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2021													
ACFHP Operational Funding	2021	Yes	Yes	Yes	VA	No	Atlantic Coastal Fish Habitat Partnership	Atlantic States Marine Fisheries Commission	Completed	1	$85,000	$85,000	The project seeks funding to sustain Atlantic Coastal Fish Habitat Partnership (ACFHP) operations, supporting personnel salaries, partner travel, and meeting costs. It aims to fulfill its mission outlined in the Strategic and Action Plans (2017-2021, with new plans for 2022-2026 in development).
Dam Removal and Diadromous Restoration of the Norwalk River Watershed at Merwin Meadows Park	2021	Yes	Yes	Yes	CT	No	Atlantic Coastal Fish Habitat Partnership	Save the Sound	Completed	2	$50,000	$50,000	This project will remove the derelict Strong Pond Dam (CT Dam #16105), also locally known as Dana Dam, which is a six-foot high and 90-foot long run-of-river dam located nine miles from Long Island Sound in the Town of Wilton's Merwin Meadows Park. Built a century ago to create a recreational pond, the dam blocks fish migration and presents a significant flooding and safety hazard. Removal will restore fluvial processes in the Norwalk River, benefit diadromous fish species, and mitigate flood risk to adjacent infrastructure.
Comprehensive South River and Herring Bay Tributary Scale Oyster Restoration Project	2021	Yes	Yes	Yes	MD	No	Atlantic Coastal Fish Habitat Partnership	Chesapeake Bay Foundation	Completed	3	$50,000	$50,000	The goals of this project are to implement large-scale oyster restoration in the South River oyster sanctuary, demonstrate the ecosystem value of oyster restoration, and develop a framework for community-based oyster restoration that can be transferred to other tributaries and communities
Ames Pond Dam Removal & Fishway Construction, Monatiquot River, Braintree, MA (2)	2021	Yes	Yes	Yes	MA	No	Atlantic Coastal Fish Habitat Partnership	Town of Braintree	Completed	4	$100,000	$100,000	The Ames Pond Dam and Rock Falls are two of three fish passage barriers on the Monatiquot River. This project will remove the Ames Pond Dam and install a pool-and-weir fishway around the Rock Falls to restore 36 miles of unimpeded upstream access for river herring and American eel. The project includes the removal of the Armstrong Dam which is proposed under a separate ACFHP application. The Town is currently advancing the project through permitting and final design with construction scheduled to begin in July 2023. The landowner is Hollingsworth Pond LLC., an active and supportive partner.
Paulina Dam (NJ 21-2) Removal on the Paulins Kill, NJ	2021	Yes	Yes	Yes	NJ	No	Atlantic Coastal Fish Habitat Partnership	The Nature Conservancy	Completed	5	$50,000	$50,000	Removal of the Paulina Dam, along with removal of Columbia (2019) and County Line Dams (2021), will open and improve 45 miles of mainstem and tributaries to migratory and resident fish on the Paulins Kill, the third largest NJ tributary to Delaware River. This dam removal will benefit American shad, American Eel, sea lamprey, Eastern Brook Trout and three state-threatened mussel species. Paulina Dam removal ranked in top 5% of 14,000 dams assessed for benefit to anadromous fish per Northeast Aquatic Connectivity Project. TNC will manage the project and is seeking funding for construction and engineering services.

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Baskahegan Lake and Crooked Brook Flowage Fish Passage Project, Danforth, ME	2021	Yes	Yes	Yes	ME	No	Atlantic Coastal Fish Habitat Partnership	Atlantic Salmon Federation	Completed	6	$50,000	$50,000	This fishway will restore native fish passage to 137 miles of stream for endangered Atlantic salmon and Eastern Brook Trout and will restore access to nearly 9,000 acres of lake habitat for alewives, which are a keystone ecological species in the Gulf of Maine and a highly sought-after source of bait for commercial lobstermen. The Project has also become a centerpiece of the Town of Danforth's vision for community development and downtown revitalization.
CFPF Coordination & Operational Support	2021	Yes	Yes	Yes	CA	No	California Fish Passage Forum	Pacific States Marine Fisheries Commission	Completed	1	$85,000	$85,000	This project consists of coordination and operational activities to support the Forum's various activities and initiatives in support of its goal to restore connectivity of freshwater habitats throughout the historic range of anadromous fish in California. Activities include coordinating and participating in the Forum's Science & Data, Governance, and Policy & Permitting committees, as well as leading the Education & Outreach Committee. Planning and facilitating Forum Steering Committee meetings, and overseeing the creation and distribution of outreach materials relating to the importance of fish passage barrier removal including but not limiting the Forum's website, and barrier case studies. This project also manages and coordinates the Forum's annual funding solicitation process (development of the request for proposals (RFP), evaluation criteria, facilitating project selection, and collection of triennial progress reports from funded projects).
Lower Stotenburg Creek Fish Passage Project	2021	Yes	Yes	Yes	CA	No	California Fish Passage Forum	Smith River Alliance	Completed	1	$49,952	$49,952	Stotenburg Creek Fish Passage Project will take advantage of a valuable opportunity to partner with private landowners to remove all barriers to fish passage along the downstream-most 0.5 miles of Stotenburg Creek, while also increasing habitat complexity and improving the native riparian corridor. These actions will increase the quality and quantity of accessible productive coastal rearing habitat in the Smith River Plain. The project will improve the connection between Stotenburg Creek and the mainstem Smith River through treatment of barriers and impediments to salmonid upstream and downstream passage, by upgrading and/or removing four stream crossings.
Wildcat Creek Fish Passage & Community Engagement Project- Phase 2	2021	Yes	Yes	Yes	CA	No	California Fish Passage Forum	The Watershed Project	Completed	2	$90,000	$90,000	The primary goal of the project is to develop final design drawings for fish passage facility replacement and obtain necessary permits to then pursue funding for a "shovel ready" project. Currently, there are 65% drawings developed by the Corps of Engineers and NHC in 2014. We were awarded an Urban Streams Restoration Grant from the California Department of Water Resources. Forum funds would be used to support an ecological engineering assessment of the Corps of Engineers and NHC 2014 design drawings, and a community outreach effort to raise awareness of creek ecology and the fish passage restoration project.

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Hosie Low Water Crossing	2021	Yes	Yes	Yes	CA	No	California Fish Passage Forum	California Department of Water Resources	Completed	3	$50,000	$50,000	The Hosie Low Water Crossing will be replaced from a road culvert to box culverts and a road crossing to allow passage of water under the crossing with lower velocities. Forum funding would apply to the construction portion of the project. Replacement of the crossing with box culverts will allow for passage of water under the crossing with lower velocities thereby lessening the barrier for the fish population at high and low flows.
CFPF Data Stewardship & GIS Support	2021	Yes	Yes	Yes	OR	No	California Fish Passage Forum	Pacific States Marine Fisheries Commission	Completed	4	$14,817	$14,817	Data work neccesary to advance the mission and strategic objectives of the California Fish Passage Forum
DFHP Operational Support	2021	Yes	Yes	Yes	AZ	No	Desert Fish Habitat Partnership	US Fish and Wildlife Service	Completed	1	$85,000	$85,000	Provides FY22 Operational support for the Desert Fish Habitat Partnership which is critical to continue the purpose of and implementation of the Partnership.
North Fork Tincup Creek Process Based Restoration Phase I	2021	Yes	Yes	Yes	ID	No	Desert Fish Habitat Partnership	US Forest Service Caribou Targhee National Forest	Completed	2	$46,000	$46,000	Low-tech restoration techniques are rapidly expanding in the arid west to improve fish habitat. This project will use several of these techniques to restore and increase aquatic and riparian habitat for the immediate benefit to native species.
Barrier Replacement and Habitat Restoration at Bylas Springs	2021	Yes	Yes	Yes	AZ	No	Desert Fish Habitat Partnership	US Fish and Wildlife Service	Active	3	$71,300	$71,300	This project involves completing population assessments and topographic surveys to inform barrier placement, developing barrier designs, and barrier construction. The newly constructed barriers will protect Gila Topminnow populations and their habitat from Gila River flooding and concomitant non-native fish invasion.
Riparian Restoration of San Felipe Creek	2021	Yes	Yes	Yes	TX	No	Desert Fish Habitat Partnership	Texas Parks and Wildlife Department	Active	5	$46,000	$46,000	This project will remove non-native riparian plant species along 11.5 acres of riparian area. Restoring these areas to a native riparian vegetation assemblage will restore over 1.5 miles of instream habitat by focusing on public land for this stage, the project will serve as a public outreach example for nearby private landowners to allow the same non-native riparian plant techniques. The potential restoration benefit could be upwards of 4 or more instream miles.
R-C Pond Renovation	2021	Yes	Yes	Yes	AZ	No	Desert Fish Habitat Partnership	Trout Unlimited Arizona Council	Completed	6	$11,882	$11,882	This project will replace an ageing springbox to capture all spring flow and replace a dilapidated pipeline that provides water to a pond that serves as an important refuge population for a subunit of roundtail chub. Additionally, since this project is located on a Scout Ranch, an estimated 19,855 user days of recreational fishing opportunities for youth, via summer camps, school field trips, and Scout activities, and increased public access to recreational fishing during the camp off-peak times.

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Driftless Area Restoration Effort national fish habitat partnership, Coordination and Operational Support (2022)	2021	Yes	Yes	Yes	WI	No	Driftless Area Restoration Effort	Trout Unlimited	Completed	1	$85,000	$85,000	Project Manager and Assistant Project Manager organize regional planning meetings with Driftless partners interested in developing conservation projects each year. By organizing and hosting contractor workshops, providing technical assistance in the form of field surveying, developing design plans, helping to find project funding, writing grants, etc., the partnership is expected to continue its high level of success in putting conservation on the ground. Conservation actions and good relationships with landowners expected to maintain and increase number easements for public access for trout angling.
Palkowski Road Crossing Replacement on Danuser Creek, WI	2021	Yes	Yes	Yes	WI	No	Driftless Area Restoration Effort	Buffalo County Highway Division	Completed	3	$50,000	$50,000	Buffalo County and township of Montana removed two undersized pipe culverts and replaced them with a bridge that spanned Danuser Creek on Palkowski (Flury)Road. Replacement of culverts with a bridge reconnected 4.1 miles of stream for native brook trout and sculpin. Improved hydrology and uninterrupted flow on this state designated brook trout reserve stream allowed brook trout to freely move to spawning, rearing, and overwintering habitat. Reduction in streambank erosion from culverts and improved sediment transport restored natural substrate for trout spawning and recolonization of invertebrates that fish and other organism feed upon. The new bridge also benefitted the local community, reducing flooding occurrences that had previously impacted productivity of adjacent crop fields, and eliminating road crossing repairs, making the crossing much safer for local motorists and use by heavy farming equipment.
Chimney Rock Creek Habitat Improvement, Middle Trempealeau Watershed-WI	2021	Yes	Yes	Yes	WI	No	Driftless Area Restoration Effort	Independence Elk Rod and Gun Club, Trout Unlimited	Completed	4	$20,000	$20,000	Chimney Rock Creek, located in the Middle Trempealeau watershed, is a 5.7 mile, class II trout stream which flows into Elk Creek near the town of Elk Creek, Wisconsin. Project goals were to improve water quality through reduction in erosion and phosphorus loading and to improve aquatic habitat for brook trout and other native fish species. In the fall of 2022, 3200 feet of bank were re-shaped, 52 instream habitat structures were installed, and a 40-foot wide riparian grass buffer re-established. This project was the last of three contiguous stream restoration projects on the stream.

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Bruce Valley Habitat Improvement, Middle Trempealeau watershed-WI	2021	Yes	Yes	Yes	WI	No	Driftless Area Restoration Effort	Independence Elk Rod and Gun Club, Trout Unlimited	Completed	5	$20,000	$20,000	Bruce Valley Creek is a 5-mile Class II trout stream that flows into Elk Creek within the Middle Trempealeau watershed, a priority area for the Driftless Area partnership. The stream suffers from excessive sedimentation due to overland and bank erosion, resulting in poor water quality and unsuitable habitat for fish and other aquatic organisms. Project objectives were to improve water quality and in-stream habitat primarily for brook trout. Approximately 0.25 miles of eroding bank were stabilized, instream habitat enhanced, and native vegetation restored in riparian corridor. Landowners committed to maintaining the grassed riparian buffer to ensure long-term bank stability and better water infiltration. Completed riparian and instream work (2023) expected to improved water and habitat quality for brook trout and associated fish community. Donated easement provided fishing access for the public.
EBTJV Operations (FY22)	2021	Yes	Yes	Yes	MD	No	Eastern Brook Trout Joint Venture	Canaan Valley Institute	Completed	1	$85,000	$85,000	The Eastern Brook Trout Joint Venture (EBTJV) has developed a roadmap for wild Brook Trout conservation grounded in science and guided by its mission to facilitate integrated approaches to conserving healthy coldwater aquatic resources and fishable wild Brook Trout populations. The EBTJV coordinator supports the goals and outcomes of the EBTJV. This project is to support EBTJV's base operational functions such as: updating our strategic plan; maintaining and growing our website, social media, other outreach campaigns; coordinating efforts with other conservation groups and NFHAP; sharing information about advances and needs in brook trout management across the scientific and management communities; collaboratively identifying needs and finding coordinating the next range-wide and regional data projects; recruiting and selecting on-the-ground projects; and supporting and growing our own organizational capacity, particularly with our 501c(3) sponsor, Canaan Valley Institute.
Restoration of Riverine Process and Habitat Suitability, Narraguagus River, Beddington, ME	2021	Yes	Yes	Yes	ME	No	Eastern Brook Trout Joint Venture	Project SHARE	Completed	2	$20,000	$20,000	Project added wood and boulder structures to a 0.4-mile reach of the mainstem Narraguagus River, ME, created pools, and intercepted groundwater to create cool habitat. This will benefit brook trout and Atlantic Salmon and their habitats.
Cross Brothers Dam Removal	2021	Yes	Yes	Yes	VT	No	Eastern Brook Trout Joint Venture	Vermont Natural Resources Council	Active	3	$50,000	$100,000	The goal of the project is complete removal of the Cross Brothers Dam and associated structures down to the remaining natural streambed, restoring this river reach to a free-flowing condition and removing an unnatural barrier to wild Brook Trout passage. The project will address management of impounded sediment, and will include measures to restore natural stream channel processes that allow water, sediment, woody debris, and aquatic organisms to move downstream. This change will improve habitat for native, wild Brook Trout and Wood Turtles.

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Culvert Replacement, Blue Lick Run Tributary, Avilton, MD	2021	Yes	Yes	Yes	MD	No	Eastern Brook Trout Joint Venture	Trout Unlimited	Completed	4	$26,000	$26,000	In the summer of 2022, Trout Unlimited's Western Maryland Initiative successfully completed a major Aquatic Organism Passage (AOP) project on a tributary to Blue Lick Run, in the Savage River watershed in western Maryland. Efforts to improve connectivity in the Savage River watershed are important to maintaining population resiliency of Maryland's best brook trout resource. This project removed two ~20ft. long perched metal culverts which previously blocked access to 1.8 miles of headwater habitat. By removing this barrier and replacing it with a "fish-friendly" open-box culvert design, brook trout and other aquatic species can now access prime coldwater spawning habitat and thermal refugia.
Eastern Brook Trout Mini Grant Program for Coldwater Stewardship	2021	Yes	Yes	Yes	WV	No	Eastern Brook Trout Joint Venture	Eastern Brook Trout Joint Venture	Completed	5	$16,244	$16,244	EBTJV offered a one-time program to fund outreach and training related to coldwater conservation with a focus on brook trout in the eastern native geographic range. This is separate from our annual habitat project funding RFP. While our on-the-ground funding seeks to advance conservation by employing direct habitat improvement or brook trout restoration actions, the Coldwater Stewardship Small Grants Program seeks to support the transfer of knowledge and skills, and general awareness, of conservation actions for brook trout. Core requirements include: project is for promotion, education, or training on coldwater conservation, audience extends beyond anglers, the project supports at least one of EBTJV's conservation actions, and project primarily addresses wild brook trout in the Eastern native range. We prioritized projects done in partnership with or with guidance from experienced conservation practitioners, planners, and/or engineers to get the best tools and knowledge to the people who make on-the-ground decisions that directly affect cold water habitat – or to groups to build capacity for future project management.
Culvert Retrofit for Aquatic Passage Restoration, Kirby Brook, Washington, CT	2021	Yes	Yes	Yes	CT	No	Eastern Brook Trout Joint Venture	Housatonic Valley Association	Completed	6	$26,598	$26,598	The project purpose is to use stream simulation design techniques to retrofit an existing barrier culvert on Kirby Brook, in order to restore full aquatic organism passage through the structure, opening up an additional 1.8 miles of high-quality fish habitat in Kirby Brook and its tributaries.
FY22 FFP Coordination, Communication and Operations - IL, IA, MN, MO, WI	2021	Yes	Yes	Yes	WI	No	Fishers and Farmers Partnership	Dubuque County Historic Society - Habitat for Humanity	Completed	1	$35,000	$35,000	Coordination and communications for FFP involve local, regional, and national strategies, contacts and actions. This funding supports internal coordination (engagement with the FFP steering committee, strategic plan development, daily actions to achieve strategic plan goals, administration), outreach and service to target groups (promotion of opportunities, functional outreach tools; relevant programs and a growing network), and attention to national context (National Fish Habitat Partnership requirements, funding and collaborative opportunities).

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FY22 FFP Science Operations - IL, IA, MN, MO, WI	2021	Yes	Yes	Yes	MO	No	Fishers and Farmers Partnership	University of Missouri	Completed	1	$15,000	$15,000	A Science Team (ST) Coordinator will demonstrate science-driven development of fish habitat conservation & restoration strategies leading to project (on-site) & downstream (off-site) benefits to UMRB streams/rivers. Coordinator will lead ST in measurement of results/outcomes at both project & downstream (basin, landscape) scales to enable future learning & regular accountability.
FY22 Boone River Watershed (BRW) Oxbow Restoration Project, IA	2021	Yes	Yes	Yes	IO	No	Fishers and Farmers Partnership	The Nature Conservancy	Completed	2	$26,974	$26,974	Farmers, the Boone River Watershed Partnership, The Nature Conservancy, Iowa Rivers Revival, Iowa Soybean Association and Wright Soil and Water Conservation District are restoring 1-5 oxbows to create Topeka shiner spawning habitat in Boone River watershed.
FY22 Downstream Habitat Improvement in Seven Mile Creek and Rogers Creek, MN	2021	Yes	Yes	Yes	MN	No	Fishers and Farmers Partnership	Great River Greening	Completed	3	$20,000	$20,000	Host 3 field days and community gatherings over 18 months. Educate 100 farmers and community members through events and one-on-one discussions. Establish commitments for perennial or cover crops on 2,000 acres across two watersheds and drinking water supply management area. Create a local community group of farmers committed to working together on production and supply chain development of new cropping rotations. Collect 18 months of water quality data (Nitrate, Total Phosphorus, and Total Suspended Solids) in Seven Mile Creek, Rogers Creek, and on a field with new practices that will be useful for demonstrating the effects of conservation practices.
FY22 Advancing Cover Crop Adoption in the Le Sueur River Watershed, MN	2021	Yes	Yes	Yes	MN	No	Fishers and Farmers Partnership	Minnesota State University Mankato, Water Resources Center	Active	4	$43,182	$43,182	The goal of this project is to increase adoption of soil health practices, particularly conservation tillage and cover crops, to support the transition toward more continuous living cover across the Le Sueur River Watershed. The Le Sueur River Watershed Protection and Restoration Strategy and Minnesota Nutrient Reduction Strategy highlight beneficial impacts of increased conservation tillage and cover crop adoption to reduce annual peak flows and sediment and nutrient pollution to improve poor aquatic habitat.
FY22 Regenerative Farming Education and Implementation, MN	2021	Yes	Yes	Yes	MN	No	Fishers and Farmers Partnership	Izaak Walton League	Active	5	$25,000	$25,000	Farmers, Izaak Walton League, agencies and ag service providers are advancing farming systems to restore soil health in Minnesota, including education, events, forums, interviews, workshops, tours and demonstration plots.
FY 22 LSP Building Soil Health to Improve Water Quality, MN	2021	Yes	Yes	Yes	MN	No	Fishers and Farmers Partnership	Land Stewardship Project	Completed	6	$30,000	$30,000	The goal of LSP's Bridge to Soil Health program is to build back the health of agricultural soils, improve water quality of streams and underground aquifers, sequester carbon, increase wildlife habitat and to create hope and prosperity for family farms and rural communities. To prompt a major transformation of Midwestern agriculture, scaling-up the number of local crop & livestock farmers building soil and talking publicly about the resulting financial and environmental benefits is crucial.

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Coordination of the Great Lakes Basin FHP	2021	Yes	Yes	Yes	MI	No	Great Lakes Basin Fish Habitat Partnership	US Fish and Wildlife Service	Completed	1	$85,000	$85,000	The focus of the GLBFHP over the next three years remains to protect, restore, and enhance fish habitat in the Great Lakes Basin by providing leadership, coordination, and collaboration with existing and future partners.
GPFHP Operation	2021	Yes	Yes	Yes	ND	No	Great Plains Fish Habitat Partnership	US Fish and Wildlife Service	Completed	1	$85,000	$85,000	This provides funding to facilitate coordination and operational functions of the Great Plains FHP.
Lodgepole Creek Riparian Pasture Project	2021	Yes	Yes	Yes	WY	No	Great Plains Fish Habitat Partnership	Laramie County Conservation District	Active	2	$26,500	$26,500	The project seeks to create a riparian pasture and improved grazing management along Lodgepole Creek. Poor riparian and aquatic habitat on the property can be attributed to year-long grazing. With proper grazing management, the area will rapidly heal leading to a diverse riparian area and more complex aquatic environment for native fish such as Plains Topminnow and Orangethroat Darter. The new grazing strategy will help increase the viability and long-term economics of the landowner's property.
North Laramie River Fish Passage	2021	Yes	Yes	Yes	WY	No	Great Plains Fish Habitat Partnership	Wyoming Game and Fish Department	Active	3	$26,500	$26,500	Objectives for this project would be to provide year-round passage for species, build passage structures that minimize large debris and sediment from affecting passage facilities, ensure reliable irrigation diversions with minimal maintenance needs; and reduce or eliminate entrainment in the North Laramie Company irrigation canal. The North Laramie drainage supports many native prairies stream fish species including several Species of Greatest Conservation Need (SGCN).
Oasis Ditch Fish Passage	2021	Yes	Yes	Yes	WY	No	Great Plains Fish Habitat Partnership	Wyoming Game and Fish Department	Active	4	$26,500	$26,500	Objectives of this project include providing upstream passage and reconnect 20 miles of upstream habitat as well as improve stream function; sediment transport and wetland habitat enhancement and migratory bird habitat. Oasis Ditch provides irrigation water for 9,180 acres and needs significant repairs and improvements to reduce maintenance, improve operations, and provide long-term stability for the LVMID. This work also provides an opportunity to improve fish passage as it is currently a full barrier to upstream fish movements.
Scaling Up Estuarine Habitat Restoration at Kīholo Fishpond	2021	Yes	Yes	Yes	HI	No	Hawaii Fish Habitat Partnership	The Nature Conservancy in Hawaii	Active	1	$125,000	$125,000	Kīholo represents an estuarine ecosystem that provides important habitat for native species, protects the adjacent coastline, and supports recreational and subsistence fishing for the community. This project will remove one acre of invasive vegetation from a densely overgrown area surrounding the pond, replant one acre with riparian native plants, remove sediment from 0.5 acres of the fishpond to improve water quality and benthic condition, promote community engagement and learning networks to reach at least 300 volunteers, and conduct monitoring to track impact of the restoration on fishpond and marine habitat.

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Maunalua Bay: Large-scale Nearshore Marine Habitat Restoration	2021	Yes	Yes	Yes	HI	No	Hawaii Fish Habitat Partnership	Malama Maunalua	Active	2	$70,900	$70,900	An on-going restoration project to maintain and monitor 27+ acres of the reef flat at Pāiko Beach has now expanded to 2 acres at Kuliʻouʻou Beach Park. Through a successful service-learning model, the Huki Project (which means “to pull” in Hawaiian) brings on average, 2,500 volunteers annually to the Bay to remove invasive algae at strategically selected areas. This project will support continued algae removal, seagrass restoration and coral transplantation across a two-acre area of reef flat.
Alakoko Auwai Restoration	2021	Yes	Yes	Yes	HI	No	Hawaii Fish Habitat Partnership	Malama Huleia	Active	3	$128,000	$128,000	The goal of the proposed Alakoko Auwai Restoration Project is to improve the quality of water and fish habitat at the Alakoko estuary/fishpond complex and adjacent Huleia River, Kauai.
Kenai Peninsula Fish Habitat Partnership Coordination and Operational Support	2021	Yes	Yes	Yes	AK	No	Kenai Peninsula Fish Habitat Partnership	Kenai Watershed Forum	Completed	1	$85,000	$85,000	The Kenai Watershed Forum (KWF) is seeking funding to continue providing coordination and operational services to the Kenai Peninsula Fish Habitat Partnership (KPFHP, or the Partnership) and its steering committee. Since its inception in 2010, KWF has provided coordination and fiscal sponsorship to the Partnership, which currently consists of 36 active and diverse partners. Funding for this project will support the expansion of the Partnership and the implementation of priority projects aimed at enhancing fish habitat on the Kenai Peninsula. Our overarching goal is to maintain the well-being of fish, people, habitat, and economies. KPFHP will continue to focus on all fish species and habitat types within the Partnership area, spanning freshwater and marine environments. This will be accomplished by continuing to foster effective collaborations among stakeholders by facilitating regular meetings of the KPFHP steering committee, planning a biennial fish habitat science symposium, and other outreach opportunities. The KPFHP Coordinator also will solicit high quality project proposals to address the top threats to fish habitat through an annual request for proposals.
Elodea Surveys in Kenai Peninsula Lands of Western Cook Inlet	2021	Yes	Yes	Yes	AK	Yes	Kenai Peninsula Fish Habitat Partnership	Tyonek Tribal Conservation District	Active	2	$40,107	$40,107	We propose to prioritize and survey waterbodies on the Kenai Peninsula lands of Western Cook Inlet (WCI) for the presence of the aquatic invasive plant Elodea canadensis over 24 months. To support fish and fish habitat, we propose to implement early detection, rapid response methods for Elodea, a plant that negatively impacts water quality and salmon habitat. Surveying at-risk waterbodies prevents further Elodea spread and habitat degradation.

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Stream Watch: Volunteer-Driven Fish Habitat Stewardship on the Kenai Peninsula	2021	Yes	Yes	Yes	AK	No	Kenai Peninsula Fish Habitat Partnership	Kenai Watershed Forum	Active	3	$52,005	$52,005	The Stream Watch is a volunteer driven program that was established in 1994 to mitigate the negative impacts associated with high river usage from anglers in the region. Trained volunteers visit high use sportfishing areas to educate the public about fish habitat conservation, ethical angling, and more. In addition, volunteers remove massive quantities of litter from riparian areas, participate in streambank rehabilitation projects, and participate in organized educational events such as the Kenai River Festival.
Maintaining Capacity for Aquatic Early Detection and Rapid Response within the KPFHP	2021	Yes	Yes	Yes	AK	No	Kenai Peninsula Fish Habitat Partnership	Kenai Watershed Forum	Active	4	$46,803	$46,803	This project will allow for the continued coordination of KP-CISMA and KP-FHP partners as it relates to aquatic invasive species (AIS) management. This will ensure continued management of prioritizations, permitting, and planning to initiate education, early detection, and rapid response efforts within the KP-FHP. KWF will collaborate with KP-CISMA and KPFHP partners to conduct AIS surveys (including but not limited to Elodea, Northern pike, and freshwater mussels) and augment AIS outreach.
Mat-Su Salmon Partnership Outreach and Coordination	2021	Yes	Yes	Yes	AK	No	Matanuska Susitna Basin Salmon Habitat Partnership	Trout Unlimited	Completed	1	$85,000	$85,000	This funding helps ensure that the Mat-Su Basin Salmon Habitat Partnership continues to provide leadership in addressing the potential impacts to salmon and their habitat from increasing human use and development in the Mat-Su Basin. This project supports 1) the Partnership Coordinator position; 2) trainings and workshops for partners, including the Mat-Su Salmon Symposium; and 3) advancing outreach activities for the Partnership to benefit salmon habitat, such as hosting 2023 site tour for community leaders and 2023 community riparian planting day.
2022 Mat-Su Water Reservation Program Flow Data Acquisition to Protect Salmon Habitat	2021	Yes	Yes	Yes	AK	No	Matanuska Susitna Basin Salmon Habitat Partnership	US Fish and Wildlife Service	Completed	2	$35,000	$35,000	The Mat-Su Water Reservation Program quantifies stream flow in priority waterbodies and protects salmon habitat with instream flow water rights. The program currently supports U.S. Geological Survey (USGS) stream gages on Kroto Creek, and Bodenburg Creek. This proposal requests Mat-Su Salmon Partnership funding for the 5th and final year of gaging on Bodenburg Creek. Gage data will help advance the understanding of water resources in the Mat-Su Basin and eventually support applications for instream flow water rights on approximately 6 miles of stream. This project addresses CS9 Loss or Alteration of Water Flow or Volume and CS1 Overarching Applied Science Strategies. Bodenburg Creek was selected for gaging because of its high value salmon habitat and it is well suited to serve as an index site for other similar small streams located around the Kink Arm of Cook Inlet, like Spring Creek.

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Removing Salmon Barriers Through the Mat-Su Fish Passage Program	2021	Yes	Yes	Yes	AK	No	Matanuska Susitna Basin Salmon Habitat Partnership	Matanuska Susitna Borough	Active	3	$100,000	$100,000	This project would improve fish passage and movement into critical upstream habitat on the Crocker Creek system at Settlers Bay Drive (ADFG#20501156). This crossing at Settlers Bay Drive has been identified as a 'red' culvert by Alaska Department of Fish and Game (ADFG) Fish Passage Improvement Program. This project will restore access to 0.3 miles of upstream habitat to the next crossing and a total of 2.1 miles of potential upstream rearing and spawning habitat for Coho and Sockeye Salmon This is a part of a larger effort to improve fish passage throughout the entirety of the Matanuska-Susitna (Mat-Su) Borough.
Anadromous Waters and Elodea Surveys in the Remote Western Matanuska-Susitna Borough	2021	Yes	Yes	Yes	AK	Yes	Matanuska Susitna Basin Salmon Habitat Partnership	Tyonek Tribal Conservation District	Completed	4	$56,852	$56,852	Western Susitna River in the Matanuska Susitna Borough is remote, with current access limited to air, water, and snow. Though remote, salmon habitat degradation and impacts to salmon populations can occur via biological invasions (i.e., the aquatic invasive plant Elodea canadensis; Elodea) and increased access from proposed developments. This project will monitor at risk waterbodies for early detection of Elodea and ensure waterways supporting salmon are included in Alaska's Anadromous Waters Catalog (hereafter, AWC). This fills two important data gaps identified in the Mat-Su Basin Salmon Habitat Partnership's Strategic Action Plan.
Hewitt Lake Juvenile Sockeye Population Assessment	2021	Yes	Yes	Yes	AK	No	Matanuska Susitna Basin Salmon Habitat Partnership	Alaska Department of Fish and Game	Completed	5	$19,923	$19,923	This project will estimate the abundance of juvenile sockeye salmon rearing in Hewitt Lake in the fall of the year. The abundance of juvenile sockeye salmon will be accomplished by use of underwater hydroacoustic population survey and midwater trawl fishing techniques.
Anadromous Waters Prioritization for the Matanuska-Susitna Basin	2021	Yes	Yes	Yes	AK	No	Matanuska Susitna Basin Salmon Habitat Partnership	University of Alaska Anchorage	Active	6	$56,530	$56,530	The Matanuska-Susitna (Mat-Su) Fish Habitat Partnership has identified the prioritization of streams for nomination to the Anadromous Waters Catalog (AWC) an important data gap for the protection and conservation of fish habitat. We propose to build an ensemble model of juvenile salmon habitat for the Mat-Su basin that can be used to prioritize stream surveys for making nominations to the AWC.

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Midwest Glacial Lakes Partnership Operations (FY 22)	2021	Yes	Yes	Yes	MI	No	Midwest Glacial Lakes Partnership	Michigan Department of Natural Resources	Completed	1	$76,436	$76,436	The Midwest Glacial Lakes Partnership works to protect, rehabilitate, and enhance sustainable fish habitats in glacial lakes of the Midwest for the use and enjoyment of current and future generations. Partnership staffing is limited to the coordinator, and funding for that position is required to coordinate the partnership's three committees, implement tasks delegated by the committees to the coordinate, and maintain partnership operations in support of the partnership's mission, goals, and objectives. This project will partially fund the coordinator and provide a small operations budget for partnership activities. Additional objectives will include implementation of Midwest Glacial Lakes Partnership objectives on inland lake management, long term environmental change, and habitat conservation grant objectives within Michigan.
Assessing relationships between fisheries and aquatic vegetation to improve lake habitat management	2021	Yes	Yes	Yes	WI	No	Midwest Glacial Lakes Partnership	University of Wisconsin Madison	Active	2	$60,155	$60,155	Interactions between aquatic vegetation and fish are poorly understood, leading to substantial uncertainty in how to manage aquatic plants to support fisheries goals. By combining extensive datasets for macrophyte and fish communities across thousands of lakes in the MGLP, we aim to augment the lake management toolbox by quantitatively linking aquatic vegetation and its management to recreational fisheries. We will address two specific questions that are high priorities for agencies: 1. What is the importance of aquatic vegetation for walleye recruitment, either as spawning or juvenile habitats? and 2. How can aquatic vegetation management be used to manage and support popular recreational fisheries, including panfish, bass, and walleye? In answering these questions, we will assess relationships between plant community structure and fish abundance, size structure, growth, and recruitment using data analysis and modeling, leading to practicable guidance for how plant and fish communities can be holistically managed. This information would be delivered to biologists, lake associations, and other stakeholders using workshops, seminars, factsheets, and data visualization tools, allowing managers to contextualize lake performance, identify lakes where habitat management could yield fisheries benefits, and learn about the benefits aquatic vegetation can provide toward meeting lake management goals.
Shoreline Habitat Restoration Projects	2021	Yes	Yes	Yes	MN	No	Midwest Glacial Lakes Partnership	Stearns County Soil & Water	Active	3	$75,000	$75,000	Landowners for each project proposed are committed to completing a shoreline restoration on their shoreline in Stearns County, MI. Each of these projects will use natural techniques to expand and protect fish and wildlife habitat. With the restoration or protection of natural shorelines many native fish species will enjoy additional and improved habitat. Once complete, landowners routinely welcome other property owners to view their properties to understand the benefits and visually see what changes have been made.

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Identifying and Prioritizing lakes of biological significance	2021	Yes	Yes	Yes	MN	No	Midwest Glacial Lakes Partnership	Northern Waters Land Trust	Completed	4	$37,646	$37,646	Currently, the Northern Waters Land Trust GIS mapping tool identifies properties within cold water refuge lake watersheds and scores their need for protection. With additional resources from MGLP, our goal to expand this scoring framework to include Lakes of Biological Significance and prioritize conservation of specific parcels within these sensitive watersheds. A Lake of Biological Significance (LBS), is a lake with unique plant or animal presence, such as: aquatic plants, fish, birds, and amphibians. Currently, our service area includes 391 LBS and there is no prioritization method for parcels on or within the watersheds of these LBS. NWLT's proposed methodology is essential for conservation efforts directed at mitigating the impacts of shoreline development, long-term environmental change, deforestation, and more. The results of this MGLP grant will be essential in helping NWLT continue its permanent land conservation efforts in this developing region.
Lake Goguac Stormwater Diversion	2021	Yes	Yes	Yes	MI	No	Midwest Glacial Lakes Partnership	City of Battle Creek Michigan	Active	5	$75,000	$75,000	The City of Battle Creek (City) is seeking funding to protect and improve the water quality in Goguac Lake, a 352-acre lake located within the City. The project would improve the water quality and fisheries habitat in Goguac Lake by eliminating stormwater additions from 34.6 acres of urban commercial and residential areas within the city, resulting in a pollutant load reduction of 54.5 pounds of phosphorus and 14,678 pounds (7.3 tons) of sediment, annually. The stormwater would be piped via the City's storm sewer network to an existing stormwater detention pond with excess capacity to infiltrate the additional stormwater generated from the 34.6 acres. The Michigan Department of Natural Resources (MDNR) recognizes the value of Goguac Lake for its diverse fishery, recreational access to a large population in an urban center and its potential for a successful Walleye fishery.
NFHP Board and Science and Data Committee Operational Support FY2022	2021	Yes	Yes	Yes	DC	No	National Fish Habitat Partnership Board	Association of Fish and Wildlife Agencies	Completed	1	$333,532	$333,532	To meet the requirements and obligations of the ACE Act, the Board requires base funding for: 1) basic Board operations to include both Board travel and meeting costs and Science and Data Committee (SDC) Co-chair travel and SDC meeting costs; 2) NFHP communications and overall program coordination and support; and 3) maintenance of existing data systems for both NFHP projects and assessment data.

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ORBFHP operational Support	2021	Yes	Yes	Yes	Ohio	No	Ohio River Basin Fish Habitat Partnership	U.S. Fish and Wildlife Service	Completed	1	$85,000	$85,000	The ORBFHP seeks to secure these operational funds to provide needed guidance to the ORBFHP steering committee, conservation partners and to individual projects and those directly involved in executing funded habitat projects and provide the technical assistance and project management. These funds will provide the means necessary to produce desired outcomes and achieve the goals and objectives of the ORBFHP.
Callen Run Dam Removal Design and Engineering	2021	Yes	Yes	Yes	PA	No	Ohio River Basin Fish Habitat Partnership	American Rivers	Active	2	$60,000	$60,000	This project involves removing two dams to increase access to twelve miles of cold water habitat. This will benefit mussel fish-host species and native mussels.
Eel River Recolonization	2021	Yes	Yes	Yes	IN	No	Ohio River Basin Fish Habitat Partnership	Ecosystems Connections Institute	Completed	3	$54,722	$54,722	This project involves electrofishing in six mainstream and twenty tributary sample sites along with using a PIT tag antenna system and trap netting to document native fish recolonization of the Eel River Basin. This project also involved PIT tagging new fish in the river basin.
Gupta Dam Removal	2021	Yes	Yes	Yes	OH	No	Ohio River Basin Fish Habitat Partnership	Ecosystems Connections Institute	Completed	4	$48,649	$48,649	Removal of Gupta Dam on Indian Creek in Ohio. This is the last of four completed dam removals leading to a barrier free watershed.
Whitewater River Fish Habitat Restoration	2021	Yes	Yes	Yes	OH	No	Ohio River Basin Fish Habitat Partnership	Ohio River Foundation	Completed	5	$10,000	$10,000	This project will re-establish needed vegetation and erosion control the Whitewater River in Ohio, a priority area for the ORBFHP.
PLCI Coordination & Operational Support	2021	Yes	Yes	Yes	OR	No	Pacific Lamprey Conservation Initiative	Pacific States Marine Fisheries Commission	Completed	1	$85,000	$85,000	The Pacific Lamprey Conservation Initiative (PLCI) promotes implementation of conservation measures for Pacific Lamprey across their range. The PLCI Conservation Agreement represents a cooperative commitment among signatories and supporters to leverage available resources (both human and capital) to reduce threats to Pacific Lamprey in the face of long-term environmental change and to improve their habitats so that the species can express their full life cycle, including use of adult migration corridors.
Lamprey Distribution and Abundance in Urban Streams, Olympic Peninsula	2021	Yes	Yes	Yes	WA	Yes	Pacific Lamprey Conservation Initiative	Lower Elwha Klallam Tribe	Completed	1	$81,057	$81,406	We will document the species and population of lamprey in Tumwater, Valley, Peabody, Ennis, and Morse creeks on the Olympic Peninsula in Washington State.

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Finn Rock Reach Floodplain Habitat Restoration	2021	Yes	Yes	Yes	OR	No	Pacific Lamprey Conservation Initiative	McKenzie River Trust	Active	2	$187,490	$55,000	The Finn Rock Reach Floodplain Restoration Project will provide floodplain reconnection and habitat restoration to 85 acres on a side channel of the McKenzie River, near the community of Blue River, Lane County. Decreased habitat complexity caused by the depletion of large woody debris and lack of lateral floodplain connectivity will be addressed by this project. Large gravel pits, and their attendant access road, channelized the side channel and inhibited connectivity with the mainstem McKenzie River.
PMEP Operational Support (2022)	2021	Yes	Yes	Yes	Multiple states	No	Pacific Marine and Estuarine Fish Habitat Partnership	Pacific States Marine Fisheries Commission	Completed	1	$85,000	$85,000	PMEP Operational Support will result in increased collaboration and coordination amongst restoration practitioners, researchers, and resource managers throughout the U.S. West Coast.
Sequalitchew Creek Estuary Restoration Design Alternatives	2021	Yes	Yes	Yes	WA	No	Pacific Marine and Estuarine Fish Habitat Partnership	South Puget Sound Salmon Enhancement Group	Completed	2	$41,795	$41,795	This work will address the restoration of full fish passage through the Burlington Northern and Santa Fe Railway, tidal hydrology and sediment inputs to the shoreline, floodplain connection and off-channel habitat, juvenile rearing, osmoregulation, and foraging habitats, and submerged aquatic vegetation and habitats to support forage fish and natural tidal marsh habitats. Additionally, biological and hydrological data will be collected for the Sequalitchew Creek Basin, improving established baseline conditions to support successful restoration and monitoring.
Aiston Preserve Nearshore Restoration	2021	Yes	Yes	Yes	WA	No	Pacific Marine and Estuarine Fish Habitat Partnership	Lummi Island Heritage Trust	Completed	4	$50,000	$50,000	Project actions will enhance and restore nearshore processes, restore armored shoreline, create and enhance pocket beaches, manage stormwater runoff, revegetate the shoreline, and allow kelp and eelgrass beds to expand. The project will create and improve habitats for forage fish spawning and migrating juvenile salmonids. Revegetation of the adjacent upland marine riparian area will reconnect the adjacent upland and nearshore habitats and will benefit a variety of PMEP focal species and USFWS listed species. Pre and post construction monitoring will be conducted in partnership with the local MRC.
Zangle Cove Restoration	2021	Yes	Yes	Yes	WA	No	Pacific Marine and Estuarine Fish Habitat Partnership	Thurston Conservation District	Completed	6	$40,000	$40,000	This project will remove residential marine waterfront armor on a small embayment located on a private residential waterfront property situated along Dana Passage in South Puget Sound.

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Reservoir Fisheries Habitat Partnership Operations (FY 22)	2021	Yes	Yes	Yes	KS	No	Reservoir Fisheries Habitat Partnership	Reservoir Fisheries Habitat Partnership	Completed	1	$85,000	$85,000	The Reservoir Fisheries Habitat Partnership was established in 2010. Our goal is to promote the protection, restoration, and enhancement of habitat for fish and other aquatic species in reservoir systems. We are committed to integrating watershed conservation, in-reservoir management, and the management of downstream flows to attain more holistic and coherent strategies for addressing aquatic habitat impairment issues in reservoir systems.'
Water Quality Structures at Dam Site WP-1 (Nebraska)	2021	Yes	Yes	Yes	NE	No	Reservoir Fisheries Habitat Partnership	Papio-Missouri River Natural Resources District	Active	2	$75,000	$75,000	This project will protect water quality in a newly built reservoir, WP-1, using best management practices that reduce sediment input and excessive nutrients via construction of a sediment retention structure and shoreline protection measures. A 2.5 acre sediment basin will be constructed by creating a 500 ft. long berm with a box drop culvert by November of 2023. Within the reservoir, 2,000 ft. of shoreline protection (rip-rap) and 8 breakwater structures (modified for angler access) will be constructed by November 2023.
Raystown Lake Habitat Barge Project	2021	Yes	Yes	Yes	PA	No	Reservoir Fisheries Habitat Partnership	Friends of Raystown	Completed	3	$75,000	$75,000	Raystown Lake is an 8,300 acre lake that is owned and operated by the United State Army Corps of Engineers(USACE). It's one of Pennsylvania's (PA) largest lakes and is heavily used by recreational boaters and fisherman. This lake is a top fishing destination in the state and supports over 3 fulltime fishing guides. The lake is known for its impressive bass, striper, and lake trout fishery. The park receives over 1.6 million visitors yearly. In 2020, Seven points campground became the highest revenue generating campground in USACE. The lake habitat project will improve the aquatic habitat at the lake in several popular areas. The projects major partners are the Friends of Raystown(FRL), Pennsylvania Fish and Boat Commission(PFBC), USACE, Juniata College, Pennsylvania Striper Association, and the National Fish Habitat Partnership. PFBC staff will use both a specialized rock barge and land based heavy equipment to improve eroded shorelines. They will also create rock and rootwad humps in areas that lack any significant structure. Through this projects these "aquatic deserts" will be transform into areas that support increased fish populations with greater species richness.
Cochiti Lake Habitat Restoration	2021	Yes	Yes	Yes	NM	Yes	Reservoir Fisheries Habitat Partnership	Sun Country Outdoors	Completed	4	$50,000	$50,000	This project addresses impairments from: sedimentation, hazardous algae blooms, aquatic invasive species and initial vegetation removal and earth scouring during dam construction. This grant funds propagation of native aquatic and shoreline vegetation and fish habitat placement with an emphasis on spawning enhancement.

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Somerset Lake Habitat Improvement	2021	Yes	Yes	Yes	PA	No	Reservoir Fisheries Habitat Partnership	Somerset Lake Action Committee	Completed	5	$40,000	$40,000	Somerset Lake is a 253-acre impoundment owned by the Commonwealth of Pennsylvania. This project is focusing on enhancing and rehabilitating the highly impaired area within and around the lake. The lake was drained for dam repair making it possible to heavy equipment to work within the basin. The project will introduce fish structures to rehabilitate the littoral zone, create peninsulas and islands to enhance deep water areas, and utilize new habitat to promote trophic upsurge when the lake is refilled.
SEAKFHP FY22 Coordination and Operational Support	2021	Yes	Yes	Yes	AK	No	Southeast Alaska Fish Habitat Partnership	Trout Unlimited	Completed	1	$85,000	$85,000	This project funds the operations and coordination services for the Southeast Alaska Fish Habitat Partnership (SEAKFHP). SEAKFHP provides a variety of coordination and facilitation services to partner organizations as well as other natural resource managers and interested stakeholders throughout Southeast Alaska. These services provide for the maintenance of the partnership's governance and committee structures, keeps partners engaged, facilitates science, educations and outreach actions, allows for participation with NFHP Board requests and associated committees, and executes the solicitation of partner project proposals eligible for NFHP related funding opportunities. Partnership coordination is key in providing services to partner members and with continued support through FY22 NFHP operational funding these services will remain stable.
Collaborative Steam Restoration in Hoonah, Alaska (Westport and Humpback Creek)	2021	Yes	Yes	Yes	AK	Yes	Southeast Alaska Fish Habitat Partnership	Hoonah Native Forest Partnership	Completed	2	$69,721	$69,721	The Hoonah Indian Association is a member of the Hoonah Native Forest Partnership. Through the partnership we have trained a local workforce to implement stream restoration – to date our local crews have completed restoration on three streams with a 4th planned in 2021 in the Spasski Watershed. Our proposal would restore ~180 meters of stream in the Humpback Creek watershed that is not functioning properly and has a downward trend in function. Past timber harvest along the riparian area has reduced the number of trees available for instream wood that is important to the function of the stream, the condition for fish habitats and the resilience to changing long-term environmental conditions. The restoration will enhance channel complexity increasing spawning and rearing habitat for coho, chum, and pink salmon. The project will also design a new fish passage structure at the site. The current structure is failing and may be detrimental to fish habitat and passage when it fails.

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Engaging Tribal and Community Partners in Salmon Habitat Restoration in the Margaret and Ward Creek Watersheds, Tongass National Forest	2021	Yes	Yes	Yes	AK	Yes	Southeast Alaska Fish Habitat Partnership	Ketchikan Indian Community	Completed	3	$69,482	$69,482	The Ketchikan Indian Community (KIC), Southeast Alaska Watershed Coalition (SAWC), and US Forest Service (FS) are partnering to restore habitat for four species of salmon, trout, and char in Margaret Creek on the Tongass National Forest, Southeast Alaska. This project will restore fish habitat by constructing log jams in the channel and thin floodplain forest to accelerate recovery of old-growth conditions, while at the same time building an important partnership between agency and community interests that will foster watershed stewardship.
SARP Operations FY2022	2021	Yes	Yes	Yes	NC	No	Southeast Aquatic Resources Partnership	Southeastern Association of Fish and Wildlife Agencies	Completed	1	$85,000	$85,000	This project will help SARP implement the National Fish Habitat Plan in the Southeastern United States. It will support SARP operations such as financial and programmatic oversight, outreach, and leverage other funds for conservation in the Southeast.
Agricultural BMPs in the Upper Chattahoochee Watershed to Improve Water Quality	2021	Yes	Yes	Yes	GA	No	Southeast Aquatic Resources Partnership	University of Georgia Coop Extension Service	Active	2	$100,000	$119,972	Through partnerships and collaboration, this project aims to build off an established interagency workgroup facilitating riparian and streambank enhancement through the implementation of best management practices with farmers for native black bass protections and water quality improvements for the Lake Lanier watershed in the upper Chattahoochee watershed.
Southwest Alaska Salmon Habitat Partnership Coordination (2022)	2021	Yes	Yes	Yes	AK	No	Southwest Alaska Salmon Habitat Partnership	Bristol Bay Heritage Land Trust	Completed	1	$85,000	$85,000	To provide the Partnership the ability to coordinate the implementation of its strategic conservation plan and provide an entity that can arrange for meetings of the Partnership Steering Committee and the Science and Technical Committee, take minutes, carry out directives of the committees, plan science symposia and workshops, interact on behalf of the partnership with the national board and staff to the national board, and most importantly, coordinate and seek matching and other funding opportunities from foundations, government agencies, tribal organizations, etc. to assist partners pursuing projects that help implement the strategic objectives of the partnership conservation plan.
Bristol Bay Fly Fishing & Guide Academy	2021	Yes	Yes	Yes	AK	No	Southwest Alaska Salmon Habitat Partnership	Bristol Bay Heritage Land Trust	Completed	2	$25,000	$25,000	The Bristol Bay Heritage Land Trust (BBHLT) provided financial support for the Bristol Bay River, Fly Fishing & Guide Academy (Academy) a one week riverside training program held each year at a fishing lodge in Bristol Bay. The Academy is one of the most successful salmon and environmental education programs in Alaska. BBHLT with partners Trout Unlimited and Bristol Bay Native Corporation recruit youth from the Bristol Bay region, secure a fishing lodge location, recruit volunteer instructors, and make travel arrangements for all participants and instructors. The Academy is free to all selected participants

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Watershed Conservation Planning for Native Villages of Bristol Bay	2021	Yes	Yes	Yes	AK	No	Southwest Alaska Salmon Habitat Partnership	Bristol Bay Heritage Land Trust	Completed	3	$25,000	$25,000	The project will require assembling data from a variety of sources and engaging with leaders and knowledgeable persons provided by local tribal governments and village corporations to review the assessment process and determine data gaps especially with respect to traditional ecological knowledge. The deliverables for this project will be a series of digital and printed poster maps as well as applicable GIS datasets for all lands within the subregion occupied by Native village. These maps will contain habitat and resource features, the location of traditional subsistence and cultural sites and place names. In addition, for private lands within the subregion, the maps will designate the conservation value of lands on a sectional basis
Modeling Early Life Stage Salmonids Under Future Environmental Scenarios	2021	Yes	Yes	Yes	AK	No	Southwest Alaska Salmon Habitat Partnership	Abt Associates, University of Alaska Fairbanks	Completed	4	$204,596	$69,972	We will generate a salmonid developmental model for egg incubation temperatures and metabolic rates over a range of water temperatures. Building on existing models used by hatcheries, we will generate a model applicable to temperature ranges that developing eggs experience in the field in southwest Alaska. We will also develop and deploy an in-situ salmonid egg development monitoring system. The model and in-situ monitoring system will be important tools to monitor and predict future long-term environmental changes.
Western Native Trout Initiative FY22 Operational Support	2021	Yes	Yes	Yes	ID	No	Western Native Trout Initiative	Western Native Trout Initiative	Completed	1	$85,000	$85,000	The Western Native Trout Initiative (WNTI) serves as a key catalyst building and maintaining effective conservation partnerships among local, state, and federal partners to catalyze and accelerate conservation of 21 native trout and char species across 12 western states. Project activities include coordination, facilitation, project development/implementation/administration; grant administration; outreach and education activities and products; social media strategies; professional and public events; and WNTI's 12 state Western Native Trout Challenge.
Poudre Headwaters Greenback Restoration: Cache la Poudre River, Corral Creek	2021	Yes	Yes	Yes	CO	No	Western Native Trout Initiative	US Forest Service Arapahoe National Forest	Active	2	$85,000	$85,000	Poudre Headwaters Restoration Project is a large-scale partnership effort to establish a metapopulation of Greenback Cutthroat Trout in the headwaters of Colorado's only designated Wild & Scenic River, the Cache la Poudre River. Securing an extensive stream network within the broadly protected areas of Rocky Mountain National Park and the Roosevelt National Forest, the project focuses on securing a resilient stronghold as a centerpiece of Greenback Cutthroat Trout recovery. Native cutthroat trout restoration will be phased in over approximately 15-20 years across connected habitat patches that will ultimately provide habitat across 37 stream miles and 106 acres of lakes/reservoirs.

