

FY-2004 2005 PROPOSED SCOPE OF WORK for:
Operation and Maintenance of Gages

Project #: 8

Lead Agency: U.S. Fish and Wildlife Service

Submitted by: Division of Water Resources
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Category:

- Ongoing project
- Ongoing-revised project
- Requested new project
- Unsolicited proposal

Expected Funding Source:

- Annual funds
- Capital funds
- O&M funds

I. Title of Proposal:

Operation and Maintenance of Gages Important to the Recovery Implementation Program.

II. Relationship to RIPRAP:

Task # Task Description

Colorado River Action Plan

I.A.3.c.(3)(a) Deliver Ruedi flows to the 15-Mile Reach.

Green River Action Plan

I.A.1 Identify flows needed for recovery.

I.A.3 Deliver identified flows

Yampa River Action Plan

I.A.1 Identify flows needed for recovery

I.A.4a.(1) Steamboat Lake Lease delivery flows

I.A.4a.(3)(e) Install and/or operate gages

III. Study Background/Rationale and Hypotheses:

Over the years, the Recovery Program has identified a need to expand flow gaging in the basin to support development of flow recommendations, quantify sediment movement,

and administer water secured for endangered fish. This Scope of work consolidates the Recovery Program gaging program with and cooperating agencies. Cooperators are the Colorado Division of Wildlife, Colorado River Water Conservation District Utah Department of natural Resources and the Central Utah Water Conservancy District. Gages are funded with Program O&M funds that are passed through to cooperating agencies (This may change).

IV. Study Goals, Objectives, End Products:

Provide a basis for refining the flow recommendations for the important stream reaches of the Colorado, Yampa, Price and Duchesne Rivers.

Provide a benchmark for future monitoring by video or aerial photography.

Aid in scheduling releases from Ruedi, Wolford Williams Fork and Green Mountain Reservoirs and other water sources which may be acquired by the Recovery Program.

Provide basic information for sediment modeling for the Little Snake and Yampa Rivers.

V. Description of Past Performance:

The Palisade gages have been operating continuously since 1990. The gages on the Duchesne and Uinta Rivers have been operating for three years. Gages on the Yampa River have operating for six years.

VI. Study Area:

Colorado, Green, Yampa, and Duchesne Rivers.

VII. Study Methods/Approach:

The Recovery Program will work with cooperators to contract with for the operation of gages important to the Recovery Program.

VIII. Task Description and Schedule:

A. Geological Survey will operate and maintain the Palisade (15-Mile Reach) gage installed in FY-90 by the Recovery Program.

B. Geological Survey will operate and maintain the two gages installed on the Yampa River installed in FY-97 by the Recovery Program. Recent funding shortfalls has resulted in the Recovery Program funding 1/4 of the cost of the Craig gage on the Yampa River. The gage is need to identify flow levels which are set forth in Craig III Biological Opinion.

- C. Geological Survey will operate and maintain the gages installed on the Duchesne and Uinta Rivers installed in FY-97 by the Central Utah Water Conservancy District.
- D. Geological Survey will operate and maintain the temperature equipment installed on the Duchesne and Uinta Rivers installed in FY-97 by the Central Utah Water Conservancy District.
- E. Geological Survey will operate and maintain the temperature equipment installed on the Jensen Utah gage installed in FY-98 for the Recovery Program.
- F. Geological Survey will operate and maintain the gage installed on the Price River during the summer 2000. The gage was requested by the Biology Committee and installed by the USGS using funding from Bureau of Reclamation. River stage/flow and temperature will be collected.

IX Study Schedule: Operation begins October 1, of each year, and continues through September 30, of the following year. Real time provisional data is available on the web at <http://waterdata.usgs.gov/co/nwis/current/?type=flow> The data is published in March of each year and is available in USGS annual water resource data reports. Historic data is also available on the web but is usually lags 2 years because of quality assurance procedures and the volume of data which must be processed by USGS. The temperature for Lodore, Jensen and Deerlodge is available at:
http://waterdata.usgs.gov/nwis/uv?multiple_site_no=404417108524900%0D%0A09260050%0D%0A09261000&search_site_no_match_type=exact&index_pmcode_00010=5&index_pmcode_82292

X. FY- 2004 Budget:

	Total	UCRIP	CUWCD
Yampa Deerlodge & Lodore Temperature	\$6,440	\$6,440	\$0
Yampa River Near Craig	\$1,800	\$1,800	\$0
Colorado River Near Palisade	\$9,420	\$9,420	\$0
Yampa River Above Elkhead Creek*	\$9,420	\$9,420	\$0
Yampa River Below Little Snake	\$9,420	\$9,420	\$0
Green River near Jensen (DCP & Temp)	\$4,565	\$4,565	\$0
Duchesne River near Randlett	\$6,200	\$0	\$6,200
Duchesne River above Randlett	\$6,200	\$6,200	\$0
Uinta River at Randlett	\$6,200	\$6,200	\$0
Duchesne River near Randlett (Temp)	\$2,200	\$2,200	\$0
Price River Flow and (Temp)	<u>\$8,350</u>	<u>\$8,350</u>	<u>\$0</u>
 TOTAL:	 \$72,395	 \$66,194	 \$6,200

* Includes \$2,000 to move the gage in 2004

XI. FY- 2005 Budget Estimate based upon current level of operation.:

	Total	UCRIP	CUWCD
Yampa and Lodore Temperature	\$9,500	\$9,500	\$0
Yampa River Near Craig	\$3,100	\$3,100	\$0
Colorado River Near Palisade	\$13,800	\$13,800	\$0
Yampa River Above Elkhead Creek	\$13,800	\$13,800	\$0
Yampa River Below Little Snake	\$ 0	\$ 0	\$0
Green River near Jensen (DCP & Temp)	\$5,015	\$5,015	\$0
Duchesne River near Randlett	\$6,820	\$0	\$6,820
Duchesne River above Randlett	\$6,820	\$6,820	\$0
Uinta River at Randlett	\$6,820	\$6,820	\$0
Duchesne River near Randlett (Temp)	\$2,420	\$2,420	\$0
Price River Flow and (Temp)	<u>\$9,185</u>	<u>\$8,185</u>	<u>\$0</u>
TOTAL:	\$76,180	\$69,360	\$6,820

XII. Budget Summary:

FY- 2004	\$ 72,030
FY- 2005	\$ 74,650