

I. Project Title: Basin-Wide Stream Gage Operation & Maintenance

II. Bureau of Reclamation Agreement Number(s):

Project/Grant Period: Start date 1990

CO USGS Contract: R16PG00077 End date: 9/30/25

State of Colorado: SEO R12AP40009 End date: 9/30/23

UT USGS Contract: R16PG00079 End date: 9/30/26

Reporting period end date: 09/30/2019

Is this the final report? Yes \_\_\_\_\_ No  x

III. Principal Investigator:

Don Anderson  
P.O. Box 25486, Denver, CO 80225-0486  
E-mail: Donald\_Anderson@fws.gov  
Phone: (303)236-9883 Cell (720)232-6330

IV. Abstract:

The Upper Colorado River Recovery Program employs the nation's streamflow measurement expert, the U.S. Geological Survey, to provide data to assist in measuring and protecting streamflow for endangered fishes and other Program partner purposes.

The USGS operates and maintains the gages as specified in their Cooperative Agreement with the Bureau of Reclamation. A complete inventory of these sites and the entities supporting operation and maintenance of those sites is provided in the attached table. USGS produces daily flow and temperature records, which are checked and posted to the internet. Near real-time data are available as provisional on the internet and can be found at: [http://waterwatch.usgs.gov/?id=ww\\_current](http://waterwatch.usgs.gov/?id=ww_current)

River runoff in Water Year 2019 was above normal in most of the upper Colorado Basin. See the 2019 Annual Report for Hydrology Support (Project #19) for detailed information on 2019 hydrology. Real-time USGS streamflow data were critical in helping managers operate reservoirs to benefit fish habitat while meeting other management and delivery needs.

V. Study Schedule: Initial Year - 1990, Final Year - Ongoing

VI. Relationship to RIPRAP:



ID	Site	Parameter	FY2019 Cost (Total)	Cost-share Responsibilities						FY2019 Cost Share			
				Recovery Program	State of WY	CWCB	CRWCD + City of Craig	USBR	USGS	Recovery Program Share	State of WY share	CWCB share	
<b>Yampa River Basin</b>													
CO WMFKMHCO	Williams Fork near Hamilton, CO	Flow	7,753	75%		0%					\$ 5,815	\$ -	\$ -
USGS #09244490	Yampa River above Elkhead Creek, CO	Flow	17,260	50%	50%						\$ 8,630	\$ 8,630	\$ -
USGS #09247600	Yampa River below Craig, CO	Flow	17,260		25%		75%				\$ -	\$ 4,315	\$ -
USGS #09260050	Yampa River at Deerlodge Park, CO	Flow	17,260	50%	50%						\$ 8,630	\$ 8,630	\$ -
USGS #09260050	Yampa River at Deerlodge Park, CO	Temperature	4,890	25%	75%						\$ 1,223	\$ 3,668	\$ -
<b>Mainstem Colorado River</b>													
USGS #09106150	Colorado River near Palisade, CO	Flow	17,260	100%							\$ 17,260	\$ -	\$ -
USGS #09163500	Colorado River at Colo-Utah State Line	Temperature	4,890	75%					25%		\$ 3,668	\$ -	\$ -
<b>Green River</b>													
404417108524900	Green River above Gates of Ladore, CO	Temperature	4,890	25%	75%						\$ 1,223	\$ 3,668	\$ -
USGS #09261000	Green River near Jensen, UT	Flow	16,800	0%					100%		\$ -	\$ -	\$ -
USGS #09261000	Green River near Jensen, UT	Temperature	5,500	100%							\$ 5,500	\$ -	\$ -
USGS #09272400	Green River at Ouray, UT	Flow	16,800	100%							\$ 16,800	\$ -	\$ -
<b>Duchesne River</b>													
USGS #09295100	Duchesne River abv Uinta R nr Randlett, U	Flow	16,800	100%							\$ 16,800	\$ -	\$ -
USGS #09295100	Duchesne River abv Uinta R nr Randlett, U	Temp	5,500	100%							\$ 5,500	\$ -	\$ -
USGS #09301500	Uinta River nr Randlett, UT	Flow	16,800	100%							\$ 16,800	\$ -	\$ -
USGS #09302000	Duchesne River near Randlett, UT	Flow	16,800	100%							\$ 16,800	\$ -	\$ -
USGS #09302000	Duchesne River near Randlett, UT	Temp	5,500	50%				50%			\$ 2,750	\$ -	\$ -
USGS #09302000	Duchesne River near Randlett, UT	Conductance		0%				100%			\$ -	\$ -	\$ -
USGS #09295000	Duchesne River at Myton, UT	Flow	16,800	100%							\$ 16,800	\$ -	\$ -
<b>Other</b>													
USGS #09314500	Price River near Woodside, UT	Flow	22,100	100%							\$ 22,100	\$ -	\$ -
USGS #09314500	Price River near Woodside, UT	Temp	5,500	50%				50%			\$ 2,750	\$ -	\$ -
USGS #09314500	Price River near Woodside, UT	Conductance		0%							\$ -	\$ -	\$ -
	<b>TOTALS</b>										<b>\$169,047</b>	<b>\$28,910</b>	<b>\$ -</b>
	USGS Utah										\$122,600		
	USGS Colorado										\$ 40,633	\$28,910	
	State of Colorado										\$ 5,815		