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Blackfoot River Yellowstone Cutthroat Trout Habitat Improvement	2021	Yes	Yes	Yes	ID	No	Western Native Trout Initiative	Idaho Department of Fish and Game	Completed	3	$85,000	$85,000	The Blackfoot River one of the most productive watersheds for Yellowstone Cutthroat Trout (YCT) historically supported a remarkable recreational fishery throughout their distribution. Today, the cutthroat population remains depressed and faces many challenges. The Blackfoot River has been over widened, downcut, and lacks complexity in the form of multiple macrohabitat types and riparian plant assemblage structure. The degraded instream and riparian habitat have increased the impact of avian predation, which has become an increasingly important factor limiting YCT recovery in the system. The project is part of a 3-year effort to enhance YCT habitat on the Blackfoot River where it flows through Idaho Department of Fish and Game's (IDFG) Blackfoot River Wildlife Management Area (BRWMA).
Rainey Creek Restoration, Bridge-to-Bridge, Phase 2	2021	Yes	Yes	Yes	ID	No	Western Native Trout Initiative	Henrys Fork Foundation	Completed	4	$40,000	$40,000	Since the 1970's, native populations of Yellowstone Cutthroat Trout (YCT) have declined due to habitat degradation, and competition and introgression from non-native species. The South Fork Snake River (SFSR) from Palisades Dam to the confluence of the Henry's Fork River is home to the largest population of native YCT in the state of Idaho. Prior management efforts, including limiting Rainbow Trout invasion and screening of irrigation diversions, have not yielded increases in YCT in Rainey Creek. Unlike the three smaller SFSR tributaries, the lower reach of Rainey Creek has been heavily impacted by historic farming and ranching practices, and poor habitat quality. The objective of this project is to restore natural stream function and improve habitat quality for a 0.34 mile reach of lower Rainey Creek to benefit native fluvial Yellowstone Cutthroat Trout spawning and rearing, as well as improve habitat for other native, cold-water aquatic species
Western Native Trout Initiative communications/outreach	2021	Yes	Yes	Yes	ID	No	Western Native Trout Initiative	Western Native Trout Initiative	Active	5	$25,000	$25,000	The Western Native Trout Initiative (WNTI) project maintains the organizational capacity of the Partnership through directed outreach to new partners and communities across 12 western states. Communications elements support WNTI operational activities and performance objectives by providing additional, increased capacity to strengthen internal and external communications capacity to share information, track and communicate accomplishments; collaborate with state, federal and local partners; and increase outreach to community-based organizations, anglers, and the public. Project will enhance and improve WNTI's ability to address emerging needs and opportunities and to leverage the full potential of the Partnership to accelerate conservation activities to benefit 21 focal species across 12 western states.
2022													

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ACFHP Operational Funding	2022	Yes	Yes	Yes	Multiple	No	Atlantic Coastal Fish Habitat Partnership	Atlantic States Marine Fisheries Commission	Completed	1	$85,000	$85,000	Operational support will go towards the ACFHP Coordinator salary, one Steering Committee meeting, and one Science and Data Committee meeting. This funding will allow for ACFHP to carry out its mission through on-the-ground restoration, science and data, and outreach and communication projects. In FY2022, ACFHP will develop its new Conservation Strategic Plan and Action Plan, which will guide the Partnership's priorities, objectives, strategies, and actions over the next few years. This work is leveraged through over $125,000 in in-kind support from Steering and Science and Data Committee members. Of this leverage, $40,524.18 can be counted as non-federal match (the rest of the leverage is either federal or already matched to other federal funding).
Dam Removal and Diadromous Restoration of the Norwalk River Watershed at Merwin Meadows Park	2022	Yes	Yes	Yes	CT	No	Atlantic Coastal Fish Habitat Partnership	Save the Sound	Completed	2	$50,000	$50,000	Save the Sound will remove the derelict Strong Pond Dam, the first barrier from Long Island Sound on the Norwalk River. The dam has been blocking fish migration for over a century. Removal will restore fluvial processes, open 6.5 river miles to diadromous species, and reconnect 1.13 acres of floodplain. Riverine bottom is a priority habitat in ACFHP's Mid-Atlantic subregion, and this project addresses Conservation Objectives 1, Strategy A.1.1; 2, Strategy A.2.2; and 3, Strategy A.3.3 of ACFHP's CSP. Located in a state and federal priority management area, the dam is a Tier 3 severe barrier in the Northeast Aquatic Connectivity Project. Removal will increase diadromous forage fish: food for gamefish, and will create cold-water habitat for local trout. Merwin Meadows Park is used by walkers, school groups, and anglers, and there has been one drowning at the dam. Its removal will improve public access and safety. Funding would go towards monitoring, public outreach, and river restoration.
Comprehensive South River and Herring Bay Tributary Scale Oyster Restoration Project	2022	Yes	Yes	Yes	MD	No	Atlantic Coastal Fish Habitat Partnership	Chesapeake Bay Foundation	Completed	3	$50,000	$50,000	The Chesapeake Bay Foundation will conduct benthic surveys and augment (~3.5 acres) existing oyster reefs within two protected oyster sanctuaries in the South River and Herring Bay Tributary. This will be based on a comprehensive oyster restoration plan that is being developed as part of the same project. Restoration will combat the threat of historic overfishing, pollution, and sedimentation, and add live native oysters to suitable reef substrate supporting the oysters themselves, adjacent aquaculture operations, and the broader estuarine food web. Restored oyster reefs in the area have significantly increased recreational fishing opportunities, and this site is in close proximity to potential fishers. Marine and estuarine shellfish beds are a priority habitat in ACFHP's Mid-Atlantic subregion, and will follow the multi-agency Native Oyster Restoration Master Plan. This work and addresses Conservation Objective 1, Strategy A.1.1 of ACFHP's CSP. Funding would go towards construction.

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Ames Pond Dam Removal & Fishway Construction, Monatiquot River, Braintree, MA NFHP	2022	Yes	Yes	Yes	MA	No	Atlantic Coastal Fish Habitat Partnership	Town of Braintree	Completed	4	$50,000	$100,000	The Town of Braintree will remove the Ames Pond Dam and install a pool-and-weir fishway around Rock Falls as part of the Monatiquot River Restoration project to restore 36 miles of unimpeded upstream access and reconnect 180 acres of spawning habitat for anadromous fishes. The project includes the removal of the Armstrong Dam: funded with FY21 NFHP funds. Sportfish such as striped bass and tuna feed on the diadromous forage fish that benefit from this project. The restoration will create public access to the Monatiquot River and the surrounding area, including a 1,700-foot public access trail with interpretive signage. Removal is consistent with multiple management plans including those developed by the ASMFC, NOAA, and State of Massachusetts. Riverine bottom is a priority habitat in ACFHP's North Atlantic subregion, and the dam removal addresses Conservation Objectives 2, Strategy A.2.2 and 3, Strategy A.3.3 of ACFHP's CSP. Funding would go towards removal of the Ames Pond Dam.
Paulina Dam (NJ 21-2) Removal on the Paulins Kill, NJ	2022	Yes	Yes	Yes	NJ	No	Atlantic Coastal Fish Habitat Partnership	The Nature Conservancy	Completed	5	$50,000	$50,000	The Nature Conservancy will remove the Paulina Dam on the Paulins Kill to restore and reconnect habitat for diadromous species. This will increase American shad in particular, the shad migration being a centerpiece of recreational fishing in the Delaware River. Collectively with the removal of the Columbia (2019) County Line (2021) Dams, both partially funded with NFHP funds, this removal will open and improve 45 miles of mainstem and tributaries. Riverine bottom is a priority habitat in ACFHP's Mid-Atlantic subregion, and this project will immediately reconnect 7.6 miles. It ranks in the top 5% of removals to benefit anadromous fish in the Northeast Aquatic Connectivity Project and addresses Conservation Objective 3, Strategy A.3.3 of ACFHP's CSP. Removal will increase access for fishing, boating, birding, and hunting. Funding would go towards construction (removal) and engineering services.

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Baskahegan Lake and Crooked Brook Flowage Fish Passage Project, Danforth, ME NFHP	2022	Yes	Yes	Yes	ME	No	Atlantic Coastal Fish Habitat Partnership	Atlantic Salmon Federation	Completed	6	$50,000	$50,000	Atlantic Salmon Federation will construct a pool-and-weir fishway at the Baskahegan Dam in Danforth, ME. The project will restore access to 8,960 acres and 137 miles of stream habitat for diadromous species. There are 2 dams on the mainstem Penobscot below the site, both of which have fish passage facilities. Over time, a self-sustaining run of 2 million+ alewives is anticipated that will have far-ranging, positive ecological, social, and economic benefits throughout the watershed to the Gulf of Maine. Residents are currently permitted to recreationally harvest alewives and in time, the Town of Danforth will apply for a commercial harvest. The fishway has been designed and sited to maximize public viewing opportunities, and a community park will be constructed adjacent to the fishway. Riverine bottom is a priority habitat in ACFHP's North Atlantic subregion, and this project addresses Conservation Objective 3, Strategy A.3.3 of ACFHP's CSP. NFHP funding would go towards construction.
Lower E.R. Collins Dam (NJ Dam #24-28) on the Pequest River in New Jersey	2022	Yes	Yes	No	NJ	No	Atlantic Coastal Fish Habitat Partnership	The Nature Conservancy	-	7	$50,000	-	The Nature Conservancy is seeking funding for the engineering, design, and permitting phase of the Lower and Upper E.R. Collins Dam removals in NJ. Located within 1,500 ft of the Pequest and Delaware Rivers confluence, these dams block fish migration, degrade instream habitat, and contribute to flooding of homes and businesses in Belvidere. This project will increase the number of shad in the Delaware River; the shad festival and fishing that revolve around the shad migration is a centerpiece of recreational fishing in the Delaware. Due to their close proximity, conducting this phase as one removal project provides multiple cost saves and minimizes disturbances to local residences and businesses. The removals will open 3 river miles and increase access for fishing, boating, birding, and hunting. Riverine bottom is a priority habitat in ACFHP's Mid-Atlantic subregion. This project addresses Conservation Objective 3, Strategy A.3.3 of ACFHP's CSP.
Upper E.R. Collins Dam (NJ Dam # 24-29) on the Pequest River in New Jersey	2022	Yes	Yes	No	NJ	No	Atlantic Coastal Fish Habitat Partnership	The Nature Conservancy	-	8	$50,000	-	See information above under 'Lower E.R. Collins Dam (NJ Dam #24-28) on the Pequest River in New Jersey.'

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Rapidan Mill Dam Removal Planning and Design Phase	2022	Yes	Yes	No	VA	No	Atlantic Coastal Fish Habitat Partnership	Center for Natural Capital, Rapidan Institute	-	9	$49,700	-	The Center for Natural Capital, Rapidan Institute will use the funding for the planning and assessment work necessary to remove the Rapidan Mill Dam on the Rapidan River in VA. Removal will make 540 miles of fish habitat available to diadromous fish. The dam is the last major obstruction on the river, and river herring and striped bass have been found just below the dam. A Blueways Plan for the Rapidan River currently underway by the Center for Natural Capital in collaboration with the affected counties would be dramatically improved if the dam is removed, allowing for fishing access to the river. The dam is a Tier 1 barrier in the Chesapeake Fish Passage Prioritization Tool, and riverine bottom is a priority habitat in ACFHP's Mid-Atlantic Subregion. This project addresses Conservation Objective 3, Strategy A.3.3 of ACFHP's CSP.
Tihonet Herring Ladder	2022	Yes	Yes	No	MA	No	Atlantic Coastal Fish Habitat Partnership	A.D. Makepeace Company	-	10	$49,961	-	The A.D. Makepeace Company will renovate the failing components of a 1970s herring run at Tihonet Pond to allow for diadromous passage from Buzzards Bay once again. This will open 1 river mile and provide access to 89 acres of spawning habitat. River herring are forage for recreationally and commercially important fish species, and Tihonet Pond is a popular freshwater fishing location and the site of an annual fishing derby. Seventh and eighth grade students at the Massachusetts Maritime Academy's summer camp will have site visits, and the fish ladder will be incorporated into their curriculum. Tree removals will address dam safety recommendations, and an outreach program will offer public access. The dam cannot be removed because it is still used by the cranberry industry. Riverine bottom is a priority habitat in ACFHP's North Atlantic subregion. This project will address Conservation Objective 3, Strategy A.3.3 of ACFHP's CSP. Funding will go towards fishway construction.

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CFPF Coordination & Operational Support	2022	Yes	Yes	Yes	CA	No	California Fish Passage Forum	Pacific States Marine Fisheries Commission	Completed	1	$85,000	$85,000	This project consists of coordination and operational activities to support the Forum's various activities and initiatives in support of its goal to restore connectivity of freshwater habitats throughout the historic range of anadromous fish in California. Activities include coordinating and participating in the Forum's Science & Data, Governance, and Policy & Permitting committees, as well as leading the Education & Outreach Committee. Planning and facilitating Forum Steering Committee meetings, and overseeing the creation and distribution of outreach materials relating to the importance of fish passage barrier removal including but not limiting the Forum's website, and barrier case studies. This project also manages and coordinates the Forum's annual funding solicitation process (development of the request for proposals (RFP), evaluation criteria, facilitating project selection, and collection of triannial progress reports from funded projects). This project supports all of the Forum's goals in its strategic framework, and targets all of the Forum's priority species and areas, as well as Species of Greatest Conservation Need.
Lower Stotenburg Creek Fish Passage Project	2022	Yes	Yes	Yes	CA	No	California Fish Passage Forum	Smith River Alliance	Completed	1	$49,952	$49,952	This project will remediate all barriers (four) to fish passage along 0.5 miles of Lower Stotenburg Creek. By improving the connection of Lower Stotenburg Creek to the mainstem Smith River through the removal or replacement of these four stream crossings, 0.7 stream miles and 9.17 acres of habitat will be restored increasing habitat complexity and improving a native riparian corridor. Most barriers in the Smith Coastal Plain are on private agricultural land, the removal of these four barriers as part of this project will serve as a site to educate other landowners and restoration practitioners for ways to restore stream habitat while also serving the needs of the landowner. This project supports goal 1 in the Forum's strategic framework, and targets Southern Oregon/Northern California Coho salmon (Oncorhynchus kisutch), Chinook salmon (Oncorhynchus tshawytscha), Northern California steelhead trout (Oncorhynchus mykiss irideus), Pacific Lamprey (Entosphenus tridentatus), Coastal cutthroat trout (Oncorhynchus clarkii clarkii) all FHP and Species of Greatest Conservation Need.

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Wildcat Creek Fish Passage & Community Engagement Project- Phase 2	2022	Yes	Yes	Yes	CA	No	California Fish Passage Forum	The Watershed Project	Completed	2	$45,000	$45,000	The primary goal of the overall project is to replace a failed fish passage facility resulting in the restoration of 1.125 of stream miles and 13 acres of habitat. This project will develop final design drawings for the fish passage facility replacement and obtain the permits necessary to reevaluate the Corps/NHC design to enable the project to move forward. The California Department of Water Resources supports the project and has committed the remaining funding needed for 100% designs. The project includes community outreach to raise awareness of creek ecology and fish passage restoration. Outreach deliverables will include K-12 educational programing, development of a children's book, community facing web page, and presentations at community meetings. This project supports goals 1, 2, 3, and 7 in the Forum's strategic framework, and targets Central California Coast steelhead trout (Oncorhynchus mykiss irideus), and Threespine stickleback (Gasterosteus aculeatus williamsoni) both FHP and Species of Greatest Conservation Need.
Hosie Low Water Crossing	2022	Yes	Yes	Yes	CA	No	California Fish Passage Forum	California Department of Water Resources	Completed	3	$50,000	$50,000	This project will replace the Hosie Low Water Crossing will be replaced from a road to box culverts and a road crossing to allow passage of water under the site with lower velocities. Replacing this crossing with box culverts will allow for passage of water under the crossing with lower velocities thereby lessening the barrier for the fish populations at high and low flows. The project will improve habitat, natural production, and viability of native fish populations in the lower San Joaquin River watershed on the Mormon Slough. Stockton East Water District (project lead and implementer) is working with the California Department of Water Resources (project partner and funding provider) has prepared presentations and workshops. This project supports goals 1, 5, and 7 in the Forum's strategic framework, and targets Chinook salmon – Central Valley spring run ESU (Oncorhynchus tshawytscha) and California Central Valley (CCV) steelhead (Oncorhynchus mykiss irideus) both FHP and Species of Greatest Conservation Need.
CFPF Data Stewardship & GIS Support	2022	Yes	Yes	Yes	OR	No	California Fish Passage Forum	Pacific States Marine Fisheries Commission	Completed	4	$14,817	$14,817	The California Fish Passage Forum has developed a number of GIS processes and datasets that are instrumental to the mission of the partnership. This project will include maintenance and updates to core data layers used by the Forum and routines to assign value-added-attributes to the California Passage Assessment Database (PAD) in preparation for use with the FISHPass application. FISHPass is a decision support tool, developed by the Forum, which uses an optimization model to help identify anadromous fish passage barriers for remediation. This project supports goals 1, 2, 3, 5, and 7 and targets all of the Forum's priority species and areas, as well as Species of Greatest Conservation Need.

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Driftless Area Restoration Effort national fish habitat partnership, Coordination and Operational Support	2022	Yes	Yes	Yes	Multiple	No	Driftless Area Restoration Effort	Trout Unlimited	Completed	1	$85,000	$85,000	DARE project manager works to meet overall partnership goals: reduce sediment and nutrients inputs to Driftless Area rivers and streams; conserve restore and expand habitats that will increase the natural abundance, variety, and health of fish and other aquatic live; increase the quantity and quality of angling and other recreational opportunities; and increase awareness about the Driftless Area resources and the importance of aquatic conservation and restoration through outreach and education. Manger meets above goals through coordination and collaboration with conservation partners. Objectives are to continue to build local capacity to carry out restoration projects, work with landowners to implement BMPs and acquire easements for public access to increase opportunities for trout anglers to fish, work with a multitude of partners to leverage new and existing funds that focus resources to high priority areas, and share information across a variety of audiences.
Cady Creek Habitat Improvement, WI	2022	Yes	Yes	No	WI		Driftless Area Restoration Effort	Wisconsin Department of Natural Resources	-	2	$30,000	-	Cady Creek is a Class I native brook trout stream and a state designated brook trout reserve stream in WI DNR's (2013) Driftless Area Master Plan. Poor agricultural practices including an unmanaged riparian corridor contributes to bank erosion and high sediment loads to the stream. This has severely degraded spawning habitat for brook trout and aquatic insect production, the main food source for trout. Project goals are to restore 3500 feet (FY21-FY22)on Cady Creek, increase the number of juvenile and adult brook trout within the project area, and increase fishing access and fishability for anglers. Objectives are to stabilize 0.33 miles (FY22) of project area stream banks, restore 5.3 acres of native prairie vegetation in riparian corridor, narrow stream channel to its natural width and enhance habitat a variety in xx miles of stream. To do this, invasive boxelder will be removed in riparian corridor and banks stabilized and seeded with native prairie species. Rock weirs, rootwads, and other features will be placed instream at key locations to provide a variety of habitat for brook trout. The WI DNR has experienced biologists and habitat crews to plan and carry out habitat projects through construction completion. WI DNR and TU chapter also have long time experience in conducting pre/post project monitoring.

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Palkowski Road Crossing Replacement on Danuser Creek, WI	2022	Yes	Yes	Yes	WI	No	Driftless Area Restoration Effort	Buffalo County Highway Division	Completed	3	$50,000	$50,000	Danuser Creek is a headwater tributary in the Trempealeau River watershed, a state designated brook trout reserve stream and DARE fhp priority brook trout watershed in the Wisconsin Driftless Area. The Palkowski Road crossing consists of two undersize culverts that cannot accommodate bankfull flows causing water to backup and overflow the banks into adjacent crop fields during heavy rain events, carrying sediment to the stream and causing erosion at the inlet and outlet of the culverts. Overall goal is to remove a barrier to restore unimpeded stream connectivity, restore natural sediment transport, and provide passage for brook trout and associated fish community under all flows. Project objectives are to replace culverts with a single span bridge over the stream channel. County Highway actions will reconnect 4.1 miles of stream for brook trout, dace, and the associated coldwater community. Project objective is consistent with NFHP program strategies and DARE strategic plan objectives of restoring connectivity on target brook trout streams. Buffalo County has experience in addressing problem road-stream crossings and working with farmers to implement BMPs.
Chimney Rock Creek Habitat Improvement, Middle Trempealeau Watershed-WI	2022	Yes	Yes	Yes	WI	No	Driftless Area Restoration Effort	Independence Elk Rod and Gun Club, Trout Unlimited	Completed	4	$20,000	$20,000	Chimney Rock Creek is a 5.7-mile Class II trout stream that flows into Elk Creek in the Middle Trempealeau watershed. The Upper and middle Trempealeau watershed is considered within a Wisconsin core brook trout reserve region (WI DNR 2018) and is a priority fhp brook trout watershed based from 2015 habitat condition assessment. Poor riparian management and ag practices contribute to large sediment loads entering stream and degrading habitat for trout. Goal is to protect native fishery and improve water quality on the 303d listed stream. Objectives are to restore 1.2 miles of riparian habitat, enhance 0.6 miles of instream habitat variety, remove a beaver dam to reconnect 3.0 miles of stream for brook trout and associated fish community, and provide stream access for anglers. Outreach will encompass engaging local school FFA chapters to help on workdays, raise awareness in local community by sharing activities on local cable tv network, and display signage to includes project partners. NRCS and Trempealeau County have experience in working with farmers and other private landowners to implement BMPS utilizing program funds. Pre/post project fish monitoring will be conducted by WI DNR at established stations on stream and is outlined in proposal. State standard protocols and reporting metrics are in place.

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Bruce Valley Habitat Improvement, Middle Trempealeau watershed-WI	2022	Yes	Yes	Yes	WI	No	Driftless Area Restoration Effort	Independence Elk Rod and Gun Club, Trout Unlimited	Completed	5	$20,000	$20,000	Bruce Valley Creek is a 5.0-mile Class II trout stream that flows into Elk Creek in the Middle Trempealeau watershed. The Upper and middle Trempealeau watershed is considered within a Wisconsin core brook trout reserve region (WI DNR 2013) and is a priority DARE fhp brook trout watershed based from prior habitat condition assessment. Poor riparian management and ag practices contribute to large sediment loads entering stream and degrading habitat for trout. Goal is to protect native fishery and improve water quality on the 303d listed stream. Objectives are to restore 0.5 miles of riparian habitat, enhance instream habitat variety in 0.25 miles, and provide stream access for anglers. Trempealeau County has experience working with private landowners to implement BMPS utilizing program funds. Outreach will encompass engaging local school FFA chapters on workdays to get hands-on learning experience. Local community awareness and activities will be aired on local cable network. Pre/post project fish monitoring will be conducted by WI DNR at established stations on stream and is outlined in proposal. State standard protocols and reporting metrics are in place.
DFHP Operational Support	2022	Yes	Yes	Yes	Multiple	No	Desert Fish Habitat Partnership	US Fish and Wildlife Service	Completed	1	$85,000	$85,000	The DFHP coordinator completes a variety of essential functions that contribute to the success of DFHP as a nationally recognized FHP. Facilitating conference calls, annual meetings, organizing the yearly Request for Proposal process, facilitating project review and ranking, engaging the education and outreach through a variety of media, and establishing new and strengthening old partnerships are vital for DFHP's functionality. The operational support project will enable all other on-the ground, assessment, and education/outreach projects to be implemented. This project meets DFHP/NFHP Goals 1, 2, 3, and 4 in the FHP Strategic Plan/National Fish Habitat Action Plan. This project supports Species of Greatest Conservation Need and DFHP priority species (a minimum of 54 SGCN and 179 DFHP priority species) and encompasses all four DFHP priority geographic area (Basin and Range, Lower Colorado River, Upper Colorado River, and Rio Grande).

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Spread Creek Fish Passage	2022	Yes	Yes	No	WY	No	Desert Fish Habitat Partnership	US Forest Service Caribou Targhee National Forest	-	2	$28,750	-	Following a successful modernization of a diversion dam on Spread Creek, it has become apparent that native fish species are becoming entrained in the new irrigation system's ditches. Additionally, high flow events have damaged the diversion's rock weirs and led to issues with water delivery and channel scouring. This project aims to install a fish screen to prevent entrainment and improve migration and local habitat conditions through 0.25 stream miles which will lead to re-opening 5 stream miles to fish passage. This project meets DFHP/NFHP Goals 1, 2, 3, and 4 in the FHP Strategic Plan/National Fish Habitat Action Plan. This project supports Species of Greatest Conservation Need and DFHP priority species (Bluehead Sucker, Mountain Whitefish, Paiute Sculpin, Longnose Dace, Speckled Dace, Mountain Sucker, Mottled Sculpin) and is within a DFHP priority geographic area (Basin and Range).
North Fork Tincup Creek Process Based Restoration Phase I	2022	Yes	Yes	Yes	ID	No	Desert Fish Habitat Partnership	Trout Unlimited	Completed	3	$46,000	$46,000	This project will restore floodplain processes by enhancing floodplain connectivity and productivity as the vegetative community is shifted back to a more wetland type. This will be accomplished through a variety of natural, process based techniques, including beaver, natural stream power, and both anchored and unanchored large wood. This will improve 2.1 instream and riparian miles, increasing the amount of habitat available to the assemblage of native fish species. This project meets DFHP/NFHP Goals 2, 3, and 4 in the FHP Strategic Plan/National Fish Habitat Action Plan. This project supports Species of Greatest Conservation Need and DFHP priority species (Northern Leatherside Chub, Longnose Dace, Speckled Dace, Redside Shiner, Mountain Sucker) and is within a DFHP priority geographic area (Basin and Range).
Barrier Replacement and Habitat Restoration at Bylas Springs	2022	Yes	Yes	Yes	AZ	No	Desert Fish Habitat Partnership	US Fish and Wildlife Service	Active	4	$71,300	$71,300	This project will complete population estimate surveys, topographic surveys, barrier designs for four barriers, and construct two of the four barriers in a spring complex that holds the last remaining population of Gila Topminnow in the Gila River watershed. These barriers are needed to protect non-native fish invasion from the Gila River when flooding. Reintroduction efforts will also be possible, increasing the number of populations of this federally listed species. This project meets DFHP/NFHP Goals 1, 2, 3, and 4 in the FHP Strategic Plan/National Fish Habitat Action Plan. This project supports Species of Greatest Conservation Need and DFHP priority species (Gila Topminnow) and is within a DFHP priority geographic area (Lower Colorado River).

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Indian Creek Barrier	2022	Yes	Yes	No	AZ	No	Desert Fish Habitat Partnership	Arizona Game and Fish Department	-	5	$34,500	-	This project aims to restore a 0.25 mile stretch of Indian Creek by conducting non-native fish removal followed by constructing a barrier to protect the non-native free habitat, thus increasing the amount of habitat for a variety of native and imperiled aquatic species. This project meets DFHP/NFHP Goals 1, 3, and 4 in the FHP Strategic Plan/National Fish Habitat Action Plan. This project supports Species of Greatest Conservation Need and DFHP priority species (Roundtail Chub, Longfin Dace, Desert Sucker) and is within a DFHP priority geographic area (Lower Colorado River).
Riparian Restoration of San Felipe Creek	2022	Yes	Yes	Yes	TX	No	Desert Fish Habitat Partnership	Texas Parks and Wildlife Department	Completed	6	$46,000	$46,000	This project will remove non-native riparian plant species along 11.5 acres of riparian area. Restoring these areas to a native riparian vegetation assemblage will restore over 1.5 miles of instream habitat. By focusing on public land for this stage, the project will serve as a public outreach example for nearby private landowners to allow the same non-native riparian plant techniques. The potential restoration benefit could be upwards of 4 or more instream miles. This project meets DFHP/NFHP Goals 2, 3, and 4 in the FHP Strategic Plan/National Fish Habitat Action Plan. This project supports Species of Greatest Conservation Need and DFHP priority species (Proserpine shiner, Manantial roundnose minnow, Devils River minnow, Tamaulipas shiner, West Texas shiner, Gray redhorse, Texan tetra, Headwater catfish, Spotfin Gambusia, Rio Grande darter) and is within a DFHP priority geographic area (Rio Grande).
R-C Pond Renovation	2022	Yes	Yes	Yes	AZ	No	Desert Fish Habitat Partnership	Trout Unlimited Arizona Council	Completed	7	$11,883	$11,882	This project will replace an ageing springbox to capture all spring flow, and replace a dilapidated pipeline that provides water to a pond that serves as an important refuge population for a subunit of Roundtail Chub. Additionally, since this project is located on a Scout Ranch, an estimated 19,855 user days of recreational fishing opportunities for youth, via summer camps, school field trips, and Scout activities, and increased public access to recreational fishing during the camp off-peak times. This project meets DFHP/NFHP Goals 1 and 4 in the FHP Strategic Plan/National Fish Habitat Action Plan. This project supports Species of Greatest Conservation Need and DFHP priority species (Roundtail Chub, Longfin Dace) and is within a DFHP priority geographic area (Lower Colorado River).

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EBTJV Operational support	2022	Yes	Yes	Yes	Multiple	No	Eastern Brook Trout Joint Venture	Eastern Brook Trout Joint Venture Canaan Valley Institute	Completed	1	$85,000	$85,000	The Eastern Brook Trout Joint Venture (EBTJV) has developed a roadmap for wild Brook Trout conservation grounded in science and guided by its mission to facilitate integrated approaches to conserving healthy coldwater aquatic resources and fishable wild Brook Trout populations. We advance our mission by completing landscape-level scientific assessments on the status of wild Brook Trout and use the results of these assessments to establish key priorities that serve as a framework for collaborating and coordinating strategic conservation actions among our conservation partners. The EBTJV also provides our partners with vital decision-support tools and data management systems that are web-based and readily accessible. Additionally we foster outreach efforts that build stewardship support for conserving wild Brook Trout and we direct resources to essential on-the-ground wild Brook Trout conservation projects. In order to continue to meet these commitments, the EBTJV will conduct a number of operational activities under this project.
Restoration of Riverine Process and Habitat Suitability, Narraguagus River, Beddington, ME	2022	Yes	Yes	Yes	ME	No	Eastern Brook Trout Joint Venture	Project SHARE	Completed	2	$20,000	$20,000	This project has two overarching objectives: 1. Increase in-stream habitat complexity and suitability in high priority Brook Trout and Atlantic Salmon habitat; and, 2. Increase the resiliency of Brook Trout and salmon populations. In order to accomplish these overarching\ objectives this project will: decrease substrate embeddedness by mobilizing the riverbed and increasing the sorting of mobilized sediments, increase the number and depth of pools, iIncrease groundwater/surface water interactions; and, increase retention of allochthonous organic material that the aquatic food web relies on. This project will also benefit river herring. This is a high priority project that will greatly improve aquatic habitat complexity in the Narraguagus and augment connectivity and habitat complexity-availability in a groundwater fed side channel that will provide high quality thermal refugia for both Brook Trout and Endangered Atlantic Salmon

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Cross Brothers Dam Removal	2022	Yes	Yes	Yes	VT	No	Eastern Brook Trout Joint Venture	Vermont Natural Resources Council	Active	3	$100,000	$100,000	The project objectives are 1) To remove the Cross Brothers Dam and return the river to free-flowing conditions; 2) Restore aquatic organism passage to 24 miles of river upstream; 3) Manage impounded sediment, thus protecting existing highway bridge abutments immediately upstream as well as needed streambank stabilization; 4) Facilitate public access to water-based recreation; 5) Educate the public regarding the benefits of dam removal for fish passage; and, 6) Improve existing Wood Turtle habitat by supporting natural channel evolution. This project builds upon other adjacent and connected habitats that have recently been restored to improve wild Brook Trout. Dam removal will improve public recreation access on one of the most popular Trout rivers in VT. This is a high priority dam removal with local support. The combined benefits of the improved public access and restored fish habitat will benefit the town as people will seek out this location for fishing and other water-based recreation.
Culvert Replacement, Blue Lick Run Tributary, Avilton, MD	2022	Yes	Yes	Yes	MD	No	Eastern Brook Trout Joint Venture	Trout Unlimited	Completed	4	$26,000	$26,000	The project's objective is to replace two side by side culverts with a fish friendly crossing. The new open bottom structure will facilitate aquatic organism passage and reopen approximately 1.85 miles of upstream habitat for Brook Trout within Maryland's most intact coldwater fishery, the Savage River. This area is also considered a stronghold for eastern brook trout in the Mid-Atlantic. The new bridge, spanning 1.2 times bankfull width, will a) increase habitat quality by reducing erosion and restoring natural stream process; b) maintain public access to a series of primitive campsites and catch and release angling opportunities; and c) provide a demonstration site to show firsthand how fish passage and flood resiliency can be achieved in concert. This is a high priority brook trout watershed, and we have high confidence that the culvert replacement will achieve desired outcomes.
Building Habitat Resiliency Within the Wolf Creek Watershed, WV	2022	Yes	Yes	No	WV		Eastern Brook Trout Joint Venture	West Virginia Division of Natural Resources	-	5	$76,250	-	The project objective is to install approximately 50 instream and associated riparian habitat enhancements for Brook Trout and other aquatic life in three miles of the Wolf Creek mainstem. Wolf Creek and its perennial tributaries contain an intact, but reduced population of Brook Trout. The topography of the watershed makes the Wolf Creek mainstem especially vulnerable to major flood events. This project addresses the root causes of watershed degradation and will provide resiliency to the habitat against long-term environmental change and future high water events. The project will improve habitat suitability for brook trout and also and improve angler access through fishery improvements and a long term public access agreement.

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Culvert Retrofit for Aquatic Passage Restoration, Kirby Brook, Washington, CT	2022	Yes	Yes	Yes	CT	No	Eastern Brook Trout Joint Venture	Housatonic Valley Association	Completed	6	$26,598	$26,598	Objectives are 1) modify the Kirby Brook culvert by installing rock steps downstream of the site to back up water/increase the depth of water through the structure and eliminate the outlet drop to fully restore passage for fish and other aquatic organisms in 1.8 miles of stream upstream and a total of 8 stream-miles; 2) provide education and outreach about the environmental benefits and feasibility of AOP. Applicants plan a site tour, an educational program and 1+ educational signs for 50 people reached/educated, and 60,000 signage interactions. This may be one of several demonstration sites in partnership with a recently created municipal culvert replacement cooperative to showcase how a culvert retrofit can be a good option when a complete redesign is both infeasible and not warranted from a safety or flooding risk perspective. This project will also benefit wood duck and American eel.
Eastern Brook Trout Mini Grant Program for Coldwater Stewardship	2022	Yes	Yes	Yes	WV	No	Eastern Brook Trout Joint Venture	Eastern Brook Trout Joint Venture	Completed	7	$50,000	$16,244	Eastern Brook Trout Joint Venture proposes to run a mini grant program to streamline small funding for workshops, training, and education related to aquatic resource stewardship for coldwater habitats. Program funding will be available to applicants who can bring nonfederal match. Projects must have measurable outcomes in terms of number of people educated, materials distributed, etc. Priority will be placed on projects targeting one or more EBTJV priority brook trout catchments according to EBTJV's second and ongoing status assessment, or that support range-wide collaboration for stewardship. As one example of one type of project we could support under this program, an applicant could bring together municipal and state highway personnel in their own 'backyard' with technical experts who would train them on stream simulation methods and aquatic organism passage.
FFP Coordination and Operations - IL, IA, MN, MO, WI	2022	Yes	Yes	Yes	Multiple	No	Fishers and Farmers Partnership	US Fish and Wildlife Service, University of Missouri, Dubuque County Historic Society - Habitat for Humanity	Completed	1	$85,000	$85,000	FFP will improve cold, cool, warm water streams for smallmouth bass, channel catfish, brook trout, and other priority fish that are good water quality indicators or bring recreational angling opportunities. Coordination funding is needed to conduct 2 Steering Committee meetings, work with partners to bring in 5-6 new projects that meet state priorities each year, project reporting and funding allocation reports, submit projects for Waters to Watch or multistate conservation grants, work with NFHP/FHPs on projects, attend FHP workshops/meetings, help oversee Science & Communications Teams/projects, and everything else it takes to coordinate a 5-state partnership.

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Boone River Watershed (BRW) Oxbow Restoration Project, IA	2022	Yes	Yes	Yes	IA	No	Fishers and Farmers Partnership	The Nature Conservancy	Completed	2	$26,974	$26,974	FFP, TNC & partners will restore 1 oxbow 0.25 ac of wetland, to increase spawning habitat and presence of FWS federally listed Topeka shiner (FFP priority species), perform 1 fish survey on restored oxbow, host 1 field day in BRW (priority watershed). Project will focus on outreach with Iowa River Revival. Oxbows are monitored each year and data are collected and shared with partners. Restored oxbows reduce nitrates (40-80% average reduction) and sedimentation, focusing on the multi-state (Mississippi River Basin Initiative-addresses water quality). Project also helps restore hydrologic conditions for fish, and reconnects fragmented spawning habitat. Will see more variety of fish and an increase in overall fish# in oxbows. Project is part of a federal FWS/state IA DNR/local TNC endangered species plan.
Perennial Cover for Downstream Habitat Improvement in Seven Mile Creek and Rogers Creek, MN	2022	Yes	Yes	Yes	MN	No	Fishers and Farmers Partnership	Great River Greening	Completed	3	$20,000	$20,000	This project focuses on a priority species, brown trout and (Seven Mile) priority watershed of the FFP and addresses all 4 of the objectives of the FFP Strategic Plan.Great River Greening, Nicollet County, FFP, MN DNR will improve water quality/stream habitat for brown trout through outreach/implementation of ag conservation practices. 2,000 ac upland, 3 field days to bring attention to fish habitat and angling, educate 100 farmers through events & discussions, establish commitments for perennial/cover crops on 2,000 ac across 2 watersheds & drinking water supply management area, create local community group of farmers committed to working together on new cropping rotations, monitoring - collect 3 samples/location 18 mo of WQ data (N, Total P, Total Suspended Solids) to demonstrate effects of conservation practices.
Advancing Cover Crop Adoption in the Le Sueur River Watershed, MN	2022	Yes	Yes	Yes	MN	No	Fishers and Farmers Partnership	Minnesota State University Mankato, Water Resources Center	Active	4	$43,182	$43,182	Project focuses on priority species smallmouth bass, and watershed (Le Sueur-trib of MN) of the FFP. To improve smallmouth bass habitat and angling opportunities downstream, the MSU-Water Resources Center, Waseca SWCD, FFP, MPCA, MN DNR will work to increase adoption of soil health practices-conservation tillage/cover crops, to support transition toward more continuous living cover across Le Sueur Watershed. Le Sueur River Watershed Network (federal/state/local/ partners) has goals of increasing conservation tillage adoption by 10% & cover crop adoption 4% in next 5 years and 480 additional ac. Research/modeling shows conservation tillage/cover crop adoption leads to multiple water quality, soil health, economic, quality of life benefits.

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Regenerative Farming Education and Implementation, MN	2022	Yes	Yes	Yes	MN	No	Fishers and Farmers Partnership	Izaak Walton League	Active	5	$25,000	$25,000	Izaak Walton League of America (MN) & FFP will improve fish habitat for channel catfish, walleye, and smallmouth bass by: using public events, social media, word of mouth, press/media outreach, & other strategies to try to reach at least 15% of 1,450 'principal producers' (active farmers) on county's 1,100 farms. IWL was started to preserve fishing opportunities for future generations. They'll work with farmers to participate in at least 1 forum, organize at least 3 (80-100 attendees each). Partners include: MN Corn Growers Assoc., MN Soybean Growers Assoc. Land O' Lakes, Land Stewardship Project, MN Farmers Union & County Chapter, MN Dept. of Ag, USDA Farm Service Agency, & University of MN Ext.
Building Soil Health to Improve Water Quality, MN	2022	Yes	Yes	Yes	MN	No	Fishers and Farmers Partnership	Land Stewardship Project	Completed	6	$30,000	$30,000	FFP will work with Land Stewardship Project to enhance 500 ac upland, organize 10 educational, soil health workshops, track acreage of Soil Hubs, # Grazing circles & farmer -t o-farmer consultants, expand Soil Builders' Network from 686-800 farmers in 2 years. Create, publicly share resources featuring farmers using soil building practices, and conduct 1-1 personal visits with farmers. Healthy soil acts as a buffer during large rain events, helps mitigate flooding and riparian erosion. This is done by building organic matter, sequestering carbon and increasing water holding-capacity of soil.
Coordination of the Great Lakes Basin FHP	2022	Yes	Yes	Yes	Multiple	No	Great Lakes Basin Fish Habitat Partnership	US Fish and Wildlife Service	Completed	1	$85,000	$85,000	The focus of the GLBFHP over the next three years remains to protect, restore, and enhance fish habitat in the Great Lakes Basin by providing leadership, coordination, and collaboration with existing and future partners. The GLBFHP will continue to support on-the-ground projects that restore ecological function, water quality, and spawning/nursery habitat.
GPFHP Operation	2022	Yes	Yes	Yes	Multiple	No	Great Plains Fish Habitat Partnership	US Fish and Wildlife Service	Completed	1	$85,000	$85,000	Objectives of this project is to continue management of current and past projects funded by the Great Plains FHP since 2017, conduct landscape scale prioritizations and outreach with various state agencies within the partnership area as well as nonprofits and others to identify high priority projects for the FHP applicable for NFHP funding requests.

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Lodgepole Creek Riparian Pasture Project	2022	Yes	Yes	Yes	WY	No	Great Plains Fish Habitat Partnership	Laramie County Conservation District	Active	2	$26,500	$26,500	The project seeks to create a riparian pasture and improved grazing management along Lodgepole Creek. Poor riparian and aquatic habitat on the property can be attributed to year-long grazing. With proper grazing management, the area will rapidly heal leading to a diverse riparian area and more complex aquatic environment for native fish such as Plains Topminnow and Orangethroat Darter. The new grazing strategy will help increase the viability and long-term economics of the landowner's property. Objectives include constructing a 119 acre riparian pasture protecting 7,900 feet of Lodgepole Creek. Develop an adaptive grazing management plan for the created 119 acre pasture that allows for improved riparian conditions for native fish, while also maintaining needed grazing to benefit the Colorado Butterfly Plant. Increase woody vegetation recruitment along stream corridor by 25% over first 5 years of grazing plan. Narrow Lodgepole Creek riffle widths from approximately 8 ft to 3 ft over 10 years. Develop an off-channel water source (well/solar pump/tank) in the north pasture to provide water for cattle.
North Laramie River Fish Passage	2022	Yes	Yes	Yes	WY	No	Great Plains Fish Habitat Partnership	Wyoming Game and Fish Department	Active	3	$26,500	$26,500	Objectives for this project would be to provide year-round passage for species, build passage structures that minimize large debris and sediment from affecting passage facilities, ensure reliable irrigation diversions with minimal maintenance needs; and reduce or eliminate entrainment in the North Laramie Company irrigation canal. The North Laramie drainage supports many native prairie stream fish species including several Species of Greatest Conservation Need (SGCN). In fact, the North Laramie and lower Laramie River are only two of three streams in Wyoming where Homynead Chub existed. Currently, Homyhead Chub occupy habitat above the project sites. Entrainment sampling has confirmed at least seven different native non-game species entrained into the canal, including two SGCN species; Homyhead Chub and Common Shiner. This is a priority restoration watershed for the FHP.

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Oasis Ditch Fish Passage	2022	Yes	Yes	Yes	WY	No	Great Plains Fish Habitat Partnership	Wyoming Game and Fish Department	Active	4	$26,500	$26,500	Objectives of this project include providing upstream passage and reconnect 20 miles of upstream habitat as well as improve stream function; sediment transport and wetland habitat enhancement and migratory bird habitat. Oasis Ditch provides irrigation water for 9,180 acres and is in need of significant repairs and improvements to reduce maintenance, improve operations, and provide long-term stability for the LVMID. This work also provides an opportunity to improve fish passage as it is currently a full barrier to upstream fish movements. Providing passage at this diversion would open up over 20 miles of habitat upstream of the structure. In addition, sediment transport and wetland habitat will be enhanced at the site that will improve stream function and migratory bird habitat. This is a priority watershed for the FHP to optimize restoration efforts for focus species.
Scaling Up Estuarine Habitat Restoration at Kīholo Fishpond	2022	Yes	Yes	Yes	HI	No	Hawaii Fish Habitat Partnership	The Nature Conservancy in Hawaii	Active	1	$125,000	$125,000	Ka Loko o Kīholo (the Kīholo estuary/fishpond complex), located in North Kona, Hawai‘i Island, is a seven acre preserve managed by The Nature Conservancy and Hui Aloha Kīholo. Kīholo represents an estuarine ecosystem that provides important habitat for native species, protects the adjacent coastline, and supports recreational and subsistence fishing for the community. This project will remove one acre of invasive vegetation from a densely overgrown area surrounding the pond, replant one acre with riparian native plants, remove sediment from 0.5 acres of the fishpond to improve water quality and benthic condition, promote community engagement and learning networks to reach at least 300 volunteers, and conduct monitoring to track impact of the restoration on fishpond and marine habitat. The proposed project will support removal of at least 1 acre of kiawe (the invasive tree Prosopis pallida) within the ungulate exclosure fenced restoration areas surrounding Kīholo Fishpond. This will be followed by outplanting native riparian vegetation using material propagated at TNC’s on-site plant nursery. In addition, TNC will continue to remove organic sediment from Kīholo Fishpond with pumps operated by our field crews, and will pump at least an additional 0.5 acre. The removal of accumulated detritus will expand the extent of hard-bottom substrate preferred by recreationally and culturally important native fish. The impact of this project will be demonstrated by continuing TNC’s long-term data collection on vegetation status, sediment, water quality and fish stocks, which help us to understand and share how restoration efforts can successfully lead to improvements in recreantly and culturally important fish production at Kīholo.

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Maunalua Bay: Large-scale Nearshore Marine Habitat Restoration	2022	Yes	Yes	Yes	HI	No	Hawaii Fish Habitat Partnership	Malama Maunalua	Active	2	$70,900	$70,900	Maunalua Bay is a prominent embayment located on the southeast shoreline of Oahu and extends from Kawaihoa (Portlock) to Kūpikipiki‘ō (Black Point), is one of the largest bays (7+ miles of shoreline and 6.5 mi2 of marine habitat) in the main Hawaiian Islands. The Bay is dominated by an extensive reef flat that historically supported extensive native Halophila Hawaiian beds, native macroalgae/Halimeda meadows, and reef habitat. An on-going restoration project to maintain and monitor 27+ acres of the reef flat at Pāiko Beach has now expanded to 2 acres at Kuli‘ou‘ou Beach Park. Through a successful service learning model, the Huki Project (which means “to pull” in Hawaiian) brings on average, 2,500 volunteers annually to the Bay to remove invasive algae at strategically selected areas. This project will support continued algae removal, seagrass restoration and coral transplantation across a two acre area of reef flat. This project will perform two conservation actions related to removal of invasive algae, fostering regrowth of native algae and seagrass, and transplantation of corals. This project will improve the nets used during community volunteer workdays to better control fugitive algae fragments and will subsequently monitor the efficacy of the new removal techniques. In addition the proposed project will begin trials to transplant thermally-tested corals to specified areas in the Pāiko Restoration Area and will monitor the success of the coral transplants in-situ. Regular snorkel surveys will document fish and other marine resources presence and coral growth via coral cams. Across all activities, the grant will support outreach and lessons learned on our website and with interested communities for others to benefit

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Alakoko Auwai Restoration	2022	Yes	Yes	Yes	HI	No	Hawaii Fish Habitat Partnership	Malama Huleia	Active	3	$128,000	$128,000	The goal of the proposed Alakoko Auwai Restoration Project is to improve the quality of water and fish habitat at the Alakoko estuary/fishpond complex and adjacent Huleia River, Kauai. The proposed restoration area is approximately seven acres which is contiguous with ongoing restoration of over 25 acres of recently restored aquatic habitat. Measurable objectives are to: remove invasive vegetation and organic debris from seven acres of riparian area along the auwai (channel) adjacent to the fishpond, re-establish native wetland and riparian vegetation, collect data to support the overall project monitoring effort, and continue quarterly vegetation maintenance throughout the restoration site. The proposed habitat restoration project will improve hydrologic function, restore habitat for native aquatic species through improved water quality, re-open foraging areas for shore and marsh birds, and remove invasive plant species to allow for the reintroduction of native plants. The restoration of natural flow conditions in the Hulēʻia River portion of the proposed project area will improve both adult resident habitat and migratory pathways used by native freshwater and estuarine fish known from the Hulēʻia River and its tributaries. Many of the recreationally and culturally important euryhaline species that are found in the Alekoko estuary/fishpond complex and Hulēʻia River are transient and utilize the fishpond and nearby waters primarily as juveniles. Restoration of suitable habitat for these species will enhance fish production within the project area and, as these transient fish mature, will move on to repopulate nearby open coastal waters and coral reefs.

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Nearshore Habitat Restoration for Native Fish in Keawanui Loko I‘a	2022	Yes	Yes	No	HI		Hawaii Fish Habitat Partnership	‘Āina Momona	-	4	$45,480	-	This project is located adjacent to an ancient Hawaiian estuary/fishpond complex (loko i‘a). Loko i‘a are located in areas where freshwater input from freshwater springs (punawai) or streams to ensure brackish water environments for pua (fry) to thrive. The goal of this project is remove a two-acre stand of invasive riparian woody vegetation (primarily non-native red mangrove) and to re-establish a replacement stand of low-stature native riparian vegetation. In addition, invasive algae will be removed along 300 linear feet of submerged area shoreline directly adjacent to the two-acre restoration area. This project will engage over 500 people for education purposes through an on-site home school program and a well-established volunteer program that trains the local Native Hawaiian population to lead conservation and restoration efforts in their communities. Project funds will support continued water quality to assess pH, temperature, dissolved oxygen, and salinity. A monthly fish survey will be conducted by staff as part of a larger effort to scale up data collection for understanding of the estuary/fishpond complex. This project has five components, invasive vegetation removal, maintenance, native vegetation outplanting, monitoring, and community education. Loko i‘a are crucial components of the ahupua‘a system (ancient Hawaiian system of land tenure), island sustainability, cultural conservation and preservation, and long-term environmental change resiliency. Moloka‘i alone has more than 70 fishponds, encompassing over 1500 acres of nearshore estuarine and reef flat area. The restoration and revitalization of Keawanui Loko I‘a has proven potential to create employment and sustainable economic growth opportunities through practicing traditional substance fishing as well as recreational fishing opportunities. These restoration actions will strengthen important cultural practices and will increase regional economic activity, both of which have great benefits to the local community.

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Kuhialoko: Restoring Fish Passageways in Waiawa Kai	2022	Yes	Yes	No	HI		Hawaii Fish Habitat Partnership	Kuhialoko	-	5	$40,150	-	The primary goal of this project is to restore freshwater and estuarine habitats adjacent to Pearl Harbor that sustain the recreational and subsistence harvesting of fish species including ‘ama‘ama (grey mullet, Mugil cephalus), ālohehole (Hawaiian flagtail, Kuhlia xenura) and others. Because of their cultural importance, restoration of these waterway will provide an avenue for connecting people back to their history and the ‘aina (sacred lands). Mullet in particular are important. ‘Ama‘ama, hold a special place in Hawaiian history. They are a species that does well extremely well in estuaries, and was revered for its taste. This fish was a critical food species for native Hawaiians, particularly the Pearl Harbor estuary where large numbers of fishponds were once present. For the purposes of this project, funding will be applied to: 1) pay staff to remove invasive plant and animal species from stream and ‘auwai waterways, 2) lease heavy equipment for the removal of larger waterway obstacles, including abandoned water control structures and larger plants, 3) pay for native plant species to be planted in restored areas to minimize invasive species returns, 4) purchase tools, equipment, supplies, and PPE to assist in directly working in the waterways in order to clear invasive vegetation and remnants of historical land mismanagement.

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Creating Oyster Beds to Improve Habitat at Waikalua Loko I‘a	2022	Yes	Yes	No	HI		Hawaii Fish Habitat Partnership	Pacific American Foundation	-	6	$75,000	-	This project will scale up oyster bed re-establishment by outplanting 1,500 caged juvenile oysters (Dendostrea sandvicensis) which are native to Hawaiian waters in Waikalua Loko I‘a, an estuary/fishpond complex located adjacent to Kaneohe Bay on the Island of O‘ahu. Results will be quantified as number of square meters with oysters established on them. In addition, number of oyster recruits, density of oyster recruits, percent success of outplanted oysters will be reported. Water quality will be measured weekly using a hand-held meter to measure pH, conductivity, TDS, salinity, and temperature. Water quality parameters, nutrients, and bacteria, will be monitored by local high school and college students as part of a community outreach program with the participation of multiple school groups. Continuous dissolved oxygen measurements are recorded from a permanent meter installed in the fishpond. A drone will be used to provide aerial photographs documenting fishpond conditions. Underwater photos will be taken in the areas where oyster beds are being created. Oyster bed restoration is an emerging fish habitat restoration technique in Hawaiian estuaries and nearshore coastal areas. In the two years since O‘ahu Waterkeeper has been placing native oysters at selected locations on the island of O‘ahu, the organization has employed numerous volunteers to conduct successful trails testing different materials and substrate designs to enhance larval recruitment and settlement. Specific conservation actions are as follows: 1) outplant adult oysters from our current grow-out trials directly on substrate, 2) collect recruits from settlement substrates at various locations around the fishpond, transfer to grow out cages and ultimately transfer to planned oyster beds as they reach maturity, 3) allow recruits to mature on settlement substrates and then transfer directly to planned oyster beds, 4) place settlement substrates on or near planned oyster bed restoration sites for spat recruitment and settlement. Public outreach and education will consist of monthly community workdays, bi-monthly visits by school groups, and weekly participation with interns from a high school Natural Resource Academy students. In addition, five community workdays will be organized. Three interns will be selected from local community colleges and the University of Hawai‘i system to be trained in all aspects of oyster bed restoration and monitoring. Interns will also lead public outreach and education events.

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Ka‘elepulu Estuary Dredging to Increase Shallow Water Nursery Habitat, Phase II	2022	Yes	Yes	No	HI		Hawaii Fish Habitat Partnership	Enchanted Lake Residents Association	-	7	$60,000	-	This goal of this project is to improve water quality in the Kaelepulu estuary and restore the diverse ecosystems found within Ka‘elepulu Pond and Wetland. The primary project focus is on the removal of a large volume of sediment to restore salt wedge circulation, with additional dredging to expand shallow water fish nursery habitat adjacent to the Ka‘elepulu Wetland. The 20-foot wide canal around the wetland perimeter (3,200 linear feet) will be deepened to its design depth of four feet to dissuade predator access into the wetland. Existing but degraded channels, 10 to 12-feet wide, will be restored through the center of the wetland to re-establish shallow edge habitat within the wetland. These channels will create 24,000 square feet of new nursery habitat and 4,200 linear feet of new and restored edge habitat within the wetland. Fingerling mullet, milkfish, jacks, and barracuda (‘awa, ‘ama ‘ama, papio, and kākū) are known to use this shallow water nursery habitat. The primary project focus is on the removal of sediment to restore salt wedge circulation and to expand shallow nursery habitat in the Ka‘elepulu Wetland. This estuary system is contiguous with Ka‘elepulu and Kawainui Streams, Ka‘elepulu Pond, and Ka‘elepulu and Hamakua Wetlands. While the estuary has been dramatically altered by encroaching urban development over the past 60 years it remains a vibrant ecosystem, with continuing progress made through community, government and private initiatives. Removal of sediment will re-establish effective tidal exchange with the pond and wetland resulting in increased salinity and increased circulation in the pond. We expect an increase in the average salinity from the existing 15ppt to 25ppt after restoration. The increased tidal flow and improved circulation to the pond will deliver greater quantities of fish eggs and larvae into the wetland which functions as very effective nursery habitat. The increase in nursery habitat supporting multiple fish species will directly benefit sport and subsistence fishing throughout Ka‘elepulu estuary and adjacent Kailua Bay.

