Inventory

The goals of the *Inventory of Existing Activities* are to demonstrate: current management direction, existing or imminent resource protections, and current strategies implemented through specific projects. Information was collected on projects that have been completed in the last 5 years or those expected to be completed in the near future. In addition, plans, programs and legal requirements were collected describing existing legal requirements such as local ordinances, plans and programs whose purpose is to protect water resources, fish or wildlife species or habitats, including areas protected legally.

1. Methodology

A survey was developed and used in order to reach a broad audience and gather information on completed and ongoing projects.

The survey was emailed to approximately 100 individuals in over 70 organizations. The list of individuals and organizations was initially developed by compiled contact lists created by the Wy'East Resource Conservation and Development (Wy'East RC & D) and the Deschutes Coordinating Group. The list of individual and organizations was refined and expanded by querying (through email, phone calls and personal contact) numerous individuals with knowledge of basin projects to ensure all critical individuals and organizations were on the list. A significant effort was made to identify a point person in each organization to send the survey. The list was continually updated and added to as new information was received. The participant list was also refined as individuals doing the work were identified. Constant updating of the contact list was critical.

Survey participants provided information on several types of projects:

- Agricultural/Rangeland Improvements: riparian fencing, guzzlers, tailwater recovery ponds, filter strips, sediment basin and terraces.
- Fish Passage Improvement projects: fish screens, ladders, infiltration galleries.
- In-stream Flow Restoration: canal piping or lining project, water right acquisition, leasing.
- In-stream Habitat Restoration: large woody debris, fish habitat improvements.
- Monitoring.
- Road Abandonment/Restoration.
- Stream bank restoration: riparian plantings, floodplain improvements.
- Upland Habitat Restoration: forest health, juniper removal, range seeding.
- Wetland Restoration projects.
- Other.

They also provided information on the project's funding source, landowner, budget, status, start and end date, size and the limiting factors they were addressing. In addition, they supplied a brief description of the project and the results.

Survey Results

Thirty-nine individuals from 23 organizations responded to the survey with projects (Appendix --). There was some overlap within agencies with individuals responding regarding a particular project type or for a district or area. Lack of participation occurred primarily when a organization had no projects or programs to report. Some of the larger agencies admitted that the number of projects they provided was far fewer than they actually did, but providing limited information was the best they could do at the time given other responsibilities. By July 31, 2003, over 750 records were included in the Access database and over 1,500 points identified in GIS. Some records have numerous points associated with them. In addition, over 400 projects were entered from the USFS Interagency Restoration Database (IRDA).

2. Existing Plans and Programs

Existing plans and programs affecting fish, wildlife and ecosystem resources in the Deschutes subbasin are shown in Table I.1.

3. Existing Restoration and Conservation Projects

Many existing on-the-ground restoration and conservation projects that have, or are, being implemented in the Deschutes Subbasin are listed on Table I.2 and shown on Map 29. These and other projects have added substantial benefit to fish and wildlife resources in the Deschutes Subbasin, as well as improving overall watershed health.

A number of other projects were not included on Table 1.2. or mapped because they were implemented over five years ago. These projects — including restoration projects implemented on the ground in the Trout Creek system for over 20 years — have significantly benefited habitat conditions. Other beneficial habitat restoration projects were also excluded from the inventory because of time constraints. These projects should be added to the Inventory in the near future.

4. Gap Assessment of Existing Protection, Plans, Programs and Projects

The following discussion describes past and current fish and wildlife habitat and watershed restoration strategies implemented in the subbasin, there success and potential for application in other areas. Maps 30-33 show the relationship between past and on-going restoration efforts, priority areas for restoration, and areas where changes in wildlife habitat have occurred. Unfortunately, because of restricted time and the size of the Deschutes Subbasin, the gap assessment does not adequately assess links the success and limitations of past and present restoration efforts in all the reaches identified as high priorities for restoration. Instead, the gap assessment is limited to evaluating project activity in the ten high priority habitat restoration project areas identified during the subbasin planning process. These areas are scattered across the subbasin. Most of these proposed restoration project areas have had some level of past and/or ongoing restoration work. Information will continue to be collected as new

management activities are identified and proposed for implementation to ensure linkage to other habitat restoration efforts.

The Trout Creek Fish Habitat Restoration Project Area is a high priority area that has been a primary target of habitat restoration efforts since 1986. The primary focus of this project has been stream and fish habitat restoration, with a top-of-the-watershed down approach. There are 170 miles of perennial and intermittent streams in the Trout Creek watershed. To date approximately 70 miles of stream have been fenced to exclude livestock and restore riparian vegetation. Restoration includes placement of nearly 4,800 log or rock structures in the channel and treatment of 21,000 feet of eroding streambank. In addition, all irrigation diversions have been screened or replaced with infiltration galleries. More than 5,600 acres of cropland in this watershed have been enrolled in the Conservation Reserve Program and converted to permanent grassland. Over 13 miles of roads have been scarified and seeded to reduce stream sedimentation and more than 50 upland water and sediment basin have been installed to slow storm runoff and increase water absorption.

The 2002 Trout Creek Watershed Assessments concluded the highest priority for riparian management would be to protect areas currently in good condition. The assessment also concluded that livestock exclosures that have been constructed within the watershed over the past 15 years appear effective in enhancing riparian conditions and should continue to be maintained (Runyon et al. 2002). Appreciable increases in numbers of summer steelhead spawners in recent years seem to indicate that past habitat restoration has produced some fish benefits (French and Pribyl 2004).

The EDT fish habitat analysis reported that the Trout Creek system has the following habitat deficiencies: summer stream flow, water temperature extremes, and channel instability and habitat diversity. This evaluation emphasizes the need for continued riparian and stream channel restoration, while also investigating the possibility of restoring natural water storage capabilities in headwater valleys and meadows for late season flow and temperature moderation. This report also indicates the importance of upland watershed treatments that are designed to slow runoff and increase water retention. The watershed assessment emphasized the need for baseline resource data to facilitate monitoring of new and ongoing projects.

The Squaw Creek Instream and Riparian Habitat Restoration Project Area is identified as a high priority project area because of the potential for re-introduction of anadromous fish into the system. Collaborative habitat restoration projects have been underway for a number of years. The primary emphasis has been on summer flow and instream and channel restoration. To date more than 48,000 feet of open irrigation ditches or canals have been converted to pipe with an cumulative savings of 1,850 to 2,275 acre feet of water annually and an increase in summer stream flow of up to 7.7 cfs. There has been some road obliteration to reduce stream sediment. Nearly 1,000 acres, including stream frontage, have been acquired and converted to natural preserves or added to the Ochoco National Grasslands for habitat restoration. ODEQ is also actively collecting water quality data for the ongoing TMDL process.

The EDT fish habitat analysis reported that the Squaw Creek system has the following habitat deficiencies: summer stream flow, water temperature extremes, sedimentation, and channel stability and habitat diversity. This evaluation emphasized the need for riparian and stream channel restoration, as well as additional water conservation or

acquisition of water rights to increase low seasonal flow. Channel stabilization measures would help to reduce sediment loading, while increasing stream shading, natural water table recovery and instream habitat complexity. There is also a need for detailed baseline resource assessment data and monitoring and evaluation of the effectiveness of ongoing and planned projects for habitat recovery and increased fish and wildlife production.

Projects implemented in the *Middle and Upper Deschutes River Instream and Riparian Habitat Restoration Project Area* would substantially increase habitat for redband trout and bull trout. Past recovery activities include the lining of more than 22 miles of irrigation ditches and canals to reduce water loss. Nearly 11 miles of the upper river has been treated to increase instream structure and stabilize streambanks. Riparian and wetland restoration is underway on nearly 140 acres adjacent to the upper river. Approximately 8,000 acre feet of water have been leased annually to supplement low stream flow. ODEQ water quality monitoring for the TMDL process is ongoing. Instream structural treatments have been challenging in the upper river because of the extreme fluctuations in flow, but have generally been effective in collecting fine sediment and reducing bank erosion. Planting of willow in riparian areas resulted in 5-25% survival.

The QHA habitat analysis indicated that the Middle and Upper Deschutes had the following habitat deficiencies: low summer or winter flow, flow extremes, stream temperature extremes, fish passage, sedimentation, instream habitat diversity and streambank stability. This evaluation identified the need for seasonal flow modifications, including reductions in extreme flow, which would help resolve instream habitat complexity, seasonal low flow, channel stability and sedimentation issues. Water conservation measures, including the lining or piping of irrigation canals, appears to be a valid technique for restoring some river flow and reducing peak flows. Fish passage at five artificial structures needs to be addressed. There is also a need for detailed baseline resource assessment data and continued monitoring and evaluation of the effectiveness of ongoing and planned projects for habitat recovery and increased fish and wildlife production.

The *Lower Crooked River Instream and Riparian Habitat Restoration Project Area* is another high priority project area because of the potential for re-introduction of anadromous fish into the system, as well as benefits to redband and bull trout and a variety of wildlife species.

There are approximately 104 miles of stream in the project area, with approximately fourteen miles of the lower river confined to a narrow basalt canyon. Habitat restoration to date has included riparian restoration along approximately 14 miles of stream; development of off-stream livestock watering sites affecting a mile of stream; 5+ acres of riparian/wetland restoration; restoration/relocation of two miles of stream channel: and some fish passage and screening at water diversion structures. Project monitoring indicates that riparian vegetation has responded favorably to protection and planting projects. It indicates that vegetative response may already be starting to moderate maximum stream temperatures

The EDT fish habitat analysis reported that the Lower Crooked River system has the following habitat deficiencies: seasonally low stream flow, water temperature extremes, sedimentation, and channel stability and habitat diversity. This evaluation emphasizes

the need for riparian and stream channel restoration, as well as additional water conservation or water right acquisition to increase low seasonal flow. There is also the need for upland habitat recovery to reduce rapid storm runoff and stream sediment delivery. Restoring fish passage at artificial obstructions will be a key factor affecting potential re-introduction of anadromous fish. There is the need for a detailed baseline stream habitat inventory and long-term monitoring and evaluation for ongoing and proposed habitat projects.

Project implementation in the *Lake Creek and Link Creek Fish Passage Improvement Project Area* is crucial to the successful re-establishment of Sockeye salmon in the Metolius/Suttle Lake Habitat complex. Planning has been completed for fish passage and screening at the Link Creek obstruction. The Lake Creek site needs to be evaluated and remedial measures designed. A monitoring and evaluation plan would help to assess the success of the structural modifications, as well as the fish re-introduction.

Restoration in the *North Fork Crooked River Instream and Riparian Habitat Restoration Project Area* is a high priority because of the core redband trout population in this stream habitat complex. Stream habitat and fish population inventories have helped to document the need for habitat restoration. Surveys indicated that stream habitat on public forestland remains in fair to good condition, while most stream reaches on privately owned lands have significant habitat deficiencies, including low summer flow, stream temperature extremes, sedimentation, streambank and channel stability, instream habitat diversity and fish passage. A prerequisite for habitat treatment is a detailed baseline habitat inventory to prioritize restoration activities and monitor treatments. Landowner cooperation will be critical before instream, riparian and upland habitat recovery can be initiated. Summer stream flow recovery through riparian and stream channel treatments and restoration of natural water storage by water table recharge are requirements for appreciable increases in fish and wildlife populations. In addition, upland watershed recovery to slow runoff and reduce erosion and stream sedimentation will also be an important ecosystem recovery tool.

Restoration in the **Beaver Creek Instream and Riparian Habitat Restoration Project Area** (Warm Springs River system) is a high priority because of the spring Chinook salmon and summer steelhead spawning and rearing in this stream. Past habitat restoration included installation of instream structure in a channelized stream reach. Further restoration is needed to address remaining problems. A portion of the stream was re-located and straightened to facilitate highway construction. Other stream reaches have been impacted by livestock use. A recent detailed stream habitat survey and the EDT habitat analysis identified the following habitat deficiencies in this stream: instream habitat diversity, streambank stability, temperature and sedimentation. A prerequisite to initiation of habitat treatments will be use of the AIP Habitat Survey to prioritize treatments areas and techniques and determine if there is a need for more detailed baseline habitat data for project progress monitoring and evaluation.

The **Tygh and Badger Creek Habitat Restoration Project Area** is a high priority area because of the genetically unique redband trout found in the White River system. Past habitat restoration projects include bank stabilization and riparian recovery following the 1974 Flood and subsequent channel alteration and manipulation. In the interim, there has been appreciable recovery of riparian vegetation and streambank stability, except in areas subject to livestock use or channel manipulation. However there was no formal monitoring of these earlier habitat projects. The QHA habitat analysis indicated that

these stream reaches had the following habitat deficiencies: summer stream flow, channel stability, instream habitat diversity and fish passage. A detailed habitat survey is needed to establish baseline habitat conditions and aid in project planning and long-term evaluation. It appears that restoration measures should include livestock controls, fish laddering and screening at irrigation diversions and water conservation measures (piping, water acquisition, and relocation of diversion points).

The Lower Deschutes River Instream and Riparian Habitat Restoration Project Area is a high priority for all focal fish species because of their use of this habitat during some or all of their freshwater life stages. A number of riparian habitat restoration projects have been implemented on the lower 100 miles of the river over the past twenty-five years. Riparian livestock exclosures have proven the most effective treatment for restoration of diverse riparian vegetative communities. These projects have been implemented along approximately 45 miles of river shoreline, which when combined with approximately 90 miles of shoreline protected from livestock by railroad or highway right-of-ways, leaves approximately 65 miles of shoreline that is in need of riparian and instream habitat restoration or protection. There has not been detailed monitoring of past projects, but an ODFW photo-point series has documented the vegetative response in several areas, including the lower twenty miles of river. This limited monitoring has shown substantial recovery in some areas, despite the 1996 Flood-of record. Some areas have shown channel narrowing and increases in overhead and aquatic vegetation. Appreciable increases in fall Chinook salmon spawning in river reaches may be related to recovering riparian and instream habitat.

The EDT habitat assessment analysis concluded that this reach of river has the following habitat deficiencies: instream habitat diversity, streambank stability/cover, flow and temperature. There is no detailed habitat survey for the lower Deschutes River. Such a survey could provide important habitat baseline data and aid in prioritization of restoration components. Based on past projects, it appears effective livestock restrictions are needed for diverse riparian vegetative recovery. Other treatments considered should include upland livestock water developments and limitations on concentrated recreational use in the river's riparian corridor.

Restoring fish passage in the *Pelton Round Butte Fish Passage Restoration Project Area* is a high priority because of the potential for re-introduction of focal fish species into historic habitat and the resulting increase in subbasin fish production. This project is a federal hydropower license requirement for the project operators. Years of engineering and aquatic studies have been conducted, and project completion is anticipated within the next five years. Substantial monitoring and evaluation will also be required to determine the effectiveness of adult fish passage and juvenile collection and transportation facilities.

A number of other stream and watershed restoration projects have been conducted in other portions of the subbasin. These projects include water conservation measures, TMDL data collection and report development, juniper control or thinning, noxious weed control, forest fire rehabilitation, road abandonment, riparian livestock exclosure fencing, instream structure and spawning habitat restoration, vegetative plantings, re-establishment of interior grassland habitat, off-channel livestock water developments and implementation of farm conservation plans. The degree of project monitoring and evaluation detail has varied widely on these projects.

						Project	Resourc es	Duration of	Location		
ID	Organizatio n	Type	Project Title	County	Type of Protection	Size (acres)	Protecte d	protectio n	of Protection	Status	Brief Description
1	Crooked River Watershed Council	Local	Crooked River Watershed Assessment	Crook	Plan	>1 million	Fish Species		Entire Crooked R. Watershed	On- going	Completed in 2002, document provides general resource info. And will guide restoration and enhancement efforts throughout the watershed.
2	Crooked River Watershed Council	Local	Ochoco Watershed Channel Conditions	Crook	Plan	50,000- 100,000	Fish Species		McKay Creek, Mill, Marks and Ochoco Creeks	On- going	Inventory of channel and habitat conditions on the 4 primary streams in the Crooked River Watershed that originate in the Ochoco Mountains.
3	Wasco Co. SWCD	Local	Buck Hollow Watershed Enhancement Plan	Wasco	Plan	100,000- 500,000			Buck Hollow Watershed, 120,000 Acres	On- going	See description under Buck Hollow Watershed Project. Protects upland, riparian and instream resources.
4	Wasco Co. SWCD	Local	Bakeoven Watershed Action Plan	Wasco	Plan	50,000- 100,000			Bakeoven Watershed, 88,000 Acres	Reviewe d on Regular Basis	See description under Bakeoven Watershed Project. Protects upland, riparian and instream resources. To be reviewed in 2003.

Table I.1. Existing Plans and Programs Affecting Fish, Wildlife and Ecosystem Resources in Deschutes Subbasin.