**Colorado USGS gages**

Steven P. Anders  
Western Colorado Data Section Chief  
US Geological Survey - WRD  
445 West Gunnison Avenue Suite 130  
Grand Junction, CO 81501-5720  
phone: 970-628-7140  
cell: 970.640.7130  
spanders@usgs.gov

**State of Utah**

Dan Meyer  
Division 6 Hydrographic / Water Resources Engineer  
Colorado Division of Water Resources  
505 Anglers Drive, Suite 101  
Steamboat Springs, CO 80487  
Tel: (970) 879-0272 x6011  
Dan.Meyer@state.co.us

**Utah USGS Gages**

Cory Angeroth  
Hydrologist Chief  
USGS Utah Water Science Center  
2393 Orton Circle  
Salt lake City, UT 84119-2047  
801-908-5048  
angeroth@USGS.gov

**USBR Coordinates Contract**

Robert Radtke  
GS1301-Physical Scientist (Chemistry)  
Handling the contract for the Recovery Program  
Bureau of Reclamation  
801-524-3719  
rradtke@usbr.gov

## ANNUAL PERFORMANCE PROGRESS REPORT (PPR)

BUREAU OF RECLAMATION AGREEMENT NUMBERS:

**Utah** USGS Contract: R16PG00079

End date: 9/30/26

UPPER COLORADO RIVER RECOVERY PROGRAM PROJECT NUMBER: 8

Project Title: Basin Wide Stream Gage Operation & Maintenance

Principal Investigator:

Don Anderson

P.O. Box 25486, Denver, CO 80225-0486

E-mail: Donald\_Anderson@fws.gov

Phone: (303) 236-9883

Cell (720) 232-6330

Project/Grant Period:                      Period of performance: 2019 these gages are funded year round  
and this activity is ongoing.

Performance: All partners are very helpful and this project ran smoothly in 2018.

**USGS:** both in Utah and Colorado the USGS runs all aforementioned stream gages year-round during all types of weather and flow conditions. The USGS is the nation's expert in collecting and reporting stream flow data.

## ANNUAL PERFORMANCE PROGRESS REPORT (PPR)

BUREAU OF RECLAMATION AGREEMENT NUMBERS:

State of Colorado Contract: SEO R14AP40009

End date: 9/30/23

UPPER COLORADO RIVER RECOVERY PROGRAM PROJECT NUMBER:   8  

Project Title: Basin Wide Stream Gage Operation & Maintenance

Principal Investigator:

Don Anderson

P.O. Box 25486, Denver, CO 80225-0486

E-mail: Jana\_Mohrman@fws.gov

Phone: (303) 236-9883

Cell (720) 232-6330

Project/Grant Period:                      Period of performance: 2019 these gages are funded year round  
and this activity is ongoing.

Performance: All partners are helpful and this project ran smoothly in 2019.