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Kenai Peninsula Fish Habitat Partnership Coordination and Operational Support	2022	Yes	Yes	Yes	AK	No	Kenai Peninsula Fish Habitat Partnership	Kenai Watershed Forum	Completed	1	$85,000	$85,000	The Coordinator of the KPFHP supports the efforts of our 38 voluntary members. As a result, local and regional conservation organizations are able to effectively and collaboratively focus their conservation efforts, while avoiding disparate efforts and enabling more widespread knowledge sharing and access to information. Since our inception in 2010 the KPFHP has funded 67 distinct projects focusing our on highest priority conservation threats and target habitats, resulting in significant and measurable positive impacts for the fish and aquatic resources within our geographic scope. These voluntary partnerships have produced measurable progress as defined in our strategic plan and conservation action plan, also fulfilling the goals of NFHP: protecting and maintaining intact and healthy aquatic ecosystems, preventing further degradation of fish habitats, reserving declines in quality and quantity of aquatic habitats, and increasing the quality and quantity of fish habitat.
Elodea Surveys in Kenai Peninsula Lands of Western Cook Inlet	2022	Yes	Yes	Yes	AK	Yes	Kenai Peninsula Fish Habitat Partnership	Tyonek Tribal Conservation District	Active	2	$40,107	$40,107	This project will identify and prioritize remote waterbodies for presence/absence surveys of Elodea on the Kenai Peninsula lands of Western Cook Inlet. Surveys will occur at two waterbodies by collaborating with the Kenai Watershed Forum and Cook Inlet Aquaculture Association to survey the floatplane accessible waterbodies in the Big River Lakes area; as a partnership, we seek to survey all Big River Lakes used by floatplanes. The project will also conduct Elodea presence/absence surveys at four additional waterbodies collaboratively with Cook Inlet Aquaculture Association; these four waterbodies are the largest within the region bordered by the westside road system [Tyonek/Beluga Highway] to the north, and Lake Clark National Park to the south that have not yet been surveyed for Elodea in recent years.
Stream Watch: Volunteer-Driven Fish Habitat Stewardship on the Kenai Peninsula	2022	Yes	Yes	Yes	AK	No	Kenai Peninsula Fish Habitat Partnership	Kenai Watershed Forum	Active	3	$52,005	$52,005	Stream Watch staff will recruit 70+ volunteers who will manage 2+miles of riparian habitat protection fencing, remove 3,500+ pounds of fish endangering debris, complete erosion control projects, and educate 3,000+ people about fish habitat. The program will have an expanded presence on the coast and at southern Peninsula sites such as Ninilchik, Deep Creek, and Anchor Point. Stream Watch's new Invasive Species Ambassadors program will recruit 15 volunteers, conduct 5 invasive species removal workdays, and assist in surveying for invasive species around the Peninsula. The long-term objective of the invasive species component is to create a robust citizen science and restoration effort to assist in managing invasive species on the Kenai Peninsula.

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Maintaining Capacity for Aquatic Early Detection and Rapid Response within the KPFHP	2022	Yes	Yes	Yes	AK	No	Kenai Peninsula Fish Habitat Partnership	Kenai Watershed Forum	Active	4	$46,804	$46,804	This project will initiate aquatic invasive species early detection surveys that will include but are not limited to the detection of Northern pike, Elodea, and non-native freshwater mussels (Quagga, Zebra). Using the prioritization method developed by KWF, all waterbodies receiving a score of 5 or higher will be surveyed on a yearly basis, amounting to ~20 waterbody surveys per year. Through the education and outreach efforts of the KP-CISMA, a broad assortment of members of the public will be reached including recreationists (OHVers, hunting club members, fishing club members, boaters, hikers, bikers), tourism industry members, commercial fisheries industry members, and school aged children. Over the course of two years, all the identified users' groups will be engaged in some form of KP-CISMA outreach. Outreach priorities have been identified in the KP-CISMA Strategic Plan and these efforts will be guided by the AK Invasive Species Partnership Communications Framework.
Incorporating Biological Indicators into Baseline Water Quality Monitoring in the Kenai River	2022	Yes	Yes	No	AK		Kenai Peninsula Fish Habitat Partnership	Kenai Watershed Forum	-	5	$34,125	-	This project will adapt methods from the EPA's Rapid Bioassessment Protocols for water aquatic macroinvertebrate and periphyton sampling and incorporate them into the existing QAPP for the Kenai River Baseline Water Quality Monitoring program. The QAPP will describe appropriate QA/QC methods to ensure these data may be elevated to the EPA Water Quality Portal. Bioindicators will be measured at established sites throughout the Kenai River watershed, and results will be presented in a public-facing white paper. Periphyton results will be presented as ash free dry mass (milligrams) and chlorophyll-a concentrations (ug/L). Aquatic macroinvertebrate results will include calculated metrics of biotic integrity such as total taxa, number of EPT taxa, % midges, and Shannon's Index. Metrics which may be compared across sites throughout the Kenai River will be summarized.

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Kenai River Center Education and Outreach	2022	Yes	Yes	No	AK		Kenai Peninsula Fish Habitat Partnership	Kenai Peninsula Borough	-	6	$32,063	-	The newly established EOS position will develop a comprehensive education and outreach plan (EOP) on behalf of the partners of the KRC through a needs assessment process, which is necessary to provide consistent implementation of freshwater and coastal management policies within the KPB watersheds. With few exceptions, all documented anadromous water bodies within the KPB are subject to habitat regulations. Education and outreach strategies identified through the EOP plan will consider conservation issues, economic opportunities, recreational uses, resource management, and social impacts. The EOS position will also maintain familiarity with aquatic resource management and current permitting issues on the KPB. The EOP will serve as the foundation for seeking further financial and in-kind support for the long-term continuity of this position, as well as working on the top one to three educational gaps identified through the EOP.
Land Management Best Practices for Conservation Donors and KHLT-Owned Conservation Property	2022	Yes	Yes	No	AK		Kenai Peninsula Fish Habitat Partnership	Kachemak Heritage Land Trust	-	7	$5,680	-	This project will result in increased landowner access to and understanding of Best Management Practices (BMPs) for salmon stream habitat, Conservation Easement (CE) land, and land adjacent to conservation land protected by Kachemak Heritage Land Trust (KHLT) on the Kenai Peninsula. Distribution of printed material on BMPs to all owners of land protected by a CE on a salmon stream and to all owners of land adjacent to land owned for conservation on a salmon stream. Placement of the BMPs information will be on KHLT website and social media. Direct conversations with owners of land protected by a CE on a salmon stream about BMPs will also occur, and sharing of materials created and information learned will occur with KPFHP and other partners at the KPFHP/Kachemak Bay Science Symposium and other venues as appropriate.
Salmon Stewards	2022	Yes	Yes	No	AK		Kenai Peninsula Fish Habitat Partnership	Kachemak Bay Conservation Society	-	8	$3,355	-	This project will produce a video series supporting KPB Ordinance 21.18 in collaboration with the Kenai River Center and staff from KPB, ADFG, NOAA, and KWF. Videos will be posted on the Kenai River Center website and other digital media platforms. The video projects will then be utilized to build partnerships and develop a broader follow-up project to continue to expand the Kenai River Center's outreach and engagement with landowners along anadromous waterbodies, particularly in more rural areas of the KPFHP.

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Northern Kenai Peninsula Anadromous Species Habitat Documentation and Protection	2022	Yes	Yes	No	AK		Kenai Peninsula Fish Habitat Partnership	Trout Unlimited Kenai Peninsula Chapter	-	9	$12,100	-	The Kenai Peninsula Chapter of Trout Unlimited (KPTU) will complete anadromous fish surveys at six remote sites in the Otter Creek and Seven Egg Creek watersheds. At sites where anadromous species are found, KPTU will file nominations to the ADFG Anadromous Waters Catalog for protection. KPTU will also engage and educate ten volunteers who will participate in the project, as well as the organization's 50+ members.
Salmon Safe Agriculture: Alaskanizing Principles for Farming on a Salmon Landscape	2022	Yes	Yes	No	AK		Kenai Peninsula Fish Habitat Partnership	Cook Inletkeeper	-	10	$20,500	-	This project will build broad-based and long-term adoption of salmon-safe agricultural practices across the Kenai Peninsula. By bringing together a working group of local farmers and indigenous growers, project proponents will work to identify sustainable and responsible farming practices on salmon landscapes. Alaskanize Salmon-Safe© Agricultural principles will be utilized to protect salmon habitat and water quality, and promote a salmon-safe agricultural ethic through engaging communications and strategic outreach efforts. Cook Inletkeeper will work with Salmon-Safe staff to incorporate the knowledge gained through the working group and address high priority threats to Kenai Peninsula salmon habitat, including preventing invasive species introductions; minimizing loss of shade in riparian areas to keep streams cool; ensuring fish passage; and maintaining ecological integrity of riparian, groundwater and wetland connections to stream and lake habitat.
Kenai River Cam Outreach Initiative	2022	Yes	Yes	No	AK		Kenai Peninsula Fish Habitat Partnership	Kenai Peninsula Borough	-	11	$13,400	-	The main objective of the River Cam project is to increase awareness of and knowledge about appropriate riverbank protection and restoration techniques in increasingly developed areas. Other objectives include adding video content to our website discussing: the effects of changing temperatures on our habitat, floodplains, and fish populations, invasive aquatic species, and other natural resource best management practices (BMP's). In order to engage the community in conversations surrounding BMP's for riverbank protection, the River Center proposes to publish a livestream River Cam where users can go to view the river, the ongoing bank restoration projects at the River Center, and learn more about restoration BMP's. In the two seasons following installation, River Center staff will be able to measure and track: the total views the River Cam gets, the number of inquiries to the River Center, and note any trends/correlation in the number of restoration permits issued.

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Stream Temperature and Hydrology Modeling of Lowland Groundwater/Wetland Dominated Systems	2022	Yes	Yes	No	AK		Kenai Peninsula Fish Habitat Partnership	Woodwell Climate Research Center	-	12	$104,290	-	The overall goal of this project is to improve environmental change and land use literacy among land owners and policy makers as it relates to lowland salmon bearing streams on the Kenai Peninsula by developing the necessary baseline information such as anticipated stream temperatures and flows under changing environmental conditions. The objectives include: 1) Developing a stream temperature model in the WaSiM hydrology model; 2) Test the new version of WaSiM to measured streamflow and stream temperature; 3) Apply the model to selected watersheds (Anchor and Ninilchik River watersheds) to model hydrology and stream temperatures through a multiple scenario approach (long-term environmental change only, and long-term environmental changes plus land use changes); and 4) Identify highlights in the modeling results and present the information in a format that is digestible to landowners and policy makers.
Delineating Urban Change in the Middle Kenai River Region for Watershed Analysis	2022	Yes	Yes	No	AK		Kenai Peninsula Fish Habitat Partnership	St. Mary's University	-	13	$38,520	-	Derived datasets from this project will help KPFHP stakeholders increase their understanding of how changes in the urban landscape affect the natural condition of the Kenai River watershed and will further assist with conservation, restoration decision support and future urban planning. Impervious surfaces have been identified as a data gap for determining non-point sources of pollution. Current data is generalized and encompasses areas of natural features that do not meet the definition of impervious surface and therefore indicates a false accounting of impervious surface. In addition, generalized datasets will skew future analysis that utilizes the inaccurate data. Longer term measurable objectives is to see a decrease in pollutants entering the aquatic habitats that are so vital for the success of fish population on the Kenai Peninsula.
Mat-Su Salmon Partnership Outreach and Coordination	2022	Yes	Yes	Yes	AK	No	Matanuska Susitna Basin Salmon Habitat Partnership	Trout Unlimited	Completed	1	$85,000	$85,000	This project continues coordination functions for the Partnership and enhances its outreach capabilities by 1) supporting the Partnership Coordinator position; 2) support trainings and workshops for partners; and 3) advancing outreach activities for the Partnership to benefit salmon habitat. Measurable goals and objectives include facilitating regular Committee meetings of the Partnership, hosting of the 2022 Mat-Su Salmon Symposium, annual site tour for community leaders, educating at community events and in schools, publishing a Partnership progress report as well as meeting other organizational goals outlined in the Partnership's Addendum to the Strategic Action Plan. By facilitating meeting of Partnership organizational goals, this project ensures greater success in meeting all of the Partnerships conservation goals outlined in the Strategic Action Plan.

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2022 Mat-Su Water Reservation Program Flow Data Acquisition to Protect Salmon Habitat	2022	Yes	Yes	Yes	AK	No	Matanuska Susitna Basin Salmon Habitat Partnership	US Fish and Wildlife Service	Completed	2	$35,000	$35,000	The Mat-Su Water Reservation Program quantifies and protects stream flows to maintain healthy salmon production and habitat through acquiring instream flow water rights. This project will fund the fifth and final year of gaging on Bodenburg Creek – a priority index site that will also be used to secure water rights on up to seven additional salmon streams flowing into Knik Arm. This will be accomplished through hydrological data collection to quantify flow needs on Bodenburg Creek, with additional field measurements on the seven small streams which will be used to correlate to the Bodenburg gage and apply for additional water reservations for each of the seven streams.
Removing Salmon Barriers Through the Mat-Su Fish Passage Program	2022	Yes	Yes	Yes	AK	No	Matanuska Susitna Basin Salmon Habitat Partnership	Matanuska Susitna Borough	Active	3	$100,000	$100,000	This project on Crocker Creek at Settlers Bay Drive, replaces one barrier to fish passage and re-opens .30 miles to the next crossing and 2.1 miles of total potential upstream habitat. This will provide both upstream and downstream access for rearing juveniles and adults and will increase the ability of Coho and Sockeye salmon to survive and flourish. The crossing has been identified by the State as a complete barrier to juvenile and adult salmon passage. A new embedded culvert with a low slope and roughened riffle to eliminate the perch outlet, reduce velocity and provide resting areas for juvenile salmon will replace the former culvert. A low flow channel will be constructed through the culvert that mimics natural low flow channel dimensions at a reference reach located in the Crocker Creek system. The Partnership ranked this culvert in the top 24 culverts to be replaced for fish barrier issues.
Anadromous Waters and Elodea Surveys in the Remote Western Matanuska-Susitna Borough	2022	Yes	Yes	Yes	AK	Yes	Matanuska Susitna Basin Salmon Habitat Partnership	Tyonek Tribal Conservation District	Completed	4	$56,852	$56,852	This project will identify data gaps in the Alaska Anadromous Waters Catalog in this region and areas vulnerable to development and will survey a minimum of 10 locations and submit them for inclusion in the state Anadromous Waters Catalog. It will additionally identify and prioritize remote waterbodies for surveys of aquatic invasive plant Elodea and conduct five Elodea presence/absence surveys at highest priority remote waterbodies. TTCD staff will select sampling locations where overlap between AWC data gaps and Elodea survey needs exist; will prioritize geographic scope based on proximity to proposed development projects, AWC sampling priorities, and distance to nearest Elodea infestation.

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Hewitt Lake Juvenile Sockeye Population Assessment	2022	Yes	Yes	Yes	AK	No	Matanuska Susitna Basin Salmon Habitat Partnership	Alaska Department of Fish and Game	Completed	5	$19,923	$19,923	Part of a collaborative effort to reduce severe impacts of invasive pike on an important rearing area for sockeye salmon, the goal of the proposed project is to assess the abundance of juvenile sockeye salmon rearing in Hewitt Lake following localized pike eradication efforts by CIAA. Eradication will occur from spring to fall, with sockeye assessment occurring in late September or October, utilizing underwater hydroacoustic methods. Project addresses Objective 7– control of Aquatic Invasive Species in the Partnership's Strategic Action Plan, and targets FWS Trust Species, and priority species for the Partnership. Results from this assessment will evaluate whether invasive pike eradication positively influences juvenile salmon production – a fundamental component of an eradication effort. Invasive species such as northern pike that are not native to Southcentral Alaska, can have severe impacts on salmon populations.
Anadromous Waters Prioritization for the Matanuska-Susitna Basin	2022	Yes	Yes	Yes	AK	No	Matanuska Susitna Basin Salmon Habitat Partnership	University of Alaska Anchorage	Active	6	$56,530	$56,530	This project will result in identification of highest priority waters in the Mat-Su Basin to be surveyed for inclusion in the Anadromous Water Catalog (AWC), thereby affording those streams and riparian habitats administrative protection under the State of Alaska Anadromous Waters Act. Other measurable objectives include creation of a database of topographic and climatic attributes for all stream reaches in the NHDPlus for the Mat-Su basin, building of a suite of species distribution models for juvenile salmonids across the Mat-Su basin, and mapping of predicted probabilities of suitable habitat for juvenile salmonids using an ensemble of species distribution models and creation of publicly accessible map products on ArcGIS Online.
Riparian Mapping of Mat-Su Priority Salmon Streams – Willow and Wasilla Creeks	2022	Yes	Yes	No	AK		Matanuska Susitna Basin Salmon Habitat Partnership	University of Alaska Anchorage	-	7	$30,273	-	This project will map human alterations (impervious surface) and natural vegetation within a 35 mile long riparian corridor along two high priority creeks, classify riparian habitat into high, medium and low value, create an inventory for future restoration needs and combine riparian mapping with other relevant salmon data such as spawning/rearing areas. This project builds on previous efforts to similarly map other important waters, and will provide the Partnership baseline maps of riparian areas to measure future changes and prioritize conservation and restoration.

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Western Susitna Watershed Instream Flow Protection	2022	Yes	Yes	No	AK		Matanuska Susitna Basin Salmon Habitat Partnership	Alaska Department of Fish and Game	-	8	$35,000	-	Utilizing a primary tool to ensure adequate water remains for fish as an area develops, this project quantifies and protects stream flows to maintain healthy salmon production and habitat through acquiring instream flow water rights. This project will establish year one and two of data collection on the Talachulitna River – an important waterbody, supporting five species of salmon for a total of five years of collection. Partner will establish an index site on the Talachulitna to collect necessary hydrologic and biological data including a network of semipermanent discharge stations.
Elodea Surveys within Nancy Lake State Recreation Area	2022	Yes	Yes	No	AK		Matanuska Susitna Basin Salmon Habitat Partnership	Cook Inlet Aquaculture Association	-	9	$11,585	-	This project will survey for the presence of the invasive waterweed Elodea in 22 waterbodies within the Nancy Lake State Recreation Area - a high-risk location for the presence of Elodea. It will also provide outreach to Nancy Lakes recreationalists - including written and verbal information about Elodea, why it can be detrimental to Alaska's resources, and what users can do to prevent it's spread.
Midwest Glacial Lakes Partnership Operations	2022	Yes	Yes	Yes	Multiple	No	Midwest Glacial Lakes Partnership	Michigan Department of Natural Resources	Completed	1	$76,437	$76,437	This project will support basic operations of the partnership including staff support to implement the Midwest Glacial Lakes Partnership Strategic Plan, coordinate partnership committees, complete tasks identified by the committees, and travel as necessary.
Assessing relationships between fisheries and aquatic vegetation to improve lake habitat management	2022	Yes	Yes	Yes	MN, WI, MI	No	Midwest Glacial Lakes Partnership	University of Wisconsin Madison	Active	2	$60,155	$60,155	Interactions between aquatic vegetation and fish are poorly understood, leading to substantial uncertainty in how to manage aquatic plants to support fisheries goals. By combining extensive datasets for macrophyte and fish communities across thousands of lakes in the MGLP, this project will aim to augment the lake management toolbox by quantitatively linking aquatic vegetation and its management to recreational fisheries. This project will address two specific questions that are high priorities for agencies: 1. What is the importance of aquatic vegetation for walleye recruitment? and 2. How can aquatic vegetation management be used to manage and support popular recreational fisheries, including panfish, bass, and walleye? The project will assess relationships between plant community structure and fish populations using data analysis and modeling, leading to practicable guidance for how plant and fish communities can be holistically managed.

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Shoreline Habitat Restoration Projects	2022	Yes	Yes	Yes	MN	No	Midwest Glacial Lakes Partnership	Stearns County Soil & Water	Active	3	$75,000	$75,000	Five lakefront landowners in Stearns County, MN will complete a shoreline restoration using natural techniques to expand and protect fish and wildlife habitat. The property owners personal experience will also be used to promote additional projects and habitat connections during coordinated site visits; on average, site visits like this happen 12 times a year and are a very effective technique in giving shoreline property owners a better understanding of the scope of a project and the multiple benefits.
Identifying and Prioritizing lakes of biological significance	2022	Yes	Yes	Yes	MN	No	Midwest Glacial Lakes Partnership	Northern Waters Land Trust	Completed	4	$37,647	$37,647	A Lake of Biological Significance (LBS), as defined by MN DNR researcher Paul Radomski, is a lake with unique plant or animal presence, such as: aquatic plants, fish, birds, and amphibians. The 4-county service area of Northern Waters Land Trust (NWLT) includes 391 LBS, and there is no prioritization method for parcels on or within the watersheds of these LBS. The NWLT will expand upon an existing assessment method to develop a parcel-based map to prioritize protection along the shorelines and in the watersheds of 20-40 priority LBS. NWLT's proposed methodology is essential for conservation efforts directed at mitigating the impacts of shoreline development, long-term environmental change, deforestation, and more. The NWLT will conduct outreach throughout tool development and after completion.
Lake Goguac Stormwater Diversion	2022	Yes	Yes	Yes	MI	No	Midwest Glacial Lakes Partnership	City of Battle Creek Michigan	Active	5	$75,000	$75,000	The project will improve water quality and fish habitat in Goguac Lake by eliminating stormwater additions from 34.6 acres of urban commercial and residential areas within the city, resulting in a pollutant load reduction of 54.5 pounds of phosphorus and 14,678 pounds of sediment, annually. Diversion of stormwater from this area was identified in the Watershed Management Plan as a priority for reducing phosphorus loading to Goguac Lake. The Michigan MDNR recognizes the value of Goguac Lake for its diverse fishery, recreational access to a large population in an urban center, and potential for a successful Walleye fishery.
Ecological assessment of Martin Creek watershed to reduce nutrients and sediment entering into Lake Wawasee	2022	Yes	Yes	No	IN		Midwest Glacial Lakes Partnership	Wawasee Area Conservancy Foundation	-	6	$15,000	-	This conservation assessment will identify which areas within the Martin Creek subwatershed contribute the greatest nutrient and sediment loads through collection of water samples, collection of temperature and oxygen profiles, and production of a technical report. The assessment will be paired with education and outreach program that conducts on-site meetings with farmers, students, and other stakeholders.

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Fostering Stewardship on Michigan's glacial lakes	2022	Yes	Yes	No	MI		Midwest Glacial Lakes Partnership	Huron River Watershed Council	-	7	$68,910	-	The Huron River Watershed Council (HRWC) will promote shoreland protection by residents on six lakes in the Huron River watershed that support cisco and other fish species sensitive to long-term environmental change and development. The HRWC will recruit volunteers to monitor lakes through Cooperative Lake Monitoring Program (Outcome: 6 lake ambassadors), who will help HRWC enroll property owners into Michigan Shoreline Stewards Program (Outcomes: 30 residents enrolled, 15 native plantings installed). At the end of the project HRWC will have developed a model program that other lake advocates can use throughout the Midwest Glacial Lakes area.
Macatawa Watershed Stream Habitat Assessment	2022	Yes	Yes	No	MI		Midwest Glacial Lakes Partnership	Macatawa Area Coordinating Council	-	8	$31,500	-	The Macatawa Area Coordinating Council (MACC) and partners are updating the watershed management plan for Lake Macatawa. One critical component is a current geomorphic assessment of tributaries to the lake; existing assessment from over 10 years ago is outdated based upon changing land use, hydrology and long term environmental change vulnerability. This project will update information regarding channel stability and sediment loads. This assessment will help partners identify and prioritize areas for in-stream and upland restoration projects to reduce nutrient and sediment deposition to Lake Macatawa. Local partners will integrate the results into the management plan and conduct outreach to landowners in high priority restoration areas. The MACC will also do additional general outreach through community events, newsletters, social media, and direct mail to raise awareness of stream conditions and the importance of habitat restoration.
Ohio River Basin FHP operational Support	2022	Yes	Yes	Yes	Multiple	No	Ohio River Basin Fish Habitat Partnership	U.S. Fish and Wildlife Service	Completed	1	$85,000	$85,000	These funds will be utilized to facilitate all aspects of the ORBFHP and to provide the needed guidance and oversight during all phases of the Partnership, including but not limited to soliciting project proposals, yearly and final reporting requirements, coordination of each project and steering committee activities and technical assistance as needed.
Callen Run Dam Removal	2022	Yes	Yes	Yes	PA	No	Ohio River Basin Fish Habitat Partnership	American Rivers	Completed	2	$60,000	$60,000	This project removes one barrier to fish passage and designs and removes a second barrier is that will open 12 miles of upstream habitat to eastern brook trout in Pennsylvania. Biological monitoring of the site will be conducted as 16 different species of fish occur in Callen Run below the Lower Dam and only three were found above it. This is an on the ground project as dam removal design has been completed and this project will implement that dam removal plan using ORBFHP funding while the 2nd dam with undergo design and removal. This project restores headwater and streams and small watershed, a priority habitat of the ORBFHP strategic plan.

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Eel River Recolonization	2022	Yes	Yes	Yes	IN	No	Ohio River Basin Fish Habitat Partnership	Ecosystems Connections Institute	Completed	3	$54,722	$54,722	The goal of this project is to capture the ecological response of 2 dam removals on the lower Eel River, a tributary of the Wabash River, located within a priority watershed of the ORBFHP. Once removed, over 1,100 stream miles will be accessible without a barrier to movement. This project will utilize existing infrastructure (PIT tag array and acoustic telemetry array) and the Stockdale Mill fish passageway in the Eel River along with sampling historic electrofishing sites to document the recolonization of over 40 species that are not found above the dam that will be removed. This project is the culmination of 9 years of work within the Eel River Bain to remove all fish passage barriers and assess the ecological impact. This restoration is a result of our focused watershed approach that the ORBFHP emphasizes.
Cooper Creek Hydrologic Restoration	2022	Yes	Yes	No	OH		Ohio River Basin Fish Habitat Partnership	Hamilton Soil and Water Conservation District	-	4	$153,400	-	The goal of this project is to continue to build upon the progress made within the Cooper Creek watershed with retrofitting stormwater detention basins. Currently 6 out of 10 basins have been funded, with this proposals being the largest and most impactful project to date. This project will double the service area of the basin in a highly impervious area making this the most impactful retrofit opportunity in the watershed. This work, in combinations with other retrofits, will reduce peak discharge rates for the basin during a 2-year, 24-hour design storm event, to 40% of pre-development levels reduce the frequency of bedload mobilizing flows to a frequency of twice per year on average, or less, within the 0.5-mile long reach at the top of the watershed.
Whitewater River Fish Habitat Restoration	2022	Yes	Yes	Yes	OH	No	Ohio River Basin Fish Habitat Partnership	Ohio River Foundation	Completed	5	$10,000	$0	This project will re-establish needed vegetation and erosion control the Whitewater River, a priority area for the ORBFHP. Approximately 5,000 native live stake trees and aquatic forbs will be installed along 3.3 miles of river banks of the Whitewater River in Hamilton County, OH. The area has been scouted by boat and deemed applicable for this restoration action. ORF recently completed a 6-mile live stake installation of 10,000 trees and bushes, and is well suited and experienced to perform this project. Installation will occur within 12 months of the grant award and monitoring and measurement of the project and study areas will be performed over a 5-year period.
Sauger Recruitment	2022	Yes	Yes	No	IN, OH, KY, WV, PA		Ohio River Basin Fish Habitat Partnership	West Virginia University	-	6	$77,728	-	This project will use well established statistical approaches and historic occurrence and hydrology data to assess the influence of pool-specific flow regimes on YOY production, or establishment of year class strength. This project will partner with the Ohio River Fish Management Team and state agencies to statistically relate recruitment and YCS to flow variables

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Stormwater Detention Retrofits to Preserve and Enhance Aquatic Habitat in Streams in Northern Kentucky	2022	Yes	Yes	No	KY		Ohio River Basin Fish Habitat Partnership	Sanitation District No. 1 of Northern Kentucky	-	7	$30,000	-	The goal of this project is to improve the Sanitation Districts ability to enhance hydrologic restoration by improving the districts stormwater management system. The measurable objectives for this project are to limit stream incision, protect banklines from erosion and destruction of private property and improve habitat conditions and stream ability to function during high water events.
Farmers Helping Hellbenders	2022	Yes	Yes	No	IN		Ohio River Basin Fish Habitat Partnership	The Nature Conservancy	-	8	$30,875	-	The goal of this project is to establish agricultural Best Management Practices (BMPs) for landowners in the Blue River Watershed, an established hellbender stream in southern Indiana.
Chippewa Lake	2022	Yes	Yes	No	OH		Ohio River Basin Fish Habitat Partnership	Medina Soil and Water Conservation District	-	9	$39,220	-	The goal of this project is to improve water conditions in the 344 acre Chippewa Lake, the largest natural inland lake in Ohio.
PLCI Coordination & Operational Support	2022	Yes	Yes	Yes	Multiple	No	Pacific Lamprey Conservation Initiative	Pacific States Marine Fisheries Commission	Completed	1	$85,000	$85,000	This project consists of coordination and operational support for PLCI's various activities and initiatives in support of its goal to achieve long-term persistence of Pacific Lamprey and their habitats, and support their traditional tribal cultural use throughout their historical range. Activities include but are not limited to coordinating and participating in PLCI's various committees and workgroups (Policy Committee, Conservation Team, Steering Committee, Lamprey Technical Workgroup (and its subgroups), and Regional Management Units etc.), planning and implementation of in-person and virtual events (Lamprey Information Exchanges, workshops/trainings etc.) and outreach in support of partnership, and coordination of annual funding opportunities.
Lamprey Distribution and Abundance in Urban Streams, Olympic Peninsula	2022	Yes	Yes	Yes	WA	Yes	Pacific Lamprey Conservation Initiative	Lower Elwha Klallam Tribe	Completed	1	$81,406	$81,406	The Lower Elwha Klallam Tribe will conduct larval lamprey (ammocoete) electrofishing surveys in urban streams to gain information on lamprey distribution and behavior in order to inform management decisions which will increase resilience of ecosystem restoration. Project objectives are to obtain a representative sample of larval lamprey distribution in urban streams in the north coast of the Olympic Peninsula to aid in refining distribution maps in the Washington Coast and Puget Sound RMUs, and increase public awareness of lamprey existing in their local streams and increase understanding of the connection lamprey have to popular salmon fisheries in the area. Lower Elwha Tribe's field technician and project biologist will work with the Tribes Youth Program to provide education and opportunities to tribal youth interns. This project targets Pacific Lamprey (Entosphenus tridentatus) which is both an FHP priority species and Species of Greatest Conservation Need.

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Finn Rock Reach Floodplain Habitat Restoration	2022	Yes	Yes	Yes	OR	No	Pacific Lamprey Conservation Initiative	McKenzie River Trust	Completed	2	$25,000	$25,000	This project will provide floodplain reconnection and habitat restoration to 85 acres on a side channel of the McKenzie River, and will address decreased habitat complexity caused by the depletion of LWD and lack of lateral floodplain connectivity.
Coho Creek Fish Passage Project	2022	Yes	Yes	No	OR	No	Pacific Lamprey Conservation Initiative	Necanicum Watershed Council	-	3	$22,880	-	By remediating three culverts, which are barriers under certain flow conditions and impair natural channel processes to Pacific Lamprey, ESA listed Coho salmon, Chinook salmon, chum salmon, winter steelhead and cutthroat trout, this project will improve access to 1.4 miles of stream habitat and restore full tidal exchange to the site's tidally influenced freshwater stream-wetland complex.
eDNA & Lamprey Bile Acids Monitoring to Assess the Impacts of Adult Translocation the Upper Columbia Basin Above Wells Dam	2022	Yes	Yes	No	WA	Yes	Pacific Lamprey Conservation Initiative	Yakama Nation Fisheries	-	4	$22,084	-	This project led by Yakama Nation Fisheries will measure Pacific Lamprey eDNA presence/absence as well as quantities/concentrations, as well as a cross comparison of eDNA and lamprey bile acids data using a subset of sample sites to evaluate their association and potential relationship. Data from this effort will help inform management decisions as to whether the multi-year adult translocation program currently underway is helping achieve its original goal of increasing Pacific Lamprey signals (via concentrations of eDNA and migratory pheromones) which are important not only for passage evaluations, but also for resorting self-sustaining populations upriver.
PMEP Operations	2022	Yes	Yes	Yes	Multiple	No	Pacific Marine and Estuarine Fish Habitat Partnership	Pacific States Marine Fisheries Commission	Completed	1	$85,000	$85,000	Through its operations, PMEP supports on-the-ground restoration and assessment projects designed to protect and restore estuary and nearshore habitats and restore connectivity between habitats.
Sequalitchew Creek Estuary Restoration Design Alternatives	2022	Yes	Yes	Yes	WA	No	Pacific Marine and Estuarine Fish Habitat Partnership	South Puget Sound Salmon Enhancement Group	Completed	2	$41,795	$41,795	The project goals are to complete a comprehensive feasibility study of Sequalitchew Creek estuary for restoration and produce a suite of design alternatives to determine the best restoration approach to benefit non-natal Chinook salmon and steelhead, while recovering Sequalitchew Creek Coho and chum runs. These practices include, but are not limited to; barrier replacement, nearshore armor removal, eelgrass and marsh restoration, estuary habitat restoration. SPSSEG and partners will perform biological, hydrological, geotechnical assessments, and initial cultural resource studies to further salmon recovery goals and serve as baseline data to support successful restoration and monitoring.

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Polnell Point Armor Removal and Restoration	2022	Yes	Yes	No	WA	No	Pacific Marine and Estuarine Fish Habitat Partnership	Oregon Department of Fish and Wildlife	-	3	$50,000	-	The Polnell Point Armor Removal project will remove direct burial of mid to upper intertidal and backshore habitat along 1,400 linear feet of a tombolo. Restoration actions will increase the quantity and quality of available forage fish spawning habitat and improve nearshore habitat conditions for migrating juvenile salmonids exiting the Skagit River. Restored shallow water habitat will also improve survival and avoidance of predators for foraging salmonids and other species reliant on the nearshore.
Aiston Preserve Nearshore Restoration	2022	Yes	Yes	Yes	WA	No	Pacific Marine and Estuarine Fish Habitat Partnership	Lummi Island Heritage Trust	Completed	4	$50,000	$50,000	This project will restore nearshore processes and habitat connectivity along 500LF of shoreline. Remove 400LF of armor and fill to reestablish shallow water habitat. Remove 1,000CY of fill and armor to create a pocket beach and 40CY of angular gravel from an existing pocket beach to support forage fish. Scarify 2 acres of impervious surface to plant native vegetation and create a riparian zone providing shade, structure, and stability to the shoreline. Manage stormwater to deliver clean, cold runoff to the nearshore. Create a fully connected watershed from forested uplands to the nearshore including pocket beaches and expanded eelgrass and kelp beds.
Eelgrass restoration by seeding in WA & OR with rapid assessment protocol for site suitability	2022	Yes	Yes	No	WA , OR		Pacific Marine and Estuarine Fish Habitat Partnership	South Slough National Estuarine Research Reserve, Friday Harbor Laboratories, Padilla Bay National Estuarine Research Reserve, Washington Department of Natural Resources	-	5	$49,985	-	This project initiates eelgrass restoration seeding in Westcott Bay, WA, and Coos Bay, OR. We will deploy eelgrass seed buoys, to complement transplanting adult plants. Successful seed buoy deployment will create eelgrass patches to connect eelgrass meadow fragments throughout the ~54 acres of restoration area encompassing both estuaries. Site suitability assessment will guide mitigation of persistent stressors and improve effectiveness of further restoration. This project addresses concerns identified in a recent PMEP-Nature Conservancy Report, as well as Goals 1 & 3 of PMEP's Strategic Plan, and occurs in 2 priority smaller estuarine systems: Westcott Bay, WA, and Coos estuary, OR.

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Zangle Cove Restoration	2022	Yes	Yes	Yes	WA	No	Pacific Marine and Estuarine Fish Habitat Partnership	Thurston Conservation District	Completed	6	$40,000	$40,000	This project removes 195 feet of residential marine waterfront armor on the small embayment of Zangle Cove in South Puget Sound. Native riparian vegetation will replace half an acre of invasive plants to restore nearshore connectivity. The project restores the opportunity for coastal bluff erosion at the embayment mouth to deposit sediment, improving habitat conditions along 400 linear feet of embayment nearshore. At least 71% of forage fish habitat in this drift cell is armored and the project removes 195 feet of upper beach fill and gabion wall to restore backshore conditions suitable for spawning habitat. The project will serve as a demonstration site to educate others and will host tours for other private landowners.
Reservoir Fisheries Habitat Partnership Coordination and Operational Support	2022	Yes	Yes	Yes	National	No	Reservoir Fisheries Habitat Partnership	Reservoir Fisheries Habitat Partnership	Completed	1	$85,000	$85,000	RFHP seeks to engage broad-based partners in restoring and enhancing aquatic habitat as well as promoting awareness of reservoir habitat issues and engaging local citizens in restoration efforts. Operational support is vital to maintain RFHP's efforts to improve fish habitat, support broad-based partnerships, and engage local citizens, state resource agencies, and industry in protecting and restoring reservoir fisheries habitat across the United States. For more information about RFHP and its work, visit www.friendsofreservoirs.com. Coordination of existing reservoir fisheries habitat projects is essential, not only to ensure that projects meet their stated objectives, but also to strengthen the existing partnerships that RFHP has established to date. FHPs lacking a Coordinator to carry out day-to-day operations tend to stagnate because most individuals involved in FHP activities are volunteers with other full-time job duties. FWS funding is essential for RFHP to keep their Coordinator position in place to grow the Partnership. Operational project funding will allow RFHP to work with over 130 partners to conduct and/or promote reservoir habitat restoration. RFHP will also disseminate information about habitat restoration work with its partners to fisheries professionals. Updated outreach materials will help FOR provide the most up-to-date science-based restoration information to the public about reservoir habitat conditions and share information about the RFHPs conservation activities to improve habitat conditions in reservoir systems. RFHP's partner base will be expanded.

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Water Quality Structures at Dam Site WP-1	2022	Yes	Yes	Yes	NE	No	Reservoir Fisheries Habitat Partnership	Papio-Missouri River Natural Resources District	Active	2	$75,000	$75,000	The Omaha metro area lies within the Papillion Creek watershed which covers approximately 400 square miles of drainage. The Papio-Missouri River NRD has developed a watershed management plan. Reservoir WP-1, lies within this watershed and is part of the management plan. The goal of this project is to protect water quality in a newly built reservoir, WP-1, using best management practices that reduce sediment input and excessive nutrients via construction of a sediment retention structure and shoreline protection measures. A 2.5-acre sediment basin will be constructed by creating a 500 ft. long berm with a box drop culvert by November of 2023. Within the reservoir, 2,000 ft. of shoreline protection (rip-rap) and 8 breakwater structures (modified for angler access) will be constructed by November 2023 to reduce in-lake erosion, excavation to provide a variety of depths for fish will take place, and a paddlecraft launch will be installed. Trails and interpretive signage will be placed to engage users on the benefits of healthy reservoir systems. Retention basins manage watershed borne sediment and nutrients before entrainment into the reservoir prolonging the ecological function and biological health of the reservoir. Long-term environmental changes are expected to change duration, frequency, and magnitude of precipitation events around the world. In the temperate plains, extreme rainfall and flooding events are expected to increase, causing erosion, declining water quality, and negative impacts on transportation, agriculture, human health and infrastructure. The sediment basin, modified breakwaters and shoreline stabilization measures proposed in this project will protect this reservoir from the negative impairments of long-term environmental change.

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Raystown Lake Habitat Barge Project	2022	Yes	Yes	Yes	PA	No	Reservoir Fisheries Habitat Partnership	Friends of Raystown	Completed	3	$75,000	$75,000	Raystown Lake (8,300 acres) is a top boating destination in PA but is severely impacted by boat traffic from the 1.6 million annual visitors. A recent boating capacity study confirmed the lake has reached and exceeded its boating capacity, thus the pressure on the shoreline from boat generated wave action, in addition to prevailing wind action, results in severe shoreline erosion. The project proposes to reshape and armor eroded shorelines using proven techniques (Stone-Toe Revetments) at high-use areas on Raystown. Structural habitat will be incorporated into the armored shoreline (root wads) and volunteer-constructed structure will be placed offshore to provide both needed structural habitat and bank angler access to improved fishing locations. Heavy equipment will be used at locations were access is possible and a recently constructed large-capacity habitat barge (capable of holding 20 tons of material and equipment) will be used to deliver and place structure at remote locations. PFBC has developed a detailed habitat management plan for Raystown Lake. In addition to previous strides made to restore degraded habitat, this project proposed to reshape and armor more than 2100 feet of shoreline thereby preventing bank erosion resulting in localized improvements in water quality and littoral habitat. Various sized rock (8400 tons) will be used to stabilize the shoreline and create 65 rock humps for offshore habitat. Root wads (40) incorporated into the restored shorelines will add variety to the restored habitat sites. Constructed structural habitat (5 gravel nesting structures), vertical post clusters (48), and 24 porcupine cribs will add to the variety of the newly constructed habitat. A rigorous outreach plan will further augment public use at one of USACE's highest use projects in the nation.

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Cochiti Lake Habitat Restoration	2022	Yes	Yes	Yes	NM	Yes	Reservoir Fisheries Habitat Partnership	Sun Country Outdoors	Completed	4	$50,000	$50,000	Cochiti Reservoir (11,147 surface acres) is in northcentral New Mexico within 50 miles of both Albuquerque and Santa Fe. Habitat degradation is largely associated with sedimentation, lack of woody and native vegetative cover and invasive aquatic vegetation (Eurasian watermilfoil, EWM). Cochiti is also subject to Harmful Algal Blooms. Recent wildfires and resultant runoff have exacerbated the sedimentation issues creating extensive mudflats and destroying Centrarchid nesting habitat. Addressing the sedimentation issues is beyond the scope of project funding. USACE will use herbicides to treat EWM and project funds will be used to propagate and plant native vegetation following EWM treatment. Project funds will also be used to purchase materials for, construct and deploy structural habitat. Using BMPs recommended by RFHP's Reservoir Habitat Management Manual and the recommendations from the WOTS assessment, approximately 3.37 miles of shoreline will be revegetated with aquatic natives grown on site and pole plantings of shoreline plants. Artificial fish habitat will be placed by design including 14 concrete culvert pipe fish habitat structures, 150 American Fish Tree 4 ft tree plastic fish habitat structures (or equivalent), 40-3.5 ft tall concrete reef ball modules, and 100 fish cribs with integrated spawning mats for gizzard shad and yellow perch. A combination of outplantings of containerized plants and seeding (using a founder colony approach) will be implemented on multiple shorelines covering approximately 3.37 miles in length.

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Somerset Lake Habitat Improvement	2022	Yes	Yes	Yes	PA	No	Reservoir Fisheries Habitat Partnership	Somerset Lake Action Committee	Completed	5	$70,000	$40,000	Somerset Lake is a 253-acre impoundment owned by the Commonwealth of Pennsylvania. It is managed by the Fish and Boat Commission for public fishing and recreation. Somerset Lake has been a staple of area recreation for the past for sixty years. The lake was drained in October 2017 for dam repairs slated for summer 2020. Agricultural in the watershed is a major contributor to sedimentation and high turbidity. The shallow nature of the basin provides little deep-water refuge. The project will excavate the lake basin to create berms and restore eroded shorelines. Structure will be placed around the excavated areas to provide needed cover. The project will be excavating approximately 600,000 square feet of substrate. Approximately 4,000 feet of riparian area will be stabilized. Project funds will be used to excavate the lake basin to create forebays to reduce sediment inputs and purchase materials for and construct and place approximately 2,000 nesting, nursery, refuge, and spawning habitat structures. The Commonwealth of Pennsylvania has been investing millions of dollars in upgrading high-risk dams across the state. Partners have been taking advantage of the drawdowns to restore degraded aquatic habitat in these systems. Eroded banks will be excavated, and the fill used to form peninsulas thereby introducing pockets of deep and shallow water. A variety of habitat structures (more than 200 total) will be placed around the excavated areas providing cover needed for multiple life history stages of multiple fish species. The project will be excavating approximately 600,000 square feet of substrate. Approximately 4,000 feet of riparian area will be stabilized.

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Lake Houston Shoreline Vegetation and Outreach Project	2022	Yes	Yes	No	TX		Reservoir Fisheries Habitat Partnership	Lake Houston Sports and Recreation Foundation	-	6	$28,800	-	Lake Houston is a coastal plains reservoir with an increasingly urbanized watershed, creating erosion and resulting siltation an issue for our lake. As with many man-made reservoirs, there is little natural riparian or aquatic vegetation which helps stabilizes banks, improves water quality, and provides fish and wildlife habitat. The Lake Houston Sports and Recreation Foundation had an established native aquatic vegetation nursery and successfully introduced native plants to the littoral zone of Lake Houston. Hurricane Harvey destroyed the nursery. Funding from this project will be used to rebuild the nursery, purchase appropriate aquatic plants to propagate in the nursery and begin the reestablishment process. We envision this to be a 5-year process with the introduction of 3,000 plants in years 1 & 2, followed by 1000 plants in each years 3-5. Native aquatic vegetation is often limiting littoral habitat in many southern reservoirs. Native aquatic plantings which are protected from herbivory have been known to create “founder colonies” that provide quality nursery and foraging habitat. Aquatic vegetation beds dampen wave action on exposed shorelines and reduce shoreline erosion which, in turn, curbs mudflat development and reduces turbidity. Outreach efforts are aimed at informing the public of the ecological and economic importance of aquatic habitat restoration efforts. Houston is a rapidly expanding metropolitan area and outreach efforts aimed at ecologically sensitive development is critical to keeping Lake Houston an outdoor destination for its citizens.
Six Mile Habitat Remediation Project	2022	Yes	Yes	No	NM		Reservoir Fisheries Habitat Partnership	Sun Country Outdoors	-	7	$30,000	-	Six Mile Dam lies on the Pecos River 4.5 miles downstream from Carlsbad, NM. Water-based recreational opportunities are extremely limited in southeast New Mexico. The City of Carlsbad and BLM have requested assistance from the Project Leader and RFHP in developing a plan that includes to improve recreational opportunities including trails, kayak and handicapped fishing access, bird/wildlife observation and fishery habitat improvements. Funding from this grant would focus on the habitat components which include 300 sites with an average of 20 discrete artificial structures and 1 floating vegetation mat, 20 herbivore exclosures with native vegetation plantings, 50 native tree plantings along the shoreline to enhance shading. The City of Carlsbad will remove sediment from 200 feet of back channel and dredge an area for kayak access and handicapped accessible fishing. Signage and other shoreline amenities will be provided by BLM. This project will restore and enhance the fish habitat, water quality and angler access to a 30-acre urban reservoir and initiate creation of a viable urban aquatic recreation resource out of a currently largely in accessible site in an area that is in desperate need of aquatic recreational opportunities.

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Cordell Hull Lake Fisheries Habitat Improvement	2022	Yes	Yes	No	TN		Reservoir Fisheries Habitat Partnership	US Army Corps of Engineers	-	8	$12,000	-	Anglers are the largest user-group on Cordell Hull Lake, TN but land-based recreation (hiking, camping, picnicking and horseback riding) are major components of the total recreational value that Cordell Hull adds to the local economy. Defeated Creek is the hub of activity on Cordell Hull Lake and is a top-ten revenue generating USACE campground nationwide with over 150,000 visitors annually. Fisheries habitat and resulting angling quality has degraded in and around this high-use area. This project proposes to reshape and armor 400 feet of eroded shoreline. The addition of structural habitat (150 structures) will provide needed cover. These structures will be placed to enhance the experience of shore-based anglers. Water-based recreation is a cornerstone of the economic value of many of the large impoundments across the country. Cordell Hull, like many of our nation's reservoirs, is approaching late middle age and habitat degradation consummate with aging reservoirs is beginning to have an impact on that value. Habitat restoration, particularly at high-use areas such as Defeated Creek, coupled with an aggressive outreach effort, not only highlight the benefit of restoration efforts to local users but, hopefully that message will resonate beyond Cordell Hull. USACE hosts an "Environmental Awareness Day" at Defeated Creek that brings local school groups to the site that will not only highlight NFHP's efforts but help raise awareness of the ecological importance/needs of our aquatic resources.

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McFarland Lake Restoration	2022	Yes	Yes	No	IA		Reservoir Fisheries Habitat Partnership	Story County	-	9	$75,000	-	McFarland Lake (constructed in 1947) lies within a county park just outside of Ames, IA. Park nature trails receive extensive public use, but fisheries habitat and resultant public use need revival. Sedimentation and nutrient loading must be addressed before habitat and fisheries improvements are to be realized. These impairments are the focus of the existing Watershed Management Plan. The Plan calls for removing 60,000 yd3 of sediment to deepen the lake basin and remove phosphorous and to stabilize 1300 linear feet of shoreline. Woody structure will be added to the basin after sediment removal. The riparian area around the lake will have nonnative trees and shrubs removed. Changes in public use will be monitored via creel surveys and trail counters. Visitation will be used in existing economic models as a tool to continue to apply for grants to upgrade public facilities in the park. Sedimentation and nutrient loading are the primary reservoir fisheries impairments in the Ag Belt. These impairments lead to declining fisheries and degrade the aesthetic value of the impacted resource which ultimately results in declining public use and loss of economic value. Rectifying these impairments are very costly and local communities need financial assistance from multiple sources to address these issues. Project objectives/methods will remove 60,000 yd3 initially and watershed management BMPs will prevent 43.4 tons of sediment input annually. Total phosphorous input will be reduced by 71%. A floating fish dock will be installed, and improved trail amenities will improve angler and public access. An aesthetically pleasing body of water will improve the outdoor recreational experience of the citizens of Ames, IA.

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Mark Twain Lake Fisheries Habitat Development Project	2022	Yes	Yes	No	MO		Reservoir Fisheries Habitat Partnership	Missouri Department of Conservation	-	10	$12,000	-	The public lands and waters of Mark Twain Lake occupy 54,741 acres within Ralls and Monroe County, Missouri. At normal pool, the reservoir provides 18,600 acres of warm water fisheries habitat. The associated watershed is comprised of 2,318 square miles of lands primarily in agricultural production. Though Mark Twain Lake has sustained a viable fish community since its completion in 1984, the decline in structural littoral habitat and the limited shoreline access is contributing to declines in recreational opportunities. This project will address the loss of structural habitat by restoring ~10 acres of underwater habitat at 5 sites; create appealing shoreline access to the management unit; and encourage increased recreational opportunities. The structures will be placed at varying depths to provide habitat for the seasonal movement of fishes. The project will develop shoreline access to the restoration site that will appeal to a broad demographic spectrum, including families, youth, senior citizens, and novice anglers. Informing the public of the need for and value of aquatic habitat restoration and the beneficial effects of these efforts on recreational opportunities is a needed outcome of all NFHP projects. This project will address the loss of structural habitat, create appealing shoreline access at several sites, and encourage increased recreational opportunities. This project proposes the installation of artificial structural components at five locations to restore approximately 10 acres of underwater fisheries habitat. The structures will be placed at differing elevations in the basin of the reservoir in a pattern to provide for stability and integrity of development and provide habitat for the seasonal movement of fishes. Furthermore, this project proposes the development of direct shoreline access to the restoration sites which will appeal to a broad demographic spectrum, including families, youth, senior citizens, and novice anglers.

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Modification of Eurasian Watermilfoil Beds for Fishery Benefit Pilot Project	2022	Yes	Yes	No	MT		Reservoir Fisheries Habitat Partnership	Montana Fish Wildlife and Parks	-	11	$33,000	-	Noxon Rapids Reservoir was created by the Noxon Rapids Dam, which was completed in 1959 and is operated by Avista Utilities. The reservoir is on the Clark Fork River in Sanders County near the city of Trout Creek, Montana. In 2015, 26,000 angler days were recorded on Noxon Reservoir, ranking it third in MFWP's Region 1 for angling pressure. Eurasian watermilfoil (EWM) was first confirmed in Noxon Reservoir in 2007. In 2008, the Sanders County Commissioners established the Sanders County Aquatic Invasive Plants Task Force to develop and implement an integrated weed management approach to contain and manage infestations of EWM. Historical herbicide treatments have been replaced by a more integrated control approach, based largely on public input. Dense EWM beds have restricted fish foraging ability, caused low dissolved oxygen conditions and restricted angler access. This project is intended to test the feasibility of using mechanical removal of EWM as part of the integrated invasive plant management plan. A mechanical harvester (contracted over two seasons) will be used to create openings in two beds of milfoil and follow up with extensive monitoring of amount of EWM removed, the abundance and condition of fish, as well as angling success. Project goals are to reduce EWM bed size 40–60%, resulting in a decrease of 15–20 acres of EWM. The boat lanes will increase edge habitat for targeted sport fishes (Largemouth and Smallmouth bass) by 217,800–290,400 linear feet. Fish abundance and condition, along with angler use and catch, will be sampled before and after EWM removal. Upon completion and evaluation of this pilot project recommendations will be made as to whether to include mechanical harvesting in the integrated invasive plan management plans for Noxon Reservoir and other similar systems infested with EWM.

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Canyon/ Saguaro Lake Sportfish Habitat Improvement Project	2022	Yes	Yes	No	AZ		Reservoir Fisheries Habitat Partnership	Arizona Game and Fish Department	-	12	$40,000	-	Saguaro Lake (1264 surface acres) provides an estimated 288,179 angler use days per year, the fourth highest angler use days in the state of Arizona and supports nearly $15 million in annual salaries and wages. Canyon is a smaller reservoir (950 acres) and is located on the Tonto National Forest. Both reservoirs have lost the natural woody cover due to the reservoir aging process and this project will restore approximately 20 acres of woody structure in each reservoir. Structure enhancements include “Georgia Cubes” (800), wood and gravel spawning boxes (100), catfish spawning boxes (100). Christmas trees will be gathered from local sources (unknown quantity) that will provide additional (if only short-term woody cover) and reduce the demand on landfills. Georgia Cubes have been shown to be excellent surfaces for periphyton colonization so localized improvements in primary productivity are expected. Fish use of the habitat enhancement sites will be monitored using angler surveys, Sound Metrics ARIS Sonar and visual inspection via SCUBA. Outreach efforts include social media, speaking events and press releases. Structure enhancement at Canyon and Saguaro Lakes is aimed at maintaining the quality of bass angling and to reverse declining trends in fish population sampling. Our goal is to achieve an 80% angler satisfaction rating. Bass and catfish recruitment will be enhanced via improved spawning habitat and increased structure should provide additional nursery cover for juvenile fishes and resting and ambush cover for adult fishes. Public involvement in the project will enhance local interest in habitat restoration efforts and youth involvement will help instill a “conservation ethic” for upcoming generations of aquatic resource users.

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Evaluation of Fish Habitat Structures in Missouri Reservoirs	2022	Yes	Yes	No	MO		Reservoir Fisheries Habitat Partnership	Missouri Department of Conservation	-	13	$10,000	-	An extensive National Fish Habitat Initiative project was completed on Table Rock Lake, MO, by the National Fish and Wildlife Foundation, Bass Pro Shops, and the Missouri Department of Conservation. This effort was named a 2012 NFHP Waters to Watch. Fish habitat structures provide cover for various fish species while simultaneously creating fishing opportunities by attracting game fish to these locations. This is an important management tool that helps agency staff maintain sustainable fish populations in reservoirs and provide the opportunity for anglers to harvest fish at biologically and socially acceptable levels. These programs are costly in both operational funding and staffing and methods need to be refined to optimize structure placement. This proposal requests funding to purchase two Garmin Livescopes for use in evaluating structure longevity, efficacy of location and structure pattern, and seasonal fish use. Agency staff will monitor angler use. Woody structure (brush pile) placement is a popular fisheries management activity. Comparisons of structure type, placement location, fish use, population structure improvements and cost effectiveness evaluations are lacking in the scientific literature. Woody structure enhancement is a common NFHP-funding request through the Reservoir Fisheries Habitat Partnership. Evaluation, as proposed in this project, would not only benefit agency staff in prioritizing management activities but help RFHP in evaluating future project proposals.

