

Several Glacial Events Helped Form Silver Creek





Big Wood River

Timmerman Hills

lver Creek

Google Earth





First Lake Formed After Glacial Event

Big Wood After First Lava Flow

Google Earth



Second Glacial Event Forms New Lake

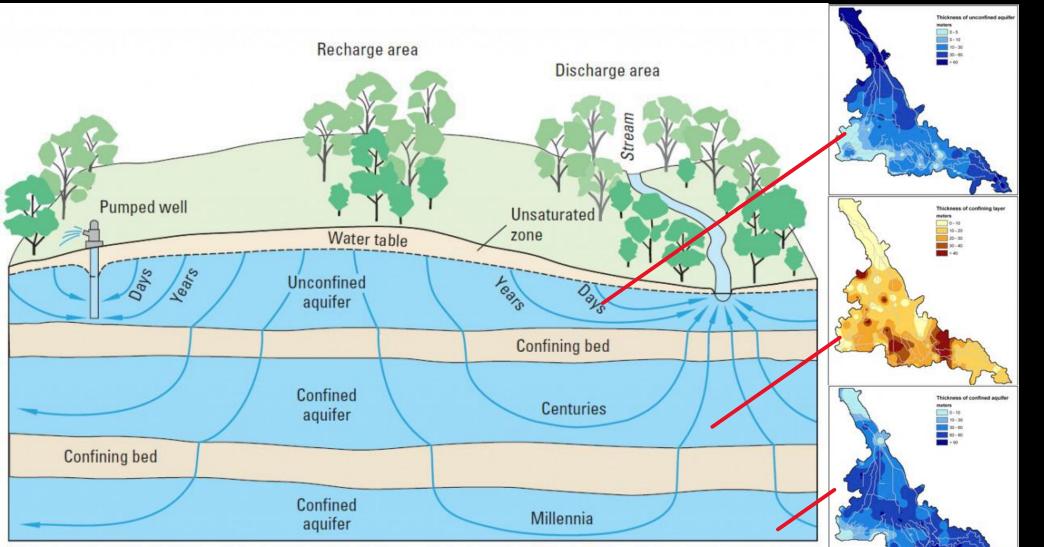
Silver Creek is Formed.

Google Earth



Wood River Valley Aquifer-Silver Creek.

The Timmerman Hills are the reason Silver Creek exists.



Unconfined Layer 0->60 feet thick

Confined Layer #1 1->40 feet thick

Confined Layer #2 0->90 feet thick

The Native Fish of Silver Creek



Large Scale Sucker



Bridgelip Sucker



Longnose Dace

Wood River Sculpin



Redband Rainbow



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Whitefish (Last whitefish noted in SC-1991)



The Invasive Fish of Silver Creek

Brown Trout (First 30k fry introduced in Little Wood in 1970)



Brook Trout (Virtually gone except in upper tribs.)



Western slope Cutthroat (Introduced on South side of Galena)



Costal Rainbow Trout (and several other rainbow species)



Hayspur hatchery has been in operation since 1907 (oldest in Idaho)

Projected Eyed Egg Need

Ten (10) million. Needed throughout the year, but the majority of the eggs are requested between September and February.

Founding Population

The Hayspur rainbow trout was derived from various strains of rainbow stocked into the large earthen brood pond at the Hayspur Fish Hatchery since 1906. Some strains used include native Silver Creek and Big Wood River fish (probably derived from Redband and McCloud strain rainbow), brood fish from American Falls Hatchery (fish trapped in Rock Creek, a tributary to American Falls Reservoir), fish from the Rogue River, and "escapees" from various domestic strains raised at Hayspur (Shasta, Ennis, Mt. Lassen, and Arlee). Typically over 1,000 trout per year have been stocked into the pond as broodstock replacements.

Fishery Performance

Hayspur rainbow trout have typically returned to the angler's creels at rates at least equal to other strains tested (Maiolie and Partridge 1985). With good management, return rates of

Rainbow Trout Hayspur Hatchery

Hayspur Fish Hatchery 1946



2023 IDF&G Fish Survey

Method used: mark-recapture Time frame: Every 3 years Total trout 2023: 1913 No. of transects: 3 Density of fish: 1913 fish per km. Percentage: Brown 59% Rainbow 41% Increase in density in Stalker Creek. Decrease in density's in TNC and Willows. Annual mortality rates: Rainbow- 66% Brown- 38% Avian populations possible cause for increase in mortality. Long term trends show stability in system.







