



United States Department of the Interior

FISH AND WILDLIFE SERVICE

Dworshak Fisheries Complex

P.O. Box 18

Ahsahka, ID

Phone: (208) 476-4591 FAX: (208) 476-3252



MEMORANDUM

To: Fisheries Supervisor, Columbia Basin Ecoregion
Region 1, Portland, OR

From: Complex Manager
Dworshak Fisheries Complex

Subject: **Monthly Activity Report – Jan. 2010**

Fish Management Culture

Dworshak

SPRING CHINOOK SALMON (SCS)

Brood Year (BY) 2008

At the end of the month there were approximately 1,119,106 BY08 SCS on station. These fish averaged 21 fish per pound (fpp) and 137 mm (5.4 inches) total length. Mortality for the month averaged 0.2 percent and raceway (RW) water temperature averaged 42.3°F.

BroodYear 2009

At the end of the month there were approximately 584,200 sac-fry in incubators at Dworshak National Fish Hatchery. These fry are being incubated on 37°F water and are projected to go on feed in April.

COHO SALMON (COS)

Brood Year 2008

At the end of the month there were 348,371 COS averaging 16 fpp and 144 mm (5.7 inches) total length on station. Coho are in Burrows ponds (BP's) 51-53-55-57-59. Coho in BP 59 were diagnosed with Cold-water disease and on January 20 a ten-day Florfenicol medicated feed treatment was started and appeared to help lower the mortalities. Mortality for the month was 0.6 percent for all the coho and water temperature averaged 42.3°F for the month.

SUMMER STEELHEAD (SST)

Brood Year 2009

By the end of January there were 1,250,051 SST on station averaging 9.3 fpp and 171 mm (6.4 inches) total length. High mortality from *Infectious Hematopoietic Necrosis Virus* (IHNV), gas bubble, and cold-water disease occurred over the summer of 2009 pushing the steelhead mortality near the 1.3 million mark.

System I had 368,653 BY09 SST averaging 8.5 fpp and 177 mm (7.0 inches) total length by the end of the month. Mortality was 0.2 percent and water temperature averaged 42.3°F for the month.

System II had 664,363 BY09 SST averaging 10 fpp and 165 mm (6.5 inches) total length by the end of the month. Mortality was 0.5 percent and water temperature averaged 42.3°F for the month.

System III had 217,035 BY09 SST averaging 8 fpp and 178 mm (7.0 inches) total length by the end of the month. Mortality was 1.4 percent for the month. Water temperature averaged 42.3°F for the month.

Brood Year 2010

The first two SST egg takes occurred on January 5th and 12th. These fish represented the “early” returning SST with the adults being collected in October, 2009. Typically, the spawning of these early returning SST has occurred in late January and early February, but in the fall of 2008 and 2009, ambient river temperatures have run approximately 4°F higher and egg maturation appears to have coincided yielding an abundance of ripe fish. Additional adult collections and spawning will resume in February.

RAINBOW TROUT (RBT)

Brood Year 2009

At the end of the month there were 13,276 BY09 RBT in BP61 averaging 2.2 fpp and 265 mm (10.4 inches) total length. Mortality was 1.3 percent and water temperature in the tanks averaged 42.3°F during the month.

These fish will be utilized for the Kids Fishing Day in 2010.

SUMMARY

Table 1. Total Production—Fish on Station (01/31/10).

SP	BY	Location	Number	Wt (lbs)	FPP	L in	L mm
SCS	08	A-Bank RWs	1,119,106	52,570	21	5.4	137
COS	08	BPs	348,371	22,009	15.8	5.7	144
SST	09	System I	368,653	43,444	8.5	7.0	177
SST	09	System II	664,363	64,200	10.3	6.5	165
SST	09	System III	217,035	26,317	8.2	7.0	178
RBT	09	BP 61	13,276	6,021	2.2	10.4	265
Total			2,730,804	214,561			

Kooskia

Kooskia Trap Operations BY09

The trap remained closed through the month.