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Structural Habitat Enhancement for Kansas Reservoir Fish Habitat Partner Lakes thru Community outreach.	2022	Yes	Yes	No	KS		Reservoir Fisheries Habitat Partnership	Kansas BASS Nation	-	14	$40,000	-	Lack of structural habitat limits fish community structure and angler success in many of the smaller reservoirs in rural communities in Kansas. Kansas Wildlife Parks and Tourism has developed a Community Fishing Program to enhance recreational opportunities in these systems. We propose to demonstrate the fisheries, recreational and economic benefit of restoring structural habitat to the Community leaders associated with this program. We will use commercially available artificial structure as demonstration projects to encourage our Community Fishing Program partners (30 reservoirs in 24 Communities) to expand the program using Community funding. Angler use will be monitored through creel surveys to determine use before and after structure enhancement. Potential increased use would help encourage Communities to expand the program on their individual Community Lakes. Kansas Wildlife, Parks and Tourism has developed a Community Fishing Program to develop recreational opportunities in numerous smaller community-owned reservoirs. These older reservoirs lack structural habitat that limits both fish population structure and angling success. By providing needed cover we hope to demonstrate to the community leaders the importance of investing in their local lake to enhance the quality of life of their residents and increase the economic benefits of a community-owned aquatic resource.
SARP Operations	2022	Yes	Yes	Yes	Multiple	No	Southeast Aquatic Resources Partnership	Southeastern Association of Fish and Wildlife Agencies	Completed	1	$85,000	$85,000	A long-term goal of SARP is to implement the southeast regional and national aquatic habitat plans through collective management and facilitation at the regional level. Specifically, SARP will: 1) work with various programs of USFWS and other agencies to complete an update to SARP Operations and the formation of Committees around SARP's major Programs based on the SAHP objectives, 2) Continue development of a comprehensive GIS database of aquatic habitat conditions, conservation activities, in the region including information on aquatic barriers, riparian assessment, habitat condition ranks based on multi-decision criteria and targeted threats assessment in priority watershed, 3) Undergo a 'planning' process to support business development including an outreach strategy, 4) build alliances across the region focused specifically on aquatic barrier removal, 5) continue to develop and support Programs centered on priority objectives identified by state and federal partners.

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Conservation through Agriculture: Streambank and Riparian Enhancement in the Tombigbee Watershed	2022	Yes	Yes	No	MS		Southeast Aquatic Resources Partnership	Southeastern Association of Fish and Wildlife Agencies	-	2	$50,000	-	The project will use the Action Assessment created by SARP for recovery of Frecklebelly madtom and other surrogate species to identify high priority restoration projects allowing for the repatriation of the species. Multiple sites have been identified using this assessment with one site having landowner contact and interest. Restoration methods will focus on livestock exclusion practices for riparian and streambank health on 1000 linear feet and 2 acres of riparian habitat that will improve instream habitat and water quality as well as hydrologic resiliency. Exclusion/cross-fencing will remove livestock from environmentally sensitive areas and allow for rotational management. Wells and water facilities will be installed in upland locations and low water crossings will control access within sensitive areas.
Protecting the Remaining Shoal Bass in the Middle Chattahoochee through Best Management Practices	2022	Yes	Yes	No	GA		Southeast Aquatic Resources Partnership	Habersham County, Georgia	-	3	$50,000	-	Partners including NRCS, SARP, and UGA Extension Service will identify and facilitate farmer contacts and assist with project design throughout the project to restore 2000 linear feet of stream and 5 acres of riparian habitat. These partners will work together to assist landowners already identified to protect and restore riparian zones through agricultural BMPs. Additionally, this project will be used as a demonstration project to promote effective agricultural management practices geared toward conservation and protection of the watershed allowing regional partners to scale up conservation practices in the area. These conservation practices will serve to protect these key aquatic processes, leaving a more resilient watershed for species including shoal bass, Chattahoochee bass, highscale shiner, and Bluestripe Shiner.
Streambank and Riparian Enhancement for Shoal Bass Protections in the Upper Chattahoochee Watershed	2022	Yes	Yes	Yes	GA	No	Southeast Aquatic Resources Partnership	University of Georgia Coop Extension Service	-	4	$100,000	$119,972	The project will use agricultural Best Management Practices (BMPs) to reduce sedimentation and restore riparian zone function. These practices will focus on livestock exclusion through cross fencing and exclusion fencing as well as installation of alternative water sources for cattle. Additionally, low water crossings will be installed along tributaries and wetlands to allow access to adjacent fields while protecting sensitive areas through controlled crossing. The project is one of many in a larger initiative, and will add an additional 2000 linear feet and 2 acres of riparian zone restored as well as over 100 acres of upland habitat properly managed.

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Improving Aquatic Habitat and reducing sedimentation through farmer partnership in the Chipola River	2022	Yes	Yes	No	FL		Southeast Aquatic Resources Partnership	Florida Department of Agriculture and Consumer Services	-	5	$125,000	-	Partners including the Jackson County Soil and Water Conservation District and the Florida Department of Agriculture and Consumer Services will partner with SARP to install cover crop species on over 2000 acres. Cover crops have been proven to increase water retention capacity of soils and reduce nutrient and sediment runoff, which ultimately leads to an increase in ecological function and resiliency. These conservation practices will serve to protect these key aquatic processes, leaving a more resilient watershed, and provide protection to sensitive and critical habitats for a host of endemic and listed species. The Chipola River is Florida's only limestone substrate river, creating a unique shoal habitat for a host of endemic and listed species.
Bartram's Redeye Bass: Conservation of Habitat through Streambank/Riparian Restoration	2022	Yes	Yes	No	SC		Southeast Aquatic Resources Partnership	Southeastern Association of Fish and Wildlife Agencies	-	6	$50,000	-	Streambank and riparian zone protections are vital to maintaining healthy habitats and biological variety. Addressing instream habitat conditions through implementation of BMPs will improve water quality and reduce sedimentation, providing extended benefits downstream by increasing resource resiliency. A recently completed Action Assessment has provided a roadmap to guide conservation effort leading to this project that will restore 500 linear feet of stream and protect/restore 1 acre of riparian habitat and install one low water crossing to benefit Redeye bass (Bartram's) populations where incompatible land management practices have degraded aquatic habitat within the upper Savannah River.
Dune Restoration on Elmer's Island Wildlife Refuge	2022	Yes	Yes	No	LA		Southeast Aquatic Resources Partnership	Louisiana Department of Fish and Wildlife	-	7	$60,023	-	In 2016, Elmer's Island Refuge was part of a larger restoration project in LA restoring 489 acres of beach and dune habitat on over 7 miles of beach through the installation of dune fences and planting of native grasses. In 2020, Hurricane Zeta washed away the dune fences and dunes. This project aims to restore that dune habitat through the re-installation of dune fencing on approximately 0.5 miles of beach habitat with native plants and grasses planted through volunteer efforts in partnership with Louisiana Department of Wildlife and Fisheries and Nicholls State University Foundation. This project would protect back bay areas and create habitat for both fish and bird species while providing access to shore fishing for recreational anglers. Other activities such as bird watching, outdoor education programs, university research and other recreational activities are very population uses for Elmer's Island and dependent upon dune habitats and a functioning ecosystem.

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Innovative Approaches to Living Shoreline Restoration in the Indian River Lagoon	2022	Yes	Yes	No	FL		Southeast Aquatic Resources Partnership	Marine Resource Council	-	8	$50,000	-	This project will expand on sustainable and innovative approaches to native living shoreline restoration, using coquina breakwater construction to protect mangrove planted shorelines and create nearshore reefs for aquatic habitat and shellfish colonization. Nearshore coquina breakwater reefs will be installed along 200 linear feet to reduce wave energy and fetch along the shoreline and allow for the colonization of filter-feeders organisms, and mangroves will be replanted behind these reefs for living shoreline construction, reducing erosion, absorbing nutrients, and creating habitat for a host of aquatic species. This project will provide numerous benefits while serving as an exploration and educational platform utilized during 8 weeks of summer camp each year in addition to field trips and guided tours.
SEAKFHP Coordination and Operational Support	2022	Yes	Yes	Yes	AK	No	Southeast Alaska Fish Habitat Partnership	Trout Unlimited	Completed	1	$85,000	$85,000	Future NFHP operational funds will be used to support the coordination of the partnership and provideservices to partners though convening and facilitating information sharing opportunities, provisioning outreach to potential partners and supporters, fostering collaborative engagement of partners to meet partnership strategic goals and objectives, implement an RFP process for the partnership, and track outcomes and impacts of the partnership's activities. The SEAKFHP Steering Committee will work to refine its process for identifying and ranking potential regional assessment, protection and restoration projects now that SEAKFHP is eligible for NFHP project funding. Our first pre-proposal process went well, we received 4 robust proposals. We used this first experience to gage interest from partners and look to improve our process in the future. Additionally, SEAKFHP Partners plan to initiate a non-federal match conservation funding endowment to help partners apply to habitat protection and restoration grant opportunities.
Collaborative Stream Restoration in Hoonah, Alaska (Westport Humpback Creek)	2022	Yes	Yes	Yes	AK	No	Southeast Alaska Fish Habitat Partnership	Hoonah Native Forest Partnership	Completed	2	$69,721	$69,721	The Hoonah Indian Association is a member of the Hoonah Native Forest Partnership (HNFP). Through the partnership they have trained a local workforce to implement stream restoration. This project will utilize this workforce to restore ~180 meters of stream in the Humpback Creek watershed that is not functioning properly and has a downward trend in function. Past timber harvest along the riparian area has reduced the number of trees available for instream wood that is important to the function of the stream, the condition for fish habitats and the resilience to long-term environmental changes. The restoration will enhance channel complexity increasing spawning and rearing habitat for coho, chum, and pink salmon. The project will also design a new fish passage structure at the site.

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Engaging Tribal and Community Partners in Salmon Habitat Restoration in the Margaret Creek Watershed, Tongass National Forest	2022	Yes	Yes	Yes	AK	Yes	Southeast Alaska Fish Habitat Partnership	Ketchikan Indian Community	Completed	3	$69,482	$69,482	The Ketchikan Indian Community (KIC), Southeast Alaska Watershed Coalition (SAWC), and US Forest Service (FS) are partnering to restore habitat for four species of salmon, trout, and char in Margaret Creek on the Tongass National Forest, Southeast Alaska. This project will restore fish habitat by constructing log jams in the channel and thin floodplain forest to accelerate recovery of old-growth conditions, while at the same time building an important partnership between agency and community interests that will foster watershed stewardship. This proposal will build on the broader Margaret Creek Restoration Project by enabling KIC to run a tribal work crew that will conduct stream restoration and riparian forest enhancement.
Restoring Salmon Habitat in Halfmile Creek on Tàan (Prince of Wales Island, AK)	2022	Yes	Yes	No	AK	No	Southeast Alaska Fish Habitat Partnership	US Forest Service	-	2	$38,027	-	The Halfmile Creek Salmon Habitat Restoration Project will place up to 6 large wood structures in a 1,500-foot-long degraded reach of Halfmile Creek, improving habitat for coho, chum and pink salmon, steelhead and trout species. It will protect a cemetery access road from flooding and associated erosion. This project builds upon a 20-year long effort by the U.S. Forest Service and various partners (Nature Conservancy, Hollis Community Council, Trout Unlimited, and others) to improve salmon habitat on the eastern side of Prince of Wales Island yielding compounded benefits of improved fish abundance for enhanced salmon viewing and recreational and subsistence fishing opportunities in nearby marine waters. An interpretive sign that describes the important role of large wood in maintaining salmon habitat will be installed at the site.
Trout Unlimited Fish Habitat Mapping Project	2022	Yes	Yes	No	AK	No	Southeast Alaska Fish Habitat Partnership	Trout Unlimited	-	2	$49,272	-	This project will expand the State of Alaska's Anadromous Waters Catalog (AWC) by documenting\ unknown anadromous fish spawning, rearing, and migrating locations in southeast Alaska. Alaska Department of Fish and Game (ADFG) staff have been recording anadromous fish habitat since 1962. Yet, many water bodies remain undocumented. Local biologists believe less than 50% of the water bodies used by anadromous fish are included in the AWC and, therefore, eligible for basic protections under Alaska state law. To qualify for inclusion in the AWC, ADFG must have documentation that a given reach of a water body supports some life function of an anadromous fish species. Results from this project will expand protections for previously un- and under-documented waters by adding them to the AWC. Importantly this project will engage recreational anglers, expanding capacity to document new waters through trained, dedicated volunteers. This project impacts decision-making by contributing updated scientific information and will provide increased protections for fish in nominated streams thereby meeting SEAKFHP's primary protection goal (Goal FCS1, Objective FCS1.2).

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Partnership Coordination	2022	Yes	Yes	Yes	AK	No	Southwest Alaska Salmon Habitat Partnership	Bristol Bay Heritage Land Trust	Completed	1	$85,000	$85,000	The Bristol Bay Heritage Land Trust proposes to continue to provide fiscal agent and coordination services to the SW Alaska Salmon Habitat Partnership. Such services include arranging for meetings of the Steering Committee and the Science and Technical Committee, take minutes, carry out directives of the committees, plan and support the annual Southwest Interagency Meeting, coordinate the annual Bristol Bay Fly Fishing & Guide Academy, interact on behalf of the Partnership with the national board and staff to the national board, maintain a web presence and, most importantly, coordinate and seek matching and other funding opportunities from foundations, government agencies, tribal organizations, etc. to implement the strategic objectives of the Partnership Conservation Plan.
Bristol Bay Fly Fishing & Guide Academy	2022	Yes	Yes	Yes	AK	No	Southwest Alaska Salmon Habitat Partnership	Bristol Bay Heritage Land Trust	Completed	2	$25,000	$25,000	The aim of this project is to provide logistical support, organization and funding for the Bristol Bay Fly Fishing and Guide Academy (Academy) - a one-week waterside training program held at a fishing lodge in Bristol Bay. The Academy is designed to prepare the next generation of community leaders with the knowledge, values and skills necessary to uniquely engage in salmon conservation issues in their communities, Native village corporations and on adjacent public lands. The Academy provides the basic equipment needed, to fly fish and tie flies, and, through volunteer instructors, impart the basic knowledge necessary for participants to pursue employment at local fishing lodges. See https://bristolbayriveracademy.org/ If project #1 is fully funded, this project will not be necessary as it will be included in Project #1.
Watershed Conservation Planning for Native Villages of Bristol Bay	2022	Yes	Yes	Yes	AK	No	Southwest Alaska Salmon Habitat Partnership	Bristol Bay Heritage Land Trust	Completed	3	$25,000	$25,000	The aim of this project is to undertake an assessment of the subsistence, cultural and habitat conservation values of lands within the Chignik Subregion and other possible subregions in Bristol Bay. The analysis will build upon tools and methods Bristol Bay Heritage Land Trust and The Nature Conservancy in Alaska developed for assessing Alaska Native village corporation lands in the Bristol Bay region. The anticipated product is a series of detailed area maps and an interactive digital map and database that identify important cultural and subsistence sites and key wildlife, salmon and resident fish habitat for the purpose of guiding future decisions regarding development and conservation.

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Modeling Early Life Stage Salmonid Developmental Rates Under Long Term Environmental Changes	2022	Yes	Yes	Yes	AK	No	Southwest Alaska Salmon Habitat Partnership	Abt Associates, University of Alaska Fairbanks	Completed	4	$204,596	$69,972	We will generate a salmonid developmental model for egg incubation temperatures and metabolic rates over a range of water temperatures. Building on existing models used by hatcheries, we will generate a model applicable to temperature ranges that developing eggs experience in the field in southwest Alaska. We will also develop and deploy an in-situ salmonid egg development monitoring system. The model and in-situ monitoring system will be important tools to monitor and predict future long-term environmental changes.
Continued Monitoring of Wadeable Streams in the Lime Hills Ecoregion	2022	Yes	Yes	No	AK	Yes	Southwest Alaska Salmon Habitat Partnership	Bristol Bay Native Association	-	5	$97,564	-	The aim of this project is to collect benthic macroinvertebrates (BMIs) and diatoms from long-term sites in the project study area in 2023 to extend the monitoring of changes over time since 2008. The project will include an analysis of diatom and BMI samples collected at these sites from 2021 to 2023. Additionally, a molecular analysis of BMI samples will be conducted to compare with morphological community data.
Western Native Trout Initiative FY22 Operational Support	2022	Yes	Yes	Yes	Multiple	No	Western Native Trout Initiative	Western Native Trout Initiative	Completed	1	$85,000	$85,000	WNTI serves as a key catalyst building and maintaining effective conservation partnerships among local, state, and federal partners to catalyze and accelerate conservation of 21 native trout and char species across 12 western states. Funding will provide stable operating support that enables WNTI to implement the actions of its Strategic Plan and Strategic Prioritization, manage its interagency Steering Committee and governance requirements, and obligations as a Fish Habitat Partnership.
Poudre Headwaters Greenback Restoration: Cache la Poudre River, Corral Creek	2022	Yes	Yes	Yes	CO	No	Western Native Trout Initiative	US Forest Service Arapahoe National Forest	Active	2	$85,000	$85,000	Project is first phase of a large-scale recovery plan effort to establish a metapopulation of ESA threatened Greenback Cutthroat Trout (GBCT) in the headwaters of Colorado's Cache la Poudre river. This phase removes one barrier and constructs another to secure 4.5 miles of habitat for GBCT restoration; the total project after additional phases will ultimately restore 37 miles and 106 acres of lakes for a GBCT metapopulation within broadly protected areas of Rocky Mountain National Park and within GBCT historic habitat.
Blackfoot River Yellowstone Cutthroat Trout Habitat Improvement	2022	Yes	Yes	Yes	ID	No	Western Native Trout Initiative	Idaho Department of Fish and Game	Completed	3	$85,000	$85,000	Project is Phase 2 of a 3-year effort to enhance Yellowstone Cutthroat Trout (YCT) habitat on the Blackfoot River where it flows through Idaho Department of Fish and Game's Blackfoot River Wildlife Management Area. The BRWMA is a 972 ha public property that encompasses 10 km of the Blackfoot River and supports the highest densities of YCT in the system while serving as critical spawning habitat for adfluvial YCT. Project includes extensive stream restoration components, and assesses and restores 2.5 stream miles, raises the water table to reconnect the river to its floodplain, and decreases summer water temperatures.

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Rainey Creek Restoration, Bridge-to-Bridge, Phase 2	2022	Yes	Yes	Yes	ID	No	Western Native Trout Initiative	Henrys Fork Foundation	Completed	4	$40,000	$40,000	South Fork Snake River from Palisades Dam to the confluence of the Henry's Fork River is home to the largest population of native Yellowstone Cutthroat Trout (YCT) in Idaho. Since 2018, Rainbow trout and Rainbow/Cutthroat hybrid have increased substantially and threaten to negatively impact YCT through increased interspecies competition and hybridization. Project restores natural stream function and improves habitat quality for a 0.34 mile reach of lower Rainey Creek to benefit native fluvial YCT spawning and rearing, as well as improve habitat for other native, cold-water aquatic species by increasing water velocity, habitat complexity, stream cover and reducing fine sediments.
Western Native Trout Initiative communications/outreach	2022	Yes	Yes	Yes	CO	No	Western Native Trout Initiative	Western Native Trout Initiative	Active	5	$25,000	$25,000	Project supports WNTI operational activities and performance objectives by providing additional, increased capacity to strengthen internal and external communications capacity to share information, track and communicate accomplishments; collaborate with state, federal and local partners; and increase outreach to community-based organizations, anglers, and the public. Project will enhance and improve WNTI's ability to address emerging needs and opportunities and to leverage the full potential of the Partnership to accelerate conservation activities to benefit 21 focal species across 12 western states.
Improving Passage and Survival of Yellowstone Cutthroat Trout in South Leigh Creek	2022	Yes	Yes	No	ID		Western Native Trout Initiative	Friends of the Teton River	-	6	$50,000	-	Project constructs/installs a corrugated fish screen to eliminate Yellowstone Cutthroat Trout (YCT) entrainment and mortality for an important YCT source-population, restoring 11 miles of stream in the Desert Canal on South Leigh Creek, a tributary of the Teton River. Conclusion of the project will mark completion of all identified priority fish screen and irrigation diversion improvements on South Leigh Creek, from the headwaters in the National Forest to the confluence with the Teton River. Project aligns with existing interagency and regional efforts, priorities and management plans including state and federal fish and wildlife plans, the Teton Watershed Restoration and Monitoring Plan and the YCT Decision Support Model, and directly addresses 4 objectives/strategies in IDFG Fisheries Management Plan (2019-2024) for the Teton River and the Idaho State Wildlife Action Plan (2017) to restore/improve connectivity to the fluvial tributaries of the Teton River through public-private partnerships.

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Clear Fork Creek Cutthroat Trout Restoration Project	2022	Yes	Yes	No	CO		Western Native Trout Initiative	Grand Mesa	-	7	$25,000	-	Colorado River Cutthroat Trout (CRCT), native to the Upper Colorado, Gunnison and Dolores Rivers are now relegated to approximately 14% of their native range in Western Colorado, typically relegated to small headwater drainages where they are susceptible to local extinction due to invasion by non-native trout and catastrophic environmental events such as wildfire, drought and long-term environmental changes. CRCT in the Upper Colorado, Gunnison, and Dolores Rivers are currently protected as Threatened Species under the ESA. This initial phase of the project restores 15.5 miles of CRCT habitat through construction of one barrier, removal of non-native fish, and riparian and instream restoration techniques. Long term plan is to create a metapopulation of CRCT in the Clear Fork watershed.
Muddy Creek Fish Passage and Habitat Enhancement	2022	Yes	Yes	No	OR		Western Native Trout Initiative	Lake County Umbrella Watershed Council	-	8	$50,000	-	Muddy Creek is a 12-mile system in the Goose Lake Watershed (South-Central Oregon), a closed basin where the season's snowpack is a critical component to stream flows and lake fill and seasonal flows can be extreme. Goose Lake is home to nine native fish species, four of which are listed as Species of Concern" by the USFWS (Goose Lake Redband Trout, Goose Lake lamprey, Goose Lake sucker, and the California Pit Roach). In 1965, Juniper Reservoir was constructed to store water, dis-connecting the watershed and ultimately impacting species resilience. Project provides volitional passage for Goose Lake native fish species to access the entire 1.5 mile length of Muddy Creek for spawning, rearing and refuge through removal of the concrete spillway and replacement with an ODFW approved roughened channel/rock ramp fishway, removal of the upper earthen dam, replacing an undersized culvert, native plant plantings, and reduction of livestock impact along the stream.
NFHP Board Operations Proposal	2022	Yes		Yes	National	No	National Fish Habitat Board	Association of Fish and Wildlife Agencies	Completed	1	$333,532	$333,532	To meet the requirements and obligations of the ACE Act, the Board requires base funding for: 1) basic Board operations to include both Board travel and meeting costs and Science and Data Committee (SDC) Co-chair travel and SDC meeting costs; 2) NFHP communications and overall program coordination and support; and 3) maintenance of existing data systems for both NFHP projects and assessment data.
2023													
ACFHP Operational Support	2023	Yes	Yes	Yes	Multiple	No	Atlantic Coastal Fish Habitat Partnership	Atlantic States Marine Fisheries Commission	Completed	1	$85,000	$85,000	Funding will go towards coordinator salary, one Steering Committee (SC) meeting, and one Science and Data Committee meeting. ACFHP will develop and work towards the objectives, strategies, and actions in its new Strategic and Action Plans. This will be accomplished through meetings and the execution of conservation projects. Immediate success will be the publication of ACFHP's new Plans in the 1st quarter of FY23.

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Paulina Dam (NJ 21-2) Removal on the Paulins Kill, NJ	2023	Yes	Yes	Yes	NJ	No	Atlantic Coastal Fish Habitat Partnership	The Nature Conservancy	Completed	2	$50,000	$50,000	Removal of the Paulina Dam will reconnect 7.6 miles of riverine habitat. It is the final step in a watershed-wide restoration program that will open 45 miles to American shad, American Eel, sea lamprey, eastern brook trout, and three state-threatened mussels. This project will remove the dam and stabilize the bank. Goals: (1) improve aquatic and terrestrial connectivity, increase target fish, mussel, and macroinvertebrate populations; (2) improve water quality, restore hydrology; and (3) enhance recreation, public safety. The Paulins Kill Watershed Monitoring Program was developed in 2015 and will continue through 2025. Presence/absence, relative abundance, and/or variety of fish species; freshwater mussels; reach-scale geomorphic and habitat characteristics; temperature, DO, and turbidity; macroinvertebrate community; and more will be monitored. The project's primary goal is dam removal, so the objective will be met if the dam is removed.
Salt Marsh Restoration and Donor Marsh at Wards Creek, North River Wetlands Reserve, Carteret County, NC	2023	Yes	Yes	Yes	NC	No	Atlantic Coastal Fish Habitat Partnership	North Carolina Coastal Federation	Active	3	$159,658	$159,658	This project creates 1 acre of "donor" salt marsh from farmed land to provide scarce native saltmarsh plants to sustainably enable future restoration and improve water quality in greater Ward Creek. Species benefitted include tarpon, spotted sea trout, and more. Vegetation type and quantity will be monitored pre- and post-construction annually for 2 years. If plant standards aren't met, adaptive management will consist of: adding more plugs to marsh; planting different natives, and altering the hydrologic profile. Harvest will not occur until Year 3 if necessary for marsh establishment.
Engineering, Design and Permitting for the Removal of the Lower E.R. Collins Dam (NJ Dam #24-28) on the Pequest River in New Jersey	2023	Yes	Yes	Yes	NJ	No	Atlantic Coastal Fish Habitat Partnership	The Nature Conservancy	Active	4	$50,000	$50,000	Dam removal will open 3 miles for American shad and American eel migration, improve instream habitat, and reduce threat of flooding to homes and businesses; there are zero barriers downstream. Funding is sought for engineering, design, and permitting to make the project "shovel-ready." The goal is to bring both dams through engineering, design, and permitting for their removal. These two removals should increase fish and macroinvertebrate populations, improve fish passage, restore hydrology, and improve water quality. Removal of the upper dam will mitigate flooding for the 10-, 50- and 100-year floods by up to 3 ft.

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Engineering, Design and Permitting for the Removal of the Upper E.R. Collins Dam (NJ Dam #24-29) on the Pequest River in New Jersey	2023	Yes	Yes	No	NJ	No	Atlantic Coastal Fish Habitat Partnership	The Nature Conservancy	-	5	$50,000	-	Dam removal will open 3 miles for American shad and American eel migration, improve instream habitat, and reduce threat of flooding to homes and businesses; there are zero barriers downstream. Funding is sought for engineering, design, and permitting to make the project "shovel-ready." The goal is to bring both dams through engineering, design, and permitting for their removal. These two removals should increase fish and macroinvertebrate populations, improve fish passage, restore hydrology, and improve water quality. Removal of the upper dam will mitigate flooding for the 10-, 50- and 100-year floods by up to 3 ft.
Town Brook Stream Restoration: Jenney Grist Mill Nature-Like Fishway Bypass	2023	Yes	Yes	No	MA	No	Atlantic Coastal Fish Habitat Partnership	Town of Plymouth, Department of Marine and Environmental Affairs	-	6	$121,499	-	Funding is requested for the design and permitting of the Jenney Grist Mill nature-like fishway bypass. This is part of the Town Brook Restoration Program to restore ecological health, improve long-term environmental change resiliency, and alleviate public safety concerns along the brook. The bypass will ensure unobstructed passage for river herring and American eel to 1.67 miles of river and 269 acres of pond spawning habitat. The fishway bypass will circumvent the Jenney Pond Dam and increase the number of fish reaching their spawning habitat. It will decrease downstream mortality during migration.
CFPF Coordination & Operational Support	2023	Yes	Yes	Yes	CA	No	California Fish Passage Forum	Pacific States Marine Fisheries Commission	Completed	1	$85,000	$85,000	The California Fish Passage Forum (Forum) coordinator and staff at Pacific States Marine Fisheries Commission (PSMFC) have a strong history of successfully providing coordination and other technical support (GIS, data stewardship, project and contract management, etc.) to the Forum for many years. The Forum coordinator has been in this role with the Forum since September 2018, and also serves as the coordinator for the Pacific Lamprey Conservation Initiative since November 2019. PSMFC has supported the Forum for more than a decade.

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Little Case Fish Passage Project	2023	Yes	Yes	Yes	CA	No	California Fish Passage Forum	Eel River Watershed Improvement Council	Completed	1	$26,000	$26,000	California Department of Fish and Wildlife has identified the culverts targeted by this project as a high priority for removal and funded the design phase of this project. By removing two culverts and replacing them with structures that do not impede fish passage, habitat connectivity will be restored for Coho Salmon and steelhead trout, listed species under state and federal Endangered Species Acts. This project will provide juvenile salmonids access to currently inaccessible summer habitat and winter refugia and will protect them from increased winter flows caused by long-term environmental change enhanced storms. This project will replace two culverts with bridges that will provide passage for Coho Salmon and steelhead at all flows, construct nine fish habitat structures made of 16 logs, and plant 50 native trees along project reaches. The project will also open access to one mile of extremely valuable spawning and rearing habitat for all life stages of Coho Salmon and steelhead trout.
Mid-Klamath Tributary Fish Passage Improvement Project	2023	Yes	Yes	Yes	CA	No	California Fish Passage Forum	Salmon River Restoration CouncilMid Klamath Watershed Council	Completed	2	$45,188	$45,188	Seasonal low flow barriers to anadromous fish passage on key tributaries in the Klamath watershed will be identified and treated, resulting in improved juvenile and adult fish passage into 30 to 40 tributaries in the Klamath and Salmon River subbasins. This work is seasonal and is not expected nor intended to remain after annual winter flooding but is cost-effective and provides immediate results to the fishery.
Native Fish Passage in San Joaquin River at Eastside Bypass Control Structure**	2023	Yes	Yes	Yes	CA	No	California Fish Passage Forum	US Fish and Wildlife Service	Completed	3	$51,890	$64,809	This project will improve passage at the EBCS, especially during drought conditions, help rebuild native fish populations in the San Joaquin River, and build on the larger on-going investment for volitional passage for native fish in the Restoration Area.
North Fork Ryan Creek Fish Passage Design	2023	Yes	Yes	Yes	CA	No	California Fish Passage Forum	Eel Creek Watershed Improvement Council	Completed	4	$60,500	$60,500	The project will address the most downstream barrier in highly valuable habitat along a tributary to one of the longest migration corridors for Coho Salmon in California by funding the development of 100% design plans for a stream crossing that will pass steelhead and Coho Salmon at all life stages and all flows.
Designing for Sturgeon Passage in San Joaquin Eastside Bypass**	2023	Yes	Yes	Yes	CA	No	California Fish Passage Forum	US Fish and Wildlife Service	Completed	5	$49,387	-	This project will provide currently lacking information about the presence and distribution of San Francisco Estuary (SFE) White Sturgeon in the Upper San Joaquin River and the potential for planned and proposed restoration projects to create needed spawning habitat to bolster the SFE White Sturgeon population.

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Long Creek Fish Screen, Sycan Marsh Preserve	2023	Yes	Yes	No	OR	No	California Fish Passage Forum	Trout Unlimited	-	6	$100,000	-	Trout Unlimited (TU), The Nature Conservancy (TNC), USFWS, and ODFW are partnering to reduce the risk of entrainment to Bull Trout and Redband Trout in Long Creek on the Sycan Marsh Preserve. This funding will be used for fabrication (by ODFW Central Point Screen Shop) and installation of the fish screen.
Driftless Area Restoration Effort national fish habitat partnership, Coordination, and Operational Support	2023	Yes	Yes	Yes	MN, WI, Il & IA	No	Driftless Area Restoration Effort	Trout Unlimited	Completed	1	$85,000	$85,000	The project has received NFHP funds to foster, organize, and engage in activities that are consistent with priorities, goals and objectives of the Driftless Area Aquatic Conservation Plan (http://www.darestoration.com) while contributing to the goals, objectives and strategies of the National Fish Habitat Partnership Plan.
A Brook Trout Conservation Portfolio to Inform Strategic Planning in the Driftless Area	2023	Yes	Yes	Yes	MN, WI, Il & IA	No	Driftless Area Restoration Effort	Trout Unlimited	Active	2	$35,000	$35,000	The Brook Trout Conservation Portfolio assessment framework is a GIS-based conservation analysis developed by Trout Unlimited uses information on fish passage barriers to identify interconnected patches of Brook Trout habitat.
Bruce Valley Creek DARE Habitat Improvement Project-WI	2023	Yes	Yes	No	WI	No	Driftless Area Restoration Effort	Elk Rod and Gun Club	-	3	$25,000	-	Riparian vegetation in project reach is dominated by invasives resulting in bank erosion, sediment inputs and poor in-stream habitat for trout. Goals of project are to improve the water quality and habitat for this Brook stream in a focal fhp watershed. Work will be completed on private land with a perpetual easement.
Promoting the Restoration of DARE Streams as an Alternative to Facility Upgrades for Municipalities	2023	Yes	Yes	Yes	WI	No	Driftless Area Restoration Effort	Trout Unlimited	Active	4	$40,000	$40,000	Trout Unlimited, TU will educate municipalities on how to implement stream restoration projects as a more cost-effective method of achieving P-reductions than upgrading their facilities.
Casey Springs DARE Brook Trout Habitat Project-IA	2023	Yes	Yes	Yes	IA	No	Driftless Area Restoration Effort	Winneshiek County Conservation Board	Active	5	$36,000	$36,000	Casey Springs is 1 of only 13 naturally reproducing, self-sustaining brook trout streams in Iowa. Project area is in protection-surrounded by 17-acre wildlife area of native tree and prairie. Reconnecting stream section with adjacent floodplain will improve natural hydrology, sediment transport and reduce soil erosion. Actions will result in exposing natural substrate for spawning and feeding, deeper pools for overhead cover and overwintering, and general increase in stream resiliency.

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Evaluating the Distribution and Drivers of Sculpin and Brook Trout Populations in NE Iowa; Advancing DARE in the Volga River Watershed	2023	Yes	Yes	Yes	IA	No	Driftless Area Restoration Effort	Upper Iowa University	Active	6	$36,000	$36,000	Knowledge of fish populations and distribution of cold-water habitats within the Volga River watershed of NE Iowa is limited. Proposed project objectives are to conduct fish surveys at ~80 sites and document the distribution of SGCN Slimy and Mottled Sculpin and Brook Trout and the distribution of cold-water habitats within the priority watershed and identify primary landscape variables influencing distribution of target species. Proposed work will aid resource managers in the identification of priority areas for habitat conservation and restoration to benefit brook trout and sculpin.
Crowdsourcing DARE Water Quality Monitoring APP	2023	Yes	Yes	Yes	WI, IA, MN, IL	No	Driftless Area Restoration Effort	Trout Unlimited	Active	7	$15,000	$15,000	Using a patented mobile phone App designed specifically for the Driftless Area. The App, using volunteer anglers and others will crowdsource (1,000 observation goal) and capture basic water quality information and input observations on stream site disturbances such as bank erosion, fish barriers, and tile drainage.
Traverse Valley Creek DARE Habitat Improvement Project-WI	2023	Yes	Yes	No	WI	No	Driftless Area Restoration Effort	Elk Rod and Gun Club	-	8	$25,000	-	Completed work expected to improve habitat to benefit brook trout and associated coldwater community. Objectives are to restore 1.2 acres of riparian buffer, enhance 0.28 miles of instream habitat, and will include public access with perpetual fishing easement from willing private landowner. Project will complement previous work completed on priority stream and expected to improve overall water and in-stream habitat quality.
Partnership Operational Support	2023	Yes	Yes	Yes	WA, OR, CA, NV, ID, WY, UT, CO, AZ, NM, TX	No	Desert Fish Habitat Partnership	US Fish and Wildlife Service	Completed	1	$85,000	$85,000	Stable operational support is vital for DFHP to continue its long history of success. DFHP will continue to increase and strengthen partnerships, identify and fund high priority projects that meet both DFHP and NFHP goals and objectives, and increase public engagement and excitement about DFHP's unique, underserved, and imperiled fishes.
White River Conservation and Restoration	2023	Yes	Yes	Yes	UT	No	Desert Fish Habitat Partnership	Utah State University	Active	2	$54,843	$54,843	This project will explore the effectiveness of utilizing large wood to support on-going beaver activity and large wood recruitment in the White River.
Drews Creek Fish Passage and Stream Restoration	2023	Yes	Yes	No	OR	No	Desert Fish Habitat Partnership	Lake County Umbrella Watershed Council	-	3	$71,500	-	Funds for this project will implement work to restore fish passage at an irrigation diversion on Drews Creek to provide access upstream (1 mile), while enhancing stream and riparian function using large wood and willow plantings.

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Cottonwood Creek Fish Habitat Restoration	2023	Yes	Yes	Yes	OR	No	Desert Fish Habitat Partnership	Lake County Umbrella Watershed Council	Active	4	$71,500	$94,802	The work proposed in this application will take place on Cottonwood Creek, one of the largest tributaries to Goose Lake. Project objectives aim to support instream water availability, reduce sediment pollution, create and improve pool habitat, and provide streambank stability. Tasks that will be accomplished include finals designs, compliance assurance, and contracting the implementation of the work that will restore and enhance 1.5 miles of stream habitat.
Desert Fish Stream Habitat Enhancement in Desert Biome of BioSphere II	2023	Yes	Yes	No	AZ	No	Desert Fish Habitat Partnership	Arizona Board of Regents, University of Arizona	-	5	$37,842	-	The University of Arizona's Biosphere 2 is the world's largest controlled environment dedicated to understanding the implication, mitigation, and adaptation solutions for resilience of our planet (Biosphere 1) due to long-term environmental changes. DFHP funds will be used to construct a desert stream/pond/Cienega to be stocked with Gila topminnow and desert pupfish. While this habitat will primarily serve as an educational and outreach opportunity about endangered fishes to over 100,000 visitors and students annually, the project will also implement tasked outlined in the Gila topminnow recovery plan.
Escalante Watershed Restoration Project	2023	Yes	Yes	No	CO	No	Desert Fish Habitat Partnership	Trout Unlimited	-	6	$34,000	-	This project will deploy numerous NRCS conservation practices to improve irrigation water use efficiency and reconnect the floodplain to the creek to improve riparian conditions. These methods include building permanent rock dam structures, providing new headgates, fencing off riparian areas to exclude cattle, native riparian vegetation planting, and building beaver dam analogs. Improving instream and riparian habitat will benefit native fish species of the Escalante watershed.
Lower Snake River Ranch Stabilization and Fish Habitat Project	2023	Yes	Yes	No	WY	No	Desert Fish Habitat Partnership	Trout Unlimited	-	7	$40,000	-	This project will address lack of quality fish habitat, bank erosion, and land loss within the project area. Through innovative techniques further described below, a thriving riparian buffer will be re-established, allowing the river to access more of its historic floodplain and providing for native fish habitat
Teaching the Value of Water Conservation on T & E Species within the Rio Grande	2023	Yes	Yes	No	NM	No	Desert Fish Habitat Partnership	US Fish and Wildlife Service	-	8	$75,500	-	This program will be offered to every fourth-grade classroom in Albuquerque. On-site education will be delivered about threatened and endangered species within the Rio Grande, NM, and how water conservation contributes to species persistence and recovery. Additionally, all students will be able to participate in releases of Rio Grande Silvery Minnow, creating a physical connection to an endangered species.

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EBTJV Operations	2023	Yes	Yes	Yes	WV	No	Eastern Brook Trout Joint Venture	Canaan Valley Institute	Completed	1	$85,000	$85,000	This funding will support its base operational functions such as: updating our strategic plan; maintaining and growing our website, social media, other outreach campaigns; coordinating efforts with other conservation groups and NFHAP; sharing information about advances and needs in brook trout management across the scientific and management communities; collaboratively identifying needs and finding coordinating the next range-wide and regional data projects; recruiting and selecting on-the-ground projects; and supporting and growing our own organizational capacity, particularly with our 501c(3) sponsor, Canaan Valley Institute.
Administrative role within Grant Solutions for EBTJV coordinator	2023	Yes	Yes	No	WV	No	Eastern Brook Trout Joint Venture	Canaan Valley Institute	-	1	$29,256	-	To assist partners with grant agreement paperwork and compliance, the EBTJV coordinator has acquired Affiliate status and credentials with USFWS and is (in FY22) beginning the training needed to be a Grant Administrator in Grant Solutions.
Quinapoxet Dam Removal, Worchester, MA	2023	Yes	Yes	Yes	MA	No	Eastern Brook Trout Joint Venture	Massachusetts Water Resource Authority	Completed	2	$50,000	$50,000	Dam removal will provide upstream fish access to high-quality coldwater habitat, restore river processes for downstream benefits (e.g., sediment and organic matter transport), and ensure genetic health for brook trout and landlocked salmon. The project will make 35 miles of river accessible to fish, restore 0.2 miles of upstream habitat, restore 1 acre riparian habitat, add an ADA compliant path/platform on the river bank, and install signage.
Evaluation and Mitigation Steps for Threats to the Moshannon Creek Watershed Upstream of Roup Run	2023	Yes	Yes	Yes	PA	No	Eastern Brook Trout Joint Venture	Moshannon Creek Watershed Association	Completed	3	$43,500	-	This project will result in a written plan for a series of restoration steps for the AMD- impaired Moshannon Creek watershed, which once implemented would result in the restoration of health to the main stem of Moshannon Creek. This project will advance steps to allow passive AMD treatment of the Moshannon Creek watershed (specifically 6.3 miles of headwaters affected by AMD discharges and coal refuse pile sites). MCWA will continue to monitor water chemistry below the pollution input points upon completion of the treatment system.
Culvert Replacement and Habitat Restoration, Box Cover Brook, Somerset, Vermont	2023	Yes	Yes	No	VT	No	Eastern Brook Trout Joint Venture	Trout Unlimited	-	4	$25,500	-	Box Cover Brook is a wild brook trout stream that is currently fragmented by an undersized culvert. Replacing the culvert with an adequately sized bridge will improve connectivity, particularly to a unique reservoir life history of brook trout. The project will also improve brook trout habitat variety, protective cover, and potential for thermal refugia in the face of long-term environmental change. The objective is to reconnect 3.2mi stream and restore 1mi of in-stream habitat.

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Cady Brook Culvert Replacement, Cady Brook, Hartland, Vermont	2023	Yes	Yes	Yes	VT	No	Eastern Brook Trout Joint Venture	Ottauquechee Natural Resources Conservation District	Completed	5	$41,560	$41,560	The project will replace an undersized culvert with a bridge (160% bankfull width) to restore fish passage and sediment transport processes, in a watershed with a high quality brook trout population. The project will open 14.5 miles total and 2.5 miles of upstream tributary to aquatic organism passage and reduce erosion of the crossing and adjacent trail.
Lower Wells Brook Stream Restoration: Post-Construction Evaluation and Maintenance Dover Plains, NY	2023	Yes	Yes	Yes	NY	No	Eastern Brook Trout Joint Venture	Housatonic Valley Association	Active	6	$14,977	$14,977	This project will perform post-construction maintenance and 2nd year riparian plantings on a project to stabilize actively eroding streambanks and reconnect the Wells Brook channel to its floodplain. Wells Brook supports brook trout and logger data suggest it could be an important cold water refuge. Ecological benefits include reduction of sediment and nutrient pollution and restoration of riparian vegetation. Objectives for the first phase include 1400' of stabilized bank, 10 crossvanes and 5 rootwads.
EBTJV scientific assessment project: update to eastern brook trout range-wide occupancy dataset and informing our strategic plan	2023	Yes	Yes	No	WV	No	Eastern Brook Trout Joint Venture	EBTJV/ Canaan Valley Institute	-	7	$30,000	-	This range-wide brook trout assessment is central to our science-based conservation planning for wild brook trout, and is also used by other organizations and member states in their own prioritizations. It also helps visualize the need and opportunities for conservation. Our new web portal is now ready and allows states to update the catchment data on the web. This project will 1)assist all 17 member states in updating their data, 2) to summarize range-wide patch and catchment metrics, and 3)to track progress towards our EBTJV range-wide goals and objectives.
Operations/Base Funding: Coordination, Communications & Science Team	2023	Yes	Yes	Yes	IA	No	Fishers and Farmers Partnership	abitat for Human	Completed	1	$85,000	$85,000	Project provides outreach to educate partners/put more conservation on ground. Drives social/science aspect of projects: Watershed Leaders Network, farmer-led committees, social networks, bringing attention to science, elements to make ecological impact.
Huzzah/Shoal Creeks Woodlands for Wildlife, MO	2023	Yes	Yes	Yes	MO	No	Fishers and Farmers Partnership	Ozark Regional Land Trust	Active	2	$75,000	$75,000	1/9 State Priority Geographies. Protection/restoration improve fish habitat by enhancing riparian corridor, decreasing cattle impacts to stream/fish/mussels. Instream habitat 0.1mi, 5 stream crossings, maintain Fish IBI ≥37, 30 pop. assessed, 500' streambank stabilization, 8.3mi riparian, 121ac riparian, 185ac upland, 5 alternative watering systems, 250ac grasslands/perennial cover, 20ac native pasture/riparian corridor, 50ac woodlands, 1 farm tour demo BMPs, 1 conservation easement.
Habitat Restoration & Landowner Education & Outreach on the Vermillion River, MN	2023	Yes	Yes	Yes	MN	No	Fishers and Farmers Partnership	Friends of the Mississippi River	Active	3	$29,571	$29,571	Unique project combines on-the-ground habitat restoration with landowner outreach/education to create tangible upland & in-stream habitat benefits & to engage Vermillion River community/farmers in conservation & habitat restoration for water quality, healthy fish pop. Will enhance 1.1 mi riparian, 7 ac riparian/5,892 ft., 11 ac wetland, 10 ac upland, assess 1 fish pop. NFHP Strat 1,2,4. FFP Goals/Obj. 1,2,5,8.

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Devils Creek Watershed Rusk County, WI	2023	Yes	Yes	Yes	WI	No	Fishers and Farmers Partnership	Rusk County	Active	4	$32,688	$32,688	Rusk County, WIDNR, TU, Bruce School District working to protect (headwaters), restore (lower watershed) Devils Creek, Class I trout stream, working with farmers in-stream, riparian, upland habitats. Restore 3 streambank erosion sites, 2 in-stream habitat structures, 1 riparian livestock exclusion fence, 1 grassed waterway/buffer, 7.3ac riparian, 24ac upland, baseline WQ measurements, planning for BMPs.
Leveraging State Water Quality Initiative Funds to Increase Boone River Watershed Oxbow Restorations for Topeka Shiner and Water Quality, IA	2023	Yes	Yes	Yes	IA	No	Fishers and Farmers Partnership	The Nature Conservancy	Active	5	$31,102	$31,102	Protects intact/healthy waters bringing attention to/improving land use practices, restores hydrologic conditions for fish, reconnecting floodplain/providing storage for water, reconnects spawning habitat for federally listed Topeka shiner, other fish &wildlife, restores WQ filtering/decreasing sediment/nutrients into streams.
Jumpstarting Conservation Drainage in Illinois for Improved Water Quality, IL	2023	Yes	Yes	Yes	IL	No	Fishers and Farmers Partnership	Advanced Drainage Management Coalition	Active	6	$82,395	-	CDP critical component of IL Nutrient Loss Reduction Strategy & IL Comprehensive Wildlife Conservation Plan. Protects intact/healthy waters, restore hydrologic conditions for fish, restore WQ. Goal: increase awareness of CDP, adoption of practices across IL, improve WQ impacting local fisheries, drinking water supplies, nutrients leaving IL. 3-5 CDP installations (bioreactors, wetlands, drainage management, oxbows, saturated buffers), video series featuring installation process with farmer testimonials, 2 newsletters ISAP Publication, planning assistance/participation WLN event.
Great Lakes Basin Operational Support	2023	Yes	Yes	Yes	Multiple	No	Great Lakes Basin Fish Habitat Partnership	US Fish and Wildlife Service	Completed	1	$85,000	$85,000	The focus of the GLBFHP is to protect, restore, and enhance fish habitat in the Great Lakes Basin by providing leadership, coordination, and collaboration with existing and future partners. The GLBFHP will continue to support on-the-ground projects that restore ecological function, water quality, and spawning/nursery habitat.
Great Plains Fish Habitat Partnership Operational Support	2023	Yes	Yes	Yes	Multiple	No	Great Plains Fish Habitat Partnership	US Fish and Wildlife Service	Completed	1	$85,000	$85,000	Objectives of this project is to continue management of current and past projects funded by the Great Plains FHP since 2017, conduct landscape scale prioritizations and outreach with various state agencies within the partnership area as well as nonprofits and others to identify high priority projects for the FHP applicable for NFHP funding requests.
Bighorn River Side Channel Reactivation	2023	Yes	Yes	Yes	MT	No	Great Plains Fish Habitat Partnership	Bighorn River Alliance	Completed	2	$66,280	$66,280	This work would reverse the loss of connectivity by restoring up to twelve side channels representing approximately 5.5 miles of river habitats reconnected. Existing side channels will be reconnected to the mainstem Bighorn River to create variety of channel structure to promote habitat variety. The twelve side channels will be mechanically opened to create a flow through system that has been interrupted by the existing Yellowtail Dam.

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North Laramie River Fish Passage	2023	Yes	Yes	No	WY	No	Great Plains Fish Habitat Partnership	Wyoming Game and Fish Department	-	3	$85,142	-	This work is similar to other work they have accomplished in the past and continues their work to both re-open the Laramie River to native aquatic species and control identified invasives. This work would remove two barriers and enhance another barrier to protect native species upstream on the North Laramie River.
Silver Lake Outlet Modification	2023	Yes	Yes	Yes	MN	No	Great Plains Fish Habitat Partnership	Buffalo - Red River Watershed District	Active	4	$58,400	$58,400	This project would create a functioning connection between Silver Lake and the Buffalo River to connect upstream river sections as the next priority project within the Buffalo River for 54 fish species and 12 native mussels including the Creek heelsplitter and Black sandshell. Monitoring will be conducted on both the design and the population response.
Upper Yellowstone Project Prioritization Plan	2023	Yes	Yes	Yes	MT	No	Great Plains Fish Habitat Partnership	Montana Freshwater Partners	Active	5	$55,000	$55,000	A major effort would be to build the coalition of partners including landowners that would be essential successfully implementing this work. The outcomes of the project would be a strong outreach component along with a list of agreed upon shovel ready projects to implement in the foreseeable future. This work would direct the habitat restoration efforts for multiple agencies and partners to benefit not only the aquatic species but the landowners along about 182 miles of the Yellowstone River and its tributaries.
Operational Support - Hawaii FHP	2023	Yes	Yes	Yes	HI	No	Hawaii Fish Habitat Partnership	US Fish and Wildlife Service	Completed	1	$85,000	$85,000	This includes regular meetings, proposal review, strategic planning, and outreach and education events. Non-federal participants in the Steering Committee include staff from three State agencies, three non-profit organizations and a large landowner/educational trust
Estuarine Habitat Restoration at Kīholo Fishpond	2023	Yes	Yes	Yes	HI	No	Hawaii Fish Habitat Partnership	The Nature Conservancy in Hawaii	Active	2	$109,300	$109,300	This project will result in the removal of sediment from 0.5 acres of estuarine habitat, and 0.25 acre of native species planted, in order to improve water quality and hard bottom habitat utilized by marine and estuarine fish, invertebrates, and reptiles.
Alakoko/Hūleʻia Aquatic Habitat Restoration	2023	Yes	Yes	Yes	HI	No	Hawaii Fish Habitat Partnership	Malama Huleia	Active	3	$128,000	$62,205	The primary objective of this project is to remove invasive vegetation from five acres of wetlands adjacent to the Alakoko Fishpond/Hūleʻia Estuary restoration site.
Large-scale Nearshore Marine Habitat Restoration in Maunalua Bay, Oahu	2023	Yes	Yes	No	HI	No	Hawaii Fish Habitat Partnership	Mālama Maunalua	-	4	$70,600	-	This project will expand several restoration tasks focused on controlling invasive marine algae to restore benthic habitat to benefit recreationally and culturally important native fish. Removal and control of invasive algae throughout the reef flat along the margins of the bay increases preferred benthic habitat conditions.

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Increasing Recreational Fisheries Engagement through the Fish Habitat Partnerships in Coordination with the Hawai‘i Fish Habitat Partnership	2023	Yes	Yes	No	HI	No	Hawaii Fish Habitat Partnership	Kuleana Coral	-	5	$32,013	-	To address a primary cause of coral reef habitat loss, Kuleana Coral will carry out coral restoration on the West Coast of O‘ahu.
Place-based and Community-assisted Invasive Species Removal to Improve Habitat Connectivity in the Ala Wai Watershed	2023	Yes	Yes	No	HI	No	Hawaii Fish Habitat Partnership	University of Hawaii-NREM	-	6	$127,684	-	The goal of the proposed project is to support, extend, and evaluate on-going outreach education, citizen science, and stream and watershed restoration efforts with participation of educators, students, and schools in the three streams of Ala Wai watershed (Makiki, Mānoa, and Pālolo).
KPHFP Coordination and Operational Support	2023	Yes	Yes	Yes	AK	No	Kenai Peninsula Fish Habitat Partnership	Kenai Watershed Forum	Completed	1	$85,000	$85,000	The KPFHP coordinator supports all projects within the Partnership, as well as working with unfunded projects to develop them for future FHP funding or for funding through an alternate source, so long as the project outcomes support the FHPs goals and objectives. Conservation targets of the KPFHP are organized and tracked by watershed type, with seven distinct watershed types intended to encompass the full spectrum of freshwater fish habitat found throughout the partnership. In addressing the goals and objectives of the KPFHP, the coordinator will be supporting the national goals and objectives of the NFHP Action Plan within our region.
Stream Watch: Deepening Impact of Volunteer Fish Habitat Stewardship	2023	Yes	Yes	Yes	AK	No	Kenai Peninsula Fish Habitat Partnership	Kenai Watershed Forum	Active	2	$24,266	$24,266	As development, invasive species, and long-term environmental change threaten Kenai Peninsula rivers, Stream Watch provides vital education and stewardship activities at the region's most trafficked recreational areas to promote ecologically stable river systems, good fish habitat, and an informed public. Stream Watch staff will recruit 80+ volunteers who will manage 3 miles of riparian habitat protection fencing, remove 3,500 pounds of fish endangering debris, complete erosion control projects, and educate 4,000 people about fish habitat. Program efforts will help deepen impact at the Kasilof River with 30+ hours of volunteer time at a staffed dipnet booth.
Quartz Creek Watershed Instream Flow Reservations and AWC Nominations	2023	Yes	Yes	Yes	AK	No	Kenai Peninsula Fish Habitat Partnership	Alaska Department of Fish and Game	Active	3	$41,413	$41,413	Funds will be used to continue an ongoing project that includes two stream gaging sites and six discharge stations while also adding two new discharge stations. The main objective of this project is to quantify and protect instream flows for salmon-producing waterbodies in the Quartz Creek watershed, and beyond, by filing applications for instream flow reservations with the Alaska Dept. of Natural Resources (DNR). The project will allow for continued operation of two stream gages, on Quartz Creek and Daves Creek, to obtain the minimum amount of hydrological data required to file for reservations.

