

Administering Minimum Streamflows in Idaho with Voluntary, Market-Based Water Transactions

A Primer in Idaho Water Law and 20 years of Water Transactions in the Upper Salmon Basin

Water Resource Board





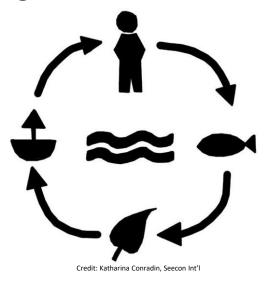
WTP: Success & **Lessons Learned Water Transactions** Program: What, Where, Why, How Idaho Water Law: **Common Misconceptions** Idaho Constitution: Water Law Philosophy & Legal Framework



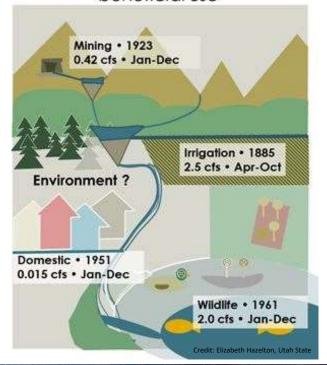


Prior Appropriations Doctrine

- First in time, First in Right
- Priority Date
- Beneficial Use



Everyone and everything needs a water right with a priority & beneficial use











Idaho Constitution - Article 15. Sections 1-7.

"Use of all waters ...hereby declared to be a public use, and subject to the regulations and control of the state in the manner prescribed by the law." & "...priority in time shall give superiority of right to the use of such water."

First in time, first in right.

Idaho Legislature

Idaho Department of Water Resources

IDWR mission is to serve the citizens of Idaho by ensuring that water is conserved and available for the sustainability of Idaho's economy, ecosystems, and resulting quality of life.

Water Rights
Adjudication and
Compliance

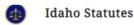
Idaho Water Resource Board

IWRB is responsible for the formulation and implementation of a state water plan, financing of water projects, and the operations of programs that support sustainable management of Idaho's water resources.

Water Supply Bank and Water Transactions Program











- Governor-appointed
- 8-members, serve 4-year term
- Bi-partisan (4 members from each political party)
- Represent 4 Districts that encompass all geographic locations of the state
- Fund projects and programs for sustainable management of Idaho's water

TITLE 42 IRRIGATION AND DRAINAGE - WATER RIGHTS AND RECLAMATION

CHAPTER 17 DEPARTMENT OF WATER RESOURCES - WATER RESOURCE BOARD

42-1732. IDAHO WATER RESOURCE BOARD. Fursuant to the provisions of article 15, section 7, of the constitution of the state of Idaho, there is hereby established as the constitutional water agency within the department of water resources the Idaho water resources the Idaho water resources the Idaho water resource board which shall consist of eight (8) appointed members. The eight (8) appointed members shall be qualified electors of the state, no more than four (4) of whom shall be members of the same political party. Appointment of board members shall be made solely upon consideration of their knowledge, interest and active participation in the field of reclamation, water use or conservation and no member shall be appointed a member of the board unless he shall be well informed upon, interested in, and engaged actively in the field of reclamation, water use or conservation of water. Four (4) of these members shall be appointed at large and no more than three (3) of the eight (8) members shall be residents of a single district. To insure representation of water users of all geographic locations of the state, one (1) member shall be appointed from each of the following districts:

District No. 1 which shall consist of the counties of Boundary, Bonner, Kootenai, Shoshone, Benewah, Latah Clearwater, Nez Perce, Lewis and Idaho;

District No. 2 which shall consist of the counties of Adams, Valley, Washington, Payette, Gem, Boise, Canyon, Ada, Elmore and Owyhee;

District No. 3 which shall consist of the counties of Camas, Gooding, Jerome, Twin Falls, Cassia, Blaine, Lincoln, Minidoka, Lemhi, Custer and Butte;

District No. 4 which shall consist of the counties of Clark, Fremont, Jefferson, Madison, Teton, Bingham, Bonneville, Power, Bannock, Caribou, Oneida, Franklin and Bear Lake.

All appointments shall be made by the governor with the advice and consent of the senate. As soon as practicable after passage of this act, the governor shall appoint all eight (8) members; four (4) members shall be appointed to terms which will expire on January 1, 1967, four (4) members shall be appointed to terms which will expire on January 1, 1969, and thereafter all appointments shall be to four (4) year terms. Any vacancy caused by death, removal, disqualification, or resignation, shall be filled by the governor for the unexpired term caused by the vacancy. The appointed members shall be compensated as provided by section 59-509(h), Idaho Code.

