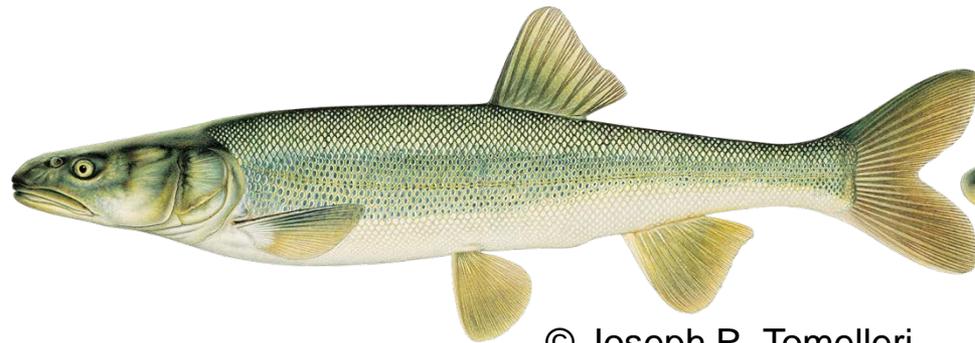




# San Juan River Basin Recovery Implementation Program 2015 Annual Meeting

## Meeting Format:

- Overview of Recovery Program
- Overview of 2014/2015 Hydrologic Conditions
- 2014 Recovery Project Presentations
- Data Integration and Evaluation
- Overall Discussion and Wrap-up



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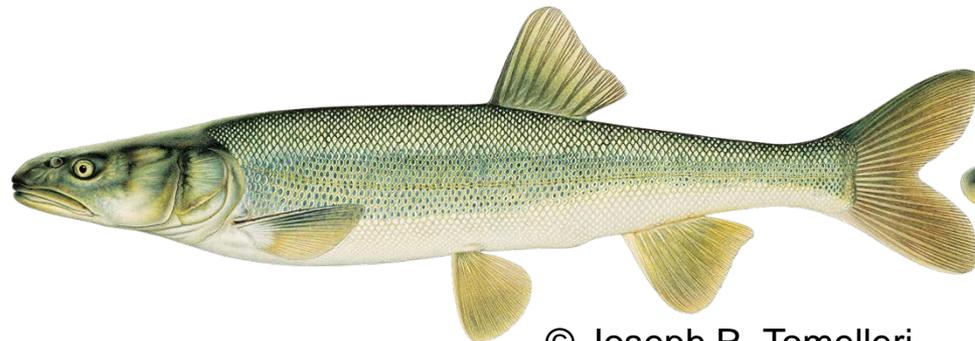


# San Juan River Basin Recovery Implementation Program

**Established in 1992**

## **Goals of the Program:**

- **Conserve and recover populations of Colorado pikeminnow and razorback sucker in the San Juan River Basin**
- **Proceed with water development in the Basin in accordance with all applicable laws, compacts, and treaties**



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# San Juan River Basin Recovery Implementation Program Program Partners

- **State of Colorado**
- **State of New Mexico**
- **Bureau of Reclamation**
- **Bureau of Indian Affairs**
- **Bureau of Land Management**
- **Fish and Wildlife Service, R2 & R6**
- **Conservation Interests**
- **Water Development Interests**
- **Navajo Nation**
- **Jicarilla Apache Nation**
- **Southern Ute Indian Tribe**
- **Ute Mountain Ute Indian Tribe**





# San Juan River Basin Recovery Implementation Program Guiding Documents

- **Cooperative Agreements (extended program to 2023)**
- **Public Law 106-392 (established funding to 2011)**
- **Public Law 112-270 (extended funding to 2019)**
- **Program Document (updated Sept. 2012)**
- **Species Recovery Goals (2002)**
- **Long Range Plan (updated annually)**
- **Annual Work Plan (developed annually)**



# San Juan River Basin Recovery Implementation Program Program Organization

## U.S. Fish and Wildlife Service

- Program Office/Coordination
- ESA Compliance & Sufficient Progress
- Data Management and Integration
- Information and Education

## Bureau of Reclamation

- Funds Management/Coordination
- ESA Compliance/Navajo Reservoir Ops.
- SJR Hydrology Model & Flow Recommendations

## Coordination Committee

- Ensure Program goals are met in a timely manner
- Establish Program policies, direction, procedures & organization
- Approve annual work plans & budgets

Biology Committee

Ad Hoc Committees



# San Juan River Basin Recovery Implementation Program

## Recovery Elements and Actions

- **Element 1** – Management and Augmentation of Populations and Protection of Genetic Integrity
- **Element 2** – Protection, Management, and Augmentation of Habitat
- **Element 3** – Management of Nonnative Species
- **Element 4** – Monitoring and Evaluation of Fish and Habitat in Support of Recovery Actions
- **Element 5** – Program Management and Assessment of Progress toward Recovery
- **Element 6** – Information and Education



# San Juan River Basin Recovery Implementation Program

## Element 1 - Augmenting Populations

### Fish Production Facilities:

- **Southwestern Native Aquatic Resources and Recovery Center (Southwestern ARRC)**
- **Navajo Nation NAPI Grow-Out Ponds**
- **Horsethief Canyon Native Fish Facility Ponds at Ouray NFH**





# San Juan River Basin Recovery Implementation Program Element 2 – Habitat Improvement

## Improving Habitat:

- Provide suitable flows
- Provide sufficient range
- Provide suitable habitat including
  - Healthy native fish community
  - Provide suitable water quality





# San Juan River Basin Recovery Implementation Program Element 3 – Nonnative Species

## Managing Nonnative Species:

- Control problematic nonnative fish
- Prevent introductions of invasive species
- Collect rare fish capture-recapture monitoring data