						Project	Resourc es	Duration of	Location		
ID	Organizatio n	Туре	Project Title	County	Type of Protection	Size (acres)	Protecte d	protectio n	of Protection	Status	Brief Description
5	Wasco Co. SWCD	Local	Lower Deschutes Ag H2O Qual. Mgmt. Plan	Wasco	Plan		Water Quality		Deschutes Basin downstrea m of Trout Creek, plus the E. Hood Basin & Columbia Tribs within Sherman Co	Reviewe d on Regular Basis	Describes ag. Practices and prohibited conditions to protect water quality in the Lower Deschutes Area. Oregon Admin. Rules provide ODA with enforcement authority.
6	Deschutes Basin Land Trust	Private	Back to Homewaters	Deschutes	Program	50,000- 100,000	Fish		Upper Des. Basin, inc. Des. (to Big Falls), Metolius, & Crooked R. (to Bowman & Ochoco dams)& tribs	On- going	landscape scale effort to protect and restore salmon & steelhead habitat for reintroduction. Phase 1: GIS dataset, and prioritizing restoration projects with partners.
7	COIC	Local	COPWRR	Multiple	Plan	>1 million	Upland Habitat		Crook, Deschutes and Jefferson Counties	Will expire and not be renewed	The COPWRR Strategy Framework is a community based strategy to increase hazardous fuel removal by increasing small diameter treatment by-product utilization in Central Oregon.

	Organizatio	Тура	Project Title	County	Type of Protection	Project Size	Resourc es Protecte	Duration of protectio	Location of Protection	Status	Brief Description
8	Oregon Dept. of Agriculture	State	Crooked river Agricultural Water Quality Mgmt. Plan	Multiple	Plan	>1 million	Water Quality		Crooked R. drainage, not the lower 20 Mi. of the Crooked, which are in Middle/Upp Des. And	Reviewe d on Regular Basis	Plan is being developed with expect adoption in 2004. Area Plan is not enforceable. It encourages landowners to maintain uplands and properly manage croplands and ranchettes. It emphasizes the effect of healthy uplands on stream system health.
9	Oregon Dept. of Agriculture	State	Crooked River AgWQM Area Rules	Multiple	Legal	>1 million	Water Quality		Crooked R. drainage, not the lower 20 Mi. of the Crooked, which are in Middle/Upp Des. And	Reviewe d on Regular Basis	Area Rules for Crooked R. (OAR 603-90 #00-60) are being developed and will be adopted in 2004. They will be enforceable by ODA. The rules will require compliance with ORS468B; additional requirements will be determined.

ID	Organizatio n	Туре	Project Title	County	Type of Protection	Project Size (acres)	Resourc es Protecte d	Duration of protectio n	Location of Protection	Status	Brief Description
10	Oregon Dept. of Agriculture	State	Lower Deschutes AgWQM Plan	Multiple	Plan	>1 million	Water Quality		Lower Deschutes, drainage below trout creek, and drainages to the Columbia outside Des, bet. Hood/JD	Reviewe d on Regular Basis	Plan is a tool for landowners to use to control erosion on uplands, minimize streambank erosion, and not pollute. Recommends a conservation plan for landowners.
11	Oregon Dept. of Agriculture	State	Lower Deschutes AgWQM Rules	Multiple	Legal	>1 million	Water Quality		Lower Deschutes, drainage below trout creek, and drainages to the Columbia outside Des, bet. Hood/JD	Reviewe d on Regular Basis	Rules adopted 2000 and revised in 2002: landowners must control soil erosion in uplands and streambanks beyond what is naturally occurring.
12	Oregon Dept. of Agriculture	State	Middle Deschutes AgWQM Plan	Multiple	Plan	500,000- 1 million	Water Quality		Middle Deschutes, Trout crk to confluence of Crooked, not inc. Metolius	Reviewe d on Regular Basis	Plan focuses on proper use of streambanks and uplands, irrigation and livestock use, storage of crop nutrients and chemicals.

ID	Organizatio n	Туре	Project Title	County	Type of Protection	Project Size (acres)	Resourc es Protecte d	Duration of protectio n	Location of Protection	Status	Brief Description
13	Oregon Dept. of Agriculture	State	Middle Deschutes AgWQM Rules	Multiple	Legal	500,000- 1 million	Water Quality		Middle Deschutes, see above	Reviewe d on Regular Basis	Rules adopted in 2001 and reviewed in 2003. Enforceable to have landowners comply with ORS 468B. See other regions WQM area rules.
14	Oregon Dept. of Agriculture	State	Upper Deschutes AgWQM Plan	Multiple	Plan	>1 million	Water Quality		Upper Deschutes, above and including Metolius, not Crooked R.	Reviewe d on Regular Basis	Plan will be adopted in 2003. Landowners encouraged to maintain adequate streamside veg, minimize runoff and steambank erosion and pollutants, including manure, out of water systems.
15	Oregon Dept. of Agriculture	State	Upper Deschutes AgWQM Rules	Multiple	Legal	>1 million	Water Quality		Upper Deschutes, see above.	Reviewe d on Regular Basis	Rules to be adopted in 2003, and enforceable by ODA. Landowners must comply with ORS 468B, see above regions.

							Resourc	Duration			
						Project	es	of	Location		
	Organizatio				Type of	Size	Protecte	protectio	of		
ID	n	Туре	Project Title	County	Protection	(acres)	d	n	Protection	Status	Brief Description
											The purpose of the
											wildlife area
											combining (WA)
											zone is to conserve
											important wildlife
											County: to protoct
											an important
											environmental
											social and
											economic element
											of area & to permit
	Deschutes								Located		development
	Co. Comm.		Title 18- Wildlife						throughout		compatible w/
	Developmen		Area Combining				Upland		Deschutes	On-	protecting wildlife
16	t Dept.	Local	Zone	Deschutes	Plan		Habitat		Co.	going	resource
											The purpose of
											sensitive habitat are
											from the county's
											Goal 5 sensitive
											bird & mammal
											inventory as critical
									Located at		for the survival of
	Deschutes		Title 18-						specific		select species are
	Co. Comm.		Sensitive Bird				Wildlife		sites	~	protected from
17	Developmen		and Mammal	Deschutes	Dian		or Bird			On-	excluded FPA
17	i Depi.	Local		Deschutes	Plan		Species		Des. Co.	going	activities
											Purpose of zone
											are to implement
	Deschutes										Comp. Plan
	Co. Comm.						10/-1		Located		Flooding Secn,
10	Developmen		Litle 18- Flood	Deachuter	Dian		vvater			On-	flood boxerdo
١Ö	i Depi.	Local	Fiain Zone	Deschutes	rian		Quality			yoing	noou nazarus,

							Resourc	Duration			
						Project	es	of	Location		
	Organizatio				Type of	Size	Protecte	protectio	of		
ID	n	Туре	Project Title	County	Protection	(acres)	d	n	Protection	Status	Brief Description
											conserve riparian
											areas for maint. Of
											Fish & Wildlife,
											preserve sig.
											halance nub
											Interest.
	Deschutes										
	Co. Comm.		Title 18- Forest						Located		Purpose is to
40	Developmen		use Zone (F-1 &				Upland		Throughout	On-	conserve forest
19	t Dept.	Local	F-2)	Deschutes	Plan		Habitat		Des. Co.	going	lands.
											Purpose is to
											areas of
											scenic/natural res.
											restrict dev. In
											areas w/fragile,
											unusual or unique
											qualities; protect
											and improve air and
	Deschutes		Title 18 Open								land resources, and
	Co Comm		Space and						Located		plan dev That will
	Developmen		conservation				Upland		throughout	On-	conserve open
20	t Dept.	Local	zone	Deschutes	Plan		Habitat		Des. Co	going	space.
											Purpose is to
									Located		maintain scenic and
									within 1/8		nat. res. Of the
									or 1/4 mile		designated areas,
									of selected		and to
	Deschutes		TH- 10						streams		maintain/enhance
	Co. Comm.		Landsoano Mat				Linland		throughout	0	scenic vistas and
21	t Developmen	Local	Combining Zone	Deschutes	Plan		Habitat			aoina	as seen from
∠ I	r Dept.	LUCAI		Deschutes	1 1011		Tabilal		De3. 00.	guing	

						Project	Resourc es	Duration of	Location		
	Organizatio				Type of	Size	Protecte	protectio	of		
ID	n	Туре	Project Title	County	Protection	(acres)	d	n	Protection	Status	Brief Description
											designated rivers or streams.
22	Deschutes Co. Comm. Developmen t Dept.	Local	Conditional Use- Fill and Removal	Deschutes	Plan		Wetland Resource s		Located throughout Des. Co.	On- aoina	Conditional use permit is required for excavation, grading and fill and removal within the bed and banks of a stream or river or wetland subject to Des. Co. Code (DCC) 18.120.050 and 18.128.270.
23	Deschutes Co. Comm. Developmen t Dept.	Local	100 ft setback from streams and lakes	Deschutes	Plan		Water Quality		100 ft of all streams and lakes in Des. Col	On- going	All sewage disp. Installations, all structures, buildings, and permanent fixtures shall be setcack a min. of 100 ft from the ordinary high water mark along streams and lakes. There are provisions that allow encroachment under special circumstances.

							Resourc	Duration			
						Project	es	of	Location		
	Organizatio				Type of	Size	Protecte	protectio	of		
ID	n	Туре	Project Title	County	Protection	(acres)	d	n	Protection	Status	Brief Description
											For all land use
											actions involving
											property adjacent to
											Fall Lil Des and
											Spring Rivers.
											Paulina, Squaw &
											Tumalo Crks, the
											property owner
											shall convey to the
	Deschutes								10 ft from		county a CE
			Conservation						select		property on the
	Developmen		Easement DCC				Water		rivers or	On-	subject lot w/in 10'
24	t Dept.	Local	18.116.220	Deschutes	Plan		Quantity		streams.	going	of hi water mark
			Crook Co							Reviewe	
			Natural Res.							d on	Plan to provide
	Crook Co.		Planning			100,000-	Water			Regular	guidance to Crook
25	Court	Local	Consultation?	Crook	Plan	500,000	Quality		Crook Co.	Basis	Co. Planning.
									Crook and		
									Deschutes		
			Upper Des.						Co. (refer	Reviewe	
	BLM		Resource			400.000			to BLM	d on	BLM
26	Prineville	Fodoral	Management	Deschutes	Dian	100,000-	Upland		planning	Regular	BLIVI resource
20	DISL.	recerai	Pian	Deschules	Plan	500,000	Παριται		map)	Dasis	FSA consultation
											on BOR's Des
											Basin projects.
											This will
											complement
											mitigation efforts
	US Fish and								Decebutes	07	the FWS has
27	Service	Federal							Deschutes	on-	other consultations
21	CEIVICE	i cucial			Leyai				Dasin	yoniy	

	Organizatio				Turne of	Project	Resourc es	Duration of	Location		
ID	n	Type	Project Title	County	Protection	(acres)	d	n	Protection	Status	Brief Description
			*								hydro relicensing, cooperative efforts, etc. Operation and maintenance.
28	US Fish and Wildlife Service	Federal	ESA Consultation with PGE/CTWS		Legal				lower Des. Basin, primarily Jefferson and Des. Co.	On- going	ESA Consultation on the Pelton Round Butte hydro project.
29	US Fish and Wildlife Service	Federal	Relicensing of the Pelton Round Butte project		Legal				lower Des. Basin, primarily Jefferson and Des. Co.	On- going	Hydro relicensing provides an opportunity to address a wide range of environmental issues including fish passage, fish and wildlife habitat and water quality.
30	US Fish and Wildlife Service	Federal	Bull Trout critical habitat designation	Multiple	Legal	>1 million	Fish Species		entire range of bull trout	On- going	designation required under the ESA and is intended to designate all areas essential for the conservation of the species. Protection would include requirements under section 7 of the act, requiring other

	Organizatio				Type of	Project	Resourc es Protecte	Duration of	Location		
ID	n	Type	Project Title	County	Protection	(acres)	d	n	Protection	Status	Brief Description
											federal agencies to consult with FWS to mod. Hab.
31	US Fish and Wildlife Service	Federal	Bull Trout Recovery Plan draft	Multiple	Plan	100,000- 500,000	Fish Species		Recovery plan will be range wide, but Des. Basin plan to include waters w/current & potential pops.	Reviewe d on Regular Basis	identifies the area occupied, threats and tasks identified to help conserve bull trout to recovery at which they could be delisted. The plan is discretionary and includes specific tasks that could be implemented by land/water proj. mgrs in the basin.
32	Confederate d Tribes of Warm Springs	Tribal	Warm Springs Comprehensive Plan	Jefferson/ Wasco	Plan	500,000- 1 million	All	on-going	Warm Springs Reservatio n	On- going	Resource protection strategies for 650,000 acres of Tribal Lands.
33	Confederate d Tribes of Warm Springs	Tribal	Integrated Resource Management Plan	Jefferson/ Wasco	Plan	500,000- 1 million	All	on-going	Warm Springs Reservatio n	On- going	Protection standards for tribal resources.
34	Confederate d Tribes of Warm Springs	Tribal	Water Quality Ordinance	Jefferson/ Wasco	Legal	500,000- 1 million	Water Quality	on-going	Warm Springs Reservatio n	On- going	Implements comprehensive plan and sets protection

							Resourc	Duration			
					T	Project	es	of	Location		
п	Organizatio	Type	Project Title	County	Type of Protection	SIZE (acres)	d	protectio	OT	Status	Brief Description
		туре		County	TOLECTION	(acres)	u		Trotection	Jialus	standards
											otandardor
											Implements
	Confederate								Warm		comprehensive
	d Tribes of			1 - 55 (500.000.4	I had a se al		Springs	0	plan and sets
25	Warm	Tribol	Range & Ag.	Jefferson/		500,000- 1 million	Upland		Reservatio	On-	protection
35	Springs	TTDai	Orumance	Wasco	Leyai		Παυιιαι	on-going	11	going	Implements
	Confederate								Warm		comprehensive
	d Tribes of								Springs		plan and sets
	Warm		Fisheries	Jefferson/		500,000- 1	Fish		Reservatio	On-	protection
36	Springs	Tribal	Ordinance	Wasco	Legal	million	Species	on-going	n	going	standards.
											Implements
	Confederate								Warm		comprehensive
	d Tribes of		Mildlife	lofforcon/		500.000 1	Wildlife or Dird		Springs	00	plan and sets
37	Springs	Tribal	Ordinance	Wasco		500,000- 1 million	Species	on-going	n	on-	standards
57	opings	Theat	Ordinarioe	110300	Logai		opecies	ongoing		going	Implements
	Confederate								Warm		comprehensive
	d Tribes of						Wetland		Springs		plan and sets
	Warm		Timber	Jefferson/		500,000- 1	Resource		Reservatio	On-	protection
38	Springs	Tribal	Ordinance	Wasco	Legal	million	S	on-going	n	going	standards.
	Confederate								Warm		
	d Tribes of		Fich Wildlife and	lofforcon/		500 000 1	Fich		Springs	On	Implomente
39	Springs	Tribal	Parks Program	Wasco	Program	million	Species	on-going	n	aoina	ordinances
	Confederate	Thou	r anto r rogram		1 rogram		opeciee	on going	Warm	going	
	d Tribes of								Springs		
	Warm		Environmental	Jefferson/		500,000- 1	Water		Reservatio	On-	Implements
40	Springs	Tribal	Program	Wasco	Program	million	Quality	on-going	n	going	ordinances.
	Confederate								Warm		
	d Tribes of			1.56		500.000 1			Springs	0	lass a la seconda
11	vvarm	Tribal	Range & Ag.	Jefferson/	Drogram	500,000- 1 million	Upland		Reservatio	On-	implements
41	Springs	Innai	гюдіані	wasco	Piogram		navilal	on-going	11	going	orumances.

п	Organizatio n	Type	Project Title	County	Type of Protection	Project Size (acres)	Resourc es Protecte d	Duration of protectio	Location of Protection	Status	Brief Description
42	Confederate d Tribes of Warm Springs	Tribal	Forestry Program	Jefferson/ Wasco	Program	500,000- 1 million	Upland Habitat	on-going	Warm Springs Reservatio n	On- going	Implements ordinances.
43	Confederate d Tribes of Warm Springs	Tribal	Fire Management Program	Jefferson/ Wasco	Program	500,000- 1 million	Upland Habitat	on-going	Warm Springs Reservatio n	On- going	Implements ordinances.
44	Confederate d Tribes of Warm Springs	Tribal	Monitoring Program	Jefferson/ Wasco	Program	500,000- 1 million	All	on-going	Warm Springs Reservatio n	On- going	Implements ordinances.
45	Deschutes Basin Land Trust	Private	Community Preserves	Multiple	Program				Des. Basin, on specific sites that met criteria	On- aoina	The community preserve strategy will seek to identify and acquire properties that are well-suited to serve basin communities as outdoor classrooms to increase awareness
46	Deschutes Co.	Local	Transfer of Development Credits	Deschutes	Program	50,000- 100,000	Water Quality		South Des. Co.	On- going	Co. is purchasing dev. Rights from private owners to prevent new septic systems from being installed. Restrictive covenants are placed on property. Dev. Rights are then transferred

	Organizatio				Type of	Project Size	Resourc es Protecte	Duration of protectio	Location of		
ID	n	Туре	Project Title	County	Protection	(acres)	d	n	Protection	Status	Brief Description
			Waterway Overlay Zone				Water		Des. R. and Tumalo Creek w/in Bend city limits from ord. High water mark inland from 30 ft to	On-	THE WOZ has 4 components: Riparian boundary w/setbacks to protect riparian resources; flood plain areas as defined by FEMA;
47	City of Bend	Local	Ordinance	Deschutes	Legal	100- 1000	Quality		>100ft	going	DRDR; and ASI
48	City of Bend	Local	Upland Areas of	Deschutes	l egal	100- 1000	Upland Habitat		within city of bend, having spec. features (rock outcroppin gs and sig. Trees)	On-	Over 30 unique areas w/in city limits have received special protection under the Upland ASI ordinance. Protection includes a boundary (usually at the toe of slope) and 30 ft. building set back

 Table I.2. Existing Restoration and Conservation Projects.

