



United States Department of the Interior

FISH AND WILDLIFE SERVICE
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MEMORANDUM

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

From: Complex Manager
Dworshak Fisheries Complex

Subject: **Monthly Activity Report – July, 2010**

Fish Management Culture

Dworshak

SPRING CHINOOK SALMON (SCS)

Brood Year 2009(BY09)

At the end of the month there were 1,120,256 BY09 SCS in a total of 10 A and B bank raceways (RW's) averaging 93 fish per pound (fpp) and 84 mm (3.3 inches) total length. Overall mortality was 0.1 percent and water temperature in the RW's averaged 45.6°F during the month.

FALL CHINOOK SALMON

Brood Year 2009

The Idaho Fishery Research Office (IFRO) is participating in an evaluation of the effect of transportation and summer spill in the Columbia River hydro system on smolt-to-adult return rates of Snake and Clearwater River fall Chinook salmon (FCS).

There were 35,000 FCS which received PIT tags and were transported to the Clearwater River at Big Canyon Creek. All the FCS marking and transport was done by BioMark staff. There were 332,000 BY09 FCS PIT tagged this spring and summer and all were off station July 9, 2010 (pers comm. Dr. William Connor, Idaho FRO).

COHO SALMON (COS)

Brood Year 2009

At the end of the month there were 323,700 COS on station averaging 68 fpp and 88 mm (3.5 inches) total length. Mortality was 0.04 percent and temperature averaged 45.6°F for the month. On July 13 there were 61,594 coho from BP 53 which were coded wire tagged and moved to BP 76. From July 15-21 there were 262,000 coho inventoried and

moved from BPs 53 and 51 into BPs 78-80-82 and 84. All inventories were done through the Nez Perce Tribe marking trailer.

SUMMER STEELHEAD (SST)

Brood Year 2010

Steelhead from Takes 5-7 and ½ of 8 (900,000 fish) from the nursery were moved outside to BPs in System I. The fish were pumped using a PR Aqua fish pump from nursery tanks into a manual marking trailer from the Columbia River Fishery Program Office (CRFPO).

At the end of the month there were 590,000 SST from Takes 8-10 in the nursery which averaged 133 fpp and 71 mm (2.8 inches) total length. Mortality for the month was 1.2 percent and water temperature averaged 53.9°F.

At the end of the month System I had 1,344,149 SST from Takes 3-8 which averaged 68 fpp and 88 mm (3.5 inches) total length. Mortality for the month was 0.18 percent and water temperature averaged 48.6°F. On July 22-28 SST from Takes 1-2 (450,000 fish) were moved from System I to III. Inventory numbers were recorded as the fish were pumped through a VAKI fish counter from PR Aqua.

At the end of the month System III had 585,076 SST from Takes 1-4 which averaged 29 fpp and 118 mm (4.6 inches) total length. Mortality for the month was 0.32 percent and water temperature averaged 45.6°F. **In 2009, steelhead mortality had reached the 350,000 mark by July 31st. In 2010 through the same time period, steelhead mortality is at 2,000.** The majority of the steelhead have been reared in System I on reservoir water; however, even the subset of fish that have been reared in System III on river water have not broken with *Infectious Hematopoietic Necrosis Virus* (IHNV) this summer.

RAINBOW TROUT (RBT)

Brood Year 2010

BY10 RBT were held at 41.6°F in circular tanks in the incubation room until July 23. The RBT were fed five days on and two days off during this time to slow their growth rate. On July 23, the RBT from the circular tanks were moved to BP59 and inventoried using the VAKI fish counter. At the end of the month there were 8,892 triploid RBT averaging 52 fpp and 92 mm (3.6 inches) total length. Mortality for the month was 0.1 percent. These RBT will be for Kids Fishing Day in 2011.

SUMMARY

Table 1. Total Production—Fish on Station (07/31/10).

SP	BY	Location	Number	Wt (lbs)	FPP	L in	L mm
SCS	09	A-B Bank RWs	1,120,256	12,088	93	3.3	84
COS	09	BPs 74-76-78-80-82	323,700	4,744	68.2	3.5	88
SST	10	Nursery	587,597	4,430	132.6	2.8	71
SST	10	System I	1,344,149	19,895	67.6	3.5	88
SST	10	System III	585,076	20,420	28.7	4.6	118
RBT	10	Incub. Circ Tanks	8,892	172	51.7	3.6	93
Total			3,969,670	61,749			

Kooskia

Kooskia Trap Operations BY10

The trap was closed throughout July.

