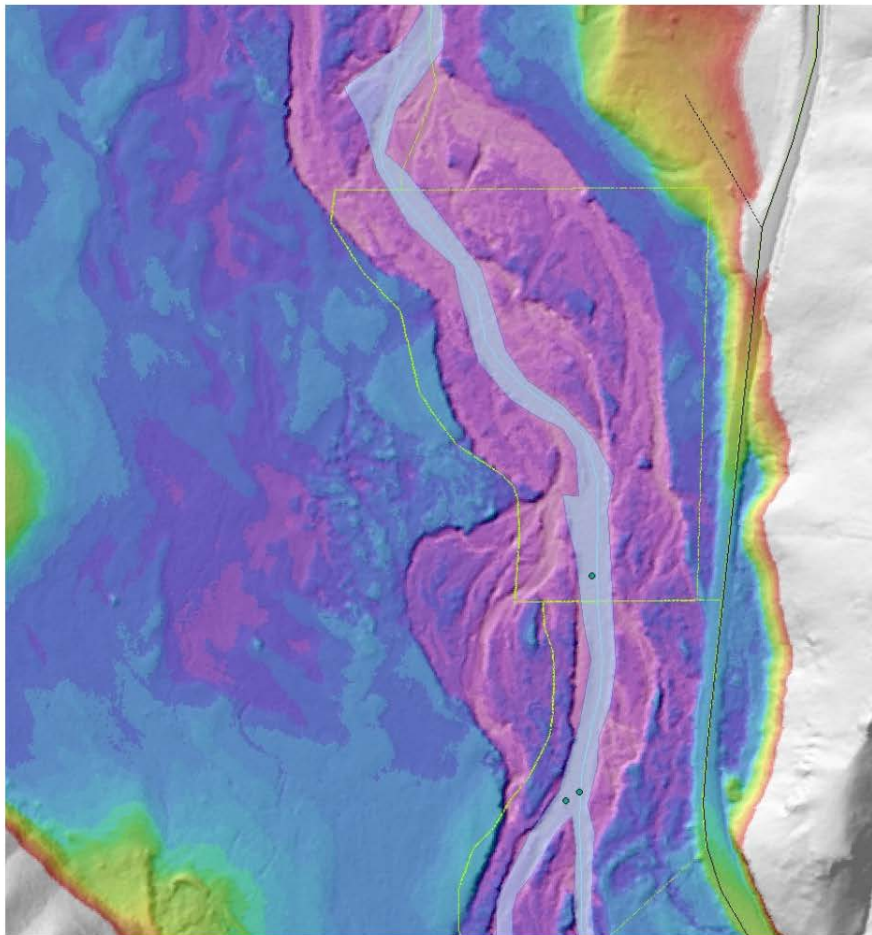




*Snake River
Salmon Recovery*

SNAKE RIVER SALMON RECOVERY REGION PROVISIONAL 3–5 YEAR WORK PLAN



Project Categories for Priority Restoration Reaches

- Restore & Protect Floodplain & Riparian Function
- Restore Habitat Complexity
- Reduce Fine Sediments
- Remove Imminent Threats
- Maintain or Restore In-stream Flow

Project Categories for Priority Protection Reaches

- Protect Floodplain & Riparian Function
- Reduce Fine Sediments
- Remove Imminent Threats
- Maintain or Restore In-stream Flow

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SNAKE RIVER SALMON REGION – PROVISIONAL WORK PLAN 2016-2021

INTRODUCTION

The Snake River Salmon Region – Provisional Work plan is produced by the Snake River Salmon Recovery Board (SRSRB) as a guide for salmon and steelhead recovery actions within the Snake River Region. The SRSRB Regional Technical Team (RTT) has developed and prioritized the actions and projects for habitat restoration, habitat assessments, research monitoring and evaluation, hatchery and information education and policy listed in the tables provided in this document. Recovery priorities are reviewed annually and new priority projects are identified, making the work plan a living document. The SRSRB uses the work plan format to provide priority projects lists for habitat restoration, assessments, research/monitoring and evaluation, hatchery activities, information/education or regulations for those who are preparing projects and those who provide funding for salmon recovery actions. This document is structured to list both general and specific actions for restoration by priority areas in each MSA/mSA as illustrated in the Snake River Reaches Priority Reaches Map (Figure 1). The projects listed in sections 1-5 are the current priorities identified as needing attention over the next 1-3 years.

The work plan has been partitioned into 2 sections categorized as follows; 1 - WRIA 32 33 & 35's Habitat Restoration & Protection, 2 – Habitat Assessments

The RTT has worked to provide general project categories for conducting habitat restoration in priority restoration and protection reaches in the Snake River Recovery Region. The guidelines are designed to aid project sponsors in developing restoration projects into beneficial salmon projects. The following General Project Category outline lists actions designed and tested for addressing regional limiting factors.

General Project Categories for Priority Restoration Reaches Include:

- Restore and Protect Floodplain and Riparian Function
 - Easements (CREP, Permanent Conservation)
 - Remove and modify river dikes that constrict floodplain function
 - Control noxious weeds that reduce riparian function
 - Riparian restoration projects (Fencing, planting, stock relocation)
 - Land use and planning
- Restore Habitat Complexity
 - Enhance stream channel complexity (wood placement, structures)
 - Extend stream length (Meander projects, & side channel construction)
 - Minimize confinement caused by channel training
- Reduce Fine Sediments
 - Upland BMPs (Direct seed, grass waterways, sediment ponds, native grass, & reforestation)
 - Fine sediment routing assessment and Implementation (Roadway maintenance, ephemeral stream, stream fords management, storm water)
- Remove Imminent Threats
 - Assess and remove / modify fish passage barriers
 - Screen and meter stream diversions
- Maintain or Restore In-stream Flow
 - Conduct water efficiency
 - Springhead inventory and protection
 - Aquifer Recharge (Currently only in WRIA 32, rural road storm water, winter flows, etc. – may need to evaluate WRIA 35)
 - Assess and enhance stream flows

General Project Categories for Priority Protection Reaches

- Protect Floodplain and Riparian Function
 - Easements (CREP & Permanent Conservation)
 - Control noxious weeds that reduce riparian function
 - Riparian restoration projects (Fencing, planting, stock relocation, & alternative water developments)
- Reduce Fine Sediments
 - Upland BMPs (Direct seed, grass waterways, sediment ponds, native grass)
 - Fine sediment routing assessment and Implementation (Roadway maintenance, ephemeral stream, stream fords)
- Remove Imminent Threats
 - Assess and remove fish passage barriers
 - Screen and meter stream diversions
- Maintain or Restore In-stream Flow
 - Conduct water efficiency
 - Springhead inventory and protection
 - Assess and enhance stream flows
- Water Quality
 - Maintain or improve water quality consistent with TMDL plans

Salmon Recovery Projects are funded through a number of grant opportunities provided by state, federal, and local agencies (Table 1). Work with the Snake River Salmon Recovery Board Lead Entity to find the appropriate funding source for your project.

Table 1. The Snake River Salmon Recovery Office has listed potential grants and funding sources (For assistance in identifying grant opportunities contact the Snake River Salmon Recovery Office).

Grant Name	Funding Agency	Funding Target	Web Link
Salmon Recovery Funding Board	Washington State Recreation and conservation Office	Salmon & steelhead restoration-in-stream, riparian, barriers, irrigation screens,	www.rco.wa.gov/srfb/board/board.htm
Recreation and Conservation Funding Board	Washington State Recreation and conservation Office	Recreation and habitat conservation	www.rco.wa.gov/rcfb/board/board.htm
Conservation Reserve Enhancement Program (CREP)	U.S. Department of Agriculture (Natural Resource Conservation Service) Farm Service Agency	Riparian restoration and preservation	www.fsa.usda.gov
Conservation Reserve Program (CRP)	U.S. Department of Agriculture (Natural Resource Conservation Service) Farm Service Agency	Assistance to eligible farmers and ranchers to address soil, water, and related natural resource concerns on their lands in an environmentally beneficial and cost-effective manner.	http://www.nrcs.usda.gov/programs/crp/
Terry Hussman Grant	Washington Department of Ecology	Habitat restoration and protection	
Fish America Foundation	NOAA Fisheries	Funds anadromous fish habitat restoration	www.nmfs.noaa.gov/habitat/restoration/projects_programs/crp/partners/fishamerica.html
Bonneville Power Administration	BPA	Funds Salmon Restoration and Monitoring Projects	
Community Salmon Fund	National Fish & Wildlife foundation & Salmon Recovery Funding Board	Fund habitat protection and restoration projects	Discontinued in 2011
ALEA	Washington Department of Fish and Wildlife	Funding habitat, research, education, facility development, and artificial production	http://wdfw.wa.gov/volunteer/volunteer-7.htm
Floodplains by Design	Washington Department of Ecology (in collaboration with The Nature Conservancy)	Integration of floodplain management with ecological function, values and benefits	http://www.floodplainsbydesign.org/
NOAA Restoration Center	NOAA Fisheries	A variety of funding opportunities in the PNW	www.restoration.noaa.gov

ACRONYMS			
ACCD	Asotin County Conservation District	WRIA	Watershed Resource Inventory Area
SRSRB	Snake River Salmon Recovery Board	WSDOT	Washington State Department of Transportation
USACE	United States Army Corps Engineers	WSUCE	WSU Cooperative Extension
USFS	United States Forest Service	WWC	Walla Walla County
AWB	Asotin Weed Board	WWCCD	Walla Walla County conservation District
BLMT	Blue Mountain Land Trust	WWWA	Walla Walla Watershed Alliance
BLC	Broughton Land Company	WWBWC	Walla Walla Basin Watershed Council
CC	Columbia County	NRCS	Natural Resources Conservation Service
CCD	Columbia Conservation District	IMW	Intensively Monitored Watershed (Research Project)
CCP	City of College Place	HWS	
CCWD	Columbia County Weed Board	TVCC	Touchet Valley Country Club
CDs	Conservation Districts	WWT	Washington Water Trust
CTUIR	Confederated Tribes of the Umatilla Indian Reservation	WDFW	Washington Department of Fish and Wildlife
CWW	City of Walla Walla	WDNR	Washington Department of Natural Resources
DB	Ditch Board	SRR	Spring Rise Restoration
EEDB	East End Ditch Board	MSA	Major Spawning Area
FFFP	Family Forest Fish Passage	mSA	Minor Spawning Area
FSA	Farm Service Agency	RFEG	Regional fisheries Enhancement Group
GFID #13	Gardena Farms Irrigation District No.13	PCD	Pomeroy Conservation District
IEAC	Inland Empire Action Coalition		
KC	Kooskooskie Commons		
LSRCP	Lower Snake River Compensation Plan		
NPCC	Northwest Power Conservation Council		
NPT	Nez Perce Tribe		
ODFW	Oregon Department of Fish and Wildlife		

**SNAKE RIVER SALMON RECOVERY REGION
PROVISIONAL WORK PLAN
2016-2021**

Section 1

HABITAT RESTORATION & PROTECTION

This chapter includes habitat restoration and protection projects for salmon, steelhead and bull trout recovery efforts in the Snake River Region. The section also included habitat assessments which are needed to better understand habitat for prioritizing and designing restoration projects. The following tables list habitat restoration and protection projects supported by the Snake River Salmon Recovery Board – Regional Technical Team (RTT) for the WRIA 32, 33 & 35 watersheds. The projects listed in these tables include in-stream habitat restoration, floodplain and riparian restoration & protection, upland restoration & protection, removal of imminent threats and non-capital assessment/design projects related to habitat restoration. A general project table for WRIA 32 & 35 has been developed for the purpose of demonstrating the high priorities within each WRIA.

Following Major/Minor Spawning Areas (MSA/mSA) are listed alphabetically with a description of their priority reaches and limiting factors (Note: many mSA do not have limiting factors identified). Projects that address imminent threats (fish barriers, unscreened diversions & seasonal dewatering creating significant fish passage limitations) may be conducted in areas outside those identified as priorities, when they pose an impact to recovery. The following project table is organized alphabetically by MSA/mSA and information is provided including; HWS Number (Habitat Work Schedule <http://hws.ekosystem.us/>), Project Name, Watershed, Status, Cost Range, and Start and End Date. The HWS Code is a code number for the Habitat Work Schedule where detailed information on proposed projects can be viewed by clicking the hyperlink in electronic copies of this document. The Project Name refers to the potential project's name. Location provides the MSA/mSA or tributary where project is being conducted. The column titled status indicates whether a project is conceptual, has been proposed for funding, has received funding or is active/be implemented. The column titled Cost Range identifies the relative cost range for the project. Project cost has been broken into three categories respectively from low cost to high; "I" will represent projects costing < \$100,000, "II" from \$100,000 - \$500,000, and III > \$500,000. The columns labeled Start Date/End Date indicate the time when the project either entered the work plan or when work is anticipated to begin and when it is anticipated for completion.

WRIA 32 General Projects for Priority Restoration & Protection Stream Reaches

The projects listed in the following table are intended to be general (Conceptual), and are to be conducted in priority stream reaches and appropriate watersheds (see SRSR Priority Reaches Map Figure 1 & the Snake River Salmon Recovery Plan 2011).

GENERAL PROJECT NAME	HWS CODE/ PROJECT TYPE	GOAL/ CONCEPT
Irrigation Efficiency	32-Irrigation Efficiency Protection	Maintain or improve in-stream flow/ Conduct projects that maintain or improve in-stream flow conditions. Projects could involve installation of delivery pipe, development of water management plans, soil moisture monitors, high efficiency delivery systems, shallow aquifer recharge project, water leases, water rights purchase, or inter-local agreements, etc.
Conserve Riparian Habitats	32-Riparian Habitats Protection	Riparian & floodplain function/ Conduct projects that work to protect and restore riparian habitats. Projects can use the available tools, including CREP or CREP like easements, CREP easement contract extensions, permanent conservation easements, zoning rule, etc.*
Noxious Weed Control	32-Noxious Weed Protection	Riparian & floodplain function/ Work to reduce the effects of noxious weeds that diminish riparian function. Projects will focus on riparian areas where negative impacts to salmon & steelhead populations have occurred or could occur. Projects will be accompanied by planting beneficial riparian species.
Implement Upland BMP's	32-Upland BMP's Protection	Reduce fine sediment/ Use upland BMPs to reduce soil loss and fine sediment routing to salmon bearing streams. Project may include conversion to direct seed/no-till agriculture, placement of sediment retention ponds, grass water-ways or other methods.
Implement Public Road Ways BMPs	32-Roadway BMP's Protection	Reduce fine sediment/ Some drainages produce large amounts of fine sediments from public road right of way. Fines are then transported through roadway ditches into salmonid bearing waterways. This project would focus on creating and implementing solutions to sediment routing problems.
Range Management	32-Range Management Protection	Reduce fine sediment/ Conduct projects that work to prevent or reduce fine sediments, originating on range lands, from routing to salmon bearing streams. Conduct weed control, range enhancement, CRP or CRP like projects, CRP contract extensions, develop grazing plans, install cross fencing, relocate or upgrade watering sites, etc.
Fire Wise Land Management	32-Firewise Protection	Reduce fine sediment/ Protect riparian forest & upland habitats through the Use of Fire Wise Land Management. This project will improve the overall health of upland forest and protect riparian habitats by minimizing catastrophic fire and the sedimentation that often accompanies fire impacts.
Livestock Management	32-Livestock Mgmt. Protection	Reduce fine sediment/ riparian & floodplain function/ Conduct projects that work to prevent or reduce fine sediment, originating in livestock feeding, watering or holding areas, from routing to salmon bearing streams. Construct cross fencing, alternative water sites, weed control, install sediment retention ponds, place riparian fencing, plant grass or forest buffer strips, & relocate stock from the riparian footprint.
Remove Fish Passage Barriers	32-Passage Barrier Imminent Threat	Imminent threat/ Work throughout the WRIA drainages to address fish passage barriers that impose a significant threat to salmon, steelhead or bull trout populations. Barrier projects will need to provide access to stream reaches significant to recovery efforts. Determination of project significance will be based on the perceived benefits to salmonids and be determined during the review process.
Install Fish Screens	32-Fish Screen Imminent Threat	Imminent threat/ This project will focus on identifying and implementing screen diversions & fish screen placements. Projects will focus on spawning and rearing stream reaches that harbor protected salmonids. Priority given on a case by case basis – early communication with the RTT during project development to discuss screen impact is critical. Determination of project significance will be based on the perceived benefits to salmonids and be determined during the review process – if multiple screens are grouped into one project, screens must be in the same drainage for evaluation purposes, along with screen size and type when possible.**
Increase Habitat Complexity	32-Habitat Complexity Restoration	Increase habitat complexity/ These projects will focus on improving habitat complexity through conducting in-stream habitat enhancement. The placement of large wood, rock, or other structural material for the purpose of developing pools, winter habitat (slack water & interstitial spaces), side channels, and spawning habitat. Combinations of materials will be used as suited to stream reaches while developing the highest benefit to salmon, steelhead and bull trout.
Geomorphic Assessments & Restoration Plans	32-Assessment and Planning Restoration	Conduct geomorphic based assessments which target large river reaches or drainages. The collection of LIDAR and air based photos to describe existing condition leading to the quantification of channel confinement, disconnected low floodplain or off channel habitat is recommended. Digestion of the data collected should lead to the development of a conceptual restoration strategy.
Regional Monitoring	32-Monitoring	Address a high priority information need or data gap identified within our recovery plan and/or associated regional research, monitoring, and evaluation (RME) plan or lead entity strategy. Be consistent or compatible with data collection, analysis, and management methods and protocols being used within the region and shall to the maximum extent practicable be consistent or compatible with methods and protocols in common use throughout the state.***

