Richard Devlin Chair Oregon

Chuck Sams Oregon

Mike Milburn Montana

Doug Grob Montana



August 3, 2021

Guy Norman Vice Chair Washington

Patrick Oshie Washington

Jim Yost Idaho

Jeffery C. Allen

#### **MEMORANDUM**

TO: Fish and Wildlife Committee Members

FROM: Karl Weist, Oregon Staff

SUBJECT: Update on Fish and Wildlife Program accomplishments of Soil and

**Water Conservation Districts** 

#### **BACKGROUND:**

Presenter: Herb Winters, District Manager, Gilliam Soil and Water Conservation

District

Summary: Three Soil and Water Conservation Districts in Oregon (Gilliam, Wasco

and Wheeler) will present a summary of their accomplishments in implementing Conservation Reserve Enhancement Program (CREP) enrollments, the establishment of riparian buffers and partnerships with fish and wildlife managers to implement passage projects and water

savings in the John Day Basin.

Relevance: The Council's 2014/2020 Fish and Wildlife Program Part 6, Section II

Investment Strategy identified a series of emerging priorities for implementation, one of which was to "continue efforts to improve floodplain habitat." Protection of riparian areas on private lands is a strategy identified in both the John Day and Fifteenmile Creek subbasin

plans.

Background: Soil and Water Conservation Districts throughout the Pacific Northwest

have served as critical partners for managers to address fish and wildlife limiting factors on private lands. Today's presentation will highlight the

accomplishments of three districts in Oregon.

503-222-5161 800-452-5161 Fax: 503-820-2370 The three SWCD projects in Wasco, Gilliam, and Wheeler Counties in Oregon, funded since 2001 and 2002, implement cost-effective floodplain restoration by protecting riparian buffer areas through enrollments in CREP under the Natural Resources Conservation Service. By protecting riparian areas in critical ESA-habitat corridors in the John Day and 15 Mile Creek Basins before they degrade, Bonneville saves money by not having to spend implementation dollars on costly projects repairing already degraded habitat.

Other SWCDs, not presenting today, implement program strategies in a variety of fashions. Jefferson County SWCD formed a partnership with ODFW in Trout Creek in 1998 to restore passage and protect and restore floodplain habitat for steelhead in that Deschutes River tributary. The partners restored function to more than 13.2 miles of stream channel and floodplain habitat, removed 24 seasonal irrigation barriers, and eliminated two passage barriers, opening an additional six miles of habitat to migrating adult steelhead.

In the Grande Ronde, Union SWCD sponsored significant habitat restoration work through the Grande Ronde Model Watershed in Catherine Creek (CC37, CC44 and Red Mill Reach) and partnered in projects since the 1990s. Wallowa SWCD performed CREP enrollments and habitat enhancement work through the Model Watershed program.

As part of the Willamette Wildlife Mitigation Program, SWCDs purchased property or placed conservation easements on lands for wildlife protection. Three SWCD's own wildlife mitigation parcels – Yamhill SWCD, two properties owned, two in process, one proposed for funding; Polk SWCD, two properties owned; and Clackamas SWCD, one property owned. Total acreage for the three Districts currently stands at 1281 owned with another 738 acres proposed and in process.

More Info: http://www.wascoswcd.org/ http://www.wheelerswcd.org/

https://www.jeffswcd.org/about

https://yamhillswcd.org/

https://www.polkswcd.com/

https://conservationdistrict.org/

http://unionswcd.org/ https://www.grmw.org/data/database/

Note: The Oregon portion of this agenda item also includes a presentation on **Mid-Columbia Riparian Buffer Projects**, which is only available as a Prezi presentation.

See this link: <a href="https://prezi.com/view/bX3AIjUTNaDecUFXNGzg/">https://prezi.com/view/bX3AIjUTNaDecUFXNGzg/</a>

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#### **MEMORANDUM**

TO: Fish and Wildlife Committee Members

FROM: Steve West, Idaho Staff

SUBJECT: Update on Fish and Wildlife Program accomplishments of Soil and

**Water Conservation Districts in Idaho** 

#### **BACKGROUND:**

#### Presenters:

- Karma Bragg, District Manager, Custer Soil and Water Conservation District
- Bob Minton, Lemhi Soil and Water Conservation District.
- Ken Stinson, District Manager, Latah Soil and Water Conservation District
- Lynn Rasmussen, District Manager, Nez Perce Soil and Water Conservation District

Summary: Four Soil and Water Conservation Districts in Idaho, will present a

summary of their accomplishments with specific emphasis placed on establishing riparian buffer zones, private landowner relations and overall

objectives within the basin.

