



CVP Habitat Restoration

Overview

Reclamation, in coordination with the U.S. Fish and Wildlife Service and in partnership with other federal, state and local parties, funds and constructs extensive spawning and rearing habitat restoration projects on the Central Valley Project rivers and streams below Reclamation-operated dams.

Construction in 2021



Anderson River Park Phase II and III on the Sacramento River looking downstream

Anderson River Park Phase II and III, Sacramento River:

The creation of .5 acres of spawning habitat near Anderson, California, 2.9 acres of rearing habitat and 1 acre of floodplain habitat added, with more than 140 clusters of large

for cover. Partners include: City of Anderson, City of Red Bluff, City of Redding, Chico State University, Glenn-Colusa Irrigation District, California Department of Fish and Wildlife, California Department of Water Resources, Golden Gate Salmon Association, Pacific States Marine Fisheries Commission, RD 108, River Partners, Sacramento River Forum, Trout Unlimited, U.S. Forest Service, U.S. Fish and Wildlife Service, and Western Shasta Resource Conservation District.

South Cypress, Sacramento River: The creation of 1 acre of spawning habitat near Redding, California, 5.2 acres of rearing habitat added, 2.9 acres of predator hot spot reduction, with more than 40 clusters of large wood for cover. Partners include: City of Anderson, City of Red Bluff, City of Redding, Chico

State University, Glenn-Colusa Irrigation District, California Department of Fish and Wildlife, California Department of Water Resources, Golden Gate



Nur Pon (South Cypress) Side Channel on the Sacramento River looking downstream

Salmon Association, Pacific States Marine Fisheries Commission, RD 108, River Partners, Sacramento River Forum, Trout Unlimited, U.S.

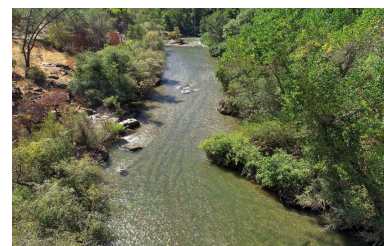


Ancil Hoffman floodplain, rearing, and spawning riffle on the American River, looking downstream

Ancil Hoffman Salmonid Spawning and Rearing Habitat Restoration, American River:

Maintaining 2 acres of spawning habitat in Sacramento, California, 2 acres of spawning habitat, 1 acre of rearing habitat, and 2.5 acres of floodplain habitat added, .25 acres of stranding area removed with more than 20 clusters of large wood for cover. Partners include: National Marine Fisheries Service, Sacramento County, American River Water Forum, Sacramento Area Flood Control Agency, California Department of Fish and Wildlife, and U.S. Fish and Wildlife Service.

Goodwin Canyon Salmonid Spawning and Rearing Habitat Restoration, Stanislaus River: Maintaining 1.26 acres of spawning habitat at Goodwin Dam near Oakdale, California, the number of acres added of spawning habitat have yet to be obtained, will complete aerial imagery fall



Goodwin Canyon Gravel on the Stanislaus River, looking downstream

2021, and .25 acres of rearing habitat added. Partners include: Sean Smith Construction, U.S. Army Corps of Engineers, Oakdale Irrigation District, South San Joaquin Irrigation District, California Department

of Fish and Wildlife, and California Department of Water Resources.



Keswick spawning gravel - before



Keswick spawning gravel - after

Recent Projects

Keswick Gravel, Sacramento River (Completed 2019) – Maintaining 18.7

acres of spawning habitat at Keswick Dam, California.

Partners include: Chico State Enterprises, Anderson-Cottonwood Irrigation District, Glenn-Colusa Irrigation District, and Sacramento River Forum.

Market Street Gravel, Sacramento River (Completed 2019):

Maintaining 3 acres of spawning habitat in Redding, California. Replenishment occurs on a periodic basis depending upon



Market Street Gravel - before



Market Street Gravel - after



Market Street Gravel - before



Market Street Gravel - after

and the need. Partners include: Chico State Enterprises, Anderson-Cottonwood Irrigation District, Glenn-Colusa Irrigation District, and Sacramento River Forum.



