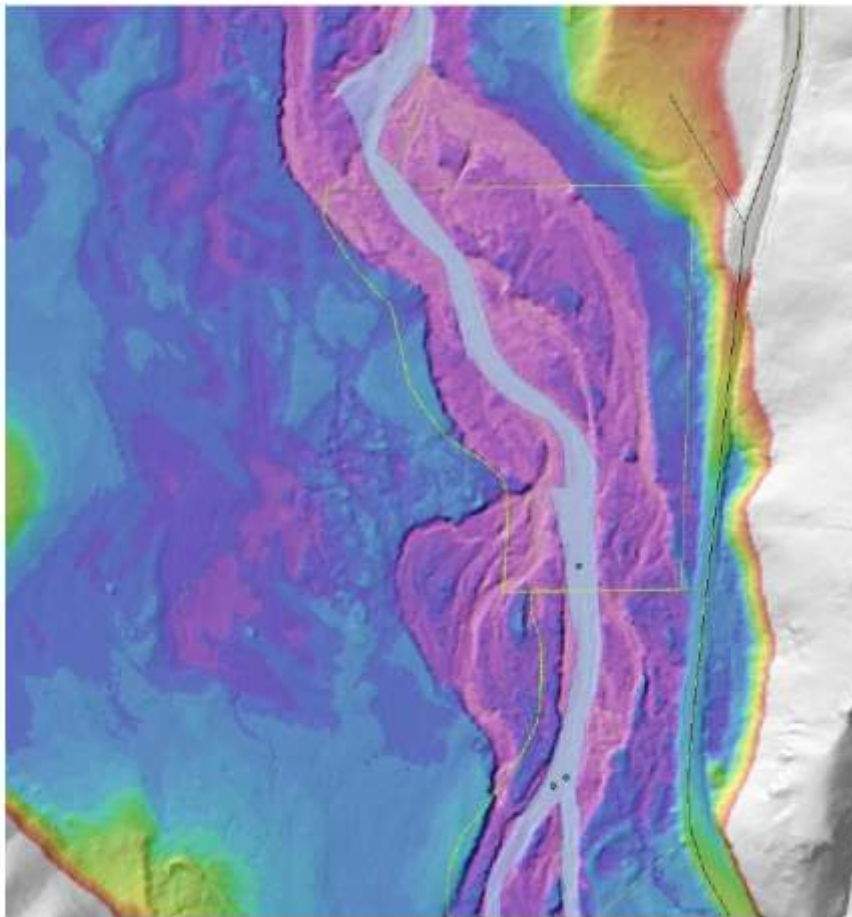




*Snake River  
Salmon Recovery*

# Snake River Salmon Recovery Region Provisional Work Plan 2013-2018



#### **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

Address: 410 B East Main  
Dayton, WA 99328

Phone: (509) 382-4115

# SNAKE RIVER SALMON REGION – PROVISIONAL WORK PLAN 2013-2018

## 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 2013-2018 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,	<a href="http://www.rco.wa.gov/srfb/board/board.htm">www.rco.wa.gov/srfb/board/board.htm</a>
Recreation and Conservation Funding Board	Washington State Recreation and conservation Office	Recreation and habitat conservation	<a href="http://www.rco.wa.gov/rcfb/board/board.htm">www.rco.wa.gov/rcfb/board/board.htm</a>
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	<a href="http://www.nmfs.noaa.gov/habitat/restoration/projects_programs/crp/partners/fishamerica.html">www.nmfs.noaa.gov/habitat/restoration/projects_programs/crp/partners/fishamerica.html</a>
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/vol-7.htm

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  
2013-2018**

**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, 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 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 entered the work plan 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 Document 2005).

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-Rangemangement 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	32-00339/ 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	32-00221/ 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	32-00388 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. Determination of project significance will be based on the perceived benefits to salmonids and be determined during the review process**.
Increase Habitat Complexity	32-00300/ 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	32-00389/ 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.
Increase Steam Channel Length	32-00390/ Restoration	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.
Restore Floodplain Connectivity & Function	32-00420/ Restoration	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 (ie. summer winter dike configurations) removing unneeded infrastructure from floodplains and preventing the needs for the creation of new dike systems..

## 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 Document 2005).

GENERAL PROJECT NAME	HWS CODE/ PROJECT TYPE	GOAL/ CONCEPT
Irrigation Efficiency	35-00397/ 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	35-00398/ 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	35-00399/ 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	35-00400/ 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	35-00401/ 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	35-00396/ 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	35-00402/ 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.
Live Stock Management	35-00403/ 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	35-00404/ 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	35-00405 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. Determination of project significance will be based on the perceived benefits to salmonids and be determined during the review process**.
Increase Habitat Complexity	35-00406/ 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	35-00389/ 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.
Channel Length & Sinuosity	35-00408/ 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	35-00407/ Protection	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 (ie. 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.*

*\*\*\*Monitoring may be an eligible project type, see the SRSRB application for 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.

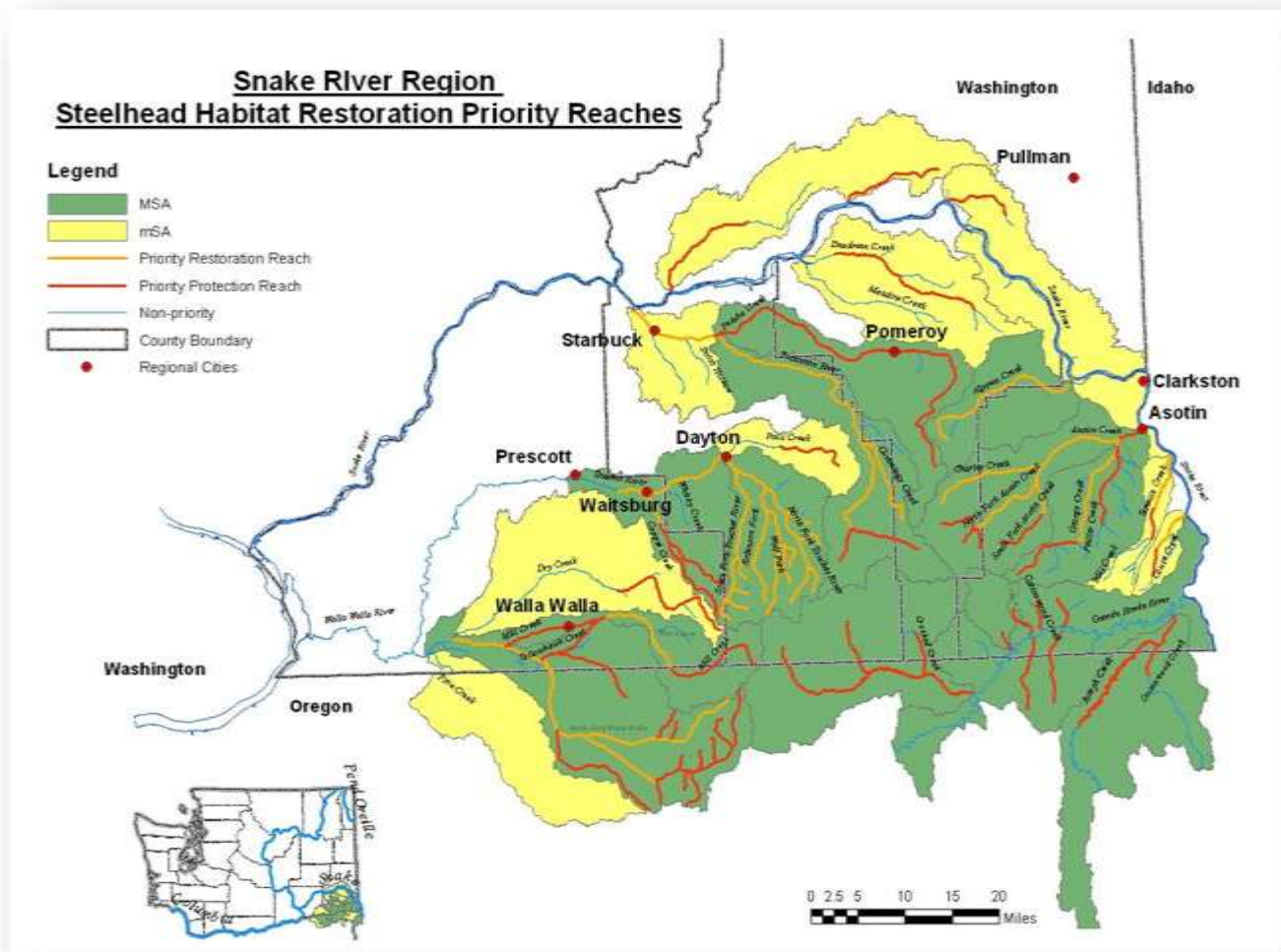




Figure 1. The Snake River Region MSA/mSA boundaries and priority reaches for Mid-Columbia and Snake River Seelhead (Snake River Salmon Recovery Plan 2005). Watersheds shaded green represent the major spawning areas (MSA) and the ones shaded yellow representing minor spawning areas (mSA) for salmon and/or 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.