History:

[42-1732, added 1965, ch. 320, sec. 2, p. 901; am. 1974, ch. 20, sec. 22, p. 533; am. 1980, ch. 247, sec. 42, p.









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WATER RIGHT REPORT

1/6/2022

IDAHO DEPARTMENT OF WATER RESOURCES

Water Right Report

WATER RIGHT NO. 74-15834

Owner Type Name and Address Current Owner SHINER RANCH INC

Tributary

- Who Own's the WR
- What's the Priority Date
- Where's the water From
- What's the Beneficial Use
- Season of Use and MAX **Diversion Rate**
- Where's the Point-of-Diversion
- Where's the Place-Of-Use
- What's the MAX irrigated acres under the right

Common Misconceptions

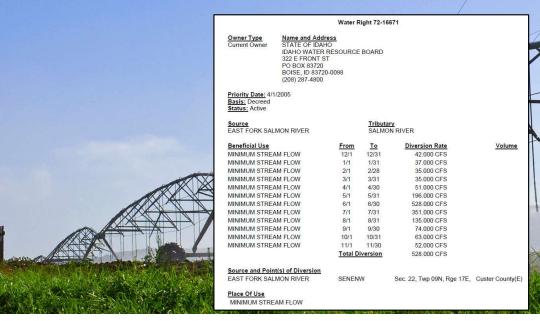
- Point-of-Diversion and Place-of-Use
 - Diversion Rate (CFS) and Acre Limits
 - https://maps.idwr.idaho.gov/agol/WaterRightLocator/



Total Acres: 36.1

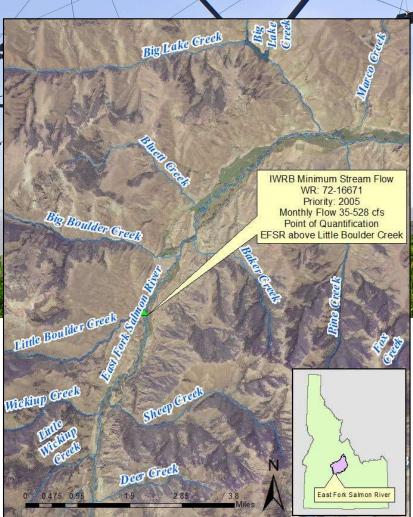


Water Resource Board





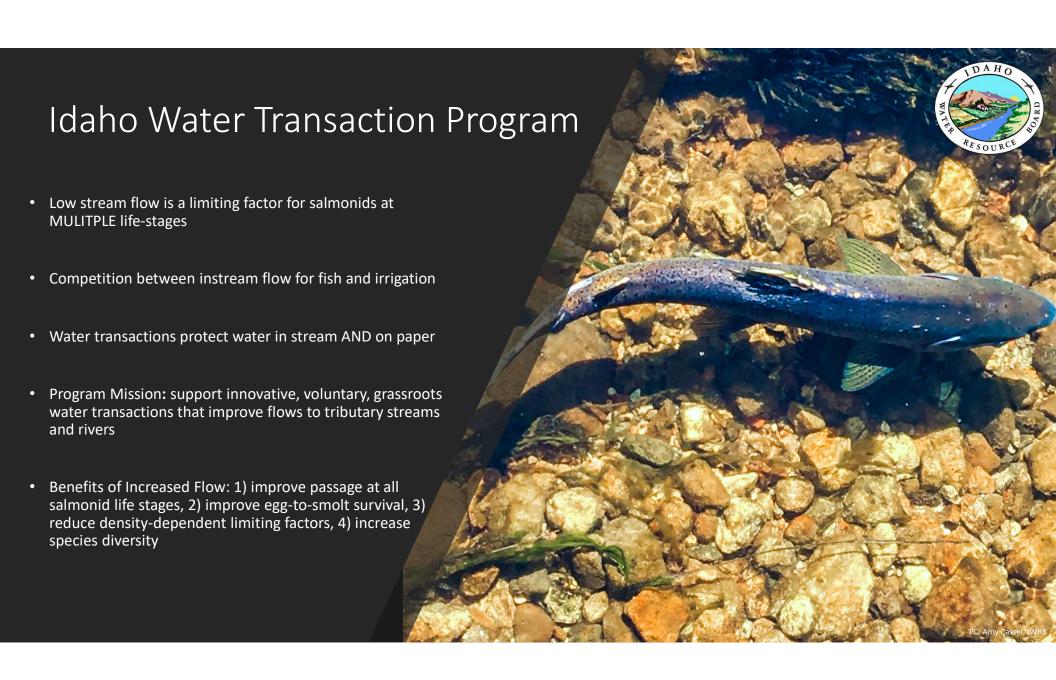
- Minimum Stream Flow WR ≠ In-Stream Flow
 - Priority Date Matters
 - Water Transactions = In-Stream Flow @ Minimum Stream Flow WR's
- Minimum Stream Flow vs Target Flow
 - Actual WR vs Landowner Agreement





