## Trap Equipment

* Two in-line 8-foot diameter rotary screw traps

## Current Trap Location

* Lower Feather River (RM 17) near Star Bend Park and Boat Ramp near Olivehurst, California

## Monitoring Schedule

* October through June
* Continuously trapping except under high flows and unsafe working conditions
* Serviced daily within a 24-hour period, more if needed due to high debris amounts or fish catch

## Daily Environmental Data

* Flow (cubic feet per second), recorded from the CDEC Gauging station: Feather River at Boyd’s Landing Above Star Bend (FSB)
* Water temperature (Fahrenheit/Celsius)
* River Depth (inches/feet)
* Turbidity (nephelometric turbidity units)
* Dissolved Oxygen (milligrams per liter)
* Conductivity (microSiemens per centimeter)
* Velocity (meters per second)

## Fish Measurements

Fork length measurements to the nearest mm are taken for:

* Chinook salmon: 50 randomly selected per category: marked (with an adipose fin clip) spring-, fall-, winter- or late fall-runs; unmarked spring-, fall-, winter- or late fall-runs. Run designated by Length at Date criteria (Fisher 1992).
* Steelhead: 50 randomly selected per marked or unmarked
* Non-salmonid fish: first 10 (total length measurement to nearest mm)

## Fish Counts

* All fish not measured are plus counted by hand.

## Trap Efficiency Trials

* Fall-run Chinook salmon captured in the RSTs or juvenile Chinook salmon produced by the Feather River Fish Hatchery are the source of released fish.
* Frequency of once per week from December to May across variable flow and environmental conditions as catch totals and/or hatchery availability allows
* A minimum of three consecutive days of fishing after the release date is required for a release to be included in analyses.
* Mortality between the release point and the trap is assumed to be negligible.
* Release site approximately 1 mile upstream of the trapping site.

## Trap Efficiency Marks

* Fish are marked with Bismarck Brown Y (BBY) whole body stain.
* Fish are alternatively marked with a Visible Implant Elastomer (VIE) Tag.

References

* Fisher, F. W. 1992. Chinook salmon, *Oncorhynchus tshawytscha*, growth and occurrence in the Sacramento-San Joaquin River system. Draft report dated June 1992. Sacramento, CA: Inland Fisheries Division, California Department Fish and Game. 42 p.