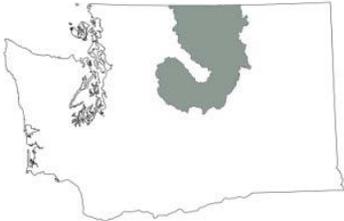
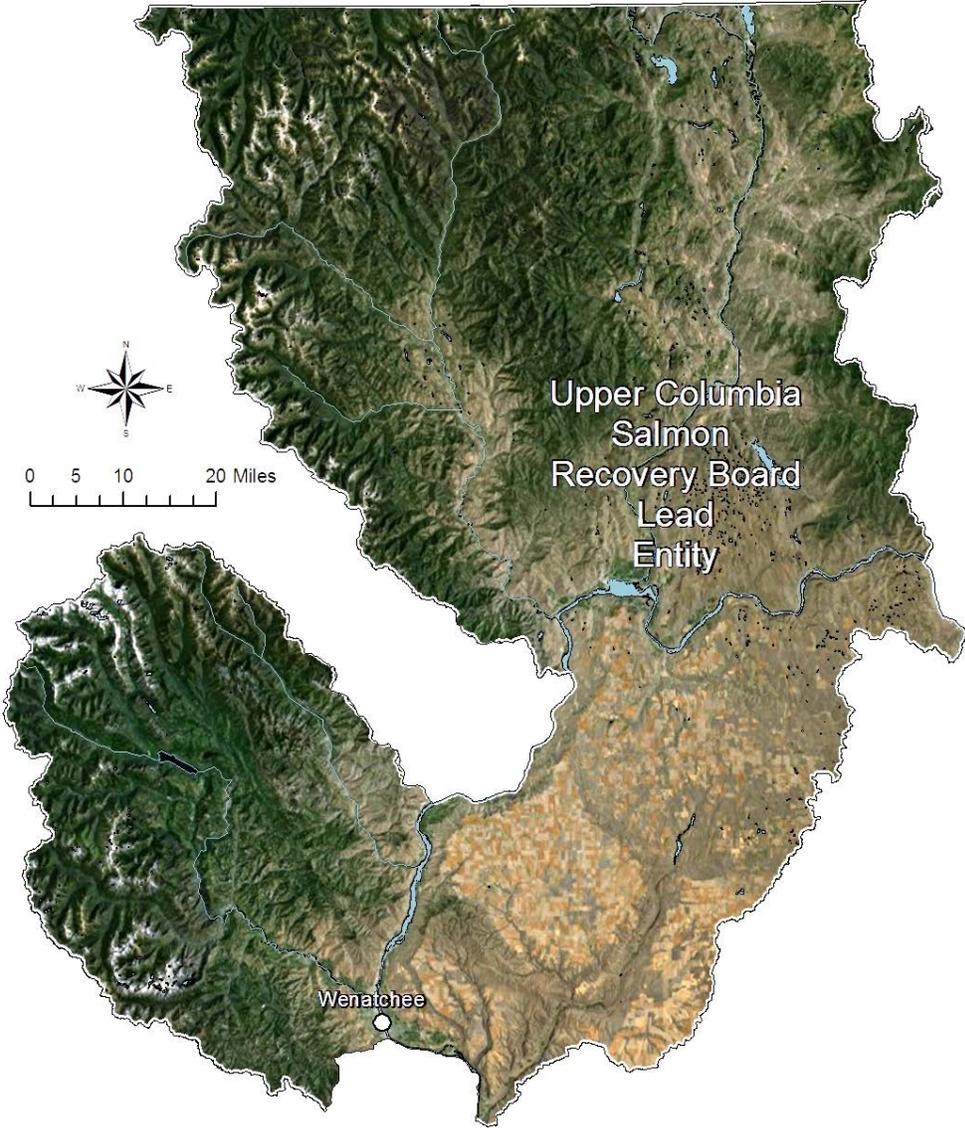


Upper Columbia River Salmon Recovery Region



Upper Columbia Salmon
Recovery Board
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Wenatchee, WA 98801

Executive Director
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Region Overview

Geography

The Upper Columbia River Salmon Recovery Region is comprised of salmon-bearing streams in Chelan, Douglas, and Okanogan Counties.