10		Organization	Organi zation Type	Project Title	Project Type	Land Owner	County	Funding Source	Budget for Project	Project Start Date	Project End Date	Project Size	Project Units	Project Status	Limiting Factor or Eco Process Addressed	Stream Name	Mapped Color	Project Description	Results
	1	Crooked River Watershed Council	Local	Little Camp Creek Spring Improvements	Agricultural/Ran geland Improvement	Private	Crook	State	\$5,000- 10,000	2002	2011+	5000	Acres	On-going	Upland Habitat	n/a		Development of 5 springs for livestock water. Includes installation of spring boxes, pipe, water troughs/tanks, and fencing to protect springs. Will improve livestock distribution and range conditions in several pastures totalling 5000 acres.	All 5 structures are functioning properly.
	2	Crooked River Watershed Council	Local	Mill Creek Habitat Enhancement	In-stream Flow Restoration	Private	Crook	State	\$5,000- 10,000	2002	2011+	1	Miles	On-going	Fish Habitat	Mill Creek		Placement of large woody debris and rock "j-hook" structures to enhance instream habitat. Included placement of juniper "riprap" to stabilize streambanks.	Structures have performed well in first flow event since installation.
	3	Crooked River Watershed Council	Local	Lawson Creek Road Mitigation	Road Abandonment/R estoration	Private	Crook	State	\$1,000- \$5,000	2002	2011+	.10	Miles	On-going	Water Quality	Lawson Creek		Relocation of road away from riparian area. Old roadbed was seeded, covered with organic material, and blocked. New roadbed was contructed upslope, out of riparian zone.	Old roadbed has grass growing through placed organic material (branches, logs).
	4	Crooked River Watershed Council	Local	Mill Creek Irrigation Ditch Removal	In-stream Flow Restoration	Private	Crook	State	\$1,000- \$5,000	2002	2011+	.75	Miles	On-going	Fish Habitat	Mill Creek		Installation of diversion pipe that will direct water from diversion ditch back to Mill Creek. Will eliminate .75 mile of diversion ditch, returning water to creek further upstream and preventing flow losses due to leakage and infiltration.	Pipe is functioning properly.
	5	Crooked River Watershed Council	Local	Lower Crooked River Restoration (2002)	Stream Bank Restoration	Private	Crook	Federal	\$25,000- \$50,000	2002	2011+	.25	Miles	On-going	Riparian/Wetland Habitat	Crooked River		Streambank restoration utilizing low- intensity methods. Vertical streambanks were excavated to create a floodplain terrace and a sloped bank. Erosion cloth and extensive riparian plantings were utilized to stabilize the bank. Rock "j- hook" structures w	Structures have performed well and bank remains stable following first flow event since installation.
	6	Crooked River Watershed Council	Local	Duncan Creek Restoration	Instream Habitat Restoration	Private	Crook	State	\$25,000- \$50,000	2002	2011+	1	Miles	On-going	Riparian/Wetland Habitat	Duncan Creek		Repair to 2 irrigation diversion structures to alleviate existing headcuts. Included installation of rock weirs to direct flows, and a rock step pool structure to facilitate fish passage. In addition, riparian fencing to exclude livestock was installed &	Structures have performed well in first flow event since installation.
	7	Crooked River Watershed Council	Local	McKay Creek Bank Stabilization	Stream Bank Restoration	Private	Crook	State	\$5,000- 10,000	2002	2011+	.25	Miles	On-going	Riparian/Wetland Habitat	McKay Creek		Stream restoration to address bank stabilization, riparian veg., and fish hab. Activities included the use of juniper "riprap" to stabilize banks & improve fish hab., the installation of rock "j-hooks," riparian planting, & riparian fencing to exclude li	Structures have performed well in first flow event since installation.
	8	Crooked River Watershed Council	Local	McKay Creek Channel Relocation	Stream Bank Restoration	Private	Crook	State	\$25,000- \$50,000	2002	2011+	2	Miles	On-going	Riparian/Wetland Habitat	McKay Creek		Creation of new channel in areas where channelization was having negative impact on riparian conditions. Included channel relocation, installation of rock "j- hooks," juniper root wads, extensive riparian planting, & installation of riparian fence to exclu	Structures have performed well in first flow event since installation.
	9	Crooked River Watershed Council	Local	Mill Creek Restoration (2001)	Instream Habitat Restoration	Private	Crook	State	\$25,000- \$50,000	2002	2011+	1	Miles	On-aoina	Fish Habitat	Mill Creek		Stream restoration to address bank stabilization, riparian veg., & fish hab. Activities included use of juniper "riprap" to stabilize banks & improve fish hab., installation of rock "j-hooks," & large wood, to improve fish hab. & riparian fence to exclude	Riparian veg. Is emerging (willow,alder), banks have begun stabilization process, & additional pool are formino.

Ī	_		Organi zation	i		Land		Funding	Budget for	Project Start	Project End	Project	Project	Project	Limiting Factor or Eco Process		Mapped		
L	D	Organization	Туре	Project Title	Project Type	Owner	County	Source	Project	Date	Date	Size	Units	Status	Addressed	Stream Name	Color	Project Description	Results
	10	Crooked River Watershed Council	Local	Upper Crooked/Shotg un Restoration	Stream Bank Restoration	Private	Crook	State	\$25,000- \$50,000	2001	2011+	2.5	Miles	On-going	Riparian/Wetland Habitat	Upper Crooked R., Shotgun Ck Pine Ck	,	Stream restoration to address bank stabilization & riparian veg. Activities included installation of rock "j-hooks," to direct flows & improve fish hab., & riparian fencing to exclude livestock. Steam restoration to address bank	Riparian veg. Is emerging (willow, alder) and banks have begun stabilization process.
	11	Crooked River Watershed Council	Local	Mill Creek Restoration (2000)	Stream Bank Restoration	Private	Crook	State	\$10,000- \$25,000	2000	2006-201	(1	Miles	On-going	Riparian/Wetland Habitat	Mill Creek		stabilization, riparian veg., & fish hab. Activities included use of juniper "riprap" to stabilize banks & improve fish hab., installation of rock "j-hooks," to direct flows & improve fish hab., & riparian fencing to excl	Riparian veg. Is thriving (willow, alder), banks have begun stabilization process, & habitat has been improved through increased cover & more pools.
	12	Crooked River Watershed Council	Local	Allen Creek Restoration	Stream Bank Restoration	Private		State		2000	2006-201	.5	Miles	On-going	Riparian/Wetland Habitat	Allen Creek		Stream restoration to address bank stabilization, riparian veg., & fish hab. Activities included use of juniper "riprap" to stabilize banks & improve fish habitat, installation of rock "j-hooks," to direct flows & improve fish hab., & riparian hab., & rip	Riparian veg. Is thriving (willow, alder), banks have begun stabilization process, & habitat has been improved through increased cover & more pools.
	13	Crooked River Watershed Council	Local	Riparian Planting	Stream Bank Restoration	City	Crook	Private	<\$1,000	2001	2005	.25	Miles	On-going	Riparian/Wetland Habitat	Crooked River		Riparian planting along .25 mile of Crooked River.	Plantings have encouraged the revegetatin process, which is stabilizing streambanks, narrowing the channel, helping reduce stream temperatures, & restoring native vegetation to a city park.
	14	Crooked River Watershed Council	Local	Riparian Planting	Stream Bank Restoration	County	Crook	Private	<\$1,000	2002	2006-201	.25	Miles	On-going	Riparian/Wetland Habitat	Ochoco Creek		Riparian planting along .25 mile of Crooked River.	Plantings have encouraged the revegetation process, which is stabilizing streambanks, narrowing the channel, helping reduce stream temperatures, & restoring native vegetation to a county park.
	15	Crooked River Watershed council	Local	Riparian Fencing and Planting	Stream Bank Restoration	Private	Crook	State	\$10,000- \$25,000	2001	2011+	2	Miles	On-going	Riparian/Wetland Habitat	McKay Creek		Riparian fencing of 2 miles of McKay Creek w/riparian plantings totalling 1 acre.	Livestock exclusion from riparian area has begun revegetation process. Streambanks are stabilizing, channel is narrowing, & fish habitat is improving.
	16	Crooked River Watershed council	Local	Riparian Fencing and Planting	Stream Bank Restoration	Private	Crook	State	\$1,000- \$5,000	2001	2011+	.3	Miles	On-going	Riparian/Wetland Habitat	Mill Creek		Riparian fencing of .3 mile of Mill Creek w/riparian plantings totalling .1 acre.	Livestock exclusion from riparian area has begun revegetation process. Streambanks are stabilizing, channel is narrowing, and fish habitat is improving.
	17	Crooked River	local	Riparian Fencing and Planting	Stream Bank Restoration	Private	Crock	State	\$1,000- \$5,000	2001	2011+	5	Miles	On-going	Riparian/Wetland Habitat	Mill Creek		Riparian fencing of .5 miles of Mill Creek	Livestock exclusion from riparian area has begun revegetation process. Streambanks are stabilizing, channel is narrowing, & fish habitat is improving

ID	Organization	Organi zation Type	Project Title	Project Type	Land Owner	County	Funding Source	Budget for Project	Project Start Date	Project End Date	Project Size	Project Units	Project Status	Limiting Factor or Eco Process Addressed	Stream Name	Mapped Color	Project Description	Results
	Crooked River 18 Watershed Council	Local	Riparian Planting	Stream Bank Restoration	Private	Crook	State	<\$1,000	2001	2011+	1	Miles	On-going	Riparian/Wetland Habitat	Ochoco Creek		Riparian plantings along 1 mile of Ochoco Creek	Plantings have encouraged revegetation process, which is stabilizing streambanks, narrowing the channel, and helping to reduce stream temperatures.
	Crooked River 19 Watershed Council	Local	Riparian Planting	Stream Bank Restoration	Private	Crook	State	<\$1,000	2001	2011+	.5	Miles	On-going	Riparian/Wetland Habitat	McKay Creek		Riparian plantings along .5 mile of McKay Creek.	Plantings have encouraged revegetation process, which is stabilizing streambanks, narrowing the channel, and helping to reduce stream temperatures.
	Crooked River 20 Watershed Council	Local	Riparian Planting	Stream Bank Restoration	Private	Crook	State	<\$1,000	2001	2011+	.5	Miles	On-going	Riparian/Wetland Habitat	McKay Creek		Riparian plantings along .5 mile of McKay Creek.	Plantings have encouraged revegetation process, which is stabilizing streambanks, narrowing the channel, and helping to reduce stream temperatures.
	Crooked River 21 Watershed Council	Local	Riparian Planting	Stream Bank Restoration	Private	Crook	State	<\$1,000	2001	2011+	.1	Miles	On-going	Riparian/Wetland Habitat	Crooked River		Riparian plantings along .1 mile of Crooked River.	Plantings have encouraged revegetation process, which is stabilizing streambanks, narrowing the channel, and helping reduce stream temperatures.
	Crooked River 22 Watershed Council	Local	Riparian Planting	Stream Bank Restoration	Private	Crook	State	<\$1,000	2001	2011+	.5	Miles	On-going	Riparian/Wetland Habitat	Duncan Creek		Riparian plantings along .5 mile of Duncan Creek.	Plantings have encouraged revegetation process, which is stabilizing streambanks, narrowing the channel, and helping reduce stream temperatures.
	Crooked River 23 Watershed Council	Local	Riparian Planting	Stream Bank Restoration	Private	Crook	State	<\$1,000	2001	2011+	.6	Miles	On-going	Riparian/Wetland Habitat	Little Bear Creek		Riparian plantings along .6 mile of Little Bear Creek.	Plantings have encouraged revegetation process, which is stabilizing streambanks, narrowing the channel, and helping to reduce stream temperatures.
	Crooked River 24 Watershed Council	Local	Riparian Planting	Stream Bank Restoration	Private	Crook	State	<\$1,000	2001	2011+	.5	Miles	On-going	Riparian/Wetland Habitat	Bear Creek		Riparian plantings along .5 mile of Bear Creek	Plantings have encouraged revegetation process, which is stabilizing streambanks, narrowing the channel, and helping to reduce stream temperatures.
	Crooked River 25 Watershed council	Local	Riparian Planting	Stream Bank Restoration	Private	Crook	State	<\$1,000	2001	2011+	.25	Miles	On-going	Riparian/Wetland Habitat	Ochoco Creek		Riparian plantings along .25 mile of Ochoco Creek	Plantings have encouraged revegetation process, which is stabilizing streambanks, narrowin the channel, and helping to reduce stream temperatures.
	Crooked River		Riparian	Stream Bank	City	Crock	State	~\$1 000	2001	2011+	2	Miles	On-going	Riparian/Wetland	Ochoco Creek		Riparian plantings along .2 mile of	Plantings have encouraged revegetation process, which is stabilizing streambanks, narrowing the channel, and helping to reduce stream temperatures

	D Organization	Organi zation Type	Project Title	Project Type	Land	County	Funding	Budget for Project	Project Start Date	Project End Date	Project Size	Project Units	Project Status	Limiting Factor or Eco Process	Stream Name	Mapped Color	Project Description	Results
_	Crooked River 27 Watershed Council	Local	Riparian Planting	Stream Bank Restoration	Private	Crook	State	<\$1,000	2001	2011+	.5	Miles	On-going	Riparian/Wetland Habitat	Ochoco Creek		Riparian plantings along .5 mile of Ochoco Creek.	Plantings have encouraged revegetation process, which is stabilizing streambanks, narrowing the channel, and helping to reduce stream temperatures.
	Crooked River 28 Watershed Council	Local	Riparian Planting	Stream Bank Restoration	Private	Crook	State	\$5,000- 10,000	2001	2011+	.5	Miles	On-going	Riparian/Wetland Habitat	n/a		Riparian fencing in upland headwaters of Sugar Creek. 12 acres of upland habitat, which excludes . Mile of Sugar Creek from grazing.	Fencing has encouraged revegetation process,which is stabilizing streambanks, narrowing the channel, and helping to reduce stream temperatures.
	Crooked River 29 Watershed Council	Local	Riparian Planting	Stream Bank Restoration	Private	Crook	State	\$1,000- \$5,000	2001	2011+	1.5	Miles	On-going	Riparian/Wetland Habitat	Wolf Creek		Riparian fencing of 1.5 miles of Wolf Creek.	Livestock exclusion has encouraged revegetation process, which is stabilizing streambanks, narrowing the channel, and helping to reduce stream temperatures.
	Crooked River 30 Watershed Council	Local	Riparian Planting	Stream Bank Restoration	Private	Crook	State	\$10,000- \$25,000	2001	2011+	6	Miles	On-going	Riparian/Wetland Habitat	Little Bear Creek		Riparian fencing of 6 miles of Little Bear Creek and tributaries.	Fencing has encouraged revegetation process, which is stabilizing streambanks, narrowing the channel, and helping to reduce stream temperatures.
	Crooked River 31 Watershed Council	Local	Riparian Planting	Stream Bank Restoration	Private	Crook	State	\$1,000- \$5,000	2001	2011+	.5	Miles	On-going	Riparian/Wetland Habitat	Mill Creek		Riparian fencing of .5 miles of Mill Creek.	Livestock exclusion has encouraged revegetation process, which is stabilizing sreambanks, narrowing the channel, and helping to reduce stream temperatures.
	Crooked River 32 Watershed Council	Local	Riparian Planting	Stream Bank Restoration	Private	Crook	State	\$1,000- \$5,000	2001	2011+	.5	Miles	On-going	Riparian/Wetland Habitat	Mill Creek		Riparian fencing of .5 miles of Mill Creek.	Fencing has encouraged revegetation process, which is stabilizing streambanks, narrowing the channel, and helping to reduce stream temperatures.
	Crooked River 33 Watershed Council	Local	Riparian Planting	Stream Bank Restoration	Private	Crook	State	\$10,000- \$25,000	2001	2011+	4	Miles	On-going	Riparian/Wetland Habitat	South Fork Crooked River		Riparian fencing of 4 miles of South Fork Crooked River.	Livestock exclusion has encouraged revegetation process, which is stabilizing streambanks, narrowing the channel, and helping to reduce stream termperatures.
	Crooked River 34 Watershed Council	Local	Riparian Planting	Stream Bank Restoration	Private	Crook	State	\$1,000- \$5,000	2001	2011+	.5	Miles	On-going	Riparian/Wetland Habitat	Mill Creek		Riparian fencing of .5 miles of Mill Creek	Fencing has encouraged revegetation process, which is stabilizing streambanks, narrowing the channel, an helping to reduce stream tempertures
	Crooked River 35 Watershed council	Local	Wolf Creek Off- Stream Watering	-Agricultural/Ran geland Improvement	Private	Crook	State	\$10,000- \$25,000	2003	2011+	1	Miles	On-aoina	Water Quality	Wolf Creek		Development of 2 off-stream watering structures (solar & electric) that will improve livestock destribution, & coupled w/riparian fencing, will improve water quality & channel conditions.	Just recently implemented.