Relevance: The Council's 2014/2020 Fish and Wildlife Program Part 6, Section II

Investment Strategy identified a series of emerging priorities for implementation, one of which was to "continue efforts to improve

floodplain habitat."

Background: Soil and Water Conservation Districts throughout the Pacific Northwest

have served as critical partners for managers to address fish and wildlife

503-222-5161 800-452-5161 Fax: 503-820-2370 limiting factors on private lands. Today's presentation will highlight the accomplishments of four districts in Idaho.

The four SWCD projects in Lemhi, Custer, Latah, and Nez Perce Counties in Idaho, implement habitat actions benefitting ESA listed species as mitigation for the hydroelectric systems. Projects implemented by the districts involve irrigation efficiency, riparian plantings, floodplain reconnection, barrier removal and habitat protection to name a few.

Two other SWCD's, Idaho and Lewis Counties, do implement projects on private lands but do not have access to mitigation funding and are not presenting today.

A key component of success for the districts has been the private landowner relations. The majority of spawning for Chinook salmon within the Upper Salmon Basin occurs on private land. Work in the Clearwater basin is focused primarily on wild steelhead on private lands in the Potlatch River and Lapwai Creek watersheds. Without the continued support of these agricultural producers, the districts wouldn't be able to implement the habitat actions.

#### More Info:

Conservation the Idaho Way | Lemhi Conservation District (Lemhi CD)
Custer Soil & Water Conservation District - Home (custerdistrict.org)
Latah Soil & Water Conservation District - Home (www.latahswcd.org)
Nez Perce Soil & Water Conservation District - Home
(www.nezperceswcd.org)

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#### **MEMORANDUM**

TO: Fish and Wildlife Committee Members

FROM: Stacy Horton, Washington Staff

SUBJECT: Update on Fish and Wildlife Program Accomplishments of Soil and

**Water Conservation Districts** 

#### **BACKGROUND:**

Presenters: Aneesha Dieu, District Manager, Columbia Conservation District will be

presenting on Tucannon Stream and Riparian Restoration.

Megan Stewart, District Coordinator for the Asotin County Conservation District will present on the work conducted as part of the Asotin County

Enhancement and Restoration Project.

Summary: As the 2014 Columbia River Basin Fish and Wildlife Program notes,

partnerships and collaboration at local scales can make management actions sustainable, effective, and efficient. Local implementors can provide unique opportunities that extend the reach of the benefits of habitat work. The Soil and Water Conservation Districts (SWCD) have been an important connection to the land and their work has provided benefits for fish and wildlife habitats, utilizing teamwork and cooperation to

produce successful outcomes.

Aneesha Dieu, Tucannon Stream and Riparian Restoration

The work conducted by the Columbia Conservation District (CCD) and others in the Tucannon River watershed is important for its support of the only remaining population of spring Chinook (Oncorhynchus tshawytscha) in the lower Snake River, as well as Snake River fall Chinook, Snake River summer steelhead, and bull trout. Implementation of projects is

503-222-5161 800-452-5161 Fax: 503-820-2370 guided by assessment tools and planning designed to restore Tucannon River geomorphic and ecological processes. Aneesha will brief the Council on some of the restoration actions to date to restore a healthy floodplain and naturally functioning river channel.