Common Misconceptions

- Minimum Stream Flow WR ≠ In-Stream Flow
 - **Priority Date Matters**
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Idaho Water Transaction Program



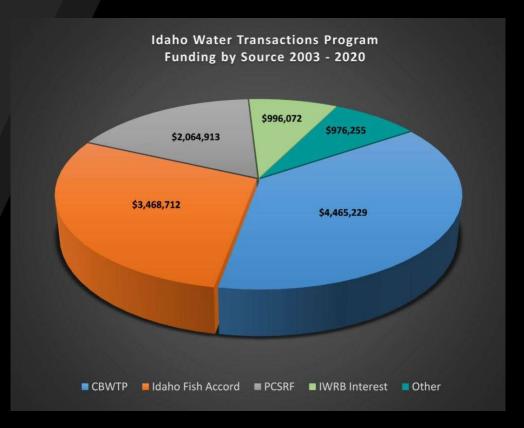












Source Switch Projects/ Administrative Agreements

- Reconnect tributaries
- New POD via WR Transfer
- New irrigation infrastructure
- 20-yr Administrative Agreement

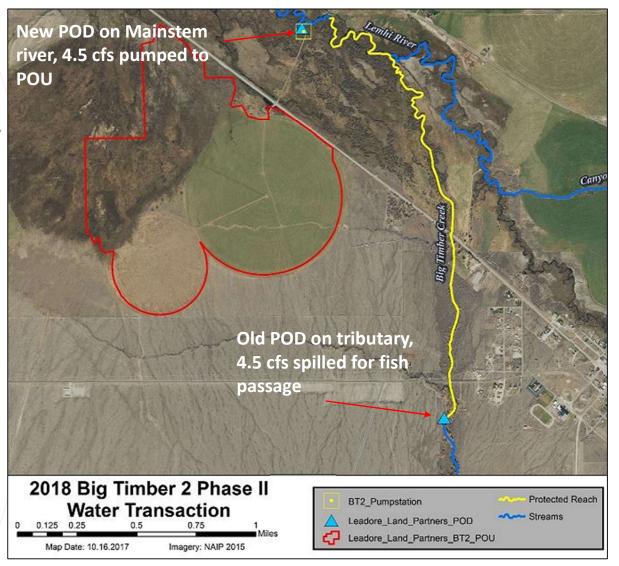
Big Timber Creek, Lemhi River tributary



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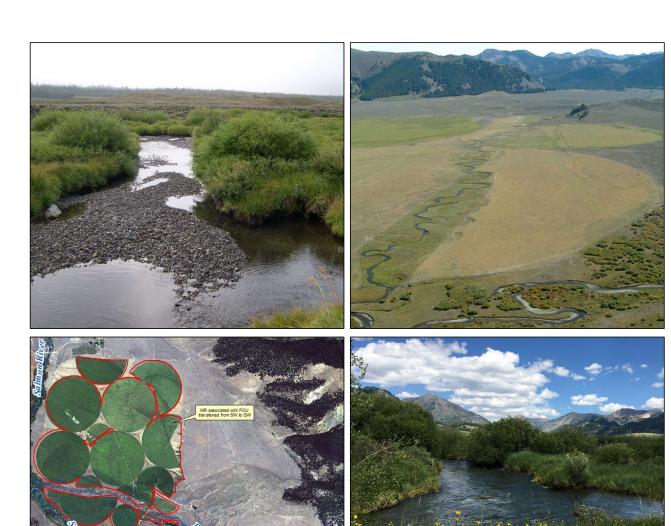