Water Resource Inventory Areas (WRIA)

Moses Coulee (44), Wenatchee (45), Entiat (46), Methow (48), Okanogan (49), and Foster (50)

Federally Recognized Tribes

Colville Confederated Tribes and the Tribes and Bands of the Yakama Nation

Endangered Species Act Listings

Table 1: Upper Columbia River Salmon Recovery Region Listed Species

Species Listed	Listed As	Date Listed
Upper Columbia River Spring Chinook	Endangered	March 24, 1999
Upper Columbia River Steelhead	Threatened	August 18, 1997

Salmon Recovery Plan

Table 2: Upper Columbia River Salmon Recovery Region Recovery Plan

Recovery Plan	
Regional Organization	Upper Columbia Salmon Recovery Board
Plan Timeframe	10-30 Years
Actions Identified to Implement Plan	296
Estimated Cost	\$734 million over 10 years
Status	Federal government adopted recovery plan for upper Columbia River spring Chinook and steelhead in October 2007.
Implementation Schedule Status	An implementation schedule with timeframes of 3 years, 6 years, 10 years, and beyond, and with more detailed information on recovery plan actions and costs is being used by the Upper Columbia Salmon Recovery Board and its plan implementation partners.
Web Information	Upper Columbia Salmon Recovery Funding Board Web site

Region and Lead Entities

The Upper Columbia Salmon Recovery Board serves as the regional organization and the lead entity.

Regional Area Summary Questions and Responses

Describe the process and criteria used to develop allocations across lead entities or watersheds within the region

The UCSRB Lead Entity (Lead Entity) approached the 2016 SRFB funding process in a similar way to previous years; there were no substantial changes to the process or timeline. In general, the Lead Entity facilitates a process that allocates funds within the Upper Columbia based on the regional biological priorities established in the Upper Columbia Biological Strategy (Upper Columbia Regional Technical Team (RTT) 2014) and the Upper Columbia Spring Chinook Salmon and Steelhead Recovery Plan (UCSRB 2007). Since previous SRFB grants have matched the regional priorities in recent grant cycles, the Lead Entity considers these criteria to be an appropriate guideline for funding allocation. Moreover, the biological priorities in the Regional Strategy closely match those in the Salmon Recovery Plan. The *UCSRB Lead Entity Funding Process Guide 2016 (v7)*, *2016 Regional Funding Timeline*, and *UCSRB Supplemental Application (Attachment A)* document the steps in our funding process in detail.

Regional Technical Review Process

How was the regional technical review conducted?

Since 2001, the Upper Columbia Regional Technical Team (RTT) has provided independent technical review for the Upper Columbia project proposals. From the beginning, the RTT used a formal process with review criteria to rate projects on its technical merits and consistency with regional biological priorities. It was the first technical team in the state to establish biological priorities at an Evolutionary Significant Unit (ESU) scale.

When the Upper Columbia Salmon Recovery Board (UCSRB) adopted the draft Salmon Recovery Plan in June 2005, the RTT met monthly from then through March 2006 to revise its project rating criteria based on the Viable Salmonid Population (VSP) parameters established in the Recovery Plan. The RTT revised its Biological Strategy again in 2009 to ensure consistency with the Recovery Plan, and again in 2012/2013 in a process that included stakeholder input (UCRTT Biological Strategy 2013). This 2013 update to the Biological Strategy was an update to replace all earlier versions of the Biological Strategy provided to the UCSRB (UCRTT 2000; UCRTT 2002; UCRTT 2008). The RTT is embarking on a new round of updates, as a part of our five-year

adaptive management check-in, that are intended to accomplish two main objectives: 1) better define the prioritization of habitat actions, 2) update the technical appendices and the text within the main body of the strategy with new information regarding restoration strategies and priorities.

See <http://www.ucsrb.org> for the revised Biological Strategy. The RTT anticipates the need for future updates as our understanding of salmonid ecology and restoration science improves and we achieve various restoration and protection objectives.

What criteria were used for the regional technical review?

RTT Project Scoring

The *RTT Scoring Criteria* used for the 2016 funding cycle can be found in **Attachment B**. The *RTT Scoring Meeting Summary* and results from the RTT's July 13th scoring meeting are also included in **Attachment B**.

