining disturbance. Clean up mining-related debris.	Reduce sediment and metals input into Profile Cr. and EFSFSR.								X		
Copper Basin Solar Pump		Approved			Custer	RAC Title II					x								

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										UPS	PAH	MSP	LE	MF	MF	MS	SFS	LOS	LSA
Emergency Stream Restoration		complete			Lemhi	RAC Title II							x						
North Fork Drainage Sulfer Cinquefoil Project		Approved			Lemhi	RAC Title II						x							
Trail maintenance		Approved			Custer	RAC Title II													
Little Salmon River Riparian Restoration Planting Projects	Little Salmon	ongoing	1996	2004	NRCS, USFWS, private land owners, NOAA, SW reserve volunteers	NOAA, NRCS		Native plant species include: *Salix lasiandra, S. boothii, S. exigua, Spirea douglasii, Ribes aureum, Rhamnus alnifolia, Alnus sinuata, Rosa woodsii, Lonicera involucrata, Crataegus douglasii, Betula occidentalis, Cornus sericea*	Project Leader: Mary Dudley									x
Round Valley Creek Riparian Restoration Planting Projects	Little Salmon	ongoing	1996	2004	NRCS, USFWS, private land owners, NOAA, SW reserve volunteers	NOAA, NRCS		Native plant species include: *Salix lasiandra, S. boothii, S. exigua, Spirea douglasii, Ribes aureum, Rhamnus alnifolia, Alnus sinuata, Rosa woodsii, Lonicera involucrata, Crataegus douglasii, Betula occidentalis, Cornus sericea*	Project Leader: Mary Dudley									x
Fences (59)	Upper Salmon–East Fork	complete	2003	2003	BLM	BLM		maintenance or installation		x									
Pipelines (49)	Upper Salmon–East Fork	complete	2003	2003	BLM	BLM		maintenance or installation		x									
Exclosures (9)	Upper Salmon–East Fork	complete	2003	2003	BLM	BLM		maintenance or installation		x									
Springs (88)	Pahsimeroi	complete	2003	2003	BLM	BLM		maintenance or installation			x								
Pipelines (102)	Pahsimeroi	complete	2003	2003	BLM	BLM		maintenance or installation			x								
Waterholes (36)	Pahsimeroi	complete	2003	2003	BLM	BLM		maintenance or installation			x								
Troughs (6)	Pahsimeroi	complete	2003	2003	BLM	BLM		maintenance or installation			x								
Ponds, Dams, Reservoirs (4)	Pahsimeroi	complete	2003	2003	BLM	BLM		maintenance or installation			x								

Project Name (BPA contract #)	Subbasin/ Location	Status	Begin Year	End Year	Implementing/ Principal Agency	Funding/ Sponsor	Cause of Limiting Factors	Project Description	Comments/ Results/ Monitoring	Geographic area of coverage									
										UPS	PAH	MSP	LE	MF	MF	MS	SFS	LOS	LSA
Monday Camp Mine Waste Dump Reclamation	Salmon–South Fork	unknown	2004	2004	DEQ			The project will result in pulling back approximately 1,000 feet of metals-laden mine wastes from the E Fork S Fork Salmon R above the Glory Hole. Currently these wastes are at angle of repose, severely eroded, and produced tens of tons of metals-contaminated fine sediment to the lower watershed.									x		
Meadow Creek Spent Ore Disposal Area (Stibnite)	Salmon–S Fk	ongoing	2003	2006	DEQ			This project will result in development of soils and vegetation in a potential riparian zone along an engineered (armored) channel, and a 100 acre uplands area overlying historic metals laden mill tailings. The project will result in a reduction of the metals load being leached from the tailings, and it will stabilize slopes along the channel which are the source for fine sediment to Meadow Creek and the E Fork S Fork Salmon River									x		

