Pelton Round Butte Fisheries Workshop - 2024



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Jefferson County SWCD

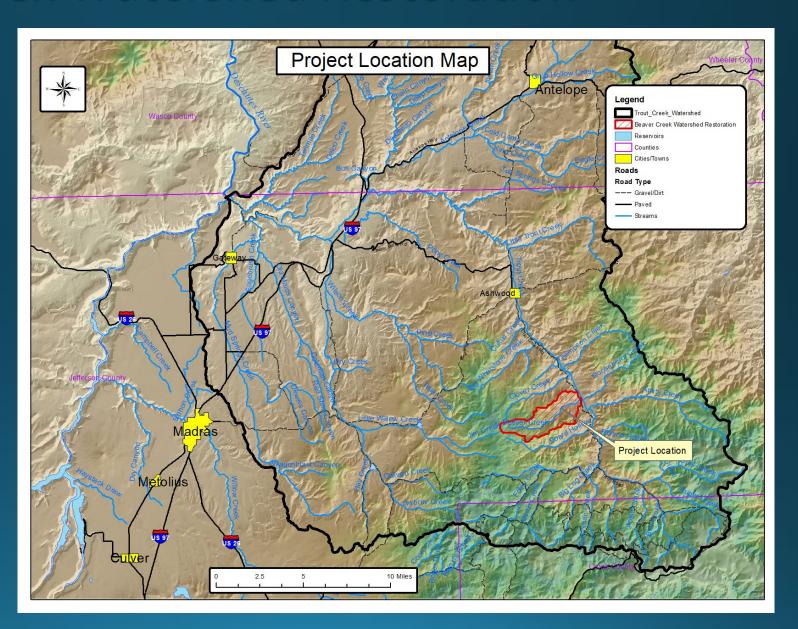
Trout Creek Watershed:

- 700 square miles
- Largest east side trib to the lower Deschutes
- 15-25% of Summer Steelhead production in the Deschutes River



Beaver Creek Watershed

- 3,800 acres
- Juniper/Grassland to mixed conifer
- Three landowners



<u>Improve:</u>

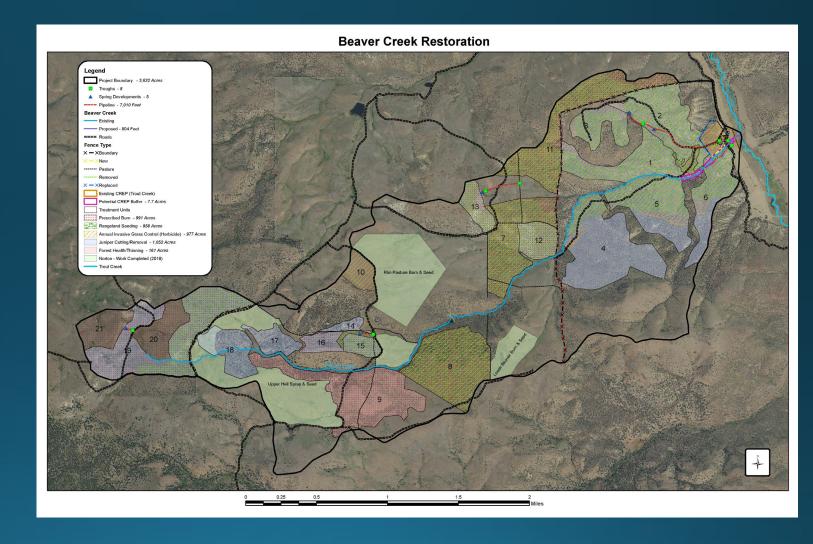
- Fish Passage & Habitat
- Wildlife Habitat
- Uplands for livestock grazing



Wild Summer Steelhead Adult in Beaver Creek (Below Culvert) - March 15, 2007

Original Planned Treatments

Juniper Removal – 1,246 Ac Forest Stand Improv. — 161 ac Annual Grass Treatment – 1,081 Ac Range Seeding – 938 Ac Spring Developments – 6 Prescribed Burns – 699 ac Fence Removal – 3,343 ft Fence Construction – 1,982 ft Culvert Replacement – 1 Channel/Floodplain Improv. – 804 ft



Funding Sources:

OWEB - \$278,832

BPA - \$142,151

PGE - \$51,000 (-\$228,902)

Jefferson County - \$15,000

Landowners – \$333,129 (In-Kind)





Total: \$805,112





Revised Planned Treatments

Juniper Removal – 597 ac (-649 ac)

Forest Stand Improv. — 161 ac

Annual Grass Treatment — 720 ac (-361 ac)

Range Seeding – 711 Ac (-227 Ac)