# San Juan River Basin Recovery Implementation Program

## Element 4 – Monitoring and Evaluation of Fish and Habitat

### Assessing Recovery Actions:

- Monitor fish populations
- Monitor natural and restored habitat
- Evaluate and integrate monitoring data
- Identify and conduct research and monitoring in support of recovery actions





# San Juan River Basin Recovery Implementation Program Program Management

## Element 5 – Program Planning and Management

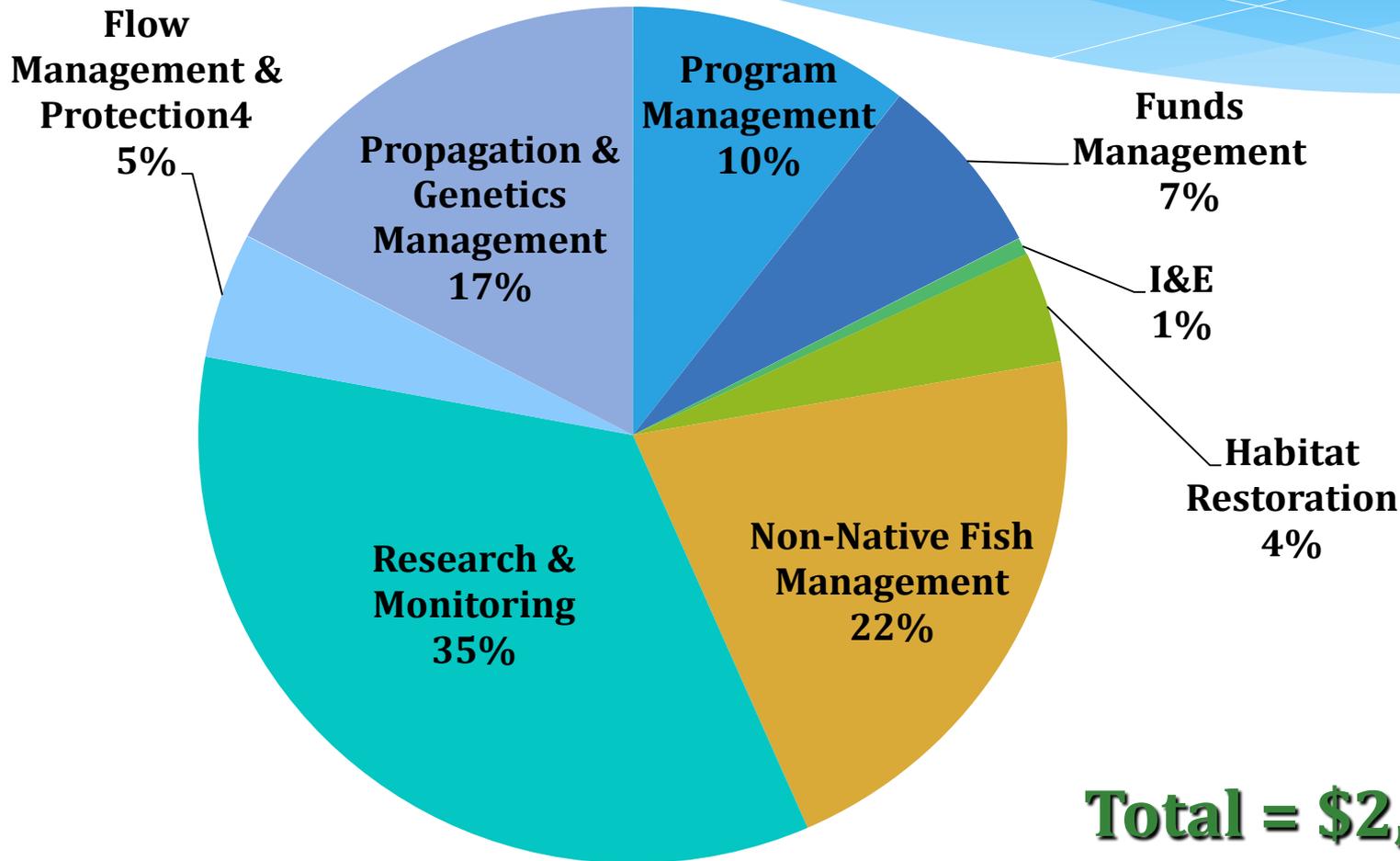
- **Service:** Program management and assessment of Program progress toward recovery
- **Reclamation:** Contracting and funds management

## Element 6 – Information and Education

- In conjunction with Upper Colorado River Endangered Fish Recovery Program



# San Juan River Basin Recovery Implementation Program FY2014 Expenditures



**Total = \$2,479,028**





# San Juan River Basin Recovery Implementation Program

# Wrap-Up



# San Juan River Basin Recovery Implementation Program

## 2014 Summary

- Larval collections show both endangered fish are reproducing
- More adult Colorado pikeminnow caught than any previous year
- 300 larval Colorado pikeminnow captured (56 captured in the previous 20 years)
- Evidence of razorback sucker recruitment in the San Juan River
- Many razorback sucker persisting and reproducing in Lake Powell
- TNC Phase II habitat restoration sites completed
- Five San Juan River data integration papers published in scientific journals and one in-review





# San Juan River Basin Recovery Implementation Program

## Current Activities

- **2015 Navajo Dam environmental releases workshop**
- **Additional remote PIT tag reader installations**
- **UCR and SJR Recovery Programs consolidated database**
- **More testing for effectiveness at Hogback Fish Weir**
- **Comprehensive monitoring at habitat restoration sites**
- **Assessment of razorback sucker augmentation program and development of new plan**
- **Assessment of fish entrainment at structures in the San Juan and Animas rivers**
- **More sampling below Lake Powell waterfall**