

MESM 2016-2017 Group Project Proposal

Project Title: Return on Investment: Quantifying the benefit of restoring the Lower Yuba River for Chinook salmon, steelhead, and other ecosystem services.

Proposers:

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Client:

South Yuba River Citizens League (SYRCL)

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Project Objectives

1. Identify ecosystem benefits associated with potential restoration actions on the Lower Yuba River, specifically focusing on actions that would benefit spring and fall-run Chinook salmon and steelhead trout.
2. Determine which restoration strategies by river reach will maximize short and long-term benefits for the three fish species while providing other ecosystem benefits.

Significance

The Yuba River is one of the last strongholds for wild, self-sustaining salmon and steelhead runs in the whole of California's Central Valley. The historic impact of placer and hydraulic mining during the 19th century resulted in a radically altered, diverted and devastated river system.

Since the mid-1800s, populations of anadromous salmonid fish in the Yuba River have been adversely affected by anthropogenic factors, including hydraulic gold mining, channel manipulation (including dam construction), water diversion, and regulation of the flow regime. As is the case for all rivers draining into California's Central Valley, populations of native Chinook salmon and steelhead in the Yuba River have declined dramatically since European settlement of the area. It has been estimated that about 2 million fall-run Chinook salmon returned annually to Central Valley rivers and streams before the Gold Rush, of which about 15%, or up to 300,000 fish, returned to the Yuba River (Yoshiyama et al. 2001; CDFG 1993). Over the last 30 years, an average of about 15,000 fall-run Chinook salmon have returned to the Yuba River to spawn annually, a substantial reduction from historical numbers (CDFW 2015). Central Valley steelhead were listed by the National Marine Fisheries Service (NMFS) as a threatened species in 1998, and spring-run Chinook salmon were listed by NMFS as a threatened species a year later.

NMFS's Recovery Plan for spring-run Chinook salmon and steelhead identifies specific recovery actions for these species. Priority actions in the Plan include: developing and implementing a

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