

**Bonneville Power Administration
Fish and Wildlife Program FY99 Proposal**

Section 1. General administrative information

Teanaway River Instream Flow Restoration

Bonneville project number, if an ongoing project 9704900

Business name of agency, institution or organization requesting funding
Yakama Indian Nation

Business acronym (if appropriate) YIN

Proposal contact person or principal investigator:

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Subcontractors.

Organization	Mailing Address	City, ST Zip	Contact Name
Bureau of Reclamation	Box 1749	Yakima, WA 98907-1749	Jim Esget, YRBWEP Program Manager

NPPC Program Measure Number(s) which this project addresses.

2.1, 7.7, 7.8G, 7.8H, 7.11.C

NMFS Biological Opinion Number(s) which this project addresses.

N/A

Other planning document references.

U.S. Bureau of Reclamation, Draft Basin Conservation Plan for the Yakima River Basin Water Conservation Program, Section 4.2.1.4, Appendix IV-B (Washington State Clean Water Act 303[d] list); Yakima River Watershed Council, A 20/20 Vision, Section V.C. 1.a.

This project is an on-going collaborative effort involving the YIN, BOR, BPA, NPPC, State of Washington, NRCS, and local landowners. The “demonstrable support” is evidenced by the broad involvement of the various agencies and the willingness of private landowners to participate in the water conservation program.

Subbasin.

Yakima River

Short description.

Implement delivery system and on-farm water conservation projects, such as piping head ditches or conversion to sprinkler irrigation, and transfer saved water to instream flows in the Teanaway River.

Section 2. Key words

Mark	Programmatic Categories	Mark	Activities	Mark	Project Types
X	Anadromous fish		Construction	X	Watershed
+	Resident fish		O & M		Biodiversity/genetics
	Wildlife		Production		Population dynamics
	Oceans/estuaries		Research	+	Ecosystems
	Climate		Monitoring/eval.		Flow/survival
	Other	X	Resource mgmt		Fish disease
			Planning/admin.		Supplementation
			Enforcement		Wildlife habitat en-
			Acquisitions		hancement/restoration

Other keywords.

Instream flows; water conservation

Section 3. Relationships to other Bonneville projects

Project #	Project title/description	Nature of relationship
	N/A	

Section 4. Objectives, tasks and schedules

Objectives and tasks

Obj 1,2,3	Objective	Task a,b,c	Task
1	Develop preliminary plans for water conservation project.	a	Meet with landowner to determine interest in water conservation project.
1		b	Determine extent and scope of potential water conservation project.
1		c	Produce preliminary plans for water conservation project, including engineering and cost estimates.
2	Develop final plans and designs.	a	Develop and execute agreement with cooperating landowner.
2		b	Based on preliminary plans, develop final plans and designs.
3	Construct water conservation project.	a	Based on final plans and designs, produce and release request for bids.
3		b	Receive bids, open bids, award contract.
3		c	Monitor construction.
3		d	Final inspection, turn project over to landowner for operation.
4	Transfer saved water to instream flows.	a	Monitor water diversions, transfer saved water to state trust water account for instream flows.

Objective schedules and costs

Objective #	Start Date mm/yyyy	End Date mm/yyyy	Cost %
1	10/1998	12/1998	5.00%
2	11/1998	3/1999	10.00%
3	5/1999	9/1999	85.00%
4	9/1999	9/1999	
			TOTAL 100.00%

Schedule constraints.

Project is predicated on the foundation that acceptable conservation plans can be developed with interested landowners. Preliminary discussions have already occurred with interested landowners as part of on-going project.

Completion date.

1999

Section 5. Budget

FY99 budget by line item

Item	Note	FY99
Personnel		
Fringe benefits		
Supplies, materials, non-expendable property		
Operations & maintenance		
Capital acquisitions or improvements (e.g. land, buildings, major equip.)		
PIT tags	# of tags:	
Travel		
Indirect costs		
Subcontracts		\$775,000.00
Other		
TOTAL		\$775,000

Outyear costs

Outyear costs	FY2000	FY01	FY02	FY03
Total budget	\$ 0	\$ 0	\$ 0	\$ 0
O&M as % of total				

Section 6. Abstract

- a. This proposal addresses instream flows in the Teanaway River.
- b. The overall goal of this project is to increase instream flows in the Teanaway River. The ultimate goal is to increase natural salmon and steelhead production in this stream.
- c. This project supports the Fish and Wildlife Program’s general goal of “a healthy Columbia Basin, one that supports both human settlement and the long-term sustainability of native fish and wildlife species in native habitats...” (Section 2.1)

Specific Program measures addressed by this project include 7.1, 7.7, 7.8G, 7.8H, and 7.11.C. Improved instream flows in the Teanaway River will increase both juvenile rearing habitat and improve passage conditions for adult salmon. In addition, improved instream flows will assist in restoring a healthy riverine ecosystem that is essential for the natural production of salmon and steelhead.

d. Low summer instream flows have been recognized by Tribal, state, and Federal fisheries agencies as a serious problem with respect to salmon and steelhead production in the Teanaway River for many years. In May 1996, the Teanaway River was listed on the Washington State Clean Water Act Section 303(d) list as both flow and temperature impaired. Water acquired through cooperative water conservation projects will be dedicated to instream flows in the Teanaway River.

e. Water conservation programs will be implemented with cooperating landowners and the conserved water dedicated to instream flows. Conservation programs are expected to be operational by September 1999.

f. Water measuring devices will be placed on all water diversions involved in the water conservation program. Continuous monitoring will ensure that diversions are reduced in order to increase instream flows.