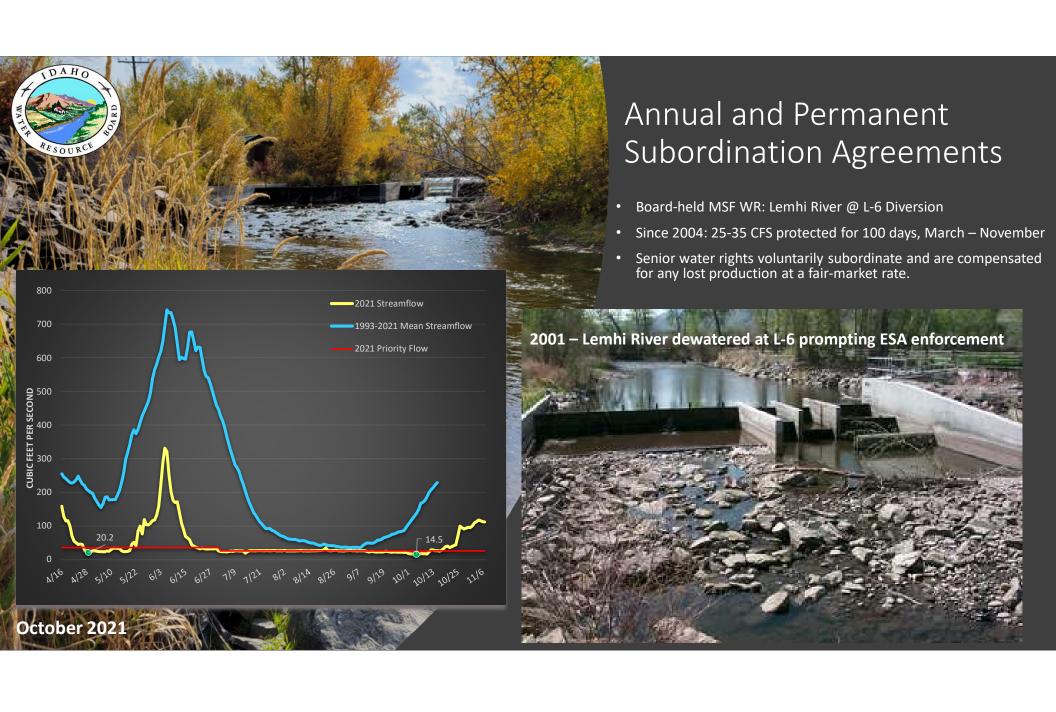
Public Service Announcement

Irrigation Efficiency ≠ Water Transaction

Any instream water savings from irrigation efficiency projects (flood to sprinkler, piping/lining ditches) is not legally protected and can be diverted by downstream users.

Pole Creek, Salmon River headwater tributary







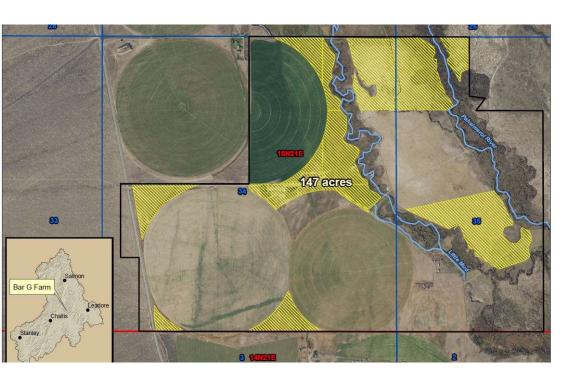
Annual and Permanent Subordination Agreements

Lemhi River @ L-6 Diversion

- Annual Subordination = \$90 per CFS per day for 100 days MAX/yr
- Permanent Subordination = one-time \$100,00 per CFS for up to 100 days MAX/yr
- Administration of Subordination Agreements requires a competent, locally-elected Watermaster and a working relationship with local Water District
- Watermaster also compensated annually for administration of subordination agreements

Water Supply Bank Lease/Rental Agreements Idle irrigated acres to increase flow, primarily to connect tributaries to mainstem habitat

Little Mud Springs Creek,
Pahsimeroi River tributary



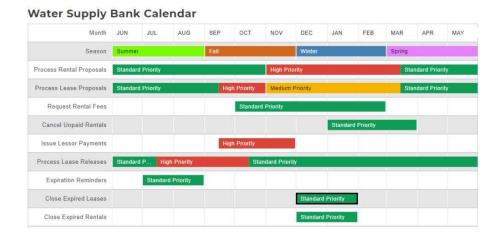


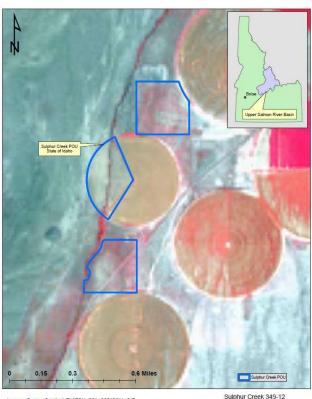




Water Supply Bank - Lease/Rental Agreements

- Submit a water supply bank lease and rental application at the same time
- Provide evidence of beneficial use for last 5 years
- Rental payments: \$20-57/acre of idled ground
- Water Resource Board approval if longer than 5 years; advertised for public comment