New Monitoring Project Type

The RTT developed scoring criteria for monitoring projects in April, 2016. The 2016 criteria are aligned with RCO's manual 18 requirements and are the primary basis for UCSRB certification. The *RTT's Scoring Criteria for Monitoring Projects* and the *UCSRB Monitoring Project Regional Certification Process* can also be found in **Attachment B**.

Who completed the review (name, affiliation, and expertise) and are they part of the regional organization or independent?

Members of the Regional Technical Team participated in the final proposal review (the full list of the RTT is available at www.ucsrb.org). The RTT is an independent group of natural resource professionals in the region with a broad range of expertise relevant to fish biology, engineering and habitat rehabilitation. The individuals volunteer their time to the RTT on behalf of their agency or organization to provide a service to the region. The RTT elected a new chair, Tracy Hillman PhD, who assumed the chairmanship in August, 2016. Tables 3 and 4 identify the Upper Columbia RTT and Citizens Advisory Committees who reviewed, scored, and ranked projects this year.

Table 3. 2016 Regional Technical Reviewers

Regional Technical Team Project Review		
Name	Affiliation	Expertise
John Arterburn	Colville Confederated Tribes	Habitat and fish population status and trends monitoring, Habitat RM&E reporting; salmon ecology; habitat restoration evaluation and planning; project management.
Casey Baldwin (Vice Chair)	Colville Confederated Tribes	Aquatic ecology, habitat and fish population monitoring, salmon life cycle modeling, ESA recovery planning, habitat restoration prioritization.
Steve Fortney	Terraqua, Inc.	Fluvial geomorphology; salmonid ecology; habitat restoration evaluation and planning; habitat status and trend monitoring.
Tracy Hillman PhD (Chair)	BioAnalysts, Inc.	Certified ecologist; habitat restoration evaluation and planning; hatchery and habitat RM&E; fish ecology and population dynamics; subbasin planning and salmon recovery writing; modeling and statistical analysis.
Tom Kahler	Douglas County PUD	Salmon ecology; habitat restoration evaluation and planning; hatchery planning and RM&E; juvenile bypass development at hydro projects; RM&E at hydro projects.
Joe Lange	Natural Resource Conservation Service	Engineering; habitat restoration evaluation, planning, design, implementation, and monitoring.
Keely Murdoch	Yakama Nation	Ecology; habitat restoration evaluation.
Karl Polivka PhD	USFS PNW Research Lab	Salmon ecology; habitat restoration evaluation.
Brandon Rogers	Yakama Nation	Habitat restoration evaluation, planning, and implementation; project management.
Justin Yeager	NOAA Fisheries	Habitat restoration evaluation and planning; ESA regulatory review; Forest/riparian ecology.
Michael Ward	Terraqua, Inc.	Fisheries ecology; decision-support for fish and wildlife program managers and hydroelectric project operators; habitat restoration evaluation and planning; habitat status and trend monitoring; business and contract administration.

Table 4. 2016 Citizen's Advisory Committees

Chelan Citizen Advisory Committee Members	Representation from Statute	Geographic Area	Scored in 2016
Mike Deason (City of Leavenworth)	City	Leavenworth	X
Jerry Gutzwiler (Former Fish and Wildlife Commission)	Other Habitat Interests	Squilchuck	X
Bob Whitehall (Orchardist, Fisherman)	Other Habitat Interests	Entiat	X
Buford Howell (Interested citizen)	Other Habitat Interests	Leavenworth	X
Dave Graybill (Sporting Industry)	Other Habitat Interests	Wenatchee	X
Rick Smith (Wenatchee Reclamation District)	Landowner/Business Interest	Wenatchee	X
Jon Small (Orchardist)	Landowner/Business Interest	Entiat	X

Okanogan CAC Members	Representation from Statute	Geographic Area	Scored in 2016
Jerry Barnes (Okanogan Watershed Planning Unit)	Other Habitat Interests	Loomis	X
Bob Monetta (Business Realtor)	Business Interest	Methow	X
Craig Nelson (Chair) (Okanogan Conservation District)	Conservation district	Okanogan	
Tom McCoy (Environmental Consultant)	Environmental Group	Winthrop	X
Louis Sukovaty (Farmer)	Business Interest	Winthrop	X
Dale Swedberg (Citizen)	Environmental Group	Tonasket	
Will Keller (Okanogan NRCS)	Other Habitat Interests	Okanogan	X

Were there any projects submitted to the SRFB that were not specifically identified in the regional implementation plan or habitat work schedule?