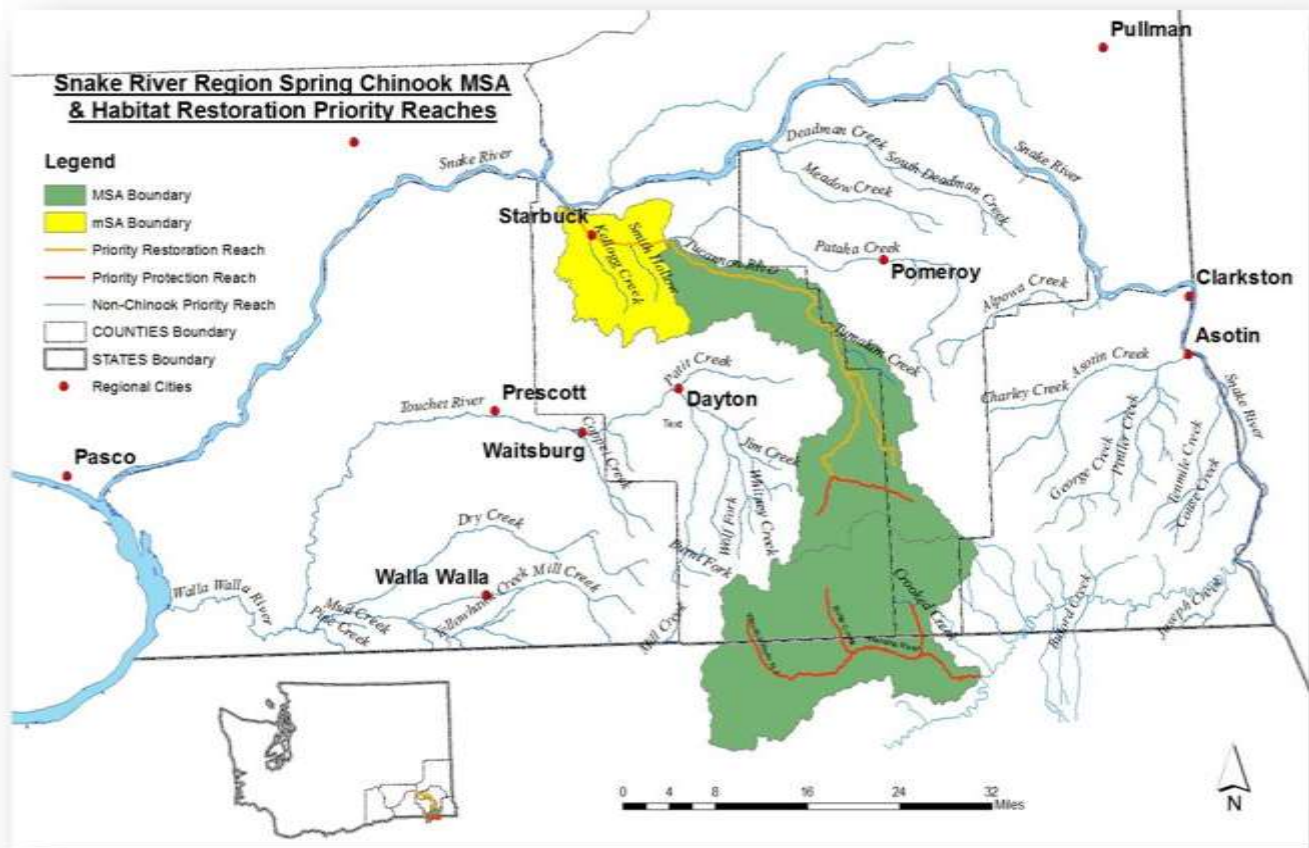


Figure 2. The Snake River Region MSA/mSA boundaries and priority reaches for Snake River spring Chinook (Snake River Salmon Recovery Plan 2005). Watersheds shaded green represent the major spawning areas (MSA) and the ones shaded yellow representing minor spawning areas (mSA) for salmon and/or steelhead. Areas of watersheds not colored are not currently considered salmonid habitat. Stream segments 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 designed 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 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.

<b>Table Label</b>	<b>Description</b>
HWS Number	Project number and link to complete project description
Project Name	Project title
Project Location	Location where the project would be implemented
Status	Conceptual, Proposed or Funded
Priority	High =1, 3=low

### Habitat Restoration Table for WRIA 32, 33, & 35

Number	Name	Watershed	Priority (1, 2 or 3)	Status (Con = conceptual, Pro = proposed or Act = active)	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
<a href="#">35-00133</a>	Head Cut Barrier Removal (Alkali Creek)	Alkali Creek mSA	1	Conceptual	2/25/09	6/29/12			II	No	Yes	Ongoing
<a href="#">35-00263</a>	Alpowa Creek Irrigation Efficiency Projects	Alpowa Creek MSA	1	Conceptual	1/1/08	1/1/11		Asotin Co Conservation Dist., Pomeroy Conservation Dist.	II	Yes	Yes	Ongoing
<a href="#">35-00154</a>	CREP Alpowa Creek Restoration and Protection Reach	Alpowa Creek MSA	1	Active	1/1/96	6/30/20	Megan Stewart	Asotin Co Conservation Dist., Pomeroy Conservation Dist.	N/A	Yes	Yes	Ongoing
<a href="#">11-1576</a>	Alpowa Creek Habitat Assessment	Alpowa Creek MSA	1	Active	12/9/11	3/31/13	Brad Johnson	Asotin PUD	\$81,534	Yes	Yes	2011
<a href="#">35-00469</a>	Alpowa Habitat Restoration and Protection	Alpowa Creek MSA	1	Conceptual	1/1/14	12/31/17	Brad Johnson, Megan Stewart, Duane Bartels	Asotin Co Conservation Dist., Asotin PUD, Pomeroy Conservation Dist.	II	Yes	Yes	2014
<a href="#">35-00142</a>	Alpowa Road Culvert Fish Passage Project	Alpowa Creek MSA	1	Conceptual	7/21/10	12/31/15	Duane Bartels	Pomeroy Conservation Dist.	\$150,000	Yes	Yes	2014
<a href="#">35-00403</a>	Dike Setback Asotin & Charley Creek WDFW Land	Asotin MSA	1	Conceptual	1/1/16	12/31/18	Megan Stewart	Asotin Co Conservation Dist.	II	No	Yes	2016
<a href="#">35-00273</a>	Relocate Charley Creek Roadway	Asotin MSA	1	Conceptual	1/1/13	12/31/16	WDFW	WDFW	\$200,000	Yes	Yes	2016