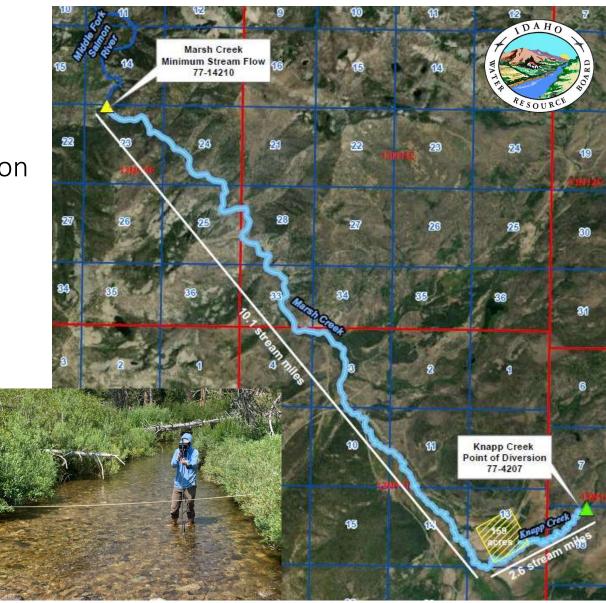
Imagery Source Sentinel: T11TQK_S2A_20210811_CIR