Anderson River Park Phase I on the Sacramento River looking downstream

Anderson River Park Phase I, Sacramento River (Completed 2020):

The creation of .5 acres of spawning habitat near Anderson, California, 1.5 acres of

rearing habitat and 1 acre of floodplain habitat added, 6 acres of predator hot spot reduction, with over 60 clusters of large wood for cover. Partners include: City of Anderson, City of Red Bluff, City of Redding, Chico State University, Glenn-Colusa Irrigation District, California Department of Fish and Wildlife, California Department of Water Resources, Golden Gate Salmon Association, Pacific States Marine Fisheries Commission, RD 108, River Partners, Sacramento River Forum, Trout Unlimited, U.S. Forest Service, U.S. Fish and Wildlife Service, and Western Shasta Resource Conservation District.

Channel Restoration Phase 3C, Clear Creek (Completed 2020):

The creation of 18.5 acres of rearing habitat near Redding, California with over 100 clusters of large wood for cover. Partners include: Bureau of Land



Phase 3C on Clear Creek, CA looking Upstream

Management, California Department of Fish and Wildlife, California Department of Water Resources, U.S. Fish and Wildlife Service, and Yurok Tribe.

Gravel Injection, Clear Creek (Completed 2020):

Maintaining 13.2 acres of spawning habitat near Redding, California with over 22 large boulder clusters and wood added for cover. Partners include: California Department of Water Resources, National Park Service, Bureau of Land Management, and California Department of Fish and Wildlife.



Sailor Bar Side Channel and Spawning Riffle, looking upstream

Sailor Bar Salmonid Spawning and Rearing Habitat Restoration, American River (Completed 2020):

Maintaining 1.5 acres of spawning habitat in Sacramento, California, 2 acres of spawning habitat,

2 acres of rearing habitat, and 1 acre of floodplain habitat added. Partners include: National Marine Fisheries Service, Sacramento County, American River Water Forum, SAFCA, California Department of Fish and Wildlife, and U.S. Fish and Wildlife Service.

Rio Vista, Sacramento River (Completed 2020): The creation of .25 acres of spawning habitat near Rio Vista, California, 2 acres of rearing habitat added with over 15 clusters of large wood for cover. Partners include: City of Anderson, City of Red Bluff, City of Redding, Chico State University, Glenn-Colusa Irrigation District, California Department of Fish and Wildlife, California Department of Water Resources, Golden Gate Salmon Association, Pacific States Marine Fisheries Commission, RD 108, River Partners, Sacramento River Forum, Trout Unlimited, U.S. Forest Service, U.S. Fish and Wildlife Service, and Western Shasta Resource Conservation District.

Redding, Sacramento River (Completed 2020): The creation of 8 acres of rearing habitat near Redding, California, 5 acres of floodplain habitat added, 12 acres of predator hot spot reduction, with over 100 clusters of large wood for cover. Partners include: City of Anderson, City of Red Bluff, City of Redding, Chico State University, Glenn-Colusa Irrigation District, California Department of Fish and Wildlife, California Department of Water Resources, Golden Gate Salmon Association, Pacific States Marine Fisheries Commission, RD 108, River Partners, Sacramento River Forum, Trout Unlimited, U.S. Forest Service, U.S. Fish and Wildlife Service, and Western Shasta Resource Conservation District.



Fremont Weir with Sacramento River on the right and the Yolo Bypass on the left.

Fremont Weir Adult Fish Passage (Completed 2018): Reclamation and the California Department of Water Resources improved adult fish passage at the Fremont Weir and along the Tule Canal

in the Yolo Bypass. The project constructed a new fish passage structure at Fremont Weir to widen and deepen the fish ladder and removed barriers in the Tule Canal.

Upcoming Projects

Reclamation advertised a competitive grant program for habitat restoration on the Sacramento River in 2020 with four recipients for award and maintains additional agreements on the Sacramento River, Clear Creek, American River, and Stanislaus River. Currently anticipated projects include:

Yolo Bypass, Sacramento River (Planned for 2025): The creation of 20,000 acres of floodplain habitat near Sacramento, California. Partners include: California Department of Fish and Wildlife and Department of Water Resources.