<p>Increase Stream Channel Length</p>	<p>32-Channel Length Restoration</p>	<p>Increase habitat complexity/ Many stream reaches have experienced channelization, incision, and straitening resulting in habitat loss both in complexity and length. These projects would be conducted in areas where stream channel meanders and off channel habitat could be increased producing additional stream channel habitat and reducing channel energy.</p>
<p>Restore Floodplain Connectivity & Function</p>	<p>32-Floodplain Connectivity and Function Restoration</p>	<p>Protect & Restore Floodplain Connectivity & Function/ Conduct projects that protect and restore floodplain connectivity and promote functioning ecosystems. Projects include dike setback, dike removal, river dike perforations, development of alternative flood protection methods (i.e. summer winter dike configurations) removing unneeded infrastructure from floodplains and preventing the needs for the creation of new dike systems.</p>

WRIA 35 General Projects for Priority Restoration & Protection Stream Reaches

The projects listed in the following table are intended to be general (conceptual) and are to be conducted in priority stream reaches in appropriate watersheds (see SRSR Priority Reaches Map Figure 1 & the Snake River Salmon Recovery Plan 2011).

GENERAL PROJECT NAME	HWS CODE/ PROJECT TYPE	GOAL/ CONCEPT
Irrigation Efficiency	35-Irrigation Efficiency Protection	Maintain or improve in-stream flow/ Conduct projects that maintain or improve In-stream flow conditions. Projects could involve installation of delivery pipe, development of water management plan, soil moisture monitors, high efficiency delivery systems, shallow aquifer recharge project, water leases, water rights purchase, source substitution, etc.
Conserve Riparian Habitats	35-Riparian Habitats Protection	Riparian & floodplain function/ This project will work to protect and restore riparian habitats from activities counterproductive to salmon and steelhead recovery. Projects can use the available tools, including CREP or CREP like easements, CREP easement contract extensions, permanent conservation easements, or zoning rules.*
Noxious Weed Control	35-Noxious Weed Protection	Riparian & floodplain function/ Work to reduce the effects of noxious weeds that diminish riparian function. Projects will focus on riparian areas where negative impacts to salmon & steelhead populations have occurred or could occur. Projects will be accompanied by planting beneficial riparian species.
Implement Upland BMP's	35-Upland BMP's Protection	Reduce fine sediment/ Use upland BMPs to reduce soil loss and fine sediment routing to salmon bearing streams. Projects may include conversion to direct seed no-till agriculture, placement of sediment retention ponds, grass water-ways or other methods.
Implement on Public Road Ways BMPs	35-Roadway BMP's Protection	Reduce fine sediment/ Some WRIA 35 drainages produce large amounts of fine sediments from public road right of way. Fine sediments are then routed through roadway ditches into salmonid bearing waterways. This project would focus on creating and implementing solutions to the sediment routing problems.
Range Management	35-Range Management Protection	Reduce fine sedimentation/ Conduct projects that work to prevent or reduce fine sediments, originating on range lands, from routing to salmon bearing streams. Conduct weed control, range enhancement, CRP or CRP like projects, CRP contract extensions, develop grazing plans, install cross fencing, relocate or upgrade watering sites, etc.
Fire Wise Land Management	35-Firewise Protection	Reduce fine sediment/ Protect riparian & upland forest habitats through the use of Fire Wise Land Management. This project will help improve the overall health of upland forested and riparian habitats by minimizing catastrophic fire impacts and the sedimentation that often occurs after large wild-fires.
Livestock Management	35-Livestock Mgmt. Protection	Reduce fine sedimentation & enhance riparian & floodplain function/ Conduct projects that work to prevent or reduce fine sediments from originating in live-stock feeding, watering or holding areas to salmon bearing streams. Construct cross fencing, alternative water sites, weed control, install sediment retention ponds, place riparian fencing, plant grass or forest buffer strips, & relocate stock from the riparian footprint.
Remove Fish Passage Barriers	35-Passage Barrier Imminent Threat	Imminent threat/ Work throughout the WRIA drainages to address fish passage barriers that impose a significant threat to salmon, steelhead or bull trout populations. Barrier projects will need to provide access to stream reaches significant to recovery efforts. Determination of project significance will be based on the perceived benefits to salmonids and be determined during the review process.
Install Fish Screens	35-Fish Screen Imminent Threat	Imminent threat/ This project will focus on identifying and implementing screen diversions & fish screen placements. Projects will focus on spawning and rearing stream reaches that harbor protected salmonids. Priority given on a case by case basis – early communication with the RTT during project development to discuss screen impact is critical Determination of project significance will be based on the perceived benefits to salmonids and be determined during the review process – if multiple screens are grouped into one project, screens must be in the same drainage for evaluation purposes, along with screen size and type when possible.**
Increase Habitat Complexity	35-Habitat Complexity Restoration	Increase habitat complexity/ These projects will focus on improving habitat complexity through conducting in-stream habitat enhancements. The placement of large wood, rock, or other structural material for the purpose of developing pools, side channels, winter habitat (slack water), and spawning habitat.
Geomorphic Assessments & Restoration Plans	35-Assessment and Planning Restoration	Conduct geomorphic based assessments which target large river reaches or drainages. The collection of LIDAR and air based photos to describe existing condition leading to the quantification of channel confinement, disconnected low floodplain or off channel habitat is recommended. Digestion of the data collected should lead to the development of a conceptual restoration strategy.
Regional Monitoring	35-Monitoring	Address a high priority information need or data gap identified within our recovery plan and/or associated regional research, monitoring, and evaluation (RME) plan or lead entity strategy. Be consistent or compatible with data collection, analysis, and management methods and protocols being used within the region and shall to the maximum extent practicable be consistent or compatible with methods and protocols in common use throughout the state.***

Channel Length & Sinuosity	35-Channel Length Restoration	Increase habitat complexity/ Many stream reaches have experienced channelization, incision, and straightening resulting in loss of habitat complexity and length. This project would be conducted in areas where stream channel meanders and off channel habitat could be increased.
Restore Floodplain Connectivity & Function	35-Floodplain Connectivity and Function Restoration	Riparian & floodplain function/ This project will work to conduct projects that protect and restore floodplain connectivity and promote functioning ecosystems. Projects include dike setback, dike removal, river dike perforations, development of alternative flood protection methods (i.e. summer winter dike configurations) removing unneeded infrastructure from floodplains and preventing the needs for the creation of new dike systems.

**Uplands may only be included in an easement or acquisition if the inclusion was less than or equal to the value associated with direct salmon benefits (riparian in general) or if they were used as match.*

*** Specific screen locations need to be identified in a project proposal rather than just a general action; each specific screen identified to be included in the project must have a signed landowner acknowledgement form. .*

****Monitoring may be an eligible project type, see the SRSRB application for details. Additionally, the SRSRB has requested that a project sponsor first seek Columbia River Salmon and Steelhead Endorsement funding (if eligible) before making a request for SRFB funds – see the SRSRB application for additional details.*

WRIA 32, 33, & 35 MSA/mSA Watershed Priority Reach Descriptions

The following MSA/mSA descriptions include all WRIA 32, 33 & 35 priority stream reach descriptions and when available limiting factors for salmon and steelhead survival (Figure 1 & 2). Maps illustrating regional MSA/mSA boundaries, priority reaches delineation, followed by descriptions and the habitat restoration project table.

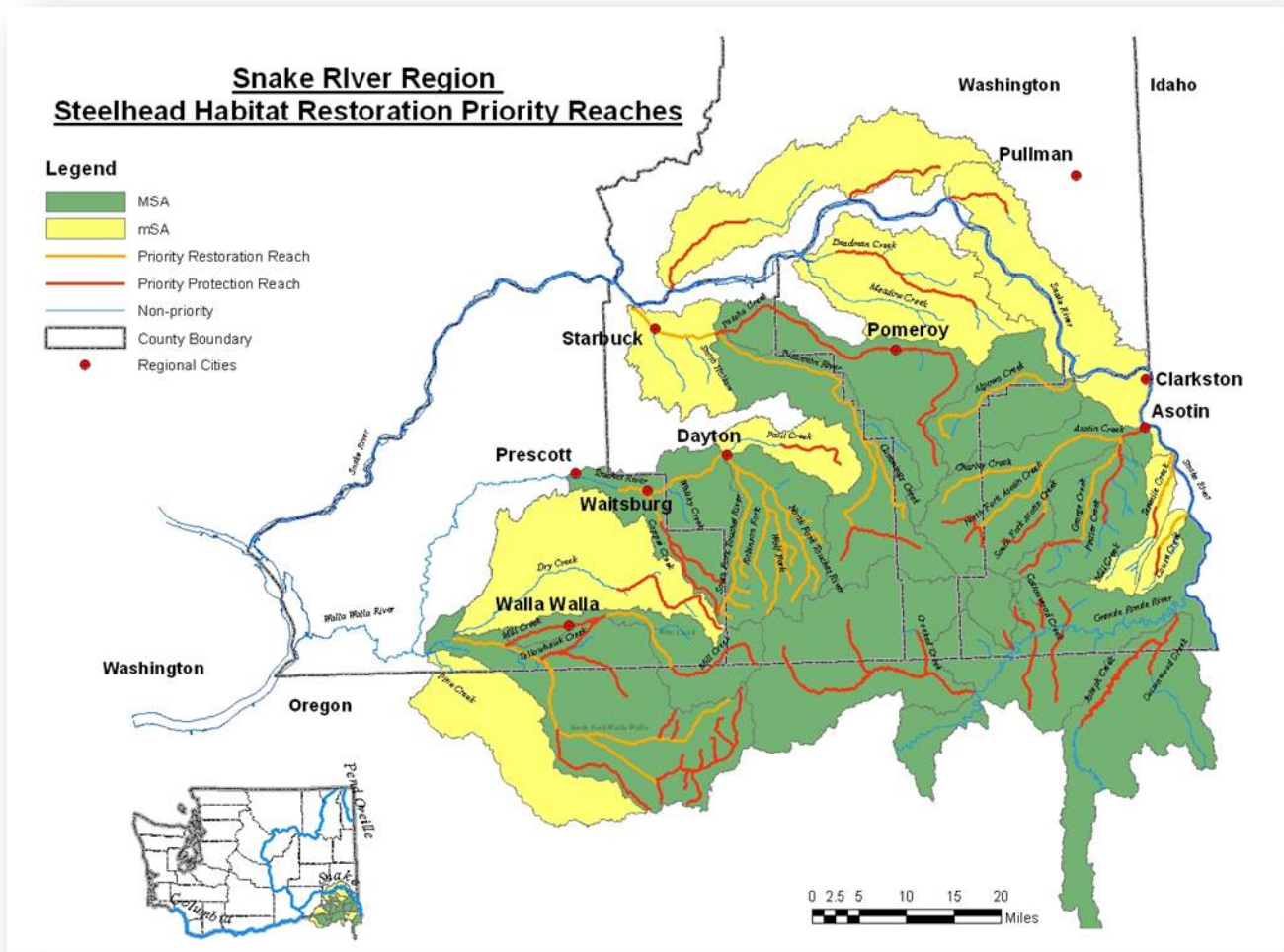


Figure 1. The Snake River Region MSA/mSA boundaries and priority reaches for Mid-Columbia and Snake River Steelhead (Snake River Salmon Recovery Plan 2005). Watersheds shaded green represent the major spawning areas (MSA) and the ones shaded yellow representing minor spawning areas (mSA) for salmon and/or steelhead. Areas of watersheds not colored are not currently considered salmonid habitat. Stream segments are colored orange, red or blue; these colors represent reaches designated as priority restoration, protection or no designation respectively.

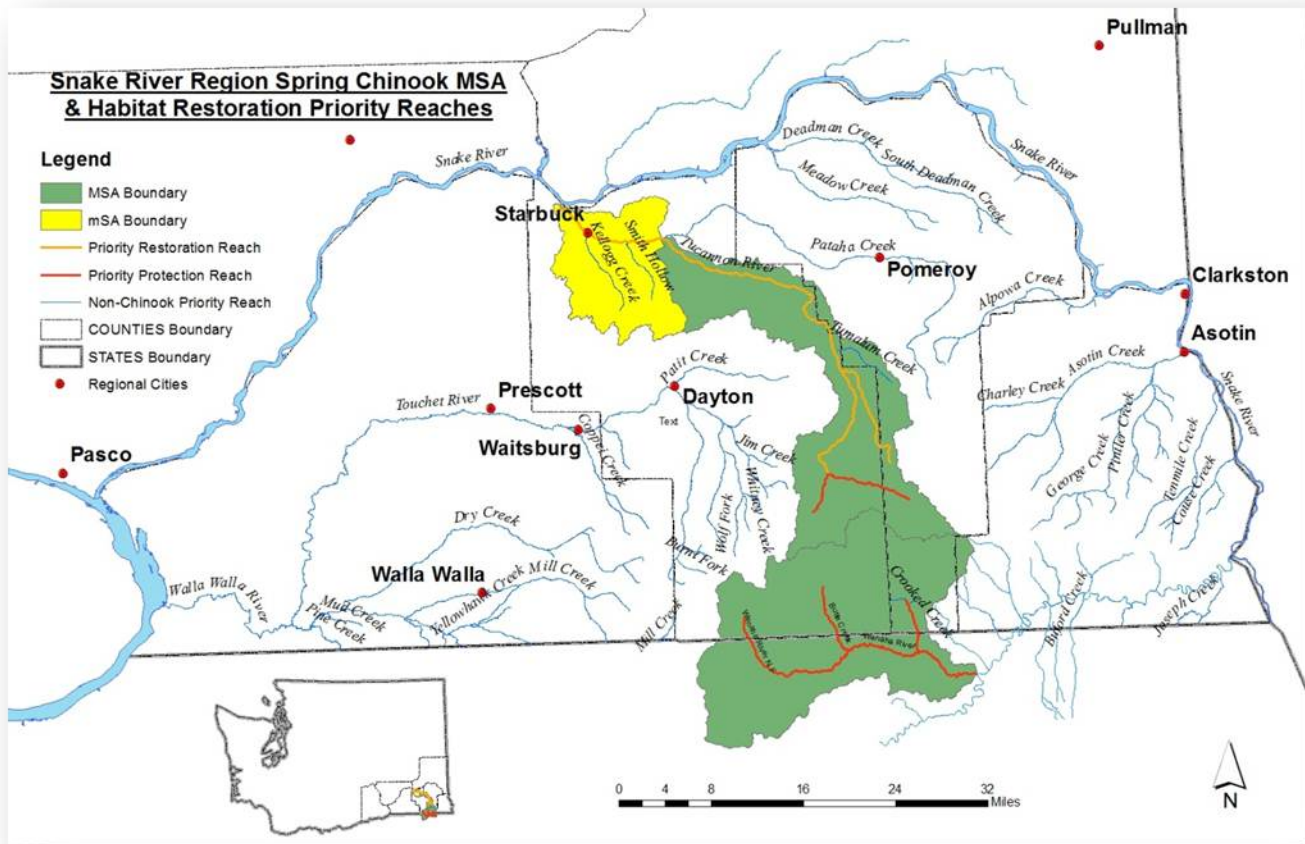


Figure 2. The Snake River Region MSA/mSA boundaries and priority reaches for Snake River spring Chinook (Snake River Salmon Recovery Plan 2005). Watersheds shaded green represent the major spawning areas (MSA) and the ones shaded yellow representing minor spawning areas (mSA) for salmon and/or steelhead. Areas of watersheds not colored are not currently considered salmonid habitat. Stream segment are colored orange, red or blue; these colors represent reaches designated as priority restoration, protection or no designation respectively.