Kooskia Brood Year 2009

All Kooskia Stock By 2009 alevin are currently being incubated at Kooskia NFH on chilled well water. Kooskia stock BY 2009 alevin currently number 717,681.

Dworshak Brood Year 2009

Dworshak Stock BY 2009 alevin are currently being incubated at Kooskia NFH on chilled well water. Dworshak stock BY 2009 alevin currently number 566,563.

Coho Brood Year 2009

On 1/19/10 Egg Take #1 was shocked and picked. During the enumeration process, the eggs of 30 females (15 trays with 2 females/tray) were culled due to severe infestation of fungus, *Saprolegnia sps.* The fungus infestation had developed due not treating with Formalin beginning five days after incubation commenced and at close intervals thereafter. Future Coho egg takes incubated at Kooskia NFH will be treated with Formalin or another approved anti-fungus chemical routinely to control fungus disease.

On 1/20/10 Egg Take #2 was shocked and picked; the eggs of four females were culled due to fungus disease (2 trays 2 females per tray).

On 1/20/10 Egg Take #3 was shocked and picked; and again, the eggs of eight females were culled (8 trays, 1 female/tray) due to severe fungus growth.

Starting on 1/21/10 all takes were put through a salt solution to separate the live eggs from the dead eggs. This was done because of the high number of dead eggs and the growth of fungus. Eggs were sorted and counted using a Van Gaalen sorter following the salt separation. A total of 376,709 live eyed eggs were obtained.

The total number of eggs beginning incubation can only be estimated due to severe fungus making accurate counts of dead eggs with the Van Gaalen machine impossible.

On 12/1/2009 when spawning was complete and incubation began, our estimate of total eggs at Kooskia NFH was 582,000. The survival estimate for eye-up is 64.67 percent.

Kooskia Brood Year 2008

Kooskia Stock BY 2008 SCS number 633,418 averaging 33.1 fpp at 4.65 inches long. Minimal growth for the month was due to cold water. Kooskia stock SCS remain in the Burrows Ponds on single pass creek water. Creek water temperature averaged 32.3 F this month.

A Fish health exam was conducted January 28th. The fish appear to be in good overall health. No formalin or drug treatments were recommended this month.

Maintenance

Dworshak

- Electrical: Conducting light and alarm test with Nursery room contractor which involved reconnecting all outdoor lighting circuits; reconnected ladder camera and associated wiring for video display; troubleshot and repaired unit heater for formalin storage; walk through and pre-final inspection of Nursery room contract; repaired wall heater in rest room; prepped and connected transmitter and receiver for Turtle H2O alert system; troubleshot and repaired FRO sewage grinder pump; set up power monitors for demand readings for COE; repaired power cord for pressure washer; installed new pressure switch on air compressor #2 in Mech I and tested control circuits on Mech II boilers, #3& 4.
- Cleaned system I clarifiers and transferred sludge to digesters.
- Installed Nursery room cleaning pump on C-bank in Nursery.
- Installed six pack columns in Nursery room for testing.
- Fabrication projects: six net frames for poles; fabricate three pond wall net brackets; blind flange for Nursery bio tanks; modified pedestal stands for marking trailer; welded bracket for ladder in Nursery; welded clamp to adapt de-watering tower to FRO marking trailer.
- Mounted oxygen regulator on Fish truck;
- Removed #2 compressor from Mech 1.
- Hauled lockers from Dworshak dam to hatchery.
- Started heated water to Nursery and Incubator room in preparation for spawning.
- Daily: checked pumps, traveling water screens, cleaned moss trap at Main pump house; checked fire and maintenance Pump House; grounds and building maintenance.

Kooskia

Construction on the new quarters continues with roofing, sheetrock and interior painting being completed.

Dec 2: New septic tank installed at quarters #2.

Dec 3: Pre Bid meeting for egg incubation recirculation system project. Adam Izbicki held the meeting.