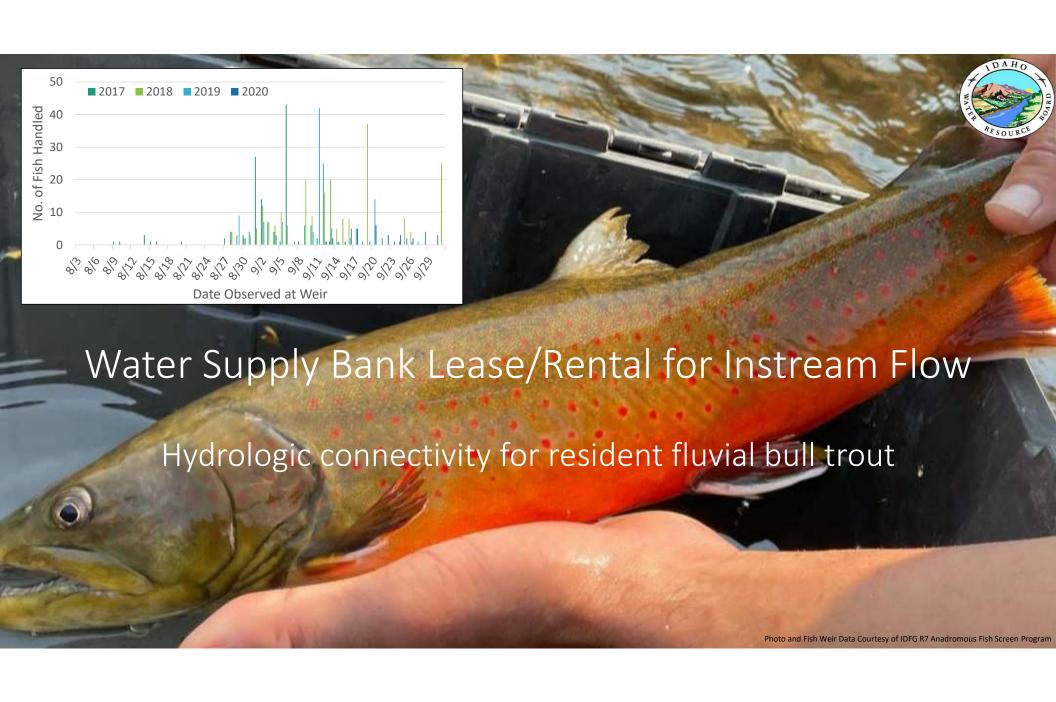
Sulphur Creek 349-12 August 11, 2021

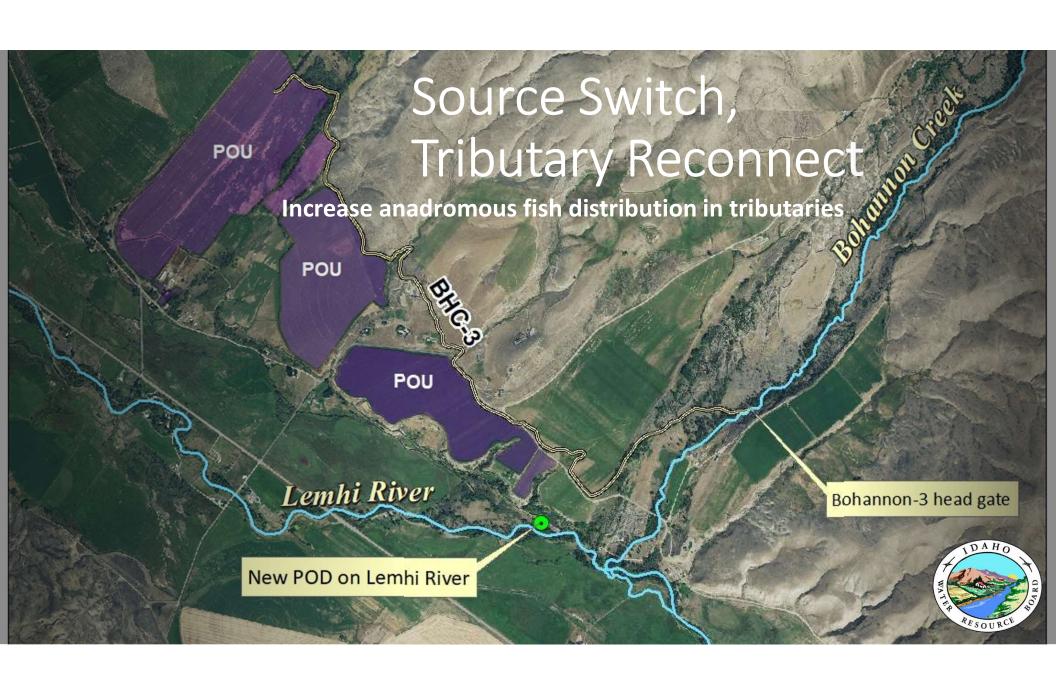
Water Right Acquisition or Donation

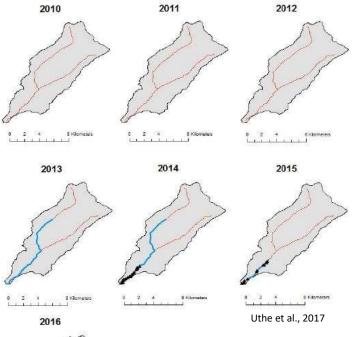
Knapp Creek,
Middle Fork Salmon River

- Acquisition of irrigated acreage
- Water right now owned by IWRB
- Water permanently rented and delivered to meet a Minimum Stream Flow water right.













Source Switch, Tributary Reconnect



Increase anadromous fish distribution in tributaries



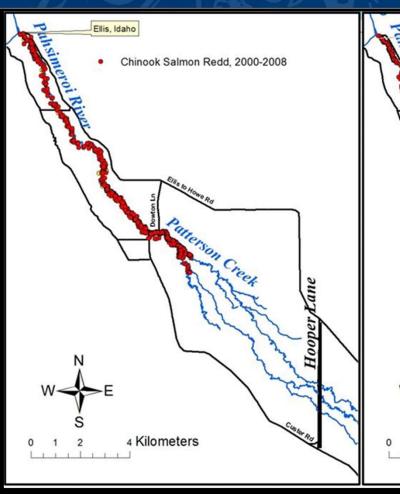


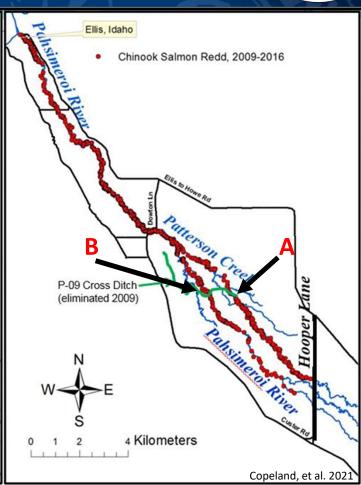


Source Switch, Tributary Reconnect

P-9 Cross-Ditch, Pahsimeroi River

- 20 cfs diverted from Patterson Big Springs Creek
- Dumped sediment and warm water into Pahsimeroi River
- De-watered two spring-fed creeks.