MSA/mSA Descriptions for WRIA 32, 33 & 35

(Alphabetical Order)

Alkali Flat Creek mSA (Priority Protection Reach)

Alkali Flat mSA priority protection reach begins at its confluence with the Snake River and continues up stream to its junction with Mud Flats Creek. Limiting factors include fine sediment, low flow, habitat quality, habitat quantity, riparian function, water temperature, and obstructions.

Almota Creek mSA (Priority Protection Reach)

The Almota Creek mSA protection reach begins at its mouth on the Snake River and ends upstream at the Klemgard Road Bridge. Limiting factors include fine sediment, low flow, habitat quality, habitat quantity, poor riparian function, water temperature, and obstructions.

Alpowa Creek MSA (Priority Restoration & Protection Reach)

The Alpowa MSA Restoration reach extends from its confluence with the Snake River up to its head waters. Limiting factors include low stream flow, fine sediment, water temperature, key habitat quality and quantity, channel confinement, and imminent threats.

Asotin Creek MSA (Priority Restoration & Protection Reaches)

The Asotin Creek MSA priority restoration reach begins at the mouth of the George Creek and continues up to the U.S. National Forest Service Boundary, including all of Charley Creek. The Asotin Creek MSA priority protection reach begins at its confluence with the Snake River and extends up to the mouth of George Creek, including the North & South Fork Asotin Creek from U.S. National Forest Service Boundary to the headwaters. Limiting factors include fine sediment, channel stability, key habitat diversity, key habitat quantity, temperature, fish passage and flow.

Couse Creek mSA (Priority Restoration & Protection Reach)

The Couse Creek mSA begins at its confluence with the Snake River and continues up stream to Hoskins Gulch. The restoration reach includes the lower 4 miles of the drainage. The remainder of the drainage is a protection reach. Limiting factors include fine sediment, low flow, limited habitat quality, habitat quantity, large woody debris, channel confinement, riparian function, water temperature, and obstructions.

Deadman Creek mSA (Priority Protection Reach)

The Deadman Creek mSA priority protection reach begins at Breakdown Gulch and continues up stream into the South Fork of Deadman Creek (see Figure 1). Limiting factors include fine sediment, large wood debris, channel confinement, riparian function, habitat diversity, channel stability, habitat quality, water temperature, and In-stream flow.

Dry Creek mSA (Priority Protection Reach)

The Dry Creek mSA begins at its confluence with the Walla Walla River and continues up-stream to its origins. The priority protection reach begins at the Smith Road Bridge and continues up to its headwaters. Limiting factors include sediment, channel stability, riparian function, habitat quality, habitat quantity, temperature, and flow.

George Creek MSA (Priority Restoration & Protection Reaches)

The George Creek MSA priority restoration reach begins at its mouth and extends up to Wormell Gulch. Beyond Wormell Gulch, George Creek has a protection priority. Pintler Creek a tributary to George Creek is also designated as a priority protection reach. Limiting factors are identified as fine sediment, channel stability, key habitat quality, key habitat quantity, temperature, and flow.

Grande Ronde River MSA (Priority Protection Reaches)

The Grande Ronde River mSA begins at its confluence with the Snake River and continues into Oregon. Only the following Grande Ronde tributaries are designated as priority protection reaches, Grouse Creek, Cougar Creek, Bear Creek, Buford Creek, Cotton Wood Creek, and Rattle Snake Creek (see Figure 1 for detail). Limiting factors include habitat quality, habitat quantity, water temperature, fine sediment, riparian function and predation.

Joseph Creek MSA (Priority Protection Reach)

The Joseph Creek MSA priority protection reach begins at its confluence with the Grande Ronde River and continues up to its headwaters in Oregon. The Washington portion of the protection reach includes both the main-stem and Cottonwood Creek up stream to the Washington/Oregon state line. Limiting factors include fine sediment, water temperature, habitat structure, and predation.

Menatchee Creek mSA (Priority Protection Reach)

The Menatchee Creek mSA priority protection reach begins at its confluence with the Grande Ronde River and terminates at the US Forest Service Boundary. Limiting factors have not been designated for this reach, however general project guidelines apply.

Mill Creek MSA (Priority Restoration and Protection Reaches)

The Mill Creek MSA is designated as priority protection from its confluence with the Walla Walla River up to the Bennington Dam Diversion. Mill Creek is designated as a priority restoration reach from Bennington Dam to the Washington state line. Beyond where Mill Creek crosses the WA state line to its origins it is designated as a protection reach, including where Mill creek flows from Washington into Oregon. Limiting factors include passage, temperature, flow, habitat complexity, confinement, and channel stability.

Pataha Creek MSA (Priority Protection Reach)

The Pataha Creek MSA priority protection reach begins at its confluence with the Tucannon River and continues up stream beyond the U.S. Forest Service Boundary. Limiting factors include fine sediment, large wood debris, confinement, riparian function, habitat diversity, channel stability, incision, habitat quality, water temperature, and In-stream flow.

Patit Creek mSA (Priority Protection Reach)

The Patit Creek mSA begins at its mouth on the Touchet River main-stem and extends through the entire watershed. The priority protection reach includes only the South Fork Patit Creek with the main-stem and the North Fork being non-priority reaches. Limiting factors include channel stability, stream flow, habitat quality, fine sediment, water temperature, and key habitat quantity.

Penawawa Creek mSA (Priority Protection Reach)

The Penawawa Creek mSA priority protection reach begins at its mouth on the Snake River and continues up stream to Goose Creek. Limiting factors include fine sediment, low stream flow, poor habitat complexity related to LWD, poor riparian function, water temperature, and obstructions.

Pine Creek mSA (No Priority Designation)

The Pine Creek mSA begins at its mouth on the Walla Walla River and continues to its headwaters in Oregon. There currently is not a priority designation for Pine Creek and limiting factors were not specifically designated for Pine Creek.

Tenmile Creek mSA (Priority Restoration & Protection Reach)

The Tenmile Creek mSA priority restoration reach begins at its confluence with the Snake River and continues up stream for the lower 4 miles. The protection reach begins at 4 miles and continues upstream to Mill Creek. Limiting factors include fine sediment, low stream flow, lack of pool habitat, habitat diversity, large woody debris, channel confinement, poor riparian function, water temperature, and obstructions.

Touchet River, Middle MSA (Priority Restoration and Protection Reach)

The Touchet River MSA begins at the Highway 125 Bridge and continues up river to its confluence with Patit Creek in the City of Dayton. The priority restoration reach begins at the confluence of Coppei Creek and continues up river to the confluence with Patit Creek in the City of Dayton, including the tributary Coppei Creek up stream to McCown Road Bridge. Coppei Creek above McCown Road Bridge is designated as priority protection. Limiting factors include fine sediment, water temperature, habitat quality, habitat quantity, confinement, and riparian and floodplain function.

Touchet River, Upper MSA (Priority Restoration Reach)

The Upper Touchet River MSA priority restoration reach begins at the confluence of Patit Creek in the City of Dayton up river to the headwaters including major tributaries (North Fork, South Fork, Wolf Fork & the tributaries of these streams). Limiting factors for the upper Touchet River MSA include sedimentation, temperature, flow, habitat diversity, habitat quantity, confinement, and riparian function.

Tucannon River MSA (Priority Restoration & Protection Reaches)

The Tucannon River MSA priority restoration reach begins at its confluence with Pataha Creek and extends up river, including all of Cummings Creek, to its confluence with the Panjab Creek. Beyond the confluence with Panjab Creek, including Panjab Creek, the river is a priority protection reach. Limiting factors include fine sediment, large woody debris, confinement, riparian function, habitat diversity, channel stability, summer water temperatures, and In-stream flow.

Tucannon River mSA (Priority Restoration Reach)

The Tucannon River mSA begins at its confluence with the Snake River and continues up river to Pataha Creek. Limiting factors include fine sediment, large wood debris, channel confinement, poor riparian function, habitat quantity, channel stability, habitat quality, temperature, and In-stream flow.

Walla Walla River MSA (Priority Restoration and Protection Reach)

The Walla Walla River MSA begins at its confluence with Pine Creek and continues up river to its headwaters in Oregon, excluding Mill Creek which is a separate MSA. The priority restoration reach begins at the mouth of Dry Creek and continues up to the Washington state line. The priority protection reaches include the Yellowhawk distributaries and Cottonwood Creek. Limiting factors include fish passage, water temperature, stream flow, habitat quality, habitat quantity, channel confinement, and channel stability.

Wenaha River MSA (Priority Protection Reach)

The Wenaha River priority protection reach begins at its confluence with the Grande Ronde River and includes its tributaries. The Wenaha River is located in the state of Oregon with its tributaries originating in Washington. The Wenaha River drainage is nearly entirely located within the Wenaha Tucannon Wilderness and is considered a pristine salmonid habitat in Southeastern Washington; as a result few limiting factors have been identified. The limiting factor is habitat quantity.

The following table lists habitat restoration and protection projects identified and supported by the SRSRB RTT as of March 2018 updated over time since February 2011. For more information on any project click on the hyperlink under HWS Number column where a full description, map, photos, potential funding source, and other information is available.

Table Label	Description
HWS Number	Project number and link to complete project description
Name	Potential project name
Watershed	Location where the project would be implemented
Priority	Relative; High=1, Medium=3, Low=3
Status	Conceptual, Proposed for Funding, or Active
Project Contact	Potential project contact(s) if conceptual; actual project contact(s) if proposed or active
Sponsor	Potential project sponsor(s) if conceptual; actual project contact(s) if proposed or active
Estimated Budget	I represent projects estimated to be < \$100,000, II from \$100,000 - \$500,000, and III > \$500,000.
3-YR Priority	Projects identified that are a priority in the near term or within 3 years
3-10 YR Priority	Projects identified that for whatever reason are priorities beyond 3 years, but

Habitat Restoration Table for WRIA 32, 33, & 35

Water shed	SRP Project Type	SRP Number	SRP Project Name	SRP Status	SRP Priority	SRP Start Date	SRP End Date	Project Contact	SRP Budget	Estimated Costs Range	3 Yr Priority	3-10 Yr Priority	Proposed Start Date
Tucan non MSA/ mSA			Protection area identified in the Assessment for Easements	001 - NOT IN SRP						24950	Yes	Yes	2015
WRIA 32			Mill Creek Below 9th Ave.	001 - NOT IN SRP									
Mill Creek MSA			Reach 5: Flume Transition Trapezoidal to Rectangular	001 - NOT IN SRP						II	Yes	Yes	2015
Walla Walla Lower River	Restoration	32-WWB	Lower Walla Walla River Fish Screens	Active	1	10/4/1999	10/31/2024	Brian Burns, Rick Jones	\$100,000.00	II	Yes	Yes	Ongoing
Walla Walla MSA	Restoration	32-WWB	Creating Urban Riparian Buffers (CURB) Program	Active	1	1/1/2007		Brian Burns, Larry Hooker, Tara Patten	\$299,999.00	305957	yes	yes	
Walla Walla MSA	Restoration	OandM 32-00564	SAR OandM (Hall-Wetland and Locher Pit Sites)	Active	1	1/2/2005	12/31/2025		\$150,000.00	I	Yes	Yes	Ongoing
Walla Walla MSA	Restoration	Op Main 32-005	Locher Pit Operations	Active	1	1/1/2007	12/31/2025	Rick Henry	\$150,000.00	I	Yes	Yes	Ongoing

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Tucannon MSA/mSA	Restoration	35-TB	Tucannon River Irrigation Efficiency Projects	Active	1	1/1/1996	6/28/2024	Duane Bartels, Terry Bruegman	\$1,418,108.00	1418108	Yes	Yes	Ongoing
Walla Walla MSA	Restoration	32-00260	Walla Walla Flow Enhancement Feasibility Study	Active	1	1/1/2002	12/31/2025		\$250,000.00	II	Yes	Yes	
Grande Ronde MSA	Restoration	35-GR-CW (19-1498)	Cottonwood Creek Fish Passage Restoration	Active	3	12/15/2019	1/1/2024	Megan Stewert	\$552,000.00	III	Yes	No	2020
Grande Ronde MSA	Restoration	35-GR-BF; 17-1419; 18-209	Buford Creek Barrier Culvert Modification (HWY 129)	Active	1	1/20/2016	6/1/2020		\$2,904,000.00	III	Yes	Yes	2016
Grande Ronde MSA	Restoration	35-GR	CREP Grande Ronde MSA Priority Protection Reaches	Active	1	1/1/1996	6/30/2020	Megan Stewert	\$1,780,000.00	N/A	Yes	Yes	Ongoing
Tucannon MSA	Restoration	35-TB	CREP Tucannon River Restoration and Protection Reach	Active	1	1/1/1996	6/30/2020	Terry Bruegman	\$1,879,260.00	N/A	Yes	Yes	Ongoing
Walla Walla MSA	Restoration	32-00507	CREP Lower Walla Walla River	Active	1	1/1/1996	10/31/2024	Larry Hooker, Jeff Klundt, Rick Jones	\$750,000.00	N/A	yes	Yes	
Tucannon MSA	Restoration	35-TB, 18-209	Beaver Mgmt. – Reintro. and Habitat Enhancement	Active	3	12/8/2018	12/11/2021		\$69,000.00	I	Yes	Yes	2019

		3											
Couse Creek mSA	Restoration	35-CO	CREP Couse Creek Protection Reach	Active	1	1/1/1996	6/30/2020	Megan Stewert	\$297,000.00	N/A	Yes	Yes	On going
Dry Creek mSA	Restoration	32-dc	CREP Dry Creek Restoration and Protection Reach	Active	1	1/1/1996	6/30/2020	Jeff Klundt, Rick Jones, Larry Hooker	\$1,345,000.00	N/A	Yes	Yes	On going
Tucannon MSA	Restoration	35-TU 35-004 45, 19- 149 5	Tucannon PA 13 Habitat Enhancement	Active	3	12/14/2019	1/1/2024	Washington Department of Fish and Wildlife (WDFW)	\$1,199,991.00	II	Yes	Yes	2017
Tucannon MSA	Restoration	35-TU 35-004 48	Project Area 17 Floodplain and Riparian Restoration	Active	3	11/22/2011	12/31/2022		\$400,000.00	II	Yes	Yes	2018
George Creek MSA	Restoration	35-GE	CREP George Creek Restoration and Protection Reach	Active	1	1/1/1996	6/30/2020	Megan Stewert	\$377,000.00	N/A	Yes	Yes	On going
WRIA 35	Monitoring	M35-TU	Life Cycle Model of Tucannon Spring Chinook and Steelhead	Active	3	9/1/2020	12/30/2024		\$0.00	\$70,000 / year	Yes	Yes	2020
Walla Walla MSA	Restoration	32-WW B, 08- 203 3, 13- 140	Walla Walla Basin Fish Screen Projects	Active	1	6/6/2008		Rick Jones, Greg Kinsinger	\$305,882.00	260000	Yes	Yes	

		7											
Walla Walla MSA	Planning	32-WW, 18-2088	Walla Walla River Restoration Design at RM 35.5	Active	3	12/8/2018	12/11/2021		\$51,500.00	62000	Yes	Yes	
WRIA 32	Restoration	32-00417	Pilot Local Water Management Program	Active	1	7/1/2009	7/1/2022	Cathy Schaffer	\$2,000,000.00	I	yes	Yes	
Tucannon MSA/mSA	Planning	A35-TU	Tucannon Geomorphic Assessment and Restoration Prioritization Update	Active	3	5/1/2018	1/31/2021		\$0.00	I			
WW MSA, Mill Creek MSA, Touchet Middle MSA, Dry Creek mSA	Planning	A32-WW	Upper Walla Walla River Geomorphic Assessment and Action Plan	Active	3	4/1/2020	3/31/2021		\$320,000.00	II			
Touchet MSA, Patit mSA	Planning	32-TB, 17-1301	Touchet River Conceptual Restoration Plan	Active	1	12/8/2017	12/8/2020		\$248,443.00	II			
Tenmile Creek mSA	Restoration	35-TM CREP	CREP Tenmile Creek Protection Reach	Active	1	1/1/1996	6/30/2020	Megan Stewert	\$400,000.00	N/A	Yes	Yes	Ongoing

