# Overview

Operation of rotary screw traps on the lower Stanislaus River at Caswell Memorial State Park is part of the U.S Fish and Wildlife Service’s Anadromous Fish Restoration Program and Comprehensive Assessment and Monitoring Program under the National Marine Fisheries Service Reasonable and Prudent Alternatives actions and Central Valley Project Improvement Act. The primary objectives of the study are to collect data that can be used to estimate the passage of juvenile fall-run Chinook Salmon Oncorhynchus tshawytscha and to quantify the raw catch of steelhead Oncorhynchus mykiss. Secondary objectives of the trapping operations focus on collecting biological data on juvenile salmonids and gathering environmental data that will be used to develop models that correlate environmental parameters with salmonid size, temporal presence, abundance, and production.

The data package contains seven datasets including: raw catch, trap operation, environmental, and trap efficiency data.

# Raw Catch – Chinook Dataset

This dataset covers ALL Chinook Salmon captured by the rotary screw traps. This spreadsheet includes biological data on: 1) unmarked fall- and spring-run Chinook Salmon 2) recaptured marked fall-run (BBY OR "Pigment / Dye", Photonic Dye, Fin Clip, and VIE OR "Elastomer") Chinook Salmon utilized in trap efficiency trials.

# Raw Catch – Steelhead Dataset

This dataset covers ALL steelhead captured by the rotary screw traps. All steelhead captured are unmarked and presumed to be natural origin steelhead.

# Raw Catch – ByCatch Dataset

This dataset provides biological data on ALL catch (EXCLUDING Chinook Salmon or steelhead) captured by the rotary screw traps. All catch in this table is of natural origin.

# Trap Operations Dataset

This dataset provides trap operation data for each trap visit. Specifically, it includes data on the visit type, trap functioning status, start and end sampling dates and times, total revolutions and instantaneous revolution speeds, livewell intake statuses, debris data, and whether the catch associated for this record will be include for juvenile production estimates.

# Environmentals Dataset

This dataset covers environmental data collected at the rotary screw traps. This spreadsheet includes turbidity (nephelometric turbidity units), water velocity (meters per second), dissolved oxygen (milligrams per liter), and water depth (centimeters).

# Trap Efficiency Summary Dataset

This dataset provides a summary of each trap efficiency trial conducted. It includes the release date and time, the length of the test, the number of marked fish released and recaptured, and whether the trial was included for juvenile production estimates.

# Trap Efficiency Release FL Dataset

This dataset provides biological data on a subsample of released fish utilized in trap efficiency trials.