



# LOWER SNAKE RIVER COMPENSATION PLAN



# FISH FOR THE FUTURE

MATT HOW GRAPHIC - USFWS



SHO-PAI TRIBE SALMON OUTPLANT - IDFG PHOTO

WHAT'S BEEN HAPPENING IN LSRCP

**SUMMER/FALL2022**

# Lower Snake River Compensation Plan

FISH FOR THE FUTURE



## COORDINATOR'S CORNER

It was a busy Summer/Fall for myself and the LSRCP staff. We spent a lot of time on budgets (NO FUN) and some time out in the field with all of you (MORE FUN). Our efforts to stretch Fiscal Year 2023 budgets to keep our heads above the rising inflation costs in fish food, labor, transportation, and supplies wasn't pretty, nor was it working.

I looked back in my files and found this picture from 2020 - I was feeling about the same way these past months. The LSRCP program has been "flatlined" for so long, anything starts to help.

And, then, just as we set starting FY23 budgets with significant funding problems, we got news BPA planned to make a significant investment into LSRCP deferred maintenance needs to the tune of \$25M. In addition, BPA heard the pleas from all of you to find opportunities for the FY24 and FY25 budgets to reach closer to inflationary pressure. The details are still being worked out, but this is a big deal. We'll be able to address nagging infrastructure problems and examine where infrastructure can be made more efficient and effective to meet our mission. And, in the short term, we'll pick up some of the slack with resources that were earmarked for maintenance in 2023.

I've jokingly said before that "I'd rather be lucky than good". However, this "luck" was the result of hard work by many of you. It started with identifying and outlining the needs of the program. Those needs were championed internally, but also well beyond the confines of LSRCP because people in the Northwest truly care about the future of salmon and steelhead. The work hasn't ended, rather, now we have an opportunity to showcase how re-investing into LSRCP can make a significant difference in the future.

Fish for the Future!

- Nate

.....  
"Luck is what happens when preparation and opportunity collide"  
.....



MIDDLE FORK OF THE SALMON DURING A FALL BACKCOUNTRY ARMED HIKING TRIP - AKA ELK HUNT WITH NO ELK HARMED

# CHINOOK SYMPOSIUM DEC 13-15

SAWTOOTH FISH HATCHERY

## Meeting Logistics

**What:** Review our past 10-years and Plan LSRCP 2032 - *The Next Decade*

**Where:** Sage-Ponderosa Conference Room at the Natural Resource Center (1387 S Vinnell Way, Boise, ID 83709).

**RSVP:** RSVP to Anna Copeland (anna\_copeland@fws.gov) by November 30th

**Registration:** In-person symposium registration is \$20 Cash at the door. This will cover break refreshments and lunch on Wednesday.

## Virtual Attendance:

Please join my meeting from your computer, tablet or smartphone.

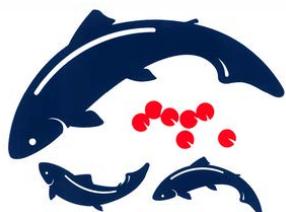
<https://meet.goto.com/LSRCP/lsrcp-isrp-review>

You can also dial in using your phone.

United States: +1 (571) 317-3112

Access Code: 884-340-661

**Social Evening:** Idaho Steelheads Hockey game at the Idaho Central Arena at 7:10 pm on Wednesday (12/14). Please RSVP to Anna (anna\_copeland@fws.gov) if you are interested by November 30th. Cost is \$20 for upper bowl tickets if we assemble a group of 20.



LOWER SNAKE RIVER  
COMPENSATION PLAN  
*Hatchery Program*



# INFRASTRUCTURE AUDITS

CLEARWATER FH SETTLING BASIN

Over the past several months, we've visited McCall, Sawtooth, Hagerman, Dworshak, Clearwater, Lookingglass, East Fork, Irrigon, and Lyons Ferry hatcheries. The purpose of these visits is to examine current Chinook smolt rearing strategies and discuss future opportunities. The resulting reports are still in progress and presentations about each facility will occur at the LSRCP Annual Meeting in April 2023 (tentatively April 25-27).