Snake River MSA	Restoration	35-SR	CREP Snake River mSA	Active	1	1/1/1996	6/30/2020	Megan Stewert	\$36,450.00	N/A	Yes	Yes	Ongoing
Pine Creek mSA	Restoration	32-00516	CREP Pine Creek Non-Priority Reach	Active	1	1/1/1996	6/30/2020	Jeff Klundt, Rick Jones, Larry Hooker	\$200,000.00	N/A	Yes	Yes	Ongoing
Alpowa Creek MSA	Restoration	35-AL12-27-2019.1	CREP Alpowa Creek Restoration and Protection Reach	Active	3	1/1/1996	6/30/2020	Megan Stewert	\$990,000.00	N/A	Yes	Yes	Ongoing
Touchet Lower	Restoration	32-LT32-00508	Lower Touchet River CREP	Active	2	1/1/1996	10/31/2024	Rick Jones, Larry Hooker	\$1,751,000.00	N/A	Yes	Yes	Ongoing
Pataha Creek MSA	Restoration	35-PA CREP	CREP Pataha Creek Restoration and Protection Reach	Active	1	1/1/1996	6/30/2020	Duane Bartels, Terry Bruegman	\$1,175,000.00	N/A	Yes	Yes	Ongoing
Walla Walla MSA	Restoration	32-CW, 18-2089	Cottonwood Creek Habitat Improvement	Active	3	12/8/2018	12/11/2021		\$242,050.00	I	No	Yes	
Touchet Middle MSA	Restoration	32-MT	CREP Middle Touchet River Restoration and Protection Reach	Active	1	1/1/1996	12/31/2025	Larry Hooker, Terry Bruegman, Rick Jones, Jeff Klundt	\$1,600,000.00	N/A	Yes	Yes	Ongoing
Touchet Middle MSA	Restoration	32-MT	Middle Touchet River Fish Screens	Active	1	1/31/1996	6/30/2025	Greg Kinsinger, Terry Bruegman	\$250,000.00	I	Yes	Yes	Ongoing

Walla Walla MSA	Restoration	32-00572	Stiller Pond Recharge Project and Local Water Plan	Active	1	5/10/2011	9/30/2016	Greg Kinsinger	\$107,000.00	107000	Yes	Yes	Ongoing
Joseph Creek MSA	Restoration	35-GR-JO	Joseph Creek Riparian Restoration (CREP, or other)	Active	1	1/1/1996	1/1/2025	Megan Stewert	\$50,000.00	I	Yes	Yes	Ongoing
Touchet Middle MSA	Restoration	32-MT (19-1461)	McCaw Restoration Phase C Construction	Active	3	12/14/2019	1/1/2023		\$610,151.00	I-II	Yes	Yes	2020
Walla Walla MSA	Restoration	32-00518	CREP Walla Walla River Restoration and Protection Reach	Active	1	1/1/1996	12/31/2025	Jeff Klundt, Rick Jones, Larry Hooker	\$1,288,000.00	N/A	yes	Yes	
Touchet River Lower	Restoration	32-00538	Irrigation Fish Screens Lower Touchet River	Active	1	1/8/1996	12/31/2024	Greg Kinsinger, Rick Jones	\$150,000.00	I	Yes	Yes	Ongoing
Mill Creek MSA	Restoration	32-MC	CREP Mill Creek Restoration and Protection Reach	Active	1	1/1/1996	6/30/2025	Jeff Klundt, Rick Jones, Larry Hooker	\$618,000.00	N/A	Yes	Yes	Ongoing
Mill Creek MSA	Restoration	32-00534	Mill Creek Irrigation Fish Screens	Active	1	1/8/1996	12/31/2024	Rick Jones	\$150,000.00	II	Yes	Yes	Ongoing
Touchet Upper MSA	Restoration	32-UT-NF (19-1496)	North Touchet Restoration RM 1.3-1.8	Active	3	12/14/2019	1/1/2024	Jerry Middel	\$1,214,800.00	III 1.2 mil, FBD at least half of that. SRFB 500k max	Yes	Yes	2020

Walla Walla MSA	Restoration	32-00536	Walla Walla MSA Irrigation Fish Screens	Active	1	1/8/1996	12/31/2024	Greg Kinsinger, Rick Jones	\$600,000.00	II	yes	yes	
Touchet Upper MSA	Restoration	32-UT, 18-2085	NF Touchet Floodplain and Habitat Rest. RM 3.3-4.3	Active	3	12/8/2018	12/11/2021		\$1,624,126.00	III \$817,400	Yes	Yes	2018
Asotin MSA	Planning	AC-02_PA-0619-1463	Asotin Creek PA 06 Design	Active	3	12/16/2019	1/3/2023	Megan Stewert	\$112,000.00	I-II	Yes	No	2020
Deadman Creek mSA	Restoration	35-dm	CREP Deadman Creek Protection Reach	Active	1	1/1/1996	6/30/2020	Duane Bartels	\$1,483,000.00	N/A	yes	yes	On going
Asotin MSA	Restoration	35-AS	CREP Asotin Creek Restoration and Protection Reach	Active	1	1/1/1996	6/30/2020	Megan Stewert	\$744,000.00	N/A	Yes	Yes	On going
Touchet Upper MSA	Restoration	32-00532	CREP Upper Touchet River Restoration and Protection Reach	Active	1	1/1/1996	6/30/2020	Terry Bruegman	\$1,993,000.00	N/A	Yes	Yes	Ongoing
Deadman Creek mSA	Restoration	35-DM 12-29-2019.1	Direct Seed Program Deadman Creek (BMPs)	Active	1	2/26/2009	12/31/2024	Duane Bartels		N/A	Yes	Yes	On going
Walla Walla MSA	Restoration	32-00542B	GFID #13 Main (Upper) Canal Piping Project	Active	1	1/2/2012	12/31/2025	Rick Jones, Greg Kinsinger, Jack Myrick, Stuart Durfee		III	yes	yes	

Dry Creek mSA	Restoration	32-dc 15-1307	Collins Bridge Fish Barrier Removal	Completed	1	12/8/2015	12/7/2018		\$182,414.00	182414	Yes	Yes	2016
Walla Walla MSA	Restoration	32-00223	Gardena Farms Irrigation District Local Water Plan (10-01)	Completed	1	5/1/2011	5/1/2016	Stuart Durfee, Matt Rajnus	\$270,000.00	I	Yes	Yes	
Dry Creek mSA	Restoration	32-WW B, 08-2033, 13-1407	Irrigation Fish Screens Dry Creek mSA	Completed	1	1/8/1996	1/19/2016	Greg Kinsinger, Rick Jones	\$670,003.00	I	Yes	Yes	On going
Walla Walla MSA	Restoration	32-WW 09-1411	Gardena Farms Diversion Dam and Fish Passage Improvement Project	Completed	1	12/6/2006	6/30/2011	Stuart Durfee	\$270,000.00	270000	Yes	Yes	
George Creek MSA	Restoration	35-GE	South George USFS Rd Decommissioning	Completed	1	11/19/2008	11/2/2015	Del Groat	\$160,000.00	160000	Yes	Yes	On going
Tucan non MSA/ mSA	Restoration	35-TU 08-2030	Columbia County false indigo bush removal	Completed	1	12/11/2008	5/13/2013	Lindsay Cox	\$112,000.00	112000	Yes	Yes	39793
Tucan non MSA	Restoration	35-TU	Project Area 22 Levee Setback and Complexity	Completed	1	1/1/2014	12/31/2018	Terry Bruegman	\$63,500.00	II	Yes	Yes	2013
Walla Walla	Restoration	32-WW	Yellowhawk Barrier Removal	Completed	1	8/25/2010	10/31/2014	Gerald Anhorn, Mike Pelissier	\$59,836.00	59836	yes	yes	2013

MSA		-YH 10- 183 4											
Grand e Ronde MSA	Restor ation	35- GR- CW; 17- 142 8	Fish Passage (Cottonwood Creek) Design	Complete d	2	3/2/201 8	6/30/20 20		\$101,700.00	II	No	Yes	2016
Patah a Creek MSA	Planni ng	35- 004 38 11- 157 4	Pataha Creek Watershed Assessment	Complete d	1	5/22/20 11	3/15/20 14	Duane Bartels	\$17,500.00	1750 0	Yes	Yes	2013
Touch et Middl e MSA	Restor ation	32- MT 11- 158 0	Touchet River McCaw Reach Restoration Project, Phase A and B	Complete d	3	7/29/20 10	10/1/20 13	Jeff Klundt, Rick Jones, Larry Hooker	\$226,837.00	2928 00	Yes	Yes	2013
Mill Creek MSA	Restor ation	32- MC 11- 158 7	Mill Creek Passage Reach Type 6	Complete d	3	12/9/20 11	8/31/20 14	Brian Burns	\$502,877.00	5028 77	Yes	Yes	2013
Mill Creek MSA	Restor ation	32- MC 09- 158 6	Mill Creek Sill Fish Passage (Construction Pilot)	Complete d	1	12/10/2 009	10/31/2 011	Brian Burns	\$262,748.00	2632 00	Yes	Yes	
Touch et Upper MSA	Restor ation	32- TR 32- 005 69	Touchet River Baileysburg Restoration Design	Complete d	3	1/2/201 3	1/2/201 6	Craig George	\$600,000.00	6000 00	Yes	Yes	2015

Touch et Upper MSA	Restoration	32-UT-NF (12-1635)	Culvert Replacement Bluewood Road	Completed	1	1/1/2009	8/30/2013	Jerry Middel, Del Groat	\$250,000.00	II	Yes	Yes	2013
Mill Creek MSA	Restoration	32-00412; 99-1319	Bennington Diversion Dam Fish Passage	Completed	1	1/1/2009	9/30/2013	Glen Mendel	\$5,000,000.00	5000000	Yes	Yes	2015
Mill Creek MSA	Restoration	13-138714-1894	Reach 3: Trapezoidal Flume Barrier Removal	Completed	3	1/1/2010	1/15/2019	Brian Burns	\$1,100,000.00	III	Yes	Yes	2013
Tucan non MSA	Restoration	#35-UT12-28-2018	Project Area 3 Wood Loading	Completed	3	9/15/2017	12/28/2018		\$625,000.00	II	Yes	No	
Mill Creek MSA	Planning	32-MC, 06-2203	Mill Creek Barrier Assessment	Completed	1	1/1/2006	8/30/2009	Brian Burns	\$113,000.00	113000	Yes	Yes	
Mill Creek MSA	Planning	32-MC32-0023211-1583	Jones Ditch - Passage/Screening and Habitat	Completed	3	1/5/2009	8/31/2015	Greg Kinsinger	\$94,297.00	94297	Yes	Yes	2012

Tucan non MSA	Restoration	35-TU 35-002 92 14-190 0	Project Area 24 Floodplain and Channel Complexity	Completed	3	12/12/2011	12/31/2016	Terry Bruegman	\$1,003,771.00	400000	Yes	Yes	2015
Tucan non MSA	Restoration	35-004 46	Project Area 12 Deer Lake Side Channel Large Wood Augmentation	Completed	1	11/21/2011	10/1/2015	Dave Karl	\$10,000.00	60000	No	y	2014
Tucan non MSA/ mSA	Restoration	35-TB	Tucannon Cobble Embeddedness and Percent Fines Project	Completed	1	7/1/2008	12/1/2008	Terry Bruegman	\$9,000.00	9000			
Tucan non MSA	Restoration	35-004 54	Project Area 23 Floodplain Ramirez	Completed	1	12/18/2011	12/31/2018	Terry Bruegman	\$200,000.00	II	Yes	Yes	2014
Tucan non MSA	Restoration	35-TC 35-004 62	Project Area 28 Channel Complexity and Floodplain Connectivity Phase I and III	Completed	3	3/1/2015	12/13/2019	Terry Bruegman	\$1,100,000.00	II	Yes	Yes	
Tucan non MSA	Restoration	35-TU 35-000 70	Project Area 18 Wooten (Hartsock) Floodplain and Complexity Restoration	Completed	1	1/1/2009	3/22/2012	Eric Hoverson, Dave Karl	\$102,000.00	III	Yes	Yes	2017
Tucan non MSA	Restoration	35-TU 35-004 67 14-189	Project Area 11 Tucannon LWD Floodplain and Complexity	Completed	3	2/1/2012	2/29/2016	Dave Karl	\$825,000.00	II	Yes	Yes	2014

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Tucan non MSA	Restoration	35-TU 35-004 72	Project Area 13 Rainbow Lake Reconfiguration and Levee Removal	Completed	3	11/21/2011	1/1/2019		\$2,000,000.00	III	Yes	Yes	2016
Tucan non MSA	Restoration	35-UT	Project Area 1 Panjab Bridge Downstream	Completed	1	12/12/2011	10/26/2014	Eric Hoverson, Del Groat, Greg Haller	\$575,000.00	II	Yes	Yes	2014
Tucan non MSA	Restoration	35-UT 12-164 1	Project Area 14 Hatchery Bridge to Cummins Cr Complexity	Completed	1	11/21/2011	12/31/2014	Dave Karl	\$1,375,668.00	1300 000	Yes	Yes	2013
Tucan non MSA	Restoration	35-UT 35-001 10	Project Area 26 Habitat Complexity Marengo to King Grade	Completed	1	1/1/2010	9/30/2013	Terry Bruegman	\$180,000.00	4000 00	Yes	Yes	2020
Tucan non MSA	Restoration	35-UT 35-001 10	Project Area 26 Habitat Complexity Marengo to King Grade	Completed	1	1/1/2010	9/30/2013	Terry Bruegman	\$180,000.00	II	Yes	Yes	2010
Tucan non MSA	Restoration	35-UT 35-004 47	Project Area 15 Russell Spring Cr Reach LWD Placement	Completed	3	11/22/2011	3/31/2016	Terry Bruegman	\$1,137,751.00	7000 00	Yes	Yes	2012
Tucan non MSA	Restoration	35-UT 35-004 50	Project Area 3 Little Tuc to Camp Wooten	Completed	3	12/11/2011	1/1/2015	Eric Hoverson, Del Groat	\$655,000.00	II	Yes	Yes	2013

George Creek MSA	Restoration	35-GE 12-1657	George Creek WDFW In-stream Habitat Restoration	Completed	3	9/19/2009	6/30/2015	Brian Burns, Dave Karl	\$456,000.00	456000	Yes	Yes	2013
Grand e Ronde MSA	Restoration	35-GR-RS 13-1398	Rattlesnake Creek SR 129 Culvert Replacement	Completed	1	1/15/2013	1/19/2016	Mike Miraglio	\$1,350,000.00	11	Yes	Yes	2014
Walla Walla MSA	Restoration	32-WW	Bergevin-Williams/Old Lowden Ditch Irrigation Efficiency	Completed	1	1/1/2009	4/30/2013	Kay Mead, Rick Jones, Larry Hooker	\$2,069,750.00	2069000	Yes	Yes	
Couse Creek mSA	Restoration	35-CO	Couse Creek No-till, Minimum Till and Direct Seed Farming	Completed	1	1/1/1996	1/19/2016	Sandy Cunningham	\$37,261.00	37261	Yes	Yes	On going
Asotin MSA	Restoration	35-AS 12-1633	Headgate Dam Fish Passage	Completed	1	1/1/2010	12/6/2016	Sandy Cunningham	\$286,000.00	286000	Yes	Yes	2013
WRIA 35	Restoration	WRIA-35-00006	Riparian Fire Prevention Project	Completed	1	1/5/2004	6/30/2015		\$50,000.00	1	Yes	Yes	
WRIA 35	Monitoring	35-TB, 16-2095	Tucannon Mobile PIT Tag Detection	Completed	1	12/9/2016	12/9/2019		\$81,147.00	\$40,000 / year	Yes	Yes	2020
Alpowa Creek MSA	Restoration	35-AL 13-139	Alpowa Instream Post Assisted Log Structures	Completed	1	1/1/2014	12/31/2017	Brad Johnson	\$151,555.00	151555	Yes	Yes	