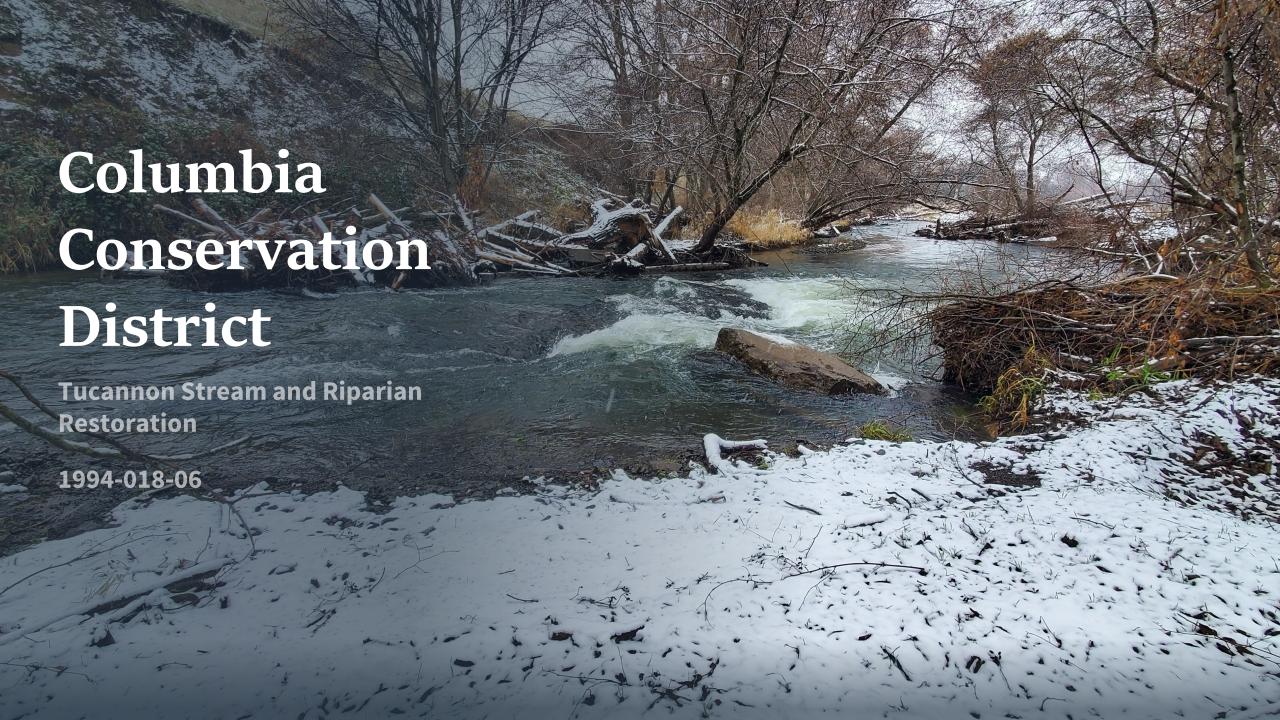
Megan Stewart, Asotin County Enhancement and Restoration Project Restoration efforts by the Asotin County Conservation District (ACCD) engages partners in strategies that will protect and maintain natural processes, remove barriers, and reconnect habitats. ACCD builds on prior improvements, with a goal to expand efforts that improve spawning and rearing conditions for ESA-listed salmon, steelhead, bull trout and Pacific lamprey. Not only does the ACCD provide important coordination, collaboration, and habitat improvement projects, they have also provided cost share of over \$7M to the effort.