Kooskia Brood Year 2009

Kooskia Stock BY09 SCS number 658,774 averaging 68.2 fpp at 3.66 inches long. Growth for the month was .50 inches. All Kooskia stock SCS are being reared in the outside BP's, currently on reuse with well water makeup. The reuse water temperature averaged 47°F during July. *Ichthyophthirius multifiliis* (ICH) continued to be problematic through the month. Six separate 12-hour 50ppm formalin drip treatments were administered July 3, 10, 15, 18, 24, and 29. Idaho Fish Health Center (IFHC) exams were conducted July 8, 14, 22, and 30 to monitor the ICH.

Fish marking and tagging began July 20 and finished July 27. A total of 50,016 fish were CWT tagged with agency only wire and no AD clip. 108,497 fish were CWT with AD clip. The remaining fish were all AD clipped only. Current fish inventory numbers were adjusted to reflect the tagging trailer inventory.

Maintenance

Dworshak

- Electrical projects: Troubleshoot ultra cold freezer in IFHC; repaired 480-volt receptacle on “B” bank; adjusted alarm points; connected feeder for portable pump panel at nursery clarifiers; made up power supply cord for new fish counter; repaired conduit and pulled in new circuit for underpass sump pump; troubleshoot Mech I air compressor; added circuit for air conditioning to room in Main Building that houses the hatchery server and turned temperature set point up to +20 degrees in Feed Bldg.
- Installation: new lock on Tribal access gate; new vacuum de-gas towers in “A” bank; rebuilt elbows to de-gas towers; installed vertical pipes from valves to elbows to de-gas towers which involved cut up and re-weld with extensions.
- Repaired toilets, broken sprinkler lines, cleaned buildings and restrooms in all hatchery buildings on a daily basis, shampooed carpets and washed windows.
- Replaced seals on Systems I, II & III stand pipes and replaced seals in “A” bank mud valves.

- Cut down trees and hauled brush to burn pile, grounds maintenance in hatchery housing.
- Checked main pumps, traveling water screens and cleaned trash rake daily in Main pump house.

Kooskia

- Installed new aerator at the biofilter.

ARRA/ Projects:

Floodwall and Weir Replacement project: Knight Construction (subcontractor) arrived July 19th. The project started with dewatering of the worksite. The old wall and sluiceway concrete were demolished and removed. The footing for the new floodwall was poured July 29th.

Egg recirculation system and well rehab:

Work continued on constructing the new reservoir tower. Work continued on the incubator stack area with application of the epoxy coatings and plumbing of the new header pipe and incubator valves. Electrical work also continued with installation of conduit to the new chiller pad area. The new chiller also arrived and is being stored onsite until installation.

Meetings/Training/Travel

Dworshak

- 7/6 Mark Drobish visited Dubois State Fish Hatchery in Dubois, Wyoming. This facility utilizes circular tanks with serial reuse and low head oxygen supplementation. Circular tanks with partial serial reuse are being considered in the future for system I to extend the time frame for rearing steelhead on reservoir water to reduce the chances of parasite and IHNV exposure and infection.
- 7/8 Larry Peltz, Complex Manager, attended a Tribal Access Meeting.
- 7/21 Staff from the IFHC, Nez Perce Tribal Fish Hatchery, KNFH, DNFH & Hagerman NFH met to discuss the role of the IFHC, existing work products as well as better ways to provide services in the future.
- 7/28 Conducted a tour for the new U.S. Army Corps of Engineers (COE) District Commander, LTC Dave Caldwell and several other COE representatives.
- 7/29 Participated in conference call with CH2MHill about NPDES upgrade.

Kooskia

Miscellaneous

- 7/1/10 Retirement party celebrated in the Conference Room with a potluck. Gifts and speeches were given to Kathy Clemens, Project Leader for Idaho Fish Health Center retiring after 38+ years with the U.S. Fish &

Off-site:

- Met with Scott Eckberg of Nez Perce NHP regarding Memorandum of Understanding (MOU) for Mill Pond Trail.

A handwritten signature in cursive script, appearing to read "Larry Peltz", is written in dark ink on a light-colored background.

Larry Peltz

Complex Manager

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