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Alpowa Creek MSA	Restoration	35-AL; 14-1898	Restore Alpowa Creek Fish Passage	Completed	1	12/5/2014	12/5/2016	Mitch Daniel	\$47,100.00	47100	Yes	Yes	2014
Alpowa Creek MSA	Planning	35-AL 11-1576	Alpowa Creek Habitat Assessment	Completed	3	12/9/2011	8/31/2013	Brad Johnson	\$90,449.14	81534	Yes	Yes	2011
Tucannon MSA/mSA	Restoration	35-TB	Upland BMP Implementation Tucannon	Completed	1	11/10/1997	1/1/2003	Terry Bruegman		l	Yes	Yes	Ongoing
Walla Walla MSA	Restoration	32-WW 10-1819 11-1588	Bridge to Bridge Levee Project	Completed	3	8/25/2010	2/17/2015	Brian Burns	\$754,284.00	618234	yes	yes	2013
Walla Walla MSA	Restoration	32-WW	GFID # 13 South and North Lateral Canal Piping Project	Completed	1	1/1/2006	3/31/2013	Greg Kinsinger, Jack Myrick, Stuart Durfee, Rick Jones	\$6,459,314.00	3467500	yes	yes	
Asotin MSA	Restoration	35-AS 11-1573 12-1637	Asotin N. S. Fork and Charley Creek Channel Complexity (IMW Restoration)	Completed	3	1/2/2009	1/1/2016	Dave Karl	\$600,000.00	467000	Yes	Yes	2011

Walla Walla MSA	Restoration	32-WW	Garden City Piping Project	Completed	1	1/1/2006	4/29/2015	Rick Jones	\$1,437,000.00	1437000	yes	yes	
Alpowa Creek MSA	Restoration	35-AL, 17-1299	Alpowa Creek Instream PALS – Phase II	Completed	3	1/19/2018	10/31/2020		\$98,000.00	120000	Yes	Yes	
Mill Creek MSA	Restoration	32-00226	Mill Creek Recreation Fields (Schulke) Ditch	Conceptual	1	1/19/2016	12/31/2025	Rick Jones, Larry Hooker		II	No	Yes	2016
Mill Creek MSA	Restoration	32-00233	Enhance Municipal Storm Water Practices for Aquifer Recharge (Mill Cr)	Conceptual	1	1/1/2009	6/30/2011			II	Yes	Yes	Undetermined
Mill Creek MSA	Restoration	32-00266	Doan Creek Culvert Project	Conceptual	1	1/1/2009	1/15/2019	Dave Karl, Larry Hooker, Rick Jones		II	No	Yes	Undetermined
Mill Creek MSA	Restoration	32-00320	Habitat Restoration Bennington Diversion Dam to State Line	Conceptual	1	1/1/2009	1/19/2016			III	Yes	Yes	2014
Asotin MSA	Restoration	35-AS-CH	Riparian Fencing Charley Creek	Conceptual	1	1/1/2009	1/19/2016	Megan Stewert, Dave Karl	\$200,000.00	II	Yes	Yes	2013
Asotin MSA	Restoration	35-AS-CH	Relocate Charley Creek Roadway	Conceptual	1	1/1/2013	12/31/2016		\$200,000.00	200000	Yes	Yes	2016
Mill Creek MSA	Restoration	32-00585	Reach 12 and 13: Division Dam Fishways	Conceptual	3					III	Yes	Yes	2015
Mill Creek MSA	Restoration	32-00166	Doan Creek Habitat Work in College Place	Conceptual	2	1/19/2016	1/15/2019	Dave Karl, Rick Jones, Larry Hooker		I	No	Yes	2016
Asotin MSA	Restoration	35-AS-CH	Charley Creek Culvert Assess/Design	Conceptual	1	1/19/2016	1/15/2019		\$100,000.00	100000	No	Yes	Undetermined

Asotin MSA	Restoration	35-AS-12-27-2019.2	Riparian Restoration on WDFW Property in Asotin Creek	Conceptual	3	1/19/2016	1/15/2019	Megan Stewert, Dave Karl	\$0.00	I	No	Yes	Undetermined
Mill Creek MSA	Restoration	32-MC	Barrier Culvert at Mouth Titus Creek	Conceptual	1	8/30/2010	1/19/2016			II	Yes	Yes	2014
Asotin MSA	Restoration	AC-01_PA-01	Asotin Creek Reach 1 Project Area 01	Conceptual	1								
Asotin MSA	Restoration	AC-02_PA-02	Asotin Creek Reach 2 Project Area 02	Conceptual	1								
Mill Creek MSA	Planning	A32-00552	City of Walla Walla Limnology Study	Conceptual	2	1/1/2009	6/6/2011			I			
Mill Creek MSA	Planning	A32-00551	Assess Storm Water Impacts (Mill Creek)	Conceptual	2	1/1/2009	6/6/2011			I			
Asotin MSA	Restoration	AC-02_PA-04	Asotin Creek Reach 2 Project Area 04	Conceptual	1								
Mill Creek MSA	Restoration	32-MC	Mill Creek Reach 1 Sill Fish Passage (Implementation)	Conceptual	1	1/19/2013	1/1/2025	Brian Burns	\$132,276.00	5000000	Yes	Yes	Ongoing
Asotin MSA	Restoration	AC-02_PA-05	Asotin Creek Reach 2 Project Area 05	Conceptual	1								

Joseph Creek MSA	Restoration	35-GR-JO-12-30-2019.1	Joseph Creek Irrigation Efficiency and Riparian Restoration (WDFW Land)	Conceptual	3	1/19/2016	12/31/2025			I	No	Yes	2016
Joseph Creek MSA	Restoration	35-GR-JO	Riparian Restoration (Magden)	Conceptual	2	1/19/2016	1/15/2019		\$40,000.00	40000	No	yes	2016
Asotin MSA	Restoration	AC-03_PA-07	Asotin Creek Reach 3 Project Area 07	Conceptual	1								
Asotin MSA	Restoration	AC-04_PA-08	Asotin Creek Reach 4 Project Area 08	Conceptual	1								
Asotin MSA	Restoration	AC-04_PA-09	Asotin Creek Reach 4 Project Area 09	Conceptual	1								
Asotin MSA	Restoration	AC-04_PA-10	Asotin Creek Reach 4 Project Area 10	Conceptual	1								
Asotin MSA	Restoration	AC-04_PA-11	Asotin Creek Reach 4 Project Area 11	Conceptual	1								
Asotin MSA	Restoration	AC-02_PA-03	Asotin Creek Reach 2 Project Area 03	Conceptual	1								
Alpowa MSA	Restoration	PG-01_	Page Creek Reach 1 Project Area 59	Conceptual	1								

		PA-59											
Tenmile Creek mSA	Restoration	TM-01_PA-64	Tenmile Creek Reach 1 Project Area 64	Conceptual	1								
Tenmile Creek mSA	Restoration	TM-01_PA-63	Tenmile Creek Reach 1 Project Area 63	Conceptual	1								
Alpowa Creek MSA	Restoration	35-AL	Alpowa Creek Irrigation Efficiency Projects	Conceptual	1	1/1/2008	1/1/2023			II	Yes	Yes	On going
Snake River MSA	Planning	A35-00411	Near Shore Assessment WRIA 35	Conceptual	1	1/19/2010	12/31/2014			II			
Pataha Creek MSA	Restoration	35-00468	Pataha Creek willow Whips	Conceptual	1	2/5/2012	2/1/2015	Duane Bartels		I	y	y	2013
Pataha Creek MSA	Restoration	35-00173	Upper Pataha Restoration	Conceptual	1	1/19/2016	1/15/2019	Del Groat		I	No	Yes	2016
Pataha Creek MSA	Restoration	35-00073	Relocate Stock Water Out of Sensitive Riparian Areas in Pataha Creek	Conceptual	1	1/1/2009	1/19/2016	Duane Bartels, Terry Bruegman		I	Yes	Yes	2014
Alpowa MSA	Restoration	AP-01_PA-56	Alpowa Creek Reach 1 Project Area 56	Conceptual	1								
Mill Creek MSA	Restoration	A32-00553	City of Walla Walla Return Water	Conceptual	2	1/1/2009	6/6/2011			I			

Mill Creek MSA	Restoration	A32-00169	Assess Feasibility of Mill Creek Low Flow Channel	Conceptual	1	1/1/2009	6/6/2011			I			
Mill Creek MSA	Restoration	35-MC	Cold Creek Habitat Assessment/Design	Conceptual	2	1/19/2016	1/15/2019	Rick Jones, Larry Hooker		I	No	Yes	2016
Mill Creek MSA	Restoration	32-MC 32-00584	Reach Type 9 and 10 Rectangular to Trapezoidal Transition	Conceptual	3	1/1/2010	12/31/2025		\$600,000.00	II	Yes	Yes	2015
Mill Creek MSA	Restoration	32-MC	Mill Creek below Gose St to confluence with Walla Walla River FbD Concepts	Conceptual	3				\$0.00	I	yes	yes	
Alpowa MSA	Restoration	AP-02_PA-58	Alpowa Creek Reach 2 Project Area 58	Conceptual	1								
Asotin MSA	Restoration	35-AS	Headgate Park Habitat Complexity	Conceptual	1	1/1/2009	1/19/2016			II	Yes	Yes	2014
Alpowa MSA	Restoration	PW-01_PA-60	Pow Wah Kee Creek Reach 1 Project Area 60	Conceptual	1								
Mill Creek MSA	Restoration	32-MC 32-00583	Reach Type 8: Rectangular Double Wall Flume	Conceptual	3	1/1/2010	1/15/2019		\$600,000.00	III	Yes	Yes	2015
Alpowa MSA	Restoration	PW-01_PA-61	Pow Wah Kee Creek Reach 1 Project Area 61	Conceptual	1								
Alpowa MSA	Restoration	PW-01_PA-	Pow Wah Kee Creek Reach 1 Project Area 62	Conceptual	1								

		62											
Mill Creek MSA	Restoration	32-MC 32-005 82B	Reach Type 7: Rectangular Flume Split 3 ft Baffles	Conceptual	3	1/1/2010	11/27/2025		\$800,000.00	II	Yes	Yes	2015
Mill Creek MSA	Restoration	32-MC 32-002 30	Local Pilot Projects Reduce surface diversions (Titus Creek)	Conceptual	2	1/19/2016	12/31/2025	Gerald Anhorn		II	No	Yes	2016
Asotin MSA	Restoration	35-AC 35-004 03	Dike Setback Asotin and Charley Creek WDFW Land	Conceptual	3	1/1/2016	12/31/2025			II	No	Yes	2016
Asotin MSA	Restoration	35-AL	Lick Creek Culvert Replacement	Conceptual	3	1/1/2021	1/1/2023				Yes	Yes	43831
Mill Creek MSA	Restoration	32-MC	Mill Creek Reach 4: Trapezoidal Flume Split	Conceptual	1	1/1/2010	1/15/2019		\$750,000.00	II	Yes	Yes	2015
George Creek MSA	Restoration	PC-04_ PA-52	Pintler Creek Reach 4 Project Area 52	Conceptual	1								
Asotin MSA	Restoration	35-AS	Asotin Creek Upland Best Management Practices	Conceptual	1	1/1/2009	1/19/2016			I	Yes	Yes	On going
Asotin MSA	Restoration	CC-01_ PA-12	Charley Creek Reach 1 Project Area 12	Conceptual	1								
Mill Creek MSA	Restoration	32-MC	Mill Creek above WWCC FbD Concepts	Conceptual	3				\$0.00	I	yes	yes	

Alpowa MSA	Restoration	AP-02_PA-57	Alpowa Creek Reach 2 Project Area 57	Conceptual	1								
Both WRIA's	Restoration	00-00006	Water Conservation Implementation WRIA 32 and 35	Conceptual	1	1/3/2004	6/30/2025			II	Yes	Yes	On going
George Creek MSA	Restoration	PC-04_PA-54	Pintler Creek Reach 4 Project Area 54	Conceptual	1								
Asotin MSA	Restoration	NF-02_PA-23	North Fork Asotin Reach 2 Project Area 23	Conceptual	1								
Asotin MSA	Restoration	SF-01_PA-28	South Fork Asotin Reach 1 Project Area 28	Conceptual	1								
Asotin MSA	Restoration	SF-01_PA-29	South Fork Asotin Reach 1 Project Area 29	Conceptual	1								
George Creek MSA	Restoration	GC-01_PA-33	George Creek Reach 1 Project Area 33	Conceptual	1								
George Creek MSA	Restoration	AY-01_PA-44	Ayers Gulch Reach 1 Project Area 44	Conceptual	1								
Asotin MSA	Restoration	SF-01_PA-30	South Fork Asotin Reach 1 Project Area 30	Conceptual	1								

Asotin MSA	Restoration	SF-01_PA-31	South Fork Asotin Reach 1 Project Area 31	Conceptual	1								
Asotin MSA	Restoration	SF-01_PA-32	South Fork Asotin Reach 1 Project Area 32	Conceptual	1								
Both WRIAs	Acquisition & Restoration	WRIA 32-35	Regional Protect Expiring CRP Leases	Conceptual	1	1/1/2009	12/31/2025	Terry Bruegman, Duane Bartels, Larry Hooker, Cheryl Sonnen		II	Yes	Yes	Ongoing
Tenmile Creek mSA	Restoration	TM-01_PA-68	Tenmile Creek Reach 1 Project Area 68	Conceptual	1								
Both WRIAs	Monitoring	A00-00006	Assessment of River Confinement in Priority Areas	Conceptual	3	1/1/2025	1/1/2026		\$0.00	II			
Touchet Upper MSA	Restoration	32-00474	North Fork Touchet Recreational In Channel Disturbances	Conceptual	1	1/1/2010	1/1/2019			II	Yes	Yes	Ongoing
Asotin MSA	Restoration	NF-02_PA-21	North Fork Asotin Reach 2 Project Area 21	Conceptual	1								
Couse Creek mSA	Restoration	CO-01_PA-77	Couse Creek Reach 1 Project Area 77	Conceptual	1								
Dry Creek mSA	Restoration	32-dc	Dry Creek Head Cut	Conceptual	1	1/19/2016	12/31/2025	Rick Jones, Larry Hooker		I	No	Yes	2016
Couse Creek	Restoration	CO-04_	Couse Creek Reach 4 Project Area 81	Conceptual	1								

mSA		PA-81											
Couse Creek mSA	Restoration	CO-03_PA-83	Couse Creek Reach 3 Project Area 83	Conceptual	1								
Dry Creek mSA	Restoration	32-DC	Dry Creek Instream Habitat Restoration	Conceptual	3				\$0.00	I	Yes	Yes	
Dry Creek mSA	Restoration	32-dc	Stream Crossings (Fords) in Dry Creek mSA Scott Rd.	Conceptual	3	1/19/2016	1/15/2019			II	No	Yes	2016
Both WRIA s	Monitoring	A00-00422	Acquire LiDAR and Orthographic Images to Measure Habitat Parameters	Conceptual	3	1/1/2025	1/1/2026		\$0.00	I			
Couse Creek mSA	Restoration	CO-02_PA-80	Couse Creek Reach 2 Project Area 80	Conceptual	1								
Both WRIA s	Planning	A32-00424	Assess The Effect of Land Development	Conceptual	1	1/3/2005	12/31/2014			I			
Couse Creek mSA	Restoration	35-CO12-27-2019.3	Couse Creek Fish Passage (Instream Rock Structure)	Conceptual	2	1/19/2016	12/31/2024	Cheryl Sonnen		I	No	Yes	2016
Dry Creek mSA	Restoration	35-DC	Dry Creek Fish Passage at Middle Waitsburg Bridge	Conceptual	3	1/1/2021	1/1/2023			II	Yes	Yes	2017
George Creek MSA	Restoration	35-GE	Ayers Gulch Sediment Retention Pilot	Conceptual	1	1/19/2016	1/15/2019	Dave Karl		I	No	Yes	2016