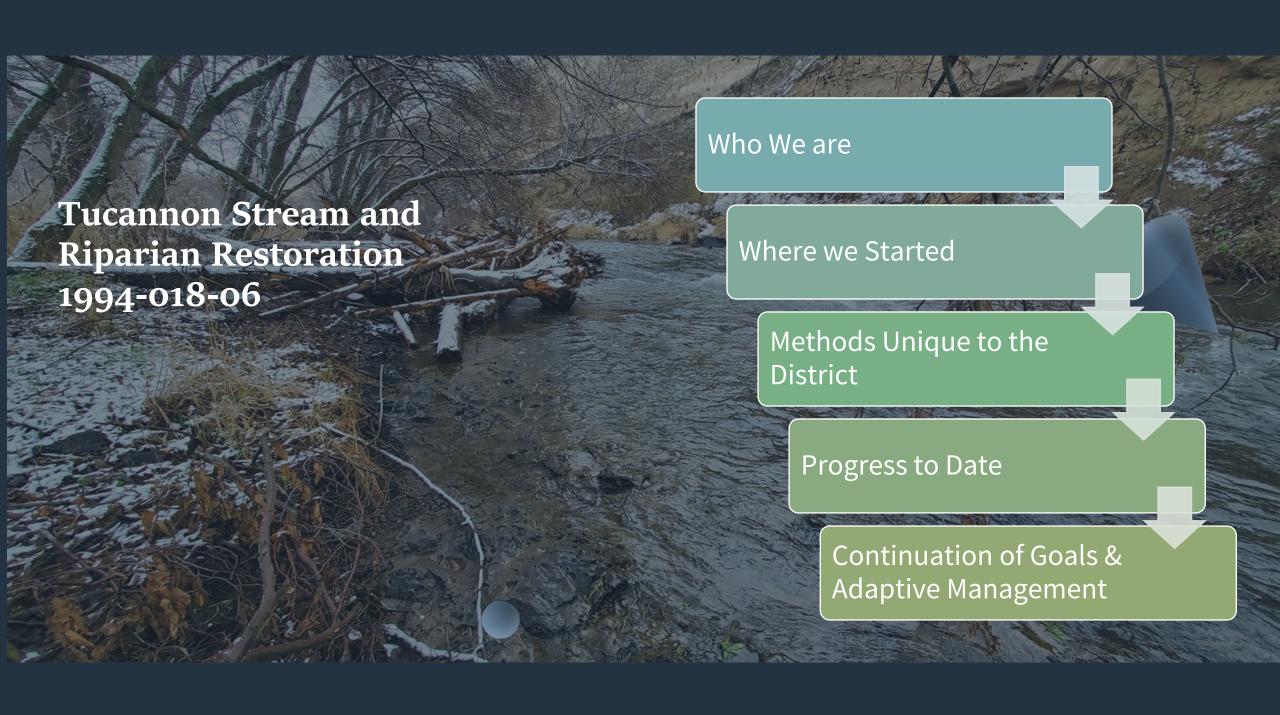
#### Relevance:

The 2014 Columbia River Basin Fish and Wildlife Program calls for the identification and protection of aquatic areas and conditions to restore and enhance productive habitats. Where possible, reconnection of habitat aquatic areas, riparian zones, floodplains, side channels, and uplands is especially important.

#### More Info:

Tucannon Basin Habitat Restoration – Geomorphic Assessment and Restoration Prioritization. Anchor QEA, 2021. <a href="https://snakeriverboard.org/wp-content/uploads/2021/02/Tucannon\_GARP\_Report\_FINAL\_2021-01-26.pdf">https://snakeriverboard.org/wp-content/uploads/2021/02/Tucannon\_GARP\_Report\_FINAL\_2021-01-26.pdf</a>





#### Who We Are

- Trusted
- Non-regulatory
- Understanding
- Innovative
- No "one-shoe-fits-all"
- Voluntary Solutions



#### Where We Started

1997, Draft Tucannon River Model Watershed Plan, "Strategy For Salmon", NRCS Stream Team.

1999-2000, Tucannon River Water Quality Monitoring, WSU Water Center.

2001, Limiting Factor Study, Washington State Conservation Commission.

1998, 1999, 2002, 2004, Instream Habitat Project Evaluation Reports contracted-WDFW SRL.

2003-2011, provided 16 additional temperature monitors to WDFW Snake River Labs for continued data collection from May to October.

Data showed decreasing water temperature from a high of 76 degrees in 1990-1992 to a high of 65 degrees in 2006-2011

2004, Tucannon Subbasin Plan.

2005, Tucannon River Model Watershed Plan Milestone Assessment, Parametrix.

2006, Tucannon River Temperature Study Draft June 30, HDR.

2008-2011, Cobble Embeddedness & Percent Fines Project-Tucannon River & Tributaries, USFS.

2010, LiDAR assessment on 51 miles of the Tucannon River Basin, Watershed Sciences.

2011, Geomorphic Assessment & Habitat Restoration Study, Tucannon River, Anchor QEA.

2011, Conceptual Restoration Plan, Reaches 6 To 10 Tucannon River Phase II, Anchor QEA.

