

## **EFFECTS OF LARGE WOOD AT TRINITY RIVER BANK REHABILITATION SITES**

Daniel Menten<sup>\*1</sup>, Matthew Smith-Caggiano<sup>1</sup>, Damon Goodman<sup>1</sup>, Justin Alvarez<sup>2</sup> and Aaron Martin<sup>3</sup>

\*-Presenter

1-U.S. Fish and Wildlife Service, Arcata Fish and Wildlife Office, 1655 Heindon Rd, Arcata, CA 95521 (707)-822-7201; [daniel\\_menten@fws.gov](mailto:daniel_menten@fws.gov)

2-Hoopa Valley Tribal Fisheries Department, P.O. Box 1348, Hoopa, CA 95545. (530)-625-4211

3-Yurok Tribal Fisheries Program, 23001 N. Highway 96, Hoopa, CA 95546. (530)-625-4130

### **Abstract**

The goal of the Trinity River Restoration Program (TRRP) is to restore the fish and wildlife populations in the Trinity River basin to levels that existed before the construction of Trinity and Lewiston Dams. To achieve this goal, the TRRP has implemented a suite of management actions including flow management, coarse sediment augmentation, channel rehabilitation and large wood management. To address habitat deficiency and a lack of wood loading resulting from low historic flows and the discontinuity created by Trinity Dam, large wood has been installed at Bank Rehabilitation sites on the Trinity River. Large wood is a dominant factor in the creation and maintenance of essential fish habitat and fluvial processes. The USFWS established a monitoring scheme to evaluate the effectiveness of TRRP large wood structures over time, analyzing the effects of these structures as they relate to management objectives. The survey has been repeated annually since 2006, and describes every piece of large wood installed by the TRRP (768 pieces) at 10 restoration sites. Information on location, geomorphic properties, habitat variables, and photographs are gathered for each piece of wood. This survey has been repeated annually to document changes at installations with flow and through time, and was done in conjunction with the Integrated Habitat Assessment Project (IHAP) that quantifies changes in habitat area resulting from the structures. This project documents large wood placement and its effects on the Trinity River and may provide valuable insight for managers to most effectively plan and implement future installations.

This is a poster presentation, and will not be a student presenter.