Couse Creek mSA	Restoration	35-CO	Couse Creek Head Cut	Conceptual	1	2/2/2009	1/17/2016	Sandy Cunnigham		I	Yes	Yes	2013
Both WRIAs	Restoration	A35-00169	Regionally Assess the Use of Agricultural Chemicals on Upland Areas	Conceptual	2	1/1/2009	6/6/2011			I			
George Creek MSA	Restoration	GC-01_PA-34	George Creek Reach 1 Project Area 34	Conceptual	1								
Couse Creek mSA	Restoration	CO-03_PA-82	Couse Creek Reach 3 Project Area 82	Conceptual	1								
Asotin MSA	Restoration	LC-01_PA-24	Lick Creek Reach 1 Project Area 24	Conceptual	1								
Asotin MSA	Restoration	CC-01_PA-14	Charley Creek Reach 1 Project Area 14	Conceptual	1								
George Creek MSA	Restoration	PC-04_PA-53	Pintler Creek Reach 4 Project Area 53	Conceptual	1								
George Creek MSA	Restoration	PC-03_PA-55	Pintler Creek Reach 3 Project Area 55	Conceptual	1								
George Creek MSA	Restoration	PC-02_PA-51	Pintler Creek Reach 2 Project Area 51	Conceptual	1								
George	Restoration	PC-01_	Pintler Creek Reach 1 Project Area 50	Conceptual	1								

Creek MSA		PA-50												
George Creek MSA	Restoration	PC-01_PA-49	Pintler Creek Reach 1 Project Area 49	Conceptual	1									
George Creek MSA	Restoration	PC-01_PA-48	Pintler Creek Reach 1 Project Area 48	Conceptual	1									
George Creek MSA	Restoration	PC-01_PA-47	Pintler Creek Reach 1 Project Area 47	Conceptual	1									
Asotin MSA	Restoration	CC-02_PA-15	Charley Creek Reach 2 Project Area 15	Conceptual	1									
Asotin MSA	Restoration	CC-02_PA-16	Charley Creek Reach 2 Project Area 16	Conceptual	1									
Asotin MSA	Restoration	CC-02_PA-17	Charley Creek Reach 2 Project Area 17	Conceptual	1									
George Creek MSA	Restoration	PC-01_PA-46	Pintler Creek Reach 1 Project Area 46	Conceptual	1									
Asotin MSA	Restoration	CC-02_PA-18	Charley Creek Reach 2 Project Area 18	Conceptual	1									
Asotin MSA	Restoration	NF-02_PA-	North Fork Asotin Reach 2 Project Area 22	Conceptual	1									

		22												
George Creek MSA	Restoration	GC-03_PA-39	George Creek Reach 3 Project Area 39	Conceptual	1									
Asotin MSA	Restoration	NF-02_PA-20	North Fork Asotin Reach 2 Project Area 20	Conceptual	1									
George Creek MSA	Restoration	GC-01_PA-35	George Creek Reach 1 Project Area 35	Conceptual	1									
George Creek MSA	Restoration	GC-01_PA-36	George Creek Reach 1 Project Area 36	Conceptual	1									
George Creek MSA	Restoration	GC-02_PA-37	George Creek Reach 2 Project Area 37	Conceptual	1									
Asotin MSA	Restoration	NF-01_PA-19	North Fork Asotin Reach 1 Project Area 19	Conceptual	1									
George Creek MSA	Restoration	KC-01_PA-45	Kelly Creek Reach 1 Project Area 45	Conceptual	1									
George Creek MSA	Restoration	GC-03_PA-38	George Creek Reach 3 Project Area 38	Conceptual	1									
George Creek MSA	Restoration	GC-06_PA-	George Creek Reach 6 Project Area 43	Conceptual	1									

Creek MSA		PA-43											
George Creek MSA	Restoration	GC-03_PA-40	George Creek Reach 3 Project Area 40	Conceptual	1								
George Creek MSA	Restoration	GC-04_PA-41	George Creek Reach 4 Project Area 41	Conceptual	1								
George Creek MSA	Restoration	GC-05_PA-42	George Creek Reach 5 Project Area 42	Conceptual	1								
Asotin MSA	Restoration	LC-03_PA-26	Lick Creek Reach 3 Project Area 26	Conceptual	1								
Asotin MSA	Restoration	LC-02_PA-25	Lick Creek Reach 2 Project Area 25	Conceptual	1								
Asotin MSA	Restoration	CC-01_PA-13	Charley Creek Reach 1 Project Area 13	Conceptual	1								
Asotin MSA	Restoration	LC-03_PA-27	Lick Creek Reach 3 Project Area 27	Conceptual	1								
Tucannon MSA/mSA	Planning	A35-00246	Tucannon River Sediment Compaction Assessment (Frozen Core Method)	Conceptual	1	1/7/2008	12/31/2014			I			

Walla Walla MSA	Restoration	32-WW-00329	Walla Walla Flow Enhancement Implementation (Pump Exchange)	Conceptual	3	1/1/2009	12/31/2025			III	No	Yes	
Walla Walla MSA	Restoration	32-WW	Upland BMPs Walla Walla River	Conceptual	3				\$0.00	I	Yes	Yes	Ongoing
Walla Walla MSA	Restoration	32-MC	Upland BMPs Mill Creek	Conceptual	3				\$0.00	I	Yes	Yes	Ongoing
Walla Walla MSA	Restoration	32-00558	Restoration of Mud Creek	Conceptual	2	1/1/2016	12/31/2025			I	No	yes	
Walla Walla MSA	Restoration	32-00419	Walla Walla River Spring Creek Riparian Projects	Conceptual	2	12/31/2010	12/31/2025		\$100,000.00	100000	Yes	Yes	
Touchet Upper MSA	Restoration	32-00247	Hearn Ditch (Touchet River)	Conceptual	1	1/1/2016	1/1/2019	Terry Bruegman		I	No	Yes	2016
Walla Walla MSA	Restoration	32-00224	Pipe Lowden No. 2 Canal	Conceptual	1	1/1/2009	12/31/2025	Rick Jones, Larry Hooker		III	Yes	Yes	
Tenmile Creek mSA	Restoration	TM-02_PA-69	Tenmile Creek Reach 2 Project Area 69	Conceptual	1								
Walla Walla MSA	Restoration	32-00177	Re-route Yellowhawk Creek Storm water Runoff	Conceptual	1	1/1/2016	1/1/2019			III	No	Yes	
Walla Walla MSA	Restoration	32-00176	Mud Creek Reconnection to Dry Creek	Conceptual	1	1/1/2009	12/31/2025	Rick Jones, Larry Hooker		II	No	Yes	

Walla Walla MSA	Restoration	32-00093B	Implement findings of the Gardena Farms Diversion Dam and Fish Passage	Conceptual	3	1/2/2010	6/28/2025			III	Yes	Yes	
Walla Walla MSA	Planning	32-00447	Yellowhawk Streamkeepers	Conceptual	1	1/1/2006	6/30/2011	Judith Johnson		I	No	Yes	
Tucannon mSA	Restoration	35-00485	Project Area 37 Levee Set Back and LWD RV Park	Conceptual	1	1/15/2016	1/1/2019			II	No	Yes	2018
Tucannon MSA/mSA	Planning	A35-00247	Tucannon River LWD Assessment	Conceptual	1	1/5/2009	12/31/2014			I			
WRIA 32	Monitoring	M32-DC	Dry Creek Adult Trap and Weir	Conceptual	3	1/1/2021	6/30/2021		\$0.00	\$25,000 first year, less after	No	Yes	2021
Tucannon MSA	Restoration	35-UT	Project Area 20 Riparian Easement	Conceptual	1	12/18/2011	12/31/2018			II	No	Yes	2016
Tucannon MSA	Restoration	35-TU-CC 12-20-2019.1	Cummins Creek LWD BDA and PALS	Conceptual	3	12/1/2020	12/31/2024		\$200,000.00	I	Yes	Yes	
Tucannon MSA	Restoration	35-TU 35-00480	Project Area 31 B - Floodplain and Side Channel Connectivity	Conceptual	3	1/1/2016	12/31/2025			II	No	Yes	2018

Tucan non MSA	Restoration	35-TU 35-004 78	Project Area 31 A - Floodplain and Side Channel Connectivity	Conceptual	3	1/1/2016	12/31/2024			II	No	Yes	2018
Tucan non MSA	Restoration	35-TU 35-004 61	Project Area 27/28.1	Conceptual	3	12/18/2011	12/31/2018		\$600,000.00	II	Yes	Yes	2015
Tucan non MSA	Restoration	35-TU 35-004 60	Project Area 25 Protection and Restoration	Conceptual	3	12/18/2011	12/31/2025		\$400,000.00	II	No	Yes	2016
Tucan non MSA	Restoration	35-TU 35-004 58	Project Area 18 Tucannon Rd. Bridge	Conceptual	3	12/18/2011	12/31/2023			II	Yes	Yes	2016
Tucan non MSA	Restoration	35-TU 35-004 57	Project Area 16 Last Resort Community	Conceptual	3	12/18/2011	12/31/2022		\$500,000.00	III	YES	Yes	2018
Tucan non MSA	Restoration	35-TU 35-004 55	Project Area 6 Floodplain Connectivity and Channel Complexity	Conceptual	3	12/18/2011	12/31/2026	Del Groat	\$500,000.00	II	No	Yes	2020
Tucan non mSA	Restoration	35-TU 35-002 52	Kellogg Creek Head cut (Fish Passage Barrier)	Conceptual	2	1/1/2016	12/31/2025			I	No	Yes	2016

Tucan non MSA	Restoration	35-TU 35-001 11	Project Area 2 In-stream Habitat Complexity Cow Camp	Conceptual	3	1/1/2010	12/31/2025		\$200,000.00	II	Yes	Yes	2020
Tucan non mSA	Restoration	35-004 87	Project Area 39 A-C Levee Set Back Starbuck	Conceptual	1	1/15/2016	1/1/2019			III	No	Yes	2018
Tucan non MSA/mSA	Restoration	35-002 98	Tucannon River Noxious Weed Control (Indigo Bush)	Conceptual	1	2/26/2009	12/30/2016		\$250,000.00	250000	Yes	Yes	2015
WRIA 32	Restoration	32-TU	Starbuck FbD Concept	Conceptual	3				\$0.00				
WRIA 35	Restoration	35-000 82	CCRP Program	Conceptual	1	1/1/2000	6/30/2015	Duane Bartels, Terry Bruegman		N/A			
WRIA 35	Restoration	35-000 77	WRIA 35 Relocation of Live-Stock Feed Lots out of Sensitive Riparian Areas	Conceptual	1	1/1/2007	6/30/2011			I	yes	yes	
WRIA 35	Planning	A35-004 00	Stream Flow Assessment WRIA 35	Conceptual	1	1/31/2005	12/31/2014			II			
WRIA 35	Planning	A35-003 97	Assess Ground Water Availability for Source Substitution	Conceptual	1	1/3/2005	12/31/2014			I			
WRIA 35	Planning	A35-003 49	Assess Effects of Nonnative Predators on Snake River Migrating Salmonids	Conceptual	1	1/1/2009	12/31/2014			I			
WRIA 35	Planning	A35-003 21	Reduce Ephemeral Sources Routing Fine Sediment in WRIA 35 Streams	Conceptual	1	1/3/2005	12/31/2014			II			

WRIA 35	Monitoring	M35-TU	Tucannon Steelhead Telemetry Study	Conceptual	3	6/30/2021	6/30/2025		\$0.00	?????	Yes	Yes	2021
WRIA 35	Monitoring	M35-SR	Predation Monitoring in the Lower Monumental Pool	Conceptual	3	3/15/2020	12/30/2021		\$0.00	?????	???	Yes	2020
WRIA 35	Monitoring	M35-GC	George Creek PIT Array and Juvenile Steelhead Tagging	Conceptual	3	6/30/2020	12/30/2020		\$0.00	\$55,000 first year, less after	Yes	Yes	2020
WRIA 35	Monitoring	M35-AP	Alpowa Creek PIT Array and Juvenile Steelhead Tagging	Conceptual	3	6/30/2020	12/30/2020		\$0.00	\$30,000 first year, less after	No	Yes	2020
WRIA 35	Monitoring	M35-AC	Life Cycle Model of Asotin Creek Steelhead	Conceptual	3	6/30/2022	12/31/2027		\$0.00	\$50,000 / year	No	Yes	2022
WRIA 35	Monitoring	M35-AC	Asotin Creek Telemetry	Conceptual	3	6/30/2021	6/30/2025		\$0.00	?????	Yes	Yes	2021
Walla Walla MSA	Restoration	32-WW12-31-2019.4	Bridge to Bridge - Channel Restoration	Conceptual	3				\$0.00	II	Yes	Yes	2014
WRIA 32	Restoration	32-YH	Yellowhawk FbD Concepts	Conceptual	3				\$0.00				
WRIA 32	Acquisition &	32-001	Palouse Prairie Protection	Conceptual	2	1/19/2016	1/15/2019	Dave Karl		I	No	Yes	

	Restoration	61											
WRIA 32	Restoration	32-TO	Dayton FbD Concepts	Conceptual	3				\$0.00				
WRIA 32	Restoration	32-MT	Waitsburg FbD Concepts	Conceptual	3				\$0.00				
WRIA 32	Restoration	32-LTO	Lower Touchet FbD Concepts	Conceptual	3				\$0.00				
WRIA 32	Restoration	32-00263	Irrigation Efficiency Studies Implementation	Conceptual	1	1/1/2013	1/1/2016			I	Yes	Yes	
WRIA 32	Planning	A32-00408	Assess stream Flow in WRIA 32	Conceptual	1	1/31/2005	12/31/2014			I			
WRIA 32	Planning	A32-00183	WRIA 32 nutrient enhancement program	Conceptual	2	6/6/2008	1/1/2011	Brian Burns	\$20,000.00	2000			
WRIA 32	Monitoring	M32-WW	Predation Monitoring in the Lower Touchet and Walla Walla River	Conceptual	3	1/1/2021	9/30/2023		\$0.00	?????	???	Yes	2021
WRIA 32	Monitoring	M32-TO	Lower Touchet River PIT Tag Array	Conceptual	3	1/1/2020	12/31/2030		\$0.00	\$100,000, less after first year	Yes	Yes	2020
WRIA 32	Monitoring	M32-TO	Life Cycle Model of Touchet River Steelhead	Conceptual	3	6/30/2022	12/31/2027		\$0.00	\$100,000 / year	No	Yes	2022
WRIA 32	Monitoring	M32-MC	Mill Creek Smolt Trap Monitoring	Conceptual	3	9/1/2020	12/31/2030		\$0.00	\$100,000 / year	Yes	Yes	2020
WRIA 32	Monitoring	M32-MC	Mill Creek PIT Tag Arrays	Conceptual	3	9/1/2020	12/31/2030		\$0.00	\$80,000, less after	Yes	Yes	2020

										first year			
WRIA 32	Monitoring	M32-MC	Adult Video Monitoring in Mill Creek	Conceptual	3	9/1/2020	12/31/2030		\$0.00	\$40,000, less after first year?	Yes	Yes	2020
Walla Walla MSA	Restoration	32-00222	Reduce Out of Stream Diversions from Cottonwood Creek	Conceptual	1	1/1/2009	6/30/2011	Matt Rajnus, Rick Jones, Larry Hooker, Dave Karl		I	No	Yes	
WRIA 35	Monitoring	M32-GR	Lower Grande Ronde PIT Tag Array	Conceptual	3	4/1/2021	12/30/2021		\$0.00	\$175,000 first year, \$15,000 O&M cost after	No	Yes	2021
Touchet Middle MSA	Restoration	32-00275	South Fork Coppei Creek Stream Fords	Conceptual	1	1/1/2016	12/31/2025	Rick Jones, Brian Burns, Larry Hooker		I	No	Yes	2016
Touchet Upper MSA	Restoration	32-UT-SF 32-00574	Floodplain Channel Connectivity (Rainwater South Fork Touchet)	Conceptual	3	1/16/2012	12/31/2025		\$700,000.00	300000	Yes	Yes	2014
Touchet Upper MSA	Restoration	32-UT, 18-208	Touchet River Water Diversion/Adult Fish Ladder	Conceptual	3	12/8/2018	12/8/2021		\$181,512.00	II \$200,000 total	Yes	Yes	2020

