Draft Early Implementation Project List

Final Draft

August 30, 2024

The following table provides a non-exhaustive list of Non-flow Measures that may potentially be credited under Early Implementation, pending testing and refinement of the Non-flow Measure accounting description provided in the Strategic Plan. A designation of "N/A" means that habitat component is not applicable to that specific project.

Tributary	Project	Description	Instream Rearing (acres)	Spawning Existing (acres)	New Spawning (acres)	Floodplain (acres)	Tidal (acres)	Fish Food Production (acres)	Fish Passage	Stranding Area Removed (acres)	Large Wood Clusters (# added)	Boulder Clusters Added (# added)	Est Completion Date
American River	American River Salmonid Habitat Enhancement Program - Upper River Bend, Phase 1	Excavating material from the floodplain to create side channel habitat for juvenile rearing. The excavated material would be sorted and placed into the river to improve substrate conditions for adjacent spawning.	5.7	N/A	5	N/A	N/A	N/A	N/A	N/A	40	N/A	Completed 2023
American River	American River Salmonid Habitat Enhancement Program - Ancil Hoffman	Restore juvenile Chinook salmon and steelhead rearing habitat and enhance natural channel processes. Add spawning and rearing habitat.	5.7	N/A	6.6	N/A	N/A	N/A	N/A	N/A	15	N/A	Completed 2021
American River	American River Salmonid Habitat Enhancement Program - Lower Sailor Bar	Restore juvenile Chinook salmon and steelhead rearing habitat and enhance natural channel processes. Add spawning and rearing habitat.	5.6	N/A	13.4	N/A	N/A	N/A	N/A	N/A	35	N/A	Completed 2022
American River	American River Salmonid Habitat Enhancement Program - Upper Sailor Bar	Restore juvenile Chinook salmon and steelhead rearing habitat and enhance natural channel processes. Add spawning and rearing habitat.	2.1	N/A	3.4	N/A	N/A	N/A	N/A	N/A	10	N/A	Completed 2019

American River	American River Salmonid Habitat Enhancement Program - River Bend, Phase 1	Restoration and enhancement of spawning and rearing habitat for anadromous fish, primarily through gravel addition and/or floodplain or side channel excavation.	3.5	N/A	5	N/A	N/A	N/A	N/A	3.5	35	N/A	Completed 2024
American River	American River Salmonid Habitat Enhancement Program - Nimbus Basin	Spawning/rearing habitat combination project. Maintenance of previously enhanced site that experiences heavy spawning activity due to location in river. Included in completed programmatic permitting effort.	1.5	N/A	3.4	N/A	N/A	N/A	N/A	N/A	19	N/A	Completed 2022
Delta	Lower Elkhorn Basin Levee Setback	Multi-benefit project to set back the north Sacramento Bypass and east Yolo Bypass levee. Will include restoration/habitat creation and floodplain agriculture.	N/A	N/A	N/A	20	N/A	2,000	N/A	N/A	N/A	N/A	Completed 2023
Delta	Tide's End	2,000+ acre floodplain, tidal restoration, and farmland food production project. Benefits to Delta and longfin smelt spawning & rearing habitat and salmonid rearing habitat.	N/A	N/A	N/A	1,000	1,000	N/A	N/A	N/A	N/A	N/A	2025
Delta	Prospect Island	1,600-acre tidal restoration project with benefits to Delta and longfin smelt spawning and rearing habitat, and salmon rearing habitat.	N/A	N/A	N/A	800	800	N/A	N/A	N/A	N/A	N/A	2024
Delta	McCormack-Williamson Tract	Restore hydrologic function and habitat on the 1,654-acre McCormack-Williamson Tract in a manner that also helps provide flood relief to the North Delta region by reconnecting the site as a floodplain to the Mokelumne River.	N/A	N/A	N/A	1,654	N/A	N/A	N/A	N/A	N/A	N/A	2024
Delta	Dutch Slough	Restoration of remaining 487-acre parcel of land attached to the existing Dutch Slough restoration site. Mult benefit project including flood protection, tidal marsh, riparian, and rare dune habitat restoration.	N/A	N/A	N/A	287	200	N/A	N/A	N/A	N/A	N/A	2025