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Freshwater Invasive Species Mitigation and Control on the Kenai Peninsula	2023	Yes	Yes	Yes	AK	No	Kenai Peninsula Fish Habitat Partnership	Kenai Watershed Forum	Active	4	$43,655	$43,655	This project seeks to protect the integrity of fish habitat through early detection and rapid response to novel aquatic invasive species on the Kenai Peninsula. Additionally, this project seeks to understand and mitigate the negative effects that existing invasive species have on riparian systems that support rearing habitat for salmon. Through this project, KWF will survey 6 remote and 10 roadside water bodies for the presence of aquatic invasive species.
Creating Kenai Watershed Stewards Through Adopt-A-Stream Program	2023	Yes	Yes	Yes	AK	No	Kenai Peninsula Fish Habitat Partnership	Kenai Watershed Forum	Active	5	$26,683	$26,683	As future leaders and resource managers of Alaska, children and their families play a significant role in managing the health of the ecosystem. Themed in conservation, AAS delivers programming that promotes responsible recreation behavior and builds a passion for the resource. By providing opportunities that expose children to our environmental needs. AAS are designed to increase an understanding of watersheds through the delivery of interdisciplinary curriculum centered on environmental experiences. Through a hands-on and engaging model, AAS aims to support the connection between healthy watersheds, salmonid life cycle, and ecosystem conservation which benefit both water quality and local fish and wildlife habitat.
Designing of nature-based stormwater management solutions for urban areas along the Kenai River	2023	Yes	Yes	Yes	AK	No	Kenai Peninsula Fish Habitat Partnership	St Mary's University of Minnesota	Active	6	$49,945	$49,945	Heavy metals, zinc and copper have documented negative effects on salmonids and their habitats when these metals directly enter streams. Water quality monitoring has identified that pollutants are increasing in the Kenai watershed on a concerning level. Mitigation infrastructure would capture and hold runoff thus protecting salmon and their habitat. The primary goal of this project is to protect water quality and promote healthy fish populations.
Post-Treatment Effectiveness Monitoring of Streambank Rehabilitation and Protection Projects	2023	Yes	Yes	No	AK	No	Kenai Peninsula Fish Habitat Partnership	Alaska Department of Fish and Game	-	7	$48,549	-	ADF&G are proposing to collect baseline data on a subset of the 750 projects, using ADFG's current monitoring protocols to evaluate the long-term effectiveness of the different bioengineering techniques. Upon completion of data collection, techs will enter and organize photos, GPS points, and data into a computer database. Habitat Biologists will then QA/QC and summarize data. The summary of the data will be prepared into a final report and submitted to the granter.
Stewardship: Keeping Protected Land Protected for Salmon	2023	Yes	Yes	No	AK	No	Kenai Peninsula Fish Habitat Partnership	Kachemak Heritage Land Trust	-	8	$5,358	-	The completion of this project will provide KHLT's conservation partners and neighbors with information for use of best management practices for their salmon-related property in a manner that is sensitive to fish habitat. Increase landowner access to and understanding of Best Management Practices (BMPs) for land important to salmon, conservation easement land, and land adjacent to conservation land protected by KHLT.

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Prioritizing Fish Passage Improvement on the Kenai Peninsula	2023	Yes	Yes	No	AK	Yes	Kenai Peninsula Fish Habitat Partnership	Kenaitze Indian Tribe	-	9	$27,150	-	Improperly installed or maintained road and trail crossings can impede movement of adult and juvenile salmon and negatively affect their productivity. Fish passage improvement projects restore access to spawning and rearing grounds that wild salmon require to complete their life cycle.
Nanwalek Fishery Enhancement Project – Derelict Weir Removal	2023	Yes	Yes	No	AK	Yes	Kenai Peninsula Fish Habitat Partnership	Chugach Regional Resources Commission	-	10	$62,537	-	Our main goal is to create projects with objectives to support salmon conservation with measurable outcomes. This project will contribute to improved stewardship and conservation of the EBL system by cleaning up the banks and assessing the stream habitat in an effort to record a baseline survey of the habitat to begin the improvement process.
Mat-Su Salmon Partnership Outreach and Coordination	2023	Yes	Yes	Yes	AK	No	Matanuska Susitna Basin Salmon Habitat Partnership	Trout Unlimited	Completed	1	$85,000	$85,000	This project furthers the collective efforts of the Partnership to address some of the most pressing salmon habitat issues in the Mat-Su through basic operations support, education and outreach, and by providing a forum for information exchange, discussion and collaboration.
Mat-Su Salmon Partnership NFHP-Funded Projects Administration	2023	Yes	Yes	Yes	AK	No	Matanuska Susitna Basin Salmon Habitat Partnership	Trout Unlimited	-	1	$25,000	$53,112	This project furthers the collective efforts of the Partnership by providing essential support to meet its priority conservation goals identified in the FY23 RFP through grant administration support to Mat-Su/NFHP funded projects.
Anadromous Waters and Elodea Surveys in the Remote Western Matanuska-Susitna Borough: Phase 2	2023	Yes	Yes	Yes	AK	Yes	Matanuska Susitna Basin Salmon Habitat Partnership	Tyonek Tribal Conservation District	Completed	2	$53,112	$66,454	This project will increase cataloged miles of anadromous waters in the remote western Mat-Su, providing these streams greater state protections that come with being listed. It will also increase the number of high-risk waterbodies surveyed for the presence/absence of Elodea canadensis – minimizing potential for further spread and impacts to Mat-Su Salmon. TTCD staff will survey a minimum of 15 high priority locations that are vulnerable to development and will be submitted for inclusion in the state Anadromous Waters Catalog.
Monitoring Juvenile Salmon and Stream Temperatures in the Little Susitna Watershed	2023	Yes	Yes	Yes	AK	No	Matanuska Susitna Basin Salmon Habitat Partnership	University of Alaska Anchorage	Active	3	$66,454	$60,000	This work will identify thermally optimal habitats for juvenile salmon, in addition to identifying cold water refugia, that can be used to guide conservation and development actions within the Little Susitna watershed. Project goals include (1) monitor stream temperatures in the Little Susitna watershed for a fourth year, (2) monitor juvenile salmon for a second summer season, (3) summarize relationships between stream thermal regimes and juvenile salmon abundances and growth, and (4) compare juvenile salmon data for the Little Susitna and Deshka watersheds.

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Removing Salmon Barriers Through the Mat-Su Fish Passage Program	2023	Yes	Yes	Yes	AK	No	Matanuska Susitna Basin Salmon Habitat Partnership	Matanuska Susitna Borough	Active	4	$60,000	$60,000	This project replaces one barrier to fish passage and restores access to 3.4 miles of upstream habitat and 102.4 acres of lake habitat that will increase the ability of Coho and Sockeye salmon to access key winter habitat and cold water refugia in the summer - as well as benefit smolt out during periods of low flow. The crossing has been identified as a partial barrier to juvenile salmon by the State. A new embedded culvert with a low slope and roughened riffle to reduce velocity and provide resting areas for juvenile salmon will replace the existing culvert.
Susitna Tributaries Instream Flow Protection	2023	Yes	Yes	No	AK	No	Matanuska Susitna Basin Salmon Habitat Partnership	Alaska Department of Fish and Game	-	5	$40,192	-	This project will provide long term protection to more than 12 miles of anadromous fish habitat vulnerable to development in Caswell Creek and more than 35 miles of anadromous fish habitat in other tributaries: Lilly Creek, 196 Mile Creek, and Goose Creek. It will benefit salmon and salmon-dependent fisheries, by legally reserving water needed to sustain salmon habitat and production.
Baseline Stream Temperature, Water Quality Monitoring, and Salmon Genetics in the Eklutna River	2023	Yes	Yes	No	AK	Yes	Matanuska Susitna Basin Salmon Habitat Partnership	Native Village of Eklutna	-	6	$33,558	-	This project will provide two years of important baseline temperature (loggers in 5-6 locations) and water quality data (key water quality parameters in stream temperature locations) in key habitat of the Eklutna River to help inform streamflow restoration and habitat enhancement decisions and projects in the future. Project will also obtain over 50 genetic samples from salmon to identify genetic stocks – of which none currently exist. Project results will be assessed based on meeting the following protocols
Elodea Surveys within Nancy Lake State Recreation Area	2023	Yes	Yes	No	AK	No	Matanuska Susitna Basin Salmon Habitat Partnership	Cook Inlet Aquaculture Association	-	7	$13,723	-	This project will survey for the presence of the invasive waterweed in 22 waterbodies within the high-risk Nancy Lake State Recreation Area and conduct outreach directed to recreationalists in this high-use area, benefiting coho, sockeye, pink and Chinook salmon and other native fish species.
Midwest Glacial Lakes Partnership Operations	2023	Yes	Yes	Yes	MI	No	Midwest Glacial Lakes Partnership	Michigan Department of Natural Resources	Completed	1	$60,271	$60,271	MGLP operations will continue progress toward strategic plan objectives through outreach and operation of the MGLP Lake Conservation Grant funded by NFHP/DOI.
Phase 4: Data and Approaches to Support Conservation Efforts of the Midwest Glacial Lakes Partnership	2023	Yes	Yes	Yes	MI	No	Midwest Glacial Lakes Partnership	Michigan State University	Active	2	$73,364	$133,425	Develop a database of fish survey information to conduct analyses determining how fish populations respond to changes in habitat. The database and associated viewer will promote more strategic habitat conservation by MGLP partners. This project will incorporate data for at least 5 new variables into the MGLP's lake habitat database and produce a revised Lake Conservation Planner that incorporates new habitat data, conservation assessment results, and/or functionalities for users.

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Fostering Stewardship on Michigan's Glacial Lakes	2023	Yes	Yes	Yes	MI	No	Midwest Glacial Lakes Partnership	Huron River Watershed Council	Active	3	$68,910	$68,910	Improves water quality and fish habitat on six high-priority lakes to benefit coldwater fishes such as Threatened populations of Cisco. Conduct shoreline assessments to assess conditions, prioritize conservation, and motivate landowner action. Teach lakefront property owners the connection between land and water quality. Provide free plantings and deed restrictions for conservation. Maintain long-term engagement of lake ambassadors established through the project.
Linking Forests Water & Fisheries in the Midwest Glacial Lakes Region: Building a Shared Conservation Funding Vision	2023	Yes	Yes	No	MN	No	Midwest Glacial Lakes Partnership	Minnesota Board of Water and Soil Resources	-	4	$30,000	-	The project will create a forum dedicated to sharing knowledge, strategies, and implementation processes to connect forest, water quality, and fish habitat management, which will generate a strategy for funding watershed protection and restoration projects. The project will develop a presentation and report identifying priority lakes, watersheds, and levels of forestland protection, an inventory of private forest capacity, a report with strategies for protection, two workshops, and a vision document for implementing the forested watershed conservation strategy.
Nutrient and sediment loadings in Clear Lake of Steuben County, Indiana: Water quality improvement and sustainable fish habitat	2023	Yes	Yes	Yes	IN	No	Midwest Glacial Lakes Partnership	Limnolytics, University of Minnesota	Active	5	$59,450	$59,450	This project will collect data to establish a baseline and strategy for habitat restoration and Cisco reintroduction. The project will generate valuable data on the input rate, accumulation, greatest source, and best strategic pathway for reduction of nutrient and sediment pollution that extirpated Cisco.
Remote sensing of water quality for around 37,000 lakes included within the MGLP states 2017 - 2023	2023	Yes	Yes	No	MN	No	Midwest Glacial Lakes Partnership	Limnolytics, University of Minnesota	-	6	$350,000	-	This project will develop a database of water quality measurements on 37,000 lakes within the MGLP. The project provides assessment data for more efficient and effective lake conservation prioritization and implementation as well as the basis for outreach. The project will produce water transparency, chlorophyll-a, and coarse dissolved organic matter data on 37,000 lakes at daily, monthly, and seasonal timescales.
FHP Operational Support	2023	Yes	Yes	Yes	Multiple	No	Ohio River Basin Fish Habitat Partnership	American Rivers	Completed	1	$85,000	$85,000	The ORBFHP seeks to secure these operational funds to provide needed guidance to the ORBFHP steering committee, conservation partners and to individual projects and those directly involved in executing funded habitat projects and provide the technical assistance and project management.

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Callen Run Dam Removal	2023	Yes	Yes	Yes	PA	No	Ohio River Basin Fish Habitat Partnership	American Rivers	Active	2	$169,680	-	Barrier removal will remove two obsolete dams that are blocking 12 miles of High-Quality Coldwater habitat on Callen Run, a tributary to the Wild & Scenic Clarion River. This project will restore access to high-quality aquatic habitat for mussel fish-host species and benefit robust SGCN mussel populations in the Clarion River. Barrier removal and ecosystem benefits from such action is 100% sustainable thru time.
Albright Power Dam Removal: Phase II	2023	Yes	Yes	No	WV	No	Ohio River Basin Fish Habitat Partnership	Friends of the Cheat	-	3	$59,968	-	This project will remove a barrier and conduct river habitat resulting in one aquatic organism passive barrier removed, and 74.6 river miles reconnected for fish passage (and hundreds of miles of tributaries). The connection of the Lower Cheat HUC 10 Watershed to the Cheat River's four major HUC 10 tributaries, including Shavers Fork, Dry Fork, Glady Fork, and the Blackwater River along with a minimum of two miles of reconnected mainstem exchange for local brook trout populations will occur with the removal of this barrier.
Indian Run Aquatic Organism Passage (AOP) Project	2023	Yes	Yes	No	WV	No	Ohio River Basin Fish Habitat Partnership	Friends of the Cheat	-	4	$60,000	-	The barrier removal will connect the headwaters of Indian Run through Left Fork of Clover Run, and the Clover Run mainstem, to the Cheat River (approximately 17.35 stream miles).
Whitewater River Fish Habitat Restoration	2023	Yes	Yes	No	OH	No	Ohio River Basin Fish Habitat Partnership	Ohio River Foundation	-	5	$10,000	-	Approximately, 5,000 native live stake trees and aquatic forbs will be installed along 3.3 miles of river banks of the Whitewater River in Hamilton County, OH.
Eelgrass (Vallisneria Americana) restoration in the Eel River of northern Indiana	2023	Yes	Yes	Yes	IN	No	Ohio River Basin Fish Habitat Partnership	Ecosystems Connections Institute	Active	6	$35,000	$35,000	The purpose of this project is to examine the efficacy of using previously collected data to test the minimum viable population to establish new areas of Eelgrass at two locations. Previous fish sampling over remnant Eelgrass indicates drastic increases in fish abundance and variety associated with Eelgrass beds This study is critically important as a scientific approach to better understand the efficacy of eelgrass reintroduction potential in Midwest streams and beyond.
Sidney, OH Water Intake Dam Modification	2023	Yes	Yes	No	OH	No	Ohio River Basin Fish Habitat Partnership	Flatland Resources	-	7	$246,000	-	This project replaces one barrier to fish passage and opens 30 mainstem river miles of upstream habitat to priority species of the ORBFHP and many miles of tributaries. This riffle will be graded at ~3% to allow for fish passage and recreational paddlers passage. This modification will increase in quantity and number of aquatic species found upstream of dam, increase number of recreationalists utilizing this stretch of the river, Eliminate deaths of recreationalists, and increase structural stability of dam.

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Hydrologic Restoration of Cooper Creek	2023	Yes	Yes	No	OH	No	Ohio River Basin Fish Habitat Partnership	Hamilton Soil and Water Conservation District	-	8	$168,380	-	This project will address hydrologic alteration (HA) by restoring a more natural runoff regime from the most intensely developed properties in the watershed. Expansion of the service areas basin from 9.8 acres to 18.9 acres. Doing so will limit peak discharge rates during a 2-year, 24-hour storm event to 40% pre-development levels. This outcome will stabilize sediment and limit bed mobilization, leading to improved habitat conditions for fishes, freshwater mussels and macroinvertebrate community while reducing pollutants and limiting sediment loads downstream.
Connecting Dam Owners with Sponsors & Removal/Modification Funding	2023	Yes	Yes	No	IN	No	Ohio River Basin Fish Habitat Partnership	Flatland Resources	-	9	$40,000	-	This project will foster additional resources by connecting dam owners with sponsors to remove or modify these structures and create a path forward for the most cost effective and efficient means to do so.
Sauger Recruitment	2023	Yes	Yes	No	WV	No	Ohio River Basin Fish Habitat Partnership	West Virginia University	-	10	$77,727	-	This project has will assess the influence of pool-specific flow regimes on young-of-year production and year class strength
PLCI Coordination & Operational Support	2023	Yes	Yes	Yes	AK, CA, ID, OR, WA	No	Pacific Lamprey Conservation Initiative	Pacific States Marine Fisheries Commission	Completed	1	$85,000	$85,000	This project provides coordination and operational support of PLCI's various activities and initiatives in support of its mission to achieve long-term persistence of Pacific Lamprey, their habitats, and support their traditional tribal use across their historical range (AK, CA, ID, OR, and WA).
Distribution and Life History of Larval and Spawning-Stage Pacific Lamprey in the Susitna River Drainage (AK)	2023	Yes	Yes	No	AK	No	Pacific Lamprey Conservation Initiative	University of Alaska-Fairbanks (UAF)	-	1	$25,000	-	This study will contribute to the literature on critical habitat needs for larval and adult Pacific Lamprey but will provide a benchmark from which to evaluate changes in habitat quality and lamprey distribution within this poorly studied RMU. Observations of Pacific Lamprey within these systems will be nominated to the Anadromous Waters Catalog, providing additional level of protection for water bodies that provide critical rearing and spawning habitat for anadromous fishes.
Scott Valley, Klamath Basin, Lamprey Passage, Habitat Evaluation and Public Outreach	2023	Yes	Yes	Yes	CA	No	Pacific Lamprey Conservation Initiative	Scott River Watershed Council	Active	2	$21,631	$21,631	Project will remediate the lamprey passage barrier at Youngs Dam on the Scott River (specifically identified in the California North Coast Regional Implementation Plan) increasing accessibility to 30% of the Scott Watershed for lamprey spawning and rearing. The overarching goal is to improve lamprey access to 2/3 of the Scott Watershed while improving the understanding of their habitat utilization and increasing public and landowner support for lamprey restoration.

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West Fork Smith River & Coon Creek Lamprey Passage and Channel Improvement	2023	Yes	Yes	Yes	OR	No	Pacific Lamprey Conservation Initiative	Smith River Watershed Council	Active	3	$50,000	$50,000	Removing the concrete sills and replacing the culvert at the mouth of Coon Creek, along with the instream channel structures in the West Fork Smith River (WFSR), will provide uninhibited passage for Pacific Lamprey, improve instream habitat, and increase access to spawning grounds. The culvert replacement will ensure continuous surface flow and allow lamprey access to Coon Creek during all flows.
Integrating Lamprey into Restoration Projects & Lamprey ID Workshop Series in Washington & Alaska	2023	Yes	Yes	Yes	WA & AK	No	Pacific Lamprey Conservation Initiative	Pacific Lamprey Conservation Initiative	Active	4	$85,000	$85,000	The integration of Pacific Lamprey, and other native lamprey species, into restoration actions and conservation activities is a top priority of PLCI's LTWG Restoration Subgroup – and has been identified as a particular need in the Washington Coast/Puget Sound and Alaska RMUs. Many of the restoration actions and conservation activities that typically occur in these regions are focused on salmonids, and often conservation work that is funded and/or designed for salmonid recovery could also benefit lamprey if they are properly considered.
San Luis Obispo Pacific Lamprey Monitoring & Outreach	2023	Yes	Yes	Yes	CA	No	Pacific Lamprey Conservation Initiative	Tenera Environmental	Active	5	$20,160	$20,160	San Luis Obispo Creek (SLOC) represents the southern extent of a watershed with a viable Pacific Lamprey population, and was the first water body nominated by PLCI to NFHP's annual list of Waters to Watch in 2020 due to the success of a previous project documenting successful recolonization following remediation of a passage barrier. This project will build off previous monitoring efforts and expand them into nearby watersheds, documenting their current status and improving understanding of the extent of Pacific Lamprey recolonization and recovery in SLOC.
Salmon River Lamprey Distribution and Habitat Assessment	2023	Yes	Yes	Yes	CA	No	Pacific Lamprey Conservation Initiative	Salmon River Restoration Council	Active	6	$45,848	$48,848	Historical abundance in the Salmon River subbasin is unknown, but recollections from tribes and anecdotes from local residents suggest that Pacific Lamprey have declined considerably since the 1970s. The Salmon still supports an active tribal fishery with families continuing to rely on lamprey for subsistence. As one of the last remaining undammed rivers in the West, the information gathered through this assessment of the Salmon River is critical to ensuring that it is managed and restored in a way that sufficiently supports lamprey species.

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Assessing the Potential for Lamprey Recovery in Key Perennial Tributaries of the Napa River	2023	Yes	Yes	No	CA	No	Pacific Lamprey Conservation Initiative	Napa County Resource Conservation District (Napa RCD)	-	7	$30,000	-	This project addresses critical knowledge gaps necessary to recover lampreys in the Napa River watershed by assessing the restoration potential for lamprey recovery in key perennial tributaries of the watershed: Napa Creek and the upper Conn Creek watershed. The Napa River supports Pacific, River, and Brook lamprey species and while significantly altered, major restoration efforts have improved habitat quality throughout the watershed to support an intact native fish community. Conn Dam prevents lamprey from accessing ~42.6 km of historical habitat, and an unknown factor is preventing lamprey from establishing in Napa Creek.
Upper Hayfork Creek Lamprey Passage and Habitat Assessment	2023	Yes	Yes	No	CA	No	Pacific Lamprey Conservation Initiative	Watershed Research and Training Center (WRTC)	-	8	$46,529	-	Hayfork Creek is a major tributary to the undammed South Fork Trinity River, the southernmost watershed in the Klamath Basin still accessible and occupied by Pacific Lamprey, however, the Hayfork Creek falls fish ladder is a barrier to upstream migration of adult Pacific Lamprey. Hayfork Creek historically supported anadromous species including Pacific Lamprey, however since the installation of the fish ladder lamprey presence has not been recorded above the falls. Improving lamprey passage could provide access to 9.3 kilometers of habitat that could provide refugia from negative impacts associated with long-term environmental change.
Lamprey BACI Study and Education & Outreach in South Fork Eel River	2023	Yes	Yes	No	CA	No	Pacific Lamprey Conservation Initiative	Salmonid Restoration Federation	-	9	$34,193	-	Pacific Lamprey are widespread in the South Fork Eel River watershed, including Redwood Creek (focus area of this project). This project would build off restoration efforts already funded and underway by the project lead and partners to consider and incorporate the needs of lamprey. The proposed before-after-control-impact (BACI) study, with accompanying outreach to salmonid restoration professionals, will benefit all lamprey life stages in the river, and provide information and resources that can be used in this region and beyond.
PMEP Operations	2023	Yes	Yes	Yes	OR	No	Pacific Marine and Estuarine Fish Habitat Partnership	Pacific States Marine Fisheries Commission	Completed	1	$85,000	$85,000	Through its operations, PMEP supports on-the-ground restoration and assessment projects designed to protect and restore estuary and nearshore habitats and restore connectivity between habitats. PMEP also supports the compilation and dissemination of spatial data on estuary and nearshore fish habitat all along the U.S. West Coast for the purposes of resource, resource management, and habitat restoration planning. PMEP's work include publication of documents designed to improve restoration successes, such as the recently published Eelgrass Restoration on the U.S. West Coast: A Comprehensive Assessment of Restoration.

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Flower Pot Creek Fish Passage and Tidal Reconnection Project	2023	Yes	Yes	Yes	OR	No	Pacific Marine and Estuarine Fish Habitat Partnership	Trout Unlimited	Active	2	$74,500	$74,500	This project will improve connectivity to approximately 1.4 stream miles and 14.6 acres of tidally influenced wetland. We will replace an undersized, deteriorating culvert with a bridge and streambed simulation. This will correct a fish passage barrier and allow for natural tidal and steam functions to occur. This culvert is highly ranked on the Salmon SuperHwy priority list and the adjacent wetlands are ranked medium-high priority in the Tidal Wetlands Prioritization for Tillamook Bay.
Smith River Estuary Backwater Habitat Enhancement Project (Tedsen Backwater)	2023	Yes	Yes	Yes	CA	No	Pacific Marine and Estuarine Fish Habitat Partnership	Smith River Alliance	Active	3	$49,169	$49,169	The project will enhance a naturally occurring backwater feature on the south bank of the Smith River estuary, benefitting three PMEP focal species: Southern Oregon and Northern Coastal California ESU Coho Salmon, SONCC Chinook Salmon, and Klamath Mountain Province Steelhead. The project will increase channel complexity along the mainstem Smith. River and addresses impaired estuary function by increasing the quantity and quality of off-channel slow water rearing habitat and benefit up to 8,000 out-migrating Coho Salmon smolts. Tidally influenced backwater habitat is extremely beneficial but rare in the Smith River estuary and this project will improve connectivity to this limited habitat.
Clayton Beach Nearshore Restoration Project	2023	Yes	Yes	Yes	WA	No	Pacific Marine and Estuarine Fish Habitat Partnership	Northwest Straits Marine Conservation Foundation	Active	4	$70,000	$70,000	The project seeks to address prey species availability through restoration of coastal processes and forage fish spawning habitats. Failed and unnecessary armor is burying spawning habitat of surf smelt and sand lance, two critical prey species for salmonids and marine birds. Estimates of sea-level rise suggest that on beaches with armored shoreline, substantial forage fish spawning habitat could be lost in the next few decades, and most might be lost by 2100. The project will restore coastal and biological processes and functions via the removal of 1,200LF of riprap and derelict pilings to restore sediment transport processes, tidal hydrology, and fish use along the shoreline.
Blowers Ranch Morton Creek Restoration	2023	Yes	Yes	Yes	OR	No	Pacific Marine and Estuarine Fish Habitat Partnership	Curry Soil and Water Conservation District	Active	5	$69,246	$69,246	The Curry Watersheds Partnership (CWP) have implemented over a 1,000 watershed restoration projects over the last 25 years, ranging from riparian restoration to channel reconstruction. Their experience includes every aspect of the Blowers Ranch project. Swanson Ecological Services, LLC (SES) is managing the Blowers Ranch project on behalf of the Curry SWCD. SES is a watershed restoration and natural resource management company located in Langlois, Oregon that provides grant writing, project development, design, implementation, and monitoring services. SES has contracted to the CWP since 1998 and is currently on retainer to provide technical services and project management.

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Reservoir Fisheries Habitat Partnership Coordination and Operational Support	2023	Yes	Yes	Yes	All	No	Reservoir Fisheries Habitat Partnership	Reservoir Fisheries Habitat Partnership	Completed	1	$85,000	$85,000	RFHP was recognized by the NFHP Board in October 2009. Since that time RFHP has administered 55 projects in 19 states. RFHP Coordinator has been the author (with project leader review) of most of the documents required for project approval. Coordination funding is essential for all projects that provide ecological benefits to reservoir systems.
Pymatuning Shoreline Stabilization and Fish Habitat	2023	Yes	Yes	Yes	PA	No	Reservoir Fisheries Habitat Partnership	Pymatuning Lake Association	Completed	2	$75,000	$75,000	The project will stabilize highly erodible shoreline and restore structural habitat in a high public use state park. The riparian buffer will filter and slow storm water runoff and provide shade at the edge of the lake. The shoreline project will stabilize 900 linear feet of lake shore. The deflectors and rock rubble humps will provide 13,500 square feet of stabilization and rock fish habitat. The riparian buffer will improve 45,000 square feet of shoreline. The 150 proposed short vertical plank structures will provide 2,400 square feet of new wood fish habitat.
Lake Shelbyville Fish Habitat Development and Restoration Project	2023	Yes	Yes	Yes	IL	No	Reservoir Fisheries Habitat Partnership	Lake Shelbyville Fish Habitat Alliance	Completed	3	$30,000	$30,000	The project will continue to build on structure enhancement (sampling has demonstrated high fish use) and evaluate innovative methods to try to establish native aquatic vegetation under difficult environmental conditions.
Rend Lake Fish Habitat Development and Shoreline Protection / Restoration Project	2023	Yes	Yes	Yes	IL	No	Reservoir Fisheries Habitat Partnership	US Army Corps of Engineers	Completed	4	$40,000	$40,000	USACE will use Stone Toe Protection methods to reduce wave action on 26,000 ft2 of eroded shoreline. Bald cypress trees will be planted behind the STP to further stabilize the bank. An additional 70,000 ft2 of shoreline will be planted with native aquatic and wetland plant species. The bank stabilization will reduce localized sedimentation and turbidity. USACE is using herbicide to reduce abundance of common reed. Native vegetative plantings between the rock revetment and the bank will provide competition for the common reed and improve nursery cover for several species of sport and forage fishes.
Three-Mile Lake Restoration Project	2023	Yes	Yes	Yes	IA	No	Reservoir Fisheries Habitat Partnership	Iowa Department of Natural Resources	Completed	5	$40,000	$40,000	Water quality issues are derived from non-point pollution sources from the watershed especially sediment erosion, excess nutrients and pesticides, and bacteria from livestock operations. A comprehensive watershed management plan has been developed and a complete restoration of the lake has begun. Sediment catch basins will be constructed in the watershed, over 1300 feet of eroding shorelines stabilized and existing fishing jetties will be enhanced. NFHP funding will be used to provide structural habitat to the lake basin. The Creston area lakes draw in 175,872 visits annually and support over 200 local jobs and result in $16.7 million in direct spending. Anglers spent 35,591 hours fishing the Creston area lakes in 2016 with an average trip cost of $142/trip. Fishing was the top reason for visiting the Creston area lakes.

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Farms and Fish: utilizing water-saving technology to improve sport fish habitat, water quality, environmental adaptation, and economic opportunity for Island Park Reservoir and the Henry's Fork of the Snake River, Idaho	2023	Yes	Yes	Yes	ID	No	Reservoir Fisheries Habitat Partnership	Henrys Fork Foundation	Active	6	$50,000	-	System and RFHP funding will continue our research and drought mitigation efforts that have already proven effective for conserving and restoring important sportfish in Island Park Reservoir. Each Farms and Fish project results in an exponential increase in sportfish populations; 1,000 acre-feet saved in Island Park Reservoir due to this Farms and Fish project or Precision Management results in an approximate 5% cumulative "return" for fish populations. Outcomes of this project will result both in scientific advances as well as effective conservation and improvement of sportfish populations.
McFarland Lake Restoration	2023	Yes	Yes	No	IA	No	Reservoir Fisheries Habitat Partnership	Story County Conservation	-	7	$75,000	-	This projects number one objective is to improve water quality of McFarland Lake. Once the lake restoration is complete, a sustainable fishery will be managed through SCC and the IDNR.
Salmon Creek Fish Habitat Improvement Project	2023	Yes	Yes	Yes	PA	No	Reservoir Fisheries Habitat Partnership	US Army Corps of Engineers	Completed	8	$74,480	-	Whereas the focus of this project is in-stream habitat development, approximately 750 feet of eroded streambank will be stabilized. Instream habitat for cold and cool-water species will be improved and streambank stabilization will reduce nutrient and sediment input into the reservoir.
Lake Red Rock Fish Habitat Development and Restoration Project	2023	Yes	Yes	No	IA	No	Reservoir Fisheries Habitat Partnership	Red Rock Lake Association	-	9	$52,500	-	The AMMP provides for habitat restoration initiatives which will benefit aquatic and terrestrial species alike. Currently, Lake Red Rock is one of four designated SRP Science project sites. SRP is funding the Iowa State University Cooperative Research Unit to conduct a 2-year research program associated with the fisheries, mussels, and their habitat in the Des Moines River, with the goal of evaluating how fisheries and mussel resources respond to the operations of Red Rock Dam. In a complimentary effort, the Corps of Engineers has partnered with the Natural Resources Conservation Service to find ways to reduce nutrient inputs into the lake.
John Martin Reservoir Riverside Restoration Initiative	2023	Yes	Yes	No	CO	No	Reservoir Fisheries Habitat Partnership	US Army Corps of Engineers	-	10	$50,000	-	This project will remove 35 acres of invasive tamarisk, 40 acres of wetland will be protected and revegetated with native species, and 4,000 feet of riverbank protected from channelization, increased soil health, and an improved water regime.
SARP Operations	2023	Yes	Yes	Yes	SE Region	No	Southeast Aquatic Resources Partnership	Southeast Association of Fish and Wildlife Agencies	Completed	1	$85,000	$85,000	Conservation strategies outlined in regional SAHP and national NFHAP aquatic habitat plans will be implemented in the southeast region by leveraging the administration and operations from this agreement to implement on-the-ground actions that will improve aquatic habitats and secure external funding through competitive awards.

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Aquatic Habitat Restoration and Fisheries Improvement in the Guadalupe River Watershed, Lake Dunlap	2023	Yes	Yes	No	TX	No	Southeast Aquatic Resources Partnership	Texas Parks and Wildlife Department	-	2	$73,491	-	The project will enhance 410-acres of wetland reservoir habitat. Objective-based sampling will be utilized to monitor changes in fish population dynamics such as relative abundance, size composition, body condition, and growth. In-reservoir and shoreline physical habitat enhancement project areas will be circumnavigated to delineate restoration boundaries and monitored to assess restoration success (i.e., restoration native planting expansion) or failure (restoration native planting contraction). Side scan sonar will be utilized to assess fish structures placed in the lakebed.
Restoring Oyster and Salt Marsh Fish Habitat with Living Shorelines at the N.C. Aquarium	2023	Yes	Yes	Yes	NC	No	Southeast Aquatic Resources Partnership	North Carolina Aquarium	Active	3	$43,560	$43,560	The living shoreline will reduce wave energy and hold sediment, restoring salt marsh and oyster habitat that has eroded through the years. In addition to fish habitat and water quality benefits, the proposed living shoreline at this location will protect the saltwater intake infrastructure of the aquarium, an important public, educational and economic resource critical for fish and other organisms. The 350-ft living shoreline sill will be built parallel to ensure maximum oyster recruitment.
SEAKFHP Coordination and Operations	2023	Yes	Yes	Yes	AK	No	Southeast Alaska Fish Habitat Partnership	Trout Unlimited	Completed	1	$85,000	$85,000	The Southeast Alaska Fish Habitat Partnership (SEAKFHP) brings together partners utilizing the framework created under the National Fish Habitat Action Plan (NFHAP) to collaboratively improve freshwater and coastal fish habitats across Southeast Alaska. The partnership was initiated from an early working group in 2011, received formal recognition from the National Fish Habitat Partnership (NFHP) Board in 2014, and has evolved into a robust regional forum providing key services to a broad set of partners across Southeast Alaska
SEAKFHP NFHP-Funded Projects Administration	2023	Yes	Yes	No	AK	No	Southeast Alaska Fish Habitat Partnership	Trout Unlimited	-	1	$25,000	-	Each SEAKFHP/NFHP-funded project includes some form of ecological benefit; this project in essence executes the project and thereby fosters the same ecological outputs. This project in essence executes the project and thereby fosters the same measurable goals and objectives.
TWC Ecosystem-Based Conservation Plan for the Greater Chilkat Watershed: $70K requested	2023	Yes	Yes	Yes	AK	Yes	Southeast Alaska Fish Habitat Partnership	Chilkoot Indian Association, Chilkat Indian Village	Active	2	$70,000	$70,000	This project will generate a comprehensive watershed plan with extensive vegetation, wetland, and fish and wildlife habitat maps and associated information that can be shared with others, independent of the conservation plan itself. An ArcGIS Online platform is already forming for sharing this growing dataset with project partners.

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ADFG Instream Flow Protection in Southeast Alaska	2023	Yes	Yes	Yes	AK	No	Southeast Alaska Fish Habitat Partnership	Alaska Department of Fish and Game	Active	3	$72,712	$72,712	This project will use streamflow data collected at the existing ADF&G Freshwater Bay, Central Prince of Wales Island, and Davies Creek stream gauge and discharge station networks to prepare 10 Reservations of Water (ROW) applications. Completed ROW applications will be submitted to the Alaska Department of Natural Resources (ADNR) for reaches of Freshwater Creek (and tributary), Kennel Creek, Pavlof River, Davies Creek, Cowee Creek, Control Creek, Luck Creek (and tributary), Eagle Creek, Ratz Creek, and Log Jam Creek.
SAWC Fish Habitat and Restoration Assessments: Filling Gaps in Southeast Alaska	2023	Yes	Yes	Yes	AK	No	Southeast Alaska Fish Habitat Partnership	Southeast Alaska Watershed Coalition	Active	4	$50,000	$50,000	This project will focus on conducting watershed assessments in Gustavus (HUC8 19010302), Yakutat Forelands (HUC8 19010405), and Ketchikan Area (HUC8 19010102) of Southeast Alaska. These areas are prioritized due to high-value habitat, assessment gaps or a lack of previous assessment work, land ownership, and land management activities. It is anticipated that this project will result in over 500 acres and 650 miles of anadromous salmon stream under improved management.
TU AK Fish Habitat Mapping and Community Science Project	2023	Yes	Yes	Yes	AK	No	Southeast Alaska Fish Habitat Partnership	Trout Unlimited	Completed	5	$50,300	$50,300	Through the work of the project anadromous fish habitat identified in the survey area will qualify for recognition in the State of Alaska's Anadromous Waters Catalog (AWC) and, as a result, will receive additional protections under state law. As a result of these protections, anadromous habitat across SE Alaska will remain intact and connected, allowing the best possible future for salmon and other anadromous species to thrive.
SAWC Building Green Stormwater Infrastructure Capacity in Southeast Alaska	2023	Yes	Yes	No	AK	No	Southeast Alaska Fish Habitat Partnership	Southeast Alaska Watershed Coalition	-	6	$31,020	-	This project is expected to benefit all species of freshwater and nearshore fishes that use urban watersheds during their life history. The magnitude of benefit will depend on the existing pollutant concentrations, the susceptibility of different species and life history stages to those pollutants, and the degree to which stormwater pollution can be managed by GSI. As increased knowledge of GSI improves in this region, each implemented GSI has the potential to create both short-term and long-term benefits for fish and fish habitat. Every effective GSI that is implemented will have an immediate and incremental positive impact on water quality by capturing harmful stormwater pollutants. Short-term benefits include reducing pollutant levels that are associated with acute impacts on fish.
City and Borough of Sitka Peterson Creek Fish Passage Barrier Removal	2023	Yes	Yes	No	AK	No	Southeast Alaska Fish Habitat Partnership	City and Borough of Sitka	-	7	$50,000	-	Barrier removal will make 2.8 miles of upstream habitat accessible for chinook and coho salmon.

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Partnership Coordination	2023	Yes	Yes	Yes	AK	No	Southwest Alaska Salmon Habitat Partnership	Bristol Bay Heritage Land Trust	Completed	1	$85,000	$85,000	The salmon and other freshwater fish of Bristol Bay will benefit from a strong regional land trust and a fully functioning FHP. Evidence of such benefit is the creation of the Bristol Bay Fly Fishing & Guide Academy by BBHLT, the coordination of the annual Southwest Alaska Interagency Meeting and the successful negotiation of a conservation easement deal with Pedro Bay Native Corporation in 2021 to protect 44,000 acres of habitat critical for the spawning and rearing of sockeye salmon that return to Lake Iliamna. BBHLT is now engaged in a fundraising campaign, with partner The Conservation Fund, to raise $18.3 million dollars by December of 2022 to purchase the easement.
Instream Flow Protection for Aniak River	2023	Yes	Yes	Yes	AK	Yes	Southwest Alaska Salmon Habitat Partnership	Alaska Department of Fish and Game	Active	2	$66,572	$66,572	This project is designed to provide statutory protection under Alaska's unique water law to preserve the habitat-forming processes in the Aniak River watershed. Stream flow data collected will be used to establish a priority reservation of water levels for fish, levels that are critical for continued ecological function and connectivity in this watershed.
Salmon River Anadromous Fish Assessment	2023	Yes	Yes	No	AK	No	Southwest Alaska Salmon Habitat Partnership	US Fish and Wildlife Service, Togiak National Wildlife Refuge	-	3	$38,375	-	By monitoring distribution and abundance of anadromous fish in the Salmon River watershed, this project will produce information that can be directly used by Refuge managers and regulatory agencies to develop permit stipulations designed to protect and conserve both fish and their habitat
Nuyakuk Fish and Habitat Assessment	2023	Yes	Yes	No	AK	No	Southwest Alaska Salmon Habitat Partnership	Nushagak Electric Co-operative	-	4	$100,000	-	The fish and fish habitat of the Nuyakuk River is relatively understudied. By assessing the distribution and abundance of resident and anadromous fish in the Nuyakuk River the project will produce information that can be directly used by the Co-operative, federal regulators and the people of the region to determine whether an in-river hydroelectric plant can be built without serious harm to fish and fish habitat. If the project is not built the information obtained will still be useful for managers and regulatory agencies charged with protecting fish and fish habitat on the river.

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Western Native Trout Initiative FY23 Operational Support	2023	Yes	Yes	Yes	CO	No	Western Native Trout Initiative	Western Association of Fish and Wildlife Agencies	Completed	1	$85,000	$85,000	Covering over 1.75 million square miles of public and privately managed lands, WNTI and its partners combine science-based assessments along with expert and local knowledge to establish joint priorities for native trout conservation at a landscape scale. Project activities include coordination, facilitation, project development/implementation/administration; outreach and education activities and products; social media strategies; professional and public events; and WNTI's 12 state Western Native Trout Challenge. WNTI performs an annual evaluation against performance metrics related to coordination, administration, fundraising, and outreach/communications. An annual report is produced each year and published on WNTI's website. Other annual reports include a State of the Initiative report for WAFWA and an annual report for NFHP.
Reconnecting Canyon Creek	2023	Yes	Yes	Yes	ID	No	Western Native Trout Initiative	Friends of the Teton River	Completed	1	$50,000	$50,000	Project improves irrigation infrastructure and points of diversion in a century old concrete canal system to restore 10,680 acre-feet of instream flow annually, re-connecting 45 miles of historically productive fish habitat, while providing greater water supply reliability downstream. Project permanently closes the main diversion to restore 10.2 miles of natural creek flow, providing ecological benefit for a core conservation population of Yellowstone Cutthroat Trout, while restoring ecosystem function at a landscape scale.
River Bend Ranch Restoration and Passage Project Phase 2	2023	Yes	Yes	Yes	WY	No	Western Native Trout Initiative	Trout Unlimited	Completed	2	$40,000	$40,000	This project is a collaborative effort to improve floodplain, riparian function, and bank/channel stability to benefit a genetically pure, self-sustaining population of Snake River Yellowstone Cutthroat Trout. Phase 1 removed two seasonal fish passage barriers. Phase 2 restores 2.5 miles of river corridor using the river's ecological processes to address collective impacts from cattle grazing, elk browse, diversions and dikes.
Restoring the Northern Extent of Coastal Cutthroat Habitat in the Copper River Watershed, AK	2023	Yes	Yes	Yes	AK	No	Western Native Trout Initiative	Copper River Watershed Project	Completed	3	$46,750	$46,750	Project replaces an undersized, failing culvert impacting connectivity to the entire Copper River delta and a passage barrier to an estimated 3.2 stream miles of upstream habitat and 12 acres of lake habitat for Coastal Cutthroat Trout, Dolly Varden, (and Coho Salmon) spawning and rearing. The barrier, rated Red by ADF&G fish passage criteria, disrupts natural hydrology and is currently the highest priority for removal on the Copper River Highway based on a prioritization tool developed with ADF&G, USFWS and other partners. Project replaces the culvert with a channel spanning structure, providing unimpeded access for all aquatic organisms. Project deliverables also include 2 population assessments and habitat assessments of 6 stream miles.

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South Flat Creek Channel Restoration Phase 2	2023	Yes	Yes	Yes	WY	No	Western Native Trout Initiative	Wyoming Game and Fish Department	Completed	4	$50,000	$50,000	Project is Phase 2 of a collaborative effort to restore 1.2 miles of habitat on a first order tributary to the Snake River to benefit Yellowstone Cutthroat Trout. Phase 2 objectives consist of approximately 0.6 miles of priority II stream restoration, channel and floodplain grading and fish passage. Plans include two outside meander bends finished with soil lifts and plantings, four toewood bends, two reinforced livestock crossing riffles and four engineered riffles. Extensive use of native vegetation and bioengineering is incorporated.
Implementing Actions to Recover Native Lahontan Cutthroat Trout in the Upper Walker Basin	2023	Yes	Yes	Yes	CA	No	Western Native Trout Initiative	California Trout	Completed	5	$55,666	$55,666	Extensive efforts to remove non-native Brook Trout over three decades with rotenone, traps, and electrofishing have been ineffective. Recent pilot efforts by CDFW based on successful methods used for Owens Pupfish restoration have successfully de-watered small reaches of Lahontan Cutthroat Trout (LCT) habitat, followed by electrofishing to extirpate Brook Trout from treated areas, improving removal efficiency by over 300%. Project is a one-year segment on 3 miles of stream with a multi-year goal of restoring 11.5 miles of critical LCT habitat. A sizable LCT population is already established and once restored, Silver Creek will hold one of largest populations of Walker River LCT.
Clear Fork of Muddy Creek Cutthroat Restoration Barrier Project	2023	Yes	Yes	Yes	CO	No	Western Native Trout Initiative	Trout Unlimited	Completed	6	$35,000	$35,000	Project will restore and protect a healthy conservation population of native green lineage Colorado River Cutthroat Trout (CRCT) by constructing one permanent barrier to protect 13 miles of stream habitat on USFS lands in SW Colorado from invasive non-native Brook Trout. This CRCT population contains the unique "Twin Creek" haplotype as well as strong genetic variety and has potential to restore the historic meta-population through the drainage.
Thomas Fork Ranch Diversion Rebuild	2023	Yes	Yes	No	ID	No	Western Native Trout Initiative	Idaho Dept of Fish and Game	-	7	$50,000	-	Removal of a full-span dilapidated concrete diversion on the lower Thomas Fork near the confluence with the main stem of the Bear River will provide access to over 175 miles of spawning habitat for resident and fluvial Bonneville Cutthroat Trout (BCT). This project replaces an existing, failing irrigation diversion structure with a new structure, headgates, and larger bypass channel to facilitate upstream and downstream movement by BCT.

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Mill Creek Fish Barrier	2023	Yes	Yes	No	MT	No	Western Native Trout Initiative	USFS: Custer Gallatin National Forest	-	8	$100,000	-	Project constructs a concrete fish barrier at one of two potential barrier sites to secure the entire Upper Mill Creek subwatershed as a stronghold for core YCT populations. The Upper Yellowstone GMU considers this project among its highest priorities for YCT conservation. The objective is to construct a cast-in place concrete with a double drop design fish barrier that protects between 10.3 and 13.9 interconnected YCT-bearing stream miles (depending on the final barrier location); equal to 23% (upper barrier site) or 31% (lower barrier site) of the total YCT occupied stream miles (44.9) in the Mill Creek drainage above the national forest boundary.
Fall Creek Barrier - San Juan Lineage Colorado River Cutthroat Trout	2023	Yes	Yes	No	CO	No	Western Native Trout Initiative	Colorado Trout Unlimited	-	9	$25,000	-	The Fall Creek SJCT population exists in a short reach between a 105-foot natural waterfall and a steep and lengthy culvert under a major highway that has isolated the approximately ¼ mile habitat patch from downstream non-native fish. Project objective is to build a stacked block waterfall-type fish migration barrier in Fall Creek upstream of its confluence with Wolf Creek, adding roughly 1,000 linear feet of available stream habitat, as well as providing more habitat variety beyond the current limited step-pool section above the highway.
5 Bar 6 Mill Creek Restoration Project	2023	Yes	Yes	No	MT	No	Western Native Trout Initiative	Trout Unlimited	-	10	$44,000	-	Restoration objectives include installation of 10-15 engineered log jams creating 10-15 new pools, breaching two earthen push-up berms (dikes) reconnecting access to side channel habitats, reconnection of 20 acres of historic floodplain to improve groundwater recharge and storage.
Little Lime Creek Colorado River Cutthroat Trout Barrier Project	2023	Yes	Yes	No	CO	No	Western Native Trout Initiative	Colorado Parks and Wildlife	-	11	$50,000	-	Construction of a primary barrier at Crooked Creek Reservoir's dam and a secondary barrier downstream will prevent reinvasion from downstream fish, decrease the proximity of Whirling Disease infected sportfish from the reclaimed stream and reservoir, and provide redundant protection should one barrier fail. Two velocity-type barriers have been designed for the Little Lime complex utilizing a weir and sloped apron design that utilizes high-velocity shallow water below a vertical step to prevent fish movement upstream. The secondary barrier allows for downstream removal of non-native fish and removes a potential source for bait bucket introduction during the period needed to break the life-cycle of the WD parasite. Success will be evaluated by CPW and the USFS to validate that fish passage conditions have been met as designed.

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Evaluating the Role of Spring-fed Streams to Yellowstone Cutthroat Trout	2023	Yes	Yes	No	WY	No	Western Native Trout Initiative	Wyoming Coop Fish and Wildlife Research Unit, University of Wyoming	-	12	$44,202	-	This project evaluates the role of spring-fed streams to Yellowstone Cutthroat Trout (YCT) in the upper Snake River watershed of northwest Wyoming. Project assesses four watersheds and 50 YCT populations.
eDNA & lamprey bile acids monitoring to assess the impacts of adult translocation in the Upper Columbia Basin above Wells Dam	2023	Yes	Yes	No	WA	Yes	Pacific Lamprey Conservation Initiative	Yakama Nation Fisheries	-	10	$27,885	-	The Wells Aquatic Settlement Work Group reached a Statement of Agreement (SOA) in 2018 to commence adult Pacific Lamprey (PL) translocation work for a minimum of four years between 2018 and 2021 with the goal of translocating up to 1,000 adults per year. Environmental DNA (eDNA) monitoring was successfully conducted in2018 to analyze the overall signals of PL within the Upper Columbia Wells Project Area in comparison with Lower and Mid-Columbia reference sites (Lampman andLumley 2020). Thirty-one samples were collected in the Columbia River Basin (CRB) between river km 229.4 (Bonneville Dam tailrace) and 864.8 (downstream of Chief Joseph Dam) in fall 2018. The years 2021-2022 would mark 3-4 years after the start of the collaborative adult translocation project and we plan to revisit these sites to assess changes in PL distributions and DNA quantity (a coarse proxy for abundance) following translocation efforts. eDNA sampling will occur in fall 2021, spring 2022,and fall 2022 at the abovementioned sites in addition to 16 supplemental sites. To better understand the relationship between the lamprey pheromones (bile acids) andeDNA, the concentration of petromyzonol sulfate (a proven crucial lamprey bile acid for migration) will be assessed at a subset of the eDNA sites identified above.
Metlakatla Indian Community Fish Passage Improvements	2023	Yes	Yes	Yes	AK	Yes	Southeast Alaska Fish Habitat Partnership	Metlakatla Indian Community	Completed	NA	$95,975	$95,975	Restoring bi-directional fish passage is critical to maintaining stocks of anadromous Pacific salmon. This project will fund engineering designs for 2 culverts that currently restrict fish passage for Coastal cutthroat trout, Dolly Varden Char, Coho Salmon, and Pink Salmon on Graveyard Creek, located on Annette Islands Reserve. This is the only Native American reservation in the State of Alaska and is home to the village of Metlakatla and the Metlakatla Indian Community (MIC) who rely on local salmon stocks for their robust commercial fishing industry and for subsistence harvest. This project will produce shovel ready engineers designs that will be used to leverage future Infrastructure BIL funding for implementation. This project helps set the stage for building local technical expertise and capacity to address fish passage needs across Annette Island through a new partnership between the MIC, Southeast Alaska Watershed Coalition (SAWC), and the U.S. Fish and Wildlife Service (USFWS).

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Engaging Tribal and Community Partners for Salmon Habitat Hand Tool Restoration in the Margaret Creek Watershed, Tongass National Forest	2023	Yes	Yes	Yes	AK	Yes	Southeast Alaska Fish Habitat Partnership	Ketchikan Indian Community	Completed	NA	$70,023	$70,023	The Ketchikan Indian Community (KIC), Southeast Alaska Watershed Coalition (SAWC), and US Forest Service (FS) are partnering to restore habitat for four species of salmon, trout, and char in the Margaret Creek Watershed on the Tongass National Forest, Southeast Alaska. This project will restore fish habitat by utilizing hand tool techniques to stabilize streambanks within the watershed and thin associated floodplain forests to accelerate recovery of old-growth conditions; which collectively will provide resilience within the watershed providing improved aquatic conditions for both anadromous and resident fish species. At the same time, this project will continue to build important partnerships between agency and community interests that foster watershed stewardship. This proposal builds on the broader Margaret Creek Restoration Project that was funded through FY22 NFHP funding enabling KIC to initiate a tribal work crew that is currently initiating stream restoration and riparian forest enhancement in the watershed this summer (2022). In providing another year of funding to this project, the project will benefit in having a more stable workforce and a greater impact will be made at the project site.
NFHP Board Operations Proposal	2023	Yes	Yes	Yes	National	No	National Fish Habitat Board	of Fish and Wild	Completed	NA	$328,532		To meet the requirements and obligations of the ACE Act, the Board requires base funding for: 1) basic Board operations to include both Board travel and meeting costs and Science and Data Committee (SDC) Co-chair travel and SDC meeting costs; 2) NFHP communications and overall program coordination and support; and 3) maintenance of existing data systems for both NFHP projects and assessment data.
2024													
ACFHP Operational Funding	2024	Yes	Yes	Yes	Multiple	No	Atlantic Coastal Fish Habitat Partnership	Atlantic States Marine Fisheries Commission	Active	1	$85,000	$85,000	The project will support personnel salary and partner travel to allow the Atlantic Coastal Fish Habitat Partnership (ACFHP or Partnership) to carry out its mission, goals, and objectives as stated in its Strategic and Action Plans. ACFHP holds spring and fall meetings of its Steering Committee, with the spring meeting to be supported from the grant. An ACFHP Science and Data Committee meeting will also be supported. Grant funds will also be used to provide partial salary and fringe support for the ACFHP Director, who runs the Partnership on a day-to-day basis. Activities include soliciting restoration proposals by distributing various RFPs, developing agendas and materials for meetings, leading habitat science and assessment projects, organizing and participating in ACFHP and other Fish Habitat Partnership webinars and calls, and outreach and communications initiatives.

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Maryland Coastal Bays Salt Marsh Restoration Project - Phase I	2024	Yes	Yes	Yes	MD	No	Atlantic Coastal Fish Habitat Partnership	Delmarva Resource Conservation and Development Council	Active	2	$100,000	$100,000	The Maryland Coastal Bays Salt Marsh Team, consisting of resource agencies and NGOs seeks to restore degraded salt marshes in the Maryland Coastal Bays. This project aims to improve fish habitat, water quality, and coastal resiliency by reversing human impacts and restoring salt marsh processes on 39 acres on two private properties. The 90% designs include four restoration techniques: sediment addition to nourish degraded marsh from grid-ditching, filling man-made ditches, creating meandering channels for drainage, and planting marsh grasses to revegetate pools. If funded, this first-of-its-kind marsh restoration in the Coastal Bays would serve as a template for future opportunities.
Engineering, Design and Permitting for the Removal of the Upper E.R. Collins Dam (NJ Dam #24-29) on the Pequest River in New Jersey	2024	Yes	Yes	Yes	NJ	No	Atlantic Coastal Fish Habitat Partnership	The Nature Conservancy	Active	3	$42,602	$42,602	Engineering, design and permitting for removal of the Upper E. R. Collins (7-foot-high, 85-foot-wide concrete ogee dam, owners: two citizens). Located within 1,500 feet of Pequest and Delaware Rivers confluence, this dam blocks fish migration, degrades instream habitat and contributes to flooding of homes and businesses in Belvidere. As project manager, TNC will bring to “shovel ready” status.
CFPF Coordination & Operational Support	2024	Yes	Yes	Yes	CA	No	California Fish Passage Forum	Pacific States Marine Fisheries Commission	Completed	1	$85,000	$85,000	This project consists of coordination and operational activities to support the Forum’s various activities and initiatives in support of its goal to restore connectivity of freshwater habitats throughout the historic range of anadromous fish in California. Activities include coordinating and participating in the Forum’s Science & Data, Governance, and Policy & Permitting committees, as well as leading the Education & Outreach Committee. Planning and facilitating Forum Steering Committee meetings, and overseeing the creation and distribution of outreach materials relating to the importance of fish passage barrier removal including but not limiting the Forum’s website, and barrier case studies. This project also manages and coordinates the Forum’s annual funding solicitation process (development of the request for proposals (RFP), evaluation criteria, facilitating project selection, and collection of triennial progress reports from funded projects).
Designing for Sturgeon Passage in the San Joaquin River at Eastside Bypass Control Structure	2024	Yes	Yes	Yes	CA	No	California Fish Passage Forum	US Fish and Wildlife Service Lodi Fish and Wildlife Office	Completed	2	$54,014	$54,014	We are interested in answering questions to inform design modifications to the Eastside Bypass Control Structure (EBCS) and associated downstream rock ramp, and to validate sturgeon usage before project construction. This project will compile movement data of an anadromous state Species of Concern, together with habitat and environmental variables to improve native fish passage.

