

## **Appendix H: Inventory of Recently-Completed Projects**



Start	End	Funding	ID	Title	Sponsor	Focus	Subbasins				Strategies								LFA						
							1	2	3	4	1	3	6	8	2	4	5	3	7	8	1	2	4	5	7
2001		BPA	21034	Colville Tribes Restore Habitat for Sharp-tailed Grouse	CCT-FWD	W	UC	SPO	RW	SP	1	3	6	8	2	4	5	3	7	8	1	2	4	5	7
2001		BPA	21035	Phalon Lake Native Redband Rainbow trout Trap Construction and O & M	WDFW	R	UC	SPO			4	8						8	1	2	3	4	5		
2002		BPA	24001	Lake Pend Oreille Predation Research	IDFG	R	PO				6	8						5	7						
2002		BPA	24003	Acquire and conserve high priority bull and westslope cutthroat trout habitat in Trestle Creek.	IDFG	R	PO				2							4	3						
2002		BPA	24004	Pend Oreille/Priest Exotic Fish Species Suppression and Native Fish Protection	IDFG	R	PO				8	6						5							
2002		BPA	24006	Pend Oreille Erosion Abatement and Landform Restoration	IDFG	R	PO				1	2						4							
2002		BPA	24008	Genetic Inventory of Bull Trout and Westslope Cutthroat Trout in the Pend Oreille Subbasin	KT	R	PO				6							5							
2002		BPA	24020	Center for GIS Analysis and Information in the Coeur d'Alene Subbasin	CDA Tribe	W/R	CDA				6							7							
2002		BPA	24025	Pend Oreille Subbasin Native Westslope Cutthroat Population Study	WT	R	PO				6							7							
2000	2001	BPA	8503800 <sup>i</sup>	Colville Tribal Fish Hatchery	CCT	R	UC	SP	RW	SPO	4	6	8	1				5	6	8	1	2	3	4	7
1992	2000	BPA	9001800	Habitat Improvement - Lake Roosevelt	CCT	R	UC	SPO	SP	RW	1	2	3	6	8			1	2	3	4	7	8		
1987	2002	BPA	9004400	Fisheries Enhancement -- Coeur d'Alene Reservation	CDA Tribe	R	CDA	SPO			1	2	4	8				2	3	8					

Start	End	Funding	ID	Title	Sponsor	Focus	Subbasins				Strategies								LFA								
							1	2	3	4	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1999	2002	BPA	9004401	Lake Creek Land Acquisition and Enhancement	CDA Tribe	W	CDA					1	2							8	2	3	4				
2000	2002	BPA	9004402	Coeur d' Alene Tribe Trout Production Facility	CDA Tribe	R	CDA	SPO				4	8							8							
1998	2001	BPA	9104600	Spokane Tribal (Galbraith Sprgs) Hatchery - O&M	STOI	R	SPO	UC				4	8							8							
1998	2001	BPA	9104700	Sherman Creek Hatchery - O&M	WDFW	R	UC	SPO				4	8							8							
1998	2002	BPA	9106000	Kalispel Pend Oreille Wetlands Wildlife Mitigation Project	KT	W	PO					1	2							3	4						
1998	2000	BPA	9204800	Hellsgate Big Game Winter Range	CCT	W	UC	RW	SP	SPO	6	7	1	2	4					4	1	2	3	4	7		
1992	ongoing	BPA	9206100	Albeni Falls Wildlife Mitigation Project	IDFG, KT and Albeni Falls Workgroup	W	PO	CDA	SPO			1	2							1	3	4					
1992	ongoing	BPA	9206100	Albeni Falls Wildlife Mitigation Project	IDFG, KT and Albeni Falls Workgroup	W	PO	CDA	SPO			1	2							2	3	4	8				
1998		BPA	9305800	WDFW - Washington Wildlife Mitigation Agreement	WDFW	W						1	2	5	6	8				3	4	7					
1998	2001	BPA	9404300	Lake Roosevelt Monitoring / Data Collection Program	STOI	R	UC	SPO	SP			6	5	8						8	2	3	4	5	7		
1985	2002	BPA	9404700	Lake Pend Oreille Fishery Recovery Project	IDFG	R	PO					1	6	8						4	5	7					
1998	2002	BPA	9500100	Kalispel Tribe Resident Fish Project	KT	R	PO					1	3	8						1	2	3	4	5	7		
1998	2001	BPA	9500900	Net Pen Rainbow Trout Above Grand Coulee Dam	LRDA	R	UC	SPO				4	8							8							
1998	2001	BPA	9501100 <sup>ii</sup>	Chief Joseph Kokanee Enhancement Project	CCT	R	RW	UC	SP	SPO	4	6	8	1	2	3	5	1	5	7	2	3	7	8	4		