ARRA/ Projects:

Screen Chamber project: This project is currently in the design phase with construction to begin April 2010. Contract has been awarded to Lan-Pacific out of Portland OR. This project includes modifications to the screen chamber to comply with NPDES requirements, replacing a failed slide gate at the intake, and installation of a floodwall below the intake. Project cost is \$629,300.00

Egg recirculation system and well rehab:

Design work has been completed on this project. Design work was performed by McMillen Engineering out of Boise, ID. Design cost was \$71,219.00. The construction contract has been awarded to Burton Construction out of Spokane, WA. Project cost is \$493,997.07. Work will begin on the wells February 2010 with the recirculation system work commencing spring and summer 2010. This project includes rehab on the two production wells and the installation of a new egg incubation chiller and reuse system.

Meetings/Training/Travel

Dworshak

- 1/21 Larry Peltz, Complex Manager and Mark Drobish, Hatchery Manager attended a pre-Annual Operating Plan (AOP) meeting at Clearwater Fish Hatchery.
- 1/27 Larry Peltz, Complex Manager gave a presentation on DNFH to the National Association of Retired Federal Employees (NARFE) at their noon luncheon meeting.
- 1/27-29 Joan George, Admin Officer, traveled to Portland, OR to attend Data Mart training.

Kooskia

- 1/28: Steve Rogers, hatchery manager of Nez Perce Tribal Hatchery (NPTH), visited Kooskia and was given a tour to familiarize him with the hatchery.

Miscellaneous

- 1/27 January birthdays were celebrated following the monthly Safety meeting with the Production crew providing pie and ice cream for the staff.

Personnel Actions –

Safety/Wellness –

- 1/27 Staff viewed a short video on Radon gas and testing for your home. Handouts from the Department of Public Health were provided to staff interested in testing.

Information/Education (I/E)

Dworshak

Tours – 0

Visitor Register – 0 – Hatchery closed due to construction

Visitor Contacts – 0

Volunteers – 4 Hours –15

On-site:

- Specialist Wandag participated in monthly IdEEA board conference call.
- Participated in monthly regional Connecting People with Nature workgroup conference call.
- Assisted in planning for Idaho Sportsman's Show in Boise.
- Provided materials to Sean Connolly (Fisheries – Regional Office) to conduct classroom activity in Portland, OR kindergarten classes for 75 students.
- Provided prizes and support for Jody Brostrom (IFRO) to participate in the Salmon Ice Fishing Derby for 109 children.
- Coordinated plans for Hatchery in the Classroom program for 2010 steelhead season.

Off-site:

- Facilitated two meetings of Dworshak Extreme Explorers after school club, for 10 and 11 students, respectively.
- Delivered fish food and conducted feeding lesson at Lena Whitmore Elementary for 24 students.
- Set up Hatchery in the Classroom tank and chiller system at Colton School; discussed project with 18 students.

Kooskia

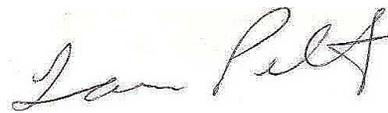
No visitors signed the guest book. No guided tours, but many visitors stopping to check the trap, see the big fish, and take a look around the hatchery grounds.

On-site:

- Provided materials to Marilyn Blair (IFHC) to conduct a classroom activity at Kamiah Elementary for 20 students.
- Coordinated plans for Hatchery in the Classroom program for 2010 steelhead season.

Off-site:

- Delivered fish food and conducted feeding lesson at Nezperce School for 12 students.
- Set up Hatchery in the Classroom tank and chiller system at Sts. Peter & Paul School.

A handwritten signature in black ink, appearing to read "Larry Peltz". The signature is written in a cursive, flowing style.

Larry Peltz

Complex Manager

cc: Kooskia NFH
Hagerman NFH
CFRU – Moscow
Dworshak Production (2)
LSRCP – Boise