

Lower Snake River Compensation Plan FY2014 Performance Report
Idaho Department of Fish and Game - Sawtooth Fish Hatchery (SFH)
Species: A-Run and B-Run Summer Steelhead, Spring Chinook, Sockeye Salmon

Objective 1: Manage all operations and maintenance at the Sawtooth Fish Hatchery, the East Fork and the Squaw Creek Satellite Facilities, to achieve LSRCP goals. This also includes overseeing spending, all fish marking, fish transportation and fish health activities associated with this program.

Report:

- A. Provided administrative oversight, developed and managed budgets, and met reporting requirements. This included overseeing spending, fish marking, fish transportation and fish health activities associated with this program.
- B. Adult Trapping and Broodstock Development
 1. The LSRCP goals for the Sawtooth Fish Hatchery are to return 13,600 adult steelhead and 19,445 adult (spring/summer) Chinook salmon above Lower Granite Dam annually. In addition to managing the Sawtooth Hatchery the staff also oversees operations at one satellite facility, East Fork Salmon River to achieve the LSRCP goals. Squaw Creek Trap was not operated in 2014.
 - a. Pertinent physical and biological data associated with all aspects of program operations were collected. Program operations are detailed in the Salmon River Basin Annual Operating Plan (AOP).
 2. Steelhead
 - a. The broodstock goal for A-run steelhead is 714 adults at Sawtooth and 14 natural pairs at the East Fork.
 - i. A total of 2,338 adult A-run steelhead were trapped at the Sawtooth weir in 2014. (2,292 HO and 46 NO).
 - ii. A total of 371 adult steelhead were trapped at the East Fork weir. (341 HO 25 NO and five strays).
 3. Chinook Salmon
 - a. The broodstock goal for spring Chinook is 900 adults.
 - i. A total of 2,876 Chinook were trapped in 2014. (1,763 HO, 636 IO and 477 NO).
 4. Sockeye Salmon
 - a. Sawtooth personnel removed and assessed eight sockeye salmon from the trap in 2014. These fish were immediately transferred to Eagle Fish Hatchery or released into Redfish Lake for volitional spawning.
- C. Spawning
 1. Pertinent physical and biological data associated with all aspects of program operations were collected. Program operations are detailed in the Salmon River Basin Annual Operating Plan (AOP).
 2. Steelhead
 - a. The egg collection target for the Sawtooth A-run steelhead is up to 1,857,000 with a broodstock goal of 714 adults.
 - i. In 2014 a total of 366 A-run steelhead females were spawned at Sawtooth producing 1,823,244 green eggs.

- b. The East Fork Natural stock egg collection target was 77,000 green eggs with a broodstock target of 14 NO females and 14 NO males.
 - i. In 2014 a total of 7 HO and 6 NO females were spawned at the East Fork producing 67,253 green eggs.
- c. Sawtooth also incubated to eye up 1,070,273 eyed eggs from Pahsimeroi.

3. Chinook Salmon

- a. The smolt release target is 1,800,000 spring Chinook with a green egg collection target of 2,200,000 and a broodstock target of 900 adults.
 - i. A total of 461 spring Chinook females were spawned in 2014 for the Sawtooth program producing 2,039,501 green eggs.

D. Incubation and Rearing

1. Steelhead

- a. Incubate to eye up A and B-run steelhead eggs and ship to their designated hatchery (Hagerman National Fish Hatchery and Magic Valley Fish Hatchery).
 - i. In 2014 1,714,912 Sawtooth stock eyed eggs were produced for a percent survival of 94.1%. Sawtooth shipped 1,617,580 Sawtooth stock eyed eggs to Hagerman National Fish Hatchery.
 - ii. In 2014, the Pahsimeroi A-run stock eggs yielded 615,083 eye eggs for a 92.9% eye-up. Sawtooth shipped 585,064 Pahsimeroi stock eyed eggs to Magic Valley Fish Hatchery. The Pahsimeroi B-run stock eggs yielded 485,209 eyed eggs for a 88.8% eye-up. Sawtooth shipped 485,209 Pahsimeroi B-run eyed eggs to Magic Valley Fish Hatchery.
 - iii. In 2014, Sawtooth shipped 67,253 East Fork stock eyed eggs to Hagerman National Fish Hatchery.
- b. Collected and recorded appropriate physical and biological data during incubation and transfers.