Number	Name	Watershed	Priority (1, 2 or 3)	Status (Con = conceptual, Pro = proposed or Act = active)	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
<a href="#">35-00269</a>	Charley Creek Culvert Assess/Design	Asotin MSA	1	Conceptual	2/26/09	1/15/19	Asotin County Asotin Co Conservation Dist	Asotin County Asotin Co Conservation Dist.	\$100,000	No	Yes	Undetermined
<a href="#">35-00265 11-1573</a>	Asotin N. S. Fork & Charley Creek Channel Complexity (IMW Restoration)	Asotin MSA	1	Active	1/1/09	12/31/15	Dave Karl/ Ecological	Washington Department of Fish and Wildlife	\$467,000	Yes	Yes	2011
<a href="#">35-00237</a>	Riparian Restoration on WDFW Property in Asotin Creek	Asotin MSA	1	Conceptual	1/19/16	1/15/19	Dave Karl, Megan Stuart	Asotin Co Conservation Dist., Washington Department of Fish and Wildlife	I	No	Yes	Undetermined
<a href="#">35-00236</a>	Riparian Fencing Charley Creek	Asotin MSA	1	Conceptual	1/1/09	1/19/16	Dave Karl, Megan Stuart	Asotin Co Conservation Dist., Washington Department of Fish and Wildlife	\$200,000	Yes	Yes	2013
<a href="#">35-00233</a>	Headgate Park Habitat Complexity	Asotin MSA	1	Conceptual	1/1/09	1/19/16	Megan Stewart	Asotin Co Conservation Dist.	II	Yes	Yes	2014
<a href="#">35-00171</a>	Asotin Creek Upland Best Management Practices	Asotin MSA	1	Conceptual	1/1/09	1/19/16	Megan Stewart	Asotin Co Conservation Dist.	I	Yes	Yes	Ongoing
<a href="#">35-00127</a>	CREP Asotin Creek Restoration and Protection Reach	Asotin MSA	1	Active	1/1/96	6/30/20	Megan Stewart	Asotin Co Conservation Dist.	N/A	Yes	Yes	Ongoing

Number	Name	Watershed	Priority (1, 2 or 3)	Status (Con = conceptual, Pro = proposed or Act = active)	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
<a href="#">35-00107</a>	Headgate Fish Passage Final Design and Construction	Asotin MSA	1	Active	1/1/10	10/30/14	Sandy Cunningham	Asotin Co Conservation Dist.	\$286,000	Yes	Yes	2013
<a href="#">00-00059</a>	Regional Protect Expiring CRP Leases	Both WRIAs	1	Conceptual	1/1/09	1/19/16	Terry Bruegman, Duane Bartels, Cheryl Sonnen, Larry Hooker	Asotin Co Conservation Dist., Columbia Conservation Dist., Pomeroy Conservation Dist., Walla Walla Co Cons Dist.	II	Yes	Yes	Ongoing
<a href="#">00-00101</a>	Water Conservation Implementation WRIA 32 and 35	Both WRIAs	1	Conceptual	1/3/04	6/30/15			II	Yes	Yes	Ongoing
<a href="#">35-00138</a>	Couse Creek No-till, Minimum Till and Direct Seed Farming	Couse Creek mSA	1	Active	1/1/96	1/19/16	Megan Stewart	Asotin Co Conservation Dist.	\$37,261	Yes	Yes	Ongoing
<a href="#">35-00137</a>	CREP Couse Creek Protection Reach	Couse Creek mSA	1	Active	1/1/96	6/30/20	Megan Stewart	Asotin Co Conservation Dist.	N/A	Yes	Yes	Ongoing
<a href="#">35-00135</a>	Couse Creek Head Cut	Couse Creek mSA	1	Conceptual	2/2/09	1/19/16	Mike Miraglio	Asotin Co Conservation District	I	Yes	Yes	2013
<a href="#">35-00072</a>	Couse Creek Fish Passage (In stream Rock Structure)	Couse Creek mSA	2	Conceptual	1/19/16	1/15/19	<i>Mike Miraglio</i>	Asotin Co Conservation Dist.	I	No	Yes	2016
<a href="#">35-00258</a>	Direct Seed Program Deadman Creek (BPA)	Deadman Creek mSA	1	Completed	2/26/09	1/19/16	Duane Bartels	Pomeroy Conservation Dist.	N/A	Yes	Yes	Ongoing

Number	Name	Watershed	Priority (1, 2 or 3)	Status (Con = conceptual, Pro = proposed or Act = active)	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
<a href="#">35-00139 CREP</a>	CREP Deadman Creek Protection Reach	Deadman Creek mSA	1	Active	1/1/96	6/30/20	Duane Bartels	Pomeroy Conservation Dist.	N/A	Yes	Yes	Ongoing
<a href="#">32-00537</a>	Irrigation Fish Screens Dry Creek mSA	Dry Creek mSA	1	Active	1/8/96	1/19/16	Rick Jones, Greg Kinsinger	Walla Walla Co Cons Dist.	I	Yes	Yes	Ongoing
<a href="#">32-00517</a>	CREP Dry Creek Restoration and Protection Reach	Dry Creek mSA	1	Active	1/1/96	6/30/20	Larry Hooker, Rick Jones	Walla Walla Co Cons Dist.	N/A	Yes	Yes	Ongoing
<a href="#">32-00506</a>	Fish Passage Barrier Dry Creek Lower Waitsburg Road	Dry Creek mSA	1	Conceptual	4/12/10	1/19/16	Larry Hooker, Rick Jones	Walla Walla Co Cons Dist. Walla Walla County	II	Yes	Yes	2013
<a href="#">32-00193</a>	Stream Crossings (Fords) in Dry Creek mSA Scott Rd.	Dry Creek mSA	3	Conceptual	1/19/16	1/15/19	Walla Walla County	Tri-State Steelheaders Inc., Walla Walla Co Cons Dist., Walla Walla County of	II	No	Yes	2016
<a href="#">32-00172</a>	Dry Creek Head Cut	Dry Creek mSA	1	Conceptual	1/19/16	1/15/19	Larry Hooker, Rick Jones	Walla Walla Co Cons Dist.	I	No	Yes	2016
<a href="#">35-00353 09-1584</a>	George Creek WDFW In-stream Habitat Restoration	George Creek MSA	1	Active	9/19/09	1/1/14	Dave Karl, Brian Burns	Washington Department of Fish and Wildlife, Tri-State Steelheaders Inc.	\$456,000	Yes	Yes	2013
<a href="#">35-00231</a>	Ayers Gulch Sediment Retention Pilot	George Creek MSA	1	Conceptual	1/19/16	1/15/19	Dave Karl	WDFW	I	No	Yes	2016

Number	Name	Watershed	Priority (1, 2 or 3)	Status (Con = conceptual, Pro = proposed or Act = active)	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
<a href="#">35-00161</a>	South George USFS Rd Decommissioning	George Creek MSA	1	Active	11/19/08	11/2/15	Del Groat	US Forest Service	\$160,000	Yes	Yes	Ongoing
<a href="#">35-00130</a>	CREP George Creek Restoration and Protection Reach	George Creek MSA	1	Active	1/1/96	6/30/20	Megan Stewart	Asotin Co Conservation Dist.	N/A	Yes	Yes	Ongoing
<a href="#">35-00463</a>	Buford Creek Barrier Culvert Modification (HWY 129)	Grande Ronde MSA	1	Conceptual	1/19/16	1/15/19		WDOT	II	No	Yes	2016
<a href="#">35-00321</a>	Fish Passage (Cottonwood Creek)	Grande Ronde MSA	2	Conceptual	1/19/16	1/15/19		WDFW	II	No	Yes	2016
<a href="#">35-00159</a>	Rattle Snake Fish Passage	Grande Ronde MSA	1	Conceptual	1/4/10	12/31/14	Mike Miraglio	Asotin Co Conservation District & WDOT	II	Yes	Yes	2014
<a href="#">35-00149</a>	CREP Grande Ronde MSA Priority Protection Reaches	Grande Ronde MSA	1	Active	1/1/96	6/30/20	Megan Stewart	Asotin Co Conservation Dist	N/A	Yes	Yes	Ongoing
<a href="#">35-00402</a>	Riparian Restoration (Magden)	Joseph Creek MSA	2	Conceptual	1/19/16	1/15/19	Megan Stewart	Asotin Co Conservation Dist.	\$40,000	No	Yes	2016
<a href="#">35-00240</a>	Joseph Creek Irrigation Efficiency & Riparian Restoration (WDFW Land)	Joseph Creek MSA	1	Conceptual	1/19/16	1/15/19	Dave Karl	Washington Department of Fish and Wildlife	I	No	Yes	2016
<a href="#">35-00180</a>	Joseph Creek Riparian Restoration (CREP, or other)	Joseph Creek MSA	1	Active	1/1/96	1/1/25	Megan Stewart	Asotin Co Conservation Dist., WDFW	I	Yes	Yes	Ongoing