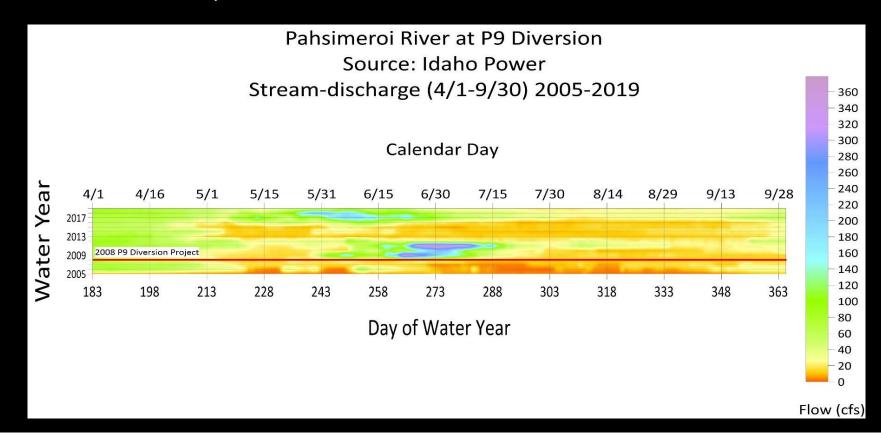








Source Switch, Tributary Reconnect



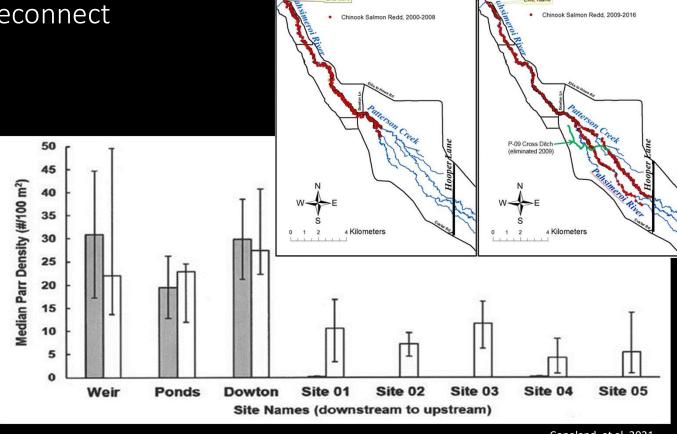




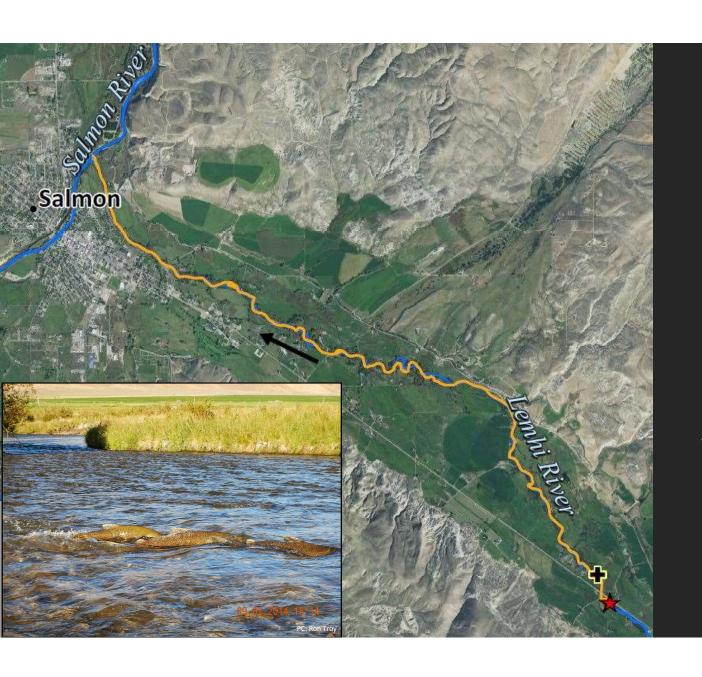
Source Switch, Tributary Reconnect

P-9 Cross-Ditch Removal:

- Opened 40.5 river miles to salmonids
- Rearing habitat increased by 246 %
- 42 % of Chinook redds found above reconnected reach
- Juvenile productivity (smolt-perfemale past Lower Granite Dam) increased significantly
- Juvenile rearing density-dependent limiting factors may be alleviated.