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Jenny Creek Man-made Barrier Removal	2024	Yes	Yes	Yes	CA	No	California Fish Passage Forum	Trout Unlimited	Active	3	$100,000	$100,000	Trout Unlimited is seeking implementation funding to remove a man-made concrete barrier on Jenny Creek in California. In 2024 Iron Gate Dam will be removed and allow for the return of Chinook Salmon (Oncorhynchus tshawytcha), coho salmon (O. kisutch), and steelhead (O. mykiss) to Jenny Creek for the first time since Iron Gate Reservoir was constructed in 1964. The barrier removal will be especially important for Coho Salmon because of declining populations in California.
Weaver Basin Fish Passage Assessments	2024	Yes	Yes	Yes	CA	No	California Fish Passage Forum	Trinity County Resource Conservation District	Active	4	$21,850	$21,850	This project seeks to update all of the unassessed (26) or unknown passage (11) barrier status in the Weaver Creek Watershed to provide baseline data as part of a larger watershed restoration plan.
Wildcat Creek Fish Passage and Community Engagement Project (Phase 3)	2024	Yes	Yes	Yes	CA	No	California Fish Passage Forum	The Watershed Project	Active	5	$100,000	$69,840	The Wildcat Creek Fish Passage and Community Engagement Project (Project) is located in North Richmond, an unincorporated area in western Contra Costa County and the Cities of Richmond and San Pablo, along the Wildcat Creek between Rumrill Boulevard and 6th Street. The Project will improve habitat connectivity for Central California Coast steelhead trout (Oncorhynchus mykiss) by retrofitting the existing fish passage structure that is a barrier to fish passage and sediment basin to meet fish passage criteria and by improving channel conveyance. This will be done by retrofitting the existing fish ladder and sediment basin to create a more natural fish passage corridor.
DARE Coordination, Operations and Partnership Support	2024	Yes	Yes	Yes	Multiple	No	Driftless Area Restoration Effort	Trout Unlimited	Active	1	$85,000	$85,000	DARE is a partnership to restore the native aquatic resources of the Driftless Area
Root River Habitat Restoration Project Expansion-MN	2024	Yes	Yes	Yes	MN	No	Driftless Area Restoration Effort	Eagle Bluff Environmental Learning Center	Active	2	$41,267	$41,267	The Root River Habitat Restoration Project Expansion will enhance a segment of the Root River that has been damaged by flood conditions which created highly erosive stream banks and loss of fish habitat. This project will install 230 linear feet with 3,300 linear feet encompassing the length of the learning center property. In-stream pre- and post-construction biological monitoring for fish and macro invertebrates will be conducted.
A Brook Trout Conservation Portfolio to Inform Strategic Planning in the Driftless Area	2024	Yes	Yes	Yes	WI	No	Driftless Area Restoration Effort	Trout Unlimited	Active	3	$21,572	$13,000	The Brook Trout Conservation Portfolio is a GIS-based conservation assessment framework developed by Trout Unlimited uses information on fish passage barriers to identify interconnected patches of Brook Trout habitat.

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Danuser Creek DARE Habitat Improvement Project, Wisconsin	2024	Yes	Yes	Yes	WI	No	Driftless Area Restoration Effort	Trout Unlimited Clearwater Chapter	Active	4	$50,000	$28,000	Danuser Creek is a tributary of Waumandee Creek, located in the Trempealeau River watershed, WI. The watershed is a priority brook trout area for the DARE fhp. The proposed project will focus on reducing erosion and improving fish habitat and water quality on Danuser Creek. The project site suffers from severe erosion and the accumulation of sediment in-stream. Surrounding farm fields have created an entrenched stream bed and disconnected the stream channel from the natural flood plain. Stable in-stream habitat is lacking as well. Objectives of project are to stabilize 0.5 miles of eroding streambank, restore 1.21 acres of riparian vegetation, and enhance 0.25 miles of instream habitat for brook trout and other native fishes and invertebrates in the project area.
Chimney Rock Tributary DARE Habitat Improvement Project, Wisconsin	2024	Yes	Yes	Yes	WI	No	Driftless Area Restoration Effort	Elk Rod and Gun Club	Active	5	$50,000	$34,600	The project is located in the Middle Trempealeau watershed, a DARE priority brook trout watershed. The project stream, Chimney Rock, suffers from severe erosion and accumulation of sediment in the surrounding farm fields, created an incised stream bed, and is disconnected with the natural flood plain. Stable in-stream habitat is lacking for trout and other fish species. Proposed action is to remove invasive brush in the riparian area, re-slope and stabilize the project streambanks, and install instream habitat to benefit native brook trout.
Occurrence Patterns and Relative Abundance of Sculpins as Indicators of Ecosystem variety in the Kickapoo Watershed	2024	Yes	Yes	Yes	WI	No	Driftless Area Restoration Effort	University Wisconsin-La Crosse	Active	6	$31,359	$31,359	University Wisconsin- La Crosse graduate student plans to sample 15 subwatersheds in the Kickapoo River Watershed based on previous models that have predicted but not sampled the likelihood of sculpin presence. Graduate student will sample sites with low, intermediate, and high probabilities of sculpin occurrence based on previous models. Abiotic variables such as stream temperature, current velocity, riparian zone measurements, and stream restoration activities will be collected to determine factors that best explain the presence or absence of sculpin. A better understanding of their occurrence may further the understanding sculpin as indicators of past and present watershed impairment and their responses to stream habitat restoration. Applicant objectives are to determine relationships between these two native species and their environments.
DFHP Operational Support FY2024	2024	Yes	Yes	Yes	Multiple	No	Desert Fish Habitat Partnership	Desert Fish Habitat Partnership	Completed	1	$85,000	$85,000	Operational support of the Desert Fish Habitat Partnership is critical in attaining our purpose of to conserve aquatic habitat in the arid west for desert fishes for the American people by protecting, restoring and enhancing these unique habitats in cooperation with and in support of, state fish and wildlife agencies, federal agencies, tribes, conservation organizations, local partners, and other stakeholders.

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Riparian Restoration of the Moapa Valley	2024	Yes	Yes	Yes	NV	No	Desert Fish Habitat Partnership	US Fish and Wildlife Service	Completed	2	$22,072	$22,072	Moapa Valley is home to warm springs and streams that contain a unique endemic system of underwater life in the desert. The Moapa Dace and Moapa White River springfish are endemic desert fish species that have survived throughout human disturbances in the valley. Several streams have been reconstructed to restore the area to more natural hydrologic conditions, but riparian vegetation has yet to thrive. This project will plant native species in riparian areas to improve leaf litter input, combat invasion by invasive species, and stabilize hydrologic conditions and provide invasive vegetation control along any streams that negatively impact stream processes.
Upper Drews Creek Fish Passage Project	2024	Yes	Yes	Yes	OR	No	Desert Fish Habitat Partnership	Lake County Umbrella Watershed Council	Active	3	$50,000	$50,000	Drews Valley Ranch is located 21 miles west of Lakeview in Lake County, Oregon. The 11,400-acre ranch is surrounded by the Fremont-Winema National Forest and includes nine miles of streams, eight tributary creeks, a reservoir, and grassy wetlands. The ranch is home to more than 185 species of birds, fish, and mammals, including the bald eagle and red-band trout. The Drews Creek Fish Passage and Stream Restoration project was initiated in the summer of 2020 as the Lake County Umbrella Watershed Council secured an Oregon Watershed Enhancement Board Technical Assistance grant to survey the project sites and develop a 60% design plan to address fish passage and stream function. A design plan has been developed and cost estimates have been retained from a local engineering firm. The Council is seeking construction funds to implement work to restore fish passage at an irrigation diversion on Drews Creek to provide access upstream, while enhancing stream and riparian function using large wood and willow plantings. The project will compliment and build upon several conservation actions that have been executed on the ranch over the last three decades.
Little Sandy Fish Passage and Protection	2024	Yes	Yes	Yes	WY	No	Desert Fish Habitat Partnership	Wyoming Game and Fish Department	Active	4	$50,000	$50,000	The Wyoming Game and Fish Department initiated a project in fall 2022 on Little Sandy Creek that will ultimately reconnect 46 miles of stream to benefit Flannelmouth Sucker and Bluehead Sucker. Designs are underway to retrofit an existing diversion to create a robust barrier to allow future removal of non-native species upstream of the barrier to secure native fish populations long-term. A permanent barrier is needed on Little Sandy Creek to preclude upstream movement of non-native species from recolonizing the stream after treatments. Upstream, lie two irrigation diversions operated by the Little Sandy Grazing Association. Both diversions will have these push-up dams removed and replaced with passable structures that will fully connect 46 miles of Little Sandy Creek upstream of Eden Reservoir diversion.

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Wall Canyon Sucker Barrier Project	2024	Yes	Yes	Yes	NV	No	Desert Fish Habitat Partnership	Nevada Department of Wildlife	Active	5	$100,000	$100,000	The Wall Canyon Sucker is an undescribed unique catostomid endemic to one watershed in the Wall Canyon drainage in Washoe County, Nevada. The purpose of the project is to better exclude non-native salmonids such as Brown Trout and Rainbow Trout from the upper reaches of Wall Canyon Creek, where they threaten the population size and the extent of occupied habitat of native species, including rare and narrow endemics. The Nevada Department of Wildlife conducts annual surveys to monitor abundance and distribution of Brown Trout and has performed chemical and manual removals (2009 and 2022) to eradicate them from Wall Canyon Creek. The existing gabion barrier provides some control against ingress of these non-native species into Wall Canyon Creek, but it has suffered damage and overtopping in the past.
Desert Fish Stream Habitat Enhancement in Desert Biome of BioSphere II	2024	Yes	Yes	Yes	AZ	No	Desert Fish Habitat Partnership	University of Arizona	Active	6	$41,626	$23,632	The University of Arizona's Biosphere 2 is the world's largest controlled environment dedicated to understanding the implication, mitigation, and adaptation solutions for resilience of our planet (Biosphere 1). Biosphere 2 is a meso-scale science facility with five synthetic ecosystems including an arid desert scrub ecosystem. A major focus of the research, outreach, and education programs at Biosphere 2 is how will long-term environmental change impact a wide variety of habitats and organisms throughout out the world. This project will provide the funding necessary to install/complete a desert stream/pond/cienega in this desert habitat to be stocked with Gila Topminnow, Desert Pupfish, and an extirpated lineage of Longfin Dace from the Rio Sonoyta, to provide an educational and outreach opportunity about endangered desert fishes and habitats to over 100,000 visitors and students annually.
EBTJV operations and management FY24	2024	Yes	Yes	Yes	Multiple	No	Eastern Brook Trout Joint Venture	Canaan Valley Institute	Active	1	$85,000	$85,000	Canaan Valley Institute will support coordination and management of the Eastern Brook Trout Joint Venture (EBTJV). The Eastern Brook Trout Joint Venture (EBTJV) has developed a roadmap for wild Brook Trout conservation grounded in science and guided by its mission to facilitate integrated approaches to conserving healthy coldwater aquatic resources and fishable wild Brook Trout populations. The EBTJV coordinator supports the goals and outcomes of the EBTJV.
Restoring a Brook Trout Metapopulation in Moore Springs Branch, Great Smoky Mountains National Park, NC	2024	Yes	Yes	Yes	NC	No	Eastern Brook Trout Joint Venture	National Park Service Great Smoky Mountain National Park	Active	2	$45,248	$45,248	This project will restore Brook Trout to 3.8 km (2.4 miles) of Moore Springs Branch (Twentymile watershed) in western NC within Great Smoky Mountains National Park. This involves removal of non-native Rainbow Trout in 3.1 km of Moore Springs Branch using the piscicide Antimycin and translocation of roughly 600 Brook Trout per year over two years (2024 & 2025) to reestablish the species in Moore Springs Branch. There will also be pre-and post project monitoring with electrofishing.

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Helicopter-assisted Large Wood Additions, Narraguagus River, TWP 34, ME	2024	Yes	Yes	Yes	ME	No	Eastern Brook Trout Joint Venture	Project SHARE	Active	3	$45,356	$45,356	This project will add wood complexity to a 0.42-mile reach of the mainstem Narraguagus River, assisting with remediation of legacy log driving effects on a Downeast coastal river. This project will provide necessary physical features that promotes instream habitat complexity that native salmonids need to complete their lifecycle and for their populations to thrive. The wood additions will occur in a cold-water influenced reach in the upper mainstem of the Narraguagus river where there is not a convenient source of trees along the riparian buffer and there is not a local access point for trucking wood in from off-site. Project SHARE has reached an agreement with the Maine Army National Guard (Guard) for helicopter assistance to transport wood material to the restoration site. The Guard will use this partnership as a training opportunity for its pilots and crews. SHARE staff will use the wood material to constructs PALS to increase habitat complexity in the reach. This project will be the first of its kind in designated Atlantic salmon critical habitat.
Wheeler Pond Dam Removal and North Brook Restoration, Berlin, Massachusetts	2024	Yes	Yes	Yes	MA	No	Eastern Brook Trout Joint Venture	Assabet, Sudbury, and Concord watershed organization (OARS)	Active	4	$50,000	$50,000	This project will support the key pre-construction tasks of obtaining all necessary permits and preparing the 100% engineering design plans necessary to remove the Wheeler Pond dam. Wheeler Pond Dam, which impounds North Brook, a tributary to the Assabet River, in Berlin, Massachusetts. This will restore connectivity and ecological function to the channel, floodplain, and riparian corridor of North Brook, and allow wild Eastern Brook Trout to move upstream and downstream to spawning areas, food sources, and summer temperature refugia. This will enhance the recreational fishing opportunities in North Brook. It will also remove a Significant Hazard Dam in unsafe condition which will contribute to public safety and improve resiliency to future negative impacts of intense precipitation and flooding.
Small Dam Removal, East Branch North River, Whitingham, VT	2024	Yes	Yes	Yes	VT	No	Eastern Brook Trout Joint Venture	Trout Unlimited	Active	5	$50,000	$50,000	The purpose of this project is to restore fish passage, improve stream function, and increase riparian shading in the headwaters of the East Branch North River. Deliverables will include removing 1 dam and associated infrastructure, replanting up to 1 acre of riparian habitat, upsize 1 private driveway culvert.

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Poplar Lick Run & Big Run Fish Passage Barrier Removal Projects Poplar Lick Run & Big Run, Fairview, MD	2024	Yes	Yes	Yes	MD	No	Eastern Brook Trout Joint Venture	Trout Unlimited	Active	6	$50,000	$50,000	This project by Trout Unlimited will replace two passage barriers to improve habitat conditions for eastern brook trout in The Savage River watershed, Maryland. The Savage represents the regional "stronghold" of eastern brook trout populations, and an important priority for conservation efforts and building long-term environmental change resilience for native aquatic species. This project will provide access to critical thermal refugia as well as headwater spawning habitat. TU will remove a vented concrete ford on Poplar Lick will and replace it with a low-water stream crossing, enabling access to over 2 miles of tributary stream habitat for native brook trout and other aquatic organisms. TU will replace an embanked stone road crossing/culvert on Big Run, and replace it with an open-bottom "box" culvert. This will open 1.6 miles of tributary. TU will perform pre/post implementation fish population monitoring to assess project outcomes/results at both sites.
NFHP FFP FY24 Operations Coordination & Communications for Fishers & Farmers Partnership	2024	Yes	Yes	Yes	Multiple	No	Fishers and Farmers Partnership	Fishers and Farmers Partnership, Habitat for Humanity La Crosse Area, University of Missouri	Active	1	$85,000	$85,000	Funding will be used to carry out the Fishers & Farmers Strategic Plan, Communications Plan, and Coordination. Actions include expanding outreach systems & processes, contact management, communications platforms, meeting coordination, funding allocation and grant writing. Focus will be on showcasing funded projects, expand network of local, farmer-driven groups and initiatives, fish, fishing and recreation, in Wisconsin, Minnesota, Missouri and states that show the most need in the National Fish Habitat Assessment - Iowa and Illinois.
NFHP FFP FY24 Science Team Coordination for Fishers & Farmers Partnership	2024	Yes	Yes	Yes	Multiple	No	Fishers and Farmers Partnership	Fishers and Farmers Partnership, Habitat for Humanity La Crosse Area, University of Missouri	Active	2	$20,000	$20,000	We are requesting $20,000 for the Science Team Lead, for finding ways to sustain Fishers & Farmers Partnership GIS/Science assessment and/or monitoring work to fill in data gaps and help sustain Fishers & Farmers for long term. Funding will help provide salary, travel, and collaboration of the FFP Science Team Lead with the FFP Steering Committee, NFHP Science Team and partners. The goal for the FFP Science Team is to help guide the FFP Steering Committee in making decisions about protection versus restoration projects, to assist with strategic habitat conservation and enable future learning which will initiate more conservation.

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FY 2024 Fishers and Farmers Partnership Watershed Leaders Workshop	2024	Yes	Yes	Yes	Multiple	No	Fishers and Farmers Partnership	Fishers and Farmers Partnership, Habitat for Humanity La Crosse Area, University of Missouri	Active	3	$35,000	$35,000	The Watershed Leaders Workshops are the heart of the Fishers & Farmers Partnership for supporting farmer leadership and collaborative action, so farms and fish thrive together. We developed the Watershed Leaders Network, which connects farming neighbors, landowners, and local collaborators to learn, share and define the next steps forward. Our vision is shared work and productive relationships between landowners, agriculture, and conservation organizations. We desire to connect people and empower landowners to act for themselves, their communities, and the greater good.
NFHP FFP FY24 Stream Stewardship Through Watershed Council Leadership, WI	2024	Yes	Yes	Yes	WI	No	Fishers and Farmers Partnership	Valley Stewardship Network	Active	4	$74,970	$66,688	This educational outreach project will provide funding to support for existing watershed councils with meetings, events, funding, watershed stewardship technical assistance, and outreach. Networking, outreach, resources, and logistics support for the Hill Country Watershed Alliance. Develop 9 Key Element Watershed Plans based on activities in Coon Creek. Collect water quality samples at 21 stream locations: once per month from August-Oct 2024 and May-Oct 2025.Analyze data to compare water quality parameters with pre-project data collected since 2015. Manage, demonstrate, monitor, and promote prairie STRIPS and other watershed stewardship practices with Council partners. Develop the Youth-Led Watershed Council, events, and programs. Watersheds include Tainter Creek (W2W 2019), Upper/West Fork Kickapoo River, Bad Axe River, Springville Branch, Coon Creek, Rush Creek.
Great Lakes Basin Fish Habitat Partnership Operational Support (FY 24)	2024	Yes	Yes	Yes	Multiple	No	Great Lakes Basin Fish Habitat Partnership	Great Lakes Basin Fish Habitat Partnership	Completed	1	$85,000	$85,000	The Great Lakes Basin Fish Habitat Partnership is requesting operational support for FY 2024 to continue implementation of the Strategic Plan and fund fishery habitat restoration, barrier removal (dams and culverts) and non-barrier proposals (inventories, assessments, and feasibility and design) to benefit fish and wildlife resources in the Great Lakes Basin.
GPFHP Operation and Coordination	2024	Yes	Yes	Yes	Multiple	No	Great Plains Fish Habitat Partnership	US Fish and Wildlife Service	Completed	1	$85,000	$85,000	This funding is essential to the continued operation and functioning of the fish habitat partnership. These funds are used to request, input and coordinate habitat conservation projects under the guidelines of the NFHP strategy and the priorities of the Fish Habitat Partnership. In addition, coordination activities that align this FHP with the national initiative are essential.

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Bighorn River Side Channel Reactivation Evaluation	2024	Yes	Yes	Yes	MT	No	Great Plains Fish Habitat Partnership	Bighorn River Alliance	Active	2	$75,000	$75,000	The Bighorn River Alliance, together with our Federal and State partners, are engaged in a large-scale effort to restore much of the geomorphic complexity that characterized the Bighorn River before construction of Yellowtail Dam. The objective of the work proposed here is to develop the information that documents the results of the side channel reactivations, evaluates the net benefits, and provides guidance so that these benefits can be sustained in the future.
Upper Yellowstone Project Prioritization Plan	2024	Yes	Yes	Yes	MT	No	Great Plains Fish Habitat Partnership	Montana Freshwater Partners	Active	3	$55,000	$44,654	Develop a Watershed Project Prioritization Plan (Plan) for the Upper Yellowstone and Shields River Watersheds in partnership with the Upper Yellowstone and Shields River Watershed Groups. The Plan will identify and prioritize projects that support drought and flood resiliency and overall watershed health, including natural water storage (beaver mimicry, floodplain reconnection, soil health), wetland and stream restoration, habitat restoration for native species, invasive species management, riparian land preservation, and managing recreational use pressures.
Hawaii Fish Habitat Partnership Operational Support	2024	Yes	Yes	Yes	HI	No	Hawaii Fish Habitat Partnership	Pacific Islands Fish and Wildlife Office	Active	1	$85,000	$85,000	The Hawai‘i Fish Habitat Partnership (FHP) requests $85,000 for operational support for FY24. The primary focus of the Hawai‘i FHP is on-the-ground conservation of both inland water habitats and coastal aquatic ecosystems. The Hawai‘i FHP provides technical and financial support for voluntary conservation of high-value streams, estuaries, and coastal aquatic systems. Support for habitat restoration in these systems fills an un-met conservation need in the islands.
Huli Hou Na Lima i Hā‘ena: Expanding the ‘O‘opu Restoration Project	2024	Yes	Yes	Yes	HI	No	Hawaii Fish Habitat Partnership	National Tropical Botanical Garden	Active	2	$122,453	$122,453	This project will restore approximately 1,000 feet of riparian area and wetlands adjacent to Limahuli Stream located in the Halele`a District on the north shore of the island of Kauai. Restoration efforts will focus on an ancient Hawaiian wetland agricultural complex consisting of a constructed wetlands previously used for taro production (lo‘i) as well as reconstruction of a low-head water diversion, and the tributary ditch system (‘auwai). The restoration of the lo‘i complex will increase habitat for native freshwater fish and invertebrates, serve as flood mitigation for the lower reaches of the valley, and will limit the amount of sediment transport in the main channel.

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KPFHP Coordination and Operational Support	2024	Yes	Yes	Yes	AK	No	Kenai Peninsula Fish Habitat Partnership	Kenai Watershed Forum	Active	1	$85,000	$85,000	The KPFHP exists to maintain healthy fish, healthy people, healthy habitat and healthy economies in the Kenai Peninsula Borough. The region's freshwater fish habitat is unique nationally due to its road-accessibility and proximity to a major population center. Yet it continues to support robust fisheries and cultural significance. Population growth, unregulated development, habitat fragmentation, degraded water quality, loss of water quantity, and long-term environmental change threaten fish habitat on the Kenai Peninsula. The KPFHP aims promote partnerships among our many stakeholders, support projects that address the top threats to fish habitat, and educate the public about the importance of fish habitat.
Soldotna Creek Watershed: Conserving Hydrologic Conditions for Fish	2024	Yes	Yes	Yes	AK	No	Kenai Peninsula Fish Habitat Partnership	Alaska Department of Fish and Game	Active	2	$44,365	$44,365	This project will provide legal protection, by means of instream flow reservations, for the Soldotna Creek watershed. Hydrological data characterizing the watershed will be made available. Opportunistic streamflow measurements and fish sampling will occur on Soldotna Creek tributaries to obtain additional hydrological and fish use data for potential reservations and inclusion to the Anadromous Waters Catalog (AWC). ADF&G and Kenai Watershed Forum (KWF) will collaborate to execute this project.
Stream Watch: Expanding Volunteer-Based Outreach and Habitat Stewardship on the Kenai Peninsula	2024	Yes	Yes	Yes	AK	No	Kenai Peninsula Fish Habitat Partnership	Kenai Watershed Forum	Active	3	$36,161	$36,161	The Stream Watch is a volunteer driven program that was established in 1994 to mitigate the negative impacts associated with high river usage from anglers in the region. Trained volunteers visit high use sportfishing areas to educate the public about fish habitat conservation, ethical angling, and more. In addition, volunteers remove massive quantities of litter from riparian areas, participate in streambank rehabilitation projects, and participate in organized educational events such as the Kenai River Festival.
Creating Kenai Watershed Stewards Through Adopt-A-Stream and Junior Stream Watch Programs	2024	Yes	Yes	Yes	AK	No	Kenai Peninsula Fish Habitat Partnership	Kenai Watershed Forum	Active	4	$45,045	$41,858	Adopt-A-Stream (AAS) is a long standing and nationally recognized environmental education program. The AAS program has introduced children and adults to watershed science and the study of natural resources since 2006. Through K-12 School programming, summer camp, and the introduction of the Junior Stream Watch program, we emphasize the importance of high level conservation education, and encourage participants to develop a personal connection to the natural areas that surround and support us.

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Mat-Su Salmon Partnership Coordination and Outreach Engagement	2024	Yes	Yes	Yes	AK	No	Matanuska Susitna Basin Salmon Habitat Partnership	Trout Unlimited	Active	1	$85,000	$85,000	The Mat-Su Basin Salmon Habitat Partnership (Partnership) formed in 2005 to bring together diverse stakeholders to protect salmon habitat through conservation, education and restoration. Through collaboration, the Partnership advances the goals identified in its Strategic Action Plan, to guide salmon conservation and science efforts in the Mat-Su Basin. To continue past success, this proposal seeks funding to 1) support the Partnership Coordinator salary 2) conduct trainings and workshops for partners and community members, including the 2024 Mat-Su Salmon Science and Conservation Symposium and 3) advance outreach and engagement activities for the Partnership to benefit salmon habitat in the Mat-Su Basin.
Removing Salmon Barriers Through the Mat-Su Fish Passage Program: Coal Creek Fish Passage Culvert Replacement	2024	Yes	Yes	Yes	AK	No	Matanuska Susitna Basin Salmon Habitat Partnership	Matanuska Susitna Borough	Active	2	$60,000	$60,000	This project would replace a culvert that currently completely blocks passage for both adult and juvenile Coho and Chinook salmon on Coal Creek in the Little Susitna drainage - an important sport fishery and priority of the Mat-Su Salmon Partnership. Restoration would open access to 4.3 upstream miles for adult and juvenile salmon, and provide unimpeded downstream access to juvenile rearing and overwintering habitat - including at low flows.
Establishing a Stream Temperature and Water Quality Monitoring Program, and Salmon Genetic Sampling in the Eklutna River	2024	Yes	Yes	Yes	AK	Yes	Matanuska Susitna Basin Salmon Habitat Partnership	Native Village of Eklutna	Active	3	$37,700	$37,700	In 2018 the abandoned lower Eklutna dam was removed from the Eklutna River, reconnecting more than 8 miles of upstream salmon habitat. Currently, a second upstream dam limits water in the river to support wild salmon. Mitigation measures for this hydroelectric project's impacts to fish and wildlife will be decided in 2024. Project will provide two years of important baseline temperature (loggers in 5-6 locations) and water quality data (key water quality parameters in stream temperature locations) in key habitat of the Eklutna River to help inform streamflow restoration and habitat enhancement decisions and projects in the future. Project will also obtain over 50 genetic samples from salmon to identify genetic stocks – of which none currently exist.
Protecting Mat-Su Salmon Habitat from Aquatic Invasive Species through Collaborative Training and Partnership	2024	Yes	Yes	Yes	AK	Yes	Matanuska Susitna Basin Salmon Habitat Partnership	Tyonek Tribal Conservation District	Active	4	$73,088	$73,088	The aquatic invasive species (AIS) northern pike, Elodea canadensis, and dreissenid mussels threaten Mat-Su Borough's freshwater resources and the subsistence, commercial, and sport fisheries that rely on healthy salmon habitat. This project proposes to build a sustainable multi-partner AIS network that leverages existing resources to effectively implement early detection monitoring across the Mat-Su Borough. This will be accomplished by developing AIS survey prioritizations by taxa and designing and implementing AIS-focused training and hands-on learning opportunities to increase regional capacity for early detection monitoring and to support AIS prevention, outreach, and rapid response.

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Stream Ecology: Modern Tools for Mapping and Sampling of Mat-Su Priority Salmon Streams-Willow and Fish Creeks	2024	Yes	Yes	Yes	AK	Yes	Matanuska Susitna Basin Salmon Habitat Partnership	Knik Tribe	Active	5	$74,488	$74,488	The Knik Tribe, in collaboration with the Alaska Center for Conservation Science at the University of Alaska Anchorage, proposes to map riparian wetlands in two Mat-Su watersheds using geospatial data. The resulting dataset will identify relative salmon habitat importance and provide resource managers at all levels with information on stream health. The project will culminate with public outreach at the Mat-Su Salmon Science Symposium. Knik Tribe will promote educational field exercises, camps, and trainings to build aerial imagery of the riparian wetlands and watersheds. The project aims to ensure healthy salmon habitat in the Mat-Su Basin and create a repeatable workflow for mapping other riparian corridors.
Midwest Glacial Lakes Partnership Operations	2024	Yes	Yes	Yes	Multiple	No	Midwest Glacial Lakes Partnership	Michigan Department of Natural Resources	Active	1	$78,082	$78,082	Midwest Glacial Lakes Partnership protects, rehabilitates, and enhances sustainable fish habitats in glacial lakes of the Midwest for the use and enjoyment of current and future generations. This project will coordinate the partnership's three committees, implement tasks identified by the committees, maintain partnership operations, and enable participation in the National Fish Habitat Partnership. This project will partially fund the coordinator and provide funding for partnership activities including printing copies of the partnership's Shoreline Living publication. Additional objectives include implementation of Midwest Glacial Lakes Partnership objectives on inland lake management, long-term environmental change, outreach, and habitat conservation grants within Michigan.
Stearns County Shoreline Habitat Restoration Projects - 2024	2024	Yes	Yes	Yes	MN	No	Midwest Glacial Lakes Partnership	Stearns County Soil and Water Conservation District	Active	2	$75,000	$75,000	The Stearns County Soil and Water Conservation District (SWCD) will work with approximately five lakeshore landowners who have committed to completing a shoreline restoration. Each of these projects will use natural techniques to rehabilitate and protect fish and wildlife habitat. With the restoration or protection of natural shorelines, many native fish species will enjoy additional and improved habitat due to improved water quality and reduced sedimentation. The property owners will promote additional projects by allowing site visits, typically 12 times a year, demonstrate shoreline restoration for other shoreline property owners.

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Designing and Engineering Wetland Restoration to Protect Aquatic Habitat and Benefit Cisco Population at Long Lake	2024	Yes	Yes	Yes	MI	No	Midwest Glacial Lakes Partnership	Springfield Township	Active	3	$40,000	$40,000	This project will complete the Design, Engineering and Permitting Phase of a wetland restoration project benefitting Long Lake, a glacial lake in Springfield Township, Michigan. The project is in the Shiawassee Basin Preserve, a 600-acre park. Long supports populations of numerous MGLP Priority Species including Cisco and is a popular lake for paddle-in fishing. The project will fund a design to stabilize and restore the wetland including the eroding ditch which will prevent future sediment deposition into the lake and stabilize the shoreline. After completion, the Township will pursue funding for the construction phase to implement the design work.
Nutrient and sediment reduction strategies to improve fish habitat in Lake Wawasee	2024	Yes	Yes	Yes	IN	No	Midwest Glacial Lakes Partnership	Wawasee Area Conservancy Foundation	Active	4	$42,000	$42,000	This project will leverage data on external nutrient and sediment loadings entering Lake Wawasee through the MGLP-funded Wawasee Inlet Nutrient Study (WINS) to reduce priority nutrient and sediment sources in the watershed. This project will install best management practices at pollution "hotspots" including Grassed Waterway, Field Filter Strip Buffer, and Stream Bank Stabilization in Turkey Creek and a Field Border Buffer, Tile Inlet Buffer, and Constructed Wetland to reduce pollution, improve water quality, and benefit fishes such as Largemouth Bass, Smallmouth Bass, Yellow Perch, Northern Pike, Rock Bass, Walleye, Blackchin Shiner, Least Darter, and Iowa Darter.
Assessing and Restoring Shoreline Vegetation to Improve Lake Habitat	2024	Yes	Yes	Yes	MN	No	Midwest Glacial Lakes Partnership	Comfort Lake-Forest Lake Watershed District	Active	5	$60,000	$60,000	Comfort Lake-Forest Lake Watershed District is proposing to implement 10-15 shoreline restoration projects on one or more priority lakes to improve habitat for native fish species, perform two or more shoreline inventories to identify restoration opportunities, and reach out to 1,000 lakeshore residents with information about shoreline buffers and benefits to native fish species. The shoreline inventories will evaluate the quality of shoreline vegetation and quantify the need for shoreline restorations relative to CLFLWD's goal for each lake to have natural shoreline buffers on at least 75% of the shoreline.
Local Partners Collaborate to Solve Fish Passage Issues in Two Priority Systems & Train Local Teams	2024	Yes	Yes	Yes	MN	No	Midwest Glacial Lakes Partnership	Hubbard Soil and Water Conservation District	Active	6	$99,867	$35,622	Hubbard County Soil and Water Conservation District (HCSWCD) will partner with Park Rapids DNR Fisheries, the MN Board of Water and Soil Conservation (BWSR), townships and lake associations to address fish passage and spawning habitat connectivity issues by replacing two existing culverts with correctly sized and placed culverts to reduce flow rates and improve passage. This will protect fisheries from long-term environmental change impacts, create a local process, train local teams to continuously recognize and utilize opportunities to improve passage while replacing existing culverts and raise public awareness about the importance of passage and connectivity for healthy fisheries.

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ORBFHP Coordination	2024	Yes	Yes	Yes	Multiple	No	Ohio River Basin Fish Habitat Partnership	US Fish and Wildlife Service	Completed	1	$85,000	$85,000	Coordination fund for the Ohio River Basin Fish Habitat Partnership (ORBFHP). With these funds, American Rivers will coordinate the Partnership to ensure that all activities are in alignment with the ORBFHP's and NFHP's mission, vision, and goals
Assessment of low-head dams and fish passageway barriers in seven stream basins in Southern Indiana and Northern Kentucky	2024	Yes	Yes	Yes	IN,KY	No	Ohio River Basin Fish Habitat Partnership	Ecosystems Connections Institute	Active	2	$15,850	$15,850	This project proposes to focus on low-head dams in eight, HUC 8 basins in Indiana and Kentucky. This study will use ecological, and GIS based data specific to each dam to use in a pragmatic tool to prioritize dam removal, construction of a fish passageway, or leave the dam intact. Prioritization of dams will identify optimal opportunities. This project will allow the ORBFHP and its partnering agencies and programs the ability to continue its mission and goal of providing full connectivity of its priority drainages by accomplishing these initial tasks related to dam removals and restoring fish passage.
Wabash River Bank Restoration	2024	Yes	Yes	Yes	IN	No	Ohio River Basin Fish Habitat Partnership	Wabash River Defenders	Active	3	$60,000	$60,000	Streambank restoration on the Wabash River. This project addresses 2,400 linear feet of actively eroding banks, typically 10'-13' in height, and 600 linear of grading inside the floodplain. The project focuses on river restoration utilizing rock and wood toe stabilization to prevent toe erosion and reestablishing a riparian buffer zone. Floodplain grading will restore an inner berm and flood bench to alleviate outside bank shear stress, support appropriate sediment transport and flood capacity. Wood reincorporated into the toe stabilization will provide habitat variety, channel roughness to dissipate energy, and trap for aquatic food sources like small sticks and leaves. Native seed and 950 native bare root shrub and tree plantings will be applied to the bank and top of bank to support vegetation growth, provide a more natural function to the bank, and add habitat value for wildlife.
French Creek Stream Stabilization	2024	Yes	Yes	Yes	PA	No	Ohio River Basin Fish Habitat Partnership	Crawford County Conservation District	Active	4	$105,300	$105,300	Streambank stabilization and instream habitat improvements at the confluence of French Creek and Coulter Run.
Laurel Feeder Dam Feasibility Study	2024	Yes	Yes	Yes	CA	No	Ohio River Basin Fish Habitat Partnership	Flatland Resources	Active	5	$35,000	$35,000	This project will complete a feasibility study for the Laurel Feeder Dam on the Whitewater River. This dam provides the water flow for the Whitewater Canal – once used to move materials through southeast Indiana, but now is an historic site run and managed by the Indiana State Museum and Historic Sites. Because the dam plays a vital role in the tourism industry and the study must be carried out to carefully consider its cultural importance within the region.

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PLCI Coordination & Operational Support (FY 24)	2024	Yes	Yes	Yes	Multiple	No	Pacific Lamprey Conservation Initiative	Pacific States Marine Fisheries Commission	Completed	1	$85,000	$85,000	This project consists of coordination and operational support for PLCI's various activities and initiatives in support of its goal to achieve long-term persistence of Pacific Lamprey and their habitats, and support their traditional tribal cultural use throughout their historical range. Activities include but are not limited to coordinating and participating in PLCI's various committees and workgroups (Policy Committee, Conservation Team, Steering Committee, Lamprey Technical Workgroup (and its subgroups), and Regional Management Units etc.), planning and implementation of in-person and virtual events (Lamprey Information Exchanges, workshops/trainings etc.) and outreach in support of partnership, and coordination of annual funding opportunities. This project targets Pacific Lamprey (Entosphenus tridentatus) and other native lampreys along the U.S. West Coast representing FHP priority species and Species of Greatest Conservation Needs, and addresses all of PLCI's objectives in support of the overarching mission.
PLCI Tribal Engagement and Outreach Relations	2024	Yes	Yes	Yes	Multiple	Yes	Pacific Lamprey Conservation Initiative	Columbia River Inter Tribal Fish Commission	Active	2	$75,782	$75,782	This project will be the tribal engagement and outreach relations support to the PLCI which includes tribal, outreach and partner engagement efforts. They will support the PLCI by conducting activities such as tribal partner support and engagement, partner/listserv management, web and social media and promotions, event planning, and committee support. The PLCI is expanding further into Coastal Washington, Puget Sound, California and Alaska. Partners that are integral to this expansion are Native American Tribes.
Puget Sound eDNA Seasonal Surveys	2024	Yes	Yes	Yes	WA	No	Pacific Lamprey Conservation Initiative	US Forest Service Rocky Mountain Research Station	Active	3	$37,871	$37,871	This project proposes collecting eDNA from 13 site locations on a monthly basis from September 2023 to August 2025. Consistent eDNA collection at these sites strives to illuminate changes in seasonal detections, changes in seasonal abundance, and inform life stage habitat use. This project primarily addresses lack of awareness threat, which is the second highest threat for the Puget Sound RMU. This project will expand knowledge about habitat use and migration timing, much of which is unknown for this region and may vary based on watershed characteristics. Additionally, project leads (USFS, WDFW, OSU) will present findings to local mangers and restoration practitioners. Understanding when and how lamprey utilize these watersheds will help to make informed decisions regarding conservation of lampreys.

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Native Lampreys of North America Poster	2024	Yes	Yes	Yes	WA	No	Pacific Lamprey Conservation Initiative	US Fish and Wildlife Service	Active	4	$13,000	$13,000	The goal and deliverable of this project is to develop and produce a poster, "Native Lampreys of North America." The poster will show illustrations of each of the lamprey species that occur in North America along with information about them including geographic range, adult maximum length, life history strategy, and conservation status. There will be information about the benefits and services that native lampreys provide in the ecosystem and how they contribute to healthy ecosystems. This project is a deliverable of the ecosystem subgroup of the Lamprey Communication Committee (LCC). This project addresses lack of awareness and needs for outreach in all RMUs and beyond our region and into other parts of North America on the benefits of native lampreys and the need to conserve them. The poster will be printed and available for digital use on websites and social media.
Using eDNA to Assess the Distribution of Pacific Lamprey (Entosphenus tridentatus) in the Potlatch River, Idaho Following Translocation Efforts	2024	Yes	Yes	Yes	ID	No	Pacific Lamprey Conservation Initiative	Latah Soil and Water Conservation District	Active	5	$14,082	$14,082	The Latah Soil and Water Conservation District proposes to collect and analyze environmental DNA (eDNA) samples for Pacific Lamprey within select subwatersheds of the Potlatch River watershed. The goal of this project is to understand the spatial distribution and tributary habitat use of adult, larval, and juvenile lampreys from translocation efforts. The objectives of this project are to collect and analyze 52 eDNA samples to identify the presence/absence of Pacific Lamprey. Samples will be collected along mainstems and near the lower end of tributaries and analyzed by the National Genomics Center for Wildlife and Fish Conservation. The sample results from this project will be delivered spatially through The Aquatic eDNAtlas Project database.

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Estimating Rotary Screw Trap Efficiency for Juvenile Pacific Lamprey	2024	Yes	Yes	Yes	CA	No	Pacific Lamprey Conservation Initiative	FISHBIO	Active	6	$41,680	$41,680	Each spring during rotary screw trap (RST) operation on the Stanislaus River, migrating juvenile Pacific Lamprey (Entosphenus tridentatus macropthalmia) are incidentally captured during outmigration monitoring of anadromous salmonids. Little is known regarding production and migration characteristics of this species in the Stanislaus River. Our goals are to 1) identify an appropriate marking method for juvenile lamprey, 2) perform multiple releases of marked juveniles at different flow conditions, and 3) evaluate the relationship between trap efficiency and flow conditions to permit abundance estimation of migrating Pacific Lamprey juveniles. A key finding from this work will be the empirical relationship between trap efficiency and discharge, which may then be applied to past and future catch data. Although this relationship will be specific to the Stanislaus RST, demonstrating an effective method for estimating lamprey efficiency can be used to incorporate lamprey monitoring into existing salmonid RST monitoring programs. Project deliverables will include presentations to managers and a final project report in manuscript format suitable for submission to a peer-reviewed publication.
Salmon River Lamprey Distribution and Habitat Assessment	2024	Yes	Yes	Yes	CA	No	Pacific Lamprey Conservation Initiative	Salmon River Restoration Council	Active	7	$53,901	$25,370	The Salmon River Restoration Council (SRRC), in collaboration with the Karuk Tribe Fisheries Program and Klamath National Forest (KNF), seeks to expand existing knowledge of lamprey distribution and habitat suitability and use in the Salmon River watershed with the goal of gathering data to inform future management decisions and restoration actions to benefit Pacific Lamprey. The Salmon River still supports an active tribal harvest of Pacific Lamprey for subsistence. As one of the last undammed rivers on the West Coast of North America, it is critical that this river is managed and restored in a way that supports Pacific Lamprey for tribal use.
PMEP Operational Support	2024	Yes	Yes	Yes	Multiple	No	Pacific Marine and Estuarine Fish Habitat Partnership	Pacific States Marine Fisheries Commission	Completed	1	$85,000	$85,000	PMEP Operational Support will result in increased collaboration and coordination amongst restoration practitioners, researchers, and resource managers throughout the U.S. West Coast.

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San Juan County, WA Eelgrass Health Assessment and Conservation Project	2024	Yes	Yes	Yes	WA	No	Pacific Marine and Estuarine Fish Habitat Partnership	Friends of the San Juans	Active	2	$48,180	$48,180	The Eelgrass Health Assessment and Conservation Project will provide new and actionable data on eelgrass distribution and health to inform strategic fish habitat protection and restoration efforts in San Juan County, Washington and beyond. Outcomes include: 1) comprehensive field surveys and mapping of eelgrass habitat, distribution, and depth data; 2) eelgrass disease and fish presence data; 3) a 20-year change analysis for eelgrass habitat in San Juan County; and 4) the identification of resilient and at-risk eelgrass habitats to inform marine ecosystem recovery actions. The project will benefit the multitude of fish and shellfish species eelgrass supports.
Bayview Oxbow Tidal Restoration Final Design, Alsea Bay, Oregon	2024	Yes	Yes	Yes	OR	No	Pacific Marine and Estuarine Fish Habitat Partnership	Mid Coast Watersheds Council	Active	3	$47,355	$47,355	The project design proposed in this application, will restore tidal conditions to one half of an old oxbow of the Alsea River, restoring about 34% of the tidal wetlands that have been lost. It is one of the largest (75 acre) remaining restoration sites on the Alsea. The other 75 acres on the other side of the oxbow, now behind a road that forms a dike, is still being used for cattle grazing, but presents a potential future opportunity for increased ecological lift.
Henderson Bay Armor Removal	2024	Yes	Yes	Yes	WA	No	Pacific Marine and Estuarine Fish Habitat Partnership	Pierce Conservation District	Active	4	$74,250	$74,250	this project will remove up to 700 feet of shoreline armor, including creosote-treated wood, on the shoreline of Henderson Bay in Pierce County. The project will benefit forage fish and salmonids in the nearshore. Removal of up to 700 feet of armor will restore natural shoreline sediment processes, by allowing the feeder bluff to erode over time and contribute sediment to the beach. This will also reconnect up to 12.8 acres of existing mature marine riparian vegetation, providing shade and organic debris to the nearshore. The project site is a large, forested residential parcel under a Conservation Easement. There is documented herring spawning and patchy eelgrass presence at the project site.
Biological Assessment of the Ediz Hook Lagoon in Port Angeles, WA	2024	Yes	Yes	Yes	WA	Yes	Pacific Marine and Estuarine Fish Habitat Partnership	Lower Elwha Klallam Tribe	Active	5	$97,155	$75,919	Project Purpose is to conduct field surveys to determine fish and shellfish use of a 28-acre estuarine lagoon at the base of Ediz Hook in Port Angeles, WA. Proposal will fill a data gap for this specific habitat as currently available data collected by NOAA using beach seine methods or listed on Pacificfishhabitat.org is from nearby but not in the estuarine lagoon. Project Outcome will be an assessment of what species (fish and shellfish) are present in the lagoon, along with collection of continuous water quality data to inform future restoration/clean-up activities.

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Reservoir Fisheries Habitat Partnership Operations	2024	Yes	Yes	Yes	Multiple	No	Reservoir Fisheries Habitat Partnership	Reservoir Fisheries Habitat Partnership	Active	1	$85,000	$85,000	The Reservoir Fisheries Habitat Partnership was established in 2010. Our goal is to promote the protection, restoration, and enhancement of habitat for fish and other aquatic species in reservoir systems. We are committed to integrating watershed conservation, in-reservoir management, and the management of downstream flows to attain more holistic and coherent strategies for addressing aquatic habitat impairment issues in reservoir systems. In addition, we created The Friends of Reservoirs Foundation [a 501(c) (3) corporation] in August 2010 to provide a mechanism to procure non-governmental funding for reservoir fisheries habitat restoration efforts. Reservoirs are inextricable parts of our natural landscapes. Constructed to meet a variety of human needs, reservoirs impact almost every major river system in the United States, affecting to various degrees habitat for fish and other aquatic species. Conservation of reservoir systems is essential to maintaining the quality of life for the American people. Reservoirs provide essential infrastructure services, from storage and delivery of water to generation of power to the reduction of flood risk in downstream communities. Reservoirs are focal points of recreation for tens of millions of Americans, from anglers to birdwatchers, and they generate tens of billions of dollars for local economies and national recreational industries.
Expansion of North Carolina Wildlife Resources Commission's native aquatic plant program	2024	Yes	Yes	Yes	NC	No	Reservoir Fisheries Habitat Partnership	North Carolina Wildlife Commission	Active	2	$75,000	$75,000	Aquatic plants can play a major role as a food source for aquatic invertebrates as well as juvenile and adult fish habitat. Aquatic plants can improve water clarity and quality and can reduce rates of shoreline erosion, sediment resuspension and help prevent spread of nuisance exotic plants. Ageing reservoirs begin to lose a significant portion of their aquatic habitat due to siltation, eroding banks, decaying of large wood debris and poor water quality. This loss can affect the quality of the fishery, which could have detrimental economic impacts. The North Carolina Wildlife Resources Commission (Commission) has been establishing native aquatic vegetation in reservoirs for decades. In 2018, a small-scale aquatic plant nursery was constructed at our facility in Mebane, NC to address increasing demand. While this nursery has expanded our capabilities, we are currently limited to a production capacity of 3,500 plants annually, and we have limited capabilities to overwinter plants or maintain self-sustaining on-site sources of various plant species. The construction of a larger facility will increase plant production capability as well as provide a better capability to overwinter plants and create sustainable on-sites sources of material. An expanded nursery will also provide more space for aquatic plant research that will be used to increase the overall effectiveness of our in-reservoir habitat enhancement projects.

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Stop the Squeeze: utilizing hypolimnetic oxygenation to improve sport fish habitat, water quality, environmental adaptation, and economic opportunity for Island Park Reservoir and the Henry's Fork of the Snake River, Idaho	2024	Yes	Yes	Yes	ID	No	Reservoir Fisheries Habitat Partnership	Henrys Fork Foundation	Completed	3	$50,000	$50,000	Develop a hypolimnetic oxygenation design plan to oxygenate the Island Park Reservoir hypolimnion to 6 mg/L. Project goal is to permanently eliminate the drawdown-driven oxythermal habitat squeeze by designing, evaluating, and installing a hypolimnetic oxygenation system. A shovel-ready plan allows leveraging up to $3 million in USBR WaterSmart grants available through the Infrastructure and Jobs Act and Inflation Reduction Act.
Lake Red Rock Fish Habitat Enhancement Project	2024	Yes	Yes	Yes	IA	No	Reservoir Fisheries Habitat Partnership	Red Rock Lake Association	Active	4	$56,500	$56,500	Lake Red Rock is the largest lake in Iowa with a surface area of 15,250 acres at conservation pool. The lake lacks adequate littoral structure. The project will increase structural habitat, improve angler opportunities and enhance the quality of the fishery in Lake Red Rock. The project will provide quality structural habitat for natural spawning, nursery locations for young fish, congregation areas for forage fish and feeding opportunities for predator fish. The project will place 42 Mossback Essential Shallow Water Bundles, 20 Mossback Essential Deep Water Bundles, 22 Mossback Basic Shoreline Bundles, 14 Mossback Mega Reef structures. In addition, there will be placement of 30 Cedar Trees Adjacent to the newly treated USACE shoreline riprap stabilization project.
Rend Lake Native Habitat Improvement and Shoreline Erosion Prevention	2024	Yes	Yes	Yes	IL	No	Reservoir Fisheries Habitat Partnership	US Army Corps of Engineers, Rend Lake	Active	6	$40,000	$17,204	Rend Lake has a surface area of 20,633 acres, a maximum depth of 35 feet, and a mean depth of 10 feet. The lake is thirteen miles long and three miles wide and has 162 miles of shoreline. It is the second largest impoundment in Illinois. This project is proposed to create biological habitat, inhibit shoreline erosion on highly eroded areas, inhibit mobilization of sediment and nutrients, and reintroduce native plants to an area invaded by common reed. The benefits expected include: increased complexity and variety of habitat for fish and other wildlife, decreased turbidity, siltation, and nutrient loading for improved water quality, increase of native plant species, and the protection of infrastructure necessary for the outdoor recreators to Rend Lake and its surrounding communities. This will promote increased density of priority game fishes and other desirable organisms for greater quality of experiences for anglers, campers, and other outdoor enthusiasts. This improvement project will also increase tourism dollars spent in the surrounding communities.
SARP Operational Funding FY2024	2024	Yes	Yes	Yes	Multiple	No	Southeast Aquatic Resources Partnership	Southeastern Association of Fish and Wildlife Agencies	Active	1	$85,000	$85,000	This will provide operational funding to SARP to support administrative activities, connectivity projects, outreach, planning, and travel to meetings.

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Huntsville Dam Removal and Stream Restoration in the Beaver Lake Watershed	2024	Yes	Yes	Yes	AR	No	Southeast Aquatic Resources Partnership	Beaver Watershed Alliance	Active	2	$100,000	$100,000	This project seeks to implement goals in regional strategic plans for water quality improvements, aquatic life enhancement, and increased stream connectivity. The project will improve stream connectivity, hydrology, and aquatic/terrestrial habitat by removing fish passage barriers and installing in-stream habitat structures in the Beaver Lake Watershed.
Gar Hole Stream Crossing Improvement and Streambank Restoration in the Beaver Lake Watershed	2024	Yes	Yes	Yes	AR	No	Southeast Aquatic Resources Partnership	Beaver Watershed Alliance	Active	3	$100,000	$100,000	The project will improve stream connectivity, hydrology, and aquatic/terrestrial habitat of War Eagle Creek by removing a low water crossing and restoring streambanks. It will enhance approximately 1000 linear feet of riparian zone by planting native vegetation. It will enhance water quality through the removal of stream barriers and habitat restoration. It will also improve watershed connectivity. Removal of the Gar Hole low water crossing will connect approximately 283 miles of upstream habitat with 83 miles of downstream habitat.
Upper Clinch Watershed Stream Restoration and Riparian Corridor Enhancement, Tazewell County, VA	2024	Yes	Yes	Yes	VA	No	Southeast Aquatic Resources Partnership	Canaan Valley Institute	Active	4	$50,000	$45,704	This project will restore riparian and instream habitat in a tributary of the North Fork Clinch River. The Upper Clinch River watershed is known for its global significance, containing the most species of rare and endangered freshwater fish and mussels worldwide. This project will entail 5 acres of buffer restoration, 8,500 ft of bank stabilization, and 1.6 miles of riparian corridor enhancement, improving instream habitat, benefitting aquatic and riparian species, and increasing native variety while combatting accelerated erosion and sedimentation. This should benefit the over 20 federally listed mussels and 2 federally listed fishes found in the area.
SEAKFHP FY24 Coordination and Operational Support	2024	Yes	Yes	Yes	AK	No	Southeast Alaska Fish Habitat Partnership	Trout Unlimited	Active	1	$85,000	$85,000	This project funds the operations and coordination services for the Southeast Alaska Fish Habitat Partnership (SEAKFHP). SEAKFHP provides a variety of coordination and facilitation services to partner organizations as well as other natural resource managers and interested stakeholders throughout Southeast Alaska. These services provide for the maintenance of the partnership's governance and committee structures, keeps partners engaged, facilitates science, education and outreach actions, allows for participation with NFHP Board requests and associated committees, and executes the solicitation of partner project proposals eligible for NFHP related funding opportunities. Partnership coordination is key in providing services to partner members and with continued support through FY24 NFHP operational funding these services will remain stable.