2. Chinook Salmon

- a. Incubated and reared spring Chinook eggs and fish at appropriate lot levels.
- b. Collected and recorded appropriate physical and biological data during incubation and rearing.
 - i. Brood Year 2012 spring Chinook survival from eyed egg to stocking was 94.5%. A total of 109,846 pounds of feed was fed for a weight gain of 109,086 resulting in a feed conversion of 1.00. The final entire hatchery average rearing densities were under 0.3 D.I.
 - ii. Brood Year 2013 spring Chinook number on hand is 1,735,241 presmolts at 24 fpp. This group of fish will overwinter in twelve large outside raceways. Smolts will be released in the spring of 2015 at the Sawtooth Weir and the Yankee Fork.
 - iii. Brood Year 2014 spring Chinook. A total of 461 females were crossed with 472 males creating 2,039,501 green eggs.

- c. Addressed objectives for Shoshone-Bannock Tribe programs and worked cooperatively.

3. Sockeye Salmon

- a. Incubated from eyed egg and reared Sockeye Salmon eggs and fish at appropriate lot levels.
- b. Collected and recorded appropriate physical and biological data during incubation and rearing.
 - i. Brood Year 2012 sockeye salmon were released into Redfish Lake Creek on May 8-9, 2014. A total of 170,090 sockeye smolts averaging 20 fish per pound were released.
 - ii. Brood Year 2013 sockeye salmon eggs were shipped to Sawtooth in November and December of 2013. A total of 203,201 eyed eggs were shipped. The current on hand number is 135,465 presmolts. They will overwinter in two large outside raceways and will be released in May 2015. This is the final Brood Year of Sockeye to be reared at Sawtooth Fish Hatchery.

4. Marking and Tagging

- a. Marking and tagging tasks will be addressed collectively in a stand-alone Statement of Work.

5. Fish Health

- a. Fish Health tasks will be addressed collectively in a stand-alone Statement of Work

E. Juvenile Fish Releases

1. Chinook

- a. Annual release plans.
 - i. Distribution of Brood Year 2012 spring Chinook smolts occurred on April 4, 2014. A total of 1,547,329 (1,367,121 segregated, 180,208 integrated) were direct released at the Sawtooth weir. On April 24-25, 2014, 192,577 Sawtooth stock Chinook smolt were transported by Neil Ring Trucking and released into the Yankee Fork River.
- b. Fish loading and hauling information.
 - i. All fish hauling services were contracted through Neil Ring Trucking. No unusual mortality events were observed during fish hauling.

2. Sockeye

- a. Annual release plans
 - i. Distribution of Brood Year 2012 sockeye occurred on May 8-9, 2014. A total of 170,090 sockeye smolts averaging 20 fish per pound were released into Redfish Lake Creek.

Objective 2: Develop the facility annual operating budget, to be submitted to the LSRCP office by June 15. The FY2014 proposed operating budget was \$713,075 (excluding fish feed and utilities paid directly by LSRCP office). A separate maintenance and equipment needs list will be submitted with the annual operating budget. Major maintenance and improvement projects will be coordinated with the LSRCP office.

Report:

- A. The Annual Operating Budget was submitted to IDFG Headquarters office prior to June 15.
- B. A capital improvement project list was submitted along with the budget.
- C. All major maintenance and improvement projects were coordinated with the LSRCP office.
 1. Facility and Equipment Maintenance, Repair, Replacement. During the year the following projects were completed:
 - a. New Welcome signs were installed at the Visitor parking areas, a new water source sign was installed by the office and two new signs were installed at the spawn building.
 - b. Trench was dug for well #5 river valve, installed a power supply and a heater to keep the valve thawed out during the winter months in case of well #5 failure.
 - c. A drain was cut into the concrete at the spawn shed to aid in after spawn clean up.
 - d. A new structure was installed on the weir apron to raise the water level in the first step of the fish ladder.
 - e. The spawn shed live wells were painted white to allow easier visibility of the fish.
 - f. About 70 belt feeders were serviced and repaired as needed.
 - g. Hatchery entrance sign poles were replaced with metal posts.
 - h. Larger drain holes were drilled into raceways screens to allow the screen frames to be effectively pressure washed.
 - i. The adult net frames received new bags.
 - j. Eye wash station location stripes were painted on the walls.
 - k. An emergency wash-down shower was installed in the headbox room.
 - l. Residence 3 received multiple repairs.
 - m. All the vat baffles were repaired and sequentially marked.
 - n. Extra aluminum dam boards were modified to fit the raceways.
 - o. Four of the residences received new wood stoves and piping.
 - p. Attic ladders were installed in all of the residences.
 - q. Additional garage lights were installed in the residences.
 - r. The residences and office areas carpets were steam-cleaned.
 - s. The hatchery effluent screen was replaced with a much stouter screen.
 - t. A heated incubation water system was installed.
 - u. The residence 4 garage was sheet-rocked and painted.
 - v. Outlets in the intake building were installed to power aerators located in each bay to reduce slush build-up.
 - w. An aluminum spawn table for the East Fork facility was fabricated.