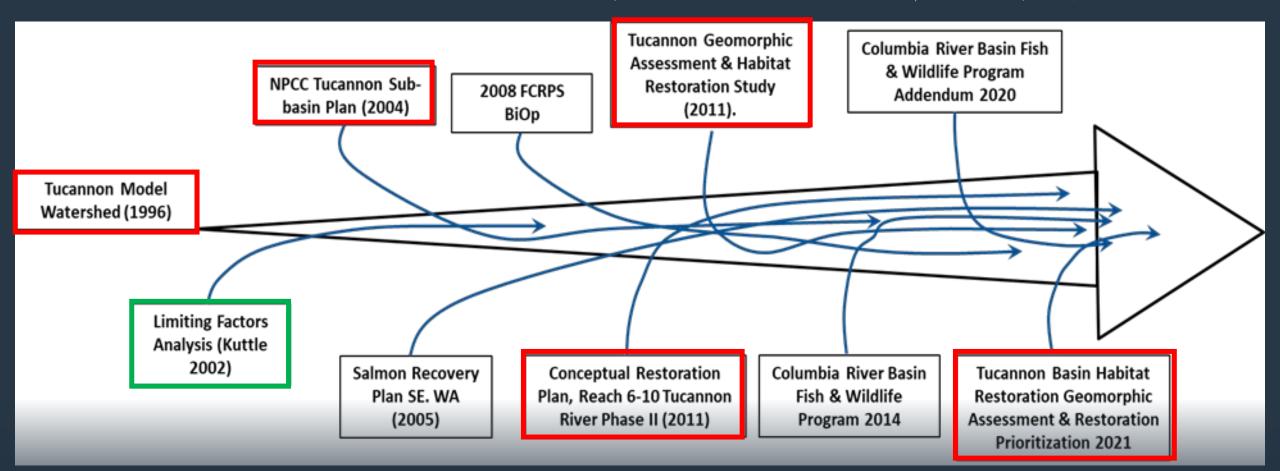
2011, Design Restoration Feature Prioritization, Tucannon River Reach 2, Anchor QEA.

2012, Integrated Species Restoration Prioritization Tucannon River, Anchor QEA.

2012, Conceptual Restoration Plan, Reaches 3 & 4 Tucannon River RM 4.5 - 13.4, Anchor QEA.

2013, Conceptual Restoration Plan, A system wide approach to habitat restoration on the Tucannon River, Anchor QEA.

2021, Tucannon Basin Habitat Restoration Prioritization and Conceptual Restoration Plan, Anchor QEA 2021.





### Who We Collaborate With

- Bonneville Power Administration & Programmatic
- Landowners
- Washington State Conservation Commission
- Snake Salmon Recovery Board
- Recreation and Conservation Office
- Confederated Tribes of Umatilla & Nez Pierce Tribes
- Washington State Department of Fish and Wildlife
- Washington State Department of Ecology
- US Forest Service

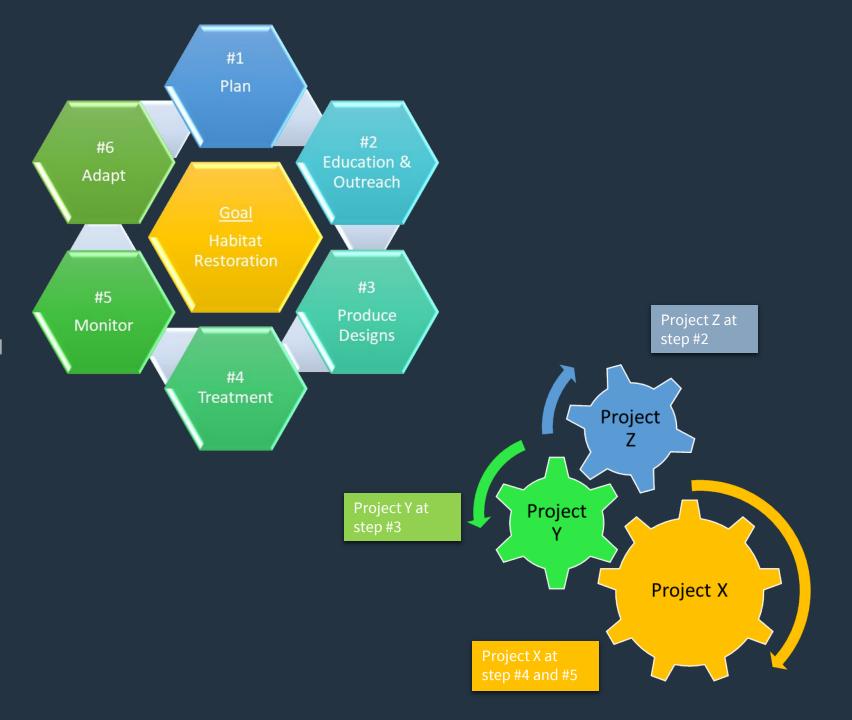


#### Private Landowners

- Majority of Projects are on Private Lands
- Multiple Opportunities
- Lasting Relationships
- Trustworthy
  - Community Outreach & Education