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Restoring Salmon and Fish Habitat on Kootznoowoo (Admiralty Island) with Angoon Work Crew	2024	Yes	Yes	Yes	AK	Yes	Southeast Alaska Fish Habitat Partnership	Kootznoowoo, Inc.	Completed	2	$91,030	$91,030	Kootznoowoo Inc., the Southeast Alaska Watershed Coalition (SAWC), and US Forest Service (FS) are partnering to restore habitat for coho and sockeye salmon, trout, and char in the Cube Cove Area of the Admiralty National Monument, located on Admiralty Island in Southeast Alaska. This project will restore fish habitat by constructing log jams in the channel and enhance riparian forest to accelerate recovery of old-growth conditions, while at the same time building an important partnership between agency and community interests that will foster watershed stewardship. This proposal will build on the broader Cube Cove restoration project by enabling Kootznoowoo, Inc. to run a tribal work crew that will conduct stream restoration and riparian forest enhancement.
Fish Habitat Restoration Assessments: Filling information gaps for non-federal lands on Prince of Wales Island, Alaska	2024	Yes	Yes	Yes	AK	No	Southeast Alaska Fish Habitat Partnership	Southeast Alaska Conservation Council	Active	3	$50,000	$50,000	Decades of old growth logging, including logging within the riparian area and road building, has left salmon streams impaired throughout Southeast Alaska. Through this project, the Southeast Alaska Watershed Coalition (SAWC) will engage with tribal, community groups, and agency partners to conduct watershed assessments, including stream survey, culvert and road inventory, and forest condition assessment, to prioritize restoration of salmon habitat on non-federal lands on Prince of Wales Island.
Fostering Fish Habitat Stewardship in Skagway, Alaska	2024	Yes	Yes	Yes	AK	No	Southeast Alaska Fish Habitat Partnership	Southeast Alaska Conservation Council	Active	5	$24,750	$24,750	This proposal funds an ongoing effort to foster fish habitat stewardship in the community of Skagway, Alaska, extending 20-plus years of collaborative watershed protection, restoration, and enhancement. Grant funds will leverage existing funding from the Southeast Alaska Watershed Coalition, Sustainable Southeast Partnership, Skagway Traditional Council, and Audubon Alaska in support of a watershed stewardship catalyst position currently hosted by the Skagway Development Corporation. New funds will extend the position and stewardship work into 2024 and 2025. The catalyst will work with a variety of community partners to promote watershed stewardship activities and implement projects that improve, protect, and maintain fish habitat in the greater Skagway area.
The Alaska Fish Habitat Mapping Project	2024	Yes	Yes	Yes	AK	No	Southeast Alaska Fish Habitat Partnership	Trout Unlimited	Active	6	$30,130	$30,130	The Trout Unlimited Alaska Fish Habitat Mapping Project (AKFHMP) is an ongoing effort by Trout Unlimited (TU) staff and volunteers to expand Alaska's Anadromous Waters Catalog (AWC) by documenting previously unlisted anadromous fish species and their spawning, rearing, and migrating habitat in Southeast Alaska. We will engage volunteers in a community science effort to observe habitat use by anadromous fish, document the findings, and nominate new species and/or waters for addition to the AWC. Funds requested will support staff time and transportation expenses for ~4 months during the 2024 and 2025 field seasons.

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Using LiDAR to Improve the Effectiveness of Salmon Stream Restoration in Southeast Alaska	2024	Yes	Yes	Yes	AK	No	Southeast Alaska Fish Habitat Partnership	Southeast Alaska Watershed Coalition	Active	7	$34,760	$34,760	Over the last several years, the Southeast Alaska Watershed Coalition (SAWC) has increasingly become engaged with fish habitat restoration projects taking place across Southeast Alaska, including being involved in the implementation of two heavy equipment projects and 5 hand tool projects in 2022 alone. This project will bolster SAWC's ability to acquire and analyze LiDAR and Photogrammetric data to plan, implement, and monitor salmon stream restoration projects around the region. Seven case study stream restoration sites (3.2 miles of habitat) will directly benefit from this project, and the project will improve SAWC's capacity to identify and implement future stream restoration projects in the region.
Southwest Alaska Salmon Habitat Partnership Coordination (FY24)	2024	Yes	Yes	Yes	AK	No	Southwest Alaska Salmon Habitat Partnership	Bristol Bay Heritage Land Trust	Active	1	$85,000	$85,000	To provide the Partnership the ability to coordinate the implementation of its strategic conservation plan and provide an entity that can arrange for meetings of the Partnership Steering Committee and the Science and Technical Committee, take minutes, carry out directives of the committees, plan science symposia and workshops, interact on behalf of the partnership with the national board and staff to the national board, and most importantly, coordinate and seek matching and other funding opportunities from foundations, government agencies, tribal organizations, etc. to assist partners pursuing projects that help implement the strategic objectives of the partnership conservation plan.
Assessment of the effects of long-term environmental change on the rearing capacity for sockeye salmon in the Upper Nushagak River lakes	2024	Yes	Yes	Yes	AK	No	Southwest Alaska Salmon Habitat Partnership	University of Washington	Active	2	$83,194	$83,194	Quantify how recent long-term environmental change has altered the productivity of sockeye nursery lakes in the Upper Nushagak River
Very-High-Resolution Mapping of Anadromous Streams and Salmon Habitat in the Chignik Watershed	2024	Yes	Yes	Yes	AK	No	Southwest Alaska Salmon Habitat Partnership	University of Alaska Fairbanks	Active	3	$73,821	$36,460	This project will update and improve existing anadromous stream identification and generate nearshore salmon habitat datasets through the acquisition of very-high-resolution optical imagery and bare-earth elevation data from a variety of sources. The resulting mapping products will rely on in-situ hydrographic data and geospatial data fusion techniques critical for monitoring the impacts of long-term environmental change and informing sustainable management of the fisheries supported by the Chignik Watershed.

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Western Native Trout Initiative FY24 Operational Support	2024	Yes	Yes	Yes	Multiple	No	Western Native Trout Initiative	Western Native Trout Initiative	Active	1	$85,000	$85,000	The Western Native Trout Initiative (WNTI) serves as a key catalyst building and maintaining effective conservation partnerships among local, state, and federal partners to catalyze and accelerate conservation of 21 native trout and char species across 12 western states. Project activities include coordination, facilitation, project development/implementation/administration; grant administration; outreach and education activities and products; social media strategies; professional and public events; and WNTI's 12 state Western Native Trout Challenge.
Middle Fork Rock Creek Fish Passage Reconnection Project	2024	Yes	Yes	Yes	MT	No	Western Native Trout Initiative	Trout Unlimited	Active	2	$50,000	$50,000	Rock Creek is a core area for Bull Trout, claiming some of the best remaining spawning and rearing habitat and where recovery efforts should be targeted. Rock Creek also supports populations of genetically non-hybridized Westslope Cutthroat Trout. This project will reconnect 25 miles of priority native fish spawning habitat and improve passage in upper Rock Creek, which is crucial for foraging, migration, and winter habitat. Two fish passage barriers associated with entrainment in irrigation ditches will be consolidated and a fish screen installed. The screen will allow for better fish passage, eliminate water loss from a faulty irrigation ditch, and improve angling and recreation for the public. Trout Unlimited is collaborating with Montana Fish, Wildlife, and Parks, Montana Natural Resource Damage Program, USFWS regional staff, the Lolo National Forest, and the Beaverhead-Deerlodge National Forest for over five years in Rock Creek to prioritize and implement fisheries restoration projects.
Lower McCoy Creek Wet Meadow Restoration	2024	Yes	Yes	Yes	ID	No	Western Native Trout Initiative	Trout Unlimited	Active	3	$60,000	$60,000	The McCoy Creek Wet Meadow Restoration Project is a Trout Unlimited (TU) and Caribou-Targhee National Forest (CTNF) project to improve habitat for Yellowstone Cutthroat Trout and other native species through wet meadow restoration and floodplain reconnection on 2.1 miles of degraded stream. Project will secure and enhance the existing 34 acres of wet meadow habitat and add up to 43 additional acres. High flow refuge habitat, which is lacking in much of the 28 miles of upstream habitat, will become established. Activities that degraded this site to a single thread, incised channel began in the 1800s; these activities ended in the 1990s when the land was acquired by CTNF, but the project site has been unable to recover on its own.

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Mill Creek Yellowstone Cutthroat Trout Conservation Project	2024	Yes	Yes	Yes	MT	No	Western Native Trout Initiative	Trout Unlimited	Active	4	$110,000	$110,000	Mill Creek, the largest watershed in the Upper Yellowstone River Subbasin, supports a Yellowstone Cutthroat Trout (YCT) metapopulation in 45 stream miles and is therefore among the top five conservation priorities for the Upper Yellowstone GMU Workgroup. Nonnative rainbow trout are rapidly expanding their distribution and abundance in the drainage and threaten YCT core conservation populations in upper mainstem Mill Creek and its tributaries through hybridization. Moreover, channelization in 3miles of what should be the most productive low gradient YCT habitat on Mill Creek has resulted in a simplified single thread channel, depauperate of pools, LWD, and spawning gravel, rendering it well below its potential for providing quality YCT spawning and rearing habitat. This reach also harbors high densities of nonnative brook trout in a connected spring creek that if not removed could serve as a source population for invasion throughout the Mill Creek watershed. The main goals of this project are to install a permanent barrier to exclude Rainbow trout and improve spawning and rearing habitat for YCT, and to improve spawning and rearing habitat, as well as improve floodplain function.

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NFHP Board & Science and Data Committee Support	2024	Yes	Yes	Yes	Multiple	No	National Fish Habitat Partnership Board	NFHP Board & Science and Data Committee	Active	-	$333,000	$257,437	To meet the requirements and obligations of the ACE Act, the Board requires base funding for: 1) basic Board operations to include both Board travel and meeting costs and Science and Data Committee (SDC) Co-chair travel and SDC meeting costs; 2) NFHP communications and overall program coordination and support; and 3) maintenance and management of existing data systems for both NFHP projects and assessment data; 4) meeting and staff support for committees and working groups of the National Fish Habitat Partnership.

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NFHP National Assessment	2024	Yes	Yes	Yes	Multiple	No	National Fish Habitat Partnership Board	NFHP Science and Data Committee	Active	-	$175,000	$230,193	The ACE Act requires that a new National Fish Habitat Assessment (Assessment) be completed by 2025 and will provide a portrait of the state of the nation's fish habitat. The Assessment should update the 2015 Assessment, fill in gaps, and include socioeconomic information using national and appropriate FHP datasets. Gaps to be focused on will be hydrology, grazing intensity, and forest product extraction. If feasible within the time available, additional macrohabitat or long-term environmental change modules will be added. It is expected that this project will take 2 years of funding to complete using 1.5 FTEs per year along with additional in-kind assistance from the NFHP community.
2025													

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ACFHP Operational Funding	2025	Yes	Yes	Yes	Multiple	no	Atlantic Coastal Fish Habitat Partnership	Atlantic States Marine Fisheries Commission	Active	1	$125,000	$125,000	The project will support personnel salary and partner travel to allow the Atlantic Coastal Fish Habitat Partnership (ACFHP or Partnership) to carry out its mission, goals, and objectives as stated in its Strategic and Action Plans. ACFHP holds spring and fall meetings of its Steering Committee, with the spring meeting to be supported from the grant. An ACFHP Science and Data Committee meeting will also be supported. Grant funds will also be used to provide partial salary and fringe support for the ACFHP Director, who runs the Partnership on a day-to-day basis. Activities include soliciting restoration proposals by distributing various RFPs, developing agendas and materials for meetings, leading habitat science and assessment projects, organizing and participating in ACFHP and other Fish Habitat Partnership webinars and calls, and outreach and communications initiatives.
Cedar Grove Dam (#24-32) Removal, Construction, and Restoration, Pequest River, White Township, NJ	2025	Yes	Yes	No	NJ	no	Atlantic Coastal Fish Habitat Partnership	Michelle DiBlasio	-	2	$89,543	-	The Cedar Grove dam removal project will involve the removal of a privately owned, obsolete dam from the Pequest River in White Township, Warren County New Jersey. This removal will amplify the impact that the removal of the three most downstream dams (work currently in progress) will have on restoring aquatic connectivity and improving water quality for the benefit of Delaware River Basin (DRB) trust species. The project began in 2022, where project engineers, EHS Support submitted permits (November 2023) and will work with a contractor (TBD) to fully remove dam by November 2024.
Oyster reef restoration for increased habitat and ecosystem services in the Matanzas River	2025	Yes	Yes	Yes	FL	no	Atlantic Coastal Fish Habitat Partnership	Town of Marineland / University of Florida	Active	3	$90,000	$130,709	Severe boat wake / tropical storm damage to shoreline vegetation and associated erosion will be mitigated by 500 linear feet of constructed oyster reef (using a novel engineered product that dissipates wave energy and also creates substantial oyster and finfish habitat (see photos submitted). Oyster arches, cast concrete structures (18"w x 30"L x 18”H weighing 50 lbs. each) will be placed 15-20 ft. off of impacted shoreline to create habitat while also protecting interior shorelines and subsequently planted vegetation (mangroves, marsh grass). Expected start and end date: Oct 2024 - Sept 2026
No Name Dam (#24-31) Removal Restoration Construction, Pequest River, White Township, NJ	2025	Yes	Yes	No	NJ	no	Atlantic Coastal Fish Habitat Partnership	The Nature Conservancy	-	4	$130,093	-	The No Name dam removal project will involve the removal of a privately owned, obsolete dam from the Pequest River in White Township, Warren County New Jersey. Removal of the No Name dam will amplify the impact that the removal of the two most downstream dams (work currently in progress) will have on restoring aquatic connectivity and improving water quality for the benefit of Delaware River Basin (DRB) trust species. The project began in 2022, where project engineers from The Nader Group will submit permits (February 2024) and work with a contractor (TBD) to fully remove dam by November 2024.

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CFPF Coordination & Operational Support	2025	Yes	Yes	Yes	Multiple	no	California Fish Passage Forum	Pacific States Marine Fisheries Commission	Active	1	$125,000	$125,000	This project consists of coordination and operational activities to support the Forum's various activities and initiatives to restore connectivity of freshwater habitats throughout the historic range of anadromous fish in California. The Forum Coordinator is responsible for the basic operations of the Forum. The Forum Coordinator convenes and organizes regular meetings of committees, attends meetings, takes notes, and records official actions, maintains the organization's website, and responds to requests for information. The Coordinator is responsible for ensuring Forum committees are working in a timely fashion towards established goals and is the principal conduit for communicating with Forum members, project partners, and NFHP. The coordinator is involved in the Forum RFP process, from soliciting projects through the RFP, communicating with project partners, collecting progress reports, and publicizing final reports and project accomplishments on the forum website.
Adobe Creek Barrier Assessment, Design and Permitting	2025	Yes	Yes	Yes	CA	no	California Fish Passage Forum	Sonoma County Public Infrastructure	Active	2	$132,000	$132,000	Adobe Creek provides some of the highest quality riparian habitat in the watershed, supports the Federally listed Central California Coast steelhead (Oncorhynchus mykiss). One of the largest barriers of concern to resource regulatory agencies impacting salmonid recovery in this watershed is the Old Adobe Road crossing. The goal of this project is to develop a Preliminary Design for a new bridge at Old Adobe Road and Adobe Creek. Benefits of this project include: improving instream habitat and grade, reducing fish stranding, and allowing the passage of Steelhead and other native anadromous and resident fishes to upstream habitat in Adobe Creek.
Dutch Bill Creek Market Street Weir Repair Fish Passage Improvement Project	2025	Yes	Yes	Yes	CA	no	California Fish Passage Forum	Gold Ridge Resource Conservation District	Active	3	$77,733	$48,717	The Gold Ridge RCD will implement the Dutch Bill Creek Market Street Weir Repair Fish Passage Improvement Project to address a barrier identified in the California fish passage assessment database (PAD) as ID# 712087 at the former Dutch Bill Creek Barrier Elimination Project site constructed in 2009, in the Russian River watershed in Sonoma County, California. The goal is to reduce the jump height and improve fish passage to upstream critical habitat for endangered coho salmon and threatened steelhead trout. The first phase will develop an engineered design for the repair and prepare permit applications.

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Designing for Sturgeon Passage in the San Joaquin River at Eastside Bypass Control Structure	2025	Yes	Yes	No	CA	no	California Fish Passage Forum	US Fish and Wildlife Service	-	4	$58,003	-	We are interested in answering questions to inform design modifications to the Eastside Bypass Control Structure (EBCS) and associated downstream rock ramp, and to validate sturgeon usage before project construction. This project will compile movement data of an anadromous state Species of Concern, together with habitat and environmental variables to improve native fish passage. In conjunction, the proposed monitoring study presents an opportunity to possibly document new habitat usage by sturgeon in the Restoration Area and further inform integrated management of San Joaquin River Restoration Program (SJRRP) Restoration Flows for the benefit of multiple species.
Mid-Klamath Rearing Habitat Assessment and Enhancement Project	2025	Yes	Yes	No	CA	no	California Fish Passage Forum	Salmon River Restoration Council	-	5	$57,984	-	Seasonal low flow barriers in key tributaries in the mid-Klamath and Salmon River subbasins will be manually reconstructed using hand tools to allow for juvenile and adult fish passage. The proposed project will improve salmonid fish passage into 30 to 40 tributaries. The objectives are to maintain and improve access to existing habitat by removing or manipulating seasonal barriers and improving connectivity to coldwater refugia. This is designed to ensure fish passage during critical periods of rearing and migration. Fish passage improvement work will be complemented by habitat enhancement activities such installation of brush bundles and placement of woody debris.
Angel Creek Fish Barrier Removal Project	2025	Yes	Yes	No	CA	no	California Fish Passage Forum	Sonoma County Public Infrastructure	-	6	$168,149	-	The project will provide 65% Engineered Designs and pre-project monitoring for the removal of three fish barriers and associated channel restoration in Angel Creek, tributary to Mill Creek within the larger Russian River watershed. The project site is located in Healdsburg, California immediately upstream of the confluence of Angel and Mill Creeks. The project scope includes upgrading three undersized and damaged culverts, one with a perched outfall, that cause partial barriers to salmonids during the dry season as well as 1,000 ft of in-stream habitat restoration between the downstream and upstream culverts.
North Fork Schooner Gulch Culvert Replacement	2025	Yes	Yes	No	CA	no	California Fish Passage Forum	Private Landowner(s)	-	7	$41,959	-	The California Fish Passage Forum recommends this project for funding to advance the Forum's objective of remediating barriers to anadromous fish migration by providing final (100%) engineered designs for a road crossing on North Fork Schooner Gulch to replace a failed culvert. Replacing the road crossing on NF Schooner Gulch will provide access to 0.7 miles of salmonid habitat, primarily benefiting threatened North Coast Steelhead Trout. CDFW monitored the stream in 2018 and observed several age classes of steelhead within the first 0.15 miles of stream. The Forum aims to connect the project sponsors with consultants offering pro-bono services to enhance their design and implementation resources.

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DFHP Operational Support FY2025	2025	Yes	Yes	Yes	Multiple	no	Desert Fish Habitat Partnership	Western Association of Fish and Wildlife Agencies	Active	1	$125,000	$125,000	Operational support of the Desert Fish Habitat Partnership is critical in attaining our purpose to conserve aquatic habitat in the arid west for desert fishes for the American people by protecting, restoring and enhancing these unique habitats in cooperation with and in support of, state fish and wildlife agencies, federal agencies, tribes, conservation organizations, local partners, and other stakeholders.
Wall Canyon Sucker Barrier Project Phase II	2025	Yes	Yes	Yes	NV	no	Desert Fish Habitat Partnership	Nevada Department of Wildlife	Active	2	$150,000	$108,350	The Wall Canyon Sucker is a unique castonomid native to Wall Creek and Mountain View Creek in Washoe County, Nevada. The species is found nowhere else on earth. The overarching goal of the project is to permanently exclude nonnative salmonids such as Brown Trout and Rainbow Trout from the upper reaches of Wall Creek, where they threaten the population and the currently occupied habitat for this rare native species. The Nevada Department of Wildlife is requesting funding for Phase 2 of the project which will partially fund the construction costs to place a permanent fish passage barrier that will permanently protect the species from issues such as barrier failure and nonnative species encroachment. The project is slated to be completed in the 2027 calendar year.
Sharing the beauty and value of Basin & Range native fishes with communities, classrooms, and online audiences	2025	Yes	Yes	Yes	NV	no	Desert Fish Habitat Partnership	Freshwaters Illustrated	Active	3	$51,000	$33,880	Working in collaboration with Federal, State, and other partners, Freshwaters Illustrated will produce a short film, video short series, image set, and educator materials that build on our existing outreach efforts to help raise public awareness and conservation ethos around the beauty, nature, and value of desert fishes, their habitats, and their conservation needs. We will emphasize Basin & Range fishes and habitats that we have not captured prior imagery of, with an emphasis on Northern Nevada, Owens & Death Valley, and selected Southern Nevada habitats (e.g., Poolfish, springfish habitats). Our short film and imagery will be shared through web and social media, through community events and presentations, through stakeholder conferences, and through K-12 and college educators, as well as being made available for partner needs, exhibits, articles, and other outreach products. We will archive all imagery for use in an anticipated feature film on aquatic ecosystems of the Great Basin.

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White River Novel Three Species Toe Wood Habitat Case Study	2025	Yes	Yes	Yes	CO	no	Desert Fish Habitat Partnership	Colorado Parks and Wildlife	Active	4	$36,000	$32,770	The White River Novel Three Species Toe Wood Habitat Case Study is an exciting new concept bridging stream habitat projects that historically focused on nonnative game species, to native aquatic species of conservation concern. We will take knowledge and concepts learned from two decades worth of habitat restoration work on coldwater salmonid streams and apply those techniques for the benefit of Three Species (Roundtail Chub, Bluehead Sucker, and Flannelmouth Sucker) and other native aquatic species found in the White River. We have documented from our previous stream habitat work that toe wood can increase fish abundance by 1.5 times and biomass by up to 10 times versus non-treated impaired reaches. This has never been attempted in Colorado for our native desert fish species, but the results from high profile salmonid habitat projects and the response of native species present indicate that this project should be successful at increasing the quality of habitat for our desert fishes. We hope that by showing a successful response in native fish abundance and biomass in this small scale project on the White River, we can then begin to refine and apply these habitat projects in other parts of the Upper Colorado River Basin where stream habitat has been impaired. We are implementing a before-after, control-impact (BACI) design to monitor the response in the fish community and habitat pre and post construction and plan to publish our findings.
DARE Coordination, Operation and Partnership Support 2025	2025	Yes	Yes	Yes	Multiple	no	Driftless Area Restoration Effort	Trout Unlimited	Active	1	$125,000	$125,000	The Driftless Area Restoration Effort is a partnership to restore and protect the native aquatic resources of the Driftless Area. We foster collaboration among agencies, businesses, individuals and institutions to conserve and promote the unique Driftless natural heritage.

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Measuring Aquatic Organism Passage in the Driftless Area	2025	Yes	Yes	Yes	Multiple	no	Driftless Area Restoration Effort	Trout Unlimited	Active	2	$34,069	$34,069	The core proposed activities are focused on collecting the necessary field data to be recorded in the Great Lakes Stream Barrier Database https://great-lakes-stream-crossing-inventory-michigan.hub.arcgis.com/, which houses all of Wisconsin's road stream crossing data and will be collated into a national database managed by the Southeast Aquatic Restoration Partnership (SARP). There are approximately 100 individual measurements taken at each crossing will provide multi-metric ranks of fish passage and infrastructure condition. The proposed project requests $34,069.20 from DARE to hire 2 seasonal technicians to collect aquatic organism passage data for culverts and bridges in the Driftless Area of Wisconsin and Iowa. The NFHP-requested funds will be matched with non-federal funds to support the hiring of up to a total of 4 seasonal technicians for Trout Unlimited who will collect field data for road stream crossings. Anticipated areas of field work may include these Wisconsin counties: Pepin, Pierce, St. Croix, Dunn, Sauk, Juneau, Iowa, Grant, Lafayette and Green; and these Iowa counties: Allamakee, Clayton, Fayette, Howard, Delaware and Dubuque.
Danuser Creek/Baecker DARE Habitat Improvement Project, Wisconsin Phase 2	2025	Yes	Yes	No	WI	no	Driftless Area Restoration Effort	Natural Resource Conservation Service	-	3	$15,189	-	Danuser Creek is a tributary of Waumandee Creek, located in the Trempealeau River watershed, WI. The watershed is a priority brook trout area for the DARE. The proposed project will focus on reducing erosion and improving fish habitat and water quality on Danuser Creek. The project site suffers from severe erosion and the accumulation of sediment in-stream. Surrounding farm fields have created an entrenched stream bed and disconnected the stream channel from the natural flood plain. Stable in-stream habitat is lacking as well. Objectives of project are to stabilize 0.583 miles of eroding streambank, and enhance 0.29 miles of instream habitat for brook trout and other native fishes and invertebrates in the project area.
Williams-Barneveld Creek Restoration Project Phase 2: Sediment Removal and Restoration	2025	Yes	Yes	Yes	WI	no	Driftless Area Restoration Effort	The Prairie Enthusiasts	Active	4	$75,000	$75,000	Williams-Barneveld is a tributary of the East Branch Pecatonica River and has excessive sedimentation in the floodplain that is contributing high nutrient loads to the project stream and the E. Pecatonica River. Proposed work is to remove 6,000 tons of sediment from the floodplain, restore 3,040 feet of native riparian vegetation buffer, plant cover crops in the upland acreage, and restore 6.2 acres of wetlands. Proposed work will improve water and habitat quality for brook trout, sculpin enhance opportunities for recreational fishing, and contribute to water quality improvements that will ultimately help remove the stream reach from the 303d impaired water list.

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Evaluating the Distribution and Drivers of Coldwater Fish Communities in two NE Iowa watersheds.	2025	Yes	Yes	Yes	IA	no	Driftless Area Restoration Effort	Upper Iowa University	Active	5	$74,160	$71,657	Numerous landscape, temperature, and instream predictors have been identified as important drivers of biological condition in streams. Due to the strong link between the landscape and aquatic ecosystems, changes in land use can indirectly affect ecological relationships by altering instream habitat and water quality. Upper Iowa University and Iowa Department of Natural Resources are proposing to: 1) assess fish communities and habitat quality at approximately 60 sites within Otter and Roberts creek watersheds; 2) determine genetic ancestry of Brook Trout populations within the two watersheds; 3) and identify the most important landscape and local variables driving Slimy Sculpin (Cottus cognatus), Mottled Sculpin (Cottus bairdii), and Brook Trout (Salvelinus fontinalis) across the watersheds.
EBTJV Operations	2025	Yes	Yes	Yes	Multiple	no	Eastern Brook Trout Joint Venture	Eastern Brook Trout Joint Venture	Active	1	$124,955	$126,000	The Eastern Brook Trout Joint Venture (EBTJV) has developed a roadmap for wild Brook Trout conservation grounded in science and guided by its mission to facilitate integrated approaches to conserving healthy coldwater aquatic resources and fishable wild Brook Trout populations. The EBTJV coordinator supports the goals and outcomes of the EBTJV. This project is to support EBTJV's base operational functions such as: updating our strategic plan; maintaining and growing our website, social media, other outreach campaigns; coordinating efforts with other conservation groups and NFHAP; sharing information about advances and needs in brook trout management across the scientific and management communities; collaboratively identifying needs and finding coordinating the next range-wide and regional data projects; recruiting and selecting on-the-ground projects; and supporting and growing our own organizational capacity, particularly with our 501c(3) sponsor, Canaan Valley Institute.
Restoration and habitat enhancement for Southern Appalachian Brook Trout in Wright, Abner, Dogwood, and Emory Creeks, Jocassee Gorges, South Carolina	2025	Yes	Yes	Yes	SC	no	Eastern Brook Trout Joint Venture	South Carolina Department of Natural Resources	Active	2	$50,000	$50,000	This project proposes to restore native Eastern Brook Trout populations in four streams in three patches totaling 14.6 km (9.1 miles) of habitat. The proposal includes comprehensive restoration, including non-native removals (eradication) above barriers in 8.7 km (5.4 miles) of stream, physical in-stream habitat enhancement/restoration in all 14.6 km, followed by reintroduction of native Brook Trout in 14.6 km. Fish and habitat monitoring will occur for five years post-project.
Burke’s Pond Dam Removal, Restoration, Habitat Enhancement, Sucker Brook, Pepperell, MA	2025	Yes	Yes	Yes	MA	no	Eastern Brook Trout Joint Venture	Trout Unlimited Squan-a-Tissit Chapter	Active	3	$50,000	$50,000	Burke’s Pond Dam is the only remaining permanent barrier to the migration of fish and other aquatic species along Sucker Brook. Project will remove Burke's Pond dam, opening an additional 1.1 mile of Sucker Brook upstream (4 miles total reconnected), and also improve public safety, add large instream wood, restore 2-3 acres riparian habitat, relocate brook trout to the stream from nearby Gulf Brook.

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Waits River Culvert Replacements in Groton State Forest, Orange, Vermont	2025	Yes	Yes	Yes	VT	no	Eastern Brook Trout Joint Venture	Trout Unlimited	Active	4	$50,000	$50,000	This project proposes to replace two proximate culverts on the same unnamed tributary to the Waits River and reconnect the remaining two miles of upstream habitat. Supporting work by project partner Vermont Fish and Wildlife Department will also be restoring 3.2mi of in- stream woody habitat both in the tributary upstream and downstream of the culverts, but also on the adjacent stream network, amplifying the overall benefit to stream reconnection at this location. This will open 2 miles of headwater stream (reconnecting 5.7 mi total).
Batavia Kill Reconnection Project for Brook Trout, Delaware County, New York	2025	Yes	Yes	Yes	NY	no	Eastern Brook Trout Joint Venture	Trout Unlimited	Active	5	$49,870	$49,870	The Batavia Kill project will include the replacement of three culverts that will reconnect over 4 miles of high-quality headwater habitat for Brook Trout. Location chosen as the highest priority site for potential culvert replacement project as part of TU's East Branch Delaware River Trout Habitat Improvement Project.
North Fork Bens Creek Aquatic Passage and Large Wood Project, Pennsylvania	2025	Yes	Yes	Yes	PA	no	Eastern Brook Trout Joint Venture	Somerset Conservation District Pennsylvania	Active	6	$50,000	$45,230	The proposed North Fork of Bens Creek (PA) large wood fish habitat and aquatic passage project is intended increase the biomass of the stream and buffer the watershed against long-term environmental changes. This will be accomplished through the installation of strategically placed large woody material and upgrading two failing stream crossings in the upper basin. The project goals are to increase stream connectivity, encourage infiltration and groundwater recharge, and engage floodplain reconnection and protection. An additional project focus is to increase the variety of aquatic and riparian habitats by increasing the floodplain water table, managing sediment deposition, creating side channels, fish refuge, floodplain wetlands and encouraging fine debris and leaf pack storage.
East Calais Mill Dam Removal, Kingsbury Branch, Calais, Vermont	2025	Yes	Yes	No	VT	no	Eastern Brook Trout Joint Venture	Friends of the Winooski River	-	7	$50,000	-	Removing the East Calais Mill dam would open 2.5 miles of main stem upstream habitat and 10 miles of upstream tributaries to the wild brook trout population, while a dam in the lower end of the Kingsbury will remain a barrier to other salmonid populations downstream. Removing this impoundment will additionally re-establish up to 7 acres of connected floodplain. This floodplain will more effectively manage flood waters and will be restored to floodplain forest.

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FY25 Fishers & Farmers Coordination Communication and Science (Operations)	2025	Yes	Yes	Yes	Multiple	no	Fishers and Farmers Partnership	Fishers and Farmers Partnership, Habitat for Humanity La Crosse Area, University of Missouri	Active	1	$120,000	$121,000	Fishers & Farmers Partnership requests $120,000 for operational support including funding for Coordination, Communications and Science Team needs for FY25. The primary focus of Fishers & Farmers Partnership is both on-the-ground and social conservation fish habitat projects in a primarily agricultural habitat in the Upper Mississippi River Basin. Fishers & Farmers provides technical and financial support for voluntary conservation working with farmers/landowners on private lands in high priority areas. Support for habitat restoration in the Midwest in cool and warm water streams, riparian corridors and uplands fills an un-met conservation need.
FY25 Watershed Leaders Network Workshop	2025	Yes	Yes	Yes	WI	no	Fishers and Farmers Partnership	Habitat for Humanity	Active	2	$35,000	$35,000	Fishers & Farmers Partnership - Watershed Leaders Network will host a workshop with partners, to make peer-to-peer learning and a lively, practical action planning format available to farmer-driven watershed initiatives and their partners. The format builds leadership, offers perspective and working information, and creates space for thoughtful connection, identification of next wise steps, and shared work, to overcome social barriers.
FY25 Expanding and Protecting the Little Cannon River Fishery, MN	2025	Yes	Yes	Yes	MN	no	Fishers and Farmers Partnership	Clean River Partners	Active	3	$100,000	$100,000	In this project, we will expand and protect the fishery of the Little Cannon River, a trout stream in the Cannon River watershed. Through perpetual conservation easements on privately owned land adjacent to current public access land, we will expand public access for fishing. We will enhance the long-term effectiveness of stream restoration work that will be carried out by the Minnesota DNR (through other sourced funds) by conducting intense outreach and providing financial incentives to farmers to implement managed grazing, cover crops, and reduced tillage on lands that currently contribute significant sediment loading into the Little Cannon River.
FY25 Farmer-Led Efforts to Improve Aquatic Habitat in the Lower Illinois-Lake Chautauqua Watershed	2025	Yes	Yes	Yes	IL	no	Fishers and Farmers Partnership	American Farmland Trust	Active	4	$84,938	$50,000	American Farmland Trust (AFT) proposes to engage farmers and partners in several demonstration projects and outreach events. The demonstration projects will offer an opportunity for farmers to see best management practices (BMPs) as well as to test different combinations of BMPs and their impact on fish habitat. The outreach events will increase awareness of watershed and fish habitat efforts and provide farmers with access to resources. Where possible, AFT plans to focus project efforts on women and minority farmers. The overall project objective is to reduce sediment, nitrogen, and phosphorus loading, and in turn improve water quality and fish habitat.

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FY25 Plum Creek Access, Stream, Farm & Floodplain Restoration Project, WI	2025	Yes	Yes	No	WI	no	Fishers and Farmers Partnership	Mississippi Valley Conservancy	-	5	$46,435	-	This project includes floodplain restoration/enhancement and an innovative method (virtual fencing) to keep cattle to limited stream access so they aren't destabilizing stream banks or impacting sensitive stream, floodplain/riparian areas for fish and vegetation. This will act as a demonstration project to show how livestock can be contained to protect both fish and wildlife habitat.
FY25 Shaping Streambanks for Fishers and Farmers: Boosting Conservation along the Dry Run Greenbelt, IA	2025	Yes	Yes	No	IO	no	Fishers and Farmers Partnership	Winneshiek County Conservation	-	6	$95,075	-	The purpose of this project is to restore streambanks along Dry Run Creek near Decorah, Iowa. The project is a collaboration between two farm families and the Winneshiek County Conservation Board. Our main goal is to improve stream habitat and the cold-water fishery. Shaping streambanks will also provide access for anglers along the Dry Run Greenbelt and reduce flood intensity in the high-quality fishing areas along the Upper Iowa River. Our long-term goal is to augment past watershed work, boost conservation efforts, and create a showcase farm conservation area within view of a busy highway and a new recreational trail. We are trying to work with TU-DARE on this project.
FY25 Promoting flood resilient stream communities through social and hydrologic connectivity in Coon Creek	2025	Yes	Yes	No	WI	no	Fishers and Farmers Partnership	Coon Creek Community Watershed Council	-	7	$81,716	-	This project will advance a culture of resilience in the CCW in the face of accelerating flooding. First, it will work to build community and conduct outreach around agricultural conservation by funding a CCCWC watershed coordinator. Second, it will fund efforts to monitor and navigate the effects of watershed-wide dam decommissioning amid chronic flooding. Finally, it will support broader efforts to conduct conservation outreach and share environmental data, including in priority F&F, Upper Mississippi River watersheds. These components are iterative, and work to address interlocking concerns related to flooding, stream ecosystem health, and watershed literacy.
FY25 French Creek, IL Streambank Stabilization: Stone Toe Protection with Native Vegetation	2025	Yes	Yes	No	IL	no	Fishers and Farmers Partnership	Knox County Soil & Water Conservation District	-	8	$63,438	-	This project will provide cost-share to two landowners on French Creek to stabilize three severely eroded reaches. The practice of Stone Toe Protection (base of the bank slope) will use traditional river engineering materials (riprap rock), native wood, and native vegetation to protect against further erosion. This practice uses minimal materials that focus where the scouring occurs. After planted native vegetation, the mid and upper bank will stabilize and heal at a far lower cost than the typical practice of reshaping the bank to a 1:3 slope and lining with 18-24 inches of riprap.

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Great Lakes Basin Fish Habitat Partnership Operational Support (FY25)	2025	Yes	Yes	Yes	Multiple	no	Great Lakes Basin Fish Habitat Partnership	Great Lakes Basin Fish Habitat Partnership	Active	1	$125,000	$125,000	The Great Lakes Basin Fish Habitat Partnership is requesting $125,000 in operational support for FY 2025 to continue implementation of the Strategic Plan and fund fishery habitat restoration, barrier removal (dams and culverts) and non-barrier proposals (inventories, assessments, and feasibility and design) to benefit fish and wildlife resources in the Great Lakes Basin.
GPFHP Operational Funding	2025	Yes	Yes	Yes	Multiple	no	Great Plains Fish Habitat Partnership	US Fish and Wildlife Service	Active	1	$125,000	$125,000	This project's purpose is to partially fund the coordinator position to stay engaged with FHP collective and complete required information exchanges between the National Board and the FHP partners. Most of the work is associated with project development and coordination.
Laramie County Native Fish Habitat Project	2025	Yes	Yes	Yes	WY	no	Great Plains Fish Habitat Partnership	Laramie County Conservation District	Active	2	$60,000	$60,000	The partnership, comprised of the Wyoming Game and Fish Department (WGFD), USFWS Partners for Fish and Wildlife (PFW), and the Laramie County Conservation District (LCCD), propose to protect perennial Great Plains streams and adjacent riparian areas within priority tributaries to sustain "native species of greatest conservation need" fishes. Proposed actions include developing adaptive grazing plans and providing needed infrastructure for these plans to improve riparian condition and resiliency along crucial stream reaches that are experiencing over-widening and overgrazing. Plan emphasis is on resting riparian pastures while still maintaining economic viability and stability for ranchers - particularly during periods of drought.
South Branch Buffalo River Restoration	2025	Yes	Yes	No	MN	no	Great Plains Fish Habitat Partnership	Buffalo - Red River Watershed District	-	3	$50,000	-	The South Branch Buffalo River Restoration project proposes to restore 18 miles of channel to a stable stream, improving aquatic habitat and connectivity. Ecological benefits include providing stable stream habitat conditions by reestablishing the river profile. The design allows for natural meandering of the channel over time, which will naturally improve aquatic habitat. This is a tenant of natural channel design principles. The project will also reestablish connectivity throughout the restoration of 18 miles of the South Branch Buffalo River, longitudinally for fish movement and laterally for floodplain connectivity.
Fish Passage/Partners Small Project Program	2025	Yes	Yes	No	SD	no	Great Plains Fish Habitat Partnership	US Fish and Wildlife Service	-	4	$30,000	-	Many potential projects that would partnership potential projects with the U.S. Fish & Wildlife Service (USFWS) do not align temporally and are out of sync due to proposal dates. NFHP projects are proposed a year in advance and USFWS projects through the Fish Passage Program and the Partners for Fish and Wildlife are proposed at the front end of that fiscal year. This project would attempt to align the potential to create projects that share priority. This project would create a placeholder to dedicate a nominal amount of funding to future projects identified by these programs.

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Painted Woods Lake Fish Passage Project	2025	Yes	Yes	Yes	ND	no	Great Plains Fish Habitat Partnership	McLean County Water Resource District	Active	5	$70,000	$18,800	This project will replace the existing weir structure at the outlet of Painted Woods Lake with a rock riffle structure that promotes fish passage and enhances the ecological function of Painted Woods Creek, a tributary of the Missouri River in McLean County. By adding 90 acres of floodplain habitat and reconnecting 17.5 miles of in-stream habitat, the project will ultimately support populations of numerous game fish species and provide vital recreation opportunities for the public.
Upper Yellowstone Restoration Project	2025	Yes	Yes	No	MT	no	Great Plains Fish Habitat Partnership	Montana Freshwater Partners	-	6	$60,000	-	Over the past two years, Montana Freshwater Partners has been leading the development of an Upper Yellowstone Project Prioritization Plan in partnership with other local organizations and agencies. Projects are focused on improving drought and flood resiliency and overall watershed health. To date we have identified and ranked over 50 restoration, education, outreach, and monitoring projects. We are now seeking funding to develop designs and implementation plans for top ranked projects, as well as for staff capacity to continue partner and landowner outreach.
Hawaii Fish Habitat Partnership Operational Support FY25	2025	Yes	Yes	Yes	Multiple	no	Hawaii Fish Habitat Partnership	Pacific Islands Fish and Wildlife Office	Active	1	$125,000	$125,000	The Hawaii Fish Habitat Partnership (FHP) requests $125,000 for operational support for FY25. The primary focus of the Hawaii FHP is on-the-ground conservation of both inland water habitats and coastal aquatic ecosystems. The Hawaii FHP provides technical and financial support for voluntary conservation of high-value streams, estuaries, and coastal aquatic systems. Support for habitat restoration in these systems fills an un-met conservation need in the islands.
Aquatic Habitat Restoration in Kalou fishpond in the Waialeʻe, Oʻahu, Hawaiʻi	2025	Yes	Yes	Yes	HI	no	Hawaii Fish Habitat Partnership	North Shore Community Land Trust	Active	2	$100,000	$80,500	This project will enhance aquatic habitat in Kalou Fishpond, a uniquely well-preserved pond and wetland complex in the Waialeʻe area on the north shore of Oʻahu. Currently, half of the two-acre pond and surrounding area is overgrown with invasive vegetation. This project will achieve the following objectives: 1) minimize presence of invasive vegetation; 2) minimize presence of invasive aquatic animal species; and 3) promote recruitment of native aquatic fish and invertebrates that are recreationally and culturally important. Funds will support a site manager and restoration technicians, vegetation clearing will take place during monthly community workdays.
Mālama Maunalua Habitat Restoration Program FY25 (IV)	2025	Yes	Yes	No	HI	no	Hawaii Fish Habitat Partnership	Malama Maunalua	-	3	$80,275	-	Mālama Maunalua facilitates the growth of native coral and algae to improve water quality and increase fish abundance and biomass. The program is part of a larger ridge to reef effort that enhances MM’s efficacy at restoring nearshore ecosystems within the Bay by addressing the impacts of anthropogenic stressors like urbanization and long-term environmental change.

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Supporting Wetland Habitat Restoration, Education, and Watershed Health at Kahanaiki	2025	Yes	Yes	No	HI	no	Hawaii Fish Habitat Partnership	Le Jardin Academy	-	4	$47,960	-	The Kawainui-Hāmākua Wetland Complex is the largest remaining wetland in Hawaii. Historically the second largest loko‘ia (fishpond) in Hawai'i, the open waters of Kawainui supported an abundance of fish including awa, ama'ama, and several species of native goby, or ‘o‘opu. In recent years, environmental pollution and invasive species, including non-native grasses and aquatic invasive species such as tilapia have plagued Kawainui. In 2005, Kawainui was designated a Ramsar Wetland of International Importance providing critical habitat for migratory birds and four species of endangered native Hawaiian waterbirds, and DLNR Forestry and Wildlife manages Kawainui as a Wildlife Sanctuary.
LokoEa/Uko’a Tributary Assessment Project	2025	Yes	Yes	No	HI	No	Hawaii Fish Habitat Partnership	Malama Loko Ea	-	5	$84,275	-	This assessment will evaluate habitat conditions and biological communities in the LokoEa/Uko’a Tributary. Our work plan will collect physical, chemical and biological information from the full length of the water flow from mauka to makai (from the sea to the inland areas). To conduct this, we will use novel remote sensing tools along with basic science data collection. The use of drones will photograph the system for mapping and spectral photography will be utilized to spectrum tag vegetation for species identification and mass calculation. MLEF will use an underwater drone to locate native and introduced stream species. GPS and digital video and photographs will be used to provide documentation and records.
KPFHP Coordination and Operational Support	2025	Yes	Yes	Yes	AK	no	Kenai Peninsula Fish Habitat Partnership	Kenai Watershed Forum	Active	1	$85,000	$85,000	The Kenai Watershed Forum (KWF) is seeking funding to continue providing coordination and operational services to the Kenai Peninsula Fish Habitat Partnership (KPFHP, or the Partnership) and its steering committee. Since its inception in 2010, KWF has provided coordination and fiscal sponsorship to the Partnership, which currently consists of 36 active and diverse partners. Funding for this project will support the expansion of the Partnership and the implementation of priority projects aimed at enhancing fish habitat on the Kenai Peninsula. Our overarching goal is to maintain the well-being of fish, people, habitat, and economies. KPFHP will continue to focus on all fish species and habitat types within the Partnership area, spanning freshwater and marine environments. This will be accomplished by continuing to foster effective collaborations among stakeholders by facilitating regular meetings of the KPFHP steering committee, planning a biennial fish habitat science symposium, and other outreach opportunities. The KPFHP Coordinator will also solicit high quality project proposals to address the top threats to fish habitat through an annual request for proposals.

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River Center Access and Restoration Demonstration Project	2025	Yes	Yes	Yes	AK	no	Kenai Peninsula Fish Habitat Partnership	Kenai Peninsula Borough	Active	2	$18,200	$18,200	This project will construct an on-site example of river access and restoration techniques at the Kenai River Center, which presents a unique opportunity for dozens of landowners to directly observe and interact with representatives from the Alaska Department of Fish and Game and the Kenai Peninsula Borough. The current status of the boardwalk includes elevated light penetrating boardwalk, root wad installation and some spruce tree revetment. It is the latter that sorely needs attention. This project would add one section of elevated light penetrating boardwalk and restore 200 linear feet of spruce tree revetment in a manner that allows for direct on-site observation at the location where landowners seek permits. When questions arise during the permitting process regulatory agencies have the ability to show these techniques without scheduling separate site visits. It will result in dozens of direct interactions annually with permittees.
Kenaitze's Kenai River Baseline Water Quality Monitoring	2025	Yes	Yes	Yes	AK	yes	Kenai Peninsula Fish Habitat Partnership	Kenaitze Indian Tribe	Active	3	$43,763	$43,763	Kenaitze Indian Tribe (Kenaitze, "the Tribe") requests funding to collaborate with Kenai Watershed Forum (KWF) on local water quality monitoring efforts in calendar years 2025-26 by targeting three (3) sites of interest to the Tribe, and providing mentoring that will grow future generations of scientists and natural resources professionals. One of Alaska's most-visited, the Kenai River exemplifies how Alaskan fisheries are tied directly to local food security, economies, ecosystems, and cultures-as Kahtnuht'ana Dena'ina ("People of the Kenai River", Kenaitze) have known for millennia. Much of the watershed is road-accessible and adjacent to developed areas, elevating the timeliness of water quality monitoring efforts to identify concerns early and suggest proactive solutions, such as policy and/or infrastructure changes. Since 2000, the Kenai River has had an active water quality monitoring program recommended by the Kenai River Special Management Area (KRSMA) Board, and testing three (3) additional sites to establish a baseline (objective) will support efforts to monitor and preserve surface water quality (goal). Requested funds support hours for Kenaitze Interns, KWF laboratory and data management expenses, and mentoring for Kenaitze personnel who conduct water quality monitoring and research efforts under KWF guidance. The proposed activities of this continued partnership promise to produce high-quality research, actionable outcomes, and a shared culture of stewardship.

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Stream Watch: Volunteer Restoration and Outreach on the Kenai Peninsula	2025	Yes	Yes	Yes	AK	no	Kenai Peninsula Fish Habitat Partnership	Kenai Watershed Forum	Active	4	$54,985	$54,985	Stream Watch utilizes a group of trained volunteers (ambassadors) and single-day stewardship events to perform short and long term habitat protection at high use fishing sites throughout the Kenai Peninsula. Ambassadors regularly patrol high use areas to help collect litter, protect sensitive riparian vegetation, provide the public with environmental educational messaging and help to create a culture of stewardship on the Kenai Peninsula, leading to enhancement of fish habitat that sees high pressure each year. Habitat enhancement will not only lead to a positive impact on fish populations but continued enjoyment of users.
Salmon Safe Agriculture - Growing Practices for Farming on a Salmon Landscape	2025	Yes	Yes	No	AK	no	Kenai Peninsula Fish Habitat Partnership	Cook Inletkeeper	-	5	$22,400	-	The Salmon Safe Agriculture project is a proactive effort to educate Kenai Peninsula residents and farmers of the value of sustainable agricultural practices to ensure healthy fish habitat with a goal of building broad-based and long-term support for salmon habitat protection in light of an expanding agriculture industry. Our goal is to build broad-based and long-term adoption of salmon-safe practices across all agricultural sectors in Alaska. Our objectives are to disseminate the well-vetted Salmon-Safe Agriculture Principles for Alaskan Farmers broadly and promote a salmon-safe agricultural ethic through engaging communications with particular attention to new farmers and growers.
Outreach as Early Detection and Rapid Response: Raising Awareness, Aquatic Invasive Species	2025	Yes	Yes	No	AK	no	Kenai Peninsula Fish Habitat Partnership	Trout Unlimited Kenai Peninsula	-	6	$13,768	-	This project seeks to increase public awareness of aquatic invasive species (AIS) on the Kenai Peninsula. With the creation of targeted outreach materials, Trout Unlimited (TU) and other members of the KP-FHP will work to increase knowledge throughout the recreational community of AIS impacts on fish and wildlife. It is the goal of this project to prepare individuals and specific user groups to identify and detect novel AIS and provide information about specific actions they can take to help prevent the spread of AIS on the Kenai Peninsula. The audiences reached through these outreach materials include anglers, float plane operators, fishing guides, and lodge-based wilderness/tourism operators. Through this project, the development of outreach materials will allow the KPFHP and the Kenai Peninsula Cooperative Invasive Species Management Area (KP-CISMA) to reach a wider audience with effective and memorable AIS educational content. Printed brochures, pamphlets, and stickers, as well as online content will be created, printed, distributed, and be made available online.

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Creating Kenai Watershed Stewards through Adopt-A-Stream Education Programs	2025	Yes	Yes	No	AK	no	Kenai Peninsula Fish Habitat Partnership	Kenai Watershed Forum	-	7	$36,969	-	Adopt-A-Stream (AAS) is a long-standing K-12 program that aims to help young people on the Kenai Peninsula create long lasting personal relationships with our local ecological communities. Through consistent programming, students are educated about environmental processes and issues. This consistent contact helps build more environmentally responsible communities, thus perpetuating a culture of watershed connection and protection. Through classroom visits and creek studies, students are exposed to a variety of conservation and outdoor topics such as invasive species, water quality, macroinvertebrate studies, and conservation careers. Students learn how to recreate safely, and how to interact with the natural world in the most sustainable and habitat protecting way possible. These outdoor experiences allow students to learn about their natural community, and develop personal relationships to the waters and lands that surround them. These outdoor experiences are crucial to building and inspiring the river stewards of the future.
Marten Lake Flow Control Repairs	2025	Yes	Yes	No	AK	no	Kenai Peninsula Fish Habitat Partnership	Cook Inlet Aquaculture Association	-	8	$8,250	-	Cook Inlet Aquaculture Association (CIAA) is seeking funding to repair a flow control structure at the outflow of Marten Lake, in the Big River Lakes system. The flow control ensures there is adequate water flow from the lake to ensure that adult salmon can make it into the system to spawn and so juvenile salmon can make it out of the lake. The pond lining on the structure is aging and needs to be replaced in order to remain effective. The repairs will help to ensure salmon are able to return to this system for years to come. CIAA built flow control structure in 1985 after documenting 5,000-8,000 adult salmon were unable to ascend Marten Creek to spawn in the lake.
Baby Salmon Live Here	2025	Yes	Yes	No	AK	no	Kenai Peninsula Fish Habitat Partnership	Kachemak Heritage Land Trust	-	9	$30,000	-	A coalition of Kenai Peninsula partners including Kachemak Heritage Land Trust, Kachemak Bay Conservation Society, Kenai Watershed Forum, and Kachemak Bay National Estuarine Research Reserve will build upon the existing, effective salmon education outreach programs that have been established, focusing on the "Baby Salmon Live Here" campaign. A primary objective is to translate existing science and outreach onto the babysalmon.org website. This project is focused on disseminating existing and future science about salmon and salmon conservation to as broad an audience as possible. As more local residents, policymakers, fishing industry workers, and visitors understand the importance of land to salmon, we anticipate a behavior shift towards conservation-minded practices.

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Mat-Su Basin Salmon Habitat Partnership Coordination and Outreach Engagement	2025	Yes	Yes	Yes	AK	no	Matanuska Susitna Basin Salmon Habitat Partnership	Trout Unlimited	Active	1	$125,000	$126,000	The Mat-Su Basin Salmon Habitat Partnership (Partnership) formed in 2005 to bring together diverse stakeholders to protect salmon habitat through conservation, education and restoration. Through collaboration, the Partnership advances the goals identified in its Strategic Action Plan, to guide salmon conservation and science efforts in the Mat-Su Basin. To continue past success, this proposal seeks funding to 1) support the Partnership Coordinator position to provide administrative support and coordination functions for the Partnership 2) conduct trainings and workshops for partners and community members, including the 2025 Mat-Su Salmon Science and Conservation Symposium and 3) advance public and partner engagement and outreach activities for the Partnership to benefit salmon habitat in the Mat-Su Basin.
Protecting Groundwater Connections for Mat-Su Basin Salmon Habitat Resilience	2025	Yes	Yes	Yes	AK	no	Matanuska Susitna Basin Salmon Habitat Partnership	Cook Inletkeeper	Active	2	$57,215	$57,215	Cook Inletkeeper will acquire aerial thermal imagery from 25 river miles of the lower Little Susitna River - one of the most productive fisheries in the Mat-Su basin, and map discrete groundwater connections. These inputs, may serve as cold water refugia - critical habitat to protect for long-term resilience of Chinook and Coho salmon populations during long-term environmental changes. This lower reach exhibits the warmest temperatures and thus presents a potential thermal bottleneck for migrating fish. These results, along with cold water refugia identified in two other Mat-Su systems, will be the foundation for outreach to landowners and resource managers to identify existing mechanisms and potential pathways to ensure persistent groundwater connectivity and thermal refugia in a warming future.
Anadromous Fish and Northern Pike Detection on the Upper Tributaries of the Theodore and Ivan Rivers	2025	Yes	Yes	Yes	AK	yes	Matanuska Susitna Basin Salmon Habitat Partnership	Tyonek Tribal Conservation District	Active	3	$62,400	$47,400	Though the fisheries contributions of the Theodore and Ivan Rivers in the Upper Cook Inlet is well known, much of the headwater tributaries of both systems are not listed as anadromous habitat and the status of invasive pike is unknown. Using anadromous fish survey methods and eDNA collection at a minimum of six tributaries, Tyonek Tribal Conservation District (TTCD) staff will chronicle the extent of anadromous habitats and determine if northern pike have spread into these systems. This will increase cataloged miles of anadromous waters in the Theodore and Ivan rivers – an area important to subsistence harvest and vulnerable to proposed development and aquatic invasive species, and provide these streams greater state protections that come with being listed as anadromous. The project will also inform invasive species management, development and conservation decisions on these systems.