Ī	D	Organization	Organi zation Type	Project Title	Project Type	Land Owner	County	Funding Source	Budget for Project	Project Start Date	Project End Date	Project Size	Project Units	Project Status	Limiting Factor or Eco Process Addressed	Stream Name	Mapped Color	Project Description	Results
	36	Crooked River Watershed Council	Local	McKay Creek Off-Stream Watering	Agricultural/Ran geland Improvement	Private	Crook	State	\$10,000- \$25,000	2003	2011+	1	Miles	On-going	Water Quality	McKay Creek		Development of 3 off-stream watering structures that will improve livestock distribution, and coupled with riparian fencing, will improve water quality and channel conditions.	Just recently implemented.
	37	Crooked River Natershed council	Local	Beaver Creek Off-Stream Watering	Agricultural/Ran geland Improvement	Private	Crook	State	\$1,000- \$5,000	2003	2011+	2	Miles	On-going	Water Quality	South Fork Beaver Creek		Development of 3 off-stream watering structures (spring developments) that will improve livestock distribution and will improve water quality and channel conditions.	To be implemented Spring 2003.
	38	Crooked River Natershed Council	Local	Little Bear Creek Off- Stream Watering	Agricultural/Ran geland Improvement	Private	Crook	State	\$10,000- \$25,000	2003	2011+	2	Miles	On-going	Water Quality	Little Bear Creek		Development of 10 off-stream watering features (solar/troughs and spring developments) that will improve livestock distribution, and coupled with riparian fencing, will improve water quality and channel conditions.	To be implemented Spring 2003.
	201		Deiterte	Annual Water Leasing	In-stream Flow	Driverte	Deschuter	F adaad	\$50,000-	2004	2014.	0000				Mid. Deschutes, L. Crooked,		The AWLP is a cooperative effort w/irrigation districts to pay landowner to lease water rights instream to improve streamflow on an annual basis. The program pays landowners a set price to lease water for one year only. It	Lease of around 8000 acre feet of water instream in each of 2001 & 2002. The program will likely expand in the ching
-	39 40	Wasco County SWCD	Local	Double Barrel Water Works (B bar B)	Upland Habitat Restoration	Private	Wasco	State	\$10,000 \$10,000- \$25,000	2001	2003	100	Acres	On-going	Riparian/Wetland Habitat	White River		Collects runoff water in series of ponds for wildlife habitat. Also stores irrigation water. Includes tree and shrub planting.	Provides for atrificial wetland habitat in previously dry area.
	41	Wasco County SWCD	Local	Fire Damage Recovery Grants	Other	Private	Wasco	State	\$25,000- \$50,000	2002	2003	400	Acres	On-going	Upland Habitat	Buck Hollow, Bakeoven, Deschutes River		Reseeds & rehabilitates firebreaks & severely burned areas of White River Wildfire. Project actually represents three separate grants. Includes fencing, where necessary to protect new seeding.	Will restore grazing land condition & rotational grazing system to parts of the White River Wildfire.
	42	Wasco County SWCD	Local	Buck Hollow Watershed Project	Agricultural/Ran geland Improvement	Private	Wasco	Other	>\$500,00 0	1999	2003	120,000	Acres	On-going	Multiple	Buck Hollow	BLUE	Buck Hollow Wtershd Prjt start: '90 & sched. for completion in 2005. Treats all aspects of watshd function from upland hydrology/habitar-iparian conditions, - instream habitat. Funded by USDA, State (OWEB) and local Indowners. Inc. extensive monitoring Improves irrigation conveyance and	Buck Hollow runs clean. Formerly seasonal tribs are now perennial. 95% of riparian area is in riparian pasture mgmt or exclusion. Upland range conditions are vastly improved. Spawning has risen steadily since '94.
_	43	Wasco County SWCD	Local	Dancing Wolf Reservoir	Agricultural/Ran geland Improvement	Private	Wasco	State	\$10,000- \$25,000	2002	2003	20	Acres	On-going	Upland Habitat	White River	Green	storage efficiency, reducing the nbeed for water withdrawals during the critical late season.	
	44	Wasco County	Local	McElheran No- till	Agricultural/Ran geland Improvement	Private	Wasco	Federal	\$100,000 \$500,000	1999	2004	600	Acres	On-going	Upland Habitat	White River	Blue	Provides cost share funding for conversion to direct-see (no-till) farming on a farm on Juniper Elat	Reduces runoff and erosion from cropfields. Reduces high flows from storm events. Increases infiltration of precipitation into soil and may have a positive effect on summer baseflows and stream temperatures. Improves overall soil quality.

ID Organization	Organi zation Type	Project Title	Project Type	Land Owner	County	Funding Source	Budget for Project	Project Start Date	Project End Date	Project Size	Project Units	Project Status	Limiting Factor or Eco Process Addressed	Stream Name	Mapped Color	Project Description	Results
Wasco County 45 SWCD	Local	White River No-Till	Agricultural/Ran geland Improvement	Private	Wasco	State	\$100,000 \$500,000	2000	2004	600	Acres	On-going	Riparian/Wetland Habitat	White River and tribs	Pink	Provides cost share funding for conservation to direct-see (no-till) farming on several farms in White River Watershed	Reduces runoff and erosion from cropfields. Reduces high flows from storm events. Increases infiltration of precipitation into soil and may have a positive effect on summer baseflows and stream temperatures. Improves overall soil quality.
Wasco County 46 SWCD	Local	Bakeoven Bes Management Practices	t Agricultural/Ran geland Improvement	Private	Wasco	Federal	\$100,000 \$500,000	2001	2003	600	Acres	On-going	Riparian/Wetland Habitat	Bakeoven Creek and tribs	Green	Provides cost share for a variety of upland range and crop management practices that protect water quality by reducing runoff and erosion rates from uplands to streams. Funding provided by fed, state and landowners.	Reduces runoff and erosion from cropfields. Reduces high flows from storm events. Increases infiltration of precipitation into soil and may have a positive effect on summer baseflows and stream temperatures. Improves overall soil quality.
Wasco County 47 SWCD	Local	Bakeoven Instream Habitat	Agricultural/Ran geland Improvement	Private	Wasco	Federal	\$100,000 \$500,000	1999	2004	20	Miles	On-going	Riparian/Wetland Habitat	Bakeoven Creek and tribs	Green	Makes various improvements to riparian conditions and instream habitat in Bakeoven Creek and major tribs.	Directly improves fish habitat. Complements Bakeoven Besi Management Practices project by providing another piece of the puzzle.
Wasco County 48 SWCD	Local	Butler Canyon Quarry Restoration	Agricultural/Ran geland Improvement	Private	Wasco	State	\$5,000- 10,000	2001	2003	12	Acres	On-going	Riparian/Wetland Habitat	Butler Canyon (trib to White R	Purple	Resoration of a former quarry. Project includes removal of a road and culvert, reshaping of the streambanks, grass seeding, and tree planting.	Reduces streambank erosion and consequent sedimentation. Reduces potential for flood damages at downstream sights
Wasco County 49 SWCD	Local	Jordan Creek Restoration Project	Agricultural/Ran geland Improvement	Private	Wasco	Other	\$50,000- \$100,000	2002	2004	4	Miles	On-going	Riparian/Wetland Habitat	Jordan Creek (trib of White R)	Blue	Makes various improvements to riparian conditions on Jordan Creek. Practices include installation of a bridge, repair of an existing bridge, riparian fencing, and tree planting	Protects fish habitat and water quality by eliminating at grade crossings, and improving and protaecting riparian corridor.
Wasco County 50 SWCD	Local	Columbia Plateau Riparian Buffers	Stream Bank Restoration	Private	Wasco	Other	\$100,000 \$500,000	2001	2003	200	Miles	On-going	Riparian/Wetland Habitat	Deschutes, John Day and tribs		Provides funds to pay SWCD conservation planners to develop riparian buffer plans for the CREP and Continuous Conservation Reserve Programs	100 stream miles in riparian buffers to date, 30 + miles in planning stages, and a constant influx of new signups (countywide data)
Wasco County 51 SWCD	Local	Anderson Ditch Piping	Other	Private	Wasco	State	\$10,000- \$25,000	2002	2003	1	Miles	On-going	Riparian/Wetland Habitat	Threemile Creek (Trib of White R)	Purple	Pipes a private irrigation ditch	Creates an on-demand system, reduces withdrawals and eliminates most tailwater.
Wasco County 52 SWCD	Local	Forman Feedlot Relocation	Riparian	Private	Wasco	Other	\$10,000- \$25,000	2002	2003	1	Miles	On-going	Riparian/Wetland Habitat	Indian Creek (Trib of Trout Creek)	Blue	Relocates a feed lot out of riparian corridor onto uplands. Develops water sources, installs fences. Mulitple funding sourcesincludes state, fed and landowner	Allows riparian recovery, reduces or eliminates organic waste into stream
Wasco County 53 SWCD	Local	White River Wire Fencing	Upland Habitat Restoration	Private	Wasco	State	\$100,000 \$500,000	2002	2003	2000	Acres	On-going	Upland Habitat	Buck Hollow, Bakeoven, Deschutes R	Purple	Provides funding to replace fences destroyed by wildfire and reseed. Practices are necessary to ensure good upland pasture mgmt.	Allows Reestablishment of grass stands and rotational grazing system.
Portland General 54 Electric	Private	Water Quality Studies	Monitoring		Jefferson e	Private		1996				On-going	Water Quality	Deschutes Basin	Blue	Several studies including monitoring program with continuous temp and grab sample pH, turbidity, chlorophyll a, zooplankton, etc.	
Portland General	Private	Geomorpholog v Studies	Monitoring		Jefferson e	Private			1998				Fish Habitat	Deschutes River	Brown	Several studies on geomorphology of Deschutes Basin concentrating on Pelton Round Butte Project waters and downstream	

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			Organi zation			Land		Funding	Budget for	Project Start	Project End	Proiect	Proiect	Proiect	Limiting Factor or Eco Process		Mapped		
I	D	Organization	Туре	Project Title	Project Type	Owner	County	Source	Project	Date	Date	Size	Units	Status	Addressed	Stream Name	Color	Project Description	Results
	56	Portland General	Private	Fish population research and monitoring	Monitoring		Jefferson e	Private		1995				On-aoina	Fish Habitat	Deschutes Basin	Green	Several studies to determine life history patterns, diseases, and needs of bull trout, kokanee, rainbow, steelhead, spring chinook, signal crayfish. Includes monitoring program.	
	57	Portland General Electric	Private	Engineering Studies	Monitoring		Jefferson	Private		1995				On-going	Fish Habitat	Deschutes River	Pink	Various studies to determine and engineering solution to water quality problems, redirection of reservior currents and other barriers to fish passage.	
	58	Deschutes Basin Land Trust	Private	Metolius Preserve	Combination	Private No	Jefferson	Private	>\$500,00 0	2002	2001+	1240	Acres	On-going	Multiple	Lake Creek (South, Middle, and North Forks)		Acquistion of developmt-threatened fish/wildlife habitat in Metolius sub-basin. Lake Crk provides current bull trout & redband habitat, & potential sockeye & spring chinook habitat. & includes primary winter range for Metolius Elk herd, exc. Bird habitat	as of 3/03, raised \$1.7 of \$3million project cost. Mgmt planning and restoration begins 7/03. Focus: protectin and enhacement of fish and wildlife habitat.
	59	Deschutes Basin Land Trust	Private	Indian Ford Creek Instream Flow Enhancement	In-stream Flow Restoration	Private	Deschutes	Other	<\$1,000	2002	2003	100	Acres	On-going	Fish Habitat, Water Quality and Quantity	Indian Ford Creek		Transfer of approx. 2cfs insteram as result of surface to ground water conversion. Decommissioning of 4 mile long, leaky irrigation ditch. Paterning with DRC and OWT.	Awaiting permit approvals from Water Resources Dept.
	60	Deschutes Basin Land Trust	Private	Trout Creek Conservation Area	Combination	County	Deschutes	Private	<\$1,000	1997	2011+	160	Acres	On-going	Multiple	Trout Creek		Easement protects a rare wildflower (Peck's Penstemon) which threatened to derail a land exchange between the Des. Natl. Forest, Des. County and the Sisters School Dist.	Working with Sisters School Dist., UDWC, Native Plant Society, Des. Natl. Forest and local landowners to created a management plan and cirricula to engage local students in conserving this property's natural resources.
	61	Deschutes Basin Land Trust	Private	Thomas Preserve	Combination	USFS	Deschutes	Other	<\$1,000	2002	2011+	7	Acres	On-going	Multiple	Squaw Creek		Acquisition of a seven acre oxbow island on the upper Deschutes River.	Currently developing a management plan for the preserve. The plan will focus on managing the Preserve for migratory waterfowl use, as well as providing habitat for the elk, deer and other animals that frequent the island.
	62	Deschutes Basin Land Trust	Private	Indian Ford Meadow Preserve	Combination	Private No	Deschutes	Federal/S	>\$500,00	2000	2011+	63	Acres	On-going	Multiple	Indian Ford (Squaw Creek)		Acquisition and protection of the 63 acre Indian Ford Meadow on a primary tributary to Squaw Creek. The meadow provides redband trout habitat, spectacular views and important avian habitat.	No restoration necessary. Weed control (reed canary grass) and management plans in place; weed control efforts ongoing.
	63	Deschutes Basin Land Trust	Private	Alder Springs	Combination	USFS	Deschutes	Federal/S	>\$500,00	1998	2011+	840	Acres	On-going	Mulitple	Squaw Creek		With the Trust for Public Lands, we acquired and transferred 840 acre Alder Srpings Ranch to the Crooked River National Grasslands. This project protected Mule Deer winter range, bull trout habitat, chinook/steelhead future spawning habitat	
	64	Deschutes Basin Land Trust	Private	Hopkins- Young Conservation Easement	Upland Habitat Restoration	Private	Klamath	Local	\$100,000 \$500.000	2000	2011+	3045	Acres	On-aoina	Upland Habitat			development of old-growth Ponderosa pine forest east of Crescent. The Land Trust holds, monitors, and enforces this easement, which will also pomote development of additional old growth/late old structure forest.	All harves proposals approved by Land Trust; entire property monitored annually for compliance and effectiveness

IC) (Organization	Organi zation Type	Project Title	Project Type	Land Owner	County	Funding Source	Budget for Project	Project Start Date	Project End Date	Project Size	Project Units	Project Status	Limiting Factor or Eco Process Addressed	Stream Name	Mapped Color	Project Description	Results
	65 L	Deschutes Basin .and Trust	Private	Camp Polk Meadow Preserve	Combination	Private No	Deschute	s Private	>\$500,00 0	2000	2011+	148	Acres	On-going	Multiple	Squaw Creek		Historic Camp Polk meadow acquisition. Restoration of stream channel, wetland, uplands. Property contains what was historically among the most productive steelhead habitat on the creek. Provide educational and interp. Opportunities.	Completed first phases of wetlands/uplands restoration in 2002. Over 900 central Oregon kids have used site for outdoor ed. Through Wolftree and local programs. Assessing channel work with USACOE.
	66 F	Bureau of Reclamation- LCAO	Federal	Crooked River Fish Screens	Fish Passage Improvements	Other Fede	Crook	Federal	\$100,000 \$500,000). 2000	2003	1	Acres	Complete	Fish Habitat	Crooked River		Installation of a vertical fish screen at the diversion of the Crooked River Feed Canal.	No fish diverted from the river in to the canal system of Ochoco Irrigation District.
	67 F	Bureau of Reclamation- LCAO	Federal	Dillman Meadows	Wetland Restoration	USFS	Deschute	s Federal	\$25,000- \$50,000	2000	2003	10	Acres	Complete	Riparian/Wetland Habitat	l Deschutes River		Creation of ponds and the relocation of the spotted frog population from the toe drain at wickiup dam. Implementing a conservation plan as part of the One partice Deservation plan.	Frog population is monitored - after 1 full year, frogs seem to be doing fine.
	68 A	Sunriver Owners Association	Other	Conservation Planning/CRP	Other	Private No	Deschute	s Federal	\$100,000 \$500,000). 2003	2011+	128	Acres	On-going	Riparian/Wetland Habitat	I Deschutes River		of the Conservation Reserve Program. This will include pasture guidelines (rotation, weed control, manure mgmt.), riparian plantings, erosion control and other activities.	
	69 A	Sunriver Owners	Other	Sunriver Noxious Weed Control	Other		Deschute	s Private	\$100,000 \$500,000). 1998	2011+	3000+	Acres	On-going	Upland Habitat			Integrated Noxious Weed mgmt. In Sunriver, including control and education as part of an ongoing commitment.	
	70	DR DEQ and Deschutes Co.	State/Lo	La Pine National Demonstration Project	Other	Other	Deschute	s Federal	>\$500,00 0) 1995	2005			On-aoina	Water Quality	Deschutes and Little Deschutes watersheds		Install and field test innovative septic systems that provide advanced treatment of residential wastewater. The goal is to identify systems that will reduce the amount of nitrogen entering sole source aquifer of S. Des. Co. area.	Field testing portion of the project is approximately 50% complete with sampling to end in Dec. 2004. Results too extensive to report here.
	71 [DR DEQ and Deschutes Co.	State/Lo	La Pine National Demonstration Project	Other	Other Fede	Deschute	s Federal	>\$500,00 0	1999	2003			On-going	Water Quality	Deschutes and Little Deschutes watersheds		A comprehensive groundwater study and 3-D groundwater and nutrient fate and transport model of the La Pine subbasin. Model scenarios indicate the extent of potential nitrate contamination in the groundwater.	Preliminary results have just been made available and too extensive to report here. A public meeting is scheduled for the April May 2003 time frame.
	72 0	DR DEQ	State	TMDL Temperature Monitoring Program	Monitoring	Other Fede	Deschute	s State (OV	VEB)	2000	2000			Complete	Water Quality	Squaw Creek and Indian Ford Creek		continuous temp. data and Forward Looking Infrared Radiometry (FLIR) data were collected in the Squaw Creek Watershed during 2000. The FLIR survey was conducted July 28, 2000. The data will be used to develop a temp. TMDL for Squaw and Indian Ford Creek	In-stream temp. results are available from DEQ. The FLIR report/data is available from DEQ or the UDWC.
	73 0	DR DEQ	State	TMDL Temperature Monitoring Program	Monitoring	Other	Deschute	s State (OV	VEB)	2001	2001			Complete	Water Quality	Des., Lil Des., Cresecent, Odell, Fall River, Tumalo, Paulina, Metolius, Lake		Continuous temp. data and FLIR data were collected in the Upper and Little Deschutes Subbasins during 2001. The FLIR survey was conducted from July 23- 27, 2001. The data will be used to develop a temp. TMDL for streams in the 2 subbasins.	In-stream temperature results and FLIR report/data are available from DEQ

