

Sacramento River

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Project	Description	Targeted Habitat/ Acreage	Instream Habitat (ac)	Spawning Habitat (ac)	Rearing Habitat (ac)	Floodplain Habitat (ac)	Tidal Habitat (ac)	Fish Food Production (ac)	Fish Passage	Estimated Cost	Implementation Lead	CEQA Lead	Primary Funding Source(s)	Year Shovel Ready	Start Year	Finish Year
Suggested 2023-2024 Priority Projects																
Willow Bend	Modify a side channel to provide access to 3,400 ft. of seasonally inundated habitat and remove a stranding hazard. (~4.7 acres)	Riparian and rearing	3.5		4.7					\$477,046	River Partners		CVPIA	2024	2022	2024
Dog Island Side Channel Restoration	Restores more than 1.25 acres of side channel rearing habitat	Riparian and rearing	1.25		1.25	0.2				\$1,695,084	GCID		CVPIA	2024	2022	2026
Fish Food Pilot Program - Phase I	See "Tidal through Floodplains" tab	--							--	--	--	--	--	--		
Landscape Scale Multi-Benefit Floodplain Feasibility Study	Wetland benefits and restored flood infrastructure on 100,000+ acres. Investigates the potential re-thinking of low flows in the flood system during the winter months and the existing wetted footprint in the Butte Sink, Sutter Bypass and Colusa Basin. Includes investigating combinations of options at the multiple weir and gated outlet structures to ensure they have the flexibility to work together. Develops the necessary models to evaluate options and assembles the team necessary to develop options and create a permittable plan to be implemented.	Study								Funded	RD 108	--	Prop 68	--		
Shea Island- supplemental scope	Restore and connect side channel	Rearing, spawning for both winter and summer run salmon. Reduce stranding issues. 10ac Rearing, 4-5 spawning.	2.5	1.7	10					\$3,443,737	CSE/Sac River Forum	Regional WQCB lead. DWR-NRO tech assisting. CEQA exemption?	Need funding	2023	2022	2024
Rancho Briesgau Channel/Rearing	Increase existing suitable spawning habitat area; improve of natural river morphology; increase floodplain habitat, riparian habitat, and instream cover.	Spawning, rearing, growth, migration. +/- 13AC spawning and rearing		13	13					\$8,000,000	Recommend CSE/ Sac Forum in bundle with adjacent current projects	TBD. Potentially RWCB	Need funding	2024		
Kopta Slough	Revetment removal to facilitate natural fluvial geomorphic migration; potential floodplain restoration. Improve natural river morphology, riparian habitat, instream cover, and habitat complexity	Rearing, riparian, viability. growth/food. 170 acres of floodplain habitat restoration of infrequent inundation. 5600 feet of natural shaded riverine aquatic (SRA) habitat bank restoration (<10 ac)				170				\$11,000,000 (Fully funded)	DWR	DWR	Partially funded-pending agreement	2024	2023	2027
Tisdale Weir and Bypass Multibenefit Project	See "Tidal through Floodplains" tab	--							--	--	--	--	--	--		
Elks Lodge Floodplain Habitat	Rehabilitate and reconnect ~3 acres of offstream rearing habitat	Floodplain rearing	1			1				\$734,468	GCID		CVPIA	2023	2022	2024
South Sand Slough Side Channel Restoration	Improve and fully connect ~8.5 acres of side channel riparian habitat	Riparian and rearing	4		8.5					\$961,146	GCID		CVPIA	2023	2022	2024
Wilson Landing	Reconnect 4,500 ft. of side channel and add boulders and woody material to provide juvenile cover. Provide access to an additional 4,700 ft. of off-channel habitat. (~21.7 acres)	Riparian and rearing			21.7					\$1,899,629	River Partners		CVPIA	2023	2022	2025
Blethen Island Side Channel Project	Create and connect ~ 6.7 acres of side channel and riparian habitat	Riparian and rearing			6.7					\$1,459,251	GCID		CVPIA	2023	2022	2025
Screen Meridian Farms Water Company	Install fish screen	Improved fish passage	6.5						X	\$57,560,600.00	USBR/SRSC		Prop 68 / CVPIA	2023	2021	2026