#### Methods

- Consecutive Projects Year to Year
- Mediators between Landowner and Funding Source
- Backbone for Restoration
   Opportunities



#### Progress To Date and Our Future Prospects

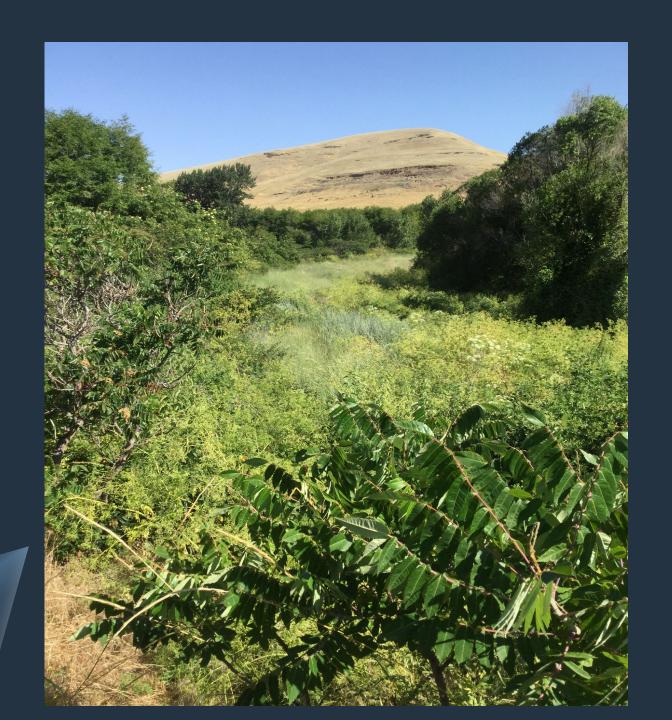
- CREP
- Irrigation Efficiencies
- Natural Resource Investment (NRI)
- Volunteer Stewardship Program (VSP)



#### Progress To Date

#### 1994-2004

- Improved ~7 miles of stream
- Created ~140 pools
- Removal of 27 fish Screens
- Reduced Conventional Tillage by 7051 acres
- Increased Riparian Buffers ~1200 acres
- Planted close to 230,000 trees and shrubs
- Built ~22 miles of access control fencing



#### PA 32 Restoration Project

- Reconnection of ~27 acres of Floodplain
- Removal of ~670' levee
- Placement of 54 LWD structures instream and on the floodplain

#### Benefits Increase:

- Perennial side channels by 776'
- 255 LWD key pieces
- 57 jams
- 15 pools and pool size by 1224 m<sup>2</sup>