ſ			Organi zation			Land		Funding	Budget for	Project Start	Project End	Project	Project	Project	Limiting Factor or Eco Process		Mapped		
I	D	Organization	Туре	Project Title	Project Type	Owner	County	Source	Project	Date	Date	Size	Units	Status	Addressed	Stream Name	Color	Project Description	Results
	74 9	OR DEQ	State	Ambient Monitoring Program Regional Environ. Monitoring & Assess (REMAP)	Monitoring	Multiple	Deschutes	s,State	n, Klamath,	1998	2011+			On-going Complete	Water Quality Water Quality	Des., Lil Des., Metolius, Crooked Multiple streams in Des Basin above Iake Billy Chinook		DEQ monitors 151 sites statewide, every other month, to assess water qual. Conditions/ trends. There are 10 ambient sites in the Deschutes Basin. Parameters include BOD Alkalinity, Chlorophyll, Specidic Conductance, DO, Bacteria, nutrients, solids, tur Primary objective of Des. REMAP project was to assess status and trends of the aquatic natural resources of the Des. River Basin above Lake Billy Chinook. Riparian Habitat, water chemistry and biological information were collected at 55 sites over 2 yrs.	Results available from DEQ's Datatbase. Data is also evaluated through Oregon Water Quality Index, used to assess water quality trends. The index evaluates temp., DO, BOD, pH, fecal coliforms, total solids, nitrogen and phosphorus. Warer Chemistry, temp., and vertebrate summary reports are available from the DEQ website. They are too numerous to describe here.
F	13	ONDEQ	otate	(ICENDA)	Monitoring	wunpie	Descrittes	5, 561161301	i, Riamatri,	1990 pric	1330			Complete	Water Quality	Chillook			numerous to describe here.
	76	OR DEQ	State	TMDL Intensive Monitoring Program	Monitoring	Multiple	Deschutes	State		2001	2002			Complete	Water Quality	Multiple		July 16 and Nov. 5 weeks, '01, and Apr. 29 week, '02, DEQ did intensive water chem. Monitoring. Parameters: ph, alkalinity, conductivity, DO, turbidity, solids, nutrients. Data used in models to develop TMDLs for Upper & Lil Des. Subbasins.	Available from DEQ's database
	77	OR DEQ	State	TMDL Sediment/Turb dity Monitoring	i Monitoring	Multiple	Deschutes	State		2001	2001			Complete	Water Quality	Deschutes and Little Deschutes Rivers		Sediment/turbidity monitoring of the Des. River betwn Wicklup & Benham Falls. Continuous samplers collected daily composite samples from Mar. 30-Jun. 7, '01, & for the 1st week of each following month through Oct. '01. Data for TMDL dev.; 6 sites	Samples also collected from mouth of Lil. Des., Results available from DEQ's database.
	78 9	OR DEQ, USFS	State/ F	TMDL Monitoring in Odell Lake	Monitoring	USFS	Klamath	State		2001				Complete	Water Quality	Odell lake and tributaries		Water chem. Data was collected for use in water quality modeling to develop a TMDL for Odell Lake. Odell Lake is included on the 303(d) List for not meeting the pH standard. The parameters collected included: temp., pH, DO and nutrients.	Results available from DEQ's database. They indicate that a more intensive study is needed to more adequately determine the nutrient/pH dynamics of the systems and the causes. Grant fundign is currently being sought to expand the project.
	79	OR DEQ, USFS, BLM, ODFW, UDWC, OWRD, Grasslands	State	Continuous Temperature Monitoring	Monitoring	Multiple	Deschutes	State		1998 pric	pr			On-going	Water Quality	Upper and Middle Deschutes		Agencies have been collecting in-stream continuous temp. data in the Upper/Middle Des. For a number of years. Effort now coordinated by UDWC according to "Framework for Regional, Coordinated Monitoring in the Middle and Upper Deschutes River Basin" report	The ARcView File referenced with this project includes a list of all sites that have been monitored up through 2001. An updated list including 2002 data will be available from the UDWC at some point in the future.
	80	US Forest Service	Federal	Road Closures and Seeding	Road Abandonment/R estoration	USFS	Crook	Federal	\$5,000- 10,000	2002	2003	13	Miles	Complete	Water Quality	Trout Creek Watershed		Road closures, scarified, seeded and culverts pulled that are contributing to sediment to streams in the Trout creek watershed. Mid-Columbia River steelhead trout are present in this watershed.	Improvement (increase) in filtering riparian vegetation, educed sedimentation in streams; improvement in water quality (1 map enclosed for project 1)`
	81	US Forest Service	Federal	Riparian Planting	Stream Bank Restoration	USFS	Crook	Federal	\$10,000- \$25,000	2002	2003	11	Miles	Complete	Riparian/Wetland Habitat	Maury's West Side/Lookout Mountain Range		Planting ripairan rooted stock in the Maury Mountains to increase riparian habitat along streams to improve and increase riparian vag. Removed by the Hash Rock Fire of 2000.	Improve shade along streams, increase and improve filtering veg. In the watershed to improve water quality and spawning habitat for redband trout. (2 maps enclosed for project 2)

		Organi zation			Land		Funding	Budget for	Project Start	Project End	Project	Project	Project	Limiting Factor or Eco Process		Mapped		
ID	Organization	Туре	Project Title	Project Type	Owner	County	Source	Project	Date	Date	Size	Units	Status	Addressed	Stream Name	Color	Project Description	Results
			Derr Creek														Performed riparian planting activities on	
		C a da sal	Riparian	Stream Bank		\A/l= = = = =	Federal	\$1,000-	0000			Miles	Complete		Dam Craals		Derr Creek. Species included: willow and	Increase bank stability and
8	2 USES OCNOCO NE	Federal	Planting Wolf Crook	Restoration	USFS	vvneeler	Federal	\$5,000	2002		.4	Miles	Complete	water Quality	Derr Creek		alder.	snade.
			Riparian	Stream Bank				\$1.000-									Wolf Crek Species included: Willow and	Increase bank stability and
8	BUSES Ochoco NE	Federal	Planting	Restoration	LISES	Crook	Federal	\$1,000- \$5,000	2002		22	Miles	Complete	Water Quality	Wolf Creek		cottonwood	shade
0.		reacia	rianting	Restoration	0010	OTOOK	rederar	φ0,000	2002		2.2	WIIICO	complete	Water equality	Woll Oreek			Shade.
			Trib to N. Wolf															
			Creek Riparian	Stream Bank				\$1,000-									Performed riparian planting activities in N.	Increase bank stability and
8	4 USFS Ochoco NF	Federal	Planting	Restoration	USFS	Crook	Federal	\$5,000	2002		1	Miles	Complete	Water Quality	N. Wolf Creek		Wolf creek. Species include: willow	shade.
			Rager Creek														Performed riparian planting activities in	
		-	Riparian	Stream Bank	11050	0	-	\$1,000-	0000				0				Rager Creek. Species included: Willow	Increase bank stability and
8	USES OCNOCO NE	Federal	Planting Dewell Creek	Restoration	USFS	Crook	Federal	\$5,000	2002		.2	Miles	Complete	water Quality	Rager Creek		and cottonwood.	snade.
			Powell Creek Riparian	Stream Bank				\$1.000-									Performed riparian planting activities in	Increase bank stability and
8	USES Ochoco NE	Federal	Planting	Restoration	USES	Crook	Federal	\$5.000- \$5.000	2002		4	Miles	Complete	Water Quality	Powell Creek		Powell Creek. Species included: willow.	shade.
		, ouora.	, issued by		00.0	Crook	i odordi		2002				Complete					
			Little Summit														Performed riparian planting activities in	
			Creek Riparian	Stream Bank				\$1,000-							Little Summit		Little Summit Creek. Species included:	Increase bank stability and
8	7 USFS Ochoco NF	Federal	Planting	Restoration	USFS	Crook	Federal	\$5,000	2002		.6	Miles	Complete	Water Quality	Creek		Willow and alder.	shade.
			North Wolf															
		Federal	Creek Riparian															
0	USFS OCHOCO INF	recerai	Planung															
			Beaver Dam															
			Creek Riparian															
8	USFS Ochoco NF	Federal	Planting															
			Survey Creek															
9	USFS Ochoco NF	Federal	LW Placement															
0		Federal	Derr Meadow Restoration															
9		recerai	Residiation															
																	Provide for native fish passage into the	
																	Higgins Creek Watershed. Improve	
				Fish Passage				\$50,000-									water qulaity by decreasing sediment	
93	2 Jefferson SWCD	Other	Fish Habitat	Improvements	Private	Crook	State	\$100,000	2002	2003	2	Miles	Not Started	Fish Habitat	Higgins Creek		inflows and increasing cooling shad.	Pending
																	Pipe overflow water to a newly created	
																	sedimentation pond to filter sidement,	
								¢40.000									nutrients, pesticides, and topsoil and	
		044	Water Quality	Other	Deliverte	1-4	04-4-	\$10,000-	0000	0000	4.5		0	Water Quality	Willow Crook		prevent them from flowing into vvillow	Banding
9.	3 Jellerson SWCD	Other	water Quality	Other	Private	Jenerson	State	φ 2 5,000	2002	2003	4.5	Acres	On-going	water Quality	WIIIOW CIEEK		Repair pond which collects runoff from	Fending
											1						fields and irrigation tailwater which	
					1			\$5,000-									contains fertilizer, chemicals and	
94	4 Jefferson SWCD	Other	Water Quality	Other	Private	Jefferson	State	10,000	2003	2003	<1	Acres	Not Started	Water Quality	Frog Springs		sediment.	Pending
					L.			\$10,000-			1.						Relocate feed lots away from stream and	
9	5 Jefferson SWCD	Other	Water Quality	Other	Private	Wasco	State	\$25,000	2003	2003	1+	Miles	On-going	water Quality	Indian Creek		created livestock watering facilities.	Pending
~	lofforcon SMCD	Other	Seament	Othor	Drivete	loffersor	State	\$5,000-	2002	2002	1400	Foot	Not Start-		Trout Crock		Pipe open irrigation delivery ditch that	Ponding
9	Jenerson SwCD	Uner	Linnination	Uner	riivale	Jellerson	State	10,000	2003	2003	1400	reel	NUL SIARE	water Quality	TIOUL CIEEK	+	Reserved notive veg. For long term	Fending
					1			\$10.000-							Lake Billy		controls of erosion and wildlife habitat	
9	7 Jefferson SWCD	Other	Water Quality	Other	Private	Jefferson	State	\$25,000	2003	2003	143	Acres	Not Started	Water Quality	Chinook		support on sloping ground	Pending
			Sediment	-				\$5,000-								1	Pipe open irrigation delivery ditch that	, j
9	B Jefferson SWCD	Other	Elimination	Other	Private	Jefferson	State	10,000	2002	2003	1375	Feet	On-going	Water Quality	Mud Springs		overflows	Pending
					1												Monitoring Willow Creek for changes in	
			Stream										L .				stream due to projects and/or events	
9	Jetterson SWCD	Other	Monitoring	Monitoring	Private	Jefferson	State	¢5.000	2002	2011+			On-going	Fish Habitat	vvillow Creek		Off grade water facility to be an live to b	Pending
10		Other	UII Creek Watering	Stream Bank	Private	Wasco	State	ຈວ,000- 10,000	2001	2003	1	Miles	Completo	Riparian/Wetland	Antelone Crock		On creek water racility to keep livestock	Pending
10	Joenerson SWCD	Uner	valenny	Nesioralion	rivale	vvasCU	Siait	10,000	2001	2003	1	wines	Complete	ndullal	Citerope Citero	·	Monitoring Higgins Creek for changes	r enuling
			Stream								1						instream due to projects and/or events	
10	1 Jefferson SWCD	Other	Monitoring	Monitoring	Private	Jefferson	State		2002	2006-201	12	Miles	On-going	Fish Habitat	Higgins Creek		occurring along the stream.	Pending