Number	Name	Watershed	Priority (1, 2 or 3)	Status (Con = conceptual, Pro = proposed or Act = active)	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
<a href="#">35-00193</a>	Cold Creek Habitat Assessment/Design	Mill Creek MSA	2	Conceptual	1/19/16	1/15/19	Larry Hooker, Rick Jones	Walla Walla Co Cons Dist.	I	No	Yes	2016
<a href="#">32-00535</a>	Mill Creek Reach 1 Sill Fish Passage (Implementation)	Mill Creek MSA	1	Conceptual	1/15/13	1/15/19	Brian Burns	Tri-State Steelheaders Inc.	\$5,000,000	Yes	Yes	2016
<a href="#">32-00534</a>	Mill Creek Irrigation Fish Screens	Mill Creek MSA	1	Active	1/8/96	12/31/24	Rick Jones, Greg Kinsinger	Walla Walla Co Cons Dist.	II	Yes	Yes	Ongoing
<a href="#">32-00515</a>	Barrier Culvert at Mouth Titus Creek	Mill Creek MSA	1	Conceptual	8/30/10	1/19/16	Jerry Anhorn	WWCC	II	Yes	Yes	2014
<a href="#">32-00514</a>	CREP Mill Creek Restoration and Protection Reach	Mill Creek MSA	1	Active	1/1/96	6/30/20	Larry Hooker, Rick Jones	Walla Walla Co Cons Dist.	N/A	Yes	Yes	Ongoing
<a href="#">32-00473</a>	Reach 3: Trapezoidal Flume Barrier Removal	Mill Creek MSA	1	Active	1/1/10	1/15/19	Brian Burns	Tri-State Steelheaders	III	Yes	Yes	2013
<a href="#">32-00581</a>	Reach 4: Trapezoidal Flume Split	Mill Creek MSA	1	Conceptual	1/1/10	1/15/19	Brian Burns	Tri-State Steelheaders	II	Yes	Yes	2015
<a href="#">32-00582</a>	Reach 5: Flume Transition Trapezoidal to Rectangular	Mill Creek MSA	1	Conceptual	1/1/10	1/15/19	Brian Burns	Tri-State Steelheaders	II	y	y	2015

Number	Name	Watershed	Priority (1, 2 or 3)	Status (Con = conceptual, Pro = proposed or Act = active)	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
<a href="#">32-00473 11-1587</a>	Mill Creek Reach 6: (Rectangular Flume 6 ft Baffles)	Mill Creek MSA	1	Active	12/9/11	12/9/14	Brian Burns	Tri-State Steelheaders	\$502,377	Y	Y	2013
<a href="#">32- 00582B</a>	Reach 7: Rectangular Flume Split 3 ft Baffles	Mill Creek MSA	1	Conceptual	1/1/10	1/15/19	Brian Burns	Tri-State Steelheaders	II	y	y	2015
<a href="#">32-00583</a>	Reach 8: Rectangular Double Wall Flume 10 ft Baffles	Mill Creek MSA	1	Conceptual	1/1/10	1/15/19	Brian Burns	Tri-State Steelheaders	III	y	y	2015
<a href="#">32-00584</a>	Reach 9 & 10 Rectangular to Trapezoidal	Mill Creek MSA	1	Conceptual	1/1/10	1/15/19	Brian Burns	Tri-State Steelheaders	II	y	y	2015
-	Reach 12 & 13: Division Dam Fishways	Mill Creek MSA	1	Conceptual	1/1/10	1/15/19	Brian Burns	Tri-State Steelheaders	III	y	y	2015
<a href="#">32-00412</a>	Bennington Diversion Dam Fish Passage	Mill Creek MSA	1	Active	1/1/09	9/30/13	Stan Heller	US Army Corps of Engineers	\$5,000,000	y	Yes	2015
<a href="#">32-00320</a>	Habitat Restoration Bennington Diversion Dam to State Line	Mill Creek MSA	1	Conceptual	1/1/09	1/19/16		Washington Department of Fish and Wildlife, Tri-State Steelheaders Inc., Umatilla Confederated Tribe, Walla Walla Co Cons Dist.	III	y	y	2014



Number	Name	Watershed	Priority (1, 2 or 3)	Status (Con = conceptual, Pro = proposed or Act = active)	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
<a href="#">32-00266</a>	Doan Creek Culvert Project	Mill Creek MSA	1	Conceptual	1/19/16	1/15/19	Dave Karl, Larry Hooker, Rick Jones	Washington Department of Fish and Wildlife, Walla Walla Co Cons Dist.	II	No	Yes	Undetermined
<a href="#">32-00233</a>	Enhance Municipal Storm Water Practices for Aquifer Recharge (Mill Cr)	Mill Creek MSA	1	Active	1/1/09	1/19/16		City of Walla Walla	II	y	y	Undetermined
<a href="#">32-00232</a> <a href="#">11-1583</a>	Jones Ditch - Passage/Screening and Habitat	Mill Creek MSA	1	Active	1/4/09	6/30/13	Greg Kinsinger	Washington Department of Fish and Wildlife, Walla Walla Co Cons Dist.	\$94,297	Yes	Yes	2012
<a href="#">32-00230</a>	Local Pilot Projects Reduce surface diversions (Titus Creek)	Mill Creek MSA	2	Conceptual	1/19/16	1/15/19	Jerry Anhorn	Walla Walla Community College	II	No	Yes	2016
<a href="#">32-00226</a>	Mill Creek Recreation Fields (Schulke) Ditch	Mill Creek MSA	1	Conceptual	1/19/16	1/15/19	Larry Hooker, Rick Jones	Walla Walla Co Cons Dist.	II	No	Yes	2016
<a href="#">32-00166</a>	Doan Creek Habitat Work in College Place	Mill Creek MSA	2	Conceptual	1/19/16	1/15/19	Dave Karl, Larry Hooker, Rick Jones	Washington Department of Fish and Wildlife, Walla Walla Co Cons Dist.	I	No	Yes	2016
<a href="#">35-00468</a>	Pataha Creek willow Whips	Pataha Creek MSA	1	Conceptual	2/5/12	2/1/15	Duane Bartels	Pomeroy Conservation Dist.	I	y	y	2013

Number	Name	Watershed	Priority (1, 2 or 3)	Status (Con = conceptual, Pro = proposed or Act = active)	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
<a href="#">35-00438</a>	Pataha Creek Watershed Assessment	Pataha Creek MSA	1	Active	5/22/11	6/30/13	Duane Bartels	Pomeroy Conservation Dist.	\$17,500	Yes	Yes	2013
<a href="#">35-00173</a>	Upper Pataha Restoration	Pataha Creek MSA	1	Conceptual	1/19/16	1/15/19	Del Groat	US Forest Service	I	No	Yes	2016
<a href="#">35-00146</a>	CREP Pataha Creek Restoration and Protection Reach	Pataha Creek MSA	1	Active	1/1/96	6/30/20	Terry Bruegman, Duane Bartels	Columbia Conservation Dist., Pomeroy Conservation Dist.	N/A	Yes	Yes	Ongoing
<a href="#">35-00073</a>	Relocate Stock Water Out of Sensitive Riparian Areas in Pataha Creek	Pataha Creek MSA	1	Conceptual	1/1/09	1/19/16	Terry Bruegman, Duane Bartels	Columbia Conservation Dist., Pomeroy Conservation Dist.	I	Yes	Yes	2014
<a href="#">32-00516</a>	CREP Pine Creek Non-Priority Reach	Pine Creek mSA	1	Active	1/1/96	6/30/20	Larry Hooker, Rick Jones, Mike Denny	Walla Walla Co Cons Dist.	N/A	Yes	Yes	Ongoing
<a href="#">35-00140</a>	CREP Snake River mSA	Snake River MSA	1	Active	1/1/96	6/30/20	Megan Stewart	Asotin Co Conservation Dist.	N/A	Yes	Yes	Ongoing
<a href="#">35-00141</a>	CREP Tenmile Creek Protection Reach	Tenmile Creek mSA	1	Active	1/1/96	6/30/20	Megan Stewart	Asotin Co Conservation Dist.	N/A	Yes	Yes	Ongoing
<a href="#">32-00508</a>	Lower Touchet River CREP	Touchet Lower	1	Active	1/1/96	10/31/24	Larry Hooker, Rick Jones	Walla Walla Co Cons Dist.	N/A	Yes	Yes	Ongoing
<a href="#">32-00531</a>	Middle Touchet River Fish Screens	Touchet Middle MSA	1	Active	1/31/96	6/30/16	Bruegman, Kinsinger	Columbia Conservation Dist., WWCCD.	I	Yes	Yes	Ongoing