#### Cost Benefit Analysis

#### Funding Sources:

 BPA, SRFB via RCO, WSCC, WSDOE, USDA, landowner

#### Allocation:

- 2/3 Habitat Restoration Activities
- 1/3 Operational Costs

#### <u>Total Cost Share: \$5,098,803</u>

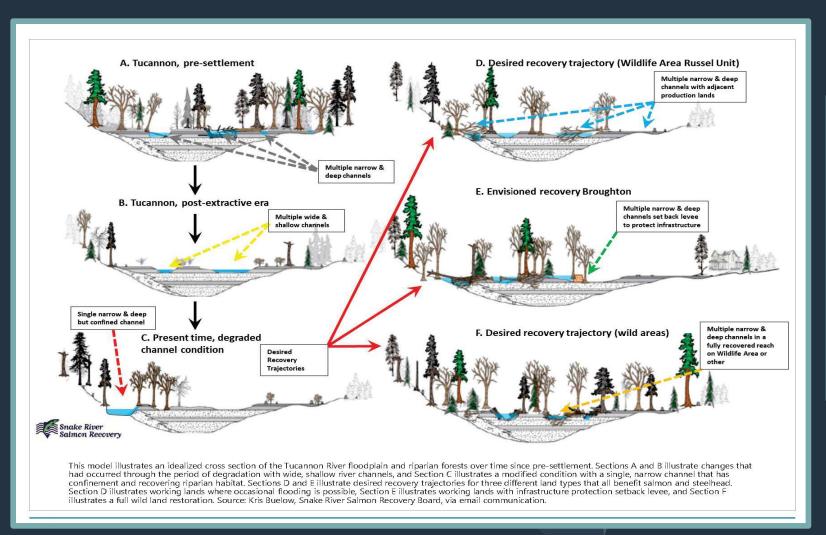
94-04: \$2,580,294

• 05-06: \$354,457

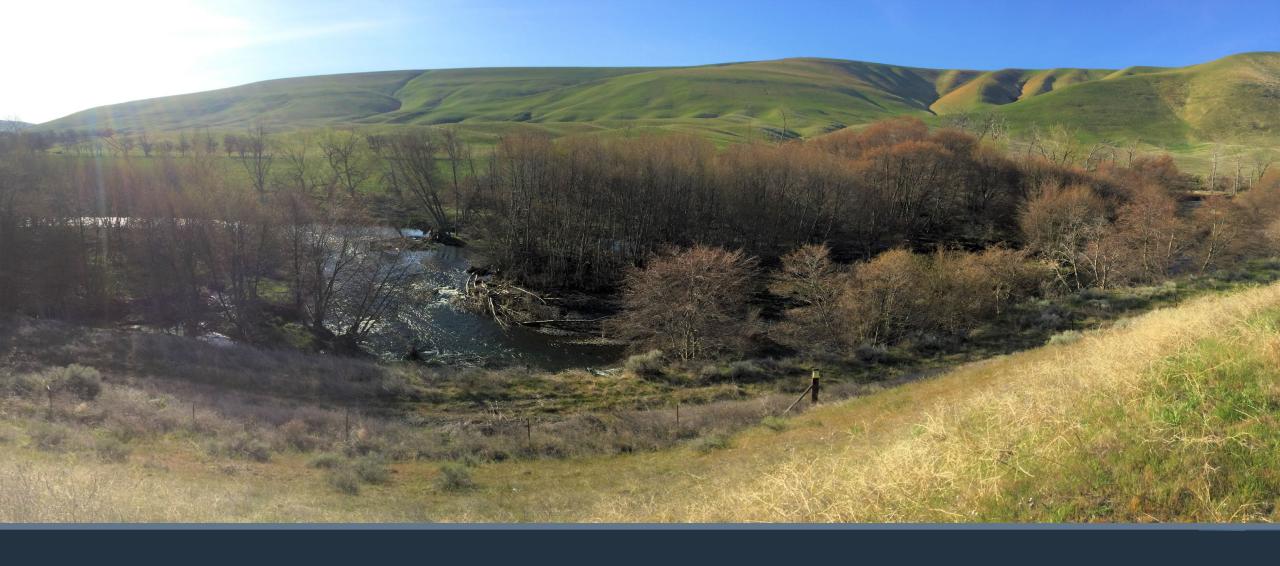
• 07-20: \$2,164,052



#### Continuation of Goals & Adaptive Management







Thank You for Listening & for the Continued Support in Restoring the Tucannon Watershed

## Asotin County Conservation District

Megan Stewart, District Coordinator

PROJECT: 1994-018-05



#### Lower Snake-Tucannon Lower Snake-Asotin Lower Grande Ronde 5/1/2021 Project Proposal Location

ASOTIN COUNTY
CONSERVATION DISTRICT

#### Conservation in Asotin County

- Ridge Top to Ridge Top Restoration
  - Instream
  - Riparian
  - Rangeland
  - Cropland
  - Forestland

#### Past Restoration Efforts - Cropland

Direct Seed – Residue Management Farmland Conversion – Perennial Cover Establishment Erosion Control
Structures – Sediment
Basin, Terraces,
Grassed Waterways







#### Past Restoration Efforts - Rangeland

- Grazing Management
- Livestock Water Developments
- Fencing
- Weed Control
- Grass Planting









#### Past Restoration Efforts – Livestock Feeding

- Alternative Water Developments
- Feed Area/Corral Relocation
- Heavy Use Feed Pads
- Manure Containment

