		Organization	Organi zation Type	Project Title	Project Type	Land	County	Funding	Budget for Project	Project Start Date	Project End Date	Project Size	Project Units	Project Status	Limiting Factor or Eco Process Addressed	Stream Name	Mapped Color	Project Description	Results
Ē		organization	. , po	Watershed		e initi	county			Duto	Juio	0.20	00	otatao					
				Analysis					¢4.000									Dublish 400 Million Creat Metershad	
	102	Jefferson SWCD	Other	Proiect	Other	Private	Jefferson	State	\$1,000- \$5.000	1999				Complete		Willow Creek		Analysis documents	Complete
																		Eradicate Feral pigs to help reduce soil	
	103	Jefferson SWCD	Other	Feral Swine Control	Other	Private	Jefferson	State	\$5,000- 10,000	2001				Complete				erosion and habitat destroyed by pigs in Jeff. And Wasco Co.	58 Feral Pigs eradicated.
	104	lefferson SWCD	Other	Monitoring supplies	Other	Private	Jefferson	State	\$10,000- \$25.000	1999				On-going		Willow Creek		Purchase supplies to assist with continued montoring of Willow Creek.	Successfully completed.
																		Purchase native plantings for riparian	
									\$1.000-									restoration after 2 miles fencing placed to	
	105	Jefferson SWCD	Other	Plantings	Other	Private	Jefferson	State	\$1,000- \$5,000	1999		2	Miles	Complete	Fish Habitat	Willow Creek		access.	Successfully completed.
																		Purchase 5 temp. data loggers and software that will be used by the local high	
				Monitoring					\$5,000-									school class to monitor temperatures	
	106	Jefferson SWCD	Other	Equipment	Other	Private	Jefferson	State	10,000	1998	2011+			On-going	Fish Habitat	Willow Creek		throughout Willow Creek.	Monitoring is ongoing.
	107	lefferson SWCD	Other	Infiltration	Other	Private	lefferson	Federal	\$50,000 each	1998	2003			Complete	Fish Habitat	Trout Creek		Eliminate 11 push up dams and replace with infiltration calleries	Successfully completed
F			o unor	Gallonico		ato	Conclusion	. odorar	Guon		2000			complete	1 Ion Flabilat	field of one		Mar minited of genotion	Cubbeberany completed.
	108	Jefferson SWCD	Other	Sprinkler	Other	Private	Jefferson	Federal	\$100,000 \$500.000	2000	2006-201	217	Acres	Complete	Water Quality	Trout Creek		Converting from flood irrigation to sprikler irrigation	Project completed, monitoring is ongoing.
F			o unor	-,		ato	Conclusion	. odorar		2000	2000 201		10.00	complete					Project successfully
	400		0.1	Streamside	0.1	D :			\$50,000-	4000	0005	05		o	Riparian/Wetland	T. 10.1		Stream Bank stabilization to improve fish	completed, monitoring
-	109	Jefferson SWCD	Otner	Restoration	Other Stream Bank	Private	Jefferson	State	\$100,000	1999	2005	.25	Miles	Complete	Habitat Riparian/Wetland	Trout Creek		nabitat and water quality. Riparian fencing installed on both sides of	ongoing. Project completed
	110	Jefferson SWCD	Other	Fencing	Restoration	Private	Jefferson	State	\$25,000	1998	2004	2	Miles	Complete	Habitat	Willow Creek		stream to exclude livestock	monitoring ongoing.
				Solar Powered															
				Un-Site Watering	Stream Bank				\$5.000-						Riparian/Wetland			Solar powered off-site watering facility for	Project completed.
	111	Jefferson SWCD	Other	Facility	Restoration	Private	Jefferson	State	10,000	2000	2005			Complete	Habitat	Willow Creek		livestock excluded from riparian area.	monitoring ongoing.
																		Riparian fencing installed on both sides of	
					Stream Bank				\$100.000						Riparian/Wetland			watering facility, spring development.	Fencing completed.
	112	Jefferson SWCD	Other	CREP	Restoration	Private	Jefferson	State	\$500,000	2002	2011+	3860	Feet	On-going	Habitat	Trout Creek		plantings.	remaining practices pending
																		Riparian fencing installed on both sides of	
					Stream Bank				\$100,000						Riparian/Wetland	Amity/Board		watering facility, spring development,	
	113	Jefferson SWCD	Other	CREP	Restoration	Private	Jefferson	State	\$500,000	2003	2011+	5	Miles	Not Started	Habitat	Hollow Creeks		plantings.	To begin spring of 2003
	11/	lefferson SW/CD	Other	Wetland	Wetland	Private	lefferson	State	\$25,000- \$50,000	1000	2003	23	Acre/ft	Complete	Riparian/Wetland	Newbill Creek			
-	114 0	Jenerson Owod	Other	Ennancement	Residiation	Tilvate	Jenerson	Otate	ψ30,000	1333	2003	25	Acie/it	Complete	Tabitat	Tenmile			
																Creek/Tourt		Livestock Exclusion and water gap	
	115	lofforcon SW/CD	Othor	Riparian	Stream Bank	Privato	lofforcon	State	\$25,000- \$50,000	1000	2002	4.5	Miloc	Complete	Riparian/Wetland	Creek/Deschut		removal from creeks and river. Well for	Project Completed
	115	Jenerson SwcD	Other	Sediment	Residiation	Filvale	Jelleison	Siale	\$30,000	1999	2003	4.5	wines	Complete	Tabilal	es K.		iveslock watering.	Flojeci Completed.
				Retention		L.			\$10,000-										
-	116	Jefferson SWCD	Other	Dams	Other	Private	Jefferson	Other	\$25,000	2003	2005			Not Started	Water Quality	Trout Creek		Sediment retention from runoff.	To begin spring of 2003
				Irrigation															
				System Buried					\$10,000-										Project Completed.
-	11/	Jetterson SWCD	Other	Mainline	Other	Private	Jetterson	rederal	\$25,000	1999	2003	4340	⊢eet	Complete		I rout Creek		Buried Mainline	Project Completed
				Berm														Remove channel straightening and "flood	
				Removal/Chan	la stassa El				. ¢500.00									control" berms installed in 1965.	Deserved to be started in
	118	Jefferson SWCD	Other	Reconstruction	Restoration	Private	Jefferson	Federal	>ຈວປປ,00 0	2003	2011+	8	Miles	Not Starter	Riparian/wetiand	Trout Creek		floodplain, and plant riparian forest buffer.	2003
F			201				2011010011	. caorar	\$5,000-			-					1		
	119	Jefferson SWCD	Other	Pond - EQIP	Other	Private	Jefferson	Federal	10,000	2000	2003	1		Complete	1	Trout Creek	1	Pond - EQIP	Project Completed.

					1								1						
			Organi					-	Budget	Project	Project				Limiting Factor				
	-	rganization	Zation	Project Title	Project Type	Land	County	Funding	tor Project	Start	Ena	Project	Project	Project	or Eco Process	Stream Name	Mapped Color	Project Description	Poculte
F		iganization	туре	r toject title	Појесттуре	Owner	county	Jource	rioject	Date	Date	0120	Unita	otatus	Audresseu	otream Name	00101		Reduced water loss by
																			approx. 20300 acre/ft. per
	N	orth Unit Irrigation		Main Canal	In-stream Flow				>\$500,00										year. Water went back to N.
-	120 L	istrict	Special	Lining	Restoration	Private	Deschutes	Local	0	Prior to 1	1998	11.5	Miles	Complete	Water Quantity		Blue	Lined 11.5 Miles of main canal.	Unit ID.
																		removed old silt pond. Silt pond was no	
				Silt Pond														longer needed. It was built to catch	
Ι.	121 F	lorth Unit Irrigation	Special	Removal/	In-stream Flow	DI M	Deschutes	Other M	\$100,000	2002	2002	1200	Foot	Complete	Water Quantity		Blue and	logging debris from mills. It was being	Project just completed; no
-		istrict	Special	Canar Lining	Residiation	DLIVI	Descriutes		\$300,000	2003	2003	1300	reel	Complete	Water Quantity		Diue anu	used as a party place.	Conserved water by lining
																			canal. Half of conserved
		lorth Unit Irrigation	Special	51-4 Piping	In-stream Flow	Drivete	leffereen	Other M	\$100,000	1009	2001	27000	Faat	Complete	Water Quantity		Dive and	Piped 27000 ft. of canal 51-4. 598 acft of	water went to N. Unit ID and
-		ISTICT	Special	Project	Restoration	Private	Jenerson	Other, Mit	\$500,000	1998	2001	27000	Feet	Complete	water Quantity		Blue and	water were conserved.	nair went instream.
	N	orth Unit Irrigation		58-1 Piping	In-stream Flow				\$100,000										
-	123 L	istrict	Special	Project	Restoration	Private	Jefferson	Federal	\$500,000	2003	2004	17000	Feet	On-going	vvater Quantity		Blue, Yell	Piping total of 17000 feet of canal.	Project underway, no results.
																			conserved water went to N.
	N	orth Unit Irrigation		L-52 Piping	In-stream Flow				\$100,000									Piped 12600 feet of lateral canal (L-52).	Unit ID and half went
_	124 C	listrict	Special	Project	Restoration	Private	Jefferson	Other	\$500,000	Prior to 1	1997	12600	Feet	Complete	Water Quantity		Blue	Conserved 433 acft of water.	instream.
	U	pper Deschutes			Instream Habitat				\$50.000-									Bull Trout spawning habitat restoration on	
	125 V	atershed Council	Private	Trapper Creek	Restoration	Federal	Klamath	State	\$100,000	2002	2003	2000	Feet	On-going	Fish Habitat	Trapper Creek		Odell Lake	
		pper Deschutes		Log Deck Park Riparian/Wetla	Wetland				\$50 000-						Riparian/Wetland	Deschutes		enhancement/restoration at Log Deck	
	126 V	atershed Council	Private	nd Rest.	Restoration	Other Fede	Deschutes	State	\$100,000	2003	2005	2600	Feet	Not Started	Habitat	River		park, Bend.	
				Alder Springs															
	127 V	pper Deschutes	Private	Road Obliteration	Instream Habitat	Other Fed	lefferson	State	\$50,000-	2001	2003	2000	Feet	Complete	Lipland Habitat	Squaw Creek		Road restoration to manage sediment	
-	121 1		1 maio	Sunriver Fish	restoration	Other Fed	Jonerson	Olule	φ100,000	2001	2000	2000	1 001	complete	opiana nabilat	oquan oreck			
	U	pper Deschutes		habitat	Instream Habitat				\$50,000-							Deschutes		Large woody material placement in-	
_	128 V	/atershed Council	Private	enhancement	Restoration	Private	Deschutes	State	\$100,000	2000	2003	3.5	Miles	Complete	Fish Habitat	River		stream to enhance fish habitat.	
																		needs to be replaced to meet state or	Improved screening to
																		federal guidelines. The district is aware of	prevent/reduce the number of
	S	walley Irrigation		New Fish	Fish Passage	Deliverte	Deselutes	Deliverte	\$50,000-	0000	2005			Net Oterter	Fish Ushing	Deschutes		this and is planning on doing this work in	fish entering the irrigation
-	129 L	ISTICT	Special	Screen	Improvements	Private	Descnutes	Private	\$100,000	2003	2005			Not Started	FISH Habitat	River		City of Bend is paying Swalley to	canal system.
																		complete an engineering study to pipe	
																		approx. 6 mi. of main canal for use by city	Study nearly complete. Once
					Agricultural/Ran													tor mitigation credits that can be used by them to drill a well. The water saved will	tinished, Swalley will meet
	s	walley Irrigation			geland				>\$500,00							Deschutes		remain in the middle Des. & benefit	next step and related funding
_	130 D	istrict	Special	Piping Study	Improvement	Private	Deschutes	Other	0	2001	2003			On-going	Fish Habitat	River		stream/habitat.	issues.
1																		Abandoned 9 miles of Upper Columbia	12 miles of restored stream
1	Т	umalo Irrigation		Tumalo Creek	In-stream Flow				>\$500.00									miles of Tumalo Creek by relocating the	20cfs saved in transmission
	131 C	istrict	Special	Irrigation	Restoration	Usfs and F	Deschutes	Federal a	0	Prior to 1	1994	12	Miles	Complete	Water Quantity	Tumalo Creek		diversion	loss went back to district.
		umalo Irrigation	Special	Red Rock	In-stream Flow	Drivete	Deschutes	Fodoral o	>\$500,00	Drior to 1	1005	800	Faat	Complete	Water Quantity			Replaced leaky wood pipe and replaced	aqued E. C. of a book to district
\vdash	132 L	umalo Irrigation	opecial	ырнон	In-stream Flow	rivate	Deschutes	r euerai a	>\$500.00	FILOF TO 1	1990	090	1-66(Complete	water quantity	+		Removed leaky wooden flume replaced	Saveu 5-0 CIS DACK tO DISTRICT.
	133 D	istrict	Special	Flume #4	Restoration	Private	Deschutes	Local	0	2001	2001	470	Feet	Complete	Water Quantity			with underground steel pipe.	Saved 5-6 cfs back to district.
1	T	umalo Irrigation	0	Webbee	In-stream Flow	Driverte	Deselver	Federal	>\$500,00	1000	2000	c00	F	O a martine (Water Oversti			Removed leaky wooden flume, replace	
H	134 L	ISTICT	Special	vvebber	Restoration	Private	Descnutes	rederal a	IU	1999	2000	690	reet	Complete	vvater Quantity			with 84 steel pipe	1-2 CIS DACK TO DISTRICT.
1																			
1	T	umalo Irrigation	.		In-stream Flow				\$100,000									Removed leaky wooden flume, replace	
H	135 C	ISTICT	Special	Ir.ippie	Restoration	Private	Deschutes	⊢ederal a	12200,000	1999	2000	690	reet	Complete	vvater Quantity			with 84" steel pipe	
1																			More accurate
1	Т	umalo Irrigation		L.			L.	L.	\$100,000	1								Installing telemetry equipment at the head	measurements will result in
1	136 C	ustrict	Special	I l elemetry	Monitoring	Multiple	Deschutes	Federal	1\$500,000	1999	1	1	1	On-going	Water Quantity	1	1	and tail of diversions across the district.	more precision diversions.

-										-								1
		Organi zation			Land		Funding	Budget for	Project Start	Project End	Project	Project	Project	Limiting Factor or Eco Process		Mapped		
ID	Organization	Туре	Project Title	Project Type	Owner	County	Source	Project	Date	Date	Size	Units	Status	Addressed	Stream Name	Color	Project Description	Results
	Tumalo Irrigation			In-stream Flow				>\$500,00									Piped one mile of canal using 84" plastic	
1	37 District	Special	Pipeline 3B	Restoration	Private	Deschutes	Federal a	0	2002	2002	1	Miles	Complete	Water Quantity			pipe.	10 cfs saved back to district.
1:	38 District	Special	Pipeline 2B	In-stream Flow Restoration	Private	Deschutes	Other	>\$500,00	2000	2000	1100	Feet	Complete	Water Quantity			Piped 1100 feet of leaky canal	saved 3 cfs back to district
	Tumalo Irrigation	opoolai	River's Edge	In-stream Flow	·····	Dootinatoo	01.10.	>\$500,00	2000	2000			Complete	Trator Quantity			ripod ribo loor of loaky canal	
1	39 District	Special	piping	Restoration	Private	Deschutes	Federal a	10	2003	2003	1200	Feet	Complete	Water Quantity			Piped 1200 feet of leaky canal	Saved 5cfs back to district.
	Tumalo Irrigation		Bend Feed	In-stream Flow				\$100,000										
1.	40 District	Special	Canal	Restoration	Private	Deschutes	Local	\$500,000	1999	1999	1200	Feet	Complete	Water Quantity			Piped 1200 feet of leaky canal.	Saved 5 cfs back to district.
																	Pined 2 75 miles of leaky canal Linder	
	Tumalo Irrigation		Davis Linder	In-stream Flow				\$100,000									pipeline was 2 miles, Davis Fill Lateral	
1	41 District	Special	pipeline	Restoration	Private	Deschutes	Federal a	\$500,000	Prior to 1	1998	2.75	Miles	Complete	water Quantity			was 3/4 mile.	3 cfs saved back to district.
4	Tumalo Irrigation	Special	Highland	In-stream Flow	Drivete	Deschutes	Drivoto ou	\$1,000-	2002	2002	25	Mileo	Complete	Water Quantity			Piped a quarter mile of leaky canal and	1 of coved back to district
- 12	42 District	Special	Fillect	Residiation	Filvale	Deschutes	Private ar	\$5,000	2002	2002	.20	willes	Complete	Water Quantity				pending; plan is to have
																	Expansion of existing wetlands adjacent	approx. 5-10 acres of
	Oregon Dept. of	Chata	Crooked River	Wetland	Country	Orrali	Fadaral	\$100,000	-	2005	c.		Net Oteste	Riparian/Wetland			to the Crooked, removal of grazing from	emergent wetlands and
1.	43 Transportation	State	Mitigation	Restoration	County	Crook	Federal	\$500,000	2003	2005	5	Acres	Not Starte	CHADITAT	Crooked River	crooked	wetland areas.	restored riparian nabitat.
			Culver															restoration of small wetland
	Oregon Dept. of		Railroad	Wetland		1. //	-	\$100,000		0004	10			Riparian/Wetland	я		Removal of roadbed to restore underlying	area and creation of one
1.	44 I ransportation	State	Crossing	Restoration	County	Jefferson	Federal	\$500,000	2003	2004	.13	Acres	Not Starte	Habitat		lower	wetlands and reconnect two wetlands.	continuous wetland.
	Oregon Dept. of	_		In-stream Flow	_			\$100,000				_			North Unit Main			
1.	45 Transportation	State	Riley bridge	Restoration	State	Deschutes	Federal	\$500,000	2003	2005	300	Feet	Not Starte	Water Quality	Canal	Upper	Pipe canal where it passes under US 97	portion of canal is piped.
																		slopes will be stabilized with
																	installation of biostabilization consisting of	combination of primitive
1	Oregon Dept. of	Stata	Biggs-Wasco	Stream Bank Restoration	State	Shormon	Endoral	\$100,000	2002	2005	500	Foot	Not Starta	Riparian/Wetland	Spanish Hollow	Lower	seed filled sandbags, willow cuttings, and	structures, plantings and
1.		State	Diggs-Wasco	Restoration	Sidle	Sherman	reuerar	φ300,000	2003	2003	500	reel	Not Starte	Tabitat	opanish holiow	Lower	Project involved decommissioning a	Rehab has taken and
			Butler Canyon	Road													stream crossing within the quarry and	channel is flowing well.
1	Oregon Dept. of	Stata	Quarry	Abandonment/R	Privato	Wasaa	State	\$5,000-	2002	2002	1	Acros	Complete	Fich Habitat	Butler Canyon	Lower	rehabilitating the streamband and channel	Habitat has been restored to
- 12	+/ Transportation	Slale	restoration	estoration	Filvale	Wasco	State	10,000	2002	2003	1	Acres	Complete	FISH Habitat	Cleek	Lower		reliect surrounding area.
																	Shoulder of road eroding and pavement is	
																	undercut, crumbling. To rebuild slop and	
																	below the high water mark and no impacts	
			OR 216														to existing riparian veg expected. Rehab	
	Oregon Dept. of		Shoulder	Stream Bank	T (1) (0	\$1,000-		0000				Riparian/Wetland	Winter Water		will involve willow planting for addtl	N
1.	48 I ransportation	State	Lower	Restoration	I ribai	vvasco	State	\$5,000	2003	2003	.1	Acres	Not Starte	Habitat	Сгеек	Lower	Stabliza	No construction yet.
			Crooked R.														coordinated by Crooked R Watershed	
	US Fish and Wildlife		Channel	Stream Bank	D	0	-	\$50,000-		0000	<u>_</u>		.		Lower Crooked		council: DRC, OWEB and ODFW major	
1.	49 Service	Federal	Restoration	Restoration	Private	Crook	Federal	\$100,000	2003	2003	6	Miles	On-going	Water Quality	River	Upper	contributors.	improved water quality.
	US Fish and Wildlife		Juniper	Upland Habitat				\$5,000-							Upper Crooked			
1	50 Service	Federal	Removal	Restoration	Private	Crook	Federal	10,000	2003	2003	250	Acres	On-going		River Basin	Crooked	removal of juniper	upland habitat restoration.
																	Fish ladder for unstream passage, which	
																	is needed to complement	upsteam passage to 70 miles
			Opal Springs														upsteam/downstream passage and	of the Crooked River for bull
1	US Fish and Wildlife	Endoral	Dam Fish	Fish Passage	Privato	lofforcon	Othor	\$100,000	2002	2005	70	Miloc	Not Starta	Fish Habitat	Crooked River	uppor	anadromous reintroduction a the Pelton	trout, steelhead, chinook
		rederal		mprovements	rivale	Jenerson	Julei	\$500,000	2002	2003	10	NIII62	NUL Starte	un ion nabilal		apper	Placed Ig. Woody material, org. matting,	
																	willow, sedges and spirea along 1000 ft.	
																	of eroding sterambank on the Des. R.(1/2	
			Wickiup											Water			streambank stability. Adjacent uplands	
1	Oregon Dept. of		Bioengineering	Stream Bank				\$50,000-						Quality/Fish			were planted with 500 ponderosa pine	
1	52 Fish and Wildlife	State	Project	Restoration	USFS	Deschutes	Multiple	\$100,000	2001	2002	1000	Feet	Complete	Habitat	Deschutes R.	1	seedlings.	Unknown at present.