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Removing Salmon Barriers Through the Mat-Su Fish Passage Program: Cottonwood Creek Fish Passage Culvert Replacement	2025	Yes	Yes	Yes	AK	no	Matanuska Susitna Basin Salmon Habitat Partnership	Mat-Su Borough	Active	4	$60,000	$60,000	This project would replace three open-bottom arch culverts that are a barrier to both adult and juvenile salmon on Fern Street in the Cottonwood Creek drainage - a priority of the Mat-Su Salmon Partnership and identified as a barrier to juvenile salmon by Alaska Department of Fish and Game (ADF&G) Fish Passage Improvement Program. Cottonwood Creek supports Chinook, Coho and Sockeye salmon. Currently, Fern Street is the lowest remaining barrier on Cottonwood Creek, blocking 71% of the watershed overall. Its removal would improve passage for fish to more than 8.2 upstream miles and 659 lake acres and provide unimpeded downstream access to juvenile rearing and overwintering habitat - including at low flows.
Elodea Surveys within Nancy Lake State Recreation Area	2025	Yes	Yes	Yes	AK	no	Matanuska Susitna Basin Salmon Habitat Partnership	Cook Inlet Aquaculture Association	Active	5	$17,514	$17,514	Elodea is a highly invasive aquatic plant that threatens salmon and fisheries in the Mat-Su. It is known to occur in three current Mat-Su locations. To support early detection and rapid response, Cook Inlet Aquaculture Association (CIAA) will conduct early detection surveys for the presence of the invasive aquatic plant Elodea canadensis in 22 high risk waterbodies within the Nancy Lake State Recreation Area. Any elodea found will be reported to lead state agencies, supporting early detection and rapid response to locally eradicate and prevent further spread of elodea in the Mat-Su region before it becomes widely established. Survey data will be submitted to the Alaska Exotic Plants Information Clearinghouse (AKEPIC) annually. CIAA staff will educate recreationalists about elodea and why this plant can be detrimental to Alaska's salmon resources and distribute educational material about elodea. Project lead will present results at the Mat-Su Salmon Science and Conservation Symposium.
Midwest Glacial Lakes Partnership Operations	2025	Yes	Yes	Yes	Multiple	no	Midwest Glacial Lakes Partnership	Michigan Department of Natural Resources	Active	1	$81,898	$81,898	The Midwest Glacial Lakes Partnership works to protect, rehabilitate, and enhance sustainable fish habitats in glacial lakes of the Midwest for the use and enjoyment of current and future generations. Partnership staffing is limited to the coordinator, and funding for that position is required to coordinate the partnership's three committees, implement tasks delegated by the committees to the coordinator, maintain partnership operations in support of the partnership's mission, goals, and objectives, and participate in the National Fish Habitat Partnership. This project will partially fund the coordinator and provide an operations budget for partnership activities including printing copies of the partnership's Shoreline Living publication. Additional objectives will include implementation of Midwest Glacial Lakes Partnership objectives on inland lake management, long-term environmental change, outreach, and habitat conservation grants within Michigan.

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Acre-for-acre Restoration of Lake Hydrology and Pike Spawning Habitat for the 1,075-acre Cedar Lake	2025	Yes	Yes	Yes	MI	no	Midwest Glacial Lakes Partnership	Cedar Lake Improvement Board	Active	2	$84,310	$84,310	Cedar Lake is a 1,050-acre, glacial lake situated north of Saginaw Bay in Alcona and Iosco Counties. This 5-mile long, 0.5-mile wide, shallow lake is connected to nearby Lake Huron by an intermittent stream through an outlet structure at the north end of the lake. To the northwest, the 3,300-acre watershed is adjacent to only 30% of the shoreline; the remainder of the lake's shoreline loses water year-round. Only two small drainage pathways intermittently deliver surface water to the lake from this watershed; Sherman Creek to the south, and Jones Ditch to the north. Comprised mostly of wetlands, watershed connections were disrupted in the 1970s with roadway drainage infrastructure. Since good record-keeping began in 2004, documented lake levels have dropped as much as 28 inches in late summer months because of these historic modifications. Comprehensive lake level and watershed hydrology monitoring since 2004 has shown that these hydrology disruptions with the watershed subject the lake to significant evaporative losses, particularly during dry summers when surface flows are limited. These are now targeted in a 2011 Watershed Management Plan; Sherman Creek efforts are complete; Jones Ditch is targeted here. Michigan Department of Natural Resources concluded that although diverse, the fisheries of Cedar Lake are limited by water depth, warm summer temperatures, and isolation from historically connected adjacent wetlands.

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Advancing a Statewide Lake Steward Program to Promote Natural Shorelines and Fish Habitat	2025	Yes	Yes	Yes	MN	no	Midwest Glacial Lakes Partnership	Minnesota Lakes and Rivers Advocates	Active	3	$58,250	$58,250	Midwest glacial lakes are in trouble. About half of Minnesota's natural shorelines have already been lost, and the rate of loss is accelerating. Lake water quality and fish habitat are degrading. The status quo is not working. Fifty years of state shoreline vegetation standards and local government regulations have failed to adequately protect our natural shorelines. After listening to many people and organizations about protecting and restoring shorelines, several themes emerged; lakeshore property owners need support and guidance on good shoreline stewardship, and community leadership can shift social norms towards protecting and restoring natural shorelines. This project will focus on these themes in a variety of ways. Minnesota Lakes and Rivers (MLR) will train lake association members to evaluate shoreland properties and provide support to property owners to take actions to improve their lake stewardship for water quality and fish habitat. MLR will work with lake associations and the Minnesota Natural Shoreline Partnership across the state to raise awareness on the importance of natural shorelines. Initiate a sustained, consistent message from all partner organizations. Increase training and outreach for key audiences including lakeshore owners, landscapers and consultants. To facilitate learning across the region, MLR will partner with the Oneida County (WI) Lakes and Rivers Association to advance both organization's Lake Steward programs.

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Ottawa County Natural Shoreline Restoration Project	2025	Yes	Yes	Yes	MI	no	Midwest Glacial Lakes Partnership	Ottawa Conservation District	Active	4	$99,052	$68,385	Ottawa County contains several inland lakes with residential populations. Construction pressure, land use change, and recreational activities have impacted shoreline erosion, which has historically been addressed through hard armoring and the installation of seawalls. Unfortunately, this leads to negative ecological impacts and significant shoreline and near shore habitat loss. We seek to address concerns through a campaign of education and outreach, and cost share funding to encourage native plantings and natural shoreline planning/implementation throughout Ottawa County lakes. Ottawa County project staff will provide information and technical assistance to landowners through mailers, social media, public presentations, events, and workshops held in or near lake communities. The OCD will also help landowners plan projects to implement discussed BMPs. One limiting factor in ALL conservation efforts, but especially in addressing the concerns of individual property owners, is lack of funding. Many proposed best management practices are costly, and landowners simply do not have the funds to carry out discussed plans. The OCD also proposes to utilize a pool of cost share funds to help reduce out of pocket costs for landowners to implement natural shoreline designs on their property. The OCD also plans to conduct limited monitoring at several sites including water sampling (basic nutrient/chemical analysis) and macroinvertebrates.
Walleye Habitat Engagement in Wisconsin	2025	Yes	Yes	Yes	WI	no	Midwest Glacial Lakes Partnership	Wisconsin Department of Natural Resources	Active	5	$12,741	$12,741	This project is a two-pronged approach to broadly engage stakeholders and target specific shoreline owners on walleye habitat protection and rehabilitation efforts. A short, engaging video SHOWING how to protect walleye habitat will be created that can be used for broad distribution among key user groups (including anglers, lake associations, and conservation groups). This video will be accessible and easy to share in a digital format, allowing us to reach a wide audience. A complimentary and more targeted approach will involve sending materials including the video and site-specific walleye habitat information directly to shoreline owners along key walleye spawning shorelines that will be identified by biologists on a select set of lakes. This effort will educate and engage private shoreline owners who make critical shoreline habitat decisions that can harm, or benefit, walleye. In addition to increasing likelihood of habitat protection, developing relationships with landowners is expected to accelerate shoreline rehabilitation efforts.

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Evaluating fish community response to coarse wood additions across gradients of shoreline development and lake trophic status in Lake Namekagon, WI	2025	Yes	Yes	No	WI	no	Midwest Glacial Lakes Partnership	Northland College	-	7	$75,887	-	Coarse wood provides critical habitat for fish communities in lake ecosystems. Shoreline landowners at Lake Namekagon, a trophy Muskie lake in Northwest Wisconsin with a robust sport fishery and walleye stocking program, are eager to increase the coarse wood habitat. In partnership with the Namekagon Lake Association (NLA), 25 property owners have been approved for trees to be added to the nearshore habitat of the lake. The within-lake variation in trophic state and shoreline development offers a unique opportunity to evaluate the response of fish communities to wood debris additions across human development and ecological gradients. We seek to evaluate the efficacy of tree drops and “fish sticks” relative to shoreline development and lake trophic status, working in partnership with the NLA, Wisconsin DNR, US Forest Service, and local landowners. We will quantify the (1) habitat quality of the riparian and littoral habitats where the wood additions occur and (2) fish utilization of the installed habitat. Finally, we will develop a decision support tool to guide future wood additions for shoreline landowners, the lake association, and management agencies. The tool will predict the fish response to tree drops or fish sticks at certain properties relative to the development of the shoreline and trophic status of the lake.
Assessing and reducing nutrient loads entering Thornapple Lake from High Bank Creek, Mud Creek and the Upper Thornapple River watersheds for MGLP Priority Species	2025	Yes	Yes	No	MI	no	Midwest Glacial Lakes Partnership	Barry Conservation District	-	8	$68,186	-	The Thornapple River Watershed is the Grand River's largest subwatershed, draining into Lake Michigan. The Thornapple River watershed is split into two subwatersheds, the Upper and Lower. The Upper Thornapple, Mud Creek, and High Bank Creek watersheds drain a combined 226,945 acres of land into the Thornapple Lake, then continue into the Lower Thornapple River. This project aims to reduce nutrients, including phosphorus, nitrogen, and pathogens such as E. coli, entering Thornapple Lake in Hastings, MI, and the contributing watersheds in Barry and Eaton County. We will work to identify the likely sources through water quality monitoring. The project will target agricultural producers and landowners through outreach and education and identifying best management practices (BMPs) in these watersheds. Workshops will be held for farmers and riparian landowners to encourage BMPs and identify potential and/or critical sites. We will work with local MAEAP, FSA, and NRCS staff to identify and promote agricultural BMPs. We will remove two seawalls and restore two or more natural shorelines as demonstration sites which will reduce nutrient runoff in the watershed. This project will assess current nutrient loads entering Thornapple Lake and the sources and severity, develop a nutrient budget, and recommend specific BMPs for implementation and provide shoreline protection through outreach, education, and the installation of two or more demonstration sites in the target watersheds.

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FY25 Coordination of the Ohio River Basin Fish Habitat Partnership	2025	Yes	Yes	Yes	Multiple	no	Ohio River Basin Fish Habitat Partnership	American Rivers	Active	1	$124,412	$124,412	American Rivers respectfully requests a $125,000 grant to provide coordination of the Ohio River Basin Fish Habitat Partnership (ORBFHP). With these funds, American Rivers will ensure that all activities are in alignment with the ORBFHP's mission, vision, and goals, deliver Partnership coordination services on a day-to-day basis and collaborate with ORBFHP partners and committees, as well as the National Fish Habitat Partnership.
Cloverlick Creek Dam Removal and Stream Restoration	2025	Yes	Yes	Yes	OH	no	Ohio River Basin Fish Habitat Partnership	Clermont County Soil and Water Conservation District	Active	2	$100,000	$79,000	Clermont SWCD seeks to remove a low-head dam along Cloverlick Creek-East Fork Little Miami River watershed (HUC-12: 050902021202), a major tributary to the USACE William H. Harsha Reservoir. Cloverlick has a 42 mi2 drainage area and the dam removal will reconnect 86 miles in the sub-watershed. Improved stream connectivity and habitat will benefit biological communities.
Allegheny River Side Channel Restoration Phase 3, Venango County, PA	2025	Yes	Yes	No	PA	no	Ohio River Basin Fish Habitat Partnership	American Rivers	-	3	$35,000	-	The proposed project seeks to complete Phase 3 final construction of the Allegheny River Side Channel Restoration to reconnect important diverse side channel habitat for ESA Northern Riffleshell and Clubshell, their fish host species and other river resident species. Activities include removal of an earthen berm dam together with channel and riparian restoration which builds on previous success of 2 earlier phases of restoration. Other project benefits include improved public safety, reduced flood risk, and expanded recreation and angling access.
Eel River Fish Community Assessment	2025	Yes	Yes	No	IN	no	Ohio River Basin Fish Habitat Partnership	Ecosystems Connections Institute	-	4	$54,722	-	Eel River of northern Indiana is a priority basin for the ORBFHP with a watershed of 827 mi2. Since 2012 six low head dams have been removed and a prototype fish passageway was installed. The last two dams at RM 1 were removed in November 2021 and fully reconnected the Eel River with the Wabash River. There are 48 fish species below the last two dams removed not previously found above the dams. With existing assessment infrastructure, this is a novel chance to continue assessing the recolonization of fish in a fully reconnected system. To date 17 new fish species have been documented in the Eel.
Whitewater River Fish Habitat Restoration Project Phase II	2025	Yes	Yes	No	OH	no	Ohio River Basin Fish Habitat Partnership	Ohio River Foundation	-	5	$10,000	-	This project for the Whitewater River is phase II of an ORFBHP project funded and implemented in spring 2024. It will continue restoration of the river that has a mix of exceptional and degraded habitat. Sedimentation is a major problem for the river. Along with volunteers, we will install 2,200 native trees and forbs along previously planted (1H2024) 3.3 miles to reduce slump and erosion and create fish habitat. These plantings will include a combination of native nuts, young trees, and bare root saplings planted within the second terrace of the streambank, above 2024 live stake installations.

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PLCI Coordination & Operational Support (FY 25)	2025	Yes	Yes	Yes	Multiple	no	Pacific Lamprey Conservation Initiative	Pacific States Marine Fisheries Commission	Active	1	$125,000	$126,000	This project consists of coordination and operational support for PLCI's various activities and initiatives in support of its goal to achieve long-term persistence of Pacific Lamprey and their habitats, and support their traditional tribal cultural use throughout their historical range. Activities include but are not limited to coordinating and participating in PLCI's various committees and workgroups (Policy Committee, Conservation Team, Steering Committee, Lamprey Technical Workgroup (and its subgroups), and Regional Management Units etc.), planning and implementation of in-person and virtual events (Lamprey Information Exchanges, workshops/trainings etc.) and outreach in support of partnership, and coordination of annual funding opportunities. This project targets Pacific Lamprey (Entosphenus tridentatus) and other native lampreys along the U.S. West Coast representing FHP priority species and Species of Greatest Conservation Needs, and addresses all of PLCI's objectives in support of the overarching mission.
Enhancing Off-Channel Habitat for Pacific Lamprey in Salmon Creek	2025	Yes	Yes	Yes	WA	no	Pacific Lamprey Conservation Initiative	Cascade Forest Conservancy	Active	2	$37,280	$37,280	This project will improve habitat quality and extend potential habitat distribution for the Pacific lamprey in Salmon Creek, an undammed waterway flowing west from Mount St. Helens into the Cowlitz River, then the Columbia River, and ultimately into the Pacific Ocean. Introducing instream wood through beaver dam analogs (BDAs) and post-assisted log structures (PALS) restores natural stream and riparian processes, enhancing water retention, improving water quality, mitigating late-season drought, and establishing favorable spawning and rearing habitat. The project's outcomes are expected to enhance or expand quality habitat for Pacific lamprey populations in Salmon Creek and contribute valuable knowledge to the broader understanding of Pacific lamprey in the Lower Columbia Basin.

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Lower Sutton Creek Aquatic Organism Passage Project	2025	Yes	Yes	Yes	OR	no	Pacific Lamprey Conservation Initiative	Nestucca Neskowin and Sand Lake Watersheds Council	Active	3	$15,000	$15,000	This project will replace two undersized and poorly functioning culverts (one is failed) in lower Sutton Creek in Neskowin, Oregon, with two concrete box culvert structures that include full stream simulation. The existing culverts are partial barriers to passage of ESA listed Oregon coastal coho salmon, winter steelhead, coastal cutthroat trout, and Pacific lamprey. Lamprey have been observed in Sutton Creek (anecdotally) and biologists are eager to confirm their presence and update distribution maps (ODFW's "Oregon Fish Habitat Distribution and Barriers," and "Pacific Lamprey Known Observations and Distribution" map). The project reach is just upstream of a known current lamprey distribution zone in Neskowin Creek. The project will provide full volitional passage for these species, improve natural stream function, improve the passage of high flows in a residential neighborhood in through which the stream flows. This project will complement one being implemented in 2024 to replace 2 similar culverts further upstream on Sutton Creek, in this case with AOP-designed concrete bridges. Passage improvement is identified as an important need for lamprey conservation in the 2022 Regional Implementation Plan for the Oregon Coast Regional Management Unit's North Coast Sub-Region, and this project is included in the restoration actions listed in the plan under the rubric of Salmon SuperHwy Project (the Council is a Salmon SuperHwy partner organization).
Epigenetics of Pacific Lamprey Sex and Maturation	2025	Yes	Yes	Yes	ID	no	Pacific Lamprey Conservation Initiative	University of Idaho	Active	4	$99,930	$99,930	This project will use samples generated from a related project and would involve collaboration between the University of Idaho, Washington State University, and the Columbia River Inter-Tribal Fish Commission (along with their member tribes). This proposal outlines work that would employ a novel molecular-based approach (epigenetic analysis) to identify the genetic basis of adult Pacific lamprey sex and maturation status (early or late maturing). Using the markers identified in the epigenetic analysis, the ultimate goal would be to develop a non-lethal, genetic methodology for determining adult Pacific lamprey sex and maturation status using qRT-PCR. The resulting assay will help to inform management practices and aid in Pacific lamprey conservation efforts throughout their entire distribution.

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Enhancing the Lamprey Knowledge Base in the Stillaguamish and Snohomish River Basins	2025	Yes	Yes	Yes	WA	no	Pacific Lamprey Conservation Initiative	Washington Department of Fish and Wildlife	Active	5	$109,356	$27,500	The primary project objective is to locate, geo-reference, tally and measure lamprey redds. In addition, this grant will allow spawning ground surveys targeting lamprey to be continued through July (one month past the current funding allowance for steelhead surveys) to capture peak lamprey spawn timing. The second part of this proposal is to collect eDNA immediately prior to the spawning ground surveys and in a wider spatial and temporal range throughout each watershed and year. The third component of this proposal is to provide lamprey education to the public at WDFW outreach events, including displays at festivals and sportsman shows. Lamprey identification materials and fact sheets will be obtained from currently available stock and provided to the public. WDFW public communications staff will provide social media outreach on lampreys to enhance public awareness and knowledge.
GYWC Pacific Lamprey eDNA Sampling	2025	Yes	Yes	No	OR	no	Pacific Lamprey Conservation Initiative	Greater Yamhill Watershed Council	-	6	$9,550	-	Project will include eDNA sampling at 60 sites within the Greater Yamhill Watershed as noted on the attached map. Analysis of these samples will determine whether Pacific Lamprey populations are present. If not, this will inform the need and prioritization of future projects that will improve fish passage and aquatic/riparian habitat conditions within the watershed. The 2022 Willamette RMU RIP notes that there is information lacking in the Yamhill basin regarding Pacific Lamprey. This project is meant to contribute to the knowledge base. Results will be shared with the public during open council meetings, workshops in the community, and with partner organizations.
Pacific Lamprey Assessment on the Lower Stanislaus River	2025	Yes	Yes	No	CA	no	Pacific Lamprey Conservation Initiative	California Department of Fish and Wildlife	-	7	$134,395	-	This project will identify and quantify the amount of potentially suitable ammocete (level stage of lamprey) habitat in the Stanislaus River. The results of the analysis would be then used in conjunction with electrofishing to develop an ammocete population index for the Stanislaus River. This project will start with a desktop temperature analysis to determine the potentially suitable ammocete habitat based on thermal history using existing thermograph and river gauge data. Then suitable in-river habitat features (e.g. mud, silt substrate) would be identified and mapped using a GPS. In years two and three, these identified habitats will be sampled with a backpack electrofisher. The data will be used to develop an ammocete population index based on the number of individuals captured and the amount of available habitat. This is a basic research project needed to fill data gaps regarding the distribution and habitat utilization of ammocetes and can be used to begin to determine ammocete sensitivity to temperature.

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Building on Proven Environmental RNA Achievements: Advancing Gene Discovery and Field Validation in Pacific Lamprey	2025	Yes	Yes	No	WA	no	Pacific Lamprey Conservation Initiative	Cramer Fish Sciences	-	8	$98,541	-	Our experiment will be conducted across three strategic locations to validate the effectiveness of our newly discovered eRNA assays. 1. Prosser Hatchery: Situated within the Lower Yakima subbasin (HUC #17030003), the hatchery will serve as the site for our controlled hatchery experiments. Here, we aim to implement and assess the efficiency of our eRNA assays in a regulated environment. 2. Willamette Falls, Oregon: Located at river kilometer (rkm) 41.84, Willamette Falls will be our key site for validating the assays designed to detect adult Pacific Lamprey. This natural landmark within the Willamette River's course offers a unique setting to study the adult stage of Lamprey in their migratory phase, contributing vital data to our research. 3. Wapato Canal, Yakima River: Positioned at rkm 176.3, the Wapato Canal area of the Yakima River will be crucial for validating larval eRNA markers. This location, also within the Lower Yakima subbasin, provides an ideal habitat for studying the early life stages of Pacific Lamprey.
PMEP Operational Support	2025	Yes	Yes	Yes	CA	no	Pacific Marine and Estuarine Fish Habitat Partnership	Pacific States Marine Fisheries Commission	Active	1	$125,000	$126,000	PMEP Operational Support will result in increased collaboration and coordination amongst restoration practitioners, researchers, and resource managers throughout the U.S. West Coast.
Catalina Island Eelgrass Restoration	2025	Yes	Yes	Yes	CA	no	Pacific Marine and Estuarine Fish Habitat Partnership	The Bay Foundation	Active	2	$90,067	$90,067	The Catalina Island Eelgrass Restoration Project will restore critical fish habitat connectivity on Catalina Island by transplanting 60,000 ft2 of Zostera pacifica to a cove that historically supported a robust seagrass bed. The project team will transplant over 4,000 turions, constituting the first transplant of this species on Catalina Island and the largest Z. pacifica transplant to date. Conducting biophysical characterizations, along with time lapse cameras deployments, will bolster conventional monitoring, and help elucidate causative factors of project success. This project will increase the efficacy of open coast eelgrass restoration, providing an opportunity for scalable 'blue carbon' habitat resiliency.
Assessing Seagrass Restoration Effectiveness from the Perspective of Fish Communities	2025	Yes	Yes	Yes	OR	no	Pacific Marine and Estuarine Fish Habitat Partnership	Oregon State University	Active	3	$97,193	$89,650	Our goal is to conduct a retrospective assessment of seagrass restoration efforts made over the past several decades. We will evaluate variety, abundance, and performance metrics (growth, survival) of species at seagrass restoration sites in two Oregon estuaries and compare those metrics to natural seagrass and nearshore nursery habitats to assess restoration effectiveness. Monthly comparisons of fish and invertebrate assemblages between natural and restored seagrass beds and nearshore counterparts for Coos Bay and Yaquina Bay will allow us to assess habitat use for several focal fishery species and define expectations and timelines for recovery of nursery habitat.

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Adelma Beach Restoration	2025	Yes	Yes	No	WA	no	Pacific Marine and Estuarine Fish Habitat Partnership	Northwest Straits Marine Conservation Foundation	-	4	$88,572	-	The project will restore feeder bluff processes via removal of 530SF of wooden bulkhead and two cabins supported by the structure. The structures span 126LF of shoreline and sit waterward of the bank 5 to 10 ft below MHHW and 4 to 5 ft above beach grade. Invasive vegetation will be removed and replaced with native plants restoring sediment transport processes and habitat connectivity. The project addresses prey species availability through restoration of coastal processes and forage fish spawning habitats. Failed armor is burying surf smelt and sand lance spawning habitat, two critical prey species of salmonids and marine birds.
Eelgrass status in Coos Bay and South Slough	2025	Yes	Yes	No	OR	no	Pacific Marine and Estuarine Fish Habitat Partnership	University of Oregon	-	5	$74,814	-	This eelgrass mapping project will assess critical fish habitat within the Coos Bay estuary. Eelgrass beds in South Slough, a sub-estuary of Coos Bay, declined rapidly between 2015-2017 and have only partially recovered; this project will provide accurate maps of eelgrass extent and condition to inform conservation and future restoration efforts. Targeted drone mapping using a multi-spectral sensor will quantify macroalgae presence in eelgrass beds, a possible stressor contributing to habitat degradation. This habitat assessment leverages on-going regional efforts to determine how fish populations use eelgrass habitats under long-term environmental change and identify possible refugia for sensitive fish populations.
Sutton Creek-Proposal Rock Fish Passage Improvement Project	2025	Yes	Yes	No	OR	no	Pacific Marine and Estuarine Fish Habitat Partnership	Nestucca Neskowin and Sand Lake Watersheds Council	-	6	$94,050	-	The Sutton Creek-Proposal Rock Fish Passage Improvement Project will restore full volitional fish passage to 1.6 miles of habitat in Sutton Creek including 0.8 miles of ESA listed Oregon Coastal coho salmon habitat; other species that will benefit include winter steelhead, coastal cutthroat trout, and Pacific lamprey. Project sponsor will replace a failing and greatly undersized 36-inch culvert that functions as a passage and flow barrier with an appropriately sized Aquatic Organism Passage (AOP) concrete box culvert to restore passage, full tidal connectivity, and reduce flood risk for residents of the Proposal Rock Neighborhood.
Dewey Beach Nearshore Restoration Project	2025	Yes	Yes	No	WA	no	Pacific Marine and Estuarine Fish Habitat Partnership	Northwest Straits Marine Conservation Foundation	-	7	$82,710	-	The project will restore nearshore physical and biological processes and functions via the removal of 240LF of concrete bulkhead across three parcels. A small cabin will be relocated upland and a drain field will be relocated landward of the home. The project will remove invasive vegetation and re-slope with a native plant riparian community to restore sediment transport processes and improve habitat connectivity. The project seeks to address prey species availability through restoration of coastal processes and forage fish spawning habitats. Failing armor is burying potential surf smelt spawning habitat, a critical prey species for salmonids and marine birds.

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Battle Point Smith Shoreline Armor Removal & Riparian Restoration	2025	Yes	Yes	No	WA	no	Pacific Marine and Estuarine Fish Habitat Partnership	Mid Sound Fisheries Enhancement Group	-	8	$50,000	-	The Battle Point Smith Nearshore Armor Removal & Riparian Restoration project will remove hard armoring from 100 linear feet of Puget Sound shoreline. Sediment transport, forage fish spawning and juvenile Chinook rearing habitat will be restored, new salt tolerant backshore shrubs will border the new pocket beach, and a native marine riparian corridor serving as a pervious pollinator and detritus input pathway will replace 3,240 SF of concrete sport court. The project has been identified as meeting priorities of the Puget Sound Partnership and the East Kitsap Watershed Chapter.
Guemes Island Nearshore Armor Removal and Restoration	2025	Yes	Yes	No	WA	no	Pacific Marine and Estuarine Fish Habitat Partnership	Northwest Straits Marine Conservation Foundation	-	9	$55,473	-	The project will restore coastal and biological processes and functions via the removal of 118 LF of riprap and debris and addition of a native plant riparian community to restore sediment transport processes and improve habitat connectivity. The project seeks to address prey species availability through restoration of coastal processes and forage fish spawning habitats. Failed and unnecessary armor is burying spawning habitat of surf smelt and sand lance, two critical prey species for salmonids and marine birds.
Reservoir Fisheries Habitat Partnership Operations (FY 25)	2025	Yes	Yes	Yes	Multiple	no	Reservoir Fisheries Habitat Partnership	Reservoir Fisheries Habitat Partnership	Active	1	$95,000	$95,000	The Reservoir Fisheries Habitat Partnership was established in 2010. Our goal is to promote the protection, restoration, and enhancement of habitat for fish and other aquatic species in reservoir systems. We are committed to integrating watershed conservation, in-reservoir management, and the management of downstream flows to attain more holistic and coherent strategies for addressing aquatic habitat impairment issues in reservoir systems. In addition, we created The Friends of Reservoirs Foundation [a 501(c) (3) corporation] in August 2010 to provide a mechanism to procure non-governmental funding for reservoir fisheries habitat restoration efforts. Reservoirs are inextricable parts of our natural landscapes. Constructed to meet a variety of human needs, reservoirs impact almost every major river system in the United States, affecting to various degrees habitat for fish and other aquatic species. Conservation of reservoir systems is essential to maintaining the quality of life for the American people. Reservoirs provide essential infrastructure services, from storage and delivery of water to generation of power to the reduction of flood risk in downstream communities. Reservoirs are focal points of recreation for tens of millions of Americans, from anglers to birdwatchers, and they generate tens of billions of dollars for local economies and national recreational industries.

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Blue Marsh Lake Shoreline Project	2025	Yes	Yes	Yes	OH	no	Reservoir Fisheries Habitat Partnership	Berks County Conservation District	Active	2	$75,000	$75,000	The Berks County Conservation District in partnership with the PA Fish & Boat Commission and US Army Corps of Engineers proposes to address severe shoreline erosion caused by boat wake and wind wave action near a popular boat launch on Blue Marsh Lake. Project partners plan to install 600 feet of saw-toothed deflectors, increase complex littoral zone cover, and provide spawning and ambush habitat for multiple fish species. Partners will also address a lack of quality spawning habitat for panfish and other species at the 5-foot winter draw down contour using concrete and rock rubble reefs.
DeGray Lake Fisheries Revegetation	2025	Yes	Yes	No	AR	no	Reservoir Fisheries Habitat Partnership	Arkansas Game and Fish Commission	-	3	$35,000	-	DeGray lake is a high use reservoir consisting of 13,800 surface acres and is managed as a flood risk reservoir that provides hydropower, water supply, and recreation. The fluctuating hydrology and sustained periods of high water on DeGray Lake is detrimental to communities of submerged aquatic vegetation (SAV) and limits the availability of quality fisheries habitat. The goal of this project is to support DeGray Lake fisheries by installing a combination of artificial habitat structures and native SAV that complement the fluctuating hydrology of DeGray Lake.
Enhancing Spawning Habitat at Lake Ouachita	2025	Yes	Yes	No	AR	no	Reservoir Fisheries Habitat Partnership	Army Corps of Engineers	-	4	$15,000	-	Lake Ouachita, a 40,000-acre reservoir in Arkansas, is renowned for its diverse fish species and recreational opportunities. Our project aims to address the habitat degradation that has led to a decline in the spawning success of bream, a member of the sunfish family, and foundational species for the lake's ecological balance and recreational fishing industry. This proposal seeks funding to construct 45 gravel bream bed structures near Joplin Recreation area, enhancing spawning habitats to bolster the bream population and, subsequently, the populations of predator species such as largemouth bass and crappie.
J. Strom Thurmond Lake - Aquatic Vegetation Habitat Establishment	2025	Yes	Yes	No	SC	no	Reservoir Fisheries Habitat Partnership	Army Corps of Engineers	-	5	$10,044	-	Project partners will establish emergent and submersed aquatic vegetation to provide long-term stabilization of soils and protective nursery/feeding areas for Largemouth Bass (Micropterus salmonids) and other species at twenty locations in J. Strom Thurmond Lake. Vegetation establishment will include emergent Water willow (Justicia americana) and submersed Eelgrass (Vallisineria americana). Submersed plants will be protected in exclosures to allow time to establish founder colonies. Emergent plants will be set in shallow water adjacent to each exclosure.

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South Holston Reservoir Habitat Enhancement	2025	Yes	Yes	No	VA	no	Reservoir Fisheries Habitat Partnership	Virginia Department of Wildlife Resources	-	6	$74,850	-	This project aims to improve the available shoreline habitat at various sites across the Virginia portion of South Holston Reservoir. Additional shoreline habitat for both juvenile and adult life stages of sportfish and associated forage species will be created utilizing artificial habitat structures. The primary strategy will be to construct and install concrete reef balls on shallow flats and other areas currently devoid of complex aquatic habitat. The reef balls will be enhanced with hard and softwood material and will be supplemented with a variety of other artificial habitat structures.
Cochiti Lake Aquatic Habitat Enhancement Project -3	2025	Yes	Yes	Yes	NM	yes	Reservoir Fisheries Habitat Partnership	Cochiti Pueblo and Sun Country Outdoors	Active	7	$40,000	$40,000	Phase 3 of the project shall fully implement greenhouse modifications, aquatic and riparian plant nursery upgrades and re-vegetation efforts led by the Cochiti Pueblo in partnership with Sun Country Outdoors and the US Army Corps of Engineers. Major high-water events prevented plant restoration efforts in 2023-2024 but apparently eliminated the Eurasian Water-milfoil infestation. A concentrated effort is needed to establish a sustainable capability and commitment to restoring native aquatic plants and robust riparian plants. The project will improve capabilities at the Cochiti Pueblo fish hatchery and demonstrate plant propagation through aquaculture and supply native plants.
Lake Keomah Fish Habitat Improvement	2025	Yes	Yes	Yes	IO	no	Reservoir Fisheries Habitat Partnership	Iowa DNR	Active	8	$75,000	$75,000	Lake Keomah is a 78-acre public lake in Iowa's first state park. Much like other reservoirs in the Central Plains ecoregion, the lake suffers from poor water quality and is designated as impaired for high levels of bacteria, excessive algae, and periodic low concentrations of dissolved oxygen. These challenges derive from a long history of sedimentation and eutrophication, with restoration opportunities available on both state-managed land and private land in the watershed. As part of a larger, watershed-level and park-level restoration, this fish habitat improvement project will focus on re-establishing in-lake structure for the most popular recreational species and expanding angler access.
Truman Lake Habitat Project	2025	Yes	Yes	No	MO	no	Reservoir Fisheries Habitat Partnership	H2Ozarks	-	9	$75,000	-	The Truman Lake Habitat Project involves deploying natural fish habitat structures (i.e., primarily anchored cedar trees) throughout Truman Lake utilizing a habitat barge. The habitat barge is equipped with a hydraulic lift, allowing staff to strategically place clusters of cedar trees, enhancing fish habitat. Cedar trees will be sourced from public land surrounding the lake, benefiting terrestrial habitat, and will be anchored with concrete blocks. Following completion, we aim to promote our efforts to the public and monitor angling use and condition of these habitat structures.

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Mark Twain Lake Fisheries Habitat Development Project	2025	Yes	Yes	Yes	MO	no	Reservoir Fisheries Habitat Partnership	Mark Twain Lake Friends of Recreation and Environmental Stewardship (FOREST) Council	Active	10	$20,000	$20,000	Mark Twain Lake has sustained a strong and viable fishery. Its natural maturation process though has yielded a decline in structural underwater habitat. The topography of the reservoir also presents limited shoreline access contributing to an environment not proactive to the pursuit of recreational angling. This proposal will realize three distinct goals that will address the loss of habitat through the placement of two forms of artificial vertical structure, the development of littoral zone habitat supporting recruitment and retention of native game fish species and creating appealing shoreline access to the management unit encouraging increased recreational angling opportunities.
Kentucky Reservoir Habitat Improvement Project	2025	Yes	Yes	No	TN	no	Reservoir Fisheries Habitat Partnership	Tennessee Wildlife Resources Agency	-	11	$57,589	-	This project focuses on enhancing spawning and sanctuary habitat for Largemouth Bass in Kentucky Reservoir. Kentucky Reservoir has been a premier bass fishery for decades, hosting multiple Bassmaster Elite series events and attracting anglers from across the country. Unfortunately, Largemouth Bass numbers and electrofishing catch rates have declined since 2010, possibly due to variability in recruitment, which has been attributed to the effects of reservoir aging. Our goal will be to select embayment’s with historically high recruitment and provide multiple artificial spawning beds, encircled by sanctuary habitat, to improve spawning success, recruitment, and angler catch rates in Kentucky R.
SEAKFHP FY25 Coordination and Operational Support	2025	Yes	Yes	Yes	AK	No	Southeast Alaska Fish Habitat Partnership	Trout Unlimited	Active	1	$125,000	$126,000	This project funds the operations and coordination services for the Southeast Alaska Fish Habitat Partnership (SEAKFHP). SEAKFHP provides a variety of coordination and facilitation services to partner organizations as well as other natural resource managers and interested stakeholders throughout Southeast Alaska. These services provide for the maintenance of the partnership's governance and committee structures, keeps partners engaged, facilitates science, education and outreach actions, allows for participation with NFHP Board requests and associated committees, and executes the solicitation of partner project proposals eligible for NFHP related funding opportunities. Partnership coordination is key in providing services to partner members and with continued support through FY25 NFHP operational funding these services will remain stable.

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Freshwater temperature monitoring to inform restoration and conservation in Southeast Alaska	2025	Yes	Yes	Yes	AK	No	Southeast Alaska Fish Habitat Partnership	Takshanuk Watershed Council	Active	2	$64,891	$64,891	The Southeast Alaska Freshwater Temperature Monitoring Network coalesced in 2016 in response to a need for more widespread and coordinated long-term environmental change monitoring in southeast Alaska's salmon streams. This project will maintain the Network and advance its utility for protecting salmon habitat by 1.) expanding monitoring to include subsistence sockeye lakes, and snapshot thermal imagery to identify small-scale thermal refugia; 2.) sharing stream temperature predictions under long-term environmental changes scenarios in the regional restoration prioritization mapper and providing an interactive tool for; 3.) updating the regional strategic plan based on findings from recent analyses to inform future monitoring needs; and 4.) continuing coordination and equipment/technical support for monitoring organizations.
Supporting Tribal Stewardship of Salmon Watersheds near Ketchikan: Fish Habitat Assessment and Restoration	2025	Yes	Yes	Yes	AK	yes	Southeast Alaska Fish Habitat Partnership	Ketchikan Indian Community	Active	3	$100,000	$66,000	Old-growth logging and road building has adversely impacted salmonid habitat, including steelhead and Pacific salmon habitat, in several watersheds near Ketchikan. Through this project, the Southeast Alaska Watershed Coalition (SAWC) will engage with the Ketchikan Indian Community (KIC) and agency partners (US Forest Service and US Fish and Wildlife Service) to continue ongoing watershed assessments, restoration planning, and project implementation in the Whipple Creek, Ward Creek, and White River (WWW) watersheds on Revillagigedo Island.
Restoring Salmon and Fish Habitat on Kootznoowoo (Admiralty Island) with Angoon Work Crew	2025	Yes	Yes	Yes	AK	yes	Southeast Alaska Fish Habitat Partnership	Kootznoowoo, Inc.	Active	4	$75,000	$65,000	The Kootznoowoo Inc., the Southeast Alaska Watershed Coalition (SAWC), and US Forest Service (FS) are partnering to restore habitat for coho salmon, trout, and char in Cube Cove Area in the Admiralty National Monument, Southeast Alaska. This project will restore fish habitat by constructing log jams in the channel and enhance riparian forest to accelerate recovery of old-growth conditions, while at the same time building an important partnership between agency and community interests that will foster watershed stewardship. This proposal will build on the broader Cube Cove restoration project by enabling Kootznoowoo to run a tribal work crew that will conduct stream restoration and riparian forest enhancement.

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Nearshore Initiative: Advancing Coastal Habitat Assessment and Conservation in Southeast Alaska	2025	Yes	Yes	No	AK	No	Southeast Alaska Fish Habitat Partnership	Southeast Alaska Watershed Coalition	-	5	$44,990	-	Southeast Alaska has over 18,000 miles of shoreline that provides critical habitat for many economically and ecologically important fish species. These productive nearshore habitats are being affected by ongoing and emerging issues, such as development, invasive species, long-term environmental change and mariculture. In the absence of a Coastal Zone Management Program or similar structure, alterations to and degradation of nearshore habitat are rarely assessed in a wider ecological context. This project will build regional capacity for nearshore habitat assessment, monitoring, and data sharing through an educational workshop that connects agency, tribal, nonprofit, and private sector groups interested in understanding and conserving nearshore habitats with practitioners that have nearshore expertise; and by updating the SEAKFHP's Coastal Conservation Strategy.
Strategic Conservation Planning in Southeast Alaska	2025	Yes	Yes	No	AK	no	Southeast Alaska Fish Habitat Partnership	Southeast Alaska Land Trust	-	6	$19,525	-	Southeast Alaska Land Trust (SEALT) is dedicated to protecting Southeast Alaska's natural and cultural open spaces amidst increasing development pressures and the looming impacts of long-term environmental change. With over 70,000 residents and 1.5 million annual visitors, the region's pristine ecosystems, including wetlands, forests, and salmon habitat, face significant threats. A strategic conservation plan is deemed essential for SEALT to effectively prioritize conservation projects across its expansive service area of 22 million acres. This project aims to address future long-term environmental change and anthropogenic impacts, safeguarding critical habitats for wildlife and sustaining the region's seafood industry.
Lisianski River Fish and Habitat Monitoring Partnership	2025	Yes	Yes	No	AK	no	Southeast Alaska Fish Habitat Partnership	Sitka Conservation Society	-	7	$13,750	-	The community of Pelican on the North end of Chichagof Island, in southeast Alaska, is a small rural community that is highly dependent on fisheries resources. This project would create and implement a citizen monitoring program of the important salmon runs on rivers and systems that have a high level of subsistence use importance—especially the Coho runs on the Lisianski River. There is a need for monitoring in the area because its remote location has meant that neither ADFG nor Forest Service have a long-term monitoring presence in the area. As fishing pressure has grown by visiting charter guides and self-guided boats, there is community concern regarding pressure on local systems.
SARP Operational Funding FY 2025	2025	Yes	Yes	Yes	Multiple	no	Southeast Aquatic Resources Partnership	Southeastern Association of Fish and Wildlife Agencies	Active	1	$125,000	$125,000	This will provide operational funding to SARP to support administrative activities, connectivity projects, outreach, planning, and travel to meetings.

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Aquatic Connectivity and Habitat Restoration in the Middle New River Watershed, Southwest Virginia	2025	Yes	Yes	Yes	VA	no	Southeast Aquatic Resources Partnership	Canaan Valley Institute	Active	2	$50,000	$50,000	The project will open 7-miles of Wolf and Laurel Creek in the Middle New River watershed of Southwest Virginia (SWVA). The project will improve connectivity and habitat, benefiting aquatic and riparian species, and increasing native variety while combating accelerated erosion and sedimentation.
Restoration of Submersed Aquatic Vegetation in the St. Johns River, Florida	2025	Yes	Yes	Yes	FL	no	Southeast Aquatic Resources Partnership	Fish and Wildlife Foundation of Florida	Active	3	$100,000	$100,000	This project will restore submersed aquatic vegetation in the St. John River after hurricanes significantly reduced coverage and biomass. The project will significantly boost submersed aquatic habitat and forage for many species of fish and wildlife, including species of greatest conservation need.
Southwest Alaska Partnership Coordination FY 25	2025	Yes	Yes	Yes	AK	no	Southwest Alaska Salmon Habitat Partnership	Bristol Bay Heritage Land Trust	Active	1	$125,000	$125,000	The salmon and other freshwater fish of Bristol Bay will benefit from a strong regional land trust and a fully functioning FHP. Evidence of such benefit is the creation of the Bristol Bay Fly Fishing & Guide Academy by BBHLT, the coordination of the annual Southwest Alaska Interagency Meeting and the successful negotiation of a conservation easement deal with Pedro Bay Native Corporation in 2021 to protect 44,000 acres of habitat critical for the spawning and rearing of sockeye salmon that return to Lake Iliamna. BBHLT is now engaged in a fundraising campaign, with partner The Conservation Fund, to raise $18.3 million dollars by December of 2022 to purchase the easement.
Increasing local resident capacity support in USFWS assessment projects	2025	Yes	Yes	Yes	AK	no	Southwest Alaska Salmon Habitat Partnership	U.S. Fish and Wildlife Service	Active	2	$25,000	$25,000	Support an existing project on the Salmon River weir with local village resident participation as the first priority. Project may also support as a second priority future assessment projects in the Goodnews River and Russell Creek near the Salmon River
Modeling Early Life Stage Salmon Developmental Rates Under Future Environmental Change Scenarios: Phase II – Validation Through In-Situ Monitoring and Laboratory Studies	2025	Yes	Yes	Yes	AK	no	Southwest Alaska Salmon Habitat Partnership	Abt Associates	Active	3	$111,500	$53,800	This project will generate valuable data on incubation conditions and hatch/emergence timing for sockeye in and around Iliamna Lake, AK. Data will be applicable to modeling the impacts of long-term environmental change on developing salmon and aid in determining key spawning sites throughout the Bristol Bay Watershed that provide spawning thermal refugia under future long-term environmental change and should be prioritized for conservation.
Gray Prairie Gray Creek Restoration	2025	Yes	Yes	Yes	OR	no	Western Native Trout Initiative	US Forest Service Ochoco National Forest	Active	1	$3,147	$31,457	Gray Prairie and the downstream reaches of Gray Creek have faced incision of existing stream and meadow systems, impacts from grazing, roads, stream crossings, conifer encroachment, and some more localized impacts. These include disconnection from historic floodplains, the disappearance of historically dense willow thickets, and the extirpation of well-established beaver colonies (due to a lack of hardwoods). Restoration will focus on reconnecting floodplains and functionality of the meadow.

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Western Native Trout Initiative FY25 Operational Support	2025	Yes	Yes	Yes	Multiple	no	Western Native Trout Initiative	Western Native Trout Initiative	Active	1	$85,000	$125,000	The Western Native Trout Initiative (WNTI) serves as a key catalyst for building and maintaining effective conservation partnerships among local, state, and federal partners to catalyze and accelerate the conservation of 21 native trout and char species across 12 western states. Project activities include coordination, facilitation, project development/implementation/administration, grant administration, outreach and education activities and products, social media strategies, professional and public events, and WNTI's 12 state Western Native Trout Challenge.
Dude Creek Habitat Restoration	2025	Yes	Yes	Yes	AZ	no	Western Native Trout Initiative	Arizona Game and Fish Department	Active	2	$33,000	$33,000	Dude Creek has an introduced, but self-sustaining population of Gila trout, native only to Arizona and New Mexico. It is currently one of two streams in Arizona that is open to catch-and-release fishing for Gila trout. Two large and high-intensity fires have heavily impacted Dude Creek. Each fire resulted in significant debris flows and erosion from flooding, which created scouring and destabilization, forming a headcut, which took the stream to bedrock and degraded habitat. In 2020 a two-phase design was implemented to remediate the headcut, and restore the downstream habitat. Phase 1 was implemented, but Phase 2 was delayed due to the discovery of another headcut. After this headcut is addressed, Phase 2 will progress and restore downstream habitat that is dominated by bedrock, and shallow water. This phase will provide an additional 0.5 miles of habitat for Gila trout and invertebrates.
Upper Wallowa River Habitat Enhancement	2025	Yes	Yes	No	OR	no	Western Native Trout Initiative	Wallowa Resources	-	3	$50,000	-	The project area, upstream from Wallowa Lake, is an important spawning and rearing area for salmonid species (including kokanee salmon) and Bull trout. Historically, it was an alluvial fan with multiple and braided channels. However, the natural floodplain along the reach has been degraded by anthropogenic encroachment and development (channelization), thereby reducing habitat quality and quantity. Additionally, channelization of the stream has resulted in bank instability, which has led to flooding events that impact private residence, small businesses and Wallowa Lake State Park properties. This restoration project aims to enhance and restore habitat by 1) increasing the quantity and quality of areas suitable for Bull trout and adult kokanee spawning and rearing, 2) restoring the river floodplain to a more natural geomorphic form and function, increase channel complexity and aquatic habitat variety, 3) increase floodplain connectivity and frequency of inundation, 4) increase riparian function with site appropriate vegetation, and 5) protect private homes, business and state properties from flood events.

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Fish Passage Restoration on Timber and Rose Creek	2025	Yes	Yes	Yes	WY	no	Western Native Trout Initiative	Wyoming Game and Fish Department	Active	4	$75,000	$75,000	The Greybull River drainage supports the second largest genetically pure Yellowstone Cutthroat Trout (YSC) population in Wyoming and is home to the largest population in the Bighorn/Wind River Basin with seven core conservation populations. The Greybull drainage serves as a metapopulation where YSC, Mountain Whitefish (MWF), and Mountain Sucker (MTS) migrate between the Greybull, Wood River, and tributary streams throughout their life cycle. Enhancing connectivity in the Greybull River drainage is key for long-term resilience of native populations of YSC, MWF and MTS. When implemented, this project will restore upstream passage to over 46 miles of critical habitats within a large and key watershed for YSC and other aquatic organisms. Screening of the diversions will prevent the loss of up to 60,000 YSC per year. This WNTI proposal is to partner in the implementation of the second and final phase of construction, planned for the summer of 2026. During this second phase, full passage will be restored on Timber Creek and Rose Creek by removing 11 barrier structures and restoring passage to 11 miles of stream habitat. These conservation efforts will yield a great deal of resilience to YSC populations in the face of natural and manmade disturbances such as drought, long-term environmental change, floods and wildfire.
Restoration and Safeguarding of California Gold Trout Populations in the South Fork Kern River	2025	Yes	Yes	Yes	CA	no	Western Native Trout Initiative	Trout Unlimited	Active	5	$44,764	$44,764	The protection of California Golden Trout (CAGT) is a high priority for anglers and natural resource managers. Currently, the iconic subspecies is subject to familiar, yet dire threats. Significant numbers of Brown trout, and likely hybrid Rainbow/Golden trout, were detected in the South Fork Kern River (SFKR) between Ramshaw and Tempelton barriers. Decades of conservation work were conducted in this same reach of river from the 1960s-2000s to protect these unique fish. Currently, this reach is unprotected from the harmful impacts off non-native species, including competition for resources, predation, and hybridization with nonnative Rainbow trout. The putative explanation for how the invasion occurred is the connection between the headwaters of Strawberry Creek and an unnamed tributary to the SFKR (hereafter, “the Strawberry Creek connection”). The Strawberry Creek flows into the SFKR approximately 4km downstream of Templeton Barrier, however the unnamed tributary enters the SFKR between Ramshaw and Templeton. Hence, the presumed connection between the two creeks under high flows provides known populations of nonnative trout residing just downstream of the barrier unmitigated access to the “heart” of the CAGT’s range. It is also possible that the Templeton barrier was not completely effective under these flow conditions or that its structural integrity has been compromised.

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Yakima Basin Bull Trout	2025	Yes	Yes	No	OR	no	Western Native Trout Initiative	Mid Columbia Fisheries Enhancement Group	-	6	$53,181	-	MCF proposes an assessment and protection project to expand the work of the Bull Trout Task Force (BTTF). The project will address future needs of Yakima Basin Bull trout and support the proposed rescue, rear, and release program that aims to reintroduce Bull trout into their historical range. The first element of the proposal is to assess the relocation potential and over-wintering habitat capacity of proposed reintroduction areas through temperature monitoring and invasive species surveys. The second assessment element is to perform demographic surveys in streams that have or will undergo restoration projects (the proposed restoration activities in the Yakima Basin include 5 Bull Trout streams over the next 3 years). This will give insights into restoration success and population health, and identify adaptive management needed. The final element focuses on protection by increasing the overall capacity and impact of the BTTF. Increased capacity will allow us to remove more rock dams, run a volunteer program to increase citizen science support, and conduct additional emergency rescues of Bull trout in dewatering streams which will directly increase population health.
East Tensleep Creek Conservation Barrier	2025	Yes	Yes	No	WY	no	Western Native Trout Initiative	Wyoming Game and Fish Department	-	7	$50,000	-	The Bighorn/Wind River Basin is one of four primary geographic management units (GMU) for the conservation of Yellowstone Cutthroat trout (YSC). Yellowstone Cutthroat trout have been extirpated from nearly all historically occupied habitats in the Nowood River drainage, a tributary to the Bighorn River along the west face of the Big Horn Mountains in north central Wyoming. In Wyoming, YSC are a Species of Greatest Conservation Need and currently occupy 9% of their historic range in the Bighorn Mountains. The Nowood River watershed's last remaining endemic population of YSC is in the headwaters of East Tensleep Creek. Nonnative trout have led to a pronounced contraction of YSC distribution in East Tensleep Creek. Removing these nonnative trout populations and preventing their recolonization into the drainage is necessary to prevent YSC extirpation. This project will prevent upstream migrating Brown, Rainbow and Brook trout from invading a YSC population. Our plan is to construct a concrete jumping and velocity barrier to prevent invasive trout from Meadowlark Lake from migrating into East Tensleep Creek. Constructing a conservation fish barrier on East Tensleep Creek 1,100 feet upstream from Meadowlark Lake, combined with removing non-native trout species upstream of the barrier, will allow the existing YSC population to expand and occupy over 18 miles of stream habitat in the watershed.

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Development of monitoring tools to assess Bull Trout life-history expression	2025	Yes	Yes	No	ID	no	Western Native Trout Initiative	US Forest Service Rocky Mountain Research Station	-	8	$49,923	-	Bull Trout (BT), a charr, are native to western North America and listed as threatened under the Endangered Species Act. Their main habitat requirements are often described as the "4cs", cold, clean, complex, and connected, making them especially vulnerable to habitat degradation. Reduced connectivity through the construction of barriers, in particular, has been cited across numerous BT species' assessments as a major hurdle to their recovery. Whether physical (e.g. hydrologic dams) or hydrologic (irrigation diversions) barriers, changing conditions to their physical environment have caused population declines throughout BT's range. Habitat fragmentation and population isolation has not only resulted in increased inbreeding and loss of genetic variety in BT, but also reduced life-history variety. One major limitation has been a lack of standardized tools to delineate BT migratory life-history forms. We propose to compare existing methods for BT life-history identification to standardized protocols for assessing species recovery following restoration. We will employ this approach to assess the recovery success of resident and migratory, endemic and out of basin, BT in two recently restored tributaries (4th of July and Champion Creeks) in the Upper Salmon River (USR).
NFHP Board Support	2025	Yes	Yes	Yes	Multiple	No	National Fish Habitat Partnership Board	NFHP Board & Science and Data Committee	Active	NA	$236,000	$236,000	To meet the requirements and obligations of the ACE Act, the Board requires base funding for: 1) basic Board operations to include both Board travel and meeting costs and Science and Data Committee (SDC) Co-chair travel and SDC meeting costs; 2) NFHP communications and overall program coordination and support; and 3) meeting and staff support for committees and working groups of the National Fish Habitat Partnership.
NFHP Project Tracking System	2025	Yes	Yes	Yes	Multiple	No	National Fish Habitat Partnership Board	Pacific States Marine Fisheries Commission	Active	NA	$87,000	$87,000	Coordination, maintenance, management and hosting of the National Fish Habitat Partnership Project Tracking System.
NFHP National Assessment	2025	Yes	Yes	Yes	Multiple	No	National Fish Habitat Partnership Board	NFHP Science and Data Committee	Active	NA	$267,000	$267,000	The ACE Act requires that a new National Fish Habitat Assessment (Assessment) be completed by 2025 and will provide a portrait of the state of the nation's fish habitat. The Assessment should update the 2015 Assessment, fill in gaps, and include socioeconomic information using national and appropriate FHP datasets. Gaps to be focused on will be hydrology, grazing intensity, and forest product extraction. If feasible within the time available, additional macrohabitat or long-term environmental change modules will be added. It is expected that this project will take 2 years of funding to complete using 1.5 FTEs per year along with additional in-kind assistance from the NFHP community.