Start	End	Funding	ID	Title	Sponsor	Focus	Subbasins				Strategies								LFA													
							1	2	3	4	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18				
1999	2001	BPA	9502700	Assess Limiting Factors of the Lake Roosevelt White Sturgeon Population	STOI	R	UC	SPO					4	6	5	8									1	2	3	4	5	6	7	
1999	2000	BPA	9506700 <sup>iii</sup>	Colville Confederated Tribes Performance Contract (Credits For Habitat)	CCT	W																										
1998	2000	BPA	9700300	Box Canyon Watershed Project	KT	R	PO						3												1	2	3	4	5			
1998	2002	BPA	9700400 <sup>v</sup>	Resident Fish Stock Status Above Chief Joseph and Grand Coulee Dams	KT	R	RW	UC	SPO	SP			1	2	4	3	6	8							1	2	3	4	5	6	7	8
1999	2000	BPA	9800300	O & M Funding of Wildlife Habitat on STOI Reservation for Grand Coulee Dam	STOI	W	UC	SPO					1	2	3	5	6								1	2	3	4	7			
		BPA	199001800 <sup>v</sup>	Evaluate Rainbow Trout/Habitat Improvements Of Tributaries To Lake Roosevelt	CCT	R	SP	UC	RW				1	2	3	6	8								1	2	3	4	7	8		
2001		BPA	199106200	Spokane Tribe of Indians Wildlife Mitigation Project	STOI	W	SPO	UC					1	2	3	5	6								1	3	4	7	2			
		BPA	199204800	Hellsgate Big Game Winter Range Operation And Maintenance Project	CCT-FWD	W	UC	SPO	RW				1	2											3	4	7					
2002		BPA	200204500	Wetland/Riparian Protection, Restoration, Enhancement and Maintenance in the Coeur d'Alene Subbasin	CDA Tribe	W/R	CDA						1	2	3	5	6								2	3	8	4				
2001	2001	Non-BPA	CDAR DEMO-MS	(Streambank Stabilization)	KSSWCD	R	CDA						1												2	3						





Start	End	Funding	ID	Title	Sponsor	Focus	Subbasins				Strategies				LFA											
							1	2	3	4																
1998		Non-BPA		A Chronicle of Latah (Hangman) Creek: Fisheries and Land Use	Spokane County Conservation Dist	R	SPO					5					7									
		Non-BPA		annual monitoring fish habitat	USFS	R	PO					6					7									
		Non-BPA		Annual monitoring of wildlife populations (game and non-game).	WDFW	W	SPO					6					7									
2001	2001	Non-BPA		Armoring of Livestock Crossings on Middle Branch Le Clerc Ck.	USFS	R	PO					1	2				2	3								
1996		Non-BPA		Best Management Practices (BMPs) for timber harvest Trestle Creek, South Gold Ck North Gold, Granite, Grouse, Pack R,	Trestle Creek Local Working Committee Lakeview Local Working Committee and IDL	R	PO					1					2	3								
	1997	Non-BPA		Biological Assessment of Hangman (Latah)Creek Watershed	Spokane County Conservation Dist	R	SPO					6					3	4								
	2004	Non-BPA		Bismark Meadows Wetland Restoration	NRCS	W	PO					1	2				4									
				Brett Creek Watershed Project	USFS	R/W	CDA					1					3									
	2003	Non-BPA		Brown Kettle River Bank Stabilization	FERRY CONS DIST	R	UC					1					2	3								