Rockwad Placement II	Install 20-25 rootwad/rockwad habitat structures which provides instream cover and complexity in a 5 acre area.	Instream rearing	5							\$1,132,681	GCID		CVPIA	2024	2022	2024
Blackberry Island Side Channel Restoration	Restore and reconnect ~2.4 acres of side channel riparian habitat	Riparian and rearing			2.4					\$2,621,545	GCID		CVPIA	2024	2022	2025
Priority Projects: Implementation likely beyond 2024 but																
Stillwater	Creating and rehabilitating two side channels with ~6 acres of riparian/rearing habitat.	Riparian and rearing			6					\$2,209,219	RD 108		CVPIA	2025	2022	2025
Indian Fishery	Create 10,500+ ft. of seasonally inundated juvenile rearing habitat including boulder and woody material placement. Modify a secondary channel to inundate more frequently. (~18.3 acres)	Riparian and rearing			18.3					\$4,260,917	River Partners		CVPIA	2025	2022	2024
Dos Arroyos	Floodplain reconnection at the confluence of Big Chico and Mud Creek. (up to 52 acres)	Riparian and rearing			52					\$327,550	River Partners		CVPIA	2025	2022	2024
Olney Creek Restoration for Non-Natal Habitat	Removes fish barrier and opens 2+ miles of non-natal rearing habitat (~12.5 acres)	Rearing			12.5					\$1,332,229	GCID		CVPIA	2025	2022	2026
Willow Bend	Enhancement of 87 acres of floodplain rearing habitat and elimination of fish stranding. Reconnects floodplain; enhances rearing conditions, riparian habitat, and habitat complexity.	Riparian; floodplain rearing habitat				87				Funded	River Partners		Prop 68			
Battle Creek projects: levee decommission, fix stranding, and create floodplain on BLM & CDFW land	Restore 47.3 acres of juvenile salmon habitat and 4.3 acres of spawning habitat along the Sacramento River near the Battle Creek confluence.	Spawning and rearing		4.3	47.3					\$9,999,997	Chico State Enterprises/Sac River Forum				2022	2027
Kapusta 1A	Split up due to timing and funding. 1A higher priority. 1A is side channel.		1							\$250,000.00					2015	2018
Turtle Bay	Creating complex side channels on a 17 acre gravel bar island, including adding ~7500 tons of spawning gravel. 4-5 side channels up to 1000 ft in length. Approximately 6 acres of riparian/rearing habitat and 2 acres of spawning habitat	Riparian and rearing		2	6					\$1,968,567	RD 108		CVPIA	2026		
McClure Creek	Enhance 10,000 ft. of perennially inundated side channel rearing habitat (~18.4 acres)	Riparian and rearing			18.4					\$1,660,685	River Partners		CVPIA	2026	2022	2025
Middle Creek	Adding ~12,500 tons of spawning gravel into the system, creating riffles and spawning habitat, +/- 4 acres	Spawning		15						\$862,575	RD 108		CVPIA	TBD		
South Shea Levee	Increase existing suitable spawning habitat area; improve of natural river morphology; increase floodplain habitat, riparian habitat, and instream cover.	Spawning and rearing								\$500,000				0-5 Years		
Shea Levee	Increase existing suitable spawning habitat area; improve of natural river morphology; increase floodplain habitat, riparian habitat, and instream cover.	Spawning and rearing								\$700,000				0-5 Years		

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Project	Description	Targeted Habitat/ Acreage	Instream Habitat (ac)	Spawning Habitat (ac)	Rearing Habitat (ac)	Floodplain Habitat (ac)	Tidal Habitat (ac)	Fish Food Production (ac)	Fish Passage	Estimated Cost	Implementation Lead	CEQA Lead	Primary Funding Source(s)	Year Shovel Ready	Start Year	Finish Year
Kutras Lake Project	Increase existing suitable spawning habitat area; improve of natural river morphology; increase floodplain habitat, riparian habitat, and instream cover.	Spawning and rearing								\$300,000				6-10 Years		
China Gardens Side Channel	Increase existing suitable spawning habitat area; improve of natural river morphology; increase floodplain habitat, riparian habitat, and instream cover.	Spawning and rearing								\$1,000,000				11-15 Years		