Project Name (BPA contract #)	Subbasin/ Location	Status	Begin Year	End Year	Implementing/ Principal Agency	Funding/ Sponsor	Cause of Limiting Factors	Project Description	Comments/ Results/ Monitoring	Geographic area of coverage									
										UPS	PAH	MSP	LE	MF	MF	MS	SFS	LOS	LSA
East Fork John Day Creek Culvert Replacement Project	Project located in East Fork of John Day Creek (stream mile 0.4). UTM Zone: 11; UTME: 560697; UTMN: 5047136. East Fork John Day Creek is a tributary to John Day Creek. John Day Creek flows into Salmon River at river mile 72.4.	Complete	2004	2004	BLM			Replaced 3 foot diameter round culvert that was a fish passage barrier with an open bottom arch culvert that was 10 feet wide and 5 feet 3 inches high.								x			
Trail Creek Culvert Replacement Project	Trail Creek (stream mile 1.2). UTM Zone: 11; UTME: 553194; UTMN: 5002449. Trail Creek flows into the Little Salmon River at river mile 19.2,	Complete	2004	2004	BLM			Replaced a 3 feet 6 inches round culvert that was a fish passage barrier, with a partially buried 9 feet 4 inches wide squash culvert.											x
South Fork Salmon River fishing access improvements	South Fork Salmon River (Cabin Cr to Goat Cr)	Complete	2002	2003	IDFG	USFS, IDFG, Southwest Idaho Resource Advisory Council		Recreational improvements made for angler access to sport chinook fishery on South Fk Salmon River; expanded parking and camping, improved trails to river; cost-share among USFS, IDFG, and Southwest Idaho Resource Advisory Council funds									x		

Project Name (BPA contract #)	Subbasin/ Location	Status	Begin Year	End Year	Implementing/ Principal Agency	Funding/ Sponsor	Cause of Limiting Factors	Project Description	Comments/ Results/ Monitoring	Geographic area of coverage									
										UPS	PAH	MSP	LE	MF	MF	MS	SFS	LOS	LSA
Meadow Cr restoration 319 Grant	East Fk S Fk Salmon River	ongoing	2003	2003	DEQ	EPA, IDEQ		Removed old diversion structure (part of historical mine) and plant riparian vegetation to stabilize channel and prevent channel capture of contaminated tailings; funding provided by EPA (319 Grant) and IDEQ									x		
Lemhi River Subproject 319-01	Lemhi River–Tributary to Salmon River	Complete	2002	2003	DEQ/Idaho Soil Conservation Commission	DEQ 319	Water Quality	Fencing , Diversion berms, Pipe line, Water troughs, Well					x						
Lemhi River Subproject 319-02	Lemhi River–Tributary to Salmon River	Complete	2002	2003	DEQ/Idaho Soil Conservation Commission	DEQ 319	Water Quality	Fencing , Diversion berms, Pipe line, Water troughs, Well					x						
Lemhi River Subproject 319-03	Lemhi River–Tributary to Salmon River	Complete	2002	2003	DEQ/Idaho Soil Conservation Commission	DEQ 319	Water Quality	Fencing , Diversion berms, Pipe line, Water troughs, Well					x						
Western Watersheds Project (E. Fork Salmon River)	E. Fork Salmon	Complete				DEQ 319	Water Quality			x									
Western Watersheds Project (Island Stabilization)	E. Fork Salmon	Complete				DEQ 319	Water Quality			x									
Garden Creek Preserve Habitat restoration	Nez Perce County				The Nature Conservancy, Partners for Fish and Wildlife Project;	USFWS												x	
French Creek Riparian habitat restoration	Salmon River				The Nature Conservancy, Partners for Fish and Wildlife Project;	USFWS				x									
Partners for Fish and Wildlife	UPS		2001	2016	USFWS	USFWS		Sagebrush steppe restoration on 35 acres of private land	Property has been reseeded using native grasses, forbs, and shrubs. Monitoring and evaluation is continuing.	x									

Project Name (BPA contract #)	Subbasin/ Location	Status	Begin Year	End Year	Implementing/ Principal Agency	Funding/ Sponsor	Cause of Limiting Factors	Project Description	Comments/ Results/ Monitoring	Geographic area of coverage									
										UPS	PAH	MSP	LE	MF	MF	MS	SFS	LOS	LSA
Partners for Fish and Wildlife	MSP		2003	2018	USFWS	USFWS		Riparian protection; upland and riparian restoration	Portions of the property have been reseeded/replanted. Fence construction is in progress. Monitoring and evaluation is in progress			x							
Fisheries Restoration and Irrigation Mitigation Act	PAH		2004	2004	USFWS,BLM, NRCS	USFWS		Falls Creek diversion and screen installation	Cooperate with BLM, NRCS, and other to reconnect Falls Creek to Big Springs Creek in the Pahsimeroi drainage.		x								
Landowner Incentive Fund	PAH		2004	2004	USFWS,BLM, NRCS	USFWS		Falls Creek on-farm irrigation improvements	Cooperate with BLM, NRCS, and others to increase flows in Falls Creek by improving irrigation efficiency		x								
										161	51	78	##	27	28	23	83	29	37