The draft reports are still being reviewed by hatchery and agency staff. That said, there is usually something to be gained by looking at common problems from a different angle and this effort was no exception. Thanks to everyone spending time "thinking outside the box" about what could be possible. We have some significant opportunities to explore and plenty of challenges that need to be addressed.



ROD ENGLE AND LYTLE DENNY DISCUSSING THE EAST FORK



REMOVING THE POLE FLAT PICKET WEIR AND SCOPING POTENTIAL FOR A RESISTANCE BOARD WEIR - YANKEE FORK SALMON RIVER

# BASIN NEWS

MAGIC VALLEY FH STEELHEAD

## Dam News

There were several pieces written recently of interest. One was a short refutation of blaming fish hatcheries for the decline of salmon from the Northwest Power and Conservation Council:

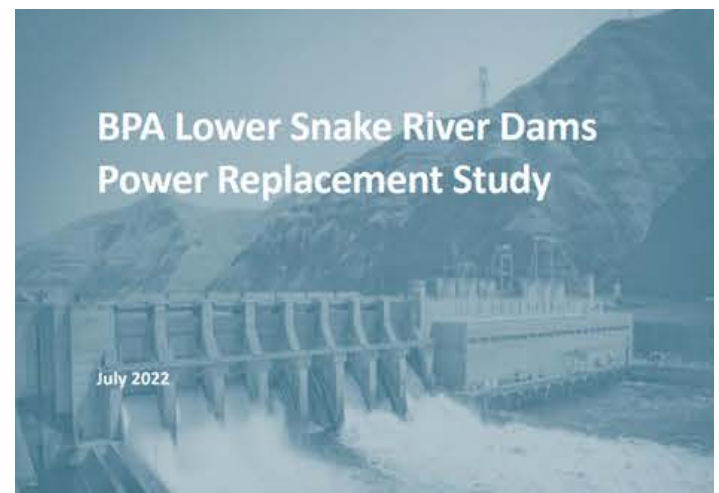
<https://www.nwcouncil.org/news/2022/07/11/council-response-to-recent-oregon-public-broadcasting-and-pro-publica-story-on-hatcheries/>

Another report of interest was the BPA Lower Snake River Dam Power Replacement Study:

<https://www.bpa.gov/-/media/Aep/power/hydropower-data-studies/e3-bpa-lower-snake-river-dams-power-replacement-study.pdf>

The BPA Power Replacement Study concluded that the cost of replacing the Lower Snake River Dams' energy and capacity could range between \$42 and \$77 billion if only renewable energy was used.

Ultimately, the costs of the Dams both monetarily and to salmon and steelhead recovery are great. Hence, our work to continue seeking creative ideas is as paramount as ever.



# 2023 MAINTENANCE



MCCALL SETTLING POND

## 2023 Maintenance Projects

The Asset Management Team, Ace Trump (WDFW), Becky Johnson (NPT), Andrew Gibbs (ODFW), Lytle Denny (SBT), Cassie Sundquist (IDFG), Jon Lovrak (CTUIR), and Lytle Denny (SBT) met with Chris Starr several times to finalize a 2023 Maintenance Plan.