Past Restoration Efforts - Forestland

- Thinning Pruning
- Fuel Reduction
- Timber Health

#### Past Restoration Efforts - Riparian

Planting – Trees, shrubs and grass

Fencing – Livestock exclusion

Weed Control









#### Past Restoration Efforts - Stream



Stream
Crossing
Access



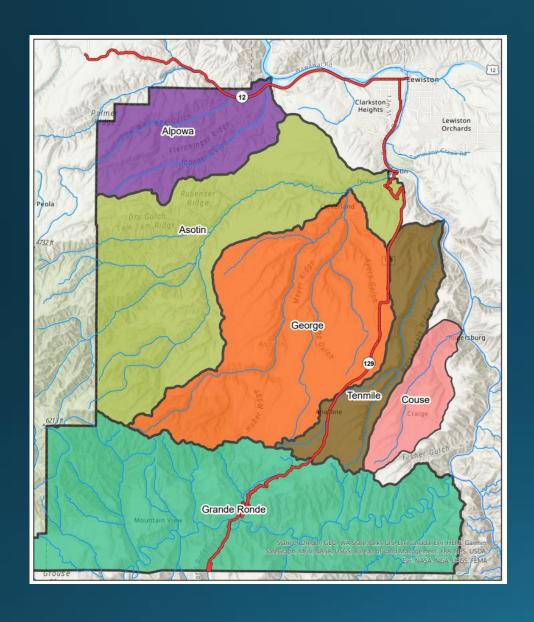
#### What's to come...





Continuation of restoration efforts

Shift in focus areas



#### Geomorphic Assessments

- Two Phases:
  - 1. Asotin, George, Tenmile, Couse, Alpowa
  - 2. Grande Ronde
- Evaluation of Conditions
  - Identify current limiting factors
- Restoration Strategies
  - Protect and maintain natural processes
  - Remove barriers and reconnect habitat
  - Restore long-term processes
  - Restore short-term processes

#### Conceptual Restoration Plans

- Guide to future restoration
- Prioritization of project areas in each watershed
- 100+ project areas identified
  - Current Condition
  - Reach Type
  - Limiting Factors
  - Fish Species & Life Stages



#### Fish Species, Location and Usage

| *           | Steelhead                        | Asotin County Watersheds                     | Migration, Spawning, Rearing, Holding       |
|-------------|----------------------------------|--|---|
| *           | Spring Chinook<br>Summer Chinook | Asotin & Alpowa Creeks<br>Grande Ronde River | Migration, Spawning, Rearing, Overwintering |
| <b>&gt;</b> | Fall Chinook                     | Asotin Creek<br>Grande Ronde River           | Migration, Spawning                         |
| <b>*</b>    | Bull Trout                       | Asotin & George Creeks<br>Grande Ronde River | Migration, Spawning, Rearing                |
| <b>&gt;</b> | Pacific Lamprey                  | Asotin Creek                                 | Migration, Spawning, Rearing                |

#### Habitat Goals & Objectives - Instream

#### Main Channel

- Improve complexity on ~68,000 feet of stream
- 2,500+ low tech and engineered structures
- Focus on pool development

#### Side Channel

- Connect ~6,000 feet of side and flood channels
- 200+ structures installed
- Promote habitat complexity

#### Floodplain

 50+ acres connected at the 2-year event

# Habitat Goals & Objectives - Riparian

#### Riparian protection and enhancement

- 125+ acres
- 42,000+ feet of stream with livestock exclusion

18+ alternative water developments

4 stream crossings

#### Weed management plans

- 16 plans
- +120 acres

#### Riparian forest buffer enhancement

- 36,000 native trees and shrubs
- 10 acres native grass

# Habitat Goals & Objectives - Upland

#### Residue Management – Direct Seed or Perennial Cover

- 95% cropland currently goal of 98%
- 2,000 new acres

#### Rangeland Assessments

- 12 assessments & grazing plans
- 8,000 acres rangeland improved

#### Weed Management

- 40 weed management plans
- Resulting in 3,600 acres treated









#### PARTNERS IN CONSERVATION



Assisting, protecting, and restoring Asotin County's natural resources.











### Thank you!

