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

II. Bureau of Reclamation Agreement Number(s):

   Project/Grant Period: Start date 1990

   USGS Contract: R12PG40019  End date: 9/30/16
   Colorado Contract: SEO R12AP40009  End date: 9/30/18
   Central Utah Contract R11AP40097  End date: 9/30/15

   Reporting period end date: 09/30/2014
   Is this the final report? Yes _____ No ___x___

III. Principal Investigator:

   Jana Mohrman
   P.O. Box 25486, Denver, CO 80225-0486
   E-mail: Jana_Mohrman@fws.gov
   Phone: (303) 236-9883  Cell (720)232-6330

IV. The Upper Colorado River Recovery Program employs the nation’s expert, the USGS, to provide data to assist in protecting stream for endangered fishes.

   The USGS operates and maintains the gages as specified in their Cooperative Agreement with the Bureau of Reclamation. USGS produces daily flow and temperature records, which are checked and posted to the internet. Near real-time data is available as provisional on the internet and can be found at:
   http://waterwatch.usgs.gov/?id=ww_current

   2014 was an above-average snowpack year. Real-time USGS streamflow data were critical in helping managers operate reservoirs to benefit fish habitat and simultaneously prevent flooding in the Colorado’s Grand Valley area.

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

VI. Relationship to RIPRAP:

   Colorado River Action Plan I.A.5: Legally protect in stream flows pursuant to Colorado River PBO;; Green River Action Plan I.A.3.d Operate Flaming Gorge Dam to provide…flows; Duchesne River Action Plan; I.A; ID Year-round flow needs for recovery Yampa River Action Plan; I.A.1; ID fish habitat and flow needs.
VII. Accomplishment of FY 2015 Deliverables: This year “Miracle May” vastly improved runoff conditions, gage data was crucial for management of water resources.

VIII. Recommendations:

IX. Project Status: On track and ongoing. The gages are operational and the information is available from the Internet, Watertalk, and the USGS Water Resource paper for Colorado and Utah.

X. Budget

<table>
<thead>
<tr>
<th>Source</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>UCREFRP FY 2015 Cost</td>
<td>$ 153,963</td>
</tr>
<tr>
<td>Wyoming Contribution</td>
<td>- $ 55,967</td>
</tr>
<tr>
<td>Reclamation Contribution</td>
<td>$ 97,996</td>
</tr>
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</table>