Meridian Farms Pump Replacement, Sacramento River (Planned for 2024): The creation of 6.8 acres of rearing habitat in Meridian, California and 3 acres of predator hot spot reduction. Partners include: Meridian Farms Water Company and California Natural Resources Agency.

East Sand Slough Restoration, Sacramento River (Planned for 2022): The creation of 7.1 acres of rearing habitat near Red Bluff, California, with over 400 clusters of large wood for cover and 1 acre of predator hot spot reduction. Partners include: Sacramento River Forum, Tehama County, Resource Conservation District, U.S. Fish and Wildlife Service, City of Red Bluff, and Glenn-Colusa Irrigation District



Chinook Salmon

Tobiason Island, Sacramento River (Planned for 2023):

The creation of 1 acre of spawning habitat near Redding,

California, 4 acres of rearing habitat added, with over 80 clusters of large wood for cover. Partners include: City of Anderson, City of Red Bluff, City of Redding, Chico State University, Glenn-Colusa Irrigation District, California Department of Fish and Wildlife, California Department of Water Resources, Golden Gate Salmon Association, Pacific States Marine Fisheries Commission, RD 108, River Partners, Sacramento River Forum, Trout Unlimited, U.S. Forest Service, U.S. Fish and Wildlife Service, and Western Shasta Resource Conservation District

Rockwad Installation, Sacramento River (Planned for 2023): The creation of 2 acres of rearing habitat near Anderson, California with over 50 clusters of large wood added for cover. Partners include: City of Anderson, City of Red Bluff, City of Redding, Chico State University, Glenn-Colusa Irrigation District, California Department of Fish and Wildlife, California Department of Water Resources, Golden Gate Salmon Association, Pacific States Marine Fisheries Commission, RD 108, River Partners, Sacramento River Forum, Trout Unlimited, U.S. Forest Service, U.S. Fish and Wildlife Service, and Western Shasta Resource Conservation District

Shea Side, Sacramento River (Planned for 2023): The creation of 1.7 acres of spawning habitat near Redding, California, 2.5 acres of rearing habitat added, with over 40 clusters of large wood added for cover. Partners include: City of Anderson, City of Red Bluff, City of Redding, Chico State University, Glenn-Colusa Irrigation District, California

Department of Fish and Wildlife, California Department of Water Resources, Golden Gate Salmon Association, Pacific States Marine Fisheries Commission, RD 108, River Partners, Sacramento River Forum, Trout Unlimited, U.S. Forest Service, U.S. Fish and Wildlife Service, and Western Shasta Resource Conservation District.

Kapusta, Sacramento River (Planned for 2023): The creation of 1 acre of spawning habitat near Redding, California, 2.8 acres of rearing habitat added, with over 40 clusters of large wood added for cover. Partners include: City of Anderson, City of Red Bluff, City of Redding, Chico State University, Glenn-Colusa Irrigation District, California Department of Fish and Wildlife, California Department of Water Resources, Golden Gate Salmon Association, Pacific States Marine Fisheries Commission, RD 108, River Partners, Sacramento River Forum, Trout Unlimited, U.S. Forest Service, U.S. Fish and Wildlife Service, and Western Shasta Resource Conservation District.

Tisdale Weir Sturgeon and Salmonid Passage, Sacramento River (Planned for 2022): The creation of .5 acres of rearing habitat near Arbuckle, California. Partners include California Department of Fish and Wildlife, California Department of Water Resources, National Marine Fisheries Service, and U.S. Fish and Wildlife Service.

Lower Sailor Bar Salmonid Spawning and Rearing Habitat Restoration, American River (Planned for 2022): Maintaining 3 acres of spawning habitat in Sacramento, California, 5 acres of spawning habitat, 1.6 acres of rearing habitat, and 1 acre of floodplain habitat added with over 70 clusters of large wood for cover. Partners include: National Marine Fisheries Service, Sacramento County, American River Water Forum, Sacramento Area Flood Control Agency, California Department of Fish and Wildlife, and U.S. Fish and Wildlife Service.

In 2021, Reclamation advertised a second competitive grant program with proposals due November 30, 2021. This Notification Of Funding Opportunity (NOFO) for Central Valley Project Habitat & Facility Improvements is available at: <https://www.grants.gov/web/grants/view-opportunity.html?oppld=335537>