Section 7. Project description

a. Technical and/or scientific background.

Lack of instream flows in the Teanaway River limits rearing habitat and adult passage during periods of low instream flows in the summer due to irrigation withdrawals (BOR, 1990). The Teanaway River is listed as flow and temperature impaired on the May 1996 Washington State Clean Water Act Section 303(d) list. Historically, the Teanaway River was a significant producer of spring chinook, coho, and steelhead (YIN, WDF, WDW, 1990). Anadromous fish production in recent years has been minimal or non-existent (BOR, 1990).

This project was initiated to obtain water to improve instream flows in the Teanaway River through a cooperative effort with landowners interested in participating in water conservation projects. Restoring instream flows in the Teanaway River is entirely consistent with the Council's 1994 Fish and Wildlife Program's Systemwide Goal of a healthy Columbia River Basin. This project specifically addresses Section 7.6A "Habitat Goal: Protect and improve habitat conditions to ensure compatibility with the biological needs of salmon, steelhead, and other fish and wildlife species," as well as Sections 7.1, 7.7, 7.8G, 7.8H, 7.11C. Nothing is more basic to the biological needs of salmon than instream flows.

The BOR is also pursuing salmon habitat restoration in the Teanaway River, pursuant to Title XII, P.L. 103-434. This project is totally supportive of and integrated with the BOR

activities in a coordinated effort to restore salmon and steelhead production in the Teanaway River. The coordinated joint YIN/BOR/BPA/private landowner approach is an excellent on-the-ground example of Section 7.6C, "Coordinated Habitat Planning", and Section 7.7, "Cooperative Habitat Protection and Improvement with Private Landowners".

FY 1997 funds are committed to close two gravity irrigation diversions and convert to pump diversions; move the point of diversions downstream approximately two miles; convert two open surface delivery ditches to closed, piped delivery systems; and convert on-farm flood irrigation to sprinkler systems. Closing the gravity diversions also eliminates two gravel berms that are pushed up each summer and constitute total blockages to adult passage. Approximately 3 cfs of conserved water will remain in the Teanaway River.

b. Proposal objectives.

The 1998 portion of this project will conserve approximately 3 cfs which will be dedicated to instream flows in the Teanaway River.

c. Rationale and significance to Regional Programs.

The goal of this project is to increase natural salmon and steelhead production in the Teanaway River by providing the most basic biological component: instream flows. This project is supportive of and complementary to other efforts in the Teanaway River to restore natural populations of salmon and steelhead undertaken pursuant to Title XII, P.L. 103-434 by the BOR. This project is also complementary to the outplanting of juvenile spring chinook by the Yakima Klickitat Fisheries Project, which will occur in early 1999. Adults from these releases will return to spawn in the Teanaway River in 2001. Efforts to improve instream flows are on-going in a number of areas of the Columbia River Basin, including the Umatilla River, Walla Walla River, Methow River, and tributaries of the Snake River.

d. Project history

This project was initiated in 1997 for the purpose of improving instream flows in the Teanaway River by implementing cooperative water conservation programs with willing landowners. The initial phases of meeting with diverse landowners and discussing potential water conservation projects, securing preliminary agreement project scope and extent, and obtaining agreement with respect to dedicating saved water to instream flows, and similar activities, proved more time intensive than anticipated. These preliminary steps have now been resolved, and progress in 1998 should be rapid. However, as a consequence of the lengthy preliminary discussions that occupied most of 1997, construction work that was expected to occur in 1997 has been re-scheduled for 1998. This project clearly shows why it is essential to be both flexible and adaptable in order to shape the proposed project to the needs and desires of the individual landowner.

Without this adaptability, and the patient work of all concerned, this project would not be on the verge of implementation.

As a result of the considerable preliminary work and discussions that occurred in 1997, it is expected that the work scheduled under the proposed 1998 funding will progress much more quickly. Preliminary discussions with the landowner interested in the 1998 funding have already occurred. Expertise gained from this project can be directly applied to other water conservation projects in the Yakima Basin, since all such projects require a high level of coordination between agencies, and a flexible attitude towards the needs of the landowner. Much of the success of such projects directly relates to the credibility developed by the successful completion of earlier water conservation projects.

e. Methods.

This project consists of water conservation projects with the goal of improving instream flows in the Teanaway River by dedicating saved water to this purpose. Normal compliance with the National Environmental Policy Act occurs during project development. All necessary local, state, federal, and tribal permits will be obtained.

Objective 1:

f. Facilities and equipment.

This project will continue to use existing BOR facilities and equipment; office facilities, office equipment, vehicles, etc. No purchase of facilities or equipment will be funded through this proposal.

g. References.

N/A

Section 8. Relationships to other projects

This project complements and is integrated with several other on-going projects in the Yakima Rive Basin to restore natural populations of salmon and steelhead, including construction of fish passage facilities and the Yakima/Klickitat Fisheries Project. It also complements activities implemented by BOR pursuant to Title XII, P.L. 103-4343 to restore salmon and steelhead populations in the Yakima River Basin. Close collaboration has been established with BOR, BPA, local landowners, and related agencies.

Section 9. Key personnel

N/A

Section 10. Information/technology transfer

Expertise, data, and information developed during the implementation of this project will be transferred through inter- and intra-agency communication, public meetings, and informal contacts.