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Touchet Upper MSA	Restoration	32-TO	East End Irrigation Project Implementation	Conceptual	3				\$0.00				
Touchet Upper MSA	Restoration	32-00557	Upper Touchet River Fish Screen	Conceptual	1	1/1/2006	1/1/2016	Terry Bruegman		I	Yes	Yes	Ongoing
Touchet Upper MSA	Restoration	32-00472	Touchet River Riparian and Floodplain Restoration	Conceptual	1	1/1/2010	12/31/2025			II	Yes	Yes	2015
Alkali Creek mSA	Restoration	35-af	Head Cut Barrier Removal (Alkali Creek)	Conceptual	1	1/1/2016	1/15/2023			II	Yes	Yes	Long Range
Touchet Upper MSA	Restoration	32-00246	Replace Stream Fords (Tamarack Trail)	Conceptual	1	1/1/2016	1/1/2019	Del Groat		I	No	Yes	2016
Touchet Upper MSA	Restoration	32-00178	Reduce Point Source Inputs Into NF Touchet	Conceptual	2	1/19/2016	1/15/2019	Dave Karl, Terry Bruegman		II	No	Yes	2016
Touchet Upper MSA	Planning	A32-00279	Irrigation Efficiency Assessment Upper Touchet River	Conceptual	1	1/31/2005	12/31/2014			I			
Touchet Middle MSA	Restoration	32-MT-CC 32-00236	Upland BMPs Coppei Creek	Conceptual	1	1/2/2009	12/31/2025	Larry Hooker, Rick Jones		I	Yes	Yes	Ongoing

Touchet Middle MSA	Restoration	32-00586	Japanese Knotweed Control Waitsburg City Levee	Conceptual	1	1/15/2013	1/19/2016	Mike Denny		I	Yes	Yes	2013
Touchet Upper MSA	Restoration	32-UT-SF-32-00574	Floodplain Channel Connectivity (Rainwater South Fork Touchet)	Conceptual	3	1/16/2012	12/31/2025		\$700,000.00	II	Yes	Yes	2015
Touchet Middle MSA	Restoration	32-00286	Whiskey Creek Buffer Project	Conceptual	2	1/1/2009	1/19/2016	Larry Hooker, Terry Bruegman		I	Yes	Yes	2014
Touchet Middle MSA	Restoration	32-00182	Touchet Valley Golf Course Irrigation Efficiency	Conceptual	2	1/1/2009	1/1/2016	Guy McCaw		II	Yes	Yes	2015
Touchet Middle MSA	Restoration	32-00238	Coppei Creek In-stream Habitat Complexity Projects	Conceptual	1	1/1/2013	12/31/2025	Larry Hooker		II	Yes	Yes	2015
Tucan non mSA	Restoration	35-00484	Project Area 36 Protection Above RV Park	Conceptual	1	1/15/2016	1/1/2019			II	No	Yes	2018
Touchet Middle MSA	Planning & Restoration	32-00168	Ephemeral Stream Sediment Reduction Projects (Touchet)	Conceptual	3	1/1/2009	12/31/2025	Rick Jones, Larry Hooker, Terry Bruegman	\$0.00	I	Yes	Yes	Ongoing
Walla Walla MSA	Restoration	32-00330	Restore River Reach-Last Chance to Frog Hollow	Conceptual	1	1/1/2009	1/19/2016	Larry Hooker		III	Yes	Yes	
Touchet Middle MSA	Planning	A32-00436	Waitsburg Instream Flow Enhancement Assessment	Conceptual	1	1/1/2009	6/6/2011			I			

Tenmile Creek mSA	Restoration	TM-06_PA-76	Tenmile Creek Reach 6 Project Area 76	Conceptual	1								
Tenmile Creek mSA	Restoration	TM-05_PA-75	Tenmile Creek Reach 5 Project Area 75	Conceptual	1								
Tenmile Creek mSA	Restoration	TM-04_PA-74	Tenmile Creek Reach 4 Project Area 74	Conceptual	1								
Tenmile Creek mSA	Restoration	TM-03_PA-73	Tenmile Creek Reach 3 Project Area 73	Conceptual	1								
Tenmile Creek mSA	Restoration	TM-03_PA-72	Tenmile Creek Reach 3 Project Area 72	Conceptual	1								
Tenmile Creek mSA	Restoration	TM-02_PA-71	Tenmile Creek Reach 2 Project Area 71	Conceptual	1								
Tenmile Creek mSA	Restoration	TM-02_PA-70	Tenmile Creek Reach 2 Project Area 70	Conceptual	1								
Touchet Middle MSA	Restoration	32-00310	Touchet River Dike Setback Design Construct (Lindy Levee)	Conceptual	1	1/19/2016	1/15/2019	Dave Karl		II	No	Yes	2016
Tucan non MSA	Restoration	35-00452	Project Area 21 LWD and Levee Set Back	Conceptual	1	12/18/2011	12/31/2018			II	Yes	Yes	2015
Tucan non	Restoration	35-004	Project Area 35 LWD/Floodplain	Conceptual	1	1/15/2016	1/1/2019			II	No	Yes	2018

mSA		83											
Tucan non MSA	Restoration	35-00481	Project Area 33 LWD Placement HWY 12 to Territorial Rd	Conceptual	1	1/15/2013	1/1/2019			II	Yes	Yes	2022
Tucan non MSA	Restoration	35-00479	Project Area 32 HWY 12 Br Upstream Levee Setback	Conceptual	1	1/1/2016	1/1/2019			II	Yes	Yes	2020
Tucan non MSA	Restoration	35-00477	Project Area 30 Levee Removal and Set Back (below Enrich Bridge)	Conceptual	1	1/1/2016			\$600,000.00	II	No	Yes	2018
Tucan non MSA	Restoration	35-00476	Project Area 29 Floodplain and LWD Above Enrich Bridge	Conceptual	1	1/1/2016	1/1/2019			II	No	Yes	2018
Tucan non MSA	Restoration	35-00456	Project Area 9 Big Four Lake Modification and LWD	Conceptual	1	12/18/2011	12/31/2018			III	Yes	Yes	2021
Tucan non MSA	Restoration	35-00451	Project Area 8 Curl Lake Levee Set Back	Conceptual	1	12/11/2011	12/31/2018			II	Yes	Yes	2016
Tucan non MSA	Restoration	35-00443	Project Area 5 Camp Wooten Road Relocation Floodplain Expansion Project	Conceptual	1	1/1/2016		Dave Karl	\$800,000.00	II	No	Yes	2022
Tucan non MSA	Restoration	35-00409	Tucannon River Power Line Right of Way	Conceptual	1	2/27/2009	1/1/2016			III	Yes	Yes	?
Tucan non MSA	Restoration	35-00191	Project Area 4 Camp Wooten River Dike Set Back	Conceptual	1	1/1/2016	1/1/2019		\$1,000,000.00	1000000	No	Yes	2022
Tucan non MSA	Restoration	35-00156	Project Area 7 USFS Road Relocate Out of Floodplain	Conceptual	1	1/1/2010	1/1/2025		\$1,200,000.00	500000	No	Yes	2024

Tucan non mSA	Restoration	35-00074	Smith Hollow Barrier Prevention	Conceptual	2	1/1/2016	1/1/2019	Terry Bruegman		I	No	Yes	2016
Tucan non MSA	Restoration	35-00071	Small Tucannon River Tributary LWD Placement	Conceptual	1	1/1/2016	1/1/2019	Del Groat, Dave Karl	\$200,000.00	I	Yes	Yes	2019
Tucan non MSA	Restoration	35 LT 35-00466	Reach 2 Project Area 41-45	Conceptual	3	1/1/2012	12/31/2026	Terry Bruegman	\$2,000,000.00	III	Yes	Yes	2014
Tucan non MSA	Planning & Restoration	35-TU 12-23-2019	Project Area 10 Adaptive Management	Conceptual	3	1/1/2020	12/1/2025	Dave Karl	\$0.00	II			N/A
Tucan non MSA	Restoration	35-00473	Project Area 12 Deer Lake Reconfiguration	Conceptual	1	1/1/2016	1/1/2019		\$60,000.00	III	Yes	Yes	2020-2024
Tucan non mSA	Planning & Restoration	35-LT 12-23-2019.2	Tucanon Dam Fish Passage Update	Conceptual	3	1/1/2019	1/1/2026		\$0.00	I	Yes	Yes	2020
Tucan non mSA	Planning & Acquisition	35-LT 12-23-2019.3	Reach 2 Project Area 40 Through 45 Protection	Conceptual	3	1/1/2022	1/1/2024		\$0.00	III	Yes	Yes	2019
Tucan non MSA	Restoration	35_TU 12-19-201	Project Area 27a Channel Complexity and Floodplain Connectivity	Conceptual	3	12/1/2020	12/31/2026		\$500,000.00	II			2023

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Touch et Upper MSA	Restoration	32-UT-NF 32-004 75 (14-189)	N Touchet Levee Setback and Habitat Improvement	Dormant	3	12/6/2014	12/31/2020			II	Yes	Yes	2015
Touch et Lower	Restoration	32-TOU	Touchet Mainstem Gailey Property Phase 1 Restoration	Planned		9/1/2022	8/31/2025		\$500,000.00				
Touch et River	Planning	32-TOU	Touchet River PA YYY Design	Planned	1	9/1/2022	8/31/2024		\$150,000.00	100000	Yes	Yes	2022
Touch et River	Restoration	32-TOU	Touchet River PA XXX Implementation	Planned	1	9/1/2022	8/31/2025		\$500,000.00	500000	Yes	Yes	2022
Touch et River	Planning	32-TOU	Touchet River PA XXX Design	Planned	1	9/2/2021	12/31/2022		\$150,000.00	100000	Yes	Yes	2021
Touch et Middle MSA	Restoration	32-TOU	Touchet River Mile 42 Restoration	Planned	2	9/1/2021	8/31/2024		\$500,000.00	I-II	Yes	Yes	2021
Touch et Middle MSA	Restoration	32-TOU	Touchet River Mainstem Project 14 Restoration	Planned		9/1/2022	8/31/2025		\$500,000.00				
Walla Walla MSA	Planning	32-WW	Walla Walla River Restoration Design RM 30-25	Planned	2	9/1/2022	8/31/2024		\$150,000.00	I-II	Yes	Yes	44197

Touch et Middle MSA	Planni ng	32-TOU	Touchet River Mainstem Project 10 Final Designs	Planned		9/1/2022	8/31/2025		\$60,000.00				
Touch et Lower	Planni ng	32-TOU	Touchet Mainstem Gailey Property Phase 2 Design	Planned		9/1/2022	8/31/2024		\$150,000.00				
Touch et Lower	Planni ng	32-TOU	Touchet Mainstem Gailey Property Phase 1 Design	Planned		9/1/2021	8/31/2023		\$150,000.00				
Steptoe mSA	Restor ation	35-STP	Steptoe Creek PALS Phase II	Planned		9/1/2022	8/31/2025		\$47,000.00				
Mill Creek MSA	Acquis ition & Restor ation	32-MC	Smyth-Paup Mill Creek Habitat Improvements	Planned		9/2/2022	9/1/2024		\$500,000.00				
Touch et Middle MSA	Planni ng	32-TOU	Touchet River Mainstem Project 14 Design	Planned		9/1/2022	8/31/2024		\$150,000.00				
Walla Walla MSA	Planni ng	32-WW	Walla Walla River Frenchtown Floodplain Reconnection and Habitat Improvements	Planned		9/1/2021	8/31/2023		\$190,000.00				
Walla Walla MSA	Restor ation	32-WW	Walla Walla River Bridge to Bridge Phase 4	Planned		9/1/2022	8/31/2025		\$500,000.00				
Walla Walla MSA	Restor ation	32-WW	Walla Walla River Bridge to Bridge Phase 3	Planned		9/1/2021	8/31/2024		\$300,000.00				
Lower Tucannon River mSA	Restor ation	35-MT	Tucannon PA 44 Floodplain Connectivity and Channel Reconfiguration	Planned		9/1/2022	8/31/2025		\$300,000.00				

Tucannon MSA	Restoration	35-TU	Tucannon PA 17/18 Floodplain & Complexity	Planned		9/1/2022	8/31/2025		\$400,000.00				
Pataha Creek MSA	Restoration	35-PA	Pataha Creek Riparian Planting	Planned		9/1/2021	8/31/2024		\$50,000.00				
Asotin MSA	Restoration	35-AS	Asotin PA 06 Restoration	Planned		9/1/2022	8/31/2025		\$150,000.00				
Lower Tucannon River mSA	Restoration	35-MT	Tucannon PA38 Restoration	Planned		9/1/2022	8/31/2025		\$350,000.00				
Tucannon MSA	Restoration	35-TU	Tucannon PA27/28.1 Add Function and Complexity: Phase II	Planned		9/1/2022	8/31/2025		\$200,000.00				
Lower Tucannon River mSA	Planning	35-MT	Tucannon PA 44 Floodplain Connectivity and Channel Reconfiguration	Planned		9/1/2022	8/31/2024		\$100,000.00				
Tucannon MSA	Planning	35-TU	Tucannon PA 32 Phase II Design	Planned		9/1/2022	8/31/2024		\$70,000.00				
Touchet River	Monitoring	32-TOU	Touchet River Smolt Trap Monitoring 3	Planned		9/1/2022	8/31/2025		\$80,000.00				
Asotin MSA	Planning	35-AS	Asotin PA 08 Design	Planned		9/1/2022	8/31/2024		\$100,000.00				
Walla Walla MSA	Planning & Restoration	32-YH	Yellowhawk Creek Fish Passage Improvements - Adkins and Stimmel Dams	Planned		9/1/2021	8/31/2023		\$50,000.00				

Walla Walla MSA	Restoration	32-WWB	Cottonwood Creek Habitat Improvement Phase 2	Planned	2	9/1/2021	8/31/2024		\$150,000.00		Yes	Yes	1/1/2022 estimated
Tucannon MSA	Restoration	35-TU	Tucannon PA 34.1 Channel Complexity and Channel Connectivity	Planned		9/1/2022	8/31/2025		\$350,000.00				
Alpowa MSA	Restoration	35-AL	Alpowa PALS	Planned		9/1/2021	8/31/2024		\$97,500.00				
Alpowa MSA	Restoration	35-AL	Alpowa Riparian Planting	Planned		9/1/2022	8/31/2025		\$44,000.00				
Couse Creek mSA	Restoration	35-CO	Couse PA 78 Restoration	Planned		9/1/2022	8/31/2025		\$150,000.00				
Tucannon MSA	Restoration	35-CMN	Cummins Creek Delta Channel Complexity	Planned		9/1/2022	8/31/2025		\$150,000.00				
George Creek MSA	Planning	35-GE	George Creek PA 36 Design	Planned		9/1/2022	8/31/2024		\$100,000.00				
Grande Ronde MSA	Planning	35-GR	Grande Ronde PA ###	Planned		9/1/2022	8/31/2024		\$150,000.00				
Mill Creek MSA	Restoration	32-MC	Mill Creek Passage - 6th Ave Extension	Planned		9/1/2022	8/31/2025		\$100,000.00				
Mill Creek MSA	Restoration	32-MC	Mill Creek Passage - Park to Roosevelt	Planned		9/1/2021	8/31/2024		\$200,000.00				
Tucannon MSA	Restoration	35-TU 20-1048	Tumalum Creek PALS	Active	1	10/1/2020	9/30/2023		\$42,500.00	I	Yes	Yes	2020