Number	Name	Watershed	Priority (1, 2 or 3)	Status (Con = conceptual, Pro = proposed or Act = active)	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
<a href="#">32-00512</a>	CREP Middle Touchet River Restoration and Protection Reach	Touchet Middle MSA	1	Active	1/1/96	6/30/20	Terry Bruegman, Larry Hooker, Rick Jones	Columbia Conservation Dist., Walla Walla Co Cons Dist.	N/A	Yes	Yes	Ongoing
<a href="#">32-00511</a> <a href="#">10-1826</a>	Touchet River McCaw Reach Restoration Project, Phase A & B	Touchet Middle MSA	1	Active	7/29/10	1/19/16	Larry Hooker, Rick Jones, Jeff Klundt	Walla Walla Co Cons Dist.	\$292,800	Yes	Yes	2013
<a href="#">32-00586</a>	Japanese Knotweed Control Waitsburg City Levee	Touchet Middle MSA	1	Conceptual	1/15/13	1/19/16	Mike Denny	Walla Walla Weed Board	I	Yes	Yes	2013
<a href="#">32-00310</a>	Touchet River Dike Setback Design Construct (Lindy Levee)	Touchet Middle MSA	1	Conceptual	1/19/16	1/15/19	Dave Karl	Columbia County of, Washington Department of Fish and Wildlife	II	No	Yes	2016
<a href="#">32-00286</a>	Whiskey Creek Buffer Project	Touchet Middle MSA	2	Conceptual	1/1/09	1/19/16	Terry Bruegman, Larry Hooker	Columbia Conservation Dist., Walla Walla Co Cons Dist.	I	Yes	Yes	2014
<a href="#">32-00275</a>	South Fork Coppei Creek Stream Fords	Touchet Middle MSA	1	Conceptual	1/19/16	1/15/19	Larry Hooker, Brian Burns, Rick Jones	Tri-State Steelheaders Inc., Walla Walla Co Cons Dist.	I	No	Yes	2016
<a href="#">32-00247</a>	Hearn Ditch (Touchet River)	Touchet Upper MSA	1	Conceptual	1/19/16	1/15/19	Terry Bruegman	Columbia Conservation Dist.	I	No	Yes	2016
<a href="#">32-00238</a>	Coppei Creek In-stream Habitat Complexity Projects	Touchet Middle MSA	1	Conceptual	1/1/09	6/30/11	Larry Hooker	Walla Walla Co Cons Dist.	II	Yes	Yes	2015

Number	Name	Watershed	Priority (1, 2 or 3)	Status (Con = conceptual, Pro = proposed or Act = active)	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
<a href="#">32-00236</a>	Upland BMP's Coppei Creek	Touchet Middle MSA	1	Conceptual	1/1/09	6/29/12	Larry Hooker, Rick Jones	Walla Walla Co Cons Dist.	I	Yes	Yes	Ongoing
<a href="#">32-00182</a>	Touchet Valley Golf Course Irrigation Efficiency	Touchet Middle MSA	2	Conceptual	1/1/09	1/1/16	Guy McCaw		II	Yes	Yes	2015
<a href="#">32-00168</a>	Ephemeral Stream Sediment Reduction Projects (Touchet)	Touchet Middle MSA	2	Conceptual	1/1/09	1/1/16	Terry Bruegman, Larry Hooker, Rick Jones	Columbia Conservation Dist., Walla Walla Co Cons Dist.	I	Yes	Yes	Ongoing
<a href="#">32-00538</a>	Irrigation Fish Screens Lower Touchet River	Touchet River Lower	1	Active	1/8/96	12/31/24	Rick Jones, Greg Kinsinger	Walla Walla Co Cons Dist.	I	Yes	Yes	Ongoing
<a href="#">32-00574</a>	Floodplain Channel Connectivity (Rainwater South Fork Touchet)	Touchet Upper MSA	1	Conceptual	1/16/12	1/1/16	Jerry Middel	Umatilla Confederated Tribe	II	Yes	Yes	2015
<a href="#">32-00241</a>	Rainwater Stream/Flood-plain Restoration Project	Touchet Upper MSA	1	Conceptual	1/1/09	1/1/16	Jerry Middel	Umatilla Confederated Tribe	\$300,000	Yes	Yes	2014
<a href="#">32-00569</a>	Touchet Forks Restoration Design and Implementation	Touchet Upper MSA	1	Active	1/3/11	1/1/16	Trina Cole	City of Dayton	\$600,000	Yes	Yes	2015
<a href="#">32-00557</a>	Upper Touchet River Fish Screen	Touchet Upper MSA	1	Conceptual	1/1/06	1/1/16	Terry Bruegman	Columbia Conservation Dist	I	Yes	Yes	Ongoing
<a href="#">32-00532</a>	CREP Upper Touchet River Restoration and Protection Reach	Touchet Upper MSA	1	Active	1/1/96	6/30/20	Terry Bruegman	Columbia Conservation Dist.	N/A	Yes	Yes	Ongoing

Number	Name	Watershed	Priority (1, 2 or 3)	Status (Con = conceptual, Pro = proposed or Act = active)	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
<a href="#">32-00475</a>	Upper Touchet River Levee Set-Back or Removal	Touchet Upper MSA	1	Conceptual	1/1/10	1/1/16			II	Yes	Yes	2015
<a href="#">32-00474</a>	North Fork Touchet Recreational In Channel Disturbances	Touchet Upper MSA	1	Conceptual	1/1/10	1/1/19	Dave Karl	WDFW	II	Yes	Yes	Ongoing
<a href="#">32-00472</a>	Touchet River Riparian and Floodplain Restoration	Touchet Upper MSA	1	Conceptual	1/1/10	6/28/13			II	Yes	Yes	2015
<a href="#">32-00246</a>	Replace Stream Fords (Tamarack Trail)	Touchet Upper MSA	2	Conceptual	1/19/16	1/15/19	Del Groat	US Fish & Wildlife Service	I	No	Yes	2016
<a href="#">32-00245</a> <a href="#">32-00391</a>	Culvert Replacement Bluewood Road	Touchet Upper MSA	1	Active	1/1/09	6/6/11	Jerry Middel	US Forest Service	II	Yes	Yes	2013
<a href="#">32-00178</a>	Reduce Point Source Inputs Into NF Touchet	Touchet Upper MSA	2	Conceptual	1/19/16	1/15/19	Chir Hyland Terry Bruegman, Dave Karl	Columbia County of, Washington Department of Ecology, Washington Department of Fish and Wildlife	II	No	Yes	2016
<a href="#">35-00467</a>	Project Area 11 Beaver Watson Downstream LWD	Tucannon MSA	1	Conceptual	2/1/12	2/29/16	Dave Karl	Washington Department of Fish and Wildlife	II	Yes	Yes	2014

Number	Name	Watershed	Priority (1, 2 or 3)	Status (Con = conceptual, Pro = proposed or Act = active)	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
<a href="#">35-00466</a>	Reach 2 Project Area 40 Through 45	Tucannon MSA	1	Conceptual	1/1/12	1/1/16	Terry Bruegman	Columbia Conservation Dist.	III	Yes	Yes	2014
<a href="#">35-00462</a>	Project Area 28 King Grade Down to RM 20	Tucannon MSA	1	Conceptual	1/19/16	1/15/19	Terry Bruegman	Columbia Conservation Dist.	II	No	y	
<a href="#">35-00461</a>	Project Area 27 King Grade Bridge Levee Setback	Tucannon MSA	1	Conceptual	12/18/11	12/31/18	Terry Bruegman	Columbia Conservation Dist.	II	Yes	Yes	2015
<a href="#">35-00460</a>	Project Area 25 Protection and Restoration	Tucannon MSA	1	Conceptual	1/19/16	1/15/19			II	No	Yes	2016
<a href="#">35-00459</a>	Project Area 20 Riparian Easement	Tucannon MSA	1	Conceptual	1/19/16	1/15/19		Blue Mountain Land Trust	II	No	Yes	2016
<a href="#">35-00458</a>	Project Area 19 HWY Bridge Widening and LWD	Tucannon MSA	1	Conceptual	12/18/11	12/31/18			II	Yes	Yes	2016
<a href="#">35-00457</a>	Project Area 16 Last Resort Community	Tucannon MSA	1	Conceptual	12/18/11	12/31/18			III	No	Yes	2016
<a href="#">35-00456</a>	Project Area 9 Big Four Lake Modification and LWD	Tucannon MSA	1	Conceptual	12/18/11	12/31/18			III	No	Yes	2016
<a href="#">35-00455</a>	Project Area 6 Camp Ground Mod & Bridge Removal	Tucannon MSA	1	Conceptual	1/19/16	1/15/19	Del Grout	USFS	II	No	Yes	2016
<a href="#">35-00454</a>	Project Area 23 Floodplain Ramirez	Tucannon MSA	1	Conceptual	12/18/11	12/31/18			II	Yes	Yes	2014