			Organi zation			Land		Funding	Budget for	Project Start	Project End	Project	Project	Project	Limiting Factor or Eco Process		Mapped		
IC	0	Organization	Туре	Project Title	Project Type	Owner	County	Source	Project	Date	Date	Size	Units	Status	Addressed	Stream Name	Color	Project Description	Results
	153 6	Dregon Dept. of	State	Beith Fish Habitat Restoration Project	In-stream Habitat Restoration	Private	Deschutes	s Multiple	\$1,000- \$5,000	2001	2001	1000	Feet	Complete	Water Quality/Fish Habitat	Deschutes R		Installed 25 trees instream to provide fish habitat and reduce erosion adjacent to a steen 30 foot high bank	Project is successfully reducing erosion. Monitoring over next 5 yrs. Will determine if this is a permanent solution
F			Olulo	Austin Fish	ricoloration	. mulo	Dooonatoo	, manpio	\$0,000	2001	2001	1000		Complete	Tabilat	Decondice Iti		oloop oo loot nign banki	Several tons of sediment
	0 154 F	Oregon Dept. of Fish and Wildlife	State	Habitat Restoration Project	In-stream Habitat Restoration	Private	Deschutes	s Other	\$5,000- 10,000	2001	2001	300	Feet	Complete	Water Quality/Fish Habitat			Installed 7 large trees instream to reduce erosion and provide habitat.	have been trapped and creek channel has moved away from bank by 8-10 ft.
	C	Oregon Dept. of			In-stream Habitat				\$1,000-						Water Quality/Fish			Objective was to restore bank stability and fish habitat from Harper Bridge to Sunriver Marina by planting nearly 5000 willows and placing 300 whole trees along the banks of both sides of a 3.5 mile	Hundreds of tons of sediment have been deposited at the project site. Success of
_	155 F	ish and Wildlife	State	Sunriver I	Restoration	Multiple	Deschutes	s Multiple	\$5,000	Prior to 1	2002	7	Miles	Complete	Habitat	Deschutes R.		stretch of the Deschtues.	planting was varied.
	0 156 F	Dregon Dept. of Fish and Wildlife	State	La Pine State park Willow Planting	In-stream Habitat Restoration	State	Deschutes	s Multiple	<\$1,000	Prior to 1	2001	8	Miles	Complete	Water Quality/Fish Habitat	Deschutes, Little Des?		Experiment with willow plating on a medium slope area with a gravel toe. 900 willow stakes were planted in 2001 along 4 miles of river on both sides. Trees were placed on streambank in 1997.	Success varied from 5% to 25% depending on location. Trees that were placed in 1997 need to be repositioned because they are not diverting water.
	(157 F	Dregon Dept. of Fish and Wildlife	State	Odell Creek Phase I & II	In-stream Habitat Restoration	USFS	Deschutes	s Multiple	\$1,000- \$5,000	2001	2001	3500	Feet	Complete	Water Quality/Fish Habitat	Odell Creek		Replace cable that rusted out and pull wood back to the cahnnel that floated away from projects that occurred in '92 and '94. Each phase treated 1500 ft of creek.	Cable was successfully replaced. Wood was noit moved due to equipment problems. Time ran out and fish were spawning by the time equipment was available.
	0 158 F	Dregon Dept. of Fish and Wildlife	State	Oldham Sedge Planting	In-stream Habitat Restoration	Private	Deschutes	s Other	\$1,000- \$5,000	2001	2001	700	Feet	Complete	Water Quality/Fish Habitat	Deschutes R.		Planted 416 sedge clumps along 700 ft. of one side of Des. R.	Vegetation restoration of the site is complete. Final step will be to add more woody debris.
	1 159 (The Nature Conservancy	Private	Juniper Burn	Upland Habitat Restoration	Private No	Crook	Federal	\$1,000- \$5,000	1999	2003	30	Acres	Complete	Upland Habitat	Lost Creek		A cooperative fall prescribed burn was completed with BLM. Objective to reduce juniper population.	Monitoring results show that small junipers were reduced. However in areas where the fire burned, cheatgrass increased on site.
	1 160 (The Nature Conservancy	Private	USFS north boundary fire	Upland Habitat Restoration	Private No	Crook	Federal	\$1,000- \$5,000	2000	2003	300	Acres	Complete	Upland Habitat	Lost Creek		USFS and TNC conducted a spring prescribed burn. Objective to reduce fuel hazards.	No monitoring conducted. Unsure of results.
	1	The Nature		Lost Creek	In-stream Flow				\$5,000-			_						Creek crossings were graveled and	Project seems to be reducing
-	161 0	The Nature	Private	Noxious Weed	Upland Habitat	Private No	CTOOK	State	\$1,000-	2001	2003	5	Acres	Complete		LOSI CIEEK		TNC is controlling white top, russian	weed populations are
	162	Conservancy	Private	control	Restoration	Private No	Crook	Private	\$5,000	1999	2003	300	Acres	On-going	Upland Habitat	Lost Creek		knapweed and medusahead rye.	drastically reduced.
	163 0	The Nature Conservancy	Private	Ungulate exclosures	Instream Habitat Restoration	Private No	Crook	Federal	\$25,000- \$50,000	. 2001	2003	9	Acres	Complete	Riparian/Wetland Habitat	Lost Creek		Junipers were cut along steam to help protect deciduous woody vegetation. Five elk exclosures were built to protect riparian habiata and allow for recovery. Some planting was included.	Vegetation is beginning to recover.
	164 0	The Nature Conservancy	Private	head cut repair	Stream Bank Restoration	Private No	Crook	State	<\$1,000	2001	2003	200	Feet	Complete	Riparian/Wetland	Lost Creek		A small headcut on Lost creek with a less than 3 ft drop was repaired using fiber mat and veg. The project was conplete with volunteers in a day. TNC hired a consultant.	The project has held for 2 seasons now. Looks successful.
F	-			Junipers															
	165 0	The Nature	Privato	removed from	Upland Habitat Restoration	Private No.	Crook	State	\$1,000- \$5,000	2002	2003	10	Acres	Complete	Linland Habitat	Lost Creek	1 sites	Junipers were cut and removed from 10	vegetation is beginning to
	166	The Nature	Private	Juniper removal from	Upland Habitat	Private No	Crook	State	<\$1 000	2002	2003	8	Acres	Complete	Riparian/Wetland	Lost Creek	3 sites	There are 3 aspen patches found on the Juniper Hills preserve. Junipers were removed from within and around the stands.	Veretation is recovering
	100	Jongervandy	n nvate	100pon 410765	i tootoration	II IIVALO INU		Juaio	1~01,000	2002	2000		10000	Compiele	11 IGDILGL		0 3103	stands.	vogotation is recovering.

	D	Organization	Organi zation Type	Project Title	Project Type	Land Owner	County	Funding Source	Budget for Project	Project Start Date	Project End Date	Project Size	Project Units	Project Status	Limiting Factor or Eco Process Addressed	Stream Name	Mapped Color	Project Description	Results
F		Junization	. , po	Junipers		•	county	000.00		2410	Juio	0.20	•	oluluo	, luui oooou	ou ou in numo			Roound
	1 167 (The Nature Conservancy	Private	removed from creek	Stream Bank Restoration	Private No	Crook	State	\$1,000- \$5,000	2002	2003	30	Acres	Complete	Upland Habitat	Lost Creek		Junipers were cut and removed on 30 ft each side of a trib of Lost Creek.	Vegetation is beginning to recover.
	1 168 (The Nature Conservancy	Private	Mechanical Juniper removal studay	Upland Habitat Restoration	Private No	n Crook	State	\$10,000- \$25,000	2002	2003	20	Acres	Complete	Riparian/Wetland Habitat	Lost Creek		We are comparing 2 removal treatments. One with handcut chainsaw, lopped and scattered branches, and large wood removed with 4 wheeler. The other was removed with a hydroax and skidder. Wood will be piled and burned.	TNC is monitoring results.
	0 169 F	Dregon Dept. Of Fish and Wildlife	State	Trout Creek habitat restoration project	In-stream Flow Restoration	Private	Jefferson	Federal	\$100,000 \$500,000).) Prior to 1	2011+	20 Strea	Miles	On-going	Fish Habitat	Low Trout Creek (below Ashwood) & Antelope Creek	Red	20 stream miles riparian fence (mostly on tribs). One mile instream work, numerous low head check dams (Sagebrush Creek).	Moderate mainstem instream recovery. Mainstem Trout Crk insteam function limited by USACE berms. Tributary recover is good with increase riparian veg. And improved width to depth ratio. Modest increase in steelhead spawning/rearing. Flow limiting fctr
	(170 F	Dregon Dept. Of Tish and Wildlife	State	Trout Creek habitat restoration project	In-stream Flow Restoration	Private	Jefferson	Federal	\$100,000 \$500,000).) Prior to 1	2011+	30 strea	Miles	On-going	Fish Habitat	Upper Trout Creek (above Ashwood).	Yellow	30 stream miles riparian fence. Numerous log weirs, habitat boulders, and rock check dams.	Moderate mainstem recovery where berms are present. Trib recovery is good with increased riparian veg and improved width to depth ratios. Substantial increase in steelhead spawning and rearing. Instream flow still a limiting factor.
F	E	Bureau of Land		Ammons	Upland Habitat				\$10,000-							, í			
╞	171	Management	Federa	Chaining Burn	Restoration	BLM	Crook	Federal	\$25,000			694	Acres	Complete	Upland Habitat		BLM map	prescribed burn	Not reported.
	172 N	Bureau of Land Management	Federa	Sheep I Mountain Burn	Upland Habitat Restoration	BLM	Crook	Federal	\$50,000- \$100,000)		4000	Acres	Complete	Upland Habitat		BLM Map	prescribed burn	Not reported.
	173 M	Management	Federa	l Burn	Restoration	BLM	Crook	Federal	\$10,000- \$25,000			595	Acres	Complete	Upland Habitat		BLM Map	prescribed burn	Not reported.
	174 M	Bureau of Land Management	Federa	South Boundary Rx I Burn (F)	Upland Habitat Restoration	BLM	Crook	Federal	\$5,000- 10,000			388	Acres	Complete	Upland Habitat		BLM Map	prescribed burn	Not reported.
	E 175 M	Bureau of Land Management	Federa	South Boundary Rx Understory I burn (G)	Upland Habitat Restoration	BLM	Crook	Federal	\$10,000- \$25,000			1647	Acres	Complete	Upland Habitat		BLM Map	prescribed burn	Not reported.
	176 M	Bureau of Land Management	Federa	South Boundary Rx I burn (D)	Upland Habitat Restoration	BLM	Crook	Federal	\$10,000- \$25,000			1194	Acres	Complete	Upland Habitat		BLM map	prescribed burn	Not reported.
	E 177 N	Bureau of Land Management	Federa	South Boundary Understory I burn (E)	Upland Habitat Restoration	BLM	Crook	Federal	\$10,000- \$25,000			105	Acres	Complete	Upland Habitat		BLM map	prescribed burn	Not reported.
	E 178 M	Bureau of Land Management	Federa	Boundary Rx I Burn (B)	Upland Habitat Restoration	BLM	Crook	Federal	\$1,000- \$5,000			93	Acres	Complete	Upland Habitat		BLM map	prescribed burn	Not reported.
	E 179	Bureau of Land Management	Federa	South Boundary understory I burn ©	Upland Habitat Restoration	BLM	Crook	Federal	\$1,000- \$5,000			182	Acres	Complete	Upland Habitat		BLM map	prescribed burn	Not reported.
	180 M	Bureau of Land	Federa	Studhorse II	Upland Habitat Restoration	BLM	Crook	Federal	\$100,000 \$500.000	0-		5381	Acres	Complete	Upland Habitat		BLM Mar	prescribed burn	Not reported.

ID	Organization	Organi zation Type Project Ti	le Project Type	Land	County	Funding	Budget for Project	Project Start Date	Project End Date	Project Size	Project Units	Project Status	Limiting Factor or Eco Process	Stream Name	Mapped Color	Project Description	Results
-	organization	South			obuilty	Course	Troject	Dute	Dute	OILC	onno	olulus	Addressed	otream nume	00101		Results
		Boundary															
	Bureau of Land	Understory	Upland Habita	.t		L											
_	81 Management	Federal burn (A)	Restoration	BLM	Crook	Federal	<\$1,000			41	Acres	Complete	Upland Habitat		BLM Map	prescribed burn	Not reported.
	Bureau of Land	Gerry	Upland Habita	ıt			\$100,000).									
-	82 Management	Federal Mountain I	Burn Restoration	BLM	Crook	Federal	\$500,000)		9400	Acres	Complete	Upland Habitat		BLM map	prescribed burn	Not reported.
	Bureau of Land	South Dag	is Upland Habita	.t			\$10,000-										
_	83 Management	Federal Burn	Restoration	BLM	Crook	Federal	\$25,000			1022	Acres	Complete	Upland Habitat		BLM map	prescribed burn	Not reported.
	Bureau of Land	Maupin Bu	tte Upland Habita	at			\$50.000-										
	84 Management	Federal Burn	Restoration	BLM	Crook	Federal	\$100,000)		2977	Acres	Complete	Upland Habitat		BLM map	prescribed burn	Not reported.
	Bureau of Land	Owens Ju	hiper Upland Habita	.t	Creati	Federal	\$50,000-			1000		0	Lipland Habitat		DI Mara	Machanical juniper thinging	Not reported
	Bureau of Land	Liggett Tal	ble Upland Habita	BLIVI	Сгоок	Federal	\$5 000-	,		1022	Acres	Complete			вски тар		Not reported.
	86 Management	Federal Burn	Restoration	BLM	Crook	Federal	10,000			623	Acres	Complete	Upland Habitat		BLM map	prescribed burn	Not reported.
	Bureau of Land	Cave	Upland Habita	.t			\$5,000-										
_	87 Management	Federal Allotment	Burn Restoration	BLM	Crook	Federal	10,000			273	Acres	Complete	Upland Habitat		BLM map	prescribed burn	Not reported.
	Bureau of Land	Paulus No	rth geland				\$5.000-										
	88 Management	Federal Fence	Improvement	BLM	Crook	Federal	10,000			1	Miles	Complete	Upland Habitat		line Blue	fenced 1 mile.	Not reported.
			Agricultural/Ra	an													
	Bureau of Land	pine Ridge	geland	DIM	Creati	Federal	\$1,000-			-		0	I la la a d I la bitat		line Dhie	for and 5 miles	Nint and a start
	189 Management	Federal Fence Rep	Agricultural/Ra	BLIM	Сгоок	Federal	\$ 5,000			5	willes	Complete	Upland Habitat		line Blue	renced 5 miles.	Not reported.
	Bureau of Land	Millican Ca	ttle geland				\$10,000-									installed 15 cattle guards in Millican area	
-	90 Management	Federal Guards	Improvement	BLM	Crook	Federal	\$25,000			15	each	Complete	Upland Habitat		point red	at \$3000 each.	excluded cattle.
			Agricultural/Ra	an													
	Bureau of Land	Federal Conton Fo	geland	DIM	Creati	Federal	\$10,000-			4.5		0	Lipland Habitat		line blue		Not reported
-	191 Management	Federal Soniag Fe	Agricultural/Ra	an	Сгоок	Federal	φ 2 5,000			1.5	willes	Complete			line blue		Not reported.
	Bureau of Land	South Dry	geland				\$10,000-										
	92 Management	Federal Creek Fen	ce Improvement	BLM	Crook	Federal	\$25,000			1.5	Miles	Complete	Upland Habitat		line Blue	fenced 1.5 miles	Not reported.
																reduce juniper and pine so aspen can	
	Bureau of Land	Paulina As	pen Upland Habita	t DIM	Crook	Fodoral	\$5,000-			06	Acros	Complete	Lipland Habitat		poly blue	regenerate and provide forage and cover	Not reported
	195 Management		Agricultural/Ra	an	CIUUK	reuerai	10,000			90	Acres	Complete	Opiariu Liabilat		poly, blue	for widne.	Not reported.
	Bureau of Land	Dykstra	geland				\$5,000-										
	94 Management	Federal Pasture Fe	ence Improvement	BLM	Crook	Federal	10,000			1.3	Miles	Complete	Upland Habitat		line blue	fenced 1.3 miles.	Not reported.
		East Frede	rick Agricultural/Ra	an													
	Bureau of Land	Fence	geland				\$1,000-										
	95 Management	Federal Reconstru	ction Improvement	BLM	Crook	Federal	\$5,000			2	Miles	Complete	Upland Habitat		line Blue	fence construction on an allotment.	Not reported.
	Bureau of Land	Fehrenbac	her Agricultural/Ra	in			\$1.000-									2 fences. One is 5 miles and the other is	
	96 Management	Federal Reconstru	citon Improvement	BLM	Crook	Federal	\$5.000			1.5	Miles	Complete	Upland Habitat		line blue	1 mile.	Not reported.
			Agricultural/Ra	an									-				
	Bureau of Land		geland				\$5,000-										
_	97 Management	Federal Burke Fen	ce Improvement	BLM	Crook	Federal	10,000			1	Miles	Complete	Upland Habitat		line blue	1 mile of fence.	Not reported.
	Bureau of Land	Yreka Butt	e Ry I Inland Habita	at .			\$10.000-									prescribed burn to reduce juniper	
	98 Management	Federal Burn	Restoration	BLM	Crook	Federal	\$25,000			580	Acres	Complete	Upland Habitat		poly pink	habitat.	Not reported.
F	<u> </u>								1								
1		ZX Allotme	ent Agricultural/Ra	an			005.000										
	Bureau of Land	Fence	geland	BLM	Crook	Federal	\$25,000-			30	Miles	Complete	I Inland Habitat		line blue	30 Miles of fence	Not reported
H	a a manayement	West Butte			GIUUK	reuerai	φ00,000		-	30	WIIICS	Complete			in le blue		not reported.
		Juniper													1		
1	Bureau of Land	thinning	Upland Habita	it			\$100,000)-									
1 2	200 Management	Federal project are	a Restoration	BLM	Crook	Federal	\$500,000)	1	3306	Acres	Complete	Upland Habitat	1	BLM map	mechanical juniper cut	Not reported.