Delta	Little Egbert Tract	~3,000-acre tidal restoration and flood risk reduction project. Benefits to Delta and longfin smelt spawning & rearing habitat, and salmonid rearing habitat.	N/A	N/A	N/A	1,500	1,500	N/A	N/A	N/A	N/A	N/A	2028
Delta	Grizzly Slough	Design and build floodplain habitat to maximize rearing capacity within 1.3 to 2-year return periods. Improves instream growth and improves outmigrant survival along the Cosumnes River, Dry Creek, and Mokelumne River.	N/A	N/A	N/A	180	N/A	N/A	N/A	N/A	N/A	N/A	2024
Feather River	2023 Gravel Supplementation Project	Add 7,000 cubic yards of spawning gravel for Chinook salmon and steelhead.	N/A	N/A	4.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Completed 2023
Feather River	Garden Highway Mutual Water Co. Fish Screen Project	Eliminate fish mortality due to diversions of water from CVP rivers in the Central Valley.	5.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Done
Feather River	Sunset Pumps	Remove a fish passage barrier to upstream salmon, steelhead, and sturgeon spawning habitat. Install fish protective screens at existing diversions to reduce mortality of juveniles.	N/A	N/A	N/A	N/A	N/A	N/A	Yes	N/A	N/A	N/A	2026
Feather River	Nelson Slough Floodplain Restoration	Increase floodplain habitat available to Feather, Yuba, and Bear River salmonids by 3,000 - 5,000 acres.	N/A	N/A	N/A	3,000	N/A	N/A	N/A	N/A	N/A	N/A	2027
Mokelumne River	Gravel Enhancement Maintenance	Provide maintenance gravel annually to existing restored 1-mile reach on the Lower Mokelumne River. Maintains habitat suitability in enhanced spawning areas.	N/A	0.87	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Annual
Mokelumne River	Screen High Priority Diversions	Prioritize riparian pumps for screening based on timing of operation and size of fish passing. Screen highest priority pumps. Improve survival of juveniles.	0.87	N/A	N/A	N/A	N/A	N/A	3	N/A	N/A	N/A	Completed 2021

Mokelumne River	Creation of Floodplain Habitats	Desing and build floodplain habitat to maximize rearing capacity in a 2- or 3-year recurrence cycle. Improves instream growth and improve outmigrant survival.	N/A	N/A	N/A	3.67	N/A	N/A	N/A	N/A	N/A	N/A	2026
Mokelumne River	Lower Mokelumne River Salmonid Spawning and Rearing Habitat Improvement	Excavate and recontour lower Mokelumne River stream bank to provide seasonal floodplain habitats for juvenile salmonid rearing and to sort and harvest gravel and cobble (1/4"-5") from excavated materials, which will be used to improve or expand nearby spawning habitats.	N/A	N/A	2.14	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Completed 2021
Putah Creek	Expansion of Available Spawning Habitat	Create 62,000 sq ft of spawning habitat in Lower Putah Creek.	N/A	N/A	1.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2024
Sacramento River	Keswick	Add 48,000 tons of spawning gravel over three seasons to benefit salmon and steelhead.	N/A	N/A	18.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2022-2024
Sacramento River	Middle Creek	Create four acres of spawning habitat to benefit salmon and steelhead.	N/A	N/A	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2024
Sacramento River	Market Street	Create three acres of spawning habitat to benefit salmon and steelhead.	N/A	N/A	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Completed 2019
Sacramento River	Redding Riffle	Create seven acres of spawning habitat to benefit salmon and steelhead.	N/A	N/A	7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2025
Sacramento River	Turtle Bay	Create 4-5 side channels, rearing, and spawning habitat to benefit salmon and steelhead.	6	N/A	2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2027
Sacramento River	Olney Creek	Remove a fish barrier to open access to two miles of rearing habitat for salmon and steelhead.	12.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2026
Sacramento River	Bonnyview Ranch Island	Create side channel rearing and spawning habitat to benefit salmon and steelhead.	3.7	N/A	4.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2025