Number	Name	Watershed	Priority (1, 2 or 3)	Status (Con = conceptual, Pro = proposed or Act = active)	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
<a href="#">35-00453</a>	Project Area 22 Levee Setback and Complexity	Tucannon MSA	1	Conceptual	12/18/11	12/31/18			II	Yes	Yes	2013
<a href="#">35-00452</a>	Project Area 21 LWD and Levee Set Back	Tucannon MSA	1	Conceptual	12/18/11	12/31/18			II	Yes	Yes	2015
<a href="#">35-00451</a>	Project Area 8 Curl Lake Levee Set Back	Tucannon MSA	1	Conceptual	12/11/11	12/31/18			II	Yes	Yes	2016
<a href="#">35-00450</a>	Project Area 3 Little Tuc to Camp Wooten	Tucannon MSA	1	Active	12/11/11	12/28/18	Del Groat, Eric Hoverson	Umatilla Confederated Tribe, US Forest Service	II	Yes	Yes	2013
<a href="#">35-00449</a>	Project Area 1 Panjab Bridge Downstream	Tucannon MSA	1	Conceptual	12/12/11	12/31/18	Del Groat, Eric Hoverson	Umatilla Confederated Tribe, US Forest Service	II	Yes	Yes	2014
<a href="#">35-00448</a>	Project Area 17 McGovern Ln LWD and Riparian and Floodplain	Tucannon MSA	1	Conceptual	11/22/11	1/1/19			II	Yes	Yes	2016
<a href="#">35-00447</a>	Project Area 15 Russell Spring Cr Reach LWD Placement	Tucannon MSA	1	Conceptual	11/22/11	12/31/15			\$700,000	Yes	Yes	2012
<a href="#">35-00446</a>	Project Area 12 Deer Lake Side Channel Large Wood Augmentation	Tucannon MSA	1	Conceptual	1/19/16	1/15/19		Washington Department of Fish and Wildlife	\$60,000	No	y	2014

Number	Name	Watershed	Priority (1, 2 or 3)	Status (Con = conceptual, Pro = proposed or Act = active)	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
<a href="#">35-00445</a>	Project Area 13 Rainbow Lake Reach Levees and LWD	Tucannon MSA	1	Conceptual	11/21/11	11/21/16		Washington Department of Fish and Wildlife	II	Yes	Yes	2016
<a href="#">35-00443</a>	Project Area 5 Camp Wooten Road Relocation Floodplain Expansion Project	Tucannon MSA	1	Conceptual	8/15/11	9/30/16		Washington Department of Fish and Wildlife	II	No	y	2016
<a href="#">35-00472</a>	Project Area 13 Rainbow Lake Reconfiguration, Levee Removal and LWD	Tucannon MSA	1	Conceptual	1/15/13	1/1/19	Dave Karl	Washington Department of Fish and Wildlife	III	Yes	Yes	2016
<a href="#">35-00473</a>	Project Area 12 Deer Lake Reconfiguration	Tucannon MSA	1	Conceptual	1/19/16	1/15/19	Dave Karl	Washington Department of Fish and Wildlife	III	No	Yes	2017
<a href="#">35-00409</a>	Tucannon River Power Line Right of Way	Tucannon MSA	1	Conceptual	2/27/09	1/1/16	Dave Karl	Washington Department of Fish and Wildlife	III	Yes	Yes	2015
<a href="#">35-00292</a>	Project Area 24 Golf Course Stream Complexity and Floodplain Conectivity	Tucannon MSA	1	Active	2/26/09	12/31/16	Terry Bruegman	Columbia Conservation Dist.	\$400,000	y	y	2015
<a href="#">35-00252</a>	Kellogg Creek Head cut (Fish Passage Barrier)	Tucannon mSA	2	Conceptual	1/19/16	1/15/19		Columbia Conservation Dist., Washington Department of Fish and Wildlife	I	No	Yes	2016

Number	Name	Watershed	Priority (1, 2 or 3)	Status (Con = conceptual, Pro = proposed or Act = active)	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
<a href="#">35-00220</a>	Project Area 14 Hatchery Bridge to Cummins Cr Complexity	Tucannon MSA	1	Active	11/21/11	12/31/15	Dave Karl	Washington Department of Fish and Wildlife	\$1,300,000	Yes	Yes	2013
<a href="#">35-00191</a>	Project Area 4 Camp Wooten River Dike Set Back	Tucannon MSA	1	Conceptual	1/19/16	1/15/19		Washington Department of Fish and Wildlife	\$1,000,000	No	Yes	2016
<a href="#">35-00156</a>	Project Area 7 USFS Road Relocate Out of Floodplain	Tucannon MSA	1	Conceptual	1/1/10	1/1/18	Del	USFS	\$500,000	Yes	Yes	2016
<a href="#">35-00132</a>	CREP Tucannon River Restoration and Protection Reach	Tucannon MSA	1	Active	1/1/96	6/30/20	Terry Bruegman	Columbia Conservation Dist.	N/A	Yes	Yes	Ongoing
<a href="#">35-00112</a>	Improve Fish Migration Corridor into Tumalum Creek	Tucannon MSA	2	Conceptual	1/1/10	1/1/18			II	Yes	Yes	2016
<a href="#">35-00111</a>	Project Area 2 In stream Habitat Complexity Cow Camp	Tucannon MSA	1	Conceptual	1/19/16	1/15/19		Washington Department of Fish and Wildlife	\$200,000	No	Yes	2015
<a href="#">35-00110</a>	Project Area 26 Habitat Complexity Marengo to King Grade	Tucannon MSA	1	Conceptual	1/1/10	12/30/16		Columbia Conservation Dist.	\$400,000	Yes	Yes	2013
<a href="#">35-00074</a>	Smith Hollow Barrier Prevention	Tucannon mSA	2	Conceptual	1/19/16	1/15/19	Terry Bruegman	Columbia Conservation Dist.	I	No	Yes	2016

Number	Name	Watershed	Priority (1, 2 or 3)	Status (Con = conceptual, Pro = proposed or Act = active)	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
<a href="#">35-00071</a>	Small Tucannon River Tributary LWD Placement	Tucannon MSA	1	Conceptual	2/2/09	9/30/16	Dave Karl, Del Groat	Washington Department of Fish and Wildlife	I	No	Yes	2016
<a href="#">35-00070</a>	Project Area 18 Wooten (Hartsock) Floodplain & Complexity Restoration	Tucannon MSA	1	Active	1/19/16	1/15/19	Dave Karl	Washington Department of Fish and Wildlife	\$80,000	No	Yes	2017
-	Project Area 28 Protection Reach	Tucannon MSA	1	Conceptual	1/15/16	1/15/19	Terry Bruegman	Columbia Conservation Dist.	II	No	Yes	2018
35-00476	Project Area 29 Floodplain and LWD Above Enrich Bridge	Tucannon MSA	1	Conceptual	1/19/16	1/15/19	Terry Bruegman	Columbia Conservation Dist.	II	No	Yes	2018
35-00477	Project Area 30 Levee Removal and Set Back (below Enrich Bridge)	Tucannon MSA	1	Conceptual	1/19/16	1/15/19	Terry Bruegman	Columbia Conservation Dist.	II	No	Yes	2018
35-00478	Project Area 31A Floodplain and side channel reconnection and LWD	Tucannon MSA	1	Conceptual	1/19/16	1/15/19			II	No	Yes	2018
35-00479	Project Area 32 HWY 12 Br Upstream Levee Setback	Tucannon MSA	2	Conceptual	1/19/16	1/15/19			II	No	Yes	2018
35-00480	Project Area 31B Floodplain and side channel reconnection and LWD	Tucannon MSA	1	Conceptual	1/19/16	1/15/19			II	No	Yes	2018