Spring Developments – 6

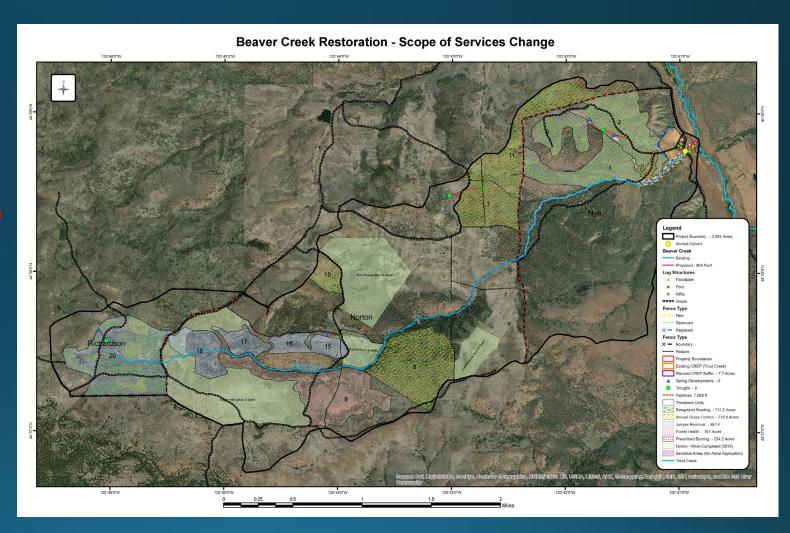
Prescribed Burns – 234 ac (-465 ac)

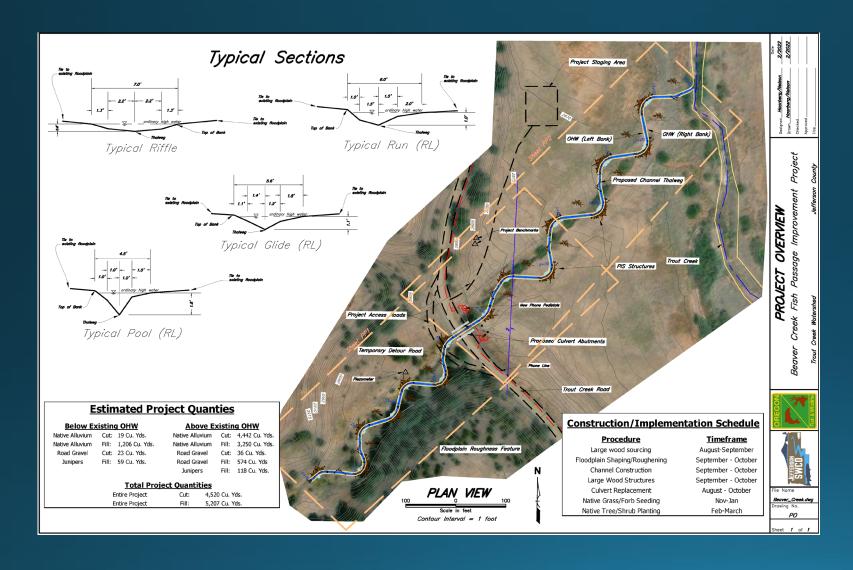
Fence Removal – 3,343 ft

Fence Construction – 1,982 ft

Culvert Replacement – 1

Channel/Floodplain Improv. – 804 ft





Project Design:

- Total Station Survey
- AutoCAD, HEC-RAS & ArcMap
- Field Data Collection

Jurisdictional Agencies:



















Now we are ready to start implementation!

- And then there was Covid...
- But we persevered!



Juniper Removal:

- 597 acres
- Pulled by excavator, pushed by dozer, and cut by chainsaw.
- Trees piled and burned



Junipers pulled and piled by excavator - March 2020

November 2019

Before



After

Before



After







<u>Annual Grass</u> <u>Treatment:</u>

- 700 ac
- 450 ac from Helicopter
- 6 oz/acre Plateau (Imazapic)



Medusahead, Ventenata and Cheatgrass sprayed from helicopter – October 2021

Rangeland Seeding:

- 700 acres
- Range drill and broadcast



Seeding with ODFW's Range Drill — Spring 2023

Spring Developments:

- 4 springs
- 11 troughs



Fish Passage:

- Replaced perched 6' culvert with 18' bottomless culvert
- Removed barrier at RM 0.1, allowing access to 3 miles of habitat upstream





Fish Habitat/Floodplain Connection:

- Channel length: 150' increase on lower 1/4 mile of stream
- Pools: 2 to 15 increase





Fish Habitat/Floodplain Connection:

• Floodplain Access: Increased from 1 to 2 acres



Incised Channel (Before) – November 2019



Connected Floodplain (After) – June 2024

Fish Habitat/Floodplain Connection:

- Planting: Broadcast 4 acres with native grass and forbs.
- Planted 500 1-gallon rooted trees/shrubs with expandable tree planter



Native grass – June 2023



Tree Planting – February 2024



Planted Aspen – April 2024

Lessons Learned:

- Noxious weeds (annual grasses) are ongoing issue. Plateau not adequate. Future preemergent treatment will be Rejuvra
- Vegetation management/maintenance is ongoing task after project completion
- Landscape-scale prescribed fires is extremely difficult in the ODF Protection Areas



Annual Rye Treatment – Nov 2023