Station	Project	Cost
CLEARWATER	Replacement parts for 6" Magic Valley Fish pump	\$ 20,000
CLEARWATER	New cable and cable spool for intake screen	\$ 100,000
CLEARWATER	water heater for incubation	\$ 8,000
DWORSHAK	VFD for main pump (improve pumping efficiency)	\$ 20,000
HAGERMAN	Flex seal all joints (Spring 2023)	\$ 40,000
HAGERMAN	Remove old bldg foundation, may have contaminants	\$ 40,000
HAGERMAN	New electrical control panels for WMA water pumps (blue pumps)	\$ 12,000
HAGERMAN	Keyways, center post at 50ft in raceways	\$ 40,000
IRRIGON	Plumb line from new drink well to hatchery bldg	\$ 12,000
LOOKINGGLASS	repair as needed- entrance road guardrails	\$ 5,000
LOOKINGGLASS	Chiller control panel replacement	\$ 2,000
LOOKINGGLASS	Diesel tank upgrade, improve fuel lines (generator for houses)	\$ 15,000
LSRCP PROGRAM	Mandatory potable water testing (PFAS)	\$ 10,000
LYONS FERRY	Ventilation motors and loovers for all well pump vaults	\$ 100,000
LYONS FERRY	Replace wheel stops	\$ 5,000
MAGIC VALLEY	Traveling bridge - parts & repair (staff)	\$ 20,000
MAGIC VALLEY	Concrete raceway wall - repair spalling, etc (Spring 2023)	\$ 50,000
MAGIC VALLEY	Cut down leaning and fallen trees around settling ponds	\$ 15,000
MAGIC VALLEY	Improve / repair irrigation system (Spring 2023)	\$ 25,000
MCCALL	Repair stairs into hatchery bldg (safety?)	\$ 15,000
MCCALL	Improved hatchery alarm system	\$ 75,000
MCCALL	Additional costs - adult holding pond (Contract Mod)	\$ 50,000
MCCALL	Dredge settling pond	\$ 100,000
RED RIVER	Electrical repair in the garage (safety)	\$ 12,000
SAWTOOTH	Rebuild (2) inside concrete rearing vats	\$ 60,000
SAWTOOTH	New flow meter	\$ 9,000
TUCANNON	Replace drive planks on entrance bridge	\$ 10,000
LSRCP PROGRAM	Select Personal Property - TBD	\$ 130,000
<b>REGULAR MAINTENANCE BUDGET - FY2023 - SUBTOTAL</b>		<b>\$ 1,000,000</b>



DWORSHAK RACEWAYS AND SHADE CLOTH

# BPA SUPPLEMENTAL FUNDING

## \$25 Million BPA Supplemental Deferred Maintenance Funding

The Asset Management Team and Chris Starr built a starting point of the highest priority projects to address with BPA supplemental funding when it becomes available in late 2022 or early 2023. Some funding remains unassigned as secondary review removed the Dworshak Shade structure replacement due to cost/benefit concerns.

STATION	PROJECT	COST
LOOKINGGLASS	New chiller system	\$ 350,000
IRRIGON	Replace "River" valve and "Reuse" valve at each raceway	\$ 350,000
LYONS FERRY	Replace / repair adult chute, sorting, controls - DESIGN / BUILD	\$ 450,000
LYONS FERRY	Replace check and gate valves at Marmes	\$ 950,000
SAWTOOTH	Construct comprehensive well plan upgrades (All)	\$ 490,000
WALLOWA	Repairs Etc - WAL - Weir Bridge & Bridge #2, BC - Entrance Brid	\$ 400,000
MCCALL	Shade cover over new adult holding ponds - DESIGN / BUILD	\$ 750,000
LOOKINGGLASS	replace intake screens / fish ladder - Compliance - DESIGN/BUILD	\$ 7,500,000
DAYTON POND	Repair / upgrade Dayton Dam, intake upgrades - Construction	\$ 2,000,000
TUCANNON	Residences (2) roofing, siding, chimney repair	\$ 220,000
LSRCP	Replace select egg incubation trays throughout the program - TBD	\$ 150,000
CLEARWATER	Replace fence around original adult holding ponds	\$ 45,000
CLEARWATER	Replace hatchery maint water line (service water)	\$ 150,000
LITTLE SHEEP	COMPLIANCE - intake improvements, intake fish ladder	\$ 75,000
SAWTOOTH	Repair/replace fencing around adult ponds, trap, etc	\$ 120,000
MAGIC VALLEY	PRELIM ENG REPORT/ALTERNATIVES - Raceway Replacement	\$ 225,000
SAW / LOOK	Dormer for (9) residence back doors - DESIGN / BUILD	\$ 360,000
LSRCP	Select facility pipeline inspections - TBD, more info (place holder)	\$ 490,000
DWORSHAK	cross connect - DESIGN / BUILD	\$ 200,000
WALLOWA	Repair fish ladder and outflow structure - DESIGN / BUILD	\$ 975,000
SAWTOOTH	Generator replacement	\$ 400,000
LOOKINGGLASS	Repair and epoxy coat concrete raceways	\$ 750,000
MCCALL	Repair and epoxy coat outdoor rearing ponds	\$ 480,000
YANKEE FORK	Acclimation facilities (need more info, ISRP?, etc)(place holder)	\$ 490,000
CLEARWATER	New roof - office / dorm bldg	\$ 170,000
MCCALL	Remodel dorm / office bldg, including bathrooms; office efficiency	\$ 220,000
LSRCP	Epoxy paint inside vats - Magic, McCall, Clearwater, Sawtooth, Hag	\$ 800,000
DWORSHAK	upsized production pumps (1) (250 hp)	\$ 300,000
SAWTOOTH	Dredge work above the weir, include permitting	\$ 100,000
LSRCP	Bird Netting - Hagerman, Irrigon, Magic, other	\$ 250,000
LOOKINGGLASS	Replace roofs on (3) original houses (40 yrs old)	\$ 150,000
IRRIGON	Replace siding on all residences	\$ 240,000
SAWTOOTH	Replace windows in residences, many with bad seals	\$ 300,000
VARIOUS	2023 List	\$ 1,000,000
VARIOUS	Still to be Prioritized	\$ 3,100,000
<b>SUBTOTAL</b>		<b>\$ 25,000,000</b>