			Organi zation			Land		Funding	Budget for	Project Start	Project End	Project	Project	Project	Limiting Factor or Eco Process		Mapped		
ID	Organiz	zation	Туре	Project Title	Project Type	Owner	County	Source	Project	Date	Date	Size	Units	Status	Addressed	Stream Name	Color	Project Description	Results
20	Bureau	of Land	Fodorol	Frederick	Upland Habitat	DIM	Crook	Fodorol	\$10,000-			1000	Aoroa	Complete	Lipland Habitat		noly piply		Not reported
20	Invianaye	ment	reuerai	Upper Bear	Residiation	DLIVI	CIUUK	reuerai	φ23,000			1000	Acres	Complete	Opiariu Flabilat		poly pillk		Not reported.
		1		Juniper															
	Bureau	of Land		thinning	Upland Habitat				\$100,000	-									
20	2 Manage	ement	Federal	project area	Restoration	BLM	Crook	Federal	\$500,000	1		1924	Acres	Complete	Upland Habitat		BLM map	mechanical juniper cut	Not reported.
		1		Taylor Butte															
	Buroou	ofLond		Juniper	Lipland Habitat				\$50,000										
20	3 Manage	ement	Federal	Inning	Restoration	BLM	Crook	Federal	\$100.000			1194	Acres	Complete	Upland Habitat		BI M mar	mechanical juniper thinning area	Not reported
20	omanago	, mont	reactai	Upper	Redeloration	DEM	OTOOK	reactai	\$100,000			1104	710100	Complete	opiana nabilat		DEMINA	niconanical jampor anning area	i lot i opolitodi
				Prineville															
	Bureau	of Land		Res.Activity	Upland Habitat				\$50,000-									mechanical juniper cut around prineville	
20	4 Manage	ement	Federal	Plan area	Restoration	BLM	Crook	Federal	\$100,000	1		1145	Acres	Complete	Upland Habitat		BLM map	res.	Not reported.
	Bureau	ofLand		Taylor Butte	Lipland Habitat				\$50.000-										
20	5 Manage	ement	Federal	project area	Restoration	BLM	Crook	Federal	\$100.000			1194	Acres	Complete	Upland Habitat		BI M mar	#3	Not reported.
	Bureau	of Land	, odorai	Mecca Tree	Upland Habitat	DEM	CICON	, odorai					710100	Complete			Demma		
20	6 Manage	ement	Federal	Planting	Restoration	BLM	Crook	Federal	<\$1,000			1	Acres	Complete	Upland Habitat		point blue		Not reported.
		1		I.															
20	7 Manage	or Land	Federal	Fire rebab	Opland Habitat	BLM	lefferson	Federal	\$100,000	1		180	Acres	Complete	Lipland Habitat		noly blue		Not reported
20	/ Manage	ment	rederar		Residiation		Jenerson	rederar	φ300,000			100	Acres	Complete	opiand habitat		poly blue		Not reported.
	Bureau	of Land		Grass Valley	Upland Habitat				\$50,000-										
20	8 Manage	ement	Federal	Fire Rehab	Restoration	BLM	Wasco	Federal	\$100,000)		1000	Acres	Complete	Upland Habitat		poly pink	and scattered	Not reported.
	_			<u>-</u>	Agricultural/Ran														
20	Bureau	of Land	Fodoral	Harpham Flat	geland	DIM	leffereen	Fodorol	\$10,000-			1 5	Mileo	Complete	Lipland Habitat		noint blue		Not reported
20	sinanaye	ment	reuerai	rence	Agricultural/Ran	DLIVI	Jellerson	reuerai	φ23,000			1.0	willes	Complete	Opiariu Flabilat			2	Not reported.
	Bureau	of Land		Bully Point	geland				\$10,000-										
21	0 Manage	ement	Federal	Fence	Improvement	BLM	Wasco	Federal	\$25,000			5	Miles	Complete	Upland Habitat		line blue		Not reported.
	_				Agricultural/Ran														
04	Bureau	of Land	Carlanal	King Canyon	geland	DIM	1.44	C a da sal	-\$1 000				N 411	0	Lipland Habitat		line blue		Not reported
1	Tivianage	ment	Federal	Criterion	Agricultural/Ran	BLIN	Jenerson	Federal	<\$1,000			.1	willes	Complete			line blue		Not reported.
	Bureau	of Land		Boundary	geland				\$10,000-										
21	2 Manage	ement	Federal	Fence	Improvement	BLM	Jefferson	Federal	\$25,000			5	Miles	Complete	Upland Habitat		point blue		Not reported.
		1		Trout Creek															
04	Bureau	of Land	Carlanal	OHV Rehab	Upland Habitat	DIM	1.44	Co do col	-\$1 000				N 411	0	Lipland Habitat		line blue		Not reported
21	Siviariage	ment	rederal	project	Agricultural/Ran		Jenerson	rederal	<91,000		+	.4	willes	Complete			nne blue	+ +	Not reported.
	Bureau	of Land		Wood Side	geland	1			\$5,000-										
21	4 Manage	ement	Federal	Fence	Improvement	BLM	Jefferson	Federal	10,000			1	Miles	Complete	Upland Habitat		point blue		Not reported.
	Bureau	of Land		North Juniper	Upland Habitat				\$1,000-										
21	5 Manage	ement	⊦ederal	camp fence	Restoration	BLM	Jefferson	Federal	\$5,000		+	.3	Miles	Complete	Upland Habitat		point blue		Not reported.
	Bureau	ofland		Jones Canvon	reland				\$5 000-										
21	6 Manage	ement	Federal	Fence	Improvement	BLM	Jefferson	Federal	10.000			1	Miles	Complete	Upland Habitat		point blue		Not reported.
					Agricultural/Ran														
	Bureau	of Land		Salt Springs	geland				\$1,000-										
21	7 Manage	ement	Federal	Creek Fence	Improvement	BLM	Jefferson	Federal	\$5,000			.5	Miles	Complete	Upland Habitat		line blue		Not reported.
	Bureau	ofland		Buck Hollow	Agricultural/Ran	1			\$10,000										
21	8 Manage	ement	Federal	Fence	Improvement	BLM	Jefferson	Federal	\$25.000			5	Miles	Complete	Upland Habitat		point blue		Not reported.
<u> </u>	go			Trout Creek	Agricultural/Ran						1	-			-,	1			
	Bureau	of Land		Campground	geland				\$1,000-										
21	9 Manage	ement	Federal	Fence	Improvement	BLM	Jefferson	Federal	\$5,000			.2	Miles	Complete	Upland Habitat		point blue		Not reported.
				Criterion	Agricultural/Pag	1										1			
	Bureau	ofland		Iprotection	reland				\$1 000-		1								
22	0 Manage	ement	Federal	Ifence	Improvement	BLM	Jefferson	Federal	\$5.000	1		.5	Miles	Complete	Upland Habitat		line blue		Not reported.

	Organi zation			Land		Funding	Budget for	Project Start	Project End	Project	Project	Project	Limiting Factor or Eco Process		Mapped		
ID Organization	Туре	Project Title	Project Type	Owner	County	Source	Project	Date	Date	Size	Units	Status	Addressed	Stream Name	Color	Project Description	Results
		Macks Canvon	Agricultural/Ran														
Bureau of Land		campground	geland				\$1,000-										
221 Management	Federal	fence	Improvement	BLM	Jefferson	Federal	\$5,000			.5	Miles	Complete	Upland Habitat		point blue	9	Not reported.
		T N (1)	Agricultural/Ran	1													
222 Management	Federal	Fence	Improvement	BLM	lefferson	Federal	\$1,000-			5	Miles	Complete	I Inland Habitat				Not reported
ZZZ Management	reacta	1 childe	Agricultural/Ran		Centerson	reactai	φ0,000			.0	WINCO	Complete	opiana nabitat				Not reported.
Bureau of Land		Rock Corral	geland				\$1,000-										
223 Management	Federal	Spring	Improvement	BLM	Jefferson	Federal	\$5,000			.25	Acres	Complete	Upland Habitat		point red		Not reported.
Bureau of Land		Blue Gate	Agricultural/Ran	1													
224 Management	Federal	Parking Area	Improvement	BLM	Jefferson	Federal	<\$1.000			.25	Acres	Complete	Upland Habitat		point red		Not reported.
			Agricultural/Ran	1											P		
Bureau of Land			geland				\$5,000-										
225 Management	Federal	Sheep Spring	Improvement	BLM	Jefferson	Federal	10,000			.75	Miles	Complete	Upland Habitat		point red		Not reported.
Bureau of Land			deland				\$1 000-										
226 Management	Federal	Delude Spring	Improvement	BLM	Jefferson	Federal	\$5,000			.25	Miles	Complete	Upland Habitat		point red		Not reported.
Ŭ			•														
		N. Fk. Crooked	1														
Bureau of Land	Endoral	R. Berm	Instream Habita	IT DI M	Crook	Endoral	\$5,000-	2002		20	Foot	Complete	Fich Hobitat		point rod	Removal of stock pond berm and spillway	Not reported
227 Inditagement	reuera	Removal	Agricultural/Ran		CIUUK	reuerai	10,000	2002		30	reel	Complete	FISHTIADILAL		point red	channel. Floodplain reconstructed.	Not reported.
Bureau of Land		Reckman	geland				\$1,000-										
228 Management	Federal	Springs	Improvement	BLM	Jefferson	Federal	\$5,000			.5	Miles	Complete	Upland Habitat		point red		Not reported.
																install 30 cattle guards in various	
		BI M Cattle	Agricultural/Ran													10cations @ \$3000 each. BLM proj #:	
Bureau of Land		Guards (not	geland				\$50,000-									177,228,234, and 735104-05,107,114-	
229 Management	Federal	millican)	Improvement	BLM	Jefferson	Federal	\$100,000)		30	each	Complete	Upland Habitat		point red	117,120,122,125.	Not reported.
		North Stearns															
Bureau of Land	Fodorol	Water	In-stream Flow	DIM	Crook	Fodorol	\$1,000- \$5,000			-	Aaraa	Complete	water Quantity		line blue	storage tanks, troughs and pipelines for	Not reported
Bureau of Land	reuera	Brickie	In-stream Flow	DLIVI	CIUUK	reuerai	\$5,000-			.5	Acres	Complete	water quantity		line blue	ivestock and withine.	Not reported.
231 Management	Federal	Pipeline	Restoration	BLM	Crook	Federal	10,000			1	Miles	Complete	water Quantity		line blue		Not reported.
			Road													Road closures in the Sanford creek	
Bureau of Land	C a d a sel	Sanford Creek	Abandonment/R	2	Creat	E a da sal	\$5,000-			<u> </u>		Complete	Watar Quality		line and	watershed to reduce erosion and improve	Net we want of
232 Management	Federal	Road Closures	estoration	BLIVI	Crook	Federal	\$10,000			0	willes	Complete	water Quality		line red	water quality.	Not reported.
234 Fish and Wildlife					Deschute	s	\$25,000			3000	Feet	Complete	Water Quantity				
								1									
Bureau of Land	-	South Stearns	In-stream Flow			-											
266 Management	Federal	Pipeline	Restoration	BLM	Deschute	sFederal	\$5,000-1	0,000		1	Miles	Complete	water Quantity				Conserves 50-75 acre feet
267 Irrigation District	Special	Vermilyea	Restoration		Deschute	s	\$10,000-	\$25,000		3000	Feet	Complete	Water Quantity	Squaw Creek		Piped 3000 feet of the 7000 foot ditch.	per irrigation season.
Ŭ		, , , , , , , , , , , , , , , , , , ,														Eliminated 8000 feet of ditch. The 5 farms	
Squaw Creek			In-stream Flow											L		the ditch served were converted from	Conserves 500 acre feet per
268 Irrigation District	Special	Brown	Restoration				\$50,000-	\$100,000		8000	Feet	Complete	Water Quantity	Squaw Creek		flood to pressurized sprinklers.	irrigation season.
269 Irrigation District	Special	Pipeline	Restoration				\$50,000-	\$100.000		7200	Feet	Complete	Water Quantity	Squaw Creek		factor and lined 3 ponds.	per irrigation season.
200 migaton Biothor	opeoidi	i pomo	rtootoration				φ00,000	φ100,000		1200	1 001	Complete	Trator Quantity	Oquan Oreek			por migator occorri
																	Returned 1 cfs of 1885 senior
																	water right & 1 cfs junior
												1					Creek between SCID
																	diversion & Deggendorfer
												1					property. Eliminated ditch
]	1		Eliminated entire Thompson ditch - 7000	losses and conserves
Squaw Creek	Special	Thompson	In-stream Flow				\$50,000	\$100.000		7000	Feet	Complete	Water Quantity			reet. Unanged from flood to sprinkler	additional water due to
210 mgalon District	opecial	nompson	Restoration				φ00,000-	ψ100,000	+	1000	reel	Complete	water Quantity	Squaw Cieek		system.	Conserved 6 cfs. 3 cfs
Squaw Creek			In-stream Flow											1			dedicated to instream; 3 cfs
271 Irrigation District	Special	Cloverdale	Restoration				>\$500,00	00		14880	Feet	Complete	Water Quantity	Squaw Creek		Piped 14880 feet of canal.	to district farmers.

ID	Organization	Organi zation Type	Project Title	Project Type	Land Owner	County	Funding Source	Budget for Project	Project Start Date	Project End Date	Project Size	Project Units	Project Status	Limiting Factor or Eco Process Addressed	Stream Name	Mapped Color	Project Description	Results
	Squaw Creek			In-stream Flow													Piped 8000 feet of open ditch using HDPE	Conserved 200-300 acre feet
272	Irrigation District	Special	Schead	Restoration				\$25,000-	\$50,000		8000	Feet	Complete	Water Quantity	Squaw Creek		ADS pipe.	per irrigation season.
	Squaw Creek			In-stream Flow													Piped 6000 feet of a 7000 foot ditch using	Conserved 200-300 acre feet
273	Irrigation District	Special	B-Ditch	Restoration			Private	\$10,000-	\$25,000		6000	Feet	Complete	Water Quantity	Squaw Creek		culverts and PVC pipe.	per irrigation season.
																		Conserved estimated 600 acre feet per season and return a flow rate of 1.5 cubic.
	Squaw Creek			In-stream Flow													Piped 19.000 feet of Fryrear Ditch which	foot per second to Squaw
274	Irrigation District	Special	Fryrear	Restoration	Multiple			>\$500,00	00		19000	Feet		Water Quantity	Squaw Creek		serves 475 acres.	Creek.
			McKenzie															
	Squaw Creek		Canyon/Black	In-stream Flow				1										Permanent transfer of 1.2 cfs
275	Irrigation District	Special	Butte Canal	Restoration				>\$500,00	00					Water Quantity	Squaw Creek			of water to Squaw Creek.