China Bend* *Privately held project & property. Next steps contingent upon further discussions with private entities.	Creation and improvement of side channel habitat; potential ox bow restoration sites; setback levee(?). Improve natural river morphology, riparian habitat, instream cover, and habitat complexity.	Rearing and riparian	1.8			196				\$10,000,000.00					2024	2028
Missouri Bend* *Privately held project & property. Next steps contingent upon further discussions with private entities.	Creation and improvement of side channel habitat; potential ox bow restoration sites; setback levee(?). Improve natural river morphology, riparian habitat, instream cover, and habitat complexity.	Rearing and riparian								Privately held project & pr						
Additional setback levees	Construct setback levee on existing Sac levees with willing landowners.	Rearing and riparian														
Reduced Lighting and Sacramento River Bridges	Perform study on bridges and lighting conditions and work with agencies to reduce lighting. Increases survival of migrating fish by reducing predation risks.	Improved fish passage							X	\$750,000				0-5 years		
Screen Natomas Mutual Water Company (Riverside Diversion)	Install fish screen to minimize entrainment and increase survival.	Improved fish passage	2.3						X	\$10,562,500	Brett Gray, Natomas Central Mutual Water Company or Jenna Paul, USBR	Sacramento Area Flood Control Agency		0-5 years	2021	2024
Screen Natomas Mutual Water Company (Elkhorn Diversion)	Install fish screen to minimize entrainment and increase survival.	Improved fish passage	3						X	\$18,907,000	Brett Gray, Natomas Central Mutual Water Company or Jenna Paul, USBR	Sacramento Area Flood Control Agency		0-5 years	2023	2025
Anderson Cottonwood Irrigation District Dam Operations to Project Salmon Redds	Modification to weir and bypass operations. Increases existing suitable spawning habitat area	Spawning								\$1,000,000				0-5 years		
Study, Design, and Implement Modifications to Known Redd Dewatering Locations	Perform study on redd locations and water elevations based on river stages to increase existing suitable spawning habitat area	Spawning								\$2,000,000				0-10 years (annual)		
Program for Identification of Predation Hot Spots.	Perform study and adaptively manage to reduce predator contract points at man-made structures. Study currently occurring.	Improved fish passage								\$500,000				0-2 years		
Study Route-Specific Survival at Key Diversion Facilities	Perform study and implement appropriate devices that will increase survival in migration routes with higher mortality.	Improved fish passage								\$10,000,000				0-10 years; Annual plan within one year		
Willow Bend Levee and Moulton Weir Setback Project	The Willow Bend Levee and Moulton Weir Setback Project is a multi-benefit flood protection project improving both flood conveyance, levee protection, and ecosystem function within the Sacramento River. The project is located at approximately river mile 158 along the east bank of the Sacramento River at Moulton Weir. The project area is adjacent to other State and private conservation and recreational areas and would connect these properties to make over 400 contiguous within levee acres of wildlife habitat and supports goals of the Management Plan for the Sacramento River Wildlife Area as well as SB 1653. The project entails removal of approximately 2 miles of the existing levee and Moulton Weir, construction of a new setback levee and weir, elevating River Road to prevent flooding, and creation of 230 acres of floodplain.	Riparian forest/floodplain added within the levee corridor (230ac) and contiguous habitat (400ac)								TBD						
Completed Projects																
Salt Creek Gravel Injection	Improve substrate conditions for spawning salmonids at key riffles. Increase existing suitable spawning habitat area, up to 25,000 CY.	Spawning		3						\$600,000				2023	2022	2023