# ASPHALT SCOPING

HAGERMAN ENTRANCE ROAD - NATHAN PAULSON AND SAGE PIKE

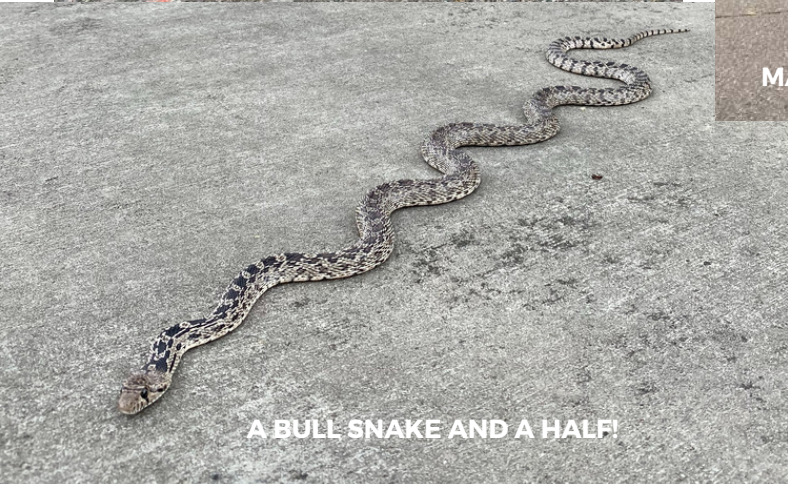
## Hagerman and Magic Valley Asphalt Scoping Projects

Nathan Paulson, USFWS Engineering, met with staff at Hagerman and Magic Valley Hatcheries over the summer to discuss asphalt replacement scoping. Nathan served as the liaison between the staff and McMillian Engineering for design of the project.

Asphalt is certainly not an immediate priority project, but after 40 years, our roads are showing their age. Full replacement of Magic Valley Hatchery asphalt and entrance road was estimated at \$2.9M and Hagerman was estimated at \$3.3M. That's a lot of asphalt work!



MAGIC VALLEY ENTRANCE ROAD



A BULL SNAKE AND A HALF!