Start	End	Funding	ID	Title	Sponsor	Focus	Subbasins				Strategies								LFA								
							1	2	3	4	1	2	3	4	5	6	7	8	9	10	11	12	13	14			
		Non-BPA		build bypass road and reclaim existing road LeClerc Ck	USFS, Stimson Lumber Co., the KT, and Pend Oreille County Roads	R/W	PO					1	2							1	2	3	4				
				Bunker Hill Water Monitoring	EPA	R	CDA					1								3							
1986	2003+	Non-BPA		Cabinet Gorge Hatchery	IDFG	R	PO					4								5	7						
		Non-BPA		Caribou relocation project	WDFW, IDFG, USFS, and British Columbia	W	PO					8								8							
1994	1995	Non-BPA		Centennial Clean Water Act Shoreline Stabilization Demonstration Project	KT	R/W	PO					1								2	3						
				CERCLA Removal Projects at Rose and Thompson Lakes	EPA	R	CDA					1								3							
1996		Non-BPA		channel restoration North Gold Ck	USFS	R	PO					1								3							
		Non-BPA		Channeled Scablands Focus Area Phase I Project	MANY	W	SPO					9								9							
?	On-going	ACOE	vi	Chief Joesph Wildlife Mitigation (10 foot pool rise)	CCT		RW																				
		Non-BPA		closed roads lower PO subbasin	USFS	R/W	PO					9								9							
				Coeur d'Alene River/Chain Lakes Land Exchange	USFS	W	CDA					2								4							
1997		Non-BPA		Color fish identification guide	IDFG, Lake Pend Oreille Idaho Club	R	PO					5								7							
	2002	Non-BPA		Conservation Plan for Fish Creek	Cocolalla Lake Assoc	R/W	PO					1								3							



Start	End	Funding	ID	Title	Sponsor	Focus	Subbasins				Strategies				LFA						
							1	2	3	4											
2000		Non-BPA		Easements acquired Trestle Creek	Avista Settlement agreement	R	PO					2					4				
2001	2005	Non-BPA		East Branch Road Removal and Reclamation Project	Stimpson Timber Co., USFS, POPUD, WDFW, WA IAC, KT, Fed DOT	R/W	PO					1	8				1	2	3		
1998		Non-BPA		Education and enforcement to protect bull trout.	IDFG, Avista, TU	R	PO					5					7				
1998	On-going	Non-BPA	vii	enforce fish and Wildlife regulations.	CCT & WDFW	R/W	RW					7					8				
1998		Non-BPA		excavated channel through drawdown zone Gold Ck	IDGF	R	PO					1					1				
1999	2002	Non-BPA		Exclosure Fencing of Le Clerc Ck.Riparian Habitat	USFS	R	PO					1	2				2	3			
		Non-BPA		FCD Native Plant Nursery	FERRY CONS DIST	W/R	UC					1					3	4			
	2001	Non-BPA		Fencing creek from livestock Hoodoo Ck	NRCS and landowner	R	PO					1					2	3			
	2003	Non-BPA		FERRY COUNTY KETTLE RIVER PARK	FERRY CONS DIST	R	UC					1					3				
	2002	Non-BPA		Fischer Riparian Improvement	FERRY CONS DIST	W/R	UC					1					3				
		Non-BPA		fish and water quality assessments in the Lower Clark Fork	USGS	R	PO					6					7				
				Fish Fry Wood Removal Project	USFS	R	CDA					1					3				

Start	End	Funding	ID	Title	Sponsor	Focus	Subbasins				Strategies				LFA						
							1	2	3	4											
1997		Non-BPA		Fish information pamphlet	IDFG, USFS, Idaho AFS	R	PO				5					7					
	1994	Non-BPA		fish ladder in impassable flume Strong Ck	IDFG & TU	R	PO				1					1					
				Fish Wetland Reserve Program Restoration Project	NRCS	W	CDA				1					3					
2001	2002	Non- BPA		Food habits of picivoros fish in CDA Lake	CDA Tribe, Avista	R	CDA				6	8				5	7				
	2001	Non-BPA		Forest riparian buffer along Careywood Creek	NRCS	R/W	PO				1					3					
	2002	BPA		Genetic Inventory of Bull Trout and Westslope Cutthroat Trout in the Pend Oreille Subbasin	KT and WDFW	R	PO				6					7					
1996	2000	Non-BPA, BPA?		Genetic Inventory of Redband Trout and Westslope Cutthroat Trout in the San Poil Subbasin	USFS, CCT	R	SP				6					5					
1996	2000	Non-BPA		Genetic Inventory of Redband Trout and Westslope Cutthroat Trout in the U. C. Subbasin	USFS	R	UC				6					5					
		Non-BPA		Graham Lake Native Trout / Remote Site Incubator Research	WDFW	R	UC				4	5	6	8		1	2	3	4	5	7
				Grouse Creek/Mary Mix Land Exchange	USFS	W	CDA				2					4					
		Non-BPA		habitat assessments and snorkeling surveys in tributaries to Box Canyon Reservoir	PO PUD, KT, WDFW	R	PO				6					7					



