

## **Managed Rivers and Native Fishes: 30 years of Progress and Challenges for Species Recovery**

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The Upper Colorado River Endangered Fish Recovery Program began in 1988 to provide compliance with the Endangered Species Act for water depletions from the basin and address declines in native fish populations. Thirty years later, a host of recovery efforts have been implemented ranging from native fish stocking and invasive fish removal to environmental flow prescriptions and habitat restoration. I summarize the status of endangered fish recovery and discuss the challenges the program faces in meeting its goals of recovering these fishes. I discuss how climate change, increased consumptive demands, (including transbasin diversions), and evolving rivers create a complex and a yet uncertain path toward recovery. Finally, I explore how science has informed the relationships between physical river processes, fish habitat, and environmental flows and what our knowledge gaps are in these relationships.