



Field Activity Advisory Equipment installation, salmonid surveys and monitoring activities October 2021 - April 2022

The San Joaquin River Restoration Program (SJRRP) is conducting surveys to better understand salmonid spawning habitat quality in Reach 1 of the Restoration Area, from Friant Dam to about 2 miles downstream of the State Route 99 Bridge.

These surveys focus on: 1) locating salmonid redds, or nests; 2) describing the physical habitat characteristics where redds are placed; 3) recovering carcasses to determine spawning success; 4) monitoring egg survival, emergence rates and potential trap effects from redds where emergence traps have been installed; and 5) monitoring egg survival and rates from untrapped redds and the adjacent ambient streambed.

These studies will assist the SJRRP in identifying potential limitations in the available spawning habitat and the potential need for habitat restoration actions.

Who: U.S. Fish and Wildlife Service and California Department of Fish and Wildlife



An emergence trap is used to assess egg survival and emergence rates from salmonid redds, or nests.



Sediment samplers will be buried into the streambed to evaluate incubation habitat conditions. Additionally, data loggers or other methods of sediment sampling may be visible. Please do not touch or remove them.

What: Weekly surveys will be conducted by boat to find, measure and spatially document redds produced by Chinook salmon. Chinook salmon carcasses encountered during redd surveys will be sampled for scales and otoliths as well as physical observations, measurements and jaw tags. Installation and monitoring of emergence traps will take place at varied locations in Reach 1 of the Restoration Area to assess egg survival and emergence rates, as well as the number and condition of emerging, recently hatched salmon, known as fry. Water quality monitoring equipment will be installed to better understand factors affecting the redd environment. Incubation habitat sampling will be performed on both the trapped and untrapped redds, as well as the adjacent ambient streambed, to assess the physical habitat parameters potentially affecting egg survival and fry production, such as sediment accumulation.

When: Emergence traps will be installed about a week before expected fry emergence and monitored regularly through April 2022.

Where: These activities will occur in Reach 1 of the San Joaquin River, from Friant Dam to about 2 miles downstream of the State Route 99 Bridge. Researchers will gain access through the public right-of-way or areas where private landowners have granted access.

Questions about this activity should be directed to:

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Questions about SJRRP field activities on public and private land should be directed to the SJRRP Landowner Coordinator below. Questions about the SJRRP should be directed to the Public Affairs Specialist below.

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Contact the SJRRP Hotline, 916-978-4398, or email RestorationFlows@restoresjr.net if you see any problems or have any concerns.

For more information, please visit the SJRRP Web site at www.restoresjr.net or contact Josh Newcom, Public Affairs Specialist, at 916-978-5508. Field Advisories for activities are available at <http://restoresjr.net/get-involved/field-advisories/>