Start	End	Funding	ID	Title	Sponsor	Focus	Subbasins				Strategies				LFA									
							1	2	3	4														
		Non-BPA		Hangman Creek Riparian/Sediment Reduction Projects	Spokane County Conservation Dist	R	SPO					1						2	3	4				
1995	1999	Non-BPA		Hangman Creek Subwatershed Improvement Project Report	Spokane County Conservation Dist	R	SPO					9						9						
1998	2001	Non-BPA		Hangman Creek Water Quality Network: A Summary of Sediment Discharge and Continuous Flow Measurements	Spokane County Conservation Dist	R	SPO					9						9						
1994		Non-BPA		Harvest management of lake trout	IDFG, Lake Pend Oreille Idaho Club	R	PO					8						5						
1996		Non-BPA		harvest of bull trout eliminated	IDFG	R	PO					5	7					7						
	2003	Non-BPA		Hydrology of the Hangman Creek Watershed	Spokane County Conservation Dist	R	SPO					5	6					2	7	3				
		Non-BPA		IDFG Albeni Cove Wetlands Restoration	IDFG	W	PO					1						3	4					
1996	1999	Non-BPA		improve conditions for bull trout in Sullivan Springs	IDFG	R	PO					1						7	3					





Start	End	Funding	ID	Title	Sponsor	Focus	Subbasins							Strategies							LFA						
							1	2	3	4	1	2	3	4	5	6	7	1	2	3	4	5	6	7			
Ongoing		Non-BPA	ix	Monitor and Enhance the Lakes and Streams	STOI, WDFW, CCT	R	UC					1	2	3	4	5	6	7	1	2	3	4	5	6	7		
Ongoing		Non-BPA	ix	Monitor and Enhance the Lakes and Streams	STOI, WDFW, CCT	R	SP					1	2	3	4	5	6	7	1	2	3	4	5	6	7		
Ongoing		Non-BPA	ix	Monitor and Enhance the Lakes and Streams	STOI, WDFW, CCT	R	RW					1	2	3	4	5	6	7	1	2	3	4	5	6	7		
		Non-BPA	ix	Monitor and evaluate the effect instream structures have on the freshwater macroinvertebrate community.		R	PO					6							7								
		Non-BPA		monitor range condition, utilization and range improvements	USFS	W	PO					9							9								
		Non-BPA		monitor water quality in the Upper Pend Oreille	IDEQ	R	PO					6							2	7							
		Non-BPA		Moore's Creek Livestock Fencing & Tree Planting	NRCS	R/W	PO					1							3								
	1999	Non-BPA		native fish restoration project, tributary restoration in Idaho; tributary restoration work in Montana; minimum flows in the lower Clark Fork River; recreational fish enhancements; habitat enhancement in the lower Clark Fork River in Idaho; and fisheries management assistance funding	Avista Settlement agreement	R	PO					8	1	2	6				3	4	7						
1999	1999	Non-BPA		Obliteration of Deemer Creek Road	USFS	R	PO					1							2								
	2001	Non-BPA		PALMANTEER FENCING PROJECT	FERRY CONS DIST	R	UC					2							3	2							

Start	End	Funding	ID	Title	Sponsor	Focus	Subbasins				Strategies					LFA										
							1	2	3	4																
1991	ongoing	BPA		Pend Oreille Wetlands Wildlife Mitigation Project	KT	W	PO					1	2						3	4						
2001		Non-BPA		Phalon Lake Native Redband Rainbow trout Trap Construction and O & M	WDFW	R	UC	SPO				4	8						8	1	2	3	4	5		
	1996	Non-BPA		Planted riparian areas in Grouse Creek	USFS and Coldwater Creek Company.	R	PO					1							3							
		Non-BPA		Pre-Settlement Vegetation of the Hangman Creek Watershed and Soil Loss	Spokane County Conservation Dist	R	SPO					9							9							
	2000	Non-BPA		private land purchased Granite Ck	IDFG, Avista, LPOIC	R	PO					2							2	3						
	1996	Non-BPA		Pulled culverts, improved cross drainage, and improved stream crossings Trout Ck	USFS	R	PO					1							2	3						
1998	2000	Non-BPA		reconstruction of channelized stream Twin Ck	IDFG, the USFWS, Avista, TU, Ruen Family Trust, Bonner County, and Crown Pacific	R	PO					1							3							
	1997	Non-BPA		Recontoured road segments Lightening Ck	USFS	R	PO					1							2	3						
		Non-BPA		Reed Canary Grass management project	WSU and the KT	W	PO					9							9							