Pelicans

- Pelicans have been around a long time.
- The populations are increasing
- Silver Creek is easy pickings
- US Fish and Wildlife has been hazing for several years and will continue.
- Last 2 years have seen less birds on the Creek





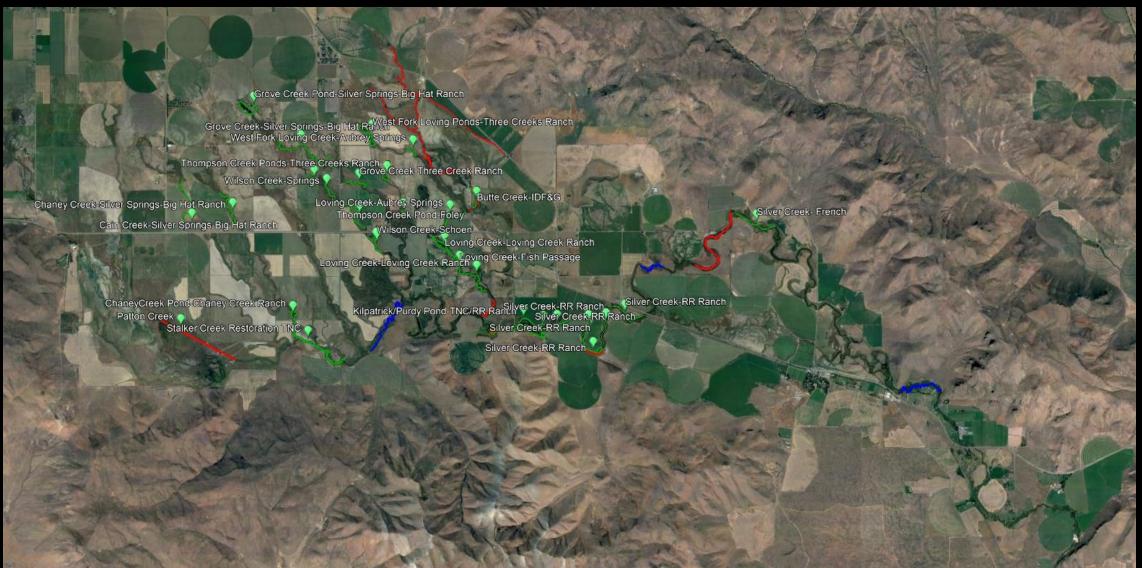
Yellow Flag Iris

Highly invasive From Asia 2019-Over 2500 plants treated in first year. 2023- Roughly 100 plants treated Continued monitoring





Silver Creek Restoration-1960's to Present



Silver Creek-Rin

Restoration of Stalker Creek 2022



Stalker Creek 2023



A 1.9 Million Dollar Grant!

That's right! With the dedicated efforts of Erika Phillips of the Nature Conservancy, a 1.9 million dollar grant from BOR was secured for restoration of Loving Creek.



The grant was matched for funding from:

- Silver Creek Alliance
- Nature Conservancy
- Idaho Department of Fish and Game
- Landowners on Loving Creek



Upper Loving Creek Restoration



Loving Creek Restoration Butte Creek (IDF&G)



Lower Loving TNC



Future Projects in Planning

Upper Loving Creek



Access for All



Point of Rocks

Buffer Zones





Protection of Silver Creek Spring System



Silver Creek Spring

The Fishery, why so up and down?

- Fisheries are cyclic
- Climate is a wild card
- In Silver Creek-flows are everything



- Period of approved data
- 🔺 Value affected by equipment malfunction.
- Period of provisional data

January 15 2024



Water, Water, Water!

We can control water for Silver Creek

- Awareness and understanding
- Planning
- Conservation
- Cooperation

Dry spring head





The Future for Silver Creek

- The future of Silver Creek depends on us.
- Understanding the Creeks needs.
- Education
- Cooperation
- Funding the work
- Restoration Planning for the future
- Stability is possible in drought
- New tools for water use: Ground Water-Flow Model

Silver Creek and Big Wood Water Quantity and Quality Forecasting Tools



Silver Creek Assessment Report for The Nature Conservancy and Silver Creek Alliance May 2020





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A Success Story on Loving Creek



SaveSilverCreek.com SilverCreekAlliance.org Nature.org EcosystemSciences.com

Questions?