If so, please provide justification for including these projects in the list of projects recommended to the SRFB for funding. If the projects were identified in the regional implementation plan or strategy but considered a low priority or in a low priority area please provide justification.

No

How did your regional review consider whether a project:

Provides benefit to high priority stocks for the purpose of salmon recovery or sustainability.

In addition to limiting factors analysis, Salmonid Stock Inventory, and Salmon and Steelhead Habitat Inventory and Assessment Program, what stock assessment work has been done to date to further characterize the status of salmonid species in the region? Briefly describe.

The *Upper Columbia Biological Strategy (UCRTT 2014)* identifies actions to consider in implementing projects with high biological benefit. The RTT rated actions and developed quartiles that compare actions across the entire ESU. Restoring the productivity of salmon and steelhead habitat in the Upper Columbia requires a prioritization of habitat actions to maximize the benefit derived from limited funding. The RTT Biological Strategy (Appendix H in UCSRB 2007, updated RTT 2014) documents biological considerations for the protection and restoration of habitat in order to provide a technical foundation for setting priorities. The intent of the document is to provide support and guidance on implementing the Recovery Plan. The Biological Strategy provides guidance on habitat actions that are expected to contribute to the improved status of the VSP parameters. Priority areas and ecological concerns have been identified for each assessment unit within the region (see the [2016 Project Information Table](#) in **Attachment C** that identifies the priority area and ecological concern rating for this year's proposed projects). The Biological Strategy complements the Recovery Plan by providing further support and guidance, and by serving as the technical foundation to set regional priorities for habitat protection and restoration actions. The strategy is developed by the RTT and is periodically revised.

Building on the Biological Strategy, the region uses a river reach-based action approach to ensure priority habitat projects are implemented with a clear understanding of the existing physical processes. This reach-based approach to project development incorporates information from tributary-scale and reach-scale hydro-geomorphic assessments and monitoring, which inform restoration and protection actions based on an assessment of channel processes and habitat impairments. As reach-level degradations and processes are defined, alternatives are produced in order to identify, sequence, and prioritize specific actions to protect and/or restore channel and floodplain connectivity and complexity.

Addresses cost-effectiveness. Provide a description of how cost-effectiveness was considered.

Cost effectiveness of 2015 proposals was determined using the methods described in the RTT's Biological Strategy (2014) and were calculated for monetary requests for both the "total project request" and the RTT biological benefit score. Cost-effectiveness scoring was determined for all project types. See actual analysis graphs in *RTT Scoring Meeting Summary (Attachment B)*.

In 2014 the RTT and CAC made the decision to have the CACs take a greater role in reviewing project costs. RTT decided to reduce the weight of cost-effectiveness in their scoring criteria. The Citizen Advisory Committees (CAC) now includes a detailed cost-effectiveness review through three separate criteria: project longevity, project scope, and economics.

Provides benefit to listed and non-listed fish species. Identify projects on the regional list that primarily benefit listed fish. Identify projects on the regional list that primarily benefit non-listed species.

See Table 6. Appendix N: Regional Area Project Matrix and the 2016 Project Information Table in Attachment C.

Preserves high quality habitat. Identify the projects on your list that will preserve high quality habitat.

See Table 6. Appendix N: Regional Area Project Matrix and the 2016 Project Information Table in Attachment C.

Implements a high priority project or action in a region- or watershed-based salmon recovery plan. Identify where and how the project is identified as a high priority in the referenced plan.

See Table 6. Appendix N: Regional Area Project Matrix and the 2016 Project Information Table in Attachment C.

Provides for match above the minimum requirement percentage. Identify the project's match percentage and the regional match total.

See Table 6. Appendix N: Regional Area Project Matrix for answer.