Sacramento River	Kapusta Island	Construct a series of side channels to connect a series of stranding pools, resulting in new rearing and spawning habitat for salmon and steelhead.	3	N/A	0.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Completed 2023
Sacramento River	Kapusta Island 1B	Construct rearing habitat in perennial side channels and add spawning habitat for salmon and steelhead.	4	N/A	0.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Completed 2023
Sacramento River	Battle Creek	Restore spawning and rearing habitat near the confluence of Battle Creek to benefit salmon and steelhead.	47	N/A	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2027
Sacramento River	Elks Lodge	Restore juvenile salmon and steelhead in-channel and floodplain rearing habitat.	1.5	N/A	N/A	1.5	N/A	N/A	N/A	N/A	N/A	N/A	2024
Sacramento River	South Sand Slough	Improve and connect side channel rearing habitat for juvenile salmon and steelhead.	8.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2026
Sacramento River	Blackberry Island	Restore and connect side channel rearing habitat for juvenile salmon and steelhead.	2.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2026
Sacramento River	McClure Creek	Enhance perennially inundated side channel rearing habitat to benefit juvenile salmon and steelhead.	18.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2025
Sacramento River	Wilson	Reconnect off-channel rearing habitat and add cover elements to benefit juvenile salmon and steelhead.	21.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2025
Sacramento River	Indian Fishery	Create off-channel rearing habitat and add cover elements to benefit juvenile salmon and steelhead.	18.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2025
Sacramento River	Willow Bend	Enhance floodplain rearing habitat and elimination of fish stranding by reconnecting floodplain habitat, enhancing rearing conditions, and increasing habitat complexity.	N/A	N/A	N/A	87	N/A	N/A	N/A	N/A	N/A	N/A	2025

Tuolumne River	Tuolumne River Mainstem Channel Restoration Upstream of La Grange Bridge	Improve spawning and rearing habitat for Chinook salmon and resident and anadromous O. mykiss	Fall Chinook 0.48 O. mykiss 2.54	0.89	2.17	N/A	N/A	N/A	N/A	N/A	24	12	2024
Yuba River	Hallwood Side Channel and Floodplain Restoration Project	The project footprint is approximately 155 acres. Included the creation and enhancement of 121 acres of juvenile floodplain rearing habitat and 3.3 miles of seasonal channels, alcoves, and swales. The project improved natural river morphology and increased floodplain habitat, riparian habitat, instream cover, and habitat complexity, diversity and availability over a broad range of design flows.	34	N/A	N/A	121	N/A	N/A	N/A	N/A	N/A	N/A	Completed 2024
Yuba River	Long Bar Salmonid Habitat Restoration Project (Lower Long Bar)	The project footprint is about 43 acres. Included the creation of seasonally or perennially inundated side channels (5.9 acres), backwaters (2.4 acres), flood runner channels (1.9 acres), and backwater channel (5.4 acres), and lowering of floodplain elevations (27.2 acres) to support juvenile salmonid rearing habitat.	16	N/A	N/A	27	N/A	N/A	N/A	N/A	N/A	N/A	Completed 2022
Yuba River	Upper Rose Bar Salmonid Spawning Habitat Restoration Project	The project footprint is approximately 40 acres and will provide approximately 5 acres of salmon spawning habitat. The project also includes placement of large wood, and other measures that provide refugia and suitable rearing habitat for juvenile salmonids, resulting in approximately 1.2 acres of juvenile Chinook salmon instream rearing habitat.	1.2	N/A	5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2024