- x. Electrical, water, and sewage lines and foundation preparations were completed for the new East Fork dormitory.
- y. The East Fork dormitory was set onto its foundation and hooked up to utilities.
- z. A new process water pump was installed at the East Fork facility.
- aa. A new Kid's Creek Pond information sign was made and installed.
- bb. An ADA compliant fishing dock was built at the Kid's Creek Pond.
- cc. The marking trailer electrical supply was fenced.
- dd. Bare cement hatchery-building walls were painted.
- ee. The trap bypass-valve was repaired.
- ff. Contractors installed new furnaces and infrared heaters in the hatchery building.
- gg. Contractors installed new lighting fixtures in the hatchery building.
- hh. Bleeding troughs were fabricated to assist spawning.
- ii. A valve for large raceway 4 was replaced.
- jj. The hatchery's dormitory received a new fire hydrant.
- kk. The janitorial room was repaired, repainted, and reorganized.

Objective 3: Develop an annual facility Statement of Work, to be submitted to LSRCP office by June 15.

Report: The Sawtooth Fish Hatchery submitted their Annual Statement of Work prior to June 15, 2014.

Objective 4: Conduct annual safety inspections and submit findings to the LSRCP office by August 1.

Report:

- A. Sawtooth Fish Hatchery received a State Safety Inspection on July 8, report was received on July 18 and a response was sent to LSRCP and Division of Building and Safety prior to August 1. All deficiencies noted have been repaired.
- B. On September 9, 2014 FWS Safety Inspector did an Occupancy Inspection on the new East Fork Dormitory and submitted findings to the contractor, Pacific Mobile, and LSRCP. The final items on the checklist will be completed in March of 2015 by Pacific Mobile.

Objective 5: Conduct annual facility condition assessments and submit findings to the LSRCP by August 1.

Report: A condition assessment was completed by LSRCP, Chris Starr, on April 15 and 16, 2014.

Objective 6: Conduct annual real property and personal property inventories; coordinate with LSRCP personnel.

Report:

- A. Verified personal property inventory with Renee Heeren on August 14, 2014.
- B. IDFG Annual Inventory submitted to the Bureau on January 22, 2014.
- C. Random Physical Inventory with IDFG Bureau on September 11, 2014.

Objective 7: Contribute to the development of the Salmon River AOP.

Report: Fish Hatchery Manager attended the Salmon River AOP meeting in Boise on February 4, 2014. All SFH data was entered into the Salmon River AOP document on Google Docs in a timely manner.

Objective 8: Provide monthly fish inventory data to the LSRCP office by the 7th of each month.

Report: All monthly LSRCP reports were submitted to the LSRCP office by the 7th of each month during the fiscal year.

Objective 9: Provide a written facility annual report to the LSRCP office, including the standardized LSRCP production tables to the LSRCP office by December 31. A progress summary of all ongoing hatchery research projects will be included in this report.

Report:

- A. This annual report was submitted prior to December 31.
- B. LSRCP Standardized Production Tables

Spring / Summer Chinook Salmon (Upper Salmon River Stock):

Adult Return Goal:	19,445
Smolt Release Target:	1,800,000
Egg Collection Target:	2,200,000
Broodstock Target:	450 pair

Steelhead (Sawtooth A-run Stock; Hagerman NFH reared):

Smolt Release Target:	1,400,000
Egg Collection Target:	1,857,000
Broodstock Target:	357 pair

Steelhead (East Fork Natural Stock; Hagerman NFH reared):

Smolt Release Target:	60,000
Egg Collection Target:	77,000
Broodstock Target:	14 pair