Number	Name	Watershed	Priority (1, 2 or 3)	Status (Con = conceptual, Pro = proposed or Act = active)	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
35-00481	Project Area 33 LWD Placement HWY 12 to Territorial Rd	Tucannon MSA	1	Conceptual	1/15/13	1/1/19	Eric Hoverson	CTUIR	II	Yes	Yes	2017
35-00482	Project Area 34 LWD and Levee Set Back Pataha Confluence	Tucannon mSA	1	Conceptual	1/15/13	1/1/19			II	Yes	Yes	2017
35-00483	Project Area 35 LWD/Floodplain	Tucannon mSA	1	Conceptual	1/19/16	1/15/19			II	No	Yes	2018
35-00484	Project Area 36 Protection Above RV Park	Tucannon mSA	1	Conceptual	1/19/16	1/15/19		Blue Mountain Land Trust	II	No	Yes	2018
35-00485	Project Area 37 Levee Set Back and LWD RV Park	Tucannon mSA	1	Conceptual	1/19/16	1/15/19			II	No	Yes	2018
35-00486	Project Area 38 Levee Set Back and LWD	Tucannon mSA	1	Conceptual	1/19/16	1/15/19			III	No	Yes	2018
35-00487	Project Area 39 A-C Levee Set Back Starbuck	Tucannon mSA	1	Conceptual	1/19/16	1/15/19			III	No	Yes	2018
<a href="#">35-00441</a>	Protection area identified in the Assessment for Easements	Tucannon MSA/mSA	2	Conceptual	5/22/11	1/1/16		Blue Mountain Land Trust	\$24,950	Yes	Yes	2015
<a href="#">35-00298</a>	Tucannon River Noxious Weed Control (Indigo Bush)	Tucannon MSA/mSA	1	Conceptual	2/26/09	12/30/16		Columbia Conservation Dist., Columbia County Weed Board	\$250,000	Yes	Yes	2015

Number	Name	Watershed	Priority (1, 2 or 3)	Status (Con = conceptual, Pro = proposed or Act = active)	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
<a href="#">35-00197 08-2030</a>	Columbia County false indigo bush removal	Tucannon MSA/mSA	1	Active	12/11/08	5/15/13	Lindsay Cox	Columbia County Weed Board	\$112,000	Yes	Yes	12/11/08
<a href="#">35-00163</a>	Upland BMP Implementation Tucannon	Tucannon MSA/mSA	1	Active	11/10/97	1/1/16	Terry Bruegman	Columbia Conservation Dist.	I	Yes	Yes	Ongoing
<a href="#">35-00153</a>	Tucannon River Irrigation Efficiency Projects	Tucannon MSA/mSA	1	Active	1/1/96	6/28/24	Terry Bruegman	Columbia Conservation Dist	\$1,418,108	Yes	Yes	Ongoing
<a href="#">32-00525</a>	Lower Walla Walla River Fish Screens	Walla Walla Lower River	1	Active	10/4/99	10/31/24	Brian Burns, Rick Jones	Tri-State Steelheaders Inc., Walla Walla Co Cons Dist.	II	Yes	Yes	Ongoing
<a href="#">Op Main 32-00566</a>	Locher Pit Operations	Walla Walla MSA	1	Active	1/1/07	6/30/15		Gardena Farms Irg Dist. #13	I	Yes	Yes	Ongoing
<a href="#">O&amp;M 32- 00564</a>	SAR O&M (Hall- Wetland & Locher Pit Sites)	Walla Walla MSA	1	Active	1/1/05	6/30/15			I	Yes	Yes	Ongoing
<a href="#">OM 32- 00565</a>	Use dry wells & other technologies to allow infiltration of water to aquifer	Walla Walla MSA	1	Active	1/1/06	1/1/16			II	Yes	Yes	Ongoing
<a href="#">32-00572</a>	Stiller Pond Recharge Project & Local Water Plan	Walla Walla MSA	1	Active	5/10/11	9/30/16	Greg Kinsinger, Joel Huesby	Walla Walla Co Cons Dist.	\$107,000	Yes	Yes	Ongoing
<a href="#">32-00558</a>	Restoration of Mud Creek	Walla Walla MSA	2	Conceptual	1/19/16	1/15/19			I	No	Yes	

Number	Name	Watershed	Priority (1, 2 or 3)	Status (Con = conceptual, Pro = proposed or Act = active)	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
<a href="#">32-00550-10-1834</a>	Yellowhawk Barrier Removal	Walla Walla MSA	1	Active	8/25/10	3/31/13	Gerald Anhorn, Mike Pelissier	Inland Empire Action Coalition	\$59,836	Yes	Yes	2013
<a href="#">32-00545-10-1819-11-1588</a>	Bridge to Bridge Levee Project	Walla Walla MSA	1	Active	8/25/10	1/2/12	Brian Burns	Tri-State Steelheaders Inc.	\$618,234	Yes	Yes	Design Complete
<a href="#">32-00542</a>	GFID # 13 South and North Lateral Canal Piping Project	Walla Walla MSA	1	Active	1/1/06	12/31/13	Rick Jones, Stuart Durfee, Jack Myrick, Greg Kinsinger	Gardena Farms Irg Dist. #13, Walla Walla Co Cons Dist.	\$3,467,500	Yes	Yes	Completion in March 2013
<a href="#">32-00542</a>	GFID #13 Main (Upper) Canal Piping Project	Walla Walla MSA	1	Active	1/2/12	12/31/15	Rick Jones, Stuart Durfee, Jack Myrick, Greg Kinsinger	Gardena Farms Irg Dist. #13, Walla Walla Co Cons Dist.	III	Yes	Yes	
<a href="#">32-00541</a>	Garden City Piping Project	Walla Walla MSA	1	Active	1/1/06	4/29/15	Rick Jones	Gardena Farms Irg Dist. #13, Walla Walla Co Cons Dist.	\$1,437,000	Yes	Yes	
<a href="#">32-00536</a>	Walla Walla MSA Irrigation Fish Screens	Walla Walla MSA	1	Active	1/8/96	12/31/24	Rick Jones, Greg Kinsinger	Walla Walla Co Cons Dist.	II	Yes	Yes	Ongoing
<a href="#">32-00529</a>	Creating Urban Riparian Buffers (CURB) Program	Walla Walla MSA	1	Active	1/1/07	12/31/13		TSS	\$305,957	Yes	Yes	Ongoing
<a href="#">32-00518</a>	CREP Walla Walla River Restoration and Protection Reach	Walla Walla MSA	1	Active	1/1/96	6/30/20	Larry Hooker, Rick Jones, Mike Denny	Walla Walla Co Cons Dist.	N/A	Yes	Yes	Ongoing



Number	Name	Watershed	Priority (1, 2 or 3)	Status (Con = conceptual, Pro = proposed or Act = active)	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
<a href="#">32-00507</a>	CREP Lower Walla Walla River	Walla Walla MSA Walla Walla River Lower	1	Active	1/1/96	10/31/24	Larry Hooker, Rick Jones, Mike Denny	Walla Walla Co Cons Dist.	N/A	Yes	Yes	Ongoing
<a href="#">32-00447</a>	Yellowhawk Streamkeepers	Walla Walla MSA	2	Conceptual	1/19/16	1/15/19	Judith Johnson	Kooskooskie Commons	I	No	Yes	Ongoing
<a href="#">32-00419</a>	Walla Walla River Spring Creek Riparian Projects	Walla Walla MSA	2	Conceptual	12/31/10	12/31/13		Kooskooskie Commons, Walla Walla Co Cons Dist.	\$100,000	Yes	Yes	
<a href="#">32-00337</a>	Yellowhawk Road Crossing Barrier Implementation	Walla Walla MSA	1	Conceptual	1/1/09	6/30/11	Gerald Anhorn, Mike Pelissier	Inland Empire Action Coalition	\$65,000	Yes	Yes	
<a href="#">32-00330</a>	Restore River Reach-Last Chance to Frog Hollow	Walla Walla MSA	1	Conceptual	1/1/09	1/19/16	Larry Hooker	Walla Walla Co Cons Dist.	III	Yes	Yes	
<a href="#">32-00264</a>	Bridge to Bridge - Channel Restoration	Walla Walla MSA	1	Conceptual	1/1/09	1/19/16	Brian Burns	Tri-State Steelheaders Inc.	II	Yes	Yes	2014
<a href="#">32-00260</a>	Walla Walla Flow Enhancement Feasibility Study	Walla Walla MSA	1	Active	1/1/02	1/19/16			II	Yes	Yes	
<a href="#">32-00224</a>	Pipe Lowden No. 2 Canal	Walla Walla MSA	1	Conceptual	1/1/09	6/30/11	Larry Hooker, Rick Jones	Walla Walla Co Cons Dist.	III	Yes	Yes	
<a href="#">32-00223</a>	Gardena Farms Irrigation District Local Water Plan (10-01)	Walla Walla MSA	1	Active	5/1/11	5/1/16	Stuart Durfee	Gardena Farms Irg Dist. #13	I	Yes	Yes	