Start	End	Funding	ID	Title	Sponsor	Focus	Subbasins				Strategies				LFA												
							1	2	3	4																	
		Non-BPA		Road Surface Treatment	Lincoln County Public Works	R	SPO	UC					2					2									
		Non-BPA		Road Surface Treatment	Lincoln County Public Works	R	SPO	UC					2					2									
	2003	Non-BPA		Roberta Creek Restoration	FERRY CONS DIST	W/R	UC						2					2	3								
		Non-BPA		Rocky Mtn Elk – WDFW Monitoring Project	WDFW	W	SPO						6					7									
2001	2004	Non-BPA		Santa Creek Streambank Protection and Stability Project	BSWCD	W/R	CDA						1					2	3								
1997	1999	Non-BPA		Sherman Ck Restoration	USFS	R	UC						1					2	3								
		Non-BPA		Sherman Creek Implementation Project	FERRY CONS DIST	W/R	UC						9					9									
		Non-BPA		Sherman Creek Wildlife Area	WDFW	W	UC						1	2				1	3	4							
1997	ongoing	Non-BPA		Shoreline Assistance Program	KT	R/W	PO						1					2	3								
1999	2002	Non-BPA		Shoreline stabilization projects part of 1998 Settlement with Pend Oreille PUD	KT, WDFW, USFWS, Pend Oreille PUD, USFS	R/W	PO						1					2	3								
				St. Joe Bank Stabilization EQIP Projects	NRCS	R/W	CDA						1					3									
				St. Joe River WRP Projects	NRCS	W	CDA						1					3									
1998		Non-BPA		Stabilized eroding lakeshore	NRCS	R	PO						1					2	3								
		Non-BPA		State regulation enforcement of fish and wildlife laws.	WDFW	W/R	SPO						7					7									
				Steamboat Creek Fish Restoration Project	USFS	R/W	CDA						1					3									





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<sup>iv</sup> This project is design to compile existing data and collect information to fill data gaps and warehouse and distribute these data for fish and fish habitat within the blocked area.

<sup>v</sup> Project has primarily focused on the San Poil watershed but has done some work in the Upper Columbia and the scope allows for work in RW and SPO but no projects in the last 5-years have been conducted in either subbasin.

<sup>vi</sup> This project mitigates for lost wildlife habitat from the 10 foot pool raise along Lake Rufus Woods.

<sup>vii</sup> These are regulatory functions that support fish and wildlife projects

<sup>viii</sup> This project was designed to replace fish entrained at Grand Coulee Dam and was short term emergency funding for 1 year. Primary focus is UC with minimal impacts on SPO and SP per review of NPCC web-site.

<sup>ix</sup> Each entity does this regularly as part of their activities.

**\* Table of strategy codes**

<b>Number</b>	<b>Strategy</b>
1	Habitat Improvement or Restoration
2	Habitat Protection/acquisition
3	Watershed Planning/recovery planning
4	Hatcheries/supplementation/augmentation
5	Education/Outreach
6	Research/Monitoring/Evaluation
7	Enforcement and protection
8	Population management

\*\* Table of Limiting Factor Codes

NUMBER	LIMITING FACTOR	EXAMPLES
1	Barriers or impediments to fish and/or wildlife passage	For fish, includes upstream fish passage barriers (such as dams and culverts) as well as entrainment. For wildlife, includes loss of connectivity as a result of highways, urban development, etc.
2	Water quality or quantity	Includes low flow, high flow, low temperature, high temperature, pollutants, oxygen
3	Physical structure of habitat (habitat quality)	For fish, includes riparian condition, channel stability, habitat diversity, fine sediment. Also includes conversion of rivers to reservoirs.
		For terrestrial species, includes lack of key habitat features for target species, noxious weed control, etc.
4	Habitat quantity	Includes acquiring management rights to land.
		Also includes modifying dam operations to make more fish habitat available
5	Competition/predation and/or hybridization	Competition/predation and/or hybridization
6	Disease	Disease
7	Lack of information	Not actually a limiting factor, but a reason why we do studies
		Monitoring and evaluation
8	Indirect mitigation	In some cases the limiting factors cannot be corrected directly, such as the limiting factors that are created by Grand Coulee Dam. This is the category for projects that are designed to mitigate for these types of limiting factors. Hatcheries are the primary example.