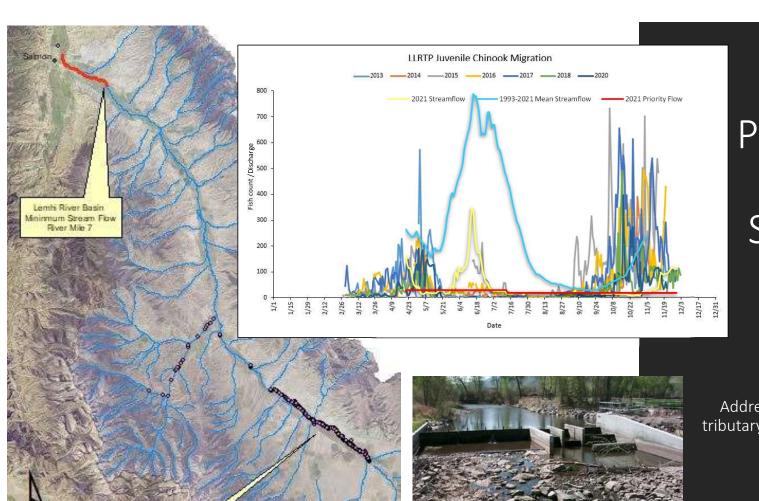
Copeland, et al. 2021



Permanent and Annual Subordination Agreements

Address chronic dewatering issues in major tributary to allow passage of anadromous fish at multiple life stages



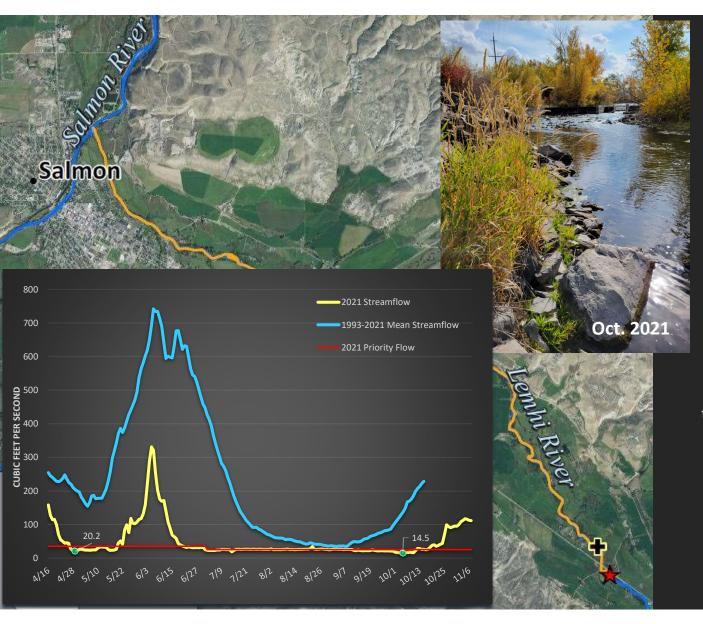


Chinook Spawning

Permanent and Annual Subordination Agreements

Address chronic dewatering issues in major tributary to allow passage of anadromous fish at multiple life stages





Permanent and Annual Subordination Agreements

Address chronic dewatering issues in major tributary to allow passage of anadromous fish at multiple life stages







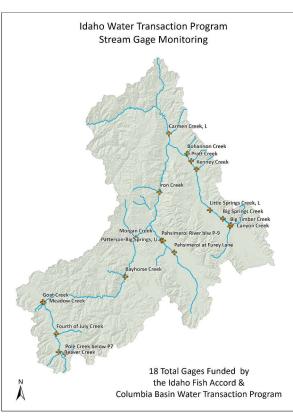
Developing transactions...

- > Ideally, collect streamflow data prior to the water transaction
- > Gather biological data if it exists
- > Take before transaction photos
- ➤ Work from the bottom up on rivers and streams
- > Discuss your plans with regional IDWR office, water district, and watermaster early on
- ➤ Develop a monitoring plan is a continuous stream flow gage necessary?

Water Resource Board









Upper Salmon Basin Watershed Program Technical Team



"Management and conservation of freshwater habitat requires fine spatial resolution, watershed-scale, and lifestage specific methods due to complex linkages among land, climate, water uses, and aquatic organism necessities." Carmichael et al., 2020