Number	Name	Watershed	Priority (1, 2 or 3)	Status (Con = conceptual, Pro = proposed or Act = active)	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
<a href="#">32-00222</a>	Reduce Out of Stream Diversions from Cottonwood Creek	Walla Walla MSA	1	Conceptual	1/19/16	1/15/19	Matt Rajnus, Dave Karl, Larry Hooker, Rick Jones	Washington Department of Ecology, Washington Department of Fish and Wildlife, Walla Walla Co Cons Dist.	I	No	Yes	2016
<a href="#">32-00197</a> <a href="#">08-2033</a>	Walla Walla Basin Fish Screen Projects	Walla Walla MSA	1	Active	6/6/08	5/13/13	Rick Jones, Greg Kinsinger	Walla Walla Co Cons Dist.	\$260,000	Yes	Yes	Completed in May 2013
<a href="#">32-00177</a>	Re-route Yellowhawk Creek Storm water Runoff	Walla Walla MSA	1	Conceptual	1/15/16	1/15/19			III	No	Yes	2016
<a href="#">32-00176</a>	Mud Creek Reconnection to Dry Creek	Walla Walla MSA	2	Conceptual	1/19/16	1/15/19	Larry Hooker, Rick Jones	Walla Walla Co Cons Dist.	II	No	Yes	2016
<a href="#">32-00175</a>	Bergevin-Williams/Old Lowden Ditch Irrigation Efficiency	Walla Walla MSA	1	Active	1/1/09	3/1/13	Larry Hooker, Rick Jones	Walla Walla Co Cons Dist.	\$2,069,000	Yes	Yes	Completion in March 2013
<a href="#">32-00167</a>	Cottonwood Creek Habitat Improvement	Walla Walla MSA	1	Active	1/19/16	1/15/19	Larry Hooker, Rick Jones, Mike Denny	Inland Empire Action Coalition, Kooskooskie Commons, Tri-State Steelheaders Inc., Walla Walla Co Cons Dist.	I	No	Yes	2016

Number	Name	Watershed	Priority (1, 2 or 3)	Status (Con = conceptual, Pro = proposed or Act = active)	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
<a href="#">32-00093B</a>	Implement findings of the Gardena Farms Diversion Dam and Fish Passage Improvement	Walla Walla MSA	1	Conceptual	1/1/10	1/1/16			III	Yes	Yes	2014
<a href="#">00-00329</a>	Walla Walla Flow Enhancement Implementation (Pump Exchange)	Walla Walla MSA	1	Conceptual	1/19/16	1/15/19			III	No	Yes	Unknown
<a href="#">32-00417</a>	Pilot Local Water Management Program	WRIA 32	1	Active	7/1/09	6/30/19	Chris Hyland	Walla Walla Watershed Management Partnership	I	Yes	Yes	Ongoing
<a href="#">32-00263</a>	Irrigation Efficiency Studies Implementation	WRIA 32	1	Conceptual	1/1/13	1/1/16	Chris Hyland	Columbia Conservation Dist., Walla Walla Co Cons Dist.	I	Yes	Yes	Ongoing
<a href="#">32-00161</a>	Palouse Prairie Protection	WRIA 32	2	Conceptual	1/19/16	1/15/19	Dave Karl	Washington Department of Fish and Wildlife	I	No	Yes	
<a href="#">WRIA-35-00006</a>	Riparian Fire Prevention Project	WRIA 35	1	Active	1/5/04	6/30/15		Asotin Co Conservation Dist., Columbia Conservation Dist., Columbia County of, Pomeroy Conservation Dist.	I	Yes	Yes	Ongoing

Number	Name	Watershed	Priority (1, 2 or 3)	Status (Con = conceptual, Pro = proposed or Act = active)	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
<a href="#">35-00082</a>	CCRP Program	WRIA 35	1	Conceptual	1/1/00	6/30/15	Terry Bruegman, Duane Bartels	Columbia Conservation Dist., Pomeroy Conservation Dist.	N/A	Yes	Yes	Ongoing

# 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
<a href="#">A00-00006</a>	Assessment of River Confinement in Priority Areas	Both WRIAs	1	Conceptual	1/29/10	12/31/14			II
<a href="#">A00-00422</a>	Aquire LIDAR and Orthographic Images to Measure Habitat Parameters	Both WRIAs	1	Conceptual	1/29/08	12/31/14			I
<a href="#">A32-00424</a>	Assess The Effect of Land Development	Both WRIAs	1	Conceptual	1/3/05	12/31/14			I
<a href="#">A35-00169</a>	Regionally Assess the Use of Agricultural Chemicals on Upland Areas	Both WRIAs	2	Conceptual	1/1/09	6/6/11			I
<a href="#">A32-00169</a>	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
<a href="#">A32-00551</a>	Assess Storm Water Impacts (Mill Creek)	Mill Creek MSA	2	Conceptual	1/1/09	6/6/11			I
<a href="#">A32-00552</a>	City of Walla Walla Limnology Study	Mill Creek MSA	2	Conceptual	1/1/09	6/6/11			I
<a href="#">A32-00553</a>	City of Walla Walla Return Water	Mill Creek MSA	2	Conceptual	1/1/09	6/6/11			I
<a href="#">A35-00411</a>	Near Shore Assessment WRIA 35	Snake River MSA	1	Conceptual	1/19/10	12/31/14			II
<a href="#">A32-00436</a>	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
<a href="#">A32-00279</a>	Irrigation Efficiency Assessment Upper Touchet River	Touchet Upper MSA	1	Conceptual	1/31/05	12/31/14			I
<a href="#">A35-00047</a>	Tucannon Cobble Embeddedness and Percent Fines Project	Tucannon MSA/mSA	1	Active	7/1/08	12/31/09	Terry Bruegman	Columbia Conservation Dist, US Forest Service	9,000
<a href="#">A35-00246</a>	Tucannon River Sediment Compaction Assessment (Frozen Core Method)	Tucannon MSA/mSA	1	Conceptual	1/7/08	12/31/14			I
<a href="#">A35-00247</a>	Tucannon River LWD Assessment	Tucannon MSA/mSA	1	Conceptual	1/5/09	12/31/14			I
<a href="#">A32-00183</a>	WRIA 32 nutrient enhancement program	WRIA 32	2	Conceptual	6/6/08	1/1/11	Brian Burns	Tri-State Steelheaders Inc	20,000

Number	Name	Watershed	Priority	Status	Start Date	End Date	Project Contact	Sponsor	Estimated Budget
<a href="#">A32-00408</a>	Assess stream Flow in WRIA 32	WRIA 32	1	Conceptual	1/31/05	12/31/14			I
<a href="#">A35-00321</a>	Reduce Ephemeral Sources Routing Fine Sediment in WRIA 35 Streams	WRIA 35	1	Conceptual	1/3/05	12/31/14			II
<a href="#">A35-00349</a>	Assess Effects of Nonnative Predators on Snake River Migrating Salmonids	WRIA 35	1	Conceptual	1/1/09	12/31/14			I
<a href="#">A35-00397</a>	Assess Ground Water Availability for Source Substitution	WRIA 35	1	Conceptual	1/3/05	12/31/14			I
<a href="#">A35-00400</a>	Stream Flow Assessment WRIA 35	WRIA 35	1	Conceptual	1/31/05	12/31/14			II