Redding Riffle	Adding ~15,000 tons of spawning gravel into the system, creating riffles and spawning habitat, +/- 7 acres	Spawning		3						\$803,148	RD 108		CVPIA	2023	2022	2023
Tobiasson Island	Create 3700 ft. of new perennially inundated side channels juvenile rearing habitat (~3.7 acres). Constructed mainstem riffle spawning habitat (~4.9 acres).	Rearing, spawning, and riparian		4.9	3.7					\$1,374,141	River Partners		CVPIA	2024	2022	2023
Anderson River Park Side Channel	Established 10.11 acres (7,529 linear feet) of perennial channel. Enhanced 7.69 acres (2,766 linear feet) of existing stream. Spawning and rearing habitat for Chinook salmon and steelhead trout	Spawning and rearing	10.11	1	7.69					\$3,300,000	CSE/Sac River Forum/Yurok		CVPIA	2019	2019	2021
Kapusta Island	1B is island restoration to improve spawning and rearing habitat, and reducing stranding potential for winter and fall run salmon. 1B is adjacent to and near 1A. Unique or separate project due to access to island and triggers different construction methods, equipment and permitting with in-river work.	Spawning and rearing. Approx 2.5-3 AC of rearing, and 1 AC spawning. IN channel work		1	2.5	1				\$1,627,151	CSE/Sac River Forum	Regional WQCB lead. DWR-NRO tech assisting. CEQA exemption?	**Need to clarify funding needs	**Need to clarify timelines	2019	2023
Reading Island Side Channel	Established 4,612 linear feet (4.52 acres) of suitable perennial stream habitat and enhanced 7,311 linear feet (16.5 acres) of a downstream stretch of an existing creek for Chinook Salmon rearing and spawning	Spawning and rearing	8	0.25	8	8				\$3,100,000	CSE/Sac River Forum		CVPIA	2019	2019	2020
Rio Vista Side Channel Habitat Project	Provides one acre of side channel rearing habitat in the upper Sacramento River (Aerial extent of channel is 2.54 acres - or 1,787 linear feet of channel)	Spawning and rearing	2.54	0.25	1					\$1,000,000.00	CSE/Sac River Forum/SRSC		CVPIA	2019	2019	2020
East Sand Slough	Increase existing suitable spawning habitat area; improve of natural river morphology; increase floodplain habitat, riparian habitat, and instream cover.	Spawning and rearing			8	5				\$6,038,000			CVPIA	2022	2020	2022
Keswick	Adding up to 20,000 tons of spawning gravel into system each time, maintains spawning areas (+/- 8 acres) for Winter Run Chinook	Spawning		8						\$11,135,550	RD 108		CVPIA	2022	2018	2022
Market Street Spawning Gravel Project	Approximately 9,400 cubic yards of gravel, or 12,000 to 15,000 tons, placed into the river to help improve spawning habitat for Chinook salmon and steelhead trout	Spawning		3							Sac River Forum/SRSC		CVPIA	2019		

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South Cypress Island Side Channel Restoration Project	Developed 4.8 acres of spawning and rearing habitat in the upper reach of the Sacramento River. Perennial channel extent = 7.27 acres. Channel length = 2932 feet.	Spawning and rearing	7.27	1	5						CSE/Sac River Forum/SRSC/ City of Redding		CVPIA	2021		
Market Street	Adding up to 12,000 tons of spawning gravel into system each time, provides spawning areas (+/- 6 acres) for Winter Run Chinook	Spawning		3						\$1,279,456	RD 108		CVPIA	2023	2019	20223
Kapusta 1B Side Channel	Created a 2,400 foot long side channel along the west side of the Sacramento River	Spawning and rearing		0.5	2					\$1,900,000	CSE/Sac River Forum		CVPIA	2022		
Rockwad Structures Phase II	Placed 20 additional rockwad structures at Bonnyview Bridge to provide additional spawning and rearing habitat	rearing			2					\$1,132,681.00	SAVER/SRSC		CVPIA	2023	2023	2024
Rockwads I	Install 20-25 rootwad/rockwad habitat structures which provides instream cover and complexity in a 5 acre area.	Instream rearing		5						\$953,990	RD 108		CVPIA	2023		
Habitat Totals			32.92	18	36.19	14	0	0	0							