REDD SURVEY TRAINING AT LOSTINE

# LOSTINE SURVEY TRAINING

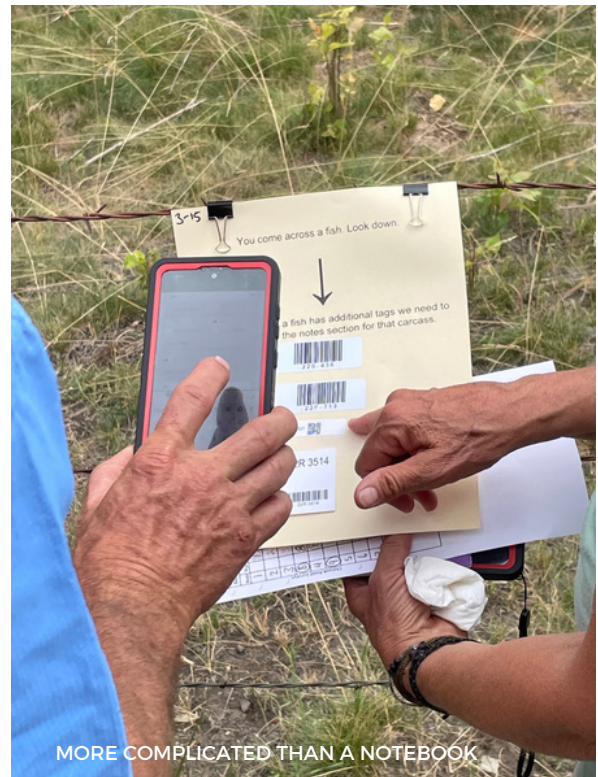
## Spawning Ground Survey Training

Some of the LSRCP staff participated in the Northeast Oregon Spawning Ground Survey training and surveys with staff from ODFW, NPT, CTUIR, and beyond. The surveys provide a long-term dataset of salmon stream use in Northeast Oregon.

Training including redd ID, survey methods, fish work up, data collection, and using Survey 123 and Field Maps. The Survey123 platform has eliminated a lot of the paper data sheet recording and the duplicative effort to enter those datasheets into databases.



LOSTINE ACCLIMATION PONDS



MORE COMPLICATED THAN A NOTEBOOK



HAGERMAN HOUSES IN CONSTRUCTION

# HAGERMAN QUARTERS

## Hagerman NFH Houses

Work continued on the final two (of four) Hagerman Quarters. The Hagerman Quarters were originally constructed in 1950 and were retrofitted with aluminum wiring in the 1970s.

Unfortunately, that wiring caught fire in the mid 2010s and despite being replaced, a significant electrical risk remained.

The first two Hagerman houses were completed in May 2022 and demolition started on the second two.

Houses are slated to be ready for move-in by December 2022.