Is sponsored by an organization that has a successful record of project implementation. For example, identify the number of previous SRFB projects funded and completed.

See Table 6. Appendix N: Regional Area Project Matrix for answer

Involves members of the veteran’s conservation corps established in Revised Code of Washington 43.60A.150.

None

Local review processes. (Lead entity provide response)

Provide project evaluation criteria and documentation (local technical reviewer and citizen committee score sheet or comment forms) of your local citizen’s advisory group and technical advisory group ratings for each project, including explanations for differences between the two groups’ ratings.

RTT project scores are distributed to the local CACs to assist them in the development of their rankings see **Attachment B** for the *RTT Scoring Meeting Summary*. Okanogan and Chelan Citizen’s Committees had two separate ranking meetings and then a joint meeting to finalize the list. See table 5 below for all of the 2016 project scoring and ranking documentation.

Table 5. 2014 Project Proposal Reviewer’s Documentation

Technical Scoring	
RTT Scoring Criteria and RTT Scoring for Monitoring Projects (new)	Attachment B
RTT Draft Proposal Comments	Attachment B
RTT Scoring Meeting Notes	Attachment B
CAC Ranking Criteria	
Citizen’s Advisory Committee (CAC) Ranking Criteria	Attachment D
Chelan and Okanogan CAC’s Meeting Notes	Attachment D
Joint Committees Meeting Notes & Final Rank	Attachment D
Final List	
Upper Columbia Final Project List	Attachment E

Identify your local technical review team (include expertise, names, and affiliations of members).

See Table 3 above.

Explain how and when the SRFB Review Panel participated in your local process, if applicable.

Three members of the State Review Panel (SRP), Steve Toth, Pat Powers and Michelle Cramer, participated in our process for the 2016 round as follows:

Review Draft Proposals

The SRP had the opportunity to review draft applications

Project Tours

Members of the Lead Entity, CACs, RTT, HCP Tributary Committees, and SRP toured Methow sub-basin on May 5 and the Wenatchee sub-basin on May 11. The purpose of the tours was to evaluate the projects on site and to provide additional comments to the sponsors on ways to improve the technical merit of each project. These tours also facilitated productive discussions among all participants on local priorities in project development.

SRP Comment Process

Comments and feedback were distributed to individual sponsors. Project sponsors answered questions and received feedback during the site visits and in written form. The project sponsors addressed all feedback in their final PRISM submittals.

Local evaluation process and project lists. (Lead entity provide response)

Explain how multi-year implementation plans or Habitat Work Schedules were used to develop project lists.

The principle guiding document for identifying appropriate projects for implementation in the region is the Upper Columbia Spring Chinook Salmon and Steelhead Recovery Plan's (UCSRP) Biological Strategy (UCSRB 2007, RTT 2014), a federally approved Recovery Plan for this Evolutionary Significant Unit (ESU) in Washington State. The Biological Strategy outlines priorities so that sponsors can use this document to identify priority projects. The UCSRB staff works with project sponsors to populate the Habitat Work Schedule (HWS), which serves as the on-line database for the UCSRB Implementation Schedule.

Explain how comments of technical, citizen, and policy reviews were addressed in finalizing the project list. Were there any issues about projects on the list and how were those resolved?

RTT Reviews & Scoring

The RTT provided two separate technical reviews: direct feedback during the project site tours (May 5 and 11) and during the final review and scoring on July 13. RTT members, Lead Entity, and regional staff attended the Chelan and Okanogan CAC meetings on July 19 & 21 to describe the RTT scoring criteria.

Citizen's Reviews & Ranking

The **Citizen's Advisory Committees Ranking Criteria** can be found in **Attachment D**. On July 19 the Chelan CAC heard presentations from the project sponsors and asked questions, and then met again on July 26 to formally rank the projects for Chelan County. The Okanogan CAC met on July 21 to hear presentations from project sponsors and formally ranked the projects on July 28. See the **Joint Committee Meeting Notes** in **Attachment D**.