Touchet Upper MSA	Restoration	32-UT-NF-20-1050	North Touchet RM 2.0-2.7 Restoration	Active	1	10/1/2020	9/30/2023		\$2,100,000.00	2 mil, 500k SRFB, rest FbD/BPA	Yes	Yes	2021
WRIA 32	Monitoring	32-TO	Touchet River Smolt Trap Monitoring 1	Active	1	10/1/2020	9/30/2023		\$155,000.00	\$100,000 / year	Yes	Yes	2020
Couse Creek mSA	Restoration	CO-01_PA-78	Couse Creek Reach 1 Project Area 78	Planned	1	9/1/2020	9/30/2022			I	Yes	Yes	2020
Alpowa Creek MSA	Restoration	35-AL-20-1045	Alpowa PALS Phase 3 Restoration	Active	1	10/1/2020	9/30/2023	Brad Johnson, Duane Bartels	\$98,020.00	103000	Yes	Yes	2020
Couse Creek mSA	Restoration	35-CO-01_PA-79-20-1037	Couse Cr Instream Habitat PA 79	Active	3	12/15/2020	1/2/2024	Megan Stewart	\$80,000.00	I-II	Yes	No	2020
Tucannon MSA	Planning	35-TU-20-1052	Tucannon PA 34.1-34.2 Design	Active	1	10/1/2020	9/30/2022		\$46,938.00				
Tucannon MSA	Restoration	35-00112; 19-1509	Tumalum Passage and Habitat Enhancement	Active	3	9/1/2020	9/30/2023		\$144,162.00	II	Yes	Yes	2020

Grand Ronde MSA	Planni ng	35- GR- CR 20- 105 5	Cougar Creek Fish Passage Design	Active	3	9/1/202 0	8/31/20 22		\$100,000.00	I	Yes	No	2020
Tucan non mSA	Restor ation	35- 004 82	Project Area 34 LWD and Levee Set Back Pataha Confluence	Planned	1	9/1/202 0	9/30/20 22			II	Yes	Yes	2017
Touch et Middl e MSA	Planni ng	32- MT 20- 103 5	Touchet River Mile 42 Restoration Project Design	Active	3	12/14/2 020	1/2/202 3		\$107,000.00	I			
Patah a Creek MSA	Restor ation	35- PA, 20- 104 7	Upper Pataha Creek PALS Restoration	Active	1	10/1/20 20	9/30/20 23		\$150,000.00	I	Yes	No	2020
Grand Rond e MSA	Restor ation	21- 100 6	Grande Ronde 4-0 Restoration	Proposed		9/30/20 21	9/30/20 24	Asotin Conservation District	\$400,000	\$620, 000	Yes	Yes	2021
Grand Rond e MSA	Restor ation	21- 100 5	Cougar Creek Culvert Restoration	Proposed		9/30/20 21	9/30/20 24	Asotin Conservation District	\$200,000	\$685, 000	Yes	Yes	2021
Tucan non mSA	Planni ng	TBD	Tucannon PA 38 Design	Planned		9/30/20 21	9/30/20 24	Columbia Conservation District	\$100,000	\$126, 000	Yes	Yes	2021
Touch et Middl e MSA	Planni ng	21- 101 2	Touchet MS-15 Design	Proposed		9/30/20 21	9/30/20 24	Columbia Conservation District	\$120,000	\$150, 000	Yes	Yes	2021

Touchet Middle MSA	Restoration	21-1011	Touchet MS-10 Restoration	Proposed		9/30/2021	9/30/2024	Columbia Conservation District	\$280,000	\$350,000	Yes	Yes	2021
Touchet Upper MSA	Restoration	21-1009	North Touchet RM Phase 4 Restoration	Proposed		9/30/2021	9/30/2024	Confederated Tribes of the Umatilla Indian Reservation	\$250,000	\$300,000	Yes	Yes	2021
Pataha Creek MSA	Restoration	21-1008	Pataha Creek PALS	Proposed		9/30/2021	9/30/2024	Pomeroy Conservation District	\$85,000	\$98,000	Yes	Yes	2021
Tucan non MSA	Restoration	21-1007	Tumalum Creek PALS	Proposed		9/30/2021	9/30/2024	Pomeroy Conservation District	\$65,000	\$75,000	Yes	Yes	2021
Touchet Middle MSA	Planning	21-1016	Coppei Creek Project Area C-7 Design	Proposed		9/30/2021	9/30/2024	Walla Walla County Conservation District	\$50,000	\$55,000	Yes	Yes	2021
Touchet Middle MSA	Planning	21-1015	Touchet River MS-1 Design	Proposed		9/30/2021	9/30/2024	Walla Walla County Conservation District	\$90,000	\$100,000	Yes	Yes	2021
Mill Creek MSA	Planning	21-1013	Lower Mill Creek Design RM1.75	Proposed		9/30/2021	9/30/2024	Walla Walla County Conservation District	\$100,000	\$100,000	Yes	Yes	2021
Touchet Middle MSA	Planning	21-1014	Touchet River MS-9 Design	Proposed		9/30/2021	9/30/2024	Walla Walla County Conservation District	\$100,000	\$110,000	Yes	Yes	2021
Walla Walla	Restoration	21-100	Walla Walla River RM 35.5 Restoration	Proposed		9/30/2021	9/30/2024	Walla Walla County	\$400,000	\$620,000	Yes	Yes	2021

MSA		4						Conservation District					
Mill Creek MSA	Planning	21-1010	Mill Creek-Gose Street	Proposed		9/30/2021	9/30/2024	Washington Department of Fish and Wildlife	\$200,000	\$230,000	Yes	Yes	2021
WRIA 32	Monitoring	21-1017	Touchet River Smolt Trap Monitoring	Proposed		9/30/2021	9/30/2024	Washington Department of Fish and Wildlife	\$80,000	\$155,000	Yes	Yes	2021

**SNAKE RIVER SALMON RECOVERY REGION
PROVISIONAL WORK PLAN**

Section 2

HABITAT ASSESSMENT

The following Habitat Assessment section is comprised of habitat assessment projects in WRIA 32, 33 & 35 watersheds. Projects listed assess habitat condition to better understand a level 4 uncertainties described in the Snake River Salmon Recovery Plan. The following project table is organized alphabetically by MSA/mSA and information is provided including; HWS Number (Habitat Work Schedule <http://hws.ekosystem.us/>), Project Name, Location, Status, Cost Range, and Start and End Date. The HWS Code is a code number for the Habitat Work Schedule where detailed information on proposed projects can be viewed by clicking the hyperlink in electronic copies of this document. The Project Name refers to the potential project's name. Location provides the MSA/mSA or tributary where project is being conducted. The column titled status indicates whether a project is conceptual, has been proposed for funding, has received funding or is actively being implemented. The column titled Cost Range identifies the relative cost range for the project. Project cost has been broken into three categories respectively from low cost to high; "I" will represent projects costing < \$100,000, "II" from \$100,000 - \$500,000, and III > \$500,000. The columns labeled Start Date/End Date indicate the time when the project entered the work plan and its anticipated to be completed. For more information regarding watershed MSA/mSA and priority reaches refer to the descriptions provided in Section 1.

WRIA 32, 33 & 35 Priority Assessments

The following table lists general WRIA wide priority assessments, along with specific actions for individual projects. To view a more detailed project description click the hyperlink under the HWS column.

Number	Name	Watershed	Priority	Status	Start Date	End Date	Project Contact	Sponsor	Estimated Budget	3 Yr Priority (Yes or No)	3-10 Yr Priority (Y or No)	Proposed Start Date	Rational
A00-00006	Assessment of River Confinement in Priority Areas	Both WRIAs	1	Conceptual	1/29/10	12/31/14			11				
A00-00422	Acquire LIDAR and Orthographic Images to Measure Habitat Parameters	Both WRIAs	1	Conceptual	1/29/08	12/31/14			1				
A32-00424	Assess The Effect of Land Development	Both WRIAs	1	Conceptual	1/3/05	12/31/14			1				
A35-00169	Regionally Assess the Use of Agricultural Chemicals on Upland	Both WRIAs	2	Conceptual	1/1/09	6/6/11			1				

	Areas												
A32-00169	Assess Feasibility of Mill Creek Low Flow Channel	Mill Creek MSA	1	Conceptual	1/1/09	6/6/11		Tri-State Steelheaders Inc, Umatilla Confederated Tribe, US Army Corps of Engineers	I				
A32-00551	Assess Storm Water Impacts (Mill Creek)	Mill Creek MSA	2	Conceptual	1/1/09	6/6/11			I				
A32-00552	City of Walla Walla Limnology Study	Mill Creek MSA	2	Conceptual	1/1/09	6/6/11			I				
A32-00553	City of Walla Walla Return Water	Mill Creek MSA	2	Conceptual	1/1/09	6/6/11			I				
A35-00411	Near Shore Assessment WRIA 35	Snake River MSA	1	Conceptual	1/19/10	12/31/14			II				
A32-00436	Waitsburg Instream Flow Enhancement Assessment	Touchet Middel MSA	1	Conceptual	1/1/09	6/6/11		Washington Department of Ecology, Washington Department of Fish and Wildlife, Walla Walla Co Cons Dist	I				

A32-00279	Irrigation Efficiency Assessment Upper Touchet River	Touchet Upper MSA	1	Conceptual	1/31/05	12/31/14			I				
A35-00047	Tucannon Cobble Embeddedness and Percent Fines Project	Tucannon MSA/mSA	1	Completed	7/1/08	12/31/09	Terry Bruegman	Columbia Conservation Dist, US Forest Service	9,000				
A35-00246	Tucannon River Sediment Compaction Assessment (Frozen Core Method)	Tucannon MSA/mSA	1	Conceptual	1/7/08	12/31/14			I				
A35-00247	Tucannon River LWD Assessment	Tucannon MSA/mSA	1	Conceptual	1/5/09	12/31/14			I				
A32-00183	WRIA 32 nutrient enhancement program	WRIA 32	2	Conceptual	6/6/08	1/1/11	Brian Burns	Tri-State Steelheaders Inc	20,000				
A32-00408	Assess stream Flow in WRIA 32	WRIA 32	1	Conceptual	1/31/05	12/31/14			I				
A35-00321	Reduce Ephemeral	WRIA 35	1	Conceptual	1/3/05	12/31/14			II				

	Sources Routing Fine Sediment in WRIA 35 Streams												
A35-00349	Assess Effects of Nonnative Predators on Snake River Migrating Salmonids	WRIA 35	1	Conceptual	1/1/09	12/31/14			I				
A35-00397	Assess Ground Water Availability for Source Substitution	WRIA 35	1	Conceptual	1/3/05	12/31/14			I				
A35-00400	Stream Flow Assessment WRIA 35	WRIA 35	1	Conceptual	1/31/05	12/31/14			II				
A32-TB	Touchet Conceptual Restoration Plan	Touchet MSA, Patit mSA	1	Active	1/1/18	1/1/20	Terry Bruegman, Justin Pearson	CCD	II				
	Walla Walla Conceptual Restoration Plan	WW MSA, Mill Creek MSA, Touchet Middle MSA, Dry Creek mSA	1	Proposed	1/1/20	1/1/22	Renee Hadley	WWCCD	II				

	Tucannon Conceptual Restoration Plan Update	Tucannon MSA/mSA	1	Active	3/1/18	3/1/20	Terry Bruegman, Justin Pearson	CCD	I				
Monitoring	Life Cycle Model of Tucannon Spring Chinook and Steelhead	WRIA 35	1	Partially Completed	9/1/20	12/30/24	Ethan Crawford, Jeremy Cram	Washington Department of Fish and Wildlife	\$70,000 / year	Yes	Yes	2020	Fill data gap on overwinter survival and distribution for Life Cycle Modeling effort
Monitoring	Tucannon Mobile PIT Detection (LCM Additional Work)	WRIA 35	1	Partially Completed	12/30/20	6/30/25	Ethan Crawford, Jeremy Cram	Washington Department of Fish and Wildlife	\$40,000 / year	Yes	Yes	2020	Additional data to compliment Tucannon Life Cycle Project
Monitoring	Tucannon Steelhead Radio Telemetry Study	WRIA 35	1	Conceptual	6/30/21	6/30/25	Jeremy Trump, Joe Bumgarner	Washington Department of Fish and Wildlife	?????	Yes	Yes	2021	Monitoring Project - Steelhead overshoot - determine mechanism of overshoot

Monitoring	Steelhead Smolt Monitoring and PIT Tagging on Mill Creek	WRIA 32	1	Conceptual	9/1/20	12/31/30	?????	Washington Department of Fish and Wildlife	\$100,000 / year	Yes	Yes	2020	Population status and productivity measures for Mid-C Steelhead population
Monitoring	Mill Creek PIT Tag Arrays	WRIA 32	1	Conceptual	9/1/20	12/31/30	?????	Washington Department of Fish and Wildlife	\$80,000, less after first year	Yes	Yes	2020	Population status and productivity measures for Mid-C Steelhead population
Monitoring	Lower Touchet River PIT Tag Array	WRIA 32	1	Conceptual	1/1/20	12/31/30	Ethan Crawford, Jeremy Cram	Washington Department of Fish and Wildlife	\$100,000, less after first year	Yes	Yes	2020	Adult return and address juvenile mortality concerns (post Harvey Shaw Smolt Trap release).
Monitoring	Steelhead Smolt Monitoring and PIT Tagging on the Touchet River	WRIA 32	1	Currently Partially Funded, Proposed for SRFB 2020	9/1/20	12/31/30	Ethan Crawford/Joe Bumgarner	Washington Department of Fish and Wildlife	\$100,000 / year	Yes	Yes	2020	Population status and productivity measures for Mid-C Steelhead population

Monitoring	Adult Video Monitoring in Mill Creek	WRIA 32	1	Conceptual	9/1/20	12/31/30	Jeremy Trump???	Washington Department of Fish and Wildlife	\$40,000, less after first year?	Yes	Yes	2020	Population status and productivity measures for Mid-C Steelhead population
Monitoring	Life Cycle Model of Asotin Creek Steelhead	WRIA 35	2	Conceptual	6/30/22	12/31/27	Ethan Crawford, Jeremy Cram	Washington Department of Fish and Wildlife	\$50,000 / year	No	Yes	2022	Fill life cycle model data gaps for Asotin Creek steelhead
Monitoring	Life Cycle Model of Touchet River Steelhead	WRIA 32	2	Conceptual	6/30/22	12/31/27	Ethan Crawford, Jeremy Cram	Washington Department of Fish and Wildlife	\$100,000 / year	No	Yes	2022	Fill life cycle model data gaps for Touchet river steelhead
Monitoring	George Creek PIT Array and Juvenile Steelhead Tagging	WRIA 35	2	Conceptual	6/30/20	12/30/20	Ethan Crawford, Mike Herr	Washington Department of Fish and Wildlife	\$55,000 first year, less after	Yes	Yes	2020	Population/Status monitoring/life History Diverstiy for George Creek
Monitoring	Alpowa Creek PIT Array and Juvenile Steelhead Tagging	WRIA 35	2	Conceptual	6/30/20	12/30/20	Ethan Crawford, Mike Herr	Washington Department of Fish and Wildlife	\$30,000 first year, less after	No	Yes	2020	Population/Status monitoring, monitoring adult passage outside of weir operation, pool level effects on passage

Monitoring	Asotin Telemetry	WRIA 35	2	Conceptual	6/30/21	6/30/25	Ethan Crawford, Mike Herr	Washington Department of Fish and Wildlife	?????	Yes	Yes	2021	Fish holding at mouth of Asotin, more pressure, lots of hooks observed at weir.
Monitoring	Dry Creek Adult Trap/Weir	WRIA 32	3	Conceptual	1/1/21	6/30/21	Jeremy Trump, Ethan Crawford	Washington Department of Fish and Wildlife	\$25,000 first year, less after	No	Yes	2021	Population/Status monitoring - Recent Project on Dry Creek (Sean Taylor) to improve passage at bridge
Monitoring	Lower Grande Ronde PIT Tag Array	WRIA 35	3	Conceptual	4/1/21	12/30/21	Joe Bumgarner	Washington Department of Fish and Wildlife	\$175,000 first year, \$15,000 O&M cost after	No	Yes	2021	Monitoring Project - All Chinook/Steelhead Population Escapement Estimates into Grande Ronde from LGR Trapping/Tagging Program
Monitoring	Predation Monitoring in the Lower Monumental Pool	WRIA 35	2	Conceptual	3/15/20	12/30/21	Joe Bumgarner/Jeremy Trump	Washington Department of Fish and Wildlife	?????	???	Yes	2020	Suspected high predation on juvenile salmonids in the Lower Monumental Pool

Monitoring	Predation Monitoring in the Lower Touchet/Walla Walla River	WRIA 32	2	Conceptual	1/1/21	9/30/23	Joe Bumgarner/Ethan Crawford	Washington Department of Fish and Wildlife	????? ?	???	Yes	2021	Suspected high predation on juvenile steelhead in the Lower Touchet/Walla Walla Rivers
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