# HAGERMAN STURGEON



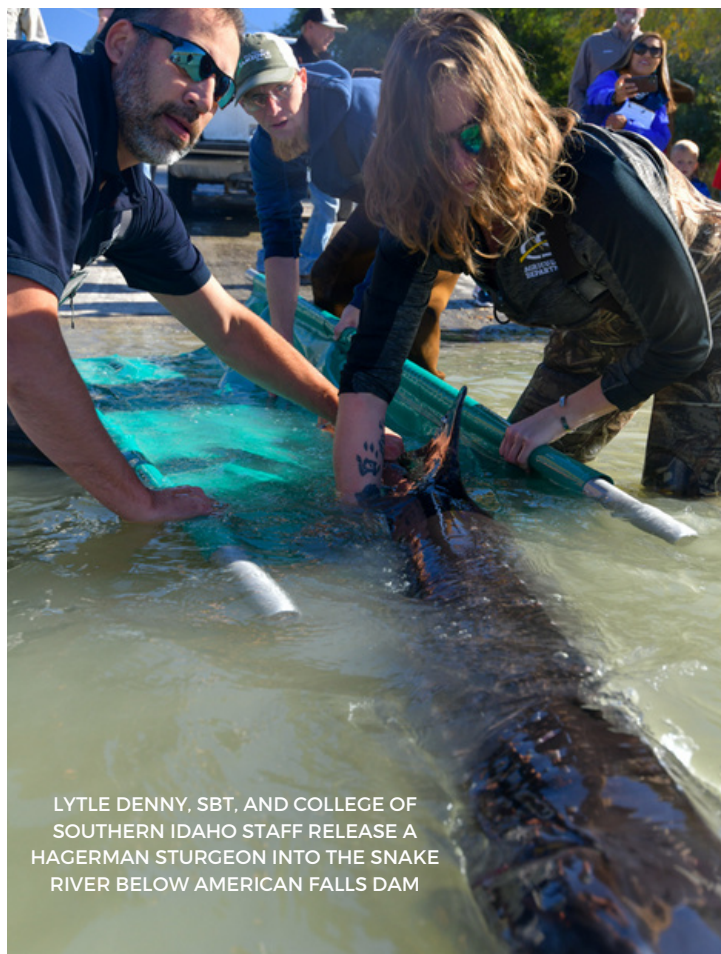
LOADING A 7-FOOTER

## Hagerman NFH Outreach Sturgeon

The Hagerman NFH sturgeon that had lived in the outreach raceway for almost 40 years got a new home this Fall. With help from staff of College of Southern Idaho (CSI), the sturgeon were ploidy tested for consideration for release below American Falls Dam on the Snake River. Five of the sturgeon had the normal 8 sets of chromosomes, but one did not. Idaho Fish and Game, Shoshone-Bannock Tribe, LSRCP, and CSI staff assisted with the release.

Fortunately, the 7-footer with 12 chromosomes found a new home at the MK Nature Center in Boise:

<https://idfg.idaho.gov/press/fish-and-games-mk-nature-center-welcomes-its-newest-addition-7-foot-sturgeon>



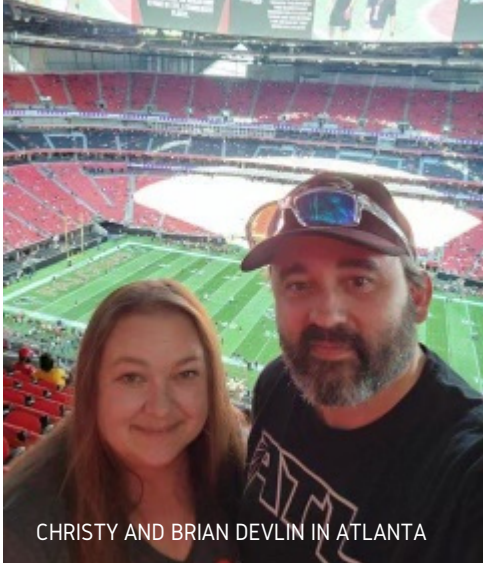
LYTLE DENNY, SBT, AND COLLEGE OF SOUTHERN IDAHO STAFF RELEASE A HAGERMAN STURGEON INTO THE SNAKE RIVER BELOW AMERICAN FALLS DAM



STURGEON RELEASE BELOW AMERICAN FALLS



PAPOOSE SPRINGS STURGEON, SBT



CHRISTY AND BRIAN DEVLIN IN ATLANTA

# BRIAN DEVLIN LSRCP

## Brian Devlin, LSRCP Budget Analyst

Brian is headed out to his next adventure after 3 years with the LSRCP team to the Joint Administrative Operations of the US Fish and Wildlife Service. We're excited to see Brian earn a well-deserved promotion, but sad to see him go from the LSRCP.

Brian was in the Marines before he joined the USFWS. He started at Dworshak NFH as a GS-6 Administrative Assistant and quickly moved up to the lead Administrative Officer at Dworshak before transferring to the LSRCP to as the Budget Analyst behind Margaret Anderson's retirement.

Brian has an endless "can-do" attitude and routinely found opportunities to further the *Fish for the Future* mission. At the same time, he was always willing to lend a hand whether it was spawning fish, helping in Grants Solutions, building travel authorizations, buying vehicles, or completing property inventories.

When he's not building budget spreadsheets, Brian is hanging with his wife, Christy, and two dogs, babysitting his daughter's dogs, and visiting his son who is studying fisheries at Montana State University.

The LSRCP staff pitched in to get Brian tickets to the San Francisco/Atlanta football game in Atlanta on October 16th, 2022. Being a Georgia native, Brian is a lifelong Falcons fan! Good luck Brian! We'll miss you!