Joint Committee Approval of the Final Project List

The UCSRB staff facilitated the Joint CAC on August 2 to combine the Chelan and Okanogan project lists into one list for the Upper Columbia Region. During the Joint CAC meeting, members were presented with lists combined in different ways in order to choose their working list. Like past years, the joint committee members adopted a working list that combines the individual Chelan and Okanogan lists by using the 1-1 approach. This approach honors the sequence of the individual committee lists while placing the top ranked projects in each county towards top of the list. The primary determinant in breaking the tie between a project in Chelan County and in Okanogan County was the RTT biological benefit score. Once the working list was adopted members can move projects up or down the list by utilizing the following ground rules before approving a final list.

Joint Committee ground rules for decision-making:

- 1 A Citizen Advisory Committee member may, at any time, make a motion to move a particular project up or down on the list.
- 2 The Citizen Advisory Committee member making such a request must include rationale based on the citizens' review criteria for 2016
- 3 The Joint Citizen Advisory Committee will then engage in discussion regarding the motion to move a project on the list.

Upper Columbia River Salmon Recovery Region

- 4 After discussion, the Joint Citizen Advisory Committee will vote – approve, oppose, abstain – on the motion to move the project on the list.
- 5 The motion will carry upon unanimous approval by all Joint Citizen Advisory Committee Members (excluding “abstain” votes).

See the details in the *Joint Committee Meeting Summary* in **Attachment D** and the *Upper Columbia Final Project List* included in **Attachment E**.

Please find Table 6. Appendix N, Manual 18, Regional Area Project Matrix below.

Citations

Upper Columbia Regional Technical Team (UCRTT). 2014. A Biological Strategy to Protect and Restore Salmonid Habitat in the Upper Columbia Region.

Upper Columbia Regional Technical Team (UCRTT). 2013. A Biological Strategy to Protect and Restore Salmonid Habitat in the Upper Columbia Region.

UCSRB. 2007. Upper Columbia Salmon Recovery Board’s Upper Columbia Spring Chinook Salmon and Steelhead Recovery Plan. August 2007. Available online at <http://www.ucsrb.com/plan.asp> or www.ucsrb.com/UCSRP%20Final%2009-13-2007.pdf.

Table 6. Appendix N: Regional Area Project Matrix (Columns 3. H and 3. I are all N/A)

Rank	Project Number	Project Name	Project Sponsor	3 C. Primary Fish Stock Benefited	3 C. Name of Listed Species	3 C. Other Species Benefiting from this Project	3 D. Preserves high Quality Habitat	3 E. Priority in Recovery Plan or Strategy	3 F. Match %	3 G. Sponsor Record of SRFB Project Implementation
1	16-1780	Nason Creek RM 2.3 Side Channel Reconnection Design	Chelan County Natural Resource Department	Steelhead, Spring Chinook	UC Steelhead, UC Spring Chinook	Bull Trout	N/A	1 priority tributary, 1 priority Ecological Concern (EC) addressed, Peripheral and Transitional Habitat: Side Channel and Wetland Connection	0	37
2	16-1795	Silver Side Channel Acquisition Project	Methow Salmon Recovery Foundation	Steelhead	UC Steelhead, UC Spring Chinook	Spring Chinook, Bull Trout	Yes, 20.7 acres of floodplain protected, 95.8 acres land and wetland protected, 4750 ft. streambank	1	32.35	18
3	16-1787	Peshastin Irrigation District Pump Exchange Design	Chelan County Natural Resource Department	Spring Chinook	UC Spring Chinook	Bull Trout	N/A	1 priority EC, Water Quantity (decreased water quantity)		37