XI. Status of Data Submissions: Not applicable.

XII. Signed: Jana Mohrman Nov 3, 2015
Principle Investigator Date
## Budget for FY15, Project 8, Recovery Program Gages

<table>
<thead>
<tr>
<th>Gage #</th>
<th>CWCB</th>
<th>UCREFR</th>
<th>COST</th>
<th>Labor</th>
<th>Admin</th>
<th>Facility</th>
<th>Equipment</th>
<th>Data Delivery</th>
<th>Vehicles</th>
<th>Travel</th>
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<tbody>
<tr>
<td>Colorado</td>
<td></td>
<td></td>
<td></td>
<td>41%</td>
<td>25%</td>
<td>10%</td>
<td>10%</td>
<td>7%</td>
<td>5%</td>
<td>2%</td>
</tr>
<tr>
<td>Funds go to Colorado State Engineers Office Steamboat Springs</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Williams Fork Creek near Craig</td>
<td>$2,810</td>
<td>$8,430</td>
<td>$11,240</td>
<td>$3,456</td>
<td>$2,108</td>
<td>$843</td>
<td>$843</td>
<td>$690</td>
<td>$422</td>
<td>$169</td>
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<tr>
<td>Funds go to USGS Grand Junction*</td>
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<tr>
<td>9260050 Yampa @ Deerlodge (Temps)</td>
<td>$4,769</td>
<td>$4,769</td>
<td></td>
<td>$1,565</td>
<td>$1,192</td>
<td>$477</td>
<td>$477</td>
<td>$334</td>
<td>$238</td>
<td>$95</td>
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<tr>
<td>4E+14 Green River above Gates of LoDore</td>
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<td>$4,769</td>
<td></td>
<td>$1,565</td>
<td>$1,192</td>
<td>$477</td>
<td>$477</td>
<td>$334</td>
<td>$238</td>
<td>$95</td>
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<tr>
<td>9247600 Yampa River near Craig ¼ of O/M (Flow)</td>
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<td></td>
<td>$1,796</td>
<td>$1,095</td>
<td>$438</td>
<td>$438</td>
<td>$307</td>
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<tr>
<td>9106150 Colorado River near Palisade (Flow)</td>
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<td>$7,185</td>
<td>$4,381</td>
<td>$1,753</td>
<td>$1,753</td>
<td>$1,227</td>
<td>$876</td>
<td>$361</td>
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<tr>
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<td>$1,753</td>
<td>$1,753</td>
<td>$1,227</td>
<td>$876</td>
<td>$361</td>
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<tr>
<td>9260050 Yampa River at Deerlodge (Flow)</td>
<td>$17,525</td>
<td>$17,525</td>
<td></td>
<td>$7,185</td>
<td>$4,381</td>
<td>$1,753</td>
<td>$1,753</td>
<td>$1,227</td>
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<tr>
<td><strong>Colorado Total</strong></td>
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<td>9314500 Price R nr Woodside (Flow, Temp &amp; Cond)</td>
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<td>9272400 Green River at Ouray (Flow)</td>
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<td>$1,630</td>
<td>$1,141</td>
<td>$815</td>
<td>$326</td>
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<tr>
<td>9261000 Green River nr Jensen (Temp only)</td>
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<td>$1,141</td>
<td>$815</td>
<td>$326</td>
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<td>9295100 Duchesne R. above Uinta (Flow &amp; Temp)</td>
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<td>9302000 Duchesne R. nr Randlett (Flow, Temp &amp; Cond)</td>
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<td>$1,141</td>
<td>$815</td>
<td>$326</td>
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<td>9301500 Uinta River nr Randlett (Flow)</td>
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<td>$6,682</td>
<td>$4,074</td>
<td>$1,630</td>
<td>$1,630</td>
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<td><strong>Utah Total</strong></td>
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<td></td>
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</tr>
</tbody>
</table>

**I UCREFRP FY 2015 (CO and UT)** $188,721
**Colorado USGS gages**

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Western Colorado Data Section Chief  
US Geological Survey - WRD  
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Colorado Division of Water Resources  
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Steamboat Springs, CO 80487  
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**Utah USGS Gages**

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Cory Angeroth  
Hydrologist Chief  
USGS Utah Water Science Center  
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801-908-5048  
angeredh@USGS.gov
ANNUAL PERFORMANCE PROGRESS REPORT (PPR)

BUREAU OF RECLAMATION AGREEMENT NUMBERS:

USGS Contract: R12PG40019                End date: 9/30/16

UPPER COLORADO RIVER RECOVERY PROGRAM PROJECT NUMBER: __8__

Project Title:  Basin Wide Stream Gage Operation & Maintenance

Principal Investigator:
Jana Mohrman
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: 2015 these gages are funded year round
and this activity is ongoing.

Performance:     All partners are very helpful and this project ran smoothly in 2015.

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:**

Colorado Contract: SEO R14AP40009  
End date: 9/30/18

**UPPER COLORADO RIVER RECOVERY PROGRAM PROJECT NUMBER:** 8

Project Title: Basin Wide Stream Gage Operation & Maintenance

Principal Investigator:  
Jana Mohrman  
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Cell (720) 232-6330

Project/Grant Period: Period of performance: 2015 these gages are funded year round and this activity is ongoing.

Performance: All partners are helpful and this project ran smoothly in 2015.

*Colorado:* CWCB pays for a third of the Williams Fork gage.
ANNUAL PERFORMANCE PROGRESS REPORT (PPR)

BUREAU OF RECLAMATION AGREEMENT NUMBERS:
Central Utah Contract R11AP40097  End date: 9/30/15
Central Utah WCD   R11AP40097

UPPER COLORADO RIVER RECOVERY PROGRAM PROJECT NUMBER: 8

Project Title: Basin Wide Stream Gage Operation & Maintenance

Principal Investigator:
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Project/Grant Period: Period of performance: 2014 these gages are funded year round and this activity is ongoing.

Performance: All partners are helpful and this project ended in 2014.