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Rank	Project Number	Project Name	Project Sponsor	3 C. Primary Fish Stock Benefited	3 C. Name of Listed Species	3 C. Other Species Benefiting from this Project	3 D. Preserves high Quality Habitat	3 E. Priority in Recovery Plan or Strategy	3 F. Match %	3 G. Sponsor Record of SRFB Project Implementation
4	16-1796	Twisp River Floodplain Lower Acquisition (Wiley Beach)	Methow Salmon Recovery Foundation	Bull Trout	UC Steelhead, UC Spring Chinook	Steelhead, Spring Chinook	Yes, 12 acres floodplain, 1500 ft. of riverbank	1	70.46	18
5	16-1783	Spring Chinook Monitoring in Lake Wenatchee	Chelan County Natural Resource Department	Steelhead, Spring Chinook, Bull Trout	UC Steelhead, UC Spring Chinook	Many salmonids and other fish/wildlife	N/A	Injury and Mortality (Predation, food competition, altered predator-prey species composition)	80.29	37
6	16-1797	Methow Bull Trout Population Status Evaluation	Methow Salmon Recovery Foundation	Spring Chinook	UC Steelhead, UC Spring Chinook	Steelhead, Bull Trout, Cutthroat	N/A	Population Level Effects	18.18	18
6	16-1792	Burns-Garrity Restoration Design	Cascade Columbia Fisheries Enhancement Group	Spring Chinook	UC Steelhead, UC Spring Chinook	Steelhead	N/A	2 priority EC, Peripheral and Transitional Habitat: Side Channel and Wetland Conditions	53.88	13
7	16-1790	Wenatchee Sleepy Hollow	Chelan Douglas Land Trust	Spring Chinook,	UC Steelhead,		Yes, 37 acres floodplain and side channel,	1 priority EC, peripheral and transitional	75	14

Upper Columbia River Salmon Recovery Region

Rank	Project Number	Project Name	Project Sponsor	3 C. Primary Fish Stock Benefited	3 C. Name of Listed Species	3 C. Other Species Benefiting from this Project	3 D. Preserves high Quality Habitat	3 E. Priority in Recovery Plan or Strategy	3 F. Match %	3 G. Sponsor Record of SRFB Project Implementation
		Floodplain Acquisition		Bull Trout, Steelhead	UC Spring Chinook		2700 ft. of riverbank	habitat: side channel and wetland connection		
8	16-1784	Identification of Thermal Refugia in Wenatchee Watershed	Chelan County Natural Resource Department	Spring Chinook	UC Steelhead, UC Spring Chinook	Steelhead, Bull Trout	N/A	1 & 4 priority EC, Channel structure and form: Instream structural complexity	15	37
9	16-1799	Upper Okanogan Habitat Feasibility Assessment	Okanogan Conservation District	Steelhead	UC Steelhead, UC Spring Chinook	Spring Chinook, Bull Trout	N/A	1,4,2 priority EC, Sediment condition	18.06	5
10	16-1789	Nason Creek Lower White Pine Floodplain Acquisition	Chelan Douglas Land Trust	Spring Chinook	UC Steelhead, UC Spring Chinook	Steelhead	Yes, 900 ft. of riverbank, 9 acres of floodplain, riparian vegetation, channel migration	1, 1 priority EC, Peripheral and Transitional Habitat: Side Channel and Wetland Connection	15.51	14
11	16-1800	Beaver Fever: Restoring Ecosystem Function	TU-Washington Water Project	Steelhead, Spring Chinook	UC Steelhead, UC Spring Chinook	Bull Trout	N/A	Variable priority EC, Water Quantity:	48.64	8

Upper Columbia River Salmon Recovery Region

Rank	Project Number	Project Name	Project Sponsor	3 C. Primary Fish Stock Benefited	3 C. Name of Listed Species	3 C. Other Species Benefiting from this Project	3 D. Preserves high Quality Habitat	3 E. Priority in Recovery Plan or Strategy	3 F. Match %	3 G. Sponsor Record of SRFB Project Implementation
								decreased water quantity		
12	16-1782	Upper Peshastin Wood Replenishment Design	Chelan County Natural Resource Department	Spring Chinook, Bull Trout	UC Steelhead, UC Spring Chinook	Steelhead	N/A	1 priority EC, Water Quantity: decreased water quantity	0	37
13	16-1807	Wenatchee-Chiwawa Irrigation District Piping Project	Chelan County Natural Resource Department	Spring Chinook, Bull Trout	UC Steelhead, UC Spring Chinook	Steelhead	Yes, 3.4 miles of flow improvement, ≤ 6.5 cfs increased flow	Water Quantity: decreased water quantity	0	37
14	16-1793	Restoring Peshastin Confluence	Cascade Columbia Fisheries Enhancement Group	Spring Chinook	UC Steelhead, UC Spring Chinook	Steelhead, Bull Trout	N/A	2 priority EC, Channel structure